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für

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4842

II crasop.

148 (1923)

## Vorwort

Vom Jahrgang 1916 an ist der fundamentale Meridian, auf den alle Angaben des Jahrbuchs bezogen sind, der Meridian von Greenwich. Die Zeitangaben sind in Mittlerer Zeit Greenwich, die Kulminations-Phänomene für die Kulmination im Meridian von Greenwich gegeben.

Die Grundlagen des Berliner Astronomischen Jahrbuchs bilden:

Für die Sonne und die großen Planeten:

Die Tafeln von Newcomb und (für Jupiter und Saturn) von Hill, enthalten in:

*Astronomical Papers of the American Ephemeris,*

Vol. VI, Part I—IV: *Tables of the four inner planets,*

Vol. VII, Part I—IV: *Tables of Jupiter, Saturn,*

*Uranus, Neptune.*

Als Sonnenhalbmesser in der mittleren Entfernung ist nach Auwers angenommen:  $R = 15' 59''.63$ .

Für den Mond:

Tables of the motion of the moon by Ernest W. Brown.

Der geozentrische Mondhalbmesser  $r_{\odot}$  ist aus der Äquatorial-Horizontalparallaxe  $p_{\odot}$  gerechnet nach der Formel

$$r_{\odot} = 0.272506 p_{\odot} + 1''.50$$

Als Neigung des Mondäquators gegen die Ekliptik ist nach F. Hayn (A. N. 199, 263) angenommen:  $J = 1^{\circ} 32' 20''$ .

Für die Fixsterne:

Neuer Fundamentalkatalog des Berliner Astronomischen Jahrbuchs nach den Grundlagen von A. Auwers, für die Epochen 1875 und 1900 bearbeitet von Dr. J. Peters (Veröffentlichung Nr. 33 des Königlich Astronomischen Rechen-Instituts).

Die Sternspektre sind der »Revised Harvard Photometry (Harvard Annals, vol. 50)« entnommen.

Als Werte der fundamentalen Reduktionsgrößen sind angenommen:

Die Präzessions-Größen nach S. Newcomb (vgl. H. Andoyer, Bull. Astr. 28, 67)	
Die Nutations-Konstante . . . . .	9".21
Die Nutations-Größen nach S. Newcomb (Bull. Astr. 15, 241)	
Die Aberrations-Konstante . . . . .	20".47
Die Sonnen-Parallaxe . . . . .	8".80
Die Abplattung der Erde . . . . .	1:297.0

Für die Satelliten:

Die Angaben über die 4 älteren Jupiterstrabanten beruhen auf den neuen Tafeln von R. A. Sampson (*Tables of the four great Satellites of Jupiter*. London 1910), die Angaben über die 8 älteren Saturnssatelliten auf den von H. Struve ermittelten Werten (Näheres s. Erläuterungen).

In allen Ephemeriden der Sonne, der Planeten und der Fixsterne sind die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

Der Inhalt des Jahrbuchs hat gegen das Vorjahr keine Änderungen erfahren. Ein Teil der Angaben wurde in Wiederaufnahme des Austauschverkehrs seitens des Nautical Almanac, Washington, zur Verfügung gestellt. Bezüglich der Zahlengrundlagen sei auf die im Berliner Jahrbuch für 1916 gegebene Darstellung der »Grundbegriffe der Sphärischen Astronomie« hingewiesen.

Fritz Cohn.



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# Zeit- und Festrechnung 1923

Das Jahr 1923 entspricht dem  
 Jahr 6636 der Julianischen Periode und dem  
 Jahr 7431 — 7432 der Byzantinischen Ära

## Gregorianischer Kalender

Septuagesima	28. Jan.
Aschermittwoch	14. Febr.
I. Quatember	21. Febr.
Ostersonntag	1. April
Himmelfahrt	10. Mai
Pfingstsonntag	20. Mai
II. Quatember	23. Mai
III. Quatember	19. Sept.
I. Advent	2. Dez.
IV. Quatember	19. Dez.

## Julianischer Kalender

	Tag im Julia- nischen Kalender	Tag im Gregoria- nischen Kalender
Septuagesima	22. Jan.	4. Febr.
Aschermittwoch	8. Febr.	21. Febr.
I. Quatember	15. Febr.	28. Febr.
Ostersonntag	26. März	8. April
Himmelfahrt	4. Mai	17. Mai
Pfingstsonntag	14. Mai	27. Mai
II. Quatember	17. Mai	30. Mai
III. Quatember	20. Sept.	3. Okt.
I. Advent	3. Dez.	16. Dez.
IV. Quatember	20. Dez.	33. Dez.

## Kalender der Mohammedaner

1341 (Schaltjahr)

Dschemâdi-el-accher I . . . . .	1923	Jan. 19
Redscheb I . . . . .	»	Febr. 17
Schabân I . . . . .	»	März 19
Ramadân I . . . . .	»	April 17
Schewwâl I . . . . .	»	Mai 17
Dsú 'l-kade I . . . . .	»	Juni 15
Dsú 'l-hedsche I . . . . .	»	Juli 15

1342 (Gemeinjahr)

Moharrem I . . . . .	1923	Aug. 14
Safar I . . . . .	»	Sept. 13
Rebi-el-awwel I . . . . .	»	Okt. 12
Rebi-el-accher I . . . . .	»	Nov. 11
Dschemâdi-el-awwel I . . . . .	»	Dez. 10

## Kalender der Juden

5683 (Abgekürztes Gemeinjahr)

Schebat	1	. . . . .	1923	Jan.	18
Adar	1	. . . . .	»	Febr.	17
	13	Fasten - Esther . . . . .	»	März	1
	14	Purim . . . . .	»		2
	15	Schuschan - Purim . . . . .	»		3
Nisan	1	. . . . .	»		18
	15	Passah - Anfang* . . . . .	»	April	1
	16	Zweites Fest* . . . . .	»		2
	21	Siebentes Fest* . . . . .	»		7
	22	Achtes Fest* . . . . .	»		8
Ijar	1	. . . . .	»		17
	18	Lag - B'omer . . . . .	»	Mai	4
Sivan	1	. . . . .	»		16
	6	Wocheufest* . . . . .	»		21
	7	Zweites Fest* . . . . .	»		22
Thamuz	1	. . . . .	»	Juni	15
	17	Fasten. Tempeleroberung . . . . .	»	Juli	1
Ab	1	. . . . .	»		14
	9	Fasten. Tempelverbrennung . . . . .	»		22
Elul	1	. . . . .	»	Aug.	13

5684 (Regelmäßiges Schaltjahr)

Tischri	1	Neujahrsfest* . . . . .	1923	Sept.	11
	2	Zweites Fest* . . . . .	»		12
	3	Fasten - Gedaljah . . . . .	»		13
	10	Versöhnungsfest* . . . . .	»		20
	15	Laubhüttenfest* . . . . .	»		25
	16	Zweites Fest* . . . . .	»		26
	21	Palmenfest . . . . .	»	Okt.	1
	22	Versammlung oder Laubhüttenende* . . . . .	»		2
	23	Gesetzesfreude* . . . . .	»		3
Marcheschwan	1	. . . . .	»		11
Kislev	1	. . . . .	»	Nov.	9
	25	Tempelweihe . . . . .	»	Dez.	3
Tebet	1	. . . . .	»		9
	10	Fasten. Belagerung Jerusalems . . . . .	»		18

Die mit \* bezeichneten Festtage werden streng gefeiert

## Astronomische Zeichen und Abkürzungen

Bezeichnung der Wochentage	Aspekten
☉ Sonntag	♋ Konjunktion
☾ Montag	☐ Quadratur
♂ Dienstag	♄ Opposition
♀ Mittwoch	Mondphasen
♃ Donnerstag	● Neumond
♀ Freitag	◐ Erstes Viertel
♄ Sonnabend	◑ Vollmond
	◓ Letztes Viertel

Ω Aufsteigender }  
 ☿ Niedersteigender } Knoten

## Zeichen

des Tierkreises und der Himmelskörper

♈ Widder . . .	0 Grad	☉ Sonne
♉ Stier . . . . .	30 »	☾ Mond
♊ Zwillinge . .	60 »	☿ Merkur
♋ Krebs . . . . .	90 »	♀ Venus
♌ Löwe . . . . .	120 »	♁ Erde
♍ Jungfrau . .	150 »	♂ Mars
♎ Wage . . . . .	180 »	♃ Jupiter
♏ Skorpion . .	210 »	♄ Saturn
♐ Schütze . . .	240 »	♅ Uranus
♑ Steinbock . .	270 »	♆ Neptun
♒ Wassermann	300 »	
♓ Fische . . . .	330 »	

**Sonne, Mond, Große Planeten**

**1923**



Mittlere Zeit Greenwich		Woche tag	Zeitgleichung Mittlere Zeit minus Wahre Zeit		Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer St.-Zt.	Halb- messer
1923								
Jan.	0.0	St	+ 2 <sup>m</sup> 51.88	28.64	18 <sup>h</sup> 39 <sup>m</sup> 22.67	−23° 8' 16.7	70.98	16 15.99
	1.0	Mo	3 20.52	28.33	18 43 47.86	23 3 53.3	70.94	16 16.00
	2.0	Di	3 48.85	27.99	18 48 12.75	22 59 2.3	70.89	16 16.00
	3.0	Mi	4 16.84	27.64	18 52 37.30	22 53 43.8	70.84	16 16.00
	4.0	Do	4 44.48	27.25	18 57 1.49	22 47 57.9	70.79	16 16.00
	5.0	Fr	5 11.73	26.84	19 1 25.30	22 41 44.8	70.74	16 15.98
	6.0	Sa	+ 5 38.57	26.41	19 5 48.70	−22 35 4.7	70.68	16 15.96
	7.0	St	6 4.98	25.96	19 10 11.67	22 27 57.8	70.62	16 15.94
	8.0	Mo	6 30.94	25.47	19 14 34.18	22 20 24.3	70.55	16 15.91
	9.0	Di	6 56.41	24.97	19 18 56.21	22 12 24.4	70.48	16 15.87
	10.0	Mi	7 21.38	24.43	19 23 17.73	22 3 58.3	70.41	16 15.83
	11.0	Do	7 45.81	23.88	19 27 38.72	21 55 6.4	70.33	16 15.78
	12.0	Fr	+ 8 9.69	23.30	19 31 59.16	−21 45 48.7	70.25	16 15.73
	13.0	Sa	8 32.99	22.69	19 36 19.02	21 36 5.7	70.17	16 15.67
	14.0	St	8 55.68	22.07	19 40 38.27	21 25 57.7	70.08	16 15.61
	15.0	Mo	9 17.75	21.41	19 44 56.89	21 15 24.8	69.99	16 15.55
	16.0	Di	9 39.16	20.73	19 49 14.85	21 4 27.4	69.90	16 15.48
	17.0	Mi	9 59.89	20.03	19 53 32.14	20 53 5.9	69.81	16 15.41
	18.0	Do	+10 19.92	19.31	19 57 48.73	−20 41 20.5	69.71	16 15.34
	19.0	Fr	10 39.23	18.58	20 2 4.60	20 29 11.5	69.61	16 15.26
	20.0	Sa	10 57.81	17.82	20 6 19.73	20 16 39.4	69.51	16 15.17
	21.0	St	11 15.63	17.05	20 10 34.11	20 3 44.5	69.41	16 15.09
	22.0	Mo	11 32.68	16.27	20 14 47.71	19 50 27.0	69.31	16 15.00
	23.0	Di	11 48.95	15.48	20 19 0.54	19 36 47.5	69.20	16 14.91
	24.0	Mi	+12 4.43	14.67	20 23 12.57	−19 22 46.2	69.09	16 14.81
	25.0	Do	12 19.10	13.85	20 27 23.80	19 8 23.5	68.98	16 14.70
	26.0	Fr	12 32.95	13.04	20 31 34.21	18 53 39.8	68.87	16 14.60
	27.0	Sa	12 45.99	12.21	20 35 43.80	18 38 35.4	68.76	16 14.49
	28.0	St	12 58.20	11.39	20 39 52.57	18 23 10.8	68.65	16 14.37
	29.0	Mo	13 9.59	10.56	20 44 0.51	18 7 26.3	68.54	16 14.24
	30.0	Di	+13 20.15	9.73	20 48 7.62	−17 51 22.4	68.42	16 14.12
	31.0	Mi	13 29.88	8.90	20 52 13.91	17 34 59.3	68.31	16 13.99
Febr.	1.0	Do	13 38.78	8.08	20 56 19.37	17 18 17.6	68.19	16 13.85
	2.0	Fr	13 46.86	7.27	21 0 24.00	17 1 17.5	68.08	16 13.70
	3.0	Sa	13 54.13	6.46	21 4 27.82	16 43 59.5	67.96	16 13.55
	4.0	St	14 0.59	5.65	21 8 30.84	16 26 23.9	67.85	16 13.39
	5.0	Mo	+14 6.24	4.86	21 12 33.05	−16 8 31.2	67.73	16 13.23
	6.0	Di	14 11.10	4.07	21 16 34.46	15 50 21.7	67.62	16 13.06
	7.0	Mi	14 15.17	3.29	21 20 35.08	15 31 55.9	67.51	16 12.89
	8.0	Do	14 18.46	2.51	21 24 34.93	15 13 14.2	67.39	16 12.72
	9.0	Fr	14 20.97	1.74	21 28 33.99	14 54 16.9	67.28	16 12.54
	10.0	Sa	14 22.71		21 32 32.28	14 35 4.6	67.17	16 12.35

Tag	Julian. Tag	0 <sup>h</sup> mittlere Zeit Greenwich				log R	Unter-	Auf-
		Sternzeit	Mittleres Äquinoktium 1923.0		gang		gang	
			Länge	Breite		in +50°	Breite	
						in °	in Länge	
1923	2423							
Jan. 0	420	18 <sup>h</sup> 36 <sup>m</sup> 30.79	279 3 6.6	61 8.2	-0.27	9.992 6618	4 <sup>h</sup> 7 <sup>m</sup> 19 59	
1	421	18 40 27.34	280 4 14.8	61 8.1	-0.29	9.992 6562	4 8 19 59	
2	422	18 44 23.90	281 5 22.9	61 8.1	-0.28	9.992 6534	4 9 19 59	
3	423	18 48 20.46	282 6 31.0	61 8.2	-0.24	9.992 6535	4 10 19 58	
4	424	18 52 17.02	283 7 39.2	61 8.2	-0.17	9.992 6565	4 11 19 58	
5	425	18 56 13.57	284 8 47.4	61 8.3	-0.07	9.992 6623	4 12 19 58	
6	426	19 0 10.13	285 9 55.7	61 8.3	+0.05	9.992 6710	4 13 19 58	
7	427	19 4 6.69	286 11 4.0	61 8.4	+0.18	9.992 6824	4 15 19 57	
8	428	19 8 3.24	287 12 12.4	61 8.6	+0.32	9.992 6964	4 16 19 57	
9	429	19 11 59.80	288 13 21.0	61 8.5	+0.45	9.992 7128	4 17 19 57	
10	430	19 15 56.36	289 14 29.5	61 8.6	+0.57	9.992 7316	4 18 19 56	
11	431	19 19 52.91	290 15 38.1	61 8.6	+0.68	9.992 7526	4 20 19 56	
12	432	19 23 49.47	291 16 46.7	61 8.5	+0.77	9.992 7756	4 21 19 55	
13	433	19 27 46.03	292 17 55.2	61 8.4	+0.82	9.992 8005	4 22 19 54	
14	434	19 31 42.58	293 19 3.6	61 8.0	+0.84	9.992 8271	4 24 19 54	
15	435	19 35 39.14	294 20 11.6	61 7.7	+0.83	9.992 8554	4 25 19 53	
16	436	19 39 35.70	295 21 19.3	61 7.2	+0.79	9.992 8854	4 27 19 52	
17	437	19 43 32.25	296 22 26.5	61 6.6	+0.72	9.992 9169	4 28 19 51	
18	438	19 47 28.81	297 23 33.1	61 5.9	+0.63	9.992 9500	4 30 19 50	
19	439	19 51 25.36	298 24 39.0	61 5.2	+0.52	9.992 9847	4 31 19 49	
20	440	19 55 21.92	299 25 44.2	61 4.4	+0.40	9.993 0211	4 33 19 48	
21	441	19 59 18.48	300 26 48.6	61 3.5	+0.27	9.993 0592	4 34 19 47	
22	442	20 3 15.03	301 27 52.1	61 2.5	+0.15	9.993 0990	4 36 19 46	
23	443	20 7 11.59	302 28 54.6	61 1.5	+0.03	9.993 1408	4 38 19 45	
24	444	20 11 8.14	303 29 56.1	61 0.4	-0.08	9.993 1844	4 39 19 44	
25	445	20 15 4.70	304 30 56.5	60 59.4	-0.17	9.993 2301	4 41 19 43	
26	446	20 19 1.26	305 31 55.9	60 58.3	-0.25	9.993 2779	4 43 19 42	
27	447	20 22 57.81	306 32 54.2	60 57.0	-0.29	9.993 3279	4 44 19 41	
28	448	20 26 54.37	307 33 51.2	60 55.9	-0.31	9.993 3801	4 46 19 39	
29	449	20 30 50.92	308 34 47.1	60 54.7	-0.30	9.993 4347	4 48 19 38	
30	450	20 34 47.48	309 35 41.8	60 53.5	-0.26	9.993 4918	4 49 19 37	
31	451	20 38 44.03	310 36 35.3	60 52.5	-0.20	9.993 5514	4 51 19 35	
Fehr. 1	452	20 42 40.59	311 37 27.8	60 51.5	-0.11	9.993 6136	4 53 19 34	
2	453	20 46 37.14	312 38 19.3	60 50.3	0.00	9.993 6784	4 54 19 32	
3	454	20 50 33.70	313 39 9.6	60 49.3	+0.13	9.993 7457	4 56 19 31	
4	455	20 54 30.25	314 39 58.9	60 48.4	+0.27	9.993 8156	4 58 19 29	
5	456	20 58 26.80	315 40 47.3	60 47.5	+0.41	9.993 8879	4 59 19 28	
6	457	21 2 23.36	316 41 34.8	60 46.5	+0.53	9.993 9624	5 1 19 26	
7	458	21 6 19.91	317 42 21.3	60 45.5	+0.64	9.994 0390	5 3 19 25	
8	459	21 10 16.47	318 43 6.8	60 44.7	+0.74	9.994 1175	5 5 19 23	
9	460	21 14 13.02	319 43 51.5	60 43.6	+0.80	9.994 1978	5 6 19 21	
10	461	21 18 9.58	320 44 35.1		+0.82	9.994 2797	5 8 19 20	

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durch- gangs- Dauer St. - Zt.	Halb- messer	
		Mittlere Zeit <i>minus</i> Wahre Zeit								
1923										
Febr.	10.0	Sa	+14 <sup>m</sup> 22.71	0.98	21 <sup>h</sup> 32 <sup>m</sup> 32.28	3 <sup>s</sup> 57.53	-14 35 4.6	19 27.0	67.17	16 12.35
	11.0	St	14 23.69	0.21	21 36 29.81	3 56.77	14 15 37.6	19 41.3	67.06	16 12.16
	12.0	Mo	14 23.90	0.54	21 40 26.58	3 56.02	13 55 56.3	19 55.1	66.95	16 11.98
	13.0	Di	14 23.36	1.29	21 44 22.60	3 55.27	13 36 1.2	20 8.5	66.84	16 11.79
	14.0	Mi	14 22.07	2.02	21 48 17.87	3 54.52	13 15 52.7	20 21.4	66.73	16 11.59
	15.0	Do	14 20.05	2.76	21 52 12.39	3 53.79	12 55 31.3	20 34.0	66.63	16 11.39
	16.0	Fr	+14 17.29	3.49	21 56 6.18	3 53.07	-12 34 57.3	20 46.1	66.52	16 11.20
	17.0	Sa	14 13.80	4.20	21 59 59.25	3 52.35	12 14 11.2	20 57.8	66.42	16 11.00
	18.0	St	14 9.60	4.91	22 3 51.60	3 51.64	11 53 13.4	21 9.0	66.32	16 10.79
	19.0	Mo	14 4.69	5.61	22 7 43.24	3 50.95	11 32 4.4	21 19.8	66.22	16 10.59
	20.0	Di	13 59.08	6.28	22 11 34.19	3 50.27	11 10 44.2	21 30.3	66.12	16 10.38
	21.0	Mi	13 52.80	6.96	22 15 24.46	3 49.60	10 49 14.3	21 40.2	66.03	16 10.17
	22.0	Do	+13 45.84	7.61	22 19 14.06	3 48.94	-10 27 34.1	21 49.8	65.93	16 9.95
	23.0	Fr	13 38.23	8.26	22 23 3.00	3 48.30	10 5 44.3	21 59.0	65.84	16 9.74
	24.0	Sa	13 29.97	8.88	22 26 51.30	3 47.67	9 43 45.3	22 7.8	65.75	16 9.52
	25.0	St	13 21.09	9.49	22 30 38.97	3 47.06	9 21 37.5	22 16.0	65.66	16 9.30
	26.0	Mo	13 11.60	10.08	22 34 26.03	3 46.47	8 59 21.5	22 24.1	65.58	16 9.08
	27.0	Di	13 1.52	10.65	22 38 12.50	3 45.90	8 36 57.4	22 31.6	65.50	16 8.85
	28.0	Mi	+12 50.87	11.21	22 41 58.40	3 45.35	- 8 14 25.8	22 38.7	65.42	16 8.61
März	1.0	Do	12 39.66	11.73	22 45 43.75	3 44.81	7 51 47.1	22 45.5	65.34	16 8.38
	2.0	Fr	12 27.93	12.24	22 49 28.56	3 44.31	7 29 1.6	22 52.0	65.26	16 8.14
	3.0	Sa	12 15.69	12.73	22 53 12.87	3 43.83	7 6 9.6	22 58.0	65.19	16 7.90
	4.0	St	12 2.96	13.19	22 56 56.70	3 43.37	6 43 11.1	23 3.1	65.12	16 7.65
	5.0	Mo	11 49.77	13.62	23 0 40.07	3 42.93	6 20 8.0	23 9.0	65.05	16 7.40
	6.0	Di	+11 36.15	14.03	23 4 23.00	3 42.51	- 5 56 59.0	23 13.9	64.99	16 7.14
	7.0	Mi	11 22.12	14.43	23 8 5.51	3 42.13	5 33 45.1	23 18.4	64.93	16 6.89
	8.0	Do	11 7.69	14.79	23 11 47.64	3 41.76	5 10 26.7	23 22.6	64.87	16 6.63
	9.0	Fr	10 52.90	15.15	23 15 29.40	3 41.40	4 47 4.1	23 26.5	64.81	16 6.36
	10.0	Sa	10 37.75	15.48	23 19 10.80	3 41.08	4 23 37.6	23 29.8	64.76	16 6.10
	11.0	St	10 22.27	15.79	23 22 51.88	3 40.76	4 0 7.8	23 32.9	64.71	16 5.84
	12.0	Mo	+10 6.48	16.09	23 26 32.64	3 40.46	- 3 36 34.9	23 35.5	64.66	16 5.57
	13.0	Di	9 50.39	16.36	23 30 13.10	3 40.19	3 12 59.4	23 37.7	64.62	16 5.30
	14.0	Mi	9 34.03	16.62	23 33 53.29	3 39.93	2 49 21.7	23 39.6	64.58	16 5.04
	15.0	Do	9 17.41	16.87	23 37 33.22	3 39.68	2 25 42.1	23 41.1	64.54	16 4.77
	16.0	Fr	9 0.54	17.09	23 41 12.90	3 39.46	2 2 1.0	23 42.2	64.51	16 4.50
	17.0	Sa	8 43.45	17.30	23 44 52.36	3 39.25	1 38 18.8	23 42.9	64.48	16 4.23
	18.0	St	+ 8 26.15	17.50	23 48 31.61	3 39.06	- 1 14 35.9	23 43.2	64.45	16 3.96
	19.0	Mo	8 8.65	17.66	23 52 10.67	3 38.89	0 50 52.7	23 43.2	64.42	16 3.69
	20.0	Di	7 50.99	17.83	23 55 49.56	3 38.73	0 27 9.5	23 42.8	64.40	16 3.42
	21.0	Mi	7 33.16	17.96	23 59 28.29	3 38.59	0 3 26.7	23 41.9	64.38	16 3.15
	22.0	Do	7 15.20	18.08	0 3 6.88	3 38.47	+ 0 20 15.2	23 40.8	64.36	16 2.89
	23.0	Fr	6 57.12		0 6 45.35		0 43 56.0		64.34	16 2.62



Tag	Julian. Tag	0 <sup>h</sup> mittlere Zeit Greenwich				log R	Unter- gang in +50° 0 <sup>h</sup>	Auf- gang Breite Länge
		Sternzeit	Mittleres Äquinoktium 1923.0					
			Länge	Breite				
1923	2423							
Febr. 10	461	21 <sup>h</sup> 18 <sup>m</sup> 9.58	320° 44' 35.1	60° 42.5	+0.82	9.994 2797	834 5 <sup>h</sup> 8 <sup>m</sup> 19 <sup>h</sup> 20 <sup>m</sup>	
11	462	21 22 6.13	321 45 17.6	60 41.4	+0.81	9.994 3631	846 5 10 19 18	
12	463	21 26 2.68	322 45 59.0	60 40.2	+0.78	9.994 4477	858 5 12 19 16	
13	464	21 29 59.24	323 46 39.2	60 38.9	+0.72	9.994 5335	869 5 13 19 14	
14	465	21 33 55.79	324 47 18.1	60 37.5	+0.64	9.994 6204	880 5 15 19 13	
15	466	21 37 52.34	325 47 55.6	60 36.0	+0.53	9.994 7084	890 5 17 19 11	
16	467	21 41 48.90	326 48 31.6	60 34.5	+0.40	9.994 7974	900 5 19 19 9	
17	468	21 45 45.45	327 49 6.1	60 32.9	+0.27	9.994 8874	910 5 20 19 7	
18	469	21 49 42.00	328 49 39.0	60 31.1	+0.14	9.994 9784	920 5 22 19 5	
19	470	21 53 38.56	329 50 10.1	60 29.4	+0.01	9.995 0704	931 5 24 19 3	
20	471	21 57 35.11	330 50 39.5	60 27.7	-0.10	9.995 1635	942 5 25 19 1	
21	472	22 1 31.66	331 51 7.2	60 25.8	-0.20	9.995 2577	953 5 27 19 0	
22	473	22 5 28.22	332 51 33.0	60 23.9	-0.29	9.995 3530	965 5 29 18 58	
23	474	22 9 24.77	333 51 56.9	60 21.9	-0.35	9.995 4495	978 5 30 18 56	
24	475	22 13 21.32	334 52 18.8	60 20.0	-0.38	9.995 5473	992 5 32 18 54	
25	476	22 17 17.87	335 52 38.8	60 18.0	-0.38	9.995 6465	1006 5 34 18 52	
26	477	22 21 14.43	336 52 56.8	60 16.0	-0.35	9.995 7471	1021 5 36 18 50	
27	478	22 25 10.98	337 53 12.8	60 14.0	-0.29	9.995 8492	1038 5 37 18 48	
28	479	22 29 7.53	338 53 26.8	60 12.0	-0.21	9.995 9530	1054 5 39 18 46	
März 1	480	22 33 4.08	339 53 38.8	60 10.2	-0.10	9.996 0584	1072 5 41 18 44	
2	481	22 37 0.64	340 53 49.0	60 8.3	+0.03	9.996 1656	1090 5 42 18 42	
3	482	22 40 57.19	341 53 57.3	60 6.5	+0.16	9.996 2746	1108 5 44 18 40	
4	483	22 44 53.74	342 54 3.8	60 4.9	+0.30	9.996 3854	1124 5 45 18 37	
5	484	22 48 50.29	343 54 8.7	60 3.1	+0.43	9.996 4978	1140 5 47 18 35	
6	485	22 52 46.84	344 54 11.8	60 1.5	+0.55	9.996 6118	1154 5 49 18 33	
7	486	22 56 43.40	345 54 13.3	59 59.9	+0.64	9.996 7272	1167 5 50 18 31	
8	487	23 0 39.95	346 54 13.2	59 58.3	+0.71	9.996 8439	1177 5 52 18 29	
9	488	23 4 36.50	347 54 11.5	59 56.8	+0.75	9.996 9616	1187 5 54 18 27	
10	489	23 8 33.05	348 54 8.3	59 55.0	+0.76	9.997 0803	1193 5 55 18 25	
11	490	23 12 29.60	349 54 3.3	59 53.4	+0.73	9.997 1996	1199 5 57 18 23	
12	491	23 16 26.16	350 53 56.7	59 51.7	+0.66	9.997 3195	1203 5 58 18 20	
13	492	23 20 22.71	351 53 48.4	59 49.9	+0.58	9.997 4398	1206 6 0 18 18	
14	493	23 24 19.26	352 53 38.3	59 48.2	+0.47	9.997 5604	1209 6 2 18 16	
15	494	23 28 15.81	353 53 26.5	59 46.3	+0.35	9.997 6813	1209 6 3 18 14	
16	495	23 32 12.36	354 53 12.8	59 44.3	+0.23	9.997 8022	1210 6 5 18 12	
17	496	23 36 8.92	355 52 57.1	59 42.3	+0.10	9.997 9232	1210 6 7 18 10	
18	497	23 40 5.47	356 52 39.4	59 40.3	-0.04	9.998 0442	1211 6 8 18 7	
19	498	23 44 2.02	357 52 19.7	59 38.2	-0.17	9.998 1653	1210 6 10 18 5	
20	499	23 47 58.57	358 51 57.9	59 36.0	-0.28	9.998 2863	1210 6 11 18 3	
21	500	23 51 55.12	359 51 33.9	59 33.8	-0.37	9.998 4073	1210 6 13 18 1	
22	501	23 55 51.67	0 51 7.7	59 31.5	-0.44	9.998 5283	1211 6 15 17 59	
23	502	23 59 48.22	1 50 39.2		-0.48	9.998 6494	1211 6 16 17 57	

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit minus Wahre Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer St. - Zt.	Halb- messer
1923						
März 23.0	Fr	+6 <sup>m</sup> 57.12 18.18	0 <sup>h</sup> 6 <sup>m</sup> 45.35 3 <sup>m</sup> 38.37	+ 0 43 56.0 23 39.3	64.34	16 2.62
24.0	Sa	6 38.94 18.26	0 10 23.72 3 38.28	1 7 35.3 23 37.3	64.33	16 2.35
25.0	St	6 20.68 18.33	0 14 2.00 3 38.23	1 31 12.6 23 35.0	64.32	16 2.08
26.0	Mo	6 2.35 18.37	0 17 40.23 3 38.18	1 54 47.6 23 32.4	64.32	16 1.81
27.0	Di	5 43.98 18.40	0 21 18.41 3 38.15	2 18 20.0 23 29.5	64.32	16 1.54
28.0	Mi	5 25.58 18.40	0 24 56.56 3 38.16	2 41 49.5 23 26.1	64.32	16 1.27
29.0	Do	+5 7.18 18.38	0 28 34.72 3 38.17	+ 3 5 15.6 23 22.4	64.32	16 1.00
30.0	Fr	4 48.80 18.33	0 32 12.89 3 38.22	3 28 38.0 23 18.4	64.33	16 0.73
31.0	Sa	4 30.47 18.26	0 35 51.11 3 38.29	3 51 56.4 23 14.1	64.34	16 0.45
April 1.0	St	4 12.21 18.17	0 39 29.40 3 38.38	4 15 10.5 23 9.4	64.35	16 0.17
2.0	Mo	3 54.04 18.05	0 43 7.78 3 38.50	4 38 19.9 23 4.4	64.36	15 59.90
3.0	Di	3 35.99 17.91	0 46 46.28 3 38.65	5 1 24.3 22 59.2	64.38	15 59.62
4.0	Mi	+3 18.08 17.74	0 50 24.93 3 38.80	+ 5 24 23.5 22 53.5	64.40	15 59.34
5.0	Do	3 0.34 17.56	0 54 3.73 3 39.00	5 47 17.0 22 47.5	64.42	15 59.06
6.0	Fr	2 42.78 17.35	0 57 42.73 3 39.20	6 10 4.5 22 41.3	64.45	15 58.78
7.0	Sa	2 25.43 17.13	1 1 21.93 3 39.42	6 32 45.8 22 34.6	64.48	15 58.50
8.0	St	2 8.30 16.89	1 5 1.35 3 39.67	6 55 20.4 22 27.6	64.51	15 58.22
9.0	Mo	1 51.41 16.62	1 8 41.02 3 39.93	7 17 48.0 22 20.3	64.54	15 57.93
10.0	Di	+1 34.79 16.36	1 12 20.95 3 40.20	+ 7 40 8.3 22 12.7	64.58	15 57.65
11.0	Mi	1 18.43 16.06	1 16 1.15 3 40.49	8 2 21.0 22 4.6	64.62	15 57.38
12.0	Do	1 2.37 15.76	1 19 41.64 3 40.79	8 24 25.6 21 56.2	64.67	15 57.10
13.0	Fr	0 46.61 15.44	1 23 22.43 3 41.11	8 46 21.8 21 47.6	64.71	15 56.83
14.0	Sa	0 31.17 15.11	1 27 3.54 3 41.44	9 8 9.4 21 38.5	64.76	15 56.56
15.0	St	0 16.06 14.77	1 30 44.98 3 41.78	9 29 47.9 21 29.0	64.81	15 56.29
16.0	Mo	+0 1.29 14.41	1 34 26.76 3 42.14	+ 9 51 16.9 21 19.3	64.86	15 56.02
17.0	Di	-0 13.12 14.05	1 38 8.90 3 42.51	10 12 36.2 21 9.2	64.91	15 55.76
18.0	Mi	0 27.17 13.67	1 41 51.41 3 42.89	10 33 45.4 20 58.7	64.97	15 55.49
19.0	Do	0 40.84 13.27	1 45 34.30 3 43.27	10 54 44.1 20 47.9	65.03	15 55.23
20.0	Fr	0 54.11 12.88	1 49 17.57 3 43.68	11 15 32.0 20 36.8	65.09	15 54.98
21.0	Sa	1 6.99 12.46	1 53 1.25 3 44.09	11 36 8.8 20 25.2	65.15	15 54.72
22.0	St	-1 19.45 12.05	1 56 45.34 3 44.51	+11 56 34.0 20 13.4	65.21	15 54.47
23.0	Mo	1 31.50 11.61	2 0 29.85 3 44.94	12 16 47.4 20 1.3	65.27	15 54.22
24.0	Di	1 43.11 11.16	2 4 14.79 3 45.39	12 36 48.7 19 48.7	65.34	15 53.97
25.0	Mi	1 54.27 10.71	2 8 0.18 3 45.85	12 56 37.4 19 36.0	65.41	15 53.72
26.0	Do	2 4.98 10.24	2 11 46.03 3 46.31	13 16 13.4 19 22.7	65.48	15 53.47
27.0	Fr	2 15.22 9.76	2 15 32.34 3 46.79	13 35 36.1 19 9.3	65.55	15 53.23
28.0	Sa	-2 24.98 9.27	2 19 19.13 3 47.28	+13 54 45.4 18 55.5	65.62	15 52.99
29.0	St	2 34.25 8.76	2 23 6.41 3 47.80	14 13 40.9 18 41.4	65.70	15 52.75
30.0	Mo	2 43.01 8.24	2 26 54.21 3 48.31	14 32 22.3 18 27.1	65.77	15 52.51
Mai 1.0	Di	2 51.25 7.70	2 30 42.52 3 48.86	14 50 49.4 18 12.3	65.85	15 52.27
2.0	Mi	2 58.95 7.15	2 34 31.38 3 49.40	15 9 1.7 17 57.4	65.93	15 52.03
3.0	Do	3 6.10	2 38 20.78	15 26 59.1	66.01	15 51.79



Tag	Julian. Tag	O <sup>h</sup> mittlere Zeit Greenwich				log R	Unter-	Auf-		
		Sternzeit	Mittleres Äquinoktium 1923.0		gang		gang			
			Länge	Breite		in	Breite			
						+50°	in			
						o <sup>h</sup>	Länge			
1923	2423									
März	23	502	23 <sup>h</sup> 59 <sup>m</sup> 48.22	1 50 39.2	59 29.4	-0.48	9.998 6494	1212	6 <sup>h</sup> 16 <sup>m</sup>	17 <sup>h</sup> 57 <sup>m</sup>
	24	503	0 3 44.78	2 50 8.6	59 27.0	-0.49	9.998 7706	1213	6 18	17 54
	25	504	0 7 41.33	3 49 35.6	59 24.6	-0.47	9.998 8919	1215	6 19	17 52
	26	505	0 11 37.88	4 49 0.2	59 22.4	-0.43	9.999 0134	1218	6 21	17 50
	27	506	0 15 34.43	5 48 22.6	59 20.0	-0.36	9.999 1352	1223	6 22	17 48
	28	507	0 19 30.98	6 47 42.6	59 17.7	-0.26	9.999 2575	1228	6 24	17 46
	29	508	0 23 27.53	7 47 0.3	59 15.4	-0.15	9.999 3803	1234	6 26	17 43
	30	509	0 27 24.09	8 46 15.7	59 13.3	-0.01	9.999 5037	1241	6 27	17 41
	31	510	0 31 20.64	9 45 29.0	59 11.1	+0.12	9.999 6278	1248	6 29	17 39
April	1	511	0 35 17.19	10 44 40.1	59 9.1	+0.25	9.999 7526	1255	6 30	17 37
	2	512	0 39 13.74	11 43 49.2	59 7.1	+0.37	9.999 8781	1262	6 32	17 35
	3	513	0 43 10.29	12 42 56.3	59 5.2	+0.48	0.000 0043	1266	6 33	17 33
	4	514	0 47 6.85	13 42 1.5	59 3.3	+0.56	0.000 1309	1271	6 35	17 31
	5	515	0 51 3.40	14 41 4.8	59 1.6	+0.60	0.000 2580	1273	6 37	17 28
	6	516	0 54 59.95	15 40 6.4	58 59.9	+0.61	0.000 3853	1273	6 38	17 26
	7	517	0 58 56.50	16 39 6.3	58 58.2	+0.60	0.000 5126	1272	6 40	17 24
	8	518	1 2 53.06	17 38 4.5	58 56.4	+0.55	0.000 6398	1269	6 41	17 22
	9	519	1 6 49.61	18 37 0.9	58 54.7	+0.47	0.000 7667	1265	6 43	17 20
	10	520	1 10 46.16	19 35 55.6	58 52.9	+0.36	0.000 8932	1259	6 44	17 18
	11	521	1 14 42.71	20 34 48.5	58 51.0	+0.24	0.001 0191	1251	6 46	17 16
	12	522	1 18 39.26	21 33 39.5	58 49.3	+0.11	0.001 1442	1244	6 47	17 14
	13	523	1 22 35.82	22 32 28.8	58 47.4	-0.02	0.001 2686	1234	6 49	17 11
	14	524	1 26 32.37	23 31 18.2	58 45.5	-0.16	0.001 3920	1225	6 51	17 9
	15	525	1 30 28.92	24 30 1.7	58 43.6	-0.29	0.001 5145	1214	6 52	17 7
	16	526	1 34 25.47	25 28 45.3	58 41.6	-0.40	0.001 6359	1204	6 54	17 5
	17	527	1 38 22.03	26 27 26.9	58 39.6	-0.49	0.001 7563	1193	6 55	17 3
	18	528	1 42 18.58	27 26 6.5	58 37.5	-0.57	0.001 8756	1182	6 57	17 1
	19	529	1 46 15.13	28 24 44.0	58 35.5	-0.62	0.001 9938	1171	6 58	16 59
	20	530	1 50 11.69	29 23 19.5	58 33.5	-0.64	0.002 1109	1160	7 0	16 57
	21	531	1 54 8.24	30 21 53.0	58 31.2	-0.63	0.002 2269	1150	7 1	16 55
	22	532	1 58 4.79	31 20 24.2	58 29.0	-0.60	0.002 3419	1141	7 3	16 53
	23	533	2 2 1.34	32 18 53.2	58 26.9	-0.54	0.002 4560	1132	7 5	16 51
	24	534	2 5 57.90	33 17 20.1	58 24.7	-0.45	0.002 5692	1124	7 6	16 49
	25	535	2 9 54.45	34 15 44.8	58 22.6	-0.34	0.002 6816	1117	7 8	16 48
	26	536	2 13 51.00	35 14 7.4	58 20.4	-0.22	0.002 7933	1112	7 9	16 46
	27	537	2 17 47.56	36 12 27.8	58 18.4	-0.08	0.002 9045	1108	7 11	16 44
	28	538	2 21 44.11	37 10 46.2	58 16.4	+0.06	0.003 0153	1104	7 12	16 42
	29	539	2 25 40.66	38 9 2.6	58 14.5	+0.17	0.003 1257	1100	7 14	16 40
	30	540	2 29 37.22	39 7 17.1	58 12.8	+0.28	0.003 2357	1098	7 16	16 38
May	1	541	2 33 33.77	40 5 29.9	58 11.0	+0.37	0.003 3455	1094	7 17	16 36
	2	542	2 37 30.33	41 3 40.9	58 9.4	+0.42	0.003 4549	1090	7 19	16 35
	3	543	2 41 26.88	42 1 50.3		+0.43	0.003 5639		7 20	16 33

Mittlere Zeit Greenwich		Wochentag	Zeitgleichung Mittlere Zeit <i>minus</i> Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durch- gangs- Dauer St. - Zt.	Halb- messer
1923										
Mai	3.0	Do	-3	<sup>m</sup> 6.10 6.60	<sup>h</sup> 2 38 <sup>m</sup> 20.78 <sup>s</sup> 49.95	+15	<sup>°</sup> 26 59.1 <sup>'</sup> 17 42.1	66.01	15	51.79
	4.0	Fr		3 12.70 6.03	2 42 10.73 3 50.53		15 44 41.2 17 26.5	66.09	15	51.55
	5.0	Sa		3 18.73 5.46	2 46 1.26 3 51.10		16 2 7.7 17 10.7	66.17	15	51.31
	6.0	St		3 24.19 4.87	2 49 52.36 3 51.68		16 19 18.4 16 54.5	66.25	15	51.08
	7.0	Mo		3 29.06 4.29	2 53 44.04 3 52.27		16 36 12.9 16 38.0	66.33	15	50.85
	8.0	Di		3 33.35 3.70	2 57 36.31 3 52.85		16 52 50.9 16 21.2	66.41	15	50.62
	9.0	Mi	-3	37.05 3.11	3 1 29.16 3 53.44	+17	9 12.1 16 4.1	66.49	15	50.39
	10.0	Do		3 40.16 2.53	3 5 22.60 3 54.03		17 25 16.2 15 46.7	66.57	15	50.17
	11.0	Fr		3 42.69 1.94	3 9 16.63 3 54.61		17 41 2.9 15 29.0	66.65	15	49.95
	12.0	Sa		3 44.63 1.35	3 13 11.24 3 55.20		17 56 31.9 15 11.0	66.73	15	49.74
	13.0	St		3 45.98 0.77	3 17 6.44 3 55.79		18 11 42.9 14 52.7	66.82	15	49.52
	14.0	Mo		3 46.75 0.20	3 21 2.23 3 56.36		18 26 35.6 14 34.2	66.90	15	49.31
	15.0	Di	-3	46.95 0.38	3 24 58.59 3 56.93	+18	41 9.8 14 15.2	66.98	15	49.11
	16.0	Mi		3 46.57 0.94	3 28 55.52 3 57.49		18 55 25.0 13 56.1	67.06	15	48.91
	17.0	Do		3 45.63 1.50	3 32 53.01 3 58.06		19 9 21.1 13 36.7	67.14	15	48.72
	18.0	Fr		3 44.13 2.05	3 36 51.07 3 58.61		19 22 57.8 13 16.9	67.22	15	48.53
	19.0	Sa		3 42.08 2.59	3 40 49.68 3 59.14		19 36 14.7 12 56.9	67.30	15	48.34
	20.0	St		3 39.49 3.12	3 44 48.82 3 59.68		19 49 11.6 12 36.7	67.38	15	48.16
	21.0	Mo	-3	36.37 3.65	3 48 48.50 4 0.21	+20	1 48.3 12 16.1	67.46	15	47.98
	22.0	Di		3 32.72 4.16	3 52 48.71 4 0.71		20 14 4.4 11 55.3	67.53	15	47.80
	23.0	Mi		3 28.56 4.67	3 56 49.42 4 1.22		20 25 59.7 11 34.3	67.61	15	47.63
	24.0	Do		3 23.89 5.15	4 0 50.64 4 1.71		20 37 34.0 11 13.1	67.68	15	47.47
	25.0	Fr		3 18.74 5.65	4 4 52.35 4 2.20		20 48 47.1 10 51.5	67.75	15	47.31
	26.0	Sa		3 13.09 6.12	4 8 54.55 4 2.68		20 59 38.6 10 29.8	67.82	15	47.15
	27.0	St	-3	6.97 6.58	4 12 57.23 4 3.14	+21	10 8.4 10 7.8	67.89	15	46.99
	28.0	Mo		3 0.39 7.05	4 17 0.37 4 3.60		21 20 16.2 9 45.7	67.96	15	46.83
	29.0	Di		2 53.34 7.50	4 21 3.97 4 4.06		21 30 1.9 9 23.4	68.02	15	46.68
	30.0	Mi		2 45.84 7.94	4 25 8.03 4 4.50		21 39 25.3 9 0.8	68.09	15	46.53
	31.0	Do		2 37.90 8.38	4 29 12.53 4 4.93		21 48 26.1 8 38.1	68.15	15	46.38
Juni	1.0	Fr		2 29.52 8.80	4 33 17.46 4 5.36		21 57 4.2 8 15.3	68.21	15	46.24
	2.0	Sa	-2	20.72 9.22	4 37 22.82 4 5.77	+22	5 19.5 7 52.2	68.27	15	46.09
	3.0	St		2 11.50 9.61	4 41 28.59 4 6.17		22 13 11.7 7 28.9	68.32	15	45.95
	4.0	Mo		2 1.89 9.99	4 45 34.76 4 6.55		22 20 40.6 7 5.6	68.37	15	45.81
	5.0	Di		1 51.90 10.35	4 49 41.31 4 6.91		22 27 46.2 6 42.1	68.42	15	45.68
	6.0	Mi		1 41.55 10.70	4 53 48.22 4 7.25		22 34 28.3 6 18.4	68.46	15	45.55
	7.0	Do		1 30.85 11.02	4 57 55.47 4 7.58		22 40 46.7 5 54.6	68.50	15	45.42
	8.0	Fr	-1	19.83 11.33	5 2 3.05 4 7.88	+22	46 41.3 5 30.6	68.54	15	45.30
	9.0	Sa		1 8.50 11.61	5 6 10.93 4 8.17		22 52 11.9 5 6.5	68.58	15	45.19
	10.0	St		0 56.89 11.86	5 10 19.10 4 8.42		22 57 18.4 4 42.4	68.62	15	45.08
	11.0	Mo		0 45.03 12.10	5 14 27.52 4 8.65		23 2 0.8 4 18.1	68.65	15	44.97
	12.0	Di		0 32.93 12.30	5 18 36.17 4 8.86		23 6 18.9 3 53.7	68.68	15	44.87
	13.0	Mi		0 20.63	5 22 45.03		23 10 12.6	68.71	15	44.77

Tag	Julian. Tag	O <sup>h</sup> mittlere Zeit Greenwich				log R	Unter-	Auf-			
		Sternzeit	Mittleres Äquinoktium 1923.0		gang		gang				
				Länge	Breite	in +50°	Breite				
						in	o <sup>h</sup> Länge				
1923	2423										
Mai	3	543	2 41 <sup>m</sup> 26.88	42 1 50.3	58 7.8	+0.43	0.003 5639	1085	7 20	16 33	
	4	544	2 45 23.44	42 59 58.1	58 6.4	+0.42	0.003 6724	1078	7 22	16 31	
	5	545	2 49 19.99	43 58 4.5	58 4.9	+0.38	0.003 7802	1069	7 23	16 29	
	6	546	2 53 16.54	44 56 9.4	58 3.6	+0.30	0.003 8871	1059	7 25	16 28	
	7	547	2 57 13.10	45 54 13.0	58 2.3	+0.21	0.003 9930	1047	7 26	16 26	
	8	548	3 1 9.65	46 52 15.3	58 0.8	+0.10	0.004 0977	1034	7 28	16 24	
	9	549	3 5 6.21	47 50 16.1			-0.02	0.004 2011	1019	7 29	16 23
	10	550	3 9 2.76	48 48 15.7	57 59.6		-0.16	0.004 3030	1003	7 31	16 21
	11	551	3 12 59.32	49 46 13.9	57 58.2		-0.29	0.004 4033	988	7 32	16 20
	12	552	3 16 55.87	50 44 10.7	57 56.8		-0.41	0.004 5021	969	7 34	16 18
	13	553	3 20 52.43	51 42 6.0	57 55.3		-0.52	0.004 5990	952	7 35	16 17
	14	554	3 24 48.98	52 40 0.0	57 54.0		-0.63	0.004 6942	932	7 36	16 15
	15	555	3 28 45.54	53 37 52.6	57 52.6		-0.71	0.004 7874	913	7 38	16 14
	16	556	3 32 42.09	54 35 43.7	57 51.1		-0.76	0.004 8787	893	7 39	16 13
	17	557	3 36 38.64	55 33 33.4	57 49.7		-0.79	0.004 9680	873	7 41	16 11
	18	558	3 40 35.20	56 31 21.6	57 48.2		-0.80	0.005 0553	853	7 42	16 10
	19	559	3 44 31.76	57 29 8.2	57 46.6		-0.76	0.005 1406	834	7 43	16 9
	20	560	3 48 28.31	58 26 53.3	57 45.1		-0.70	0.005 2240	816	7 45	16 8
	21	561	3 52 24.87	59 24 36.7	57 42.0		-0.62	0.005 3056	797	7 46	16 6
	22	562	3 56 21.42	60 22 18.7	57 40.3		-0.52	0.005 3853	780	7 47	16 5
23	563	4 0 17.98	61 19 59.0	57 38.7		-0.40	0.005 4633	763	7 49	16 4	
24	564	4 4 14.53	62 17 37.7	57 37.2		-0.27	0.005 5396	749	7 50	16 3	
25	565	4 8 11.09	63 15 14.9	57 35.7		-0.15	0.005 6145	736	7 51	16 2	
26	566	4 12 7.65	64 12 50.6	57 34.2		-0.03	0.005 6881	723	7 52	16 1	
27	567	4 16 4.20	65 10 24.8	57 32.8		+0.08	0.005 7604	711	7 54	16 0	
28	568	4 20 0.76	66 7 57.6	57 31.6		+0.17	0.005 8315	701	7 55	15 59	
29	569	4 23 57.31	67 5 29.2	57 30.4		+0.23	0.005 9016	691	7 56	15 58	
30	570	4 27 53.87	68 2 59.6	57 29.4		+0.24	0.005 9707	680	7 57	15 57	
31	571	4 31 50.43	69 0 29.0	57 28.3		+0.23	0.006 0387	668	7 58	15 56	
Juni	1	572	4 35 46.98	69 57 57.3	57 27.5		+0.19	0.006 1055	657	7 59	15 56
	2	573	4 39 43.54	70 55 24.8	57 26.7		+0.13	0.006 1712	643	8 0	15 55
	3	574	4 43 40.10	71 52 51.5	57 26.1		+0.04	0.006 2355	629	8 1	15 54
	4	575	4 47 36.65	72 50 17.6	57 25.2		-0.09	0.006 2984	612	8 2	15 54
	5	576	4 51 33.21	73 47 42.8	57 24.6		-0.21	0.006 3596	595	8 3	15 53
	6	577	4 55 29.76	74 45 7.4	57 24.1		-0.33	0.006 4191	576	8 4	15 52
	7	578	4 59 26.32	75 42 31.5	57 23.4		-0.45	0.006 4767	557	8 5	15 52
	8	579	5 3 22.88	76 39 54.9	57 22.9		-0.57	0.006 5324	536	8 6	15 52
	9	580	5 7 19.43	77 37 17.8	57 22.2		-0.69	0.006 5860	514	8 7	15 51
	10	581	5 11 15.99	78 34 40.0	57 21.7		-0.79	0.006 6374	491	8 7	15 51
	11	582	5 15 12.55	79 32 1.7	57 21.1		-0.86	0.006 6865	468	8 8	15 51
	12	583	5 19 9.10	80 29 22.8	57 20.4		-0.91	0.006 7333	444	8 9	15 50
	13	584	5 23 5.66	81 26 43.2			-0.94	0.006 7777		8 9	15 50



Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit minus Wahre Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer St. - Zt.	Halb- messer
1923						
Juni 13.0	Mi	— <sup>m</sup> 20.63 12.49	5 <sup>h</sup> 22 <sup>m</sup> 45.03 <sup>s</sup> 4 9.05	+23 10 12.6 3 29.3	68.71	15 44.77
14.0	Do	— <sup>o</sup> 8.14 12.65	5 26 54.08 4 9.21	23 13 41.9 3 4.7	68.73	15 44.68
15.0	Fr	+ <sup>o</sup> 4.51 12.78	5 31 3.29 4 9.34	23 16 46.6 2 40.1	68.75	15 44.59
16.0	Sa	o 17.29 12.89	5 35 12.63 4 9.43	23 19 26.7 2 15.4	68.77	15 44.51
17.0	St	o 30.18 12.96	5 39 22.06 4 9.52	23 21 42.1 1 50.7	68.78	15 44.44
18.0	Mo	o 43.14 13.01	5 43 31.58 4 9.57	23 23 32.8 1 25.9	68.79	15 44.37
19.0	Di	+ <sup>o</sup> 56.15 13.03	5 47 41.15 4 9.59	+23 24 58.7 1 1.2	68.80	15 44.31
20.0	Mi	1 9.18 13.03	5 51 50.74 4 9.58	23 25 59.9 o 36.3	68.81	15 44.25
21.0	Do	1 22.21 13.00	5 56 o 32 4 9.56	23 26 36.2 o 11.6	68.81	15 44.19
22.0	Fr	1 35.21 12.95	6 o 9.88 4 9.50	23 26 47.8 o 13.3	68.81	15 44.14
23.0	Sa	1 48.16 12.87	6 4 19.38 4 9.43	23 26 34.5 o 38.1	68.80	15 44.10
24.0	St	2 1.03 12.78	6 8 28.81 4 9.34	23 25 56.4 1 2.8	68.79	15 44.06
25.0	Mo	+2 13.81 12.66	6 12 38.15 4 9.22	+23 24 53.6 1 27.6	68.78	15 44.02
26.0	Di	2 26.47 12.53	6 16 47.37 4 9.08	23 23 26.0 1 52.2	68.77	15 43.98
27.0	Mi	2 39.00 12.37	6 20 56.45 4 8.94	23 21 33.8 2 16.9	68.75	15 43.95
28.0	Do	2 51.37 12.21	6 25 5.39 4 8.76	23 19 16.9 2 41.5	68.73	15 43.92
29.0	Fr	3 3.58 12.02	6 29 14.15 4 8.57	23 16 35.4 3 6.0	68.70	15 43.89
30.0	Sa	3 15.60 11.81	6 33 22.72 4 8.37	23 13 29.4 3 30.4	68.67	15 43.87
Juli						
1.0	St	+3 27.41 11.59	6 37 31.09 4 8.15	+23 9 59.0 3 54.7	68.64	15 43.85
2.0	Mo	3 39.00 11.34	6 41 39.24 4 7.90	23 6 4.3 4 19.0	68.61	15 43.83
3.0	Di	3 50.34 11.08	6 45 47.14 4 7.64	23 1 45.3 4 43.1	68.57	15 43.82
4.0	Mi	4 1.42 10.80	6 49 54.78 4 7.35	22 57 2.2 5 7.1	68.53	15 43.81
5.0	Do	4 12.22 10.50	6 54 2.13 4 7.06	22 51 55.1 5 31.0	68.48	15 43.81
6.0	Fr	4 22.72 10.18	6 58 9.19 4 6.74	22 46 24.1 5 54.7	68.43	15 43.81
7.0	Sa	+4 32.90 9.84	7 2 15.93 4 6.39	+22 40 29.4 6 18.3	68.38	15 43.81
8.0	St	4 42.74 9.47	7 6 22.32 4 6.03	22 34 11.1 6 41.8	68.33	15 43.82
9.0	Mo	4 52.21 9.09	7 10 28.35 4 5.65	22 27 29.3 7 5.1	68.28	15 43.84
10.0	Di	5 1.30 8.69	7 14 34.00 4 5.24	22 20 24.2 7 28.2	68.22	15 43.86
11.0	Mi	5 9.99 8.28	7 18 39.24 4 4.83	22 12 56.0 7 51.2	68.16	15 43.88
12.0	Do	5 18.27 7.83	7 22 44.07 4 4.39	22 5 4.8 8 13.9	68.10	15 43.91
13.0	Fr	+5 26.10 7.37	7 26 48.46 4 3.93	+21 56 50.9 8 36.5	68.04	15 43.95
14.0	Sa	5 33.47 6.90	7 30 52.39 4 3.45	21 48 14.4 8 58.8	67.97	15 43.99
15.0	St	5 40.37 6.40	7 34 55.84 4 2.96	21 39 15.6 9 21.0	67.91	15 44.04
16.0	Mo	5 46.77 5.88	7 38 58.80 4 2.44	21 29 54.6 9 42.9	67.84	15 44.09
17.0	Di	5 52.65 5.35	7 43 1.24 4 1.91	21 20 11.7 10 4.7	67.76	15 44.15
18.0	Mi	5 58.00 4.81	7 47 3.15 4 1.36	21 10 7.0 10 26.1	67.69	15 44.21
19.0	Do	+6 2.81 4.25	7 51 4.51 4 0.80	+20 59 40.9 10 47.4	67.62	15 44.28
20.0	Fr	6 7.06 3.68	7 55 5.31 4 0.24	20 48 53.5 11 8.4	67.54	15 44.36
21.0	Sa	6 10.74 3.10	7 59 5.55 3 59.66	20 37 45.1 11 29.2	67.46	15 44.43
22.0	St	6 13.84 2.52	8 3 5.21 3 59.07	20 26 15.9 11 49.7	67.38	15 44.51
23.0	Mo	6 16.36 1.92	8 7 4.28 3 58.48	20 14 26.2 12 10.0	67.30	15 44.60
24.0	Di	6 18.28	8 11 2.76	20 2 16.2	67.22	15 44.69

Tag	Julian. Tag	0 <sup>h</sup> mittlere Zeit Greenwich				log <i>R</i>	Unter-	Auf-		
		Sternzeit	Mittleres Äquinoktium 1923.0				gang	gang		
			Länge	Breite		in +50°	Breite			
						in 0 <sup>h</sup>	Länge			
1923	2423									
Juni	13	584	5 <sup>h</sup> 23 <sup>m</sup> 5.66	81° 26' 43.2	57 19.9	-0.94	0.006 7777	419	8 <sup>h</sup> 9 <sup>m</sup> 15 50 <sup>m</sup>	
	14	585	5 27 2.22	82 24 3.1	57 19.2	-0.95	0.006 8196	394	8 10 15 50	
	15	586	5 30 58.78	83 21 22.3	57 18.6	-0.92	0.006 8590	368	8 10 15 50	
	16	587	5 34 55.33	84 18 40.9	57 17.8	-0.86	0.006 8958	344	8 11 15 50	
	17	588	5 38 51.89	85 15 58.7	57 17.1	-0.79	0.006 9302	319	8 11 15 50	
	18	589	5 42 48.44	86 13 15.8	57 16.4	-0.69	0.006 9621	295	8 12 15 50	
	19	590	5 46 45.00	87 10 32.2	57 15.6	-0.57	0.006 9916	272	8 12 15 50	
	20	591	5 50 41.56	88 7 47.8	57 14.9	-0.44	0.007 0188	251	8 12 15 50	
	21	592	5 54 38.12	89 5 2.7	57 14.2	-0.31	0.007 0439	230	8 13 15 50	
	22	593	5 58 34.67	90 2 16.9	57 13.4	-0.19	0.007 0669	210	8 13 15 50	
	23	594	6 2 31.23	90 59 30.3	57 12.9	-0.07	0.007 0879	193	8 13 15 51	
	24	595	6 6 27.79	91 56 43.2	57 12.2	+0.02	0.007 1072	177	8 13 15 51	
	25	596	6 10 24.34	92 53 55.4	57 11.7	+0.08	0.007 1249	161	8 13 15 51	
	26	597	6 14 20.90	93 51 7.1	57 11.3	+0.11	0.007 1410	146	8 13 15 52	
	27	598	6 18 17.46	94 48 18.4	57 11.0	+0.10	0.007 1556	133	8 13 15 52	
	28	599	6 22 14.01	95 45 29.4	57 10.8	+0.06	0.007 1689	118	8 13 15 53	
	29	600	6 26 10.57	96 42 40.2	57 10.6	0.00	0.007 1807	105	8 13 15 53	
	30	601	6 30 7.13	97 39 50.8	57 10.7	-0.09	0.007 1912	89	8 13 15 54	
	Juli	1	602	6 34 3.68	98 37 1.5	57 10.8	-0.20	0.007 2001	74	8 13 15 54
		2	603	6 38 0.24	99 34 12.3	57 10.8	-0.32	0.007 2075	57	8 13 15 55
		3	604	6 41 56.80	100 31 23.1	57 11.1	-0.44	0.007 2132	39	8 12 15 56
		4	605	6 45 53.35	101 28 34.2	57 11.3	-0.56	0.007 2171	21	8 12 15 57
		5	606	6 49 49.91	102 25 45.5	57 11.6	-0.69	0.007 2192	0	8 11 15 57
		6	607	6 53 46.47	103 22 57.1	57 12.0	-0.81	0.007 2192	21	8 11 15 58
		7	608	6 57 43.02	104 20 9.1	57 12.3	-0.91	0.007 2171	43	8 10 15 59
		8	609	7 1 39.58	105 17 21.4	57 12.6	-0.98	0.007 2128	65	8 10 16 0
		9	610	7 5 36.14	106 14 34.0	57 13.0	-1.03	0.007 2063	90	8 9 16 1
		10	611	7 9 32.69	107 11 47.0	57 13.4	-1.06	0.007 1973	113	8 9 16 2
		11	612	7 13 29.25	108 9 0.4	57 13.6	-1.06	0.007 1860	139	8 8 16 3
		12	613	7 17 25.80	109 6 14.0	57 14.1	-1.03	0.007 1721	165	8 7 16 4
13		614	7 21 22.36	110 3 28.1	57 14.4	-0.97	0.007 1556	191	8 6 16 5	
14		615	7 25 18.92	111 0 42.5	57 14.7	-0.88	0.007 1365	217	8 6 16 6	
15		616	7 29 15.47	111 57 57.2	57 14.8	-0.78	0.007 1148	243	8 5 16 7	
16		617	7 33 12.03	112 55 12.0	57 15.2	-0.67	0.007 0905	269	8 4 16 8	
17		618	7 37 8.59	113 52 27.2	57 15.3	-0.54	0.007 0636	293	8 3 16 9	
18		619	7 41 5.14	114 49 42.5	57 15.5	-0.41	0.007 0343	317	8 2 16 10	
19		620	7 45 1.70	115 46 58.0	57 15.7	-0.28	0.007 0026	339	8 1 16 11	
20		621	7 48 58.25	116 44 13.7	57 16.0	-0.16	0.006 9687	359	8 0 16 13	
21		622	7 52 54.81	117 41 29.7	57 16.1	-0.06	0.006 9328	379	7 59 16 14	
22		623	7 56 51.36	118 38 45.8	57 16.4	+0.02	0.006 8949	397	7 58 16 15	
23		624	8 0 47.92	119 36 2.2	57 16.8	+0.06	0.006 8552	412	7 56 16 17	
24		625	8 4 44.48	120 33 19.0		+0.07	0.006 8140		7 55 16 18	



Mittlere Zeit (Greenwich)		Wochentag	Zeitgleichung Mittlere Zeit minus Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durch- gangs- Dauer St. - Zt.	Halb- messer	
1923											
Juli	24.0	Di	+6 <sup>m</sup> 18.28	1.33	8 <sup>h</sup> 11 <sup>m</sup> 2.76	3 57.88	+20° 2 16.2	12 30.0	67.22	15 44.69	
	25.0	Mi	6 19.61	0.73	8 15 0.64	3 57.29	19 49 46.2	12 49.8	67.14	15 44.78	
	26.0	Do	6 20.34	0.14	8 18 57.93	3 56.69	19 36 56.4	13 9.4	67.06	15 44.88	
	27.0	Fr	6 20.48	0.47	8 22 54.62	3 56.09	19 23 47.0	13 28.7	66.97	15 44.98	
	28.0	Sa	6 20.01	1.06	8 26 50.71	3 55.50	19 10 18.3	13 47.6	66.89	15 45.08	
	29.0	St	6 18.95	1.65	8 30 46.21	3 54.90	18 56 30.7	14 6.4	66.80	15 45.19	
	30.0	Mo	+6 17.30	2.25	8 34 41.11	3 54.30	+18 42 24.3	14 24.9	66.71	15 45.29	
	31.0	Di	6 15.05	2.84	8 38 35.41	3 53.72	18 27 59.4	14 43.1	66.63	15 45.40	
	Aug.	1.0	Mi	6 12.21	3.43	8 42 29.13	3 53.12	18 13 16.3	15 1.0	66.54	15 45.51
		2.0	Do	6 8.78	4.02	8 46 22.25	3 52.54	17 58 15.3	15 18.7	66.45	15 45.63
3.0		Fr	6 4.76	4.60	8 50 14.79	3 51.95	17 42 56.6	15 36.0	66.37	15 45.76	
4.0		Sa	6 0.16	5.20	8 54 6.74	3 51.36	17 27 20.6	15 53.1	66.28	15 45.88	
5.0		St	+5 54.96	5.77	8 57 58.10	3 50.78	+17 11 27.5	16 9.8	66.19	15 46.01	
6.0		Mo	5 49.19	6.35	9 1 48.88	3 50.20	16 55 17.7	16 26.3	66.11	15 46.14	
7.0		Di	5 42.84	6.94	9 5 39.08	3 49.63	16 38 51.4	16 42.5	66.02	15 46.28	
8.0		Mi	5 35.90	7.50	9 9 28.71	3 49.05	16 22 8.9	16 58.3	65.93	15 46.42	
9.0		Do	5 28.40	8.07	9 13 17.76	3 48.47	16 5 10.6	17 12.9	65.85	15 46.56	
10.0		Fr	5 20.33	8.65	9 17 6.23	3 47.91	15 47 56.7	17 29.2	65.77	15 46.71	
11.0	Sa	+5 11.68	9.21	9 20 54.14	3 47.35	+15 30 27.5	17 44.0	65.68	15 46.87		
12.0	St	5 2.47	9.77	9 24 41.49	3 46.78	15 12 43.5	17 58.7	65.60	15 47.03		
13.0	Mo	+ 52.70	10.33	9 28 28.27	3 46.22	14 54 44.8	18 12.9	65.52	15 47.20		
14.0	Di	4 42.37	10.89	9 32 14.49	3 45.67	14 36 31.9	18 26.8	65.44	15 47.37		
15.0	Mi	4 31.48	11.44	9 36 0.16	3 45.11	14 18 5.1	18 40.5	65.36	15 47.54		
16.0	Do	4 20.04	11.99	9 39 45.27	3 44.57	13 59 24.6	18 53.8	65.28	15 47.72		
17.0	Fr	+4 8.05	12.52	9 43 29.84	3 44.03	+13 40 30.8	19 6.7	65.21	15 47.91		
18.0	Sa	3 55.53	13.05	9 47 13.87	3 43.50	13 21 24.1	19 19.4	65.13	15 48.10		
19.0	St	3 42.48	13.57	9 50 57.37	3 42.99	13 2 4.7	19 31.7	65.06	15 48.29		
20.0	Mo	3 28.91	14.07	9 54 40.36	3 42.48	12 42 33.0	19 43.8	64.98	15 48.49		
21.0	Di	3 14.84	14.56	9 58 22.84	3 41.99	12 22 49.2	19 55.4	64.91	15 48.68		
22.0	Mi	3 0.28	15.04	10 2 4.83	3 41.52	12 2 53.8	20 6.9	64.85	15 48.88		
23.0	Do	+2 45.24	15.49	10 5 46.35	3 41.06	+11 42 46.9	20 17.9	64.78	15 49.08		
24.0	Fr	2 29.75	15.93	10 9 27.41	3 40.62	11 22 29.0	20 28.8	64.71	15 49.29		
25.0	Sa	2 13.82	16.36	10 13 8.03	3 40.20	11 2 0.2	20 39.2	64.65	15 49.50		
26.0	St	1 57.46	16.76	10 16 48.23	3 39.79	10 41 21.0	20 49.3	64.59	15 49.71		
27.0	Mo	1 40.70	17.14	10 20 28.02	3 39.41	10 20 31.7	20 59.3	64.53	15 49.92		
28.0	Di	1 23.56	17.51	10 24 7.43	3 39.04	9 59 32.4	21 8.8	64.47	15 50.13		
29.0	Mi	+1 6.05	17.86	10 27 46.47	3 38.70	+ 9 38 23.6	21 18.1	64.42	15 50.34		
30.0	Do	0 48.19	18.19	10 31 25.17	3 38.36	9 17 5.5	21 27.0	64.37	15 50.55		
31.0	Fr	0 30.00	18.50	10 35 3.53	3 38.05	8 55 38.5	21 35.7	64.32	15 50.77		
Sept.	1.0	Sa	+0 11.50	18.79	10 38 41.58	3 37.76	8 34 2.8	21 43.9	64.28	15 50.99	
	2.0	St	-0 7.29	19.08	10 42 19.34	3 37.48	8 12 18.9	21 52.0	64.23	15 51.22	
	3.0	Mo	0 26.37		10 45 56.82		7 50 26.9		64.19	15 51.44	

Tag	Julian. Tag	O <sup>b</sup> mittlere Zeit Greenwich				log R	Unter- gang in +5° o <sup>b</sup>	Auf- gang Breite o <sup>b</sup> Länge		
		Sternzeit	Mittleres Äquinoktium 1923.0		Breite					
			Länge							
1923	2423									
Juli	24	625	8 <sup>h</sup> 4 <sup>m</sup> 44.48	120° 33' 19.0	57° 17.1	+0.07	0.006 8140	428	7 <sup>h</sup> 55 <sup>m</sup> 16 <sup>h</sup> 18 <sup>m</sup>	
	25	626	8 8 41.03	121 30 36.1	57 17.7	+0.05	0.006 7712	441	7 54 16 19	
	26	627	8 12 37.59	122 27 53.8	57 18.2	-0.01	0.006 7271	455	7 53 16 20	
	27	628	8 16 34.14	123 25 12.0	57 19.0	-0.10	0.006 6816	468	7 51 16 22	
	28	629	8 20 30.70	124 22 31.0	57 19.8	-0.20	0.006 6348	481	7 50 16 23	
	29	630	8 24 27.25	125 19 50.8	57 20.6	-0.32	0.006 5867	495	7 48 16 25	
	30	631	8 28 23.81	126 17 11.4	57 21.6	-0.45	0.006 5372	508	7 47 16 26	
	31	632	8 32 20.36	127 14 33.0	57 22.6	-0.57	0.006 4864	522	7 46 16 27	
	Aug.	1	633	8 36 16.92	128 11 55.6	57 23.7	-0.70	0.006 4342	538	7 44 16 29
		2	634	8 40 13.47	129 9 19.3	57 24.9	-0.82	0.006 3804	555	7 43 16 30
3		635	8 44 10.03	130 6 44.2	57 26.1	-0.92	0.006 3249	571	7 41 16 32	
4		636	8 48 6.58	131 4 10.3	57 27.3	-1.00	0.006 2678	589	7 39 16 33	
5		637	8 52 3.14	132 1 37.6	57 28.4	-1.06	0.006 2089	608	7 38 16 34	
6		638	8 55 59.69	132 59 6.0	57 29.8	-1.09	0.006 1481	627	7 36 16 36	
7		639	8 59 56.24	133 56 35.8	57 31.1	-1.10	0.006 0854	648	7 35 16 37	
8		640	9 3 52.80	134 54 6.9	57 32.3	-1.07	0.006 0206	668	7 33 16 39	
9		641	9 7 49.35	135 51 39.2	57 33.7	-1.01	0.005 9538	691	7 31 16 40	
10		642	9 11 45.91	136 49 12.9	57 34.8	-0.92	0.005 8847	713	7 29 16 42	
11		643	9 15 42.46	137 46 47.7	57 36.1	-0.83	0.005 8134	735	7 28 16 43	
12		644	9 19 39.02	138 44 23.8	57 37.3	-0.72	0.005 7399	759	7 26 16 45	
13		645	9 23 35.57	139 42 1.1	57 38.5	-0.57	0.005 6640	782	7 24 16 46	
14		646	9 27 32.12	140 39 39.6	57 39.5	-0.42	0.005 5858	803	7 22 16 48	
15		647	9 31 28.68	141 37 19.1	57 40.6	-0.29	0.005 5055	825	7 20 16 49	
16		648	9 35 25.23	142 34 59.7	57 41.7	-0.16	0.005 4230	845	7 19 16 51	
17	649	9 39 21.78	143 32 41.4	57 42.7	-0.05	0.005 3385	863	7 17 16 52		
18	650	9 43 18.34	144 30 24.1	57 43.7	+0.03	0.005 2522	879	7 15 16 54		
19	651	9 47 14.89	145 28 7.8	57 44.7	+0.10	0.005 1643	894	7 13 16 55		
20	652	9 51 11.44	146 25 52.5	57 45.8	+0.12	0.005 0749	907	7 11 16 57		
21	653	9 55 8.00	147 23 38.3	57 47.0	+0.11	0.004 9842	919	7 9 16 58		
22	654	9 59 4.55	148 21 25.3	57 48.2	+0.06	0.004 8923	930	7 7 17 0		
23	655	10 3 1.10	149 19 13.5	57 49.6	-0.02	0.004 7993	938	7 5 17 1		
24	656	10 6 57.66	150 17 3.1	57 50.9	-0.11	0.004 7055	948	7 3 17 3		
25	657	10 10 54.21	151 14 54.0	57 52.3	-0.23	0.004 6107	955	7 1 17 4		
26	658	10 14 50.76	152 12 46.3	57 53.9	-0.35	0.004 5152	963	6 59 17 6		
27	659	10 18 47.32	153 10 40.2	57 55.6	-0.48	0.004 4189	970	6 57 17 7		
28	660	10 22 43.87	154 8 35.8	57 57.2	-0.61	0.004 3219	979	6 55 17 9		
29	661	10 26 40.42	155 6 33.0	57 58.9	-0.72	0.004 2240	986	6 53 17 10		
30	662	10 30 36.98	156 4 31.9	58 0.8	-0.83	0.004 1254	996	6 51 17 12		
31	663	10 34 33.53	157 2 32.7	58 2.6	-0.91	0.004 0258	1005	6 48 17 13		
Sept.	1	664	10 38 30.08	158 0 35.3	58 4.5	-0.98	0.003 9253	1014	6 46 17 15	
	2	665	10 42 26.63	158 58 39.8	58 6.4	-1.01	0.003 8239	1026	6 44 17 16	
	3	666	10 46 23.18	159 56 46.2		-1.02	0.003 7213		6 42 17 18	

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit minus Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durch- gangs- Dauer St.-Zt.	Halb- messer
1923									
Sept. 3.0	Mo	— 0	26.37	19.33	10 45 56.82	3 37.22	+7 50 26.9	21 59.7	64.19 15 51.44
4.0	Di	0	45.70	19.57	10 49 34.04	3 36.98	7 28 27.2	22 7.0	64.15 15 51.67
5.0	Mi	1	5.27	19.80	10 53 11.02	3 36.75	7 6 20.2	22 14.0	64.12 15 51.90
6.0	Do	1	25.07	20.00	10 56 47.77	3 36.55	6 44 6.2	22 20.7	64.08 15 52.14
7.0	Fr	1	45.07	20.20	11 0 24.32	3 36.36	6 21 45.5	22 27.1	64.05 15 52.37
8.0	Sa	2	5.27	20.37	11 4 0.68	3 36.18	5 59 18.4	22 33.2	64.02 15 52.61
9.0	St	— 2	25.64	20.53	11 7 36.86	3 36.02	+5 36 45.2	22 38.8	63.99 15 52.85
10.0	Mo	2	46.17	20.68	11 11 12.88	3 35.87	5 14 6.4	22 44.2	63.97 15 53.09
11.0	Di	3	6.85	20.81	11 14 48.75	3 35.74	4 51 22.2	22 49.1	63.95 15 53.34
12.0	Mi	3	27.66	20.93	11 18 24.49	3 35.62	4 28 33.1	22 53.8	63.93 15 53.59
13.0	Do	3	48.59	21.04	11 22 0.11	3 35.52	4 5 39.3	22 58.1	63.92 15 53.85
14.0	Fr	4	9.63	21.12	11 25 35.63	3 35.43	3 42 41.2	23 2.0	63.90 15 54.11
15.0	Sa	— 4	30.75	21.20	11 29 11.06	3 35.36	+3 19 39.2	23 5.7	63.89 15 54.37
16.0	St	4	51.95	21.24	11 32 46.42	3 35.30	2 56 33.5	23 8.9	63.89 15 54.64
17.0	Mo	5	13.19	21.28	11 36 21.72	3 35.28	2 33 24.6	23 11.7	63.88 15 54.90
18.0	Di	5	34.47	21.29	11 39 57.00	3 35.26	2 10 12.9	23 14.4	63.88 15 55.17
19.0	Mi	5	55.76	21.27	11 43 32.26	3 35.28	1 46 58.5	23 16.7	63.88 15 55.44
20.0	Do	6	17.03	21.24	11 47 7.54	3 35.31	1 23 41.8	23 18.6	63.89 15 55.71
21.0	Fr	— 6	38.27	21.19	11 50 42.85	3 35.37	+1 0 23.2	23 20.2	63.90 15 55.98
22.0	Sa	6	59.46	21.10	11 54 18.22	3 35.44	0 37 3.0	23 21.4	63.91 15 56.25
23.0	St	7	20.56	21.00	11 57 53.66	3 35.55	+0 13 41.6	23 22.5	63.92 15 56.52
24.0	Mo	7	41.56	20.87	12 1 29.21	3 35.68	— 0 9 40.9	23 23.0	63.94 15 56.79
25.0	Di	8	2.43	20.72	12 5 4.89	3 35.84	0 33 3.9	23 23.4	63.96 15 57.06
26.0	Mi	8	23.15	20.55	12 8 40.73	3 36.01	0 56 27.3	23 23.3	63.98 15 57.33
27.0	Do	— 8	43.70	20.34	12 12 16.74	3 36.21	— 1 19 50.6	23 23.0	64.01 15 57.60
28.0	Fr	9	4.04	20.12	12 15 52.95	3 36.43	1 43 13.6	23 22.3	64.04 15 57.87
29.0	Sa	9	24.16	19.87	12 19 29.38	3 36.67	2 6 35.9	23 21.3	64.07 15 58.15
30.0	St	9	44.03	19.61	12 23 6.05	3 36.95	2 29 57.2	23 19.9	64.11 15 58.42
Okt. 1.0	Mo	10	3.64	19.32	12 26 43.00	3 37.23	2 53 17.1	23 18.2	64.15 15 58.69
2.0	Di	10	22.96	19.01	12 30 20.23	3 37.54	3 16 35.3	23 16.2	64.19 15 58.96
3.0	Mi	— 10	41.97	18.67	12 33 57.77	3 37.88	— 3 39 51.5	23 13.7	64.24 15 59.23
4.0	Do	11	0.64	18.33	12 37 35.65	3 38.23	4 3 5.2	23 11.0	64.29 15 59.50
5.0	Fr	11	18.97	17.95	12 41 13.88	3 38.60	4 26 16.2	23 7.8	64.34 15 59.77
6.0	Sa	11	36.92	17.56	12 44 52.48	3 38.99	4 49 24.0	23 4.4	64.40 16 0.04
7.0	St	11	54.48	17.16	12 48 31.47	3 39.39	5 12 28.4	23 0.5	64.45 16 0.31
8.0	Mo	12	11.64	16.73	12 52 10.86	3 39.82	5 35 28.9	22 56.2	64.51 16 0.59
9.0	Di	— 12	28.37	16.30	12 55 50.68	3 40.26	— 5 58 25.1	22 51.6	64.57 16 0.87
10.0	Mi	12	44.67	15.84	12 59 30.94	3 40.70	6 21 16.7	22 46.6	64.64 16 1.14
11.0	Do	13	0.51	15.38	13 3 11.64	3 41.18	6 44 3.3	22 41.2	64.71 16 1.42
12.0	Fr	13	15.89	14.90	13 6 52.82	3 41.65	7 6 44.5	22 35.3	64.78 16 1.70
13.0	Sa	13	30.79	14.41	13 10 34.47	3 42.15	7 29 19.8	22 29.1	64.85 16 1.98
14.0	St	13	45.20		13 14 16.62		7 51 48.9		64.93 16 2.27



Tag	Julian. Tag	0 <sup>h</sup> mittlere Zeit Greenwich				log R	Unter-	Auf-
		Sternzeit	Mittleres Äquinoktium 1923.0		gang		gang	
			Länge	Breite		in +50°	Breite	
						in	0 <sup>h</sup> Länge	
1923	2423							
Sept.	3	666	10 <sup>h</sup> 46 <sup>m</sup> 23.18	159° 56' 46.2	58 8.4	-1.02	0.003 7213	6 <sup>h</sup> 42 <sup>m</sup> 17 <sup>h</sup> 18 <sup>m</sup>
	4	667	10 50 19.74	160 54 54.6	58 10.4	-1.00	0.003 6176	6 40 17 19
	5	668	10 54 16.29	161 53 5.0	58 12.4	-0.96	0.003 5128	6 38 17 21
	6	669	10 58 12.84	162 51 17.4	58 14.4	-0.88	0.003 4067	6 36 17 22
	7	670	11 2 9.39	163 49 31.8	58 16.4	-0.78	0.003 2992	6 34 17 24
	8	671	11 6 5.95	164 47 48.2	58 18.2	-0.65	0.003 1903	6 31 17 25
	9	672	11 10 2.50	165 46 6.4	58 20.2	-0.52	0.003 0798	6 29 17 27
	10	673	11 13 59.05	166 44 26.6	58 22.1	-0.37	0.002 9678	6 27 17 28
	11	674	11 17 55.60	167 42 48.7	58 23.9	-0.23	0.002 8542	6 25 17 30
	12	675	11 21 52.15	168 41 12.6	58 25.6	-0.08	0.002 7390	6 23 17 31
	13	676	11 25 48.71	169 39 38.2	58 27.2	+0.04	0.002 6224	6 20 17 33
	14	677	11 29 45.26	170 38 5.4	58 28.9	+0.14	0.002 5044	6 18 17 34
	15	678	11 33 41.81	171 36 34.3	58 30.4	+0.21	0.002 3852	6 16 17 35
	16	679	11 37 38.36	172 35 4.7	58 32.1	+0.24	0.002 2649	6 14 17 37
	17	680	11 41 34.91	173 33 36.8	58 33.8	+0.25	0.002 1437	6 12 17 38
	18	681	11 45 31.47	174 32 10.6	58 35.3	+0.21	0.002 0219	6 9 17 40
	19	682	11 49 28.02	175 30 45.9	58 37.0	+0.16	0.001 8995	6 7 17 41
	20	683	11 53 24.57	176 29 22.9	58 38.7	+0.08	0.001 7767	6 5 17 43
	21	684	11 57 21.12	177 28 1.6	58 40.6	-0.03	0.001 6537	6 3 17 44
	22	685	12 1 17.67	178 26 42.2	58 42.3	-0.14	0.001 5307	6 1 17 46
23	686	12 5 14.22	179 25 24.5	58 44.3	-0.27	0.001 4076	5 58 17 47	
24	687	12 9 10.78	180 24 8.8	58 46.2	-0.39	0.001 2845	5 56 17 49	
25	688	12 13 7.33	181 22 55.0	58 48.2	-0.51	0.001 1616	5 54 17 51	
26	689	12 17 3.88	182 21 43.2	58 50.4	-0.61	0.001 0388	5 52 17 52	
27	690	12 21 0.43	183 20 33.6	58 52.4	-0.69	0.000 9161	5 50 17 54	
28	691	12 24 56.98	184 19 26.0	58 54.6	-0.76	0.000 7936	5 47 17 55	
29	692	12 28 53.54	185 18 20.6	58 56.9	-0.80	0.000 6711	5 45 17 57	
30	693	12 32 50.09	186 17 17.5	58 59.2	-0.81	0.000 5488	5 43 17 58	
Okt.	1	694	12 36 46.64	187 16 16.7	59 1.4	-0.79	0.000 4265	5 41 18 0
	2	695	12 40 43.19	188 15 18.1	59 3.6	-0.75	0.000 3041	5 39 18 1
	3	696	12 44 39.74	189 14 21.7	59 6.0	-0.69	0.000 1817	5 36 18 3
	4	697	12 48 36.29	190 13 27.7	59 8.4	-0.59	0.000 0592	5 34 18 4
	5	698	12 52 32.84	191 12 36.1	59 10.7	-0.47	9.999 9364	5 32 18 6
	6	699	12 56 29.40	192 11 46.8	59 13.0	-0.34	9.999 8133	5 30 18 7
	7	700	13 0 25.95	193 10 59.8	59 15.2	-0.19	9.999 6897	5 28 18 9
	8	701	13 4 22.50	194 10 15.0	59 17.4	-0.05	9.999 5657	5 26 18 10
	9	702	13 8 19.05	195 9 32.4	59 19.5	+0.09	9.999 4412	5 24 18 12
	10	703	13 12 15.61	196 8 51.9	59 21.5	+0.22	9.999 3160	5 22 18 14
	11	704	13 16 12.16	197 8 13.4	59 23.5	+0.33	9.999 1904	5 19 18 15
	12	705	13 20 8.71	198 7 36.9	59 25.4	+0.42	9.999 0642	5 17 18 17
	13	706	13 24 5.26	199 7 2.3	59 27.3	+0.47	9.998 9376	5 15 18 18
	14	707	13 28 1.82	200 6 29.6		+0.48	9.998 8108	5 13 18 20

Mittlere Zeit Greenwich		Wochentag	Zeitgleichung Mittlere Zeit minus Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durch- gangs- Dauer St. - Zt.	Halb- messer				
1923														
Okt.	14.0	St	—13	45.20	13.89	13	14	16.62	3 42.65	— 7 51 48.9	22 22.5	64.93	16	2.27
	15.0	Mo	13	59.09	13.37	13	17	59.27	3 43.19	8 14 11.4	22 15.5	65.01	16	2.55
	16.0	Di	14	12.46	12.83	13	21	42.46	3 43.72	8 36 26.9	22 8.1	65.09	16	2.82
	17.0	Mi	14	25.29	12.26	13	25	26.18	3 44.29	8 58 35.0	22 0.3	65.17	16	3.10
	18.0	Do	14	37.55	11.68	13	29	10.47	3 44.88	9 20 35.3	21 52.1	65.26	16	3.38
	19.0	Fr	14	49.23	11.08	13	32	55.35	3 45.47	9 42 27.4	21 43.7	65.35	16	3.66
	20.0	Sa	—15	0.31	10.47	13	36	40.82	3 46.09	—10 4 11.1	21 34.7	65.44	16	3.94
	21.0	St	15	10.78	9.82	13	40	26.91	3 46.73	10 25 45.8	21 25.4	65.53	16	4.21
	22.0	Mo	15	20.60	9.16	13	44	13.64	3 47.39	10 47 11.2	21 15.7	65.62	16	4.48
	23.0	Di	15	29.76	8.50	13	48	1.03	3 48.06	11 8 26.9	21 5.7	65.72	16	4.75
	24.0	Mi	15	38.26	7.80	13	51	49.09	3 48.75	11 29 32.6	20 55.3	65.82	16	5.02
	25.0	Do	15	46.06	7.08	13	55	37.84	3 49.47	11 50 27.9	20 44.4	65.92	16	5.29
	26.0	Fr	—15	53.14	6.36	13	59	27.31	3 50.19	—12 11 12.3	20 33.2	66.02	16	5.55
	27.0	Sa	15	59.50	5.62	14	3	17.50	3 50.94	12 31 45.5	20 21.6	66.13	16	5.81
	28.0	St	16	5.12	4.86	14	7	8.44	3 51.69	12 52 7.1	20 9.6	66.24	16	6.07
	29.0	Mo	16	9.98	4.08	14	11	0.13	3 52.47	13 12 16.7	19 57.3	66.34	16	6.32
	30.0	Di	16	14.06	3.30	14	14	52.60	3 53.26	13 32 14.0	19 44.4	66.45	16	6.57
	31.0	Mi	16	17.36	2.50	14	18	45.86	3 54.05	13 51 58.4	19 31.3	66.56	16	6.82
Nov.	1.0	Do	—16	19.86	1.68	14	22	39.91	3 54.87	—14 11 29.7	19 17.8	66.68	16	7.07
	2.0	Fr	16	21.54	0.87	14	26	34.78	3 55.69	14 30 47.5	19 3.8	66.79	16	7.31
	3.0	Sa	16	22.41	0.04	14	30	30.47	3 56.51	14 49 51.3	18 49.3	66.90	16	7.55
	4.0	St	16	22.45	0.80	14	34	26.98	3 57.35	15 8 40.6	18 34.6	67.02	16	7.79
	5.0	Mo	16	21.65	1.63	14	38	24.33	3 58.20	15 27 15.2	18 19.4	67.14	16	8.03
	6.0	Di	16	20.02	2.48	14	42	22.53	3 59.03	15 45 34.6	18 3.8	67.25	16	8.27
	7.0	Mi	—16	17.54	3.33	14	46	21.56	3 59.87	—16 3 38.4	17 47.7	67.37	16	8.51
	8.0	Do	16	14.21	4.16	14	50	21.43	4 0.72	16 21 26.1	17 31.3	67.49	16	8.74
	9.0	Fr	16	10.05	5.00	14	54	22.15	4 1.56	16 38 57.4	17 14.4	67.61	16	8.98
	10.0	Sa	16	5.05	5.84	14	58	23.71	4 2.40	16 56 11.8	16 57.0	67.73	16	9.21
	11.0	St	15	59.21	6.68	15	2	26.11	4 3.23	17 13 8.8	16 39.3	67.85	16	9.44
	12.0	Mo	15	52.53	7.50	15	6	29.34	4 4.06	17 29 48.1	16 21.1	67.97	16	9.68
	13.0	Di	—15	45.03	8.34	15	10	33.40	4 4.89	—17 46 9.2	16 2.6	68.09	16	9.91
	14.0	Mi	15	36.69	9.17	15	14	38.29	4 5.72	18 2 11.8	15 43.6	68.20	16	10.13
	15.0	Do	15	27.52	9.99	15	18	44.01	4 6.55	18 17 55.4	15 24.3	68.32	16	10.35
	16.0	Fr	15	17.53	10.82	15	22	50.56	4 7.37	18 33 19.7	15 4.5	68.44	16	10.57
	17.0	Sa	15	6.71	11.63	15	26	57.93	4 8.19	18 48 24.2	14 44.4	68.56	16	10.79
	18.0	St	14	55.08	12.46	15	31	6.12	4 9.02	19 3 8.6	14 23.9	68.68	16	11.00
	19.0	Mo	—14	42.62	13.27	15	35	15.14	4 9.82	—19 17 32.5	14 3.1	68.79	16	11.21
	20.0	Di	14	29.35	14.08	15	39	24.96	4 10.64	19 31 35.6	13 41.8	68.90	16	11.41
	21.0	Mi	14	15.27	14.89	15	43	35.60	4 11.44	19 45 17.4	13 20.3	69.02	16	11.61
	22.0	Do	14	0.38	15.68	15	47	47.04	4 12.23	19 58 37.7	12 58.3	69.13	16	11.81
	23.0	Fr	13	44.70	16.46	15	51	59.27	4 13.03	20 11 36.0	12 36.0	69.24	16	12.00
	24.0	Sa	13	28.24		15	56	12.30		20 24 12.0		69.35	16	12.19



Tag	Julian. Tag	O <sup>h</sup> mittlere Zeit Greenwich				log R	Unter- gang in +50° Breite	Auf- gang Breite o <sup>h</sup> Länge
		Sternzeit	Mittleres Äquinoktium 1923.0 Länge	Breite				
1923	2423							
Okt. 14	707	13 <sup>h</sup> 28 <sup>m</sup> 1.82	200 <sup>o</sup> 6' 29.6	59 28.9	+0.48	9.998 8108	1268	5 <sup>h</sup> 13 <sup>m</sup> 18 <sup>o</sup> 20 <sup>m</sup>
15	708	13 31 58.37	201 5 58.5	59 30.7	+0.46	9.998 6840	1268	5 11 18 22
16	709	13 35 54.92	202 5 29.2	59 32.4	+0.41	9.998 5572	1264	5 9 18 23
17	710	13 39 51.47	203 5 1.6	59 34.2	+0.34	9.998 4308	1260	5 7 18 25
18	711	13 43 48.02	204 4 35.8	59 35.9	+0.25	9.998 3048	1253	5 5 18 26
19	712	13 47 44.58	205 4 11.7	59 37.7	+0.13	9.998 1795	1245	5 3 18 28
20	713	13 51 41.13	206 3 49.4	59 39.5	+0.01	9.998 0550	1236	5 1 18 30
21	714	13 55 37.68	207 3 28.9	59 41.3	-0.10	9.997 9314	1226	4 59 18 31
22	715	13 59 34.24	208 3 10.2	59 43.2	-0.22	9.997 8088	1215	4 57 18 33
23	716	14 3 30.79	209 2 53.4	59 45.2	-0.32	9.997 6873	1204	4 55 18 35
24	717	14 7 27.34	210 2 38.6	59 47.1	-0.41	9.997 5669	1192	4 53 18 36
25	718	14 11 23.90	211 2 25.7	59 49.1	-0.47	9.997 4477	1179	4 51 18 38
26	719	14 15 20.45	212 2 14.8	59 51.2	-0.51	9.997 3298	1167	4 50 18 39
27	720	14 19 17.00	213 2 6.0	59 53.3	-0.53	9.997 2131	1155	4 48 18 41
28	721	14 23 13.56	214 1 59.3	59 55.3	-0.52	9.997 0976	1142	4 46 18 43
29	722	14 27 10.11	215 1 54.6	59 57.5	-0.49	9.996 9834	1131	4 44 18 44
30	723	14 31 6.66	216 1 52.1	59 59.6	-0.42	9.996 8703	1119	4 42 18 46
31	724	14 35 3.22	217 1 51.7	60 1.8	-0.32	9.996 7584	1108	4 41 18 48
Nov. 1	725	14 38 59.77	218 1 53.5	60 3.9	-0.22	9.996 6476	1099	4 39 18 49
2	726	14 42 56.32	219 1 57.4	60 6.0	-0.09	9.996 5377	1089	4 37 18 51
3	727	14 46 52.88	220 2 3.4	60 8.3	+0.04	9.996 4288	1081	4 35 18 53
4	728	14 50 49.43	221 2 11.7	60 10.3	+0.18	9.996 3207	1074	4 34 18 54
5	729	14 54 45.99	222 2 22.0	60 12.4	+0.32	9.996 2133	1068	4 32 18 56
6	730	14 58 42.54	223 2 34.4	60 14.4	+0.45	9.996 1065	1062	4 30 18 58
7	731	15 2 39.10	224 2 48.8	60 16.1	+0.56	9.996 0003	1057	4 29 18 59
8	732	15 6 35.65	225 3 4.9	60 18.0	+0.64	9.995 8946	1053	4 27 19 1
9	733	15 10 32.20	226 3 22.9	60 19.7	+0.70	9.995 7893	1047	4 26 19 3
10	734	15 14 28.76	227 3 42.6	60 21.2	+0.72	9.995 6846	1041	4 24 19 4
11	735	15 18 25.31	228 4 3.8	60 22.7	+0.72	9.995 5805	1033	4 23 19 6
12	736	15 22 21.87	229 4 26.5	60 24.1	+0.67	9.995 4772	1024	4 21 19 8
13	737	15 26 18.42	230 4 50.6	60 25.5	+0.60	9.995 3748	1012	4 20 19 9
14	738	15 30 14.98	231 5 16.1	60 26.8	+0.50	9.995 2736	1000	4 19 19 11
15	739	15 34 11.53	232 5 42.9	60 28.2	+0.40	9.995 1736	985	4 17 19 13
16	740	15 38 8.09	233 6 11.1	60 29.5	+0.28	9.995 0751	969	4 16 19 14
17	741	15 42 4.64	234 6 40.6	60 30.7	+0.17	9.994 9782	952	4 15 19 16
18	742	15 46 1.20	235 7 11.3	60 32.1	+0.05	9.994 8830	934	4 14 19 18
19	743	15 49 57.76	236 7 43.4	60 33.4	-0.05	9.994 7896	914	4 13 19 19
20	744	15 53 54.31	237 8 16.8	60 34.8	-0.14	9.994 6982	894	4 11 19 21
21	745	15 57 50.87	238 8 51.6	60 36.1	-0.20	9.994 6088	873	4 10 19 22
22	746	16 1 47.42	239 9 27.7	60 37.6	-0.25	9.994 5215	851	4 9 19 24
23	747	16 5 43.98	240 10 5.3	60 38.9	-0.27	9.994 4364	829	4 8 19 25
24	748	16 9 40.53	241 10 44.2		-0.26	9.994 3535		4 7 19 27

Mittlere Zeit Greenwich		Wochentag	Zeitgleichung Mittlere Zeit minus Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durch- gangs- Dauer St. - Zt.	Halb- messer
1923										
Nov.	24.0	Sa	13 <sup>m</sup> 28.24	17.25	15 <sup>h</sup> 56 <sup>m</sup> 12.30	4 13.80	20° 24' 12.0	12 13.4	69.35	16 12.19
	25.0	St	13 10.99	18.02	16 0 26.10	4 14.58	20 36 25.4	11 50.5	69.46	16 12.37
	26.0	Mo	12 52.97	18.78	16 4 40.68	4 15.34	20 48 15.9	11 27.1	69.56	16 12.54
	27.0	Di	12 34.19	19.53	16 8 56.02	4 16.08	20 59 43.0	11 3.6	69.66	16 12.71
	28.0	Mi	12 14.66	20.26	16 13 12.10	4 16.82	21 10 46.6	10 39.6	69.76	16 12.88
	29.0	Do	11 54.40	20.98	16 17 28.92	4 17.53	21 21 26.2	10 15.4	69.86	16 13.04
	30.0	Fr	11 33.42	21.68	16 21 46.45	4 18.24	21 31 41.6	9 50.9	69.95	16 13.19
Dez.	1.0	Sa	11 11.74	22.36	16 26 4.69	4 18.91	21 41 32.5	9 26.1	70.04	16 13.35
	2.0	St	10 49.38	23.02	16 30 23.60	4 19.58	21 50 58.6	9 1.0	70.13	16 13.50
	3.0	Mo	10 26.36	23.66	16 34 43.18	4 20.21	21 59 59.6	8 35.6	70.22	16 13.64
	4.0	Di	10 2.70	24.27	16 39 3.39	4 20.83	22 8 35.2	8 10.0	70.30	16 13.78
	5.0	Mi	9 38.43	24.85	16 43 24.22	4 21.41	22 16 45.2	7 44.1	70.38	16 13.92
	6.0	Do	9 13.58	25.41	16 47 45.63	4 21.97	22 24 29.3	7 17.9	70.46	16 14.05
	7.0	Fr	8 48.17	25.92	16 52 7.60	4 22.48	22 31 47.2	6 51.5	70.53	16 14.18
	8.0	Sa	8 22.25	26.42	16 56 30.08	4 22.97	22 38 38.7	6 24.9	70.60	16 14.31
	9.0	St	7 55.83	26.87	17 0 53.05	4 23.43	22 45 3.6	5 58.1	70.66	16 14.44
	10.0	Mo	7 28.96	27.29	17 5 16.48	4 23.85	22 51 1.7	5 31.0	70.72	16 14.56
	11.0	Di	7 1.67	27.68	17 9 40.33	4 24.24	22 56 32.7	5 3.8	70.78	16 14.68
	12.0	Mi	6 33.99	28.04	17 14 4.57	4 24.59	23 1 36.5	4 36.4	70.83	16 14.79
	13.0	Do	6 5.95	28.36	17 18 29.16	4 24.92	23 6 12.9	4 8.8	70.88	16 14.90
	14.0	Fr	5 37.59	28.65	17 22 54.08	4 25.21	23 10 21.7	3 41.2	70.92	16 15.01
	15.0	Sa	5 8.94	28.91	17 27 19.29	4 25.47	23 14 2.9	3 13.3	70.96	16 15.11
	16.0	St	4 40.03	29.14	17 31 44.76	4 25.69	23 17 16.2	2 45.4	70.99	16 15.21
	17.0	Mo	4 10.89	29.34	17 36 10.45	4 25.89	23 20 1.6	2 17.3	71.02	16 15.30
	18.0	Di	3 41.55	29.50	17 40 36.34	4 26.06	23 22 18.9	1 49.2	71.05	16 15.39
	19.0	Mi	3 12.05	29.63	17 45 2.40	4 26.20	23 24 8.1	1 21.1	71.07	16 15.47
	20.0	Do	2 42.42	29.74	17 49 28.60	4 26.30	23 25 29.2	0 52.8	71.09	16 15.55
	21.0	Fr	2 12.68	29.81	17 53 54.90	4 26.36	23 26 22.0	0 24.6	71.10	16 15.62
	22.0	Sa	1 42.87	29.85	17 58 21.26	4 26.41	23 26 46.6	0 3.7	71.11	16 15.68
	23.0	St	1 13.02	29.87	18 2 47.67	4 26.42	23 26 42.9	0 32.0	71.12	16 15.74
	24.0	Mo	0 43.15	29.84	18 7 14.09	4 26.40	23 26 10.9	1 0.3	71.12	16 15.79
	25.0	Di	0 13.31	29.79	18 11 40.49	4 26.35	23 25 10.6	1 28.5	71.11	16 15.83
	26.0	Mi	+ 0 16.48	29.71	18 16 6.84	4 26.26	23 23 42.1	1 56.8	71.10	16 15.87
	27.0	Do	0 46.19	29.60	18 20 33.10	4 26.16	23 21 45.3	2 24.9	71.09	16 15.90
	28.0	Fr	1 15.79	29.45	18 24 59.26	4 26.01	23 19 20.4	2 53.0	71.07	16 15.93
	29.0	Sa	1 45.24	29.29	18 29 25.27	4 25.85	23 16 27.4	3 21.0	71.05	16 15.95
	30.0	St	+ 2 14.53	29.08	18 33 51.12	4 25.63	23 13 6.4	3 49.0	71.02	16 15.97
	31.0	Mo	2 43.61	28.84	18 38 16.75	4 25.40	23 9 17.4	4 16.7	70.99	16 15.98
	32.0	Di	3 12.45		18 42 42.15		23 5 0.7		70.95	16 15.98



Tag	Julian. Tag	0 <sup>h</sup> mittlere Zeit Greenwich				log <i>R</i>	Unter-	Auf-
		Sternzeit	Mittleres Äquinoktium 1923.0		in		gang	gang
	Länge		Breite	+		50°	Breite	
						in	0 <sup>h</sup> Länge	
1923	2423							
Nov. 24	748	16 <sup>h</sup> 9 <sup>m</sup> 40.53	241 <sup>o</sup> 10' 44.2	60' 40.4	-0.26	9.994 3535	807 4 <sup>h</sup> 7 <sup>m</sup> 19 <sup>h</sup> 27 <sup>m</sup>	
25	749	16 13 37.09	242 11 24.6	60 41.8	-0.23	9.994 2728	784 4 6 19 28	
26	750	16 17 33.65	243 12 6.4	60 43.3	-0.17	9.994 1944	762 4 5 19 30	
27	751	16 21 30.20	244 12 49.7	60 44.7	-0.09	9.994 1182	741 4 5 19 31	
28	752	16 25 26.76	245 13 34.4	60 46.3	+0.01	9.994 0441	719 4 4 19 33	
29	753	16 29 23.32	246 14 20.7	60 47.7	+0.14	9.993 9722	699 4 3 19 34	
30	754	16 33 19.87	247 15 8.4	60 49.3	+0.27	9.993 9023	678 4 2 19 35	
Dez. 1	755	16 37 16.43	248 15 57.7	60 50.7	+0.41	9.993 8345	666 4 2 19 37	
2	756	16 41 12.98	249 16 48.4	60 52.2	+0.55	9.993 7685	643 4 1 19 38	
3	757	16 45 9.54	250 17 40.6	60 53.6	+0.68	9.993 7042	627 4 1 19 39	
4	758	16 49 6.10	251 18 34.2	60 54.9	+0.79	9.993 6415	612 4 0 19 41	
5	759	16 53 2.66	252 19 29.1	60 56.2	+0.88	9.993 5803	598 4 0 19 42	
6	760	16 56 59.21	253 20 25.3	60 57.2	+0.93	9.993 5205	584 3 59 19 43	
7	761	17 0 55.77	254 21 22.5	60 58.3	+0.95	9.993 4621	571 3 59 19 44	
8	762	17 4 52.33	255 22 20.8	60 59.3	+0.93	9.993 4050	558 3 59 19 45	
9	763	17 8 48.88	256 23 20.1	61 0.0	+0.90	9.993 3492	544 3 59 19 46	
10	764	17 12 45.44	257 24 20.1	61 0.7	+0.83	9.993 2948	529 3 58 19 47	
11	765	17 16 42.00	258 25 20.8	61 1.4	+0.73	9.993 2419	513 3 58 19 48	
12	766	17 20 38.55	259 26 22.2	61 1.9	+0.62	9.993 1906	495 3 58 19 49	
13	767	17 24 35.11	260 27 24.1	61 2.4	+0.50	9.993 1411	476 3 58 19 50	
14	768	17 28 31.67	261 28 26.5	61 2.9	+0.37	9.993 0935	456 3 58 19 51	
15	769	17 32 28.23	262 29 29.4	61 3.2	+0.26	9.993 0479	433 3 58 19 52	
16	770	17 36 24.78	263 30 32.6	61 3.7	+0.16	9.993 0046	411 3 59 19 53	
17	771	17 40 21.34	264 31 36.3	61 4.0	+0.06	9.992 9635	387 3 59 19 54	
18	772	17 44 17.90	265 32 40.3	61 4.5	-0.01	9.992 9248	361 3 59 19 54	
19	773	17 48 14.46	266 33 44.8	61 4.9	-0.06	9.992 8887	336 3 59 19 55	
20	774	17 52 11.01	267 34 49.7	61 5.2	-0.08	9.992 8551	309 4 0 19 56	
21	775	17 56 7.57	268 35 54.9	61 5.7	-0.07	9.992 8242	282 4 0 19 56	
22	776	18 0 4.13	269 37 0.6	61 6.0	-0.04	9.992 7960	254 4 1 19 57	
23	777	18 4 0.69	270 38 6.6	61 6.4	+0.01	9.992 7706	226 4 1 19 57	
24	778	18 7 57.24	271 39 13.0	61 6.8	+0.09	9.992 7480	199 4 2 19 58	
25	779	18 11 53.80	272 40 19.8	61 7.4	+0.19	9.992 7281	171 4 2 19 58	
26	780	18 15 50.36	273 41 27.2	61 7.8	+0.32	9.992 7110	143 4 3 19 58	
27	781	18 19 46.92	274 42 35.0	61 8.2	+0.45	9.992 6967	117 4 4 19 58	
28	782	18 23 43.47	275 43 43.2	61 8.8	+0.59	9.992 6850	91 4 4 19 59	
29	783	18 27 40.03	276 44 52.0	61 9.2	+0.73	9.992 6759	67 4 5 19 59	
30	784	18 31 36.59	277 46 1.2	61 9.6	+0.85	9.992 6692	44 4 6 19 59	
31	785	18 35 33.14	278 47 10.8	61 10.2	+0.95	9.992 6648	22 4 7 19 59	
32	786	18 39 29.70	279 48 21.0		+1.03	9.992 6626	4 4 8 19 59	

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1923.0								
	X	Stünd- liche Ände- rung	Re- duk- tion auf 1925.0	Y	Stünd- liche Ände- rung	Re- duk- tion auf 1925.0	Z	Stünd- liche Ände- rung	Re- duk- tion auf 1925.0
		Einheit: 7. Dez.	Einheit: 7. Dez.		Einheit: 7. Dez.	Einheit: 7. Dez.		Einheit: 7. Dez.	
1923									
Jan. 1.0	+0.171 9324	7172.7		-0.888 1312	1172.3		-0.385 2379	508.5	
1.5	0.180 5328	7161.3	+4710	0.886 6901	1229.6	+808	0.384 6128	533.4	+351
2.0	0.189 1192	7149.3		0.885 1803	1286.8		0.383 9578	558.2	
2.5	0.197 6909	7136.8	4694	0.883 6019	1343.8	885	0.383 2730	583.0	385
3.0	0.206 2473	7123.8		0.881 9552	1400.7		0.382 5586	607.7	
3.5	0.214 7878	7110.2	4676	0.880 2403	1457.5	961	0.381 8145	632.4	418
4.0	+0.223 3117	7096.2		-0.878 4572	1514.3		-0.381 0409	657.0	
4.5	0.231 8185	7081.7	+4657	0.876 6061	1570.9	+1037	0.380 2378	681.6	+451
5.0	0.240 3075	7066.6		0.874 6870	1627.5		0.379 4052	706.1	
5.5	0.248 7781	7051.0	4636	0.872 7002	1683.9	1113	0.378 5431	730.7	484
6.0	0.257 2297	7034.9		0.870 6457	1740.2		0.377 6516	755.2	
6.5	0.265 6616	7018.2	4614	0.868 5237	1796.4	1188	0.376 7308	779.5	517
7.0	+0.274 0733	7001.1		-0.866 3343	1852.6		-0.375 7808	803.8	
7.5	0.282 4641	6983.4	+4590	0.864 0776	1908.6	+1263	0.374 8016	828.1	+549
8.0	0.290 8333	6965.2		0.861 7537	1964.5		0.373 7932	852.4	
8.5	0.299 1803	6946.4	4565	0.859 3628	2020.3	1338	0.372 7557	876.6	582
9.0	0.307 5045	6927.1		0.856 9050	2076.0		0.371 6893	900.7	
9.5	0.315 8052	6907.2	4538	0.854 3804	2131.6	1412	0.370 5939	924.8	614
10.0	+0.324 0817	6886.8		-0.851 7893	2187.0		-0.369 4697	948.8	
10.5	0.332 3334	6865.9	+4510	0.849 1317	2242.3	+1486	0.368 3167	972.8	+646
11.0	0.340 5597	6844.4		0.846 4079	2297.4		0.367 1349	996.8	
11.5	0.348 7598	6822.3	4481	0.843 6180	2352.4	1559	0.365 9245	1020.6	678
12.0	0.356 9331	6799.7		0.840 7621	2407.3		0.364 6855	1044.3	
12.5	0.365 0789	6776.5	4450	0.837 8405	2462.0	* 1632	0.363 4181	1068.0	710
13.0	+0.373 1966	6752.8		-0.834 8535	2516.5		-0.362 1223	1091.6	
13.5	0.381 2854	6728.4	+4418	0.831 8012	2570.8	+1705	0.360 7982	1115.1	+741
14.0	0.389 3446	6703.5		0.828 6837	2624.9		0.359 4460	1138.5	
14.5	0.397 3736	6678.1	4385	0.825 5014	2678.8	1777	0.358 0657	1161.9	773
15.0	0.405 3718	6652.1		0.822 2546	2732.5		0.356 6574	1185.2	
15.5	0.413 3385	6625.5	4350	0.818 9435	2786.0	1848	0.355 2213	1208.4	804
16.0	+0.421 2729	6598.4		-0.815 5683	2839.2		-0.353 7574	1231.4	
16.5	0.429 1745	6570.8	+4314	0.812 1294	2892.2	+1919	0.352 2659	1254.4	+835
17.0	0.437 0426	6542.6		0.808 6271	2945.0		0.350 7469	1277.3	
17.5	0.444 8765	6513.8	4276	0.805 0616	2997.5	1989	0.349 2005	1300.0	865
18.0	0.452 6756	6484.6		0.801 4333	3049.7		0.347 6269	1322.6	
18.5	0.460 4393	6454.8	4237	0.797 7424	3101.7	2058	0.346 0262	1345.1	895
19.0	+0.468 1670	6424.5		-0.793 9894	3153.4		-0.344 3986	1367.6	
19.5	0.475 8579	6393.6	+4197	0.790 1745	3204.8	+2127	0.342 7441	1389.9	+925
20.0	0.483 5115	6362.3		0.786 2980	3255.9		0.341 0630	1412.0	
20.5	0.491 1272	6330.5	4156	0.782 3604	3306.7	2195	0.339 3554	1434.0	955
21.0	0.498 7045	6298.2		0.778 3620	3357.3		0.337 6214	1456.0	
21.5	0.506 2427	6265.4	4113	0.774 3031	3407.5	2263	0.335 8611	1477.8	984



Mittleres Äquinoktium 1923.0									
Mittlere Zeit Greenwich	X	Stünd- liche Ände- rung  Einheit: 7. Dez.	Re- duk- tion auf 1925.0	Y	Stünd- liche Ände- rung  Einheit: 7. Dez.	Re- duk- tion auf 1925.0	Z	Stünd- liche Ände- rung  Einheit: 7. Dez.	Re- duk- tion auf 1925.0
<b>1923</b>									
Jan. 21.5	+0.506 2427	6265.4	+4113	-0.774 3031	3407.5	+2263	-0.335 8611	1477.8	+ 984
22.0	0.513 7412	6232.1		0.770 1841	3457.4		0.334 0748	1499.5	
22.5	0.521 1995	6198.3	4069	0.766 0054	3507.0	2330	0.332 2625	1521.0	1013
23.0	0.528 6170	6164.1		0.761 7673	3556.4		0.330 4245	1542.4	
23.5	0.535 9931	6129.4	4023	0.757 4702	3605.4	2396	0.328 5608	1563.7	1042
24.0	0.543 3274	6094.3		0.753 1145	3654.1		0.326 6717	1584.8	
24.5	+0.550 6192	6058.7	+3977	-0.748 7005	3702.5	+2461	-0.324 7574	1605.8	+1071
25.0	0.557 8680	6022.6		0.744 2287	3750.5		0.322 8180	1626.6	
25.5	0.565 0732	5986.0	3929	0.739 6994	3798.2	2526	0.320 8536	1647.3	1099
26.0	0.572 2343	5949.1		0.735 1130	3845.6		0.318 8644	1667.9	
26.5	0.579 3509	5911.7	3880	0.730 4700	3892.7	2590	0.316 8506	1688.4	1127
27.0	0.586 4223	5873.9		0.725 7706	3939.5		0.314 8123	1708.7	
27.5	+0.593 4481	5835.7	+3830	-0.721 0153	3985.9	+2653	-0.312 7497	1728.9	+1154
28.0	0.600 4279	5797.1		0.716 2045	4032.0		0.310 6630	1748.9	
28.5	0.607 3610	5758.0	3779	0.711 3387	4077.7	2715	0.308 5524	1768.8	1181
29.0	0.614 2470	5718.6		0.706 4182	4123.1		0.306 4180	1788.5	
29.5	0.621 0855	5678.8	3726	0.701 4434	4168.2	2777	0.304 2600	1808.1	1207
30.0	0.627 8760	5638.6		0.696 4147	4212.9		0.302 0786	1827.5	
30.5	+0.634 6180	5598.0	+3672	-0.691 3325	4257.3	+2837	-0.299 8740	1846.8	+1233
31.0	0.641 3110	5557.0		0.686 1972	4301.4		0.297 6463	1865.9	
31.5	0.647 9546	5515.6	3617	0.681 0092	4345.2	2897	0.295 3957	1884.9	1259
Febr. 1.0	0.654 5483	5473.8		0.675 7689	4388.6		0.293 1225	1903.8	
1.5	0.661 0916	5431.7	3561	0.670 4767	4431.7	2955	0.290 8267	1922.6	1285
2.0	0.667 5842	5389.2		0.665 1329	4474.5		0.288 5084	1941.2	
2.5	+0.674 0256	5346.4	+3504	-0.659 7380	4517.0	+3013	-0.286 1679	1959.6	+1310
3.0	0.680 4153	5303.1		0.654 2923	4559.1		0.283 8055	1977.8	
3.5	0.686 7528	5259.5	3446	0.648 7962	4600.9	3070	0.281 4212	1996.0	1335
4.0	0.693 0378	5215.5		0.643 2500	4642.5		0.279 0151	2014.0	
4.5	0.699 2698	5171.1	3387	0.637 6543	4683.7	3126	0.276 5875	2031.9	1359
5.0	0.705 4482	5126.2		0.632 0094	4724.5		0.274 1386	2049.6	
5.5	+0.711 5726	5081.0	+3327	-0.626 3156	4765.0	+3181	-0.271 6686	2067.1	+1383
6.0	0.717 6425	5035.4		0.620 5734	4805.2		0.269 1776	2084.6	
6.5	0.723 6575	4989.5	3265	0.614 7832	4845.0	3235	0.266 6657	2101.9	1407
7.0	0.729 6171	4943.1		0.608 9454	4884.5		0.264 1332	2119.0	
7.5	0.735 5208	4896.3	3203	0.603 0604	4923.7	3288	0.261 5803	2135.9	1430
8.0	0.741 3681	4849.1		0.597 1286	4962.5		0.259 0071	2152.7	
8.5	+0.747 1585	4801.6	+3139	-0.591 1505	5000.9	+3340	-0.256 4138	2169.3	+1452
9.0	0.752 8917	4753.7		0.585 1266	5038.9		0.253 8007	2185.8	
9.5	0.758 5671	4705.3	3075	0.579 0572	5076.6	3391	0.251 1680	2202.1	1474
10.0	0.764 1842	4656.5		0.572 9428	5113.9		0.248 5158	2218.2	
10.5	0.769 7426	4607.4	3010	0.566 7839	5150.8	3441	0.245 8443	2234.2	1496
11.0	0.775 2419	4557.9		0.560 5810	5187.3		0.243 1538	2250.0	



Mittleres Äquinoktium 1923.0									
Mittlere Zeit (Greenwich)	X	Stünd- liche Ände- rung Einheit: 7. Dez.	Re- duk- tion auf 1925.0	Y	Stünd- liche Ände- rung Einheit: 7. Dez.	Re- duk- tion auf 1925.0	Z	Stünd- liche Ände- rung Einheit: 7. Dez.	Re- duk- tion auf 1925.0
1923									
Febr. 11.0	+0.775 2419	4557.9		-0.560 5810	5187.3		-0.243 1538	2250.0	
11.5	0.780 6815	4508.1	+2944	0.554 3346	5223.3	+3490	0.240 4444	2265.6	+1518
12.0	0.786 0611	4457.8		0.548 0453	5258.9		0.237 7164	2281.0	
12.5	0.791 3801	4407.2	2877	0.541 7135	5294.1	3538	0.234 9700	2296.2	1539
13.0	0.796 6381	4356.2		0.535 3396	5328.9		0.232 2055	2311.3	
13.5	0.801 8348	4304.8	2809	0.528 9243	5363.3	3585	0.229 4230	2326.2	1559
14.0	+0.806 9696	4253.1		-0.522 4680	5397.2		-0.226 6227	2340.9	
14.5	0.812 0422	4201.1	+2740	0.515 9713	5430.6	+3630	0.223 8050	2355.3	+1579
15.0	0.817 0522	4148.8		0.509 4347	5463.6		0.220 9700	2369.6	
15.5	0.821 9992	4096.2	2670	0.502 8588	5496.1	3675	0.218 1179	2383.7	1598
16.0	0.826 8829	4043.2		0.496 2442	5528.2		0.215 2491	2397.6	
16.5	0.831 7028	3989.9	2599	0.489 5914	5559.8	3718	0.212 3637	2411.3	1617
17.0	+0.836 4586	3936.3		-0.482 9009	5590.9		-0.209 4620	2424.8	
17.5	0.841 1499	3882.5	+2528	0.476 1734	5621.6	+3760	0.206 5442	2438.2	+1635
18.0	0.845 7764	3828.3		0.469 4093	5651.8		0.203 6105	2451.3	
18.5	0.850 3377	3773.9	2456	0.462 6092	5681.5	3801	0.200 6613	2464.2	1653
19.0	0.854 8336	3719.2		0.455 7738	5710.8		0.197 6967	2476.9	
19.5	0.859 2637	3664.2	2383	0.448 9035	5739.6	3841	0.194 7169	2489.4	1670
20.0	+0.863 6277	3609.0		-0.441 9990	5767.9		-0.191 7223	2501.6	
20.5	0.867 9253	3553.5	+2310	0.435 0608	5795.7	+3879	0.188 7131	2513.7	+1687
21.0	0.872 1561	3497.8		0.428 0896	5823.0		0.185 6895	2525.6	
21.5	0.876 3200	3441.9	2236	0.421 0858	5849.9	3917	0.182 6517	2537.3	1703
22.0	0.880 4166	3385.8		0.414 0500	5876.3		0.179 6001	2548.7	
22.5	0.884 4458	3329.4	2161	0.406 9828	5902.2	3953	0.176 5348	2560.0	1719
23.0	+0.888 4072	3272.8		-0.399 8849	5927.6		-0.173 4561	2571.1	
23.5	0.892 3005	3216.0	+2085	0.392 7568	5952.5	+3988	0.170 3643	2581.9	+1734
24.0	0.896 1256	3159.1		0.385 5990	5977.0		0.167 2597	2592.5	
24.5	0.899 8822	3101.9	2009	0.378 4122	6001.0	4022	0.164 1424	2603.0	1749
25.0	0.903 5700	3044.5		0.371 1969	6024.5		0.161 0126	2613.2	
25.5	0.907 1889	2987.0	1932	0.363 9537	6047.5	4055	0.157 8707	2623.2	1763
26.0	+0.910 7388	2929.3		-0.356 6831	6070.1		-0.154 7169	2633.1	
26.5	0.914 2193	2871.4	+1855	0.349 3857	6092.2	+4086	0.151 5514	2642.7	+1777
27.0	0.917 6301	2813.3		0.342 0621	6113.8		0.148 3746	2652.0	
27.5	0.920 9713	2755.2	1777	0.334 7128	6134.9	4116	0.145 1866	2661.2	1790
28.0	0.924 2426	2696.9		0.327 3385	6155.5		0.141 9877	2670.2	
28.5	0.927 4438	2638.4	1698	0.319 9397	6175.8	4145	0.138 7781	2679.1	1803
März									
1.0	+0.930 5747	2579.8		-0.312 5168	6195.6		-0.135 5580	2687.7	
1.5	0.933 6353	2521.1	+1619	0.305 0704	6215.0	+4173	0.132 3277	2696.1	+1815
2.0	0.936 6254	2462.3		0.297 6010	6233.9		0.129 0874	2704.3	
2.5	0.939 5447	2403.2	1540	0.290 1092	6252.3	4199	0.125 8374	2712.3	1826
3.0	0.942 3931	2344.0		0.282 5956	6270.3		0.122 5780	2720.1	
3.5	0.945 1704	2284.7	1460	0.275 0606	6287.9	4224	0.119 3093	2727.7	1837

Mittleres Äquinoktium 1923.0									
Mittlere Zeit Greenwich	X	Stünd- liche Ände- rung  Einheit: 7. Dez.	Re- duk- tion auf 1925.0	Y	Stünd- liche Ände- rung  Einheit: 7. Dez.	Re- duk- tion auf 1925.0	Z	Stünd- liche Ände- rung  Einheit: 7. Dez.	Re- duk- tion auf 1925.0
<b>1923</b>									
März 3.5	+0.945 1704	2284.7	+1460	-0.275 0606	6287.9	+4224	-0.119 3093	2727.7	+1837
4.0	0.947 8764	2225.3		0.267 5048	6305.0		0.116 0315	2735.2	
4.5	0.950 5110	2165.7	1380	0.259 9287	6321.7	4248	0.112 7449	2742.4	1848
5.0	0.953 0740	2105.9		0.252 3328	6338.0		0.109 4498	2749.4	
5.5	0.955 5652	2046.0	1299	0.244 7177	6353.8	4271	0.106 1463	2756.3	1858
6.0	0.957 9845	1985.9		0.237 0838	6369.2		0.102 8347	2762.9	
6.5	+0.960 3315	1925.7	+1218	-0.229 4317	6384.2	+4292	-0.099 5153	2769.4	+1867
7.0	0.962 6062	1865.4		0.221 7620	6398.7		0.096 1882	2775.7	
7.5	0.964 8084	1804.9	1136	0.214 0751	6412.7	4312	0.092 8537	2781.7	1876
8.0	0.966 9379	1744.2		0.206 3717	6426.2		0.089 5122	2787.5	
8.5	0.968 9945	1683.4	1054	0.198 6524	6439.2	4331	0.086 1638	2793.2	1884
9.0	0.970 9781	1622.4		0.190 9178	6451.8		0.082 8087	2798.6	
9.5	+0.972 8884	1561.3	+ 972	-0.183 1683	6463.9	+4348	-0.079 4472	2803.8	+1891
10.0	0.974 7252	1500.1		0.175 4046	6475.5		0.076 0796	2808.8	
10.5	0.976 4885	1438.7	889	0.167 6272	6486.7	4364	0.072 7062	2813.6	1898
11.0	0.978 1781	1377.2		0.159 8367	6497.3		0.069 3271	2818.2	
11.5	0.979 7938	1315.6	806	0.152 0338	6507.4	4379	0.065 9426	2822.5	1904
12.0	0.981 3356	1254.0		0.144 2191	6517.0		0.062 5531	2826.6	
12.5	+0.982 8033	1192.2	+ 723	-0.136 3932	6526.1	+4392	-0.059 1587	2830.6	+1910
13.0	0.984 1968	1130.2		0.128 5567	6534.7		0.055 7597	2834.3	
13.5	0.985 5158	1068.2	640	0.120 7102	6542.8	4404	0.052 3565	2837.7	1915
14.0	0.986 7604	1006.1		0.112 8543	6550.3		0.048 9493	2840.9	
14.5	0.987 9305	944.0	556	0.104 9897	6557.3	4415	0.045 5383	2844.0	1920
15.0	0.989 0260	881.8		0.097 1170	6563.8		0.042 1237	2846.8	
15.5	+0.990 0468	819.6	+ 473	-0.089 2368	6569.8	+4425	-0.038 7059	2849.4	+1924
16.0	0.990 9929	757.3		0.081 3498	6575.2		0.035 2852	2851.7	
16.5	0.991 8642	694.9	389	0.073 4566	6580.1	4433	0.031 8618	2853.9	1928
17.0	0.992 6606	632.5		0.065 5578	6584.5		0.028 4359	2855.8	
17.5	0.993 3822	570.1	305	0.057 6540	6588.3	4440	0.025 0079	2857.5	1931
18.0	0.994 0289	507.7		0.049 7459	6591.7		0.021 5780	2859.0	
18.5	+0.994 6007	445.3	+ 221	-0.041 8342	6594.5	+4445	-0.018 1465	2860.2	+1933
19.0	0.995 0976	382.9		0.033 9194	6596.7		0.014 7137	2861.1	
19.5	0.995 5196	320.5	137	0.026 0022	6598.5	4449	0.011 2799	2861.9	1935
20.0	0.995 8667	258.1		0.018 0832	6599.7		0.007 8452	2862.5	
20.5	0.996 1390	195.7	+ 53	0.010 1630	6600.5	4452	0.004 4100	2862.9	1936
21.0	0.996 3364	133.4		-0.002 2422	6600.7		-0.000 9745	2863.0	
21.5	+0.996 4591	71.0	- 31	+0.005 6785	6600.4	+4453	+0.002 4610	2862.8	+1937
22.0	0.996 5069	8.7		0.013 5985	6599.5		0.005 8962	2862.4	
22.5	0.996 4800	53.5	115	0.021 5172	6598.2	4453	0.009 3308	2861.9	1937
23.0	0.996 3786	115.6		0.029 4339	6596.3		0.012 7647	2861.2	
23.5	0.996 2026	177.7	199	0.037 3481	6594.0	4152	0.016 1976	2860.2	1936
24.0	0.995 9521	239.8		0.045 2592	6591.1		0.019 6291	2858.9	



Mittlere Zeit Greenwich		Mittleres Äquinoktium 1923.0								
		X	Stünd- liche Ände- rung	Re- duktion auf 1925.0	Y	Stünd- liche Ände- rung	Re- duktion auf 1925.0	Z	Stünd- liche Ände- rung	Re- duktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.		
1923										
März	24.0	+0.995 9521	239.8		+0.045 2592	6591.1		+0.019 6291	2858.9	
	24.5	0.995 6272	301.7	- 283	0.053 1666	6587.7	+4449	0.023 0590	2857.5	+1935
	25.0	0.995 2280	363.6		0.061 0696	6583.9		0.026 4871	2855.9	
	25.5	0.994 7546	425.4	367	0.068 9677	6579.5	4445	0.029 9130	2854.0	1933
	26.0	0.994 2072	487.0		0.076 8602	6574.6		0.033 3366	2851.9	
	26.5	0.993 5858	548.6	451	0.084 7466	6569.3	4440	0.036 7576	2849.7	1931
	27.0	+0.992 8906	610.0		+0.092 6264	6563.5		+0.040 1758	2847.2	
	27.5	0.992 1217	671.4	- 535	0.100 4989	6557.2	+4434	0.043 5908	2844.5	+1928
	28.0	0.991 2793	732.6		0.108 3636	6550.5		0.047 0024	2841.6	
	28.5	0.990 3635	793.7	618	0.116 2199	6543.3	4126	0.050 4105	2838.5	1925
	29.0	0.989 3744	854.7		0.124 0672	6535.6		0.053 8147	2835.2	
	29.5	0.988 3122	915.6	702	0.131 9051	6527.5	4417	0.057 2149	2831.7	1921
	30.0	+0.987 1769	976.4		+0.139 7331	6519.0		+0.060 6107	2827.9	
	30.5	0.985 9688	1037.0	- 785	0.147 5505	6510.0	+4406	0.064 0019	2824.0	+1916
	31.0	0.984 6880	1097.6		0.155 3569	6500.6		0.067 3883	2820.0	
	31.5	0.983 3347	1158.0	868	0.163 1518	6490.8	4394	0.070 7698	2815.7	1911
April	1.0	0.981 9089	1218.3		0.170 9346	6480.5		0.074 1460	2811.2	
	1.5	0.980 4108	1278.5	951	0.178 7048	6469.8	4381	0.077 5167	2806.5	1905
	2.0	+0.978 8406	1338.6		+0.186 4619	6458.6		+0.080 8817	2801.7	
	2.5	0.977 1983	1398.6	-1033	0.194 2054	6447.1	+4367	0.084 2409	2796.7	+1899
	3.0	0.975 4841	1458.4		0.201 9348	6435.2		0.087 5939	2791.5	
	3.5	0.973 6981	1518.2	1115	0.209 6496	6422.7	4351	0.090 9405	2786.1	1892
	4.0	0.971 8405	1577.9		0.217 3491	6409.8		0.094 2804	2780.4	
	4.5	0.969 9112	1637.6	1197	0.225 0329	6396.5	4334	0.097 6134	2774.6	1885
	5.0	+0.967 9104	1697.1		+0.232 7005	6382.7		+0.100 9394	2768.7	
	5.5	0.965 8383	1756.4	-1278	0.240 3513	6368.5	+4316	0.104 2581	2762.5	+1877
	6.0	0.963 6951	1815.6		0.247 9847	6353.8		0.107 5693	2756.1	
	6.5	0.961 4808	1874.8	1359	0.255 6003	6338.7	4297	0.110 8726	2749.5	1869
	7.0	0.959 1955	1933.8		0.263 1975	6323.2		0.114 1679	2742.7	
	7.5	0.956 8395	1992.7	1439	0.270 7757	6307.1	4276	0.117 4549	2735.7	1860
	8.0	+0.954 4130	2051.5		+0.278 3343	6290.5		+0.120 7334	2728.5	
	8.5	0.951 9160	2110.1	-1519	0.285 8728	6273.5	+4254	0.124 0031	2721.0	+1850
	9.0	0.949 3487	2168.6		0.293 3905	6256.0		0.127 2637	2713.4	
	9.5	0.946 7113	2226.9	1599	0.300 8870	6238.1	4231	0.130 5151	2705.6	1840
	10.0	0.944 0041	2285.1		0.308 3617	6219.6		0.133 7570	2697.6	
	10.5	0.941 2272	2343.1	1678	0.315 8139	6200.7	4207	0.136 9892	2689.4	1829
	11.0	+0.938 3808	2400.9		+0.323 2431	6181.3		+0.140 2114	2680.9	
	11.5	0.935 4652	2458.5	-1757	0.330 6488	6161.4	+4181	0.143 4233	2672.3	+1818
	12.0	0.932 4805	2516.0		0.338 0303	6141.0		0.146 6248	2663.5	
	12.5	0.929 4270	2573.2	1835	0.345 3871	6120.2	4154	0.149 8156	2654.5	1806
	13.0	0.926 3049	2630.2		0.352 7187	6099.0		0.152 9954	2645.3	
	13.5	0.923 1146	2686.9	1913	0.360 0245	6077.3	4125	0.156 1640	2635.8	1794



## Mittleres Äquinoktium 1923.0

Mittlere Zeit Greenwich	X	Stünd- liche Ände- rung	Re- duk- tion auf 1925.0	Y	Stünd- liche Ände- rung	Re- duk- tion auf 1925.0	Z	Stünd- liche Ände- rung	Re- duk- tion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1923									
April 13.5	+0.923 1146	2686.9	-1913	+0.360 0245	6077.3	+4125	+0.156 1640	2635.8	+1794
14.0	0.919 8563	2743.5		0.367 3040	6055.1		0.159 3212	2626.1	
14.5	0.916 5302	2799.9	1990	0.374 5565	6032.3	4096	0.162 4667	2616.3	1781
15.0	0.913 1365	2856.1		0.381 7814	6009.1		0.165 6002	2606.3	
15.5	0.909 6757	2912.0	2067	0.388 9783	5985.5	4065	0.168 7216	2596.1	1768
16.0	0.906 1480	2967.6		0.396 1466	5961.5		0.171 8307	2585.7	
16.5	+0.902 5536	3023.0	-2143	+0.403 2858	5937.0	+4033	+0.174 9271	2575.0	+1754
17.0	0.898 8930	3078.1		0.410 3953	5912.1		0.178 0107	2564.2	
17.5	0.895 1664	3132.9	2219	0.417 4746	5886.7	4000	0.181 0812	2553.2	1740
18.0	0.891 3741	3187.5		0.424 5232	5860.9		0.184 1384	2542.1	
18.5	0.887 5165	3241.8	2294	0.431 5405	5834.6	3966	0.187 1821	2530.7	1725
19.0	0.883 5940	3295.8		0.438 5260	5807.8		0.190 2120	2519.1	
19.5	+0.879 6068	3349.5	-2368	+0.445 4791	5780.6	+3931	+0.193 2279	2507.4	+1709
20.0	0.875 5553	3402.9		0.452 3994	5753.1		0.196 2296	2495.5	
20.5	0.871 4399	3456.0	2441	0.459 2864	5725.1	3895	0.199 2169	2483.4	1693
21.0	0.867 2609	3508.9		0.466 1395	5696.7		0.202 1896	2471.1	
21.5	0.863 0187	3561.4	2514	0.472 9583	5667.9	3857	0.205 1474	2458.6	1677
22.0	0.858 7137	3613.6		0.479 7423	5638.7		0.208 0901	2445.9	
22.5	+0.854 3463	3665.4	-2586	+0.486 4909	5609.1	+3818	+0.211 0175	2433.1	+1660
23.0	0.849 9168	3717.0		0.493 2038	5579.1		0.213 9295	2420.2	
23.5	0.845 4256	3768.2	2657	0.499 8805	5548.7	3778	0.216 8259	2407.0	1643
24.0	0.840 8732	3819.1		0.506 5205	5517.9		0.219 7063	2393.6	
24.5	0.836 2600	3869.7	2727	0.513 1234	5486.8	3737	0.222 5706	2380.2	1625
25.0	0.831 5863	3919.9		0.519 6887	5455.3		0.225 4187	2366.6	
25.5	+0.826 8525	3969.7	-2797	+0.526 2160	5423.5	+3695	+0.228 2503	2352.8	+1607
26.0	0.822 0591	4019.2		0.532 7049	5391.3		0.231 0653	2338.8	
26.5	0.817 2065	4068.4	2865	0.539 1549	5358.7	3651	0.233 8634	2324.7	1588
27.0	0.812 2950	4117.4		0.545 5657	5325.8		0.236 6445	2310.4	
27.5	0.807 3250	4165.9	2933	0.551 9368	5292.6	3607	0.239 4084	2296.0	1569
28.0	0.802 2971	4214.1		0.558 2679	5259.2		0.242 1549	2281.5	
28.5	+0.797 2115	4262.0	-3000	+0.564 5587	5225.4	+3561	+0.244 8839	2266.8	+1549
29.0	0.792 0685	4309.6		0.570 8086	5191.2		0.247 5952	2252.0	
29.5	0.786 8686	4356.8	3066	0.577 0173	5156.7	3515	0.250 2886	2237.0	1529
30.0	0.781 6123	4403.7		0.583 1845	5121.9		0.252 9639	2221.9	
30.5	0.776 2998	4450.4	3131	0.589 3098	5086.8	3468	0.255 6211	2206.7	1509
Mai 1.0	0.770 9315	4496.8		0.595 3927	5051.4		0.258 2599	2191.3	
1.5	+0.765 5077	4542.8	-3196	+0.601 4330	5015.7	+3420	+0.260 8801	2175.7	+1488
2.0	0.760 0290	4588.5		0.607 4302	4979.6		0.263 4815	2160.0	
2.5	0.754 4956	4633.9	3259	0.613 3838	4943.1	3371	0.266 0640	2144.2	1466
3.0	0.748 9078	4679.0		0.619 2935	4906.4		0.268 6275	2128.2	
3.5	0.743 2660	4723.8	3322	0.625 1590	4869.4	3321	0.271 1717	2112.1	1444
4.0	0.737 5707	4768.3		0.630 9799	4832.0		0.273 6965	2095.8	

		Mittleres Äquinoktium 1923.0								
Mittlere Zeit Greenwich	X	Stünd- liche Ände- rung	Re- duktion auf 1925.0	Y	Stünd- liche Ände- rung	Re- duktion auf 1925.0	Z	Stünd- liche Ände- rung	Re- duktion auf 1925.0	
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.		
1923										
Mai 4.0	+0.737 5707	4768.3		+0.630 9799	4832.0		+0.273 6965	2095.8		
4.5	0.731 8221	4812.5	-3383	0.636 7557	4794.3	+3270	0.276 2017	2079.4	+1422	
5.0	0.726 0207	4856.4		0.642 4860	4756.2		0.278 6871	2062.9		
5.5	0.720 1669	4899.9	3444	0.648 1703	4717.7	3218	0.281 1526	2046.1	1399	
6.0	0.714 2611	4943.1		0.653 8083	4678.9		0.283 5979	2029.3		
6.5	0.708 3036	4986.0	3504	0.659 3995	4639.8	3165	0.286 0229	2012.3	1376	
7.0	+0.702 2948	5028.6		+0.664 9436	4600.3		+0.288 4274	1995.2		
7.5	0.696 2352	5070.7	-3563	0.670 4401	4560.5	+3111	0.290 8113	1977.9	+1353	
8.0	0.690 1253	5112.5		0.675 8887	4520.4		0.293 1744	1960.5		
8.5	0.683 9654	5153.9	3621	0.681 2889	4479.9	3056	0.295 5165	1942.9	1329	
9.0	0.677 7560	5195.0		0.686 6402	4439.0		0.297 8374	1925.2		
9.5	0.671 4975	5235.7	3677	0.691 9423	4397.8	3000	0.300 1369	1907.3	1305	
10.0	+0.665 1904	5276.0		+0.697 1948	4356.3		+0.302 4148	1889.2		
10.5	0.658 8352	5315.9	-3732	0.702 3973	4314.5	+2943	0.304 6710	1871.1	+1280	
11.0	0.652 4324	5355.4		0.707 5494	4272.3		0.306 9055	1852.9		
11.5	0.645 9823	5394.5	3786	0.712 6507	4229.9	2886	0.309 1180	1834.5	1255	
12.0	0.639 4856	5433.2		0.717 7009	4187.1		0.311 3082	1815.9		
12.5	0.632 9427	5471.6	3840	0.722 6995	4143.9	2828	0.313 4761	1797.2	1230	
13.0	+0.626 3540	5509.5		+0.727 6462	4100.5		+0.315 6215	1778.4		
13.5	0.619 7201	5546.9	-3892	0.732 5406	4056.8	+2769	0.317 7442	1759.4	+1204	
14.0	0.613 0415	5584.0		0.737 3823	4012.7		0.319 8440	1740.3		
14.5	0.606 3186	5620.7	3943	0.742 1710	3968.4	2709	0.321 9209	1721.2	1178	
15.0	0.599 5521	5656.9		0.746 9063	3923.8		0.323 9748	1701.9		
15.5	0.592 7425	5692.6	3993	0.751 5879	3878.9	2648	0.326 0054	1682.4	1152	
16.0	+0.585 8902	5727.9		+0.756 2155	3833.7		+0.328 0125	1662.8		
16.5	0.578 9958	5762.7	-4042	0.760 7887	3788.2	+2587	0.329 9960	1643.1	+1125	
17.0	0.572 0599	5797.1		0.765 3071	3742.4		0.331 9558	1623.3		
17.5	0.565 0829	5831.1	4090	0.769 7705	3696.4	2525	0.333 8918	1603.3	1098	
18.0	0.558 0655	5864.5		0.774 1785	3650.1		0.335 8038	1583.3		
18.5	0.551 0082	5897.5	4137	0.778 5308	3603.6	2462	0.337 6918	1563.2	1071	
19.0	+0.543 9116	5930.1		+0.782 8271	3556.9		+0.339 5555	1542.9		
19.5	0.536 7762	5962.2	-4182	0.787 0672	3509.9	+2398	0.341 3948	1522.6	+1043	
20.0	0.529 6026	5993.8		0.791 2507	3462.6		0.343 2096	1502.1		
20.5	0.522 3913	6024.9	4226	0.795 3774	3415.1	2334	0.344 9998	1481.6	1015	
21.0	0.515 1430	6055.5		0.799 4470	3367.5		0.346 7653	1460.9		
21.5	0.507 8582	6085.7	4269	0.803 4593	3319.6	2269	0.348 5060	1440.2	987	
22.0	+0.500 5374	6115.4		+0.807 4140	3271.5		+0.350 2217	1419.4		
22.5	0.493 1813	6144.7	-4311	0.811 3109	3223.3	+2203	0.351 9124	1398.4	+959	
23.0	0.485 7903	6173.5		0.815 1498	3174.8		0.353 5778	1377.3		
23.5	0.478 3651	6201.8	4351	0.818 9304	3126.1	2137	0.355 2179	1356.2	930	
24.0	0.470 9062	6229.6		0.822 6524	3077.3		0.356 8327	1335.1		
24.5	0.463 4142	6256.9	4390	0.826 3158	3028.3	2070	0.358 4221	1313.9	901	



## Mittleres Äquinoktium 1923.0

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1923.0								
	X	Stünd- liche Ände- rung  Einheit: 7. Dez.	Re- duk- tion auf 1925.0	Y	Stünd- liche Ände- rung  Einheit: 7. Dez.	Re- duk- tion auf 1925.0	Z	Stünd- liche Ände- rung  Einheit: 7. Dez.	Re- duk- tion auf 1925.0
<b>1923</b>									
<b>Mai</b>									
24.5	+0.463 4142	6256.9	-4390	+0.826 3158	3028.3	+2070	+0.358 4221	1313.9	+ 901
25.0	0.455 8897	6283.8		0.829 9203	2979.2		0.359 9859	1292.5	
25.5	0.448 3332	6310.2	4428	0.833 4658	2929.9	2003	0.361 5241	1271.1	871
26.0	0.440 7453	6336.2		0.836 9520	2880.4		0.363 0366	1249.7	
26.5	0.433 1265	6361.8	4465	0.840 3787	2830.8	1935	0.364 5233	1228.2	841
27.0	0.425 4773	6386.9		0.843 7459	2781.1		0.365 9842	1206.6	
27.5	+0.417 7982	6411.5	-4500	+0.847 0533	2731.2	+1867	+0.367 4191	1184.9	+ 811
28.0	0.410 0898	6435.7		0.850 3008	2681.2		0.368 8279	1163.1	
28.5	0.402 3526	6459.5	4534	0.853 4881	2631.0	1798	0.370 2106	1141.3	781
29.0	0.394 5872	6482.8		0.856 6151	2580.7		0.371 5671	1119.5	
29.5	0.386 7940	6505.7	4567	0.859 6817	2530.3	1728	0.372 8973	1097.6	751
30.0	0.378 9736	6528.2		0.862 6877	2479.7		0.374 2012	1075.6	
30.5	+0.371 1264	6550.3	-4599	+0.865 6328	2428.9	+1658	+0.375 4787	1053.6	+ 721
31.0	0.363 2529	6572.0		0.868 5169	2377.9		0.376 7297	1031.4	
31.5	0.355 3536	6593.3	4629	0.871 3397	2326.8	1587	0.377 9541	1009.2	690
<b>Juni</b>									
1.0	0.347 4291	6614.1		0.874 1012	2275.6		0.379 1518	986.9	
1.5	0.339 4799	6634.4	4658	0.876 8011	2224.2	1516	0.380 3227	964.6	659
2.0	0.331 5066	6654.4		0.879 4393	2172.7		0.381 4668	942.2	
2.5	+0.323 5095	6673.9	-4686	+0.882 0155	2121.0	+1445	+0.382 5840	919.8	+ 628
3.0	0.315 4893	6693.0		0.884 5295	2069.1		0.383 6742	897.2	
3.5	0.307 4464	6711.7	4712	0.886 9811	2017.0	1373	0.384 7373	874.6	597
4.0	0.299 3815	6729.8		0.889 3702	1964.8		0.385 7733	852.0	
4.5	0.291 2951	6747.5	4737	0.891 6965	1912.4	1301	0.386 7821	829.3	565
5.0	0.283 1877	6764.7		0.893 9599	1859.9		0.387 7636	806.5	
5.5	+0.275 0599	6781.5	-4761	+0.896 1601	1807.2	+1228	+0.388 7176	783.6	+ 534
6.0	0.266 9123	6797.8		0.898 2970	1754.3		0.389 6441	760.6	
6.5	0.258 7454	6813.6	4783	0.900 3704	1701.3	1155	0.390 5431	737.7	502
7.0	0.250 5599	6828.9		0.902 3802	1648.2		0.391 4145	714.7	
7.5	0.242 3563	6843.8	4804	0.904 3262	1595.0	1082	0.392 2583	691.6	470
8.0	0.234 1351	6858.1		0.906 2081	1541.6		0.393 0743	668.4	
8.5	+0.225 8970	6872.0	-4824	+0.908 0259	1488.1	+1008	+0.393 8625	645.2	+ 438
9.0	0.217 6426	6885.3		0.909 7794	1434.4		0.394 6228	622.0	
9.5	0.209 3725	6898.1	4842	0.911 4685	1380.7	934	0.395 3552	598.7	406
10.0	0.201 0873	6910.5		0.913 0930	1326.8		0.396 0596	575.4	
10.5	0.192 7875	6922.3	4859	0.914 6528	1272.8	860	0.396 7360	552.0	374
11.0	0.184 4739	6933.6		0.916 1477	1218.7		0.397 3843	528.5	
11.5	+0.176 1470	6944.4	-4875	+0.917 5777	1164.6	+ 786	+0.398 0044	504.9	+ 342
12.0	0.167 8074	6954.7		0.918 9426	1110.3		0.398 5962	481.4	
12.5	0.159 4557	6964.5	4889	0.920 2423	1055.9	711	0.399 1598	457.9	309
13.0	0.151 0926	6973.8		0.921 4767	1001.4		0.399 6952	434.3	
13.5	0.142 7187	6982.6	4902	0.922 6457	946.9	637	0.400 2022	410.7	277
14.0	0.134 3346	6990.9		0.923 7493	892.3		0.400 6809	387.1	



## Mittleres Äquinoktium 1923.0

Mittlere Zeit Greenwich	X	Stünd- liche Ände- rung	Re- duktion auf 1925.0	Y	Stünd- liche Ände- rung	Re- duktion auf 1925.0	Z	Stünd- liche Ände- rung	Re- duktion auf 1925.0	
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.		
1923										
Juni 14.0	+0.134 3346	6990.9		+0.923 7493	892.3		+0.400 6809	387.1		
14.5	0.125 9409	6998.5	-4913	0.924 7872	837.6	+ 562	0.401 1312	363.4	+ 244	
15.0	0.117 5384	7005.6		0.925 7595	782.9		0.401 5531	339.7		
15.5	0.109 1276	7012.2	4923	0.926 6662	728.2	487	0.401 9465	316.0	212	
16.0	0.100 7092	7018.3		0.927 5071	673.3		0.402 3114	292.2		
16.5	0.092 2838	7023.9	4931	0.928 2822	618.4	412	0.402 6478	268.4	179	
17.0	+0.083 8521	7028.9		+0.928 9914	563.6		+0.402 9556	244.7		
17.5	0.075 4147	7033.4	-4938	0.929 6348	508.7	+ 337	0.403 2350	220.9	+ 146	
18.0	0.066 9722	7037.3		0.930 2123	453.8		0.403 4858	197.1		
18.5	0.058 5253	7040.8	4944	0.930 7240	399.0	261	0.403 7080	173.3	113	
19.0	0.050 0746	7043.7		0.931 1699	344.1		0.403 9017	149.5		
19.5	0.041 6207	7046.0	4948	0.931 5499	289.2	185	0.404 0669	125.7	81	
20.0	+0.033 1643	7047.9		+0.931 8641	234.4		+0.404 2035	101.9		
20.5	0.024 7059	7049.3	-4951	0.932 1125	179.6	+ 109	0.404 3116	78.2	+ 48	
21.0	0.016 2462	7050.1		0.932 2951	124.8		0.404 3912	54.4		
21.5	+0.007 7858	7050.4	4953	0.932 4119	70.0	+ 33	0.404 4422	30.6	+ 15	
22.0	-0.000 6746	7050.2		0.932 4631	15.2		0.404 4647	6.9		
22.5	0.009 1345	7049.6	4953	0.932 4486	39.5	- 42	0.404 4587	16.8	- 18	
23.0	-0.017 5935	7048.5		+0.932 3685	94.1		+0.404 4243	40.6		
23.5	0.026 0508	7046.9	-4952	0.932 2229	148.6	- 118	0.404 3614	64.3	- 51	
24.0	0.034 5059	7044.8		0.932 0119	203.0		0.404 2701	88.0		
24.5	0.042 9582	7042.3	4949	0.931 7356	257.4	193	0.404 1504	111.6	84	
25.0	0.051 4072	7039.3		0.931 3940	311.9		0.404 0024	135.2		
25.5	0.059 8523	7035.8	4945	0.930 9871	366.3	269	0.403 8260	158.8	117	
26.0	-0.068 2928	7031.8		+0.930 5149	420.6		+0.403 6213	182.4		
26.5	0.076 7283	7027.4	-4940	0.929 9777	474.8	- 344	0.403 3882	206.0	- 149	
27.0	0.085 1584	7022.6		0.929 3754	529.0		0.403 1269	229.5		
27.5	0.093 5824	7017.3	4933	0.928 7080	583.2	419	0.402 8374	253.0	182	
28.0	0.101 9997	7011.5		0.927 9757	637.3		0.402 5196	276.5		
28.5	0.110 4099	7005.3	4925	0.927 1785	691.4	494	0.402 1736	300.0	215	
29.0	-0.118 8124	6998.7		+0.926 3164	745.4		+0.401 7995	323.5		
29.5	0.127 2067	6991.7	-4916	0.925 3896	799.4	- 569	0.401 3973	346.9	- 248	
30.0	0.135 5923	6984.2		0.924 3979	853.4		0.400 9669	370.3		
30.5	0.143 9685	6976.2	4905	0.923 3415	907.3	644	0.400 5084	393.7	280	
Juli 1.0	0.152 3349	6967.8		0.922 2204	961.2		0.400 0219	417.1		
1.5	0.160 6909	6958.8	4893	0.921 0347	1015.1	719	0.399 5072	440.5	313	
2.0	-0.169 0358	6949.4		+0.919 7843	1068.9		+0.398 9645	463.9		
2.5	0.177 3692	6939.5	-4879	0.918 4694	1122.6	- 793	0.398 3938	487.2	- 345	
3.0	0.185 6904	6929.2		0.917 0900	1176.4		0.397 7952	510.5		
3.5	0.193 9990	6918.4	4864	0.915 6461	1230.1	868	0.397 1686	533.8	378	
4.0	0.202 2944	6907.1		0.914 1379	1283.7		0.396 5141	557.1		
4.5	0.210 5758	6895.3	4847	0.912 5654	1337.2	942	0.395 8316	580.3	410	

## Mittleres Äquinoktium 1923.0

Mittlere Zeit Greenwich	X	Stünd- liche Ände- rung  Einheit: 7. Dez.	Re- duktion auf 1925.0	Y	Stünd- liche Ände- rung  Einheit: 7. Dez.	Re- duktion auf 1925.0	Z	Stünd- liche Ände- rung  Einheit: 7. Dez.	Re- duktion auf 1925.0
1923									
Juli 4.5	0.210 5758	6895.3	-4847	+0.912 5654	1337.2	- 942	+0.395 8316	580.3	- 410
5.0	0.218 8428	6883.0		0.910 9287	1390.7		0.395 1213	603.5	
5.5	0.227 0948	6870.2	4829	0.909 2278	1444.1	1016	0.394 3832	626.6	442
6.0	0.235 3312	6857.0		0.907 4629	1497.5		0.393 6174	649.7	
6.5	0.243 5514	6843.2	4810	0.905 6339	1550.8	1090	0.392 8238	672.9	474
7.0	0.251 7547	6829.0		0.903 7411	1603.9		0.392 0024	696.0	
7.5	-0.259 9406	6814.2	-4790	+0.901 7845	1657.0	-1163	+0.391 1534	718.9	- 506
8.0	0.268 1085	6798.9		0.899 7642	1710.0		0.390 2770	741.8	
8.5	0.276 2578	6783.2	4768	0.897 6804	1763.0	1236	0.389 3730	764.8	538
9.0	0.284 3880	6767.0		0.895 5331	1815.8		0.388 4415	787.7	
9.5	0.292 4984	6750.2	4745	0.893 3225	1868.5	1309	0.387 4825	810.5	570
10.0	0.300 5883	6732.9		0.891 0487	1921.1		0.386 4962	833.3	
10.5	-0.308 6572	6715.2	-4721	+0.888 7118	1973.6	-1381	+0.385 4825	856.1	- 601
11.0	0.316 7046	6697.0		0.886 3121	2025.9		0.384 4416	878.8	
11.5	0.324 7298	6678.2	4695	0.883 8496	2078.2	1453	0.383 3734	901.4	632
12.0	0.332 7321	6658.9		0.881 3245	2130.3		0.382 2783	923.9	
12.5	0.340 7110	6639.1	4668	0.878 7369	2182.3	1524	0.381 1561	946.4	663
13.0	0.348 6658	6618.8		0.876 0871	2234.0		0.380 0069	968.9	
13.5	-0.356 5960	6598.0	-4640	+0.873 3753	2285.6	-1595	+0.378 8308	991.2	- 694
14.0	0.364 5009	6576.7		0.870 6016	2337.1		0.377 6279	1013.5	
14.5	0.372 3800	6555.0	4610	0.867 7663	2388.4	1665	0.376 3983	1035.8	724
15.0	0.380 2326	6532.7		0.864 8695	2439.5		0.375 1421	1057.9	
15.5	0.388 0582	6509.4	4579	0.861 9115	2490.4	1735	0.373 8593	1080.0	755
16.0	0.395 8562	6486.6		0.858 8925	2541.2		0.372 5501	1101.9	
16.5	-0.403 6259	6462.8	-4546	+0.855 8127	2591.7	-1805	+0.371 2145	1123.8	- 785
17.0	0.411 3668	6438.6		0.852 6725	2642.0		0.369 8528	1145.7	
17.5	0.419 0783	6413.9	4512	0.849 4720	2692.1	1874	0.368 4649	1167.4	815
18.0	0.426 7599	6388.7		0.846 2116	2741.9		0.367 0511	1189.0	
18.5	0.434 4110	6363.0	4477	0.842 8915	2791.5	1943	0.365 6114	1210.6	845
19.0	0.442 0310	6336.9		0.839 5120	2840.9		0.364 1458	1232.0	
19.5	-0.449 6194	6310.3	-4441	+0.836 0734	2890.0	-2011	+0.362 6546	1253.3	- 875
20.0	0.457 1756	6283.3		0.832 5760	2939.0		0.361 1378	1274.6	
20.5	0.464 6992	6256.0	4403	0.829 0199	2987.7	2078	0.359 5956	1295.7	904
21.0	0.472 1898	6228.2		0.825 4056	3036.1		0.358 0282	1316.7	
21.5	0.479 6467	6199.9	4364	0.821 7333	3084.3	2145	0.356 4355	1337.7	933
22.0	0.487 0693	6171.2		0.818 0033	3132.2		0.354 8177	1358.6	
22.5	-0.494 4573	6142.1	-4324	+0.814 2160	3179.9	-2211	+0.353 1750	1379.3	- 962
23.0	0.501 8101	6112.6		0.810 3716	3227.4		0.351 5076	1399.8	
23.5	0.509 1273	6082.7	4283	0.806 4704	3274.6	2276	0.349 8155	1420.3	990
24.0	0.516 4085	6052.5		0.802 5127	3321.6		0.348 0988	1440.8	
24.5	0.523 6531	6021.8	4241	0.798 4987	3368.3	2341	0.346 3577	1461.1	1018
25.0	0.530 8607	5990.7		0.794 4288	3414.8		0.344 5922	1481.3	



Mittlere Zeit Greenwich		Mittleres Äquinoktium 1923.0								
		X	Stünd- liche Ände- rung Einheit: 7. Dez.	Re- duk- tion auf 1925.0	Y	Stünd- liche Ände- rung Einheit: 7. Dez.	Re- duk- tion auf 1925.0	Z	Stünd- liche Ände- rung Einheit: 7. Dez.	Re- duk- tion auf 1925.0
1923										
Juli	25.0	-0.530 8607	5990.7		+0.794 4288	3414.8		+0.344 5922	1481.3	
	25.5	0.538 0307	5959.3	-4198	0.790 3032	3461.1	-2405	0.342 8025	1501.4	-1046
	26.0	0.545 1628	5927.5		0.786 1222	3507.2		0.340 9888	1521.4	
	26.5	0.552 2566	5895.3	4153	0.781 8861	3553.0	2469	0.339 1512	1541.3	1074
	27.0	0.559 3115	5862.8		0.777 5952	3598.5		0.337 2897	1561.1	
	27.5	0.566 3271	5829.8	4107	0.773 2497	3643.9	2532	0.335 4045	1580.8	1101
	28.0	-0.573 3029	5796.5		+0.768 8499	3689.1		+0.333 4957	1600.4	
	28.5	0.580 2385	5762.8	-4060	0.764 3960	3734.0	-2594	0.331 5635	1619.9	-1128
	29.0	0.587 1334	5728.7		0.759 8884	3778.7		0.329 6079	1639.3	
	29.5	0.593 9872	5694.2	4012	0.755 3273	3823.2	2655	0.327 6291	1658.6	1155
	30.0	0.600 7993	5659.3		0.750 7130	3867.4		0.325 6273	1677.8	
	30.5	0.607 5693	5623.9	3962	0.746 0457	3911.4	2716	0.323 6025	1696.9	1181
	31.0	-0.614 2966	5588.2		+0.741 3258	3955.2		+0.321 5549	1715.9	
	31.5	0.620 9809	5552.2	-3912	0.736 5535	3998.7	-2776	0.319 4845	1734.8	-1207
Aug.	1.0	0.627 6217	5515.7		0.731 7291	4042.0		0.317 3915	1753.5	
	1.5	0.634 2184	5478.8	3860	0.726 8529	4085.0	2835	0.315 2760	1772.2	1233
	2.0	0.640 7706	5441.5		0.721 9252	4127.8		0.313 1383	1790.7	
	2.5	0.647 2778	5403.8	3808	0.716 9463	4170.3	2893	0.310 9784	1809.1	1258
	3.0	-0.653 7395	5365.6		+0.711 9165	4212.6		+0.308 7964	1827.4	
	3.5	0.660 1552	5327.1	-3754	0.706 8361	4254.6	-2951	0.306 5925	1845.7	-1283
	4.0	0.666 5245	5288.3		0.701 7055	4296.4		0.304 3669	1863.7	
	4.5	0.672 8469	5249.0	3699	0.696 5249	4337.8	3008	0.302 1196	1881.7	1308
	5.0	0.679 1219	5209.3		0.691 2948	4379.0		0.299 8508	1899.6	
	5.5	0.685 3490	5169.1	3643	0.686 0154	4419.9	3064	0.297 5607	1917.3	1332
	6.0	-0.691 5277	5128.6		+0.680 6871	4460.5		+0.295 2495	1934.8	
	6.5	0.697 6575	5087.7	-3586	0.675 3102	4500.8	-3119	0.292 9172	1952.3	-1356
	7.0	0.703 7380	5046.4		0.669 8851	4540.9		0.290 5639	1969.7	
	7.5	0.709 7687	5004.8	3528	0.664 4121	4580.7	3173	0.288 1899	1986.9	1380
	8.0	0.715 7491	4962.7		0.658 8915	4620.1		0.285 7954	2003.9	
	8.5	0.721 6788	4920.2	3469	0.653 3238	4659.2	3226	0.283 3806	2020.8	1403
	9.0	-0.727 5573	4877.2		+0.647 7095	4698.0		+0.280 9455	2037.6	
	9.5	0.733 3840	4833.9	-3410	0.642 0488	4736.5	-3278	0.278 4903	2054.3	-1426
	10.0	0.739 1585	4790.2		0.636 3420	4774.7		0.276 0152	2070.8	
	10.5	0.744 8804	4746.1	3350	0.630 5897	4812.4	3329	0.273 5203	2087.2	1448
	11.0	0.750 5491	4701.6		0.624 7923	4849.8		0.271 0059	2103.5	
	11.5	0.756 1642	4656.8	3288	0.618 9502	4886.9	3380	0.268 4720	2119.6	1470
	12.0	-0.761 7253	4611.6		+0.613 0637	4923.7		+0.265 9190	2135.4	
	12.5	0.767 2319	4566.0	-3225	0.607 1333	4960.1	-3429	0.263 3470	2151.1	-1492
	13.0	0.772 6836	4520.1		0.601 1595	4996.1		0.260 7563	2166.7	
	13.5	0.778 0800	4473.8	3161	0.595 1428	5031.6	3478	0.258 1469	2182.2	1513
	14.0	0.783 4206	4427.1		0.589 0837	5066.8		0.255 5191	2197.5	
	14.5	0.788 7050	4380.1	3096	0.582 9825	5101.7	3526	0.252 8730	2212.6	1534



## Mittleres Äquinoktium 1923.0

Mittlere Zeit Greenwich	X		Stünd- liche Ände- rung	Re- duk- tion auf 1925.0	Y		Stünd- liche Ände- rung	Re- duk- tion auf 1925.0	Z		Stünd- liche Ände- rung	Re- duk- tion auf 1925.0
			Einheit: 7. Dez.				Einheit: 7. Dez.				Einheit: 7. Dez.	
1923												
Aug. 14.5	—0.788	7050	4380.1	—3096	+0.582	9825	5101.7	—3526	+0.252	8730	2212.6	—1534
15.0	0.793	9327	4332.7		0.576	8398	5136.1		0.250	2088	2227.6	
15.5	0.799	1034	4285.1	3031	0.570	6560	5170.1	3572	0.247	5268	2242.3	1554
16.0	0.804	2168	4237.2		0.564	4316	5203.8		0.244	8273	2256.9	
16.5	0.809	2725	4188.9	2964	0.558	1671	5237.0	3618	0.242	1103	2271.3	1574
17.0	0.814	2700	4140.3		0.551	8631	5269.7		0.239	3761	2285.6	
17.5	—0.819	2091	4091.5	—2897	+0.545	5199	5302.1	—3662	+0.236	6249	2299.7	—1593
18.0	0.824	0894	4042.4		0.539	1380	5334.2		0.233	8570	2313.6	
18.5	0.828	9107	3993.0	2829	0.532	7180	5365.8	3705	0.231	0725	2327.3	1612
19.0	0.833	6725	3943.3		0.526	2603	5397.0		0.228	2715	2340.9	
19.5	0.838	3746	3893.4	2760	0.519	7654	5427.8	3747	0.225	4543	2354.3	1630
20.0	0.843	0166	3843.2		0.513	2338	5458.2		0.222	6212	2367.5	
20.5	—0.847	5983	3792.8	—2690	+0.506	6659	5488.2	—3789	+0.219	7723	2380.6	—1648
21.0	0.852	1193	3742.2		0.500	0622	5517.9		0.216	9078	2393.5	
21.5	0.856	5794	3691.3	2620	0.493	4231	5547.2	3829	0.214	0280	2406.2	1665
22.0	0.860	9783	3640.2		0.486	7492	5576.0		0.211	1330	2418.8	
22.5	0.865	3157	3588.8	2549	0.480	0409	5604.5	3868	0.208	2230	2431.2	1682
23.0	0.869	5912	3537.1		0.473	2986	5632.6		0.205	2982	2443.4	
23.5	—0.873	8047	3485.3	—2477	+0.466	5228	5660.3	—3906	+0.202	3589	2455.5	—1698
24.0	0.877	9559	3433.3		0.459	7140	5687.7		0.199	4052	2467.3	
24.5	0.882	0445	3381.0	2404	0.452	8725	5714.7	3943	0.196	4374	2479.0	1714
25.0	0.886	0701	3328.4		0.445	9989	5741.3		0.193	4556	2490.6	
25.5	0.890	0326	3275.6	2331	0.439	0935	5767.6	3978	0.190	4600	2502.0	1730
26.0	0.893	9316	3222.6		0.432	1569	5793.4		0.187	4508	2513.2	
26.5	—0.897	7668	3169.4	—2257	+0.425	1895	5818.9	—4013	+0.184	4283	2524.3	—1745
27.0	0.901	5380	3116.0		0.418	1917	5844.0		0.181	3926	2535.2	
27.5	0.905	2450	3062.3	2183	0.411	1640	5868.8	4046	0.178	3439	2545.9	1759
28.0	0.908	8873	3008.3		0.404	1068	5893.2		0.175	2824	2556.5	
28.5	0.912	4647	2954.1	2108	0.397	0206	5917.1	4078	0.172	2084	2566.9	1773
29.0	0.915	9770	2899.7		0.389	9059	5940.7		0.169	1220	2577.1	
29.5	—0.919	4239	2845.1	—2032	+0.382	7631	5963.9	—4109	+0.166	0234	2587.1	—1787
30.0	0.922	8051	2790.2		0.375	5927	5986.7		0.162	9129	2597.0	
30.5	0.926	1202	2735.0	1956	0.368	3951	6009.2	4139	0.159	7906	2606.7	1800
31.0	0.929	3691	2679.7		0.361	1708	6031.3		0.156	6568	2616.2	
31.5	0.932	5514	2624.1	1879	0.353	9203	6052.9	4168	0.153	5117	2625.6	1812
Sept. 1.0	0.935	6668	2568.2		0.346	6441	6074.0		0.150	3554	2634.8	
1.5	—0.938	7151	2512.2	—1802	+0.339	3428	6094.8	—4196	+0.147	1882	2643.8	—1824
2.0	0.941	6961	2456.0		0.332	0168	6115.2		0.144	0104	2652.6	
2.5	0.944	6094	2399.5	1724	0.324	6665	6135.2	4222	0.140	8221	2661.2	1836
3.0	0.947	4547	2342.7		0.317	2925	6154.8		0.137	6235	2669.6	
3.5	0.950	2319	2285.8	1645	0.309	8952	6173.9	4247	0.134	4149	2677.9	1847
4.0	0.952	9406	2228.7		0.302	4753	6192.6		0.131	1966	2686.0	

Mittleres Äquinoktium 1923.0									
Mittlere Zeit Greenwich	X	Stünd- liche Ände- rung	Re- duktion auf 1925.0	Y	Stünd- liche Ände- rung	Re- duktion auf 1925.0	Z	Stünd- liche Ände- rung	Re- duktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1923									
Sept. 4.0	-0.952 9406	2228.7		+0.302 4753	6192.6		+0.131 1966	2686.0	
4.5	0.955 5806	2171.3	-1566	0.295 0332	6210.8	-4271	0.127 9686	2694.0	-1858
5.0	0.958 1517	2113.8		0.287 5694	6228.7		0.124 7312	2701.7	
5.5	0.960 6536	2056.0	1487	0.280 0845	6246.1	4294	0.121 4847	2709.1	1868
6.0	0.963 0861	1998.0		0.272 5790	6263.1		0.118 2293	2716.4	
6.5	0.965 4488	1939.8	1407	0.265 0534	6279.6	4315	0.114 9653	2723.6	1877
7.0	-0.967 7416	1881.5		+0.257 5082	6295.6		+0.111 6928	2730.5	
7.5	0.969 9642	1822.9	-1327	0.249 9441	6311.2	-4335	0.108 4121	2737.2	-1886
8.0	0.972 1164	1764.1		0.242 3616	6326.2		0.105 1235	2743.8	
8.5	0.974 1979	1705.1	1246	0.234 7613	6340.8	4354	0.101 8271	2750.1	1894
9.0	0.976 2085	1645.9		0.227 1437	6354.9		0.098 5233	2756.2	
9.5	0.978 1481	1586.6	1165	0.219 5095	6368.6	4372	0.095 2122	2762.2	1901
10.0	-0.980 0164	1527.2		+0.211 8592	6381.8		+0.091 8942	2767.9	
10.5	0.981 8133	1467.6	-1084	0.204 1934	6394.5	-4388	0.088 5694	2773.4	-1908
11.0	0.983 5386	1407.8		0.196 5127	6406.6		0.085 2382	2778.6	
11.5	0.985 1920	1347.9	1002	0.188 8177	6418.2	4403	0.081 9008	2783.7	1915
12.0	0.986 7735	1287.9		0.181 1091	6429.4		0.078 5575	2788.5	
12.5	0.988 2829	1227.8	920	0.173 3874	6440.0	4417	0.075 2085	2793.2	1921
13.0	-0.989 7201	1167.6		+0.165 6533	6450.1		+0.071 8540	2797.6	
13.5	0.991 0850	1107.3	-838	0.157 9073	6459.7	-4430	0.068 4944	2801.7	-1926
14.0	0.992 3775	1046.9		0.150 1501	6468.8		0.065 1299	2805.7	
14.5	0.993 5974	986.4	755	0.142 3823	6477.4	4441	0.061 7608	2809.5	1931
15.0	0.994 7448	925.9		0.134 6044	6485.6		0.058 3872	2813.1	
15.5	0.995 8196	865.3	672	0.126 8171	6493.2	4451	0.055 0094	2816.5	1935
16.0	-0.996 8216	804.7		+0.119 0209	6500.3		+0.051 6278	2819.6	
16.5	0.997 7509	744.1	-589	0.111 2165	6507.0	-4460	0.048 2426	2822.5	-1939
17.0	0.998 6075	683.4		0.103 4043	6513.2		0.044 8540	2825.2	
17.5	0.999 3911	622.6	506	0.095 5850	6518.9	4467	0.041 4622	2827.7	1942
18.0	1.000 1018	561.9		0.087 7592	6524.1		0.038 0676	2830.0	
18.5	1.000 7397	501.2	423	0.079 9274	6528.9	4473	0.034 6703	2832.0	1945
19.0	-1.001 3046	440.4		+0.072 0901	6533.2		+0.031 2707	2833.9	
19.5	1.001 7965	379.5	-340	0.064 2479	6537.0	-4478	0.027 8688	2835.7	-1947
20.0	1.002 2155	318.7		0.056 4014	6540.4		0.024 4650	2837.2	
20.5	1.002 5615	257.9	257	0.048 5510	6543.4	4481	0.021 0596	2838.4	1949
21.0	1.002 8345	197.0		0.040 6974	6545.8		0.017 6528	2839.5	
21.5	1.003 0344	136.1	174	0.032 8412	6547.8	4483	0.014 2448	2840.4	1950
22.0	-1.003 1612	75.2		+0.024 9828	6549.4		+0.010 8358	2841.1	
22.5	1.003 2149	14.3	-90	0.017 1228	6550.6	-4484	0.007 4261	2841.6	-1950
23.0	1.003 1955	46.6		0.009 2616	6551.3		0.004 0159	2842.0	
23.5	1.003 1030	107.5	7	+0.001 3998	6551.6	4484	+0.000 6054	2842.1	1950
24.0	1.002 9374	168.5		-0.006 4620	6551.4		-0.002 8050	2842.0	
24.5	1.002 6986	229.5	+77	0.014 3233	6550.7	4482	0.006 2152	2841.7	1949



## Mittleres Äquinoktium 1923.0

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1923.0									
	X	Stündliche Änderung	Re- duktion auf 1925.0	Y	Stündliche Änderung	Re- duktion auf 1925.0	Z	Stündliche Änderung	Re- duktion auf 1925.0	
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.		
<b>1923</b>										
Sept. 24.5	-1.002 6986	229.5	+ 77	-0.014 3233	6550.7	-4482	-0.006 2152	2841.7	-1949	
25.0	1.002 3866	290.5		0.022 1836	6549.6		0.009 6250	2841.2		
25.5	1.002 0015	351.4	160	0.030 0423	6548.1	4479	0.013 0341	2840.5	1947	
26.0	1.001 5432	412.4		0.037 8988	6546.1		0.016 4422	2839.6		
26.5	1.001 0116	473.5	244	0.045 7527	6543.7	4474	0.019 8492	2838.6	1945	
27.0	1.000 4068	534.5		0.053 6034	6540.7		0.023 2548	2837.3		
27.5	-0.999 7288	595.5	+ 327	-0.061 4503	6537.3	-4468	-0.026 6587	2835.8	-1943	
28.0	0.998 9776	656.5		0.069 2929	6533.5		0.030 0606	2834.1		
28.5	0.998 1531	717.6	411	0.077 1307	6529.3	4461	0.033 4604	2832.2	1940	
29.0	0.997 2554	778.6		0.084 9630	6524.6		0.036 8579	2830.1		
29.5	0.996 2845	839.6	494	0.092 7894	6519.4	4453	0.040 2527	2827.8	1936	
30.0	0.995 2404	900.6		0.100 6093	6513.7		0.043 6446	2825.3		
30.5	-0.994 1231	961.6	+ 577	-0.108 4221	6507.5	-4443	-0.047 0334	2822.7	-1932	
Okt. 1.0	0.992 9326	1022.6		0.116 2272	6500.9		0.050 4189	2819.8		
1.5	0.991 6689	1083.6	660	0.124 0241	6493.8	4432	0.053 8008	2816.7	1927	
2.0	0.990 3321	1144.5		0.131 8121	6486.2		0.057 1789	2813.4		
2.5	0.988 9222	1205.4	743	0.139 5908	6478.2	4420	0.060 5528	2809.8	1922	
3.0	0.987 4392	1266.3		0.147 3596	6469.7		0.063 9224	2806.1		
3.5	-0.985 8832	1327.0	+ 826	-0.155 1179	6460.7	-4406	-0.067 2874	2802.2	-1916	
4.0	0.984 2543	1387.8		0.162 8650	6451.1		0.070 6476	2798.1		
4.5	0.982 5524	1448.7	908	0.170 6004	6441.1	4391	0.074 0027	2793.7	1910	
5.0	0.980 7775	1509.5		0.178 3235	6430.7		0.077 3523	2789.1		
5.5	0.978 9297	1570.1	990	0.186 0338	6419.7	4375	0.080 6963	2784.3	1903	
6.0	0.977 0092	1630.7		0.193 7306	6408.2		0.084 0345	2779.3		
6.5	-0.975 0161	1691.2	+ 1072	-0.201 4133	6396.2	-4357	-0.087 3666	2774.1	-1895	
7.0	0.972 9503	1751.8		0.209 0813	6383.7		0.090 6923	2768.7		
7.5	0.970 8119	1812.2	1153	0.216 7339	6370.6	4338	0.094 0113	2763.1	1887	
8.0	0.968 6011	1872.4		0.224 3706	6357.1		0.097 3234	2757.2		
8.5	0.966 3181	1932.6	1234	0.231 9907	6343.0	4318	0.100 6283	2751.0	1878	
9.0	0.963 9628	1992.8		0.239 5936	6328.4		0.103 9257	2744.7		
9.5	-0.961 5354	2052.8	+ 1315	-0.247 1787	6313.3	-4297	-0.107 2155	2738.2	-1869	
10.0	0.959 0362	2112.6		0.254 7453	6297.7		0.110 4973	2731.4		
10.5	0.956 4653	2172.3	1395	0.262 2929	6281.5	4274	0.113 7709	2724.4	1859	
11.0	0.953 8228	2231.9		0.269 8207	6264.8		0.117 0359	2717.2		
11.5	0.951 1089	2291.2	1475	0.277 3282	6247.6	4250	0.120 2921	2709.8	1848	
12.0	0.948 3239	2350.4		0.284 8148	6229.9		0.123 5393	2702.2		
12.5	-0.945 4680	2409.4	+ 1554	-0.292 2798	6211.7	-4225	-0.126 7772	2694.3	-1837	
13.0	0.942 5415	2468.2		0.299 7227	6193.0		0.130 0055	2686.2		
13.5	0.939 5445	2526.8	1633	0.307 1428	6173.8	4199	0.133 2240	2677.9	1826	
14.0	0.936 4773	2585.2		0.314 5396	6154.2		0.136 4324	2669.4		
14.5	0.933 3402	2643.4	1712	0.321 9126	6134.0	4171	0.139 6305	2660.7	1814	
15.0	0.930 1333	2701.4		0.329 2611	6113.4		0.142 8180	2651.8		



Mittleres Äquinoktium 1923.0									
Mittlere Zeit Greenwich	X	Stünd- liche Ände- rung Einheit: 7. Dez.	Re- duktion auf 1925.0 7. Dez.	Y	Stünd- liche Ände- rung Einheit: 7. Dez.	Re- duktion auf 1925.0 7. Dez.	Z	Stünd- liche Ände- rung Einheit: 7. Dez.	Re- duktion auf 1925.0 7. Dez.
1923									
Okt. 15.0	-0.930 1333	2701.4		-0.329 2611	6113.4		-0.142 8180	2651.8	
15.5	0.926 8570	2759.1	+1790	0.336 5846	6092.3	-4142	0.145 9948	2642.7	-1801
16.0	0.923 5116	2816.6		0.343 8825	6070.8		0.149 1605	2633.4	
16.5	0.920 0973	2873.9	1867	0.351 1543	6048.8	4112	0.152 3149	2623.9	1788
17.0	0.916 6145	2930.9		0.358 3995	6026.4		0.155 4578	2614.2	
17.5	0.913 0633	2987.7	1944	0.365 6176	6003.6	4081	0.158 5889	2604.3	1774
18.0	-0.909 4441	3044.3		-0.372 8080	5980.4		-0.161 7081	2594.2	
18.5	0.905 7571	3100.7	+2020	0.379 9703	5956.7	-4048	0.164 8151	2584.0	-1760
19.0	0.902 0025	3156.9		0.387 1039	5932.6		0.167 9097	2573.6	
19.5	0.898 1807	3212.8	2095	0.394 2083	5908.0	4014	0.170 9916	2562.9	1745
20.0	0.894 2919	3268.5		0.401 2829	5883.0		0.174 0606	2552.1	
20.5	0.890 3364	3323.9	2170	0.408 3273	5857.6	3979	0.177 1165	2541.1	1730
21.0	-0.886 3146	3379.1		-0.415 3410	5831.8		-0.180 1591	2529.9	
21.5	0.882 2266	3434.1	+2244	0.422 3234	5805.6	-3943	0.183 1881	2518.5	-1714
22.0	0.878 0727	3488.9		0.429 2742	5779.0		0.186 2034	2506.9	
22.5	0.873 8533	3543.4	2318	0.436 1928	5751.9	3905	0.189 2047	2495.1	1698
23.0	0.869 5686	3597.7		0.443 0786	5724.4		0.192 1918	2483.2	
23.5	0.865 2190	3651.8	2391	0.449 9312	5696.6	3867	0.195 1644	2471.1	1681
24.0	-0.860 8046	3705.6		-0.456 7502	5668.3		-0.198 1224	2458.8	
24.5	0.856 3257	3759.2	+2463	0.463 5350	5639.6	-3827	0.201 0655	2446.3	-1664
25.0	0.851 7827	3812.5		0.470 2851	5610.5		0.203 9935	2433.7	
25.5	0.847 1758	3865.6	2534	0.477 0000	5580.9	3786	0.206 9063	2420.9	1646
26.0	0.842 5054	3918.4		0.483 6792	5551.0		0.209 8036	2407.9	
26.5	0.837 7717	3971.0	2605	0.490 3222	5520.7	3744	0.212 6852	2394.7	1628
27.0	-0.832 9751	4023.3		-0.496 9286	5489.9		-0.215 5508	2381.3	
27.5	0.828 1158	4075.4	+2675	0.503 4978	5458.7	-3701	0.218 4003	2367.7	-1609
28.0	0.823 1942	4127.2		0.510 0293	5427.1		0.221 2334	2354.0	
28.5	0.818 2106	4178.7	2745	0.516 5227	5395.1	3656	0.224 0499	2340.1	1590
29.0	0.813 1653	4230.0		0.522 9775	5362.7		0.226 8496	2326.0	
29.5	0.808 0586	4281.1	2814	0.529 3931	5329.9	3611	0.229 6323	2311.7	1570
30.0	-0.802 8907	4331.9		-0.535 7691	5296.7		-0.232 3977	2297.3	
30.5	0.797 6621	4382.4	+2881	0.542 1049	5263.0	-3564	0.235 1457	2282.7	-1550
31.0	0.792 3730	4432.6		0.548 4001	5228.9		0.237 8760	2267.9	
31.5	0.787 0239	4482.5	2948	0.554 6541	5194.4	3517	0.240 5885	2252.9	1529
Nov. 1.0	0.781 6151	4532.1		0.560 8665	5159.5		0.243 2829	2237.7	
1.5	0.776 1469	4581.5	3013	0.567 0367	5124.2	3468	0.245 9590	2222.4	1508
2.0	-0.770 6197	4630.6		-0.573 1642	5088.4		-0.248 6166	2206.9	
2.5	0.765 0337	4679.4	+3078	0.579 2486	5052.2	-3419	0.251 2554	2191.2	-1486
3.0	0.759 3894	4727.8		0.585 2894	5015.6		0.253 8753	2175.3	
3.5	0.753 6871	4775.9	3142	0.591 2860	4978.6	3368	0.256 4760	2159.2	1464
4.0	0.747 9273	4823.7		0.597 2379	4941.1		0.259 0573	2143.0	
4.5	0.742 1103	4871.3	3205	0.603 1446	4903.2	3316	0.261 6191	2126.6	1442

Mittleres Äquinoktium 1923.0										
Mittlere Zeit Greenwich	X	Stünd- liche Ände- rung	Re- duktion auf 1925.0	Y	Stünd- liche Ände- rung	Re- duktion auf 1925.0	Z	Stünd- liche Ände- rung	Re- duktion auf 1925.0	
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.		
1923										
Nov. 4.5	-0.742 1105	4871.3	+3205	-0.603 1446	4903.2	-3316	-0.261 6191	2126.6	-1442	
5.0	0.736 2364	4918.5		0.609 0055	4864.9		0.264 1610	2109.9		
5.5	0.730 3062	4965.2	3267	0.614 8202	4826.2	3263	0.266 6828	2093.1	1419	
6.0	0.724 3202	5011.6		0.620 5882	4787.0		0.269 1843	2076.1		
6.5	0.718 2787	5057.6	3328	0.626 3089	4747.4	3209	0.271 6654	2059.0	1396	
7.0	0.712 1821	5103.3		0.631 9818	4707.3		0.274 1259	2041.7		
7.5	-0.706 0309	5148.6	+3388	-0.637 6064	4666.9	-3154	-0.276 5654	2024.2	-1372	
8.0	0.699 8256	5193.5		0.643 1823	4626.1		0.278 9838	2006.5		
8.5	0.693 5666	5238.0	3447	0.648 7090	4584.9	3098	0.281 3809	1988.6	1348	
9.0	0.687 2546	5282.0		0.654 1859	4543.2		0.283 7564	1970.6		
9.5	0.680 8901	5325.5	3505	0.659 6126	4501.2	3042	0.286 1102	1952.4	1323	
10.0	0.674 4735	5368.7		0.664 9886	4458.8		0.288 4421	1934.0		
10.5	-0.668 0053	5411.5	+3562	-0.670 3135	4416.0	-2984	-0.290 7518	1915.5	-1298	
11.0	0.661 4860	5453.8		0.675 5868	4372.9		0.293 0392	1896.8		
11.5	0.654 9163	5495.6	3617	0.680 8082	4329.4	2926	0.295 3041	1878.0	1272	
12.0	0.648 2967	5537.0		0.685 9773	4285.6		0.297 5464	1859.0		
12.5	0.641 6277	5577.9	3672	0.691 0936	4241.4	2866	0.299 7658	1839.9	1246	
13.0	0.634 9098	5618.5		0.696 1566	4196.9		0.301 9622	1820.7		
13.5	-0.628 1436	5658.5	+3725	-0.701 1661	4152.2	-2806	-0.304 1354	1801.3	-1220	
14.0	0.621 3297	5698.0		0.706 1217	4107.1		0.306 2852	1781.7		
14.5	0.614 4686	5737.1	3778	0.711 0231	4061.8	2745	0.308 4114	1762.0	1194	
15.0	0.607 5609	5775.7		0.715 8698	4016.1		0.310 5140	1742.3		
15.5	0.600 6070	5814.0	3829	0.720 6616	3970.2	2683	0.312 5928	1722.4	1167	
16.0	0.593 6074	5851.9		0.725 3981	3923.9		0.314 6476	1702.3		
16.5	-0.586 5627	5889.2	+3879	-0.730 0789	3877.3	-2620	-0.316 6783	1682.1	-1140	
17.0	0.579 4736	5926.0		0.734 7036	3830.5		0.318 6846	1661.8		
17.5	0.572 3404	5962.5	3928	0.739 2720	3783.5	2557	0.320 6665	1641.4	1112	
18.0	0.565 1638	5998.5		0.743 7838	3736.1		0.322 6238	1620.8		
18.5	0.557 9442	6034.1	3976	0.748 2386	3688.5	2492	0.324 5564	1600.1	1084	
19.0	0.550 6822	6069.2		0.752 6361	3640.6		0.326 4641	1579.3		
19.5	-0.543 3784	6103.8	+4022	-0.756 9760	3592.4	-2427	-0.328 3468	1558.4	-1056	
20.0	0.536 0333	6138.0		0.761 2578	3543.9		0.330 2043	1537.4		
20.5	0.528 6473	6171.8	4067	0.765 4813	3495.3	2361	0.332 0366	1516.3	1027	
21.0	0.521 2211	6205.2		0.769 6464	3446.4		0.333 8434	1495.0		
21.5	0.513 7551	6238.0	4111	0.773 7526	3397.2	2295	0.335 6246	1473.6	998	
22.0	0.506 2500	6270.4		0.777 7996	3347.7		0.337 3801	1452.1		
22.5	-0.498 7062	6302.4	+4154	-0.781 7870	3297.9	-2228	-0.339 1097	1430.6	-969	
23.0	0.491 1244	6333.9		0.785 7146	3248.0		0.340 8134	1408.9		
23.5	0.483 5050	6365.0	4195	0.789 5822	3197.8	2160	0.342 4910	1387.1	939	
24.0	0.475 8485	6395.7		0.793 3893	3147.4		0.344 1424	1365.2		
24.5	0.468 1555	6425.9	4235	0.797 1357	3096.7	2091	0.345 7674	1343.1	909	
25.0	0.460 4266	6455.6		0.800 8212	3045.8		0.347 3659	1321.0		



Mittlere Zeit Greenwich	Mittleres Äquinoktium 1923.0								
	X	Stünd- liche Ände- rung	Re- duktion auf 1925.0	Y	Stünd- liche Ände- rung	Re- duktion auf 1925.0	Z	Stünd- liche Ände- rung	Re- duktion auf 1925.0
		Einheit: 7. Dez.				Einheit: 7. Dez.			Einheit: 7. Dez.
1923									
Nov. 25.0	-0.460 4266	6455.6		-0.800 8212	3045.8		-0.347 3659	1321.0	
25.5	0.452 6622	6484.9	+4274	0.804 4455	2994.6	-2022	0.348 9378	1298.8	-879
26.0	0.444 8630	6513.7		0.808 0081	2943.1		0.350 4829	1276.4	
26.5	0.437 0296	6542.0	4312	0.811 5088	2891.4	1952	0.352 0012	1254.0	849
27.0	0.429 1624	6569.9		0.814 9474	2839.5		0.353 4926	1231.5	
27.5	0.421 2620	6597.3	4348	0.818 3236	2787.4	1882	0.354 9568	1208.8	818
28.0	-0.413 3290	6624.3		-0.821 6371	2735.0		-0.356 3937	1186.1	
28.5	0.405 3639	6650.7	+4383	0.824 8875	2682.4	-1811	0.357 8033	1163.3	-787
29.0	0.397 3674	6676.7		0.828 0747	2629.5		0.359 1855	1140.4	
29.5	0.389 3399	6702.3	4416	0.831 1983	2576.4	1739	0.360 5401	1117.3	756
30.0	0.381 2821	6727.3		0.834 2579	2523.0		0.361 8669	1094.1	
30.5	0.373 1946	6751.9	4448	0.837 2534	2469.4	1667	0.363 1658	1070.8	725
Dez. 1.0	-0.365 0778	6776.0		-0.840 1845	2415.6		-0.364 4368	1047.5	
1.5	0.356 9324	6799.5	+4479	0.843 0509	2361.6	-1594	0.365 6797	1024.1	-693
2.0	0.348 7591	6822.6		0.845 8523	2307.3		0.366 8945	1000.6	
2.5	0.340 5584	6845.1	4508	0.848 5884	2252.8	1521	0.368 0810	976.9	661
3.0	0.332 3310	6867.2		0.851 2588	2198.0		0.369 2390	953.1	
3.5	0.324 0774	6888.7	4536	0.853 8634	2143.0	1447	0.370 3685	929.3	629
4.0	-0.315 7984	6909.6		-0.856 4020	2087.9		-0.371 4694	905.4	
4.5	0.307 4946	6930.0	+4563	0.858 8742	2032.5	-1373	0.372 5415	881.4	-597
5.0	0.299 1665	6949.9		0.861 2798	1976.8		0.373 5847	857.3	
5.5	0.290 8149	6969.2	4588	0.863 6185	1921.0	1298	0.374 5990	833.1	564
6.0	0.282 4406	6987.9		0.865 8901	1865.0		0.375 5842	808.8	
6.5	0.274 0441	7006.1	4612	0.868 0943	1808.8	1223	0.376 5402	784.5	532
7.0	-0.265 6262	7023.7		-0.870 2310	1752.4		-0.377 4670	760.1	
7.5	0.257 1875	7040.7	+4634	0.872 3000	1695.8	-1148	0.378 3645	735.6	-499
8.0	0.248 7287	7057.1		0.874 3010	1639.1		0.379 2325	711.0	
8.5	0.240 2506	7072.9	4655	0.876 2339	1582.3	1073	0.380 0710	686.4	466
9.0	0.231 7539	7088.2		0.878 0985	1525.3		0.380 8799	661.7	
9.5	0.223 2392	7102.8	4674	0.879 8946	1468.2	997	0.381 6592	637.0	433
10.0	-0.214 7074	7116.8		-0.881 6221	1411.0		-0.382 4087	612.2	
10.5	0.206 1591	7130.2	+4692	0.883 2810	1353.7	-921	0.383 1285	587.4	-400
11.0	0.197 5951	7143.0		0.884 8710	1296.3		0.383 8184	562.5	
11.5	0.189 0160	7155.3	4709	0.886 3921	1238.8	844	0.384 4785	537.6	367
12.0	0.180 4225	7167.1		0.887 8442	1181.2		0.385 1086	512.6	
12.5	0.171 8153	7178.2	4724	0.889 2271	1123.6	767	0.385 7088	487.6	334
13.0	-0.163 1952	7188.7		-0.890 5408	1065.9		-0.386 2790	462.6	
13.5	0.154 5628	7198.7	+4738	0.891 7853	1008.2	-690	0.386 8191	437.6	-300
14.0	0.145 9187	7208.1		0.892 9605	950.5		0.387 3292	412.5	
14.5	0.137 2637	7216.9	4750	0.894 0664	892.7	613	0.387 8092	387.4	267
15.0	0.128 5984	7225.1		0.895 1028	834.7		0.388 2590	362.3	
15.5	0.119 9236	7232.8	4760	0.896 0697	776.8	535	0.388 6787	337.2	233



Mittlere Zeit Greenwich	Mittleres Äquinoktium 1923.0								
	X	Stünd- liche Ände- rung	Re- duk- tion auf 1925.0	Y	Stünd- liche Ände- rung	Re- duk- tion auf 1925.0	Z	Stünd- liche Ände- rung	Re- duk- tion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1923									
Dez. 15.5	-0.119 9236	7232.8	+4760	-0.896 0697	776.8	- 535	-0.388 6787	337.2	- 233
16.0	0.111 2398	7240.0		0.896 9671	718.8		0.389 0682	312.0	
16.5	0.102 5478	7246.7	4769	0.897 7949	660.8	457	0.389 4275	286.8	199
17.0	0.093 8482	7252.7		0.898 5530	602.8		0.389 7566	261.6	
17.5	0.085 1416	7258.2	4777	0.899 2415	544.7	379	0.390 0554	236.4	165
18.0	0.076 4288	7263.1		0.899 8603	486.6		0.390 3240	211.2	
18.5	-0.067 7103	7267.6	+4783	-0.900 4094	428.5	- 301	-0.390 5623	186.0	- 131
19.0	0.058 9868	7271.5		0.900 8888	370.4		0.390 7703	160.7	
19.5	0.050 2590	7274.8	4788	0.901 2985	312.3	223	0.390 9481	135.5	97
20.0	0.041 5275	7277.6		0.901 6384	254.2		0.391 0956	110.3	
20.5	0.032 7930	7279.8	4791	0.901 9085	196.0	145	0.391 2128	85.0	63
21.0	0.024 0561	7281.5		0.902 1088	137.8		0.391 2997	59.8	
21.5	-0.015 3175	7282.7	+4793	-0.902 2393	79.7	- 67	-0.391 3563	34.5	- 29
22.0	-0.006 5778	7283.3		0.902 3000	21.5		0.391 3826	9.2	
22.5	+0.002 1623	7283.5	4793	0.902 2909	36.7	+ 11	0.391 3785	16.0	+ 5
23.0	0.010 9023	7283.1		0.902 2120	94.8		0.391 3441	41.3	
23.5	0.019 6414	7282.1	4792	0.902 0633	153.0	89	0.391 2794	66.5	39
24.0	0.028 3790	7280.6		0.901 8449	211.1		0.391 1844	91.8	
24.5	+0.037 1146	7278.6	+4789	-0.901 5567	269.3	+ 167	-0.391 0591	117.1	+ 73
25.0	0.045 8474	7276.0		0.901 1986	327.5		0.390 9034	142.3	
25.5	0.054 5768	7272.9	4785	0.900 7708	385.6	245	0.390 7175	167.5	107
26.0	0.063 3022	7269.3		0.900 2732	443.7		0.390 5014	192.7	
26.5	0.072 0229	7265.1	4779	0.899 7059	501.8	323	0.390 2550	218.0	141
27.0	0.080 7383	7260.4		0.899 0688	560.0		0.389 9783	243.2	
27.5	+0.089 4477	7255.2	+4772	-0.898 3620	618.1	+ 401	-0.389 6713	268.4	+ 175
28.0	0.098 1505	7249.4		0.897 5855	676.1		0.389 3341	293.5	
28.5	0.106 8461	7243.1	4764	0.896 7393	734.2	479	0.388 9668	318.7	209
29.0	0.115 5338	7236.3		0.895 8234	792.3		0.388 5692	343.9	
29.5	0.124 2129	7228.8	4754	0.894 8379	850.3	556	0.388 1414	369.1	242
30.0	0.132 8828	7220.8		0.893 7828	908.2		0.387 6834	394.2	
30.5	+0.141 5428	7212.3	+4742	-0.892 6581	966.2	+ 634	-0.387 1952	419.3	+ 276
31.0	0.150 1921	7203.2		0.891 4638	1024.2		0.386 6769	444.4	
31.5	0.158 8302	7193.6	4729	0.890 2000	1082.1	711	0.386 1285	469.5	309
32.0	0.167 4564	7183.3		0.888 8667	1140.0		0.385 5500	494.6	
32.5	0.176 0699	7172.4	4714	0.887 4640	1197.8	788	0.384 9414	519.7	343

Frühlingsäquinoktium . . .	März	21	3 <sup>h</sup>
Sommersolstitium . . .	Juni	21	23
Herbstäquinoktium . . .	Sept.	23	14
Wintersolstitium . . .	Dez.	22	9
Perigäum . . . . .	Jan.	2	11 <sup>h</sup>
Apogäum . . . . .	Juli	5	12

Mittlere Zeit Greenwich	Aberration	Parallaxe	Mittlere Zeit Greenwich	Mittlere Länge $L_{\odot}$	Mittlere Anomalie $M_{\odot}$
1923			1923		
Jan. 4.0	20.82	8.95	Jan. 4.5	283.5698	1.95
14.0	20.81	8.95	14.5	293.4263	11.81
24.0	20.79	8.94	24.5	303.2827	21.66
Febr. 3.0	20.77	8.93	Febr. 3.5	313.1392	31.52
13.0	20.73	8.91	13.5	322.9957	41.37
23.0	20.69	8.89	23.5	332.8522	51.23
März 5.0	20.64	8.87	März 5.5	342.7086	61.09
15.0	20.58	8.85	15.5	352.5651	70.94
25.0	20.52	8.82	25.5	2.4216	80.80
April 4.0	20.46	8.80	April 4.5	12.2780	90.65
14.0	20.40	8.77	14.5	22.1345	100.51
24.0	20.35	8.75	24.5	31.9910	110.37
Mai 4.0	20.30	8.73	Mai 4.5	41.8475	120.22
14.0	20.25	8.71	14.5	51.7039	130.08
24.0	20.21	8.69	24.5	61.5604	139.93
Juni 3.0	20.18	8.67	Juni 3.5	71.4169	149.79
13.0	20.15	8.66	13.5	81.2734	159.65
23.0	20.14	8.66	23.5	91.1299	169.50
Juli 3.0	20.13	8.66	Juli 3.5	100.9863	179.36
13.0	20.14	8.66	13.5	110.8428	189.21
23.0	20.15	8.66	23.5	120.6993	199.07
Aug. 2.0	20.17	8.67	Aug. 2.5	130.5558	208.93
12.0	20.20	8.68	12.5	140.4122	218.78
22.0	20.24	8.70	22.5	150.2687	228.64
Sept. 1.0	20.29	8.72	Sept. 1.5	160.1252	238.49
11.0	20.34	8.74	11.5	169.9816	248.35
21.0	20.39	8.77	21.5	179.8381	258.21
Okt. 1.0	20.45	8.79	Okt. 1.5	189.6946	268.06
11.0	20.51	8.82	11.5	199.5511	277.92
21.0	20.57	8.84	21.5	209.4075	287.77
31.0	20.62	8.87	31.5	219.2640	297.63
Nov. 10.0	20.67	8.89	Nov. 10.5	229.1205	307.49
20.0	20.72	8.91	20.5	238.9769	317.34
30.0	20.76	8.92	30.5	248.8334	327.20
Dez. 10.0	20.79	8.94	Dez. 10.5	258.6899	337.05
20.0	20.81	8.95	20.5	268.5464	346.91
30.0	20.82	8.95	30.5	278.4028	356.77
40.0	20.82	8.95	40.5	288.2593	6.62

## Phasen des Mondes

Vollmond	Jan.	2	14	<sup>h</sup> 33.4
Letztes Viertel		9	12	54.5
Neumond		16	14	41.0
Erstes Viertel		24	15	59.3
Vollmond	Febr.	1	3	53.2
Letztes Viertel		7	21	15.9
Neumond		15	7	7.2
Erstes Viertel		23	12	6.2
Vollmond	März	2	15	23.6
Letztes Viertel		9	6	31.0
Neumond		17	0	51.3
Erstes Viertel		25	4	41.5
Vollmond	April	1	1	9.8
Letztes Viertel		7	17	22.5
Neumond		15	18	28.4
Erstes Viertel		23	17	20.3
Vollmond		30	9	30.3
Letztes Viertel	Mai	7	6	18.2
Neumond		15	10	38.4
Erstes Viertel		23	2	25.0
Vollmond		29	17	7.2
Letztes Viertel	Juni	5	21	19.1
Neumond		14	0	42.1
Erstes Viertel		21	8	45.9
Vollmond		28	1	4.2

Letztes Viertel	Juli	5	13	<sup>h</sup> 56.4
Neumond		13	12	44.8
Erstes Viertel		20	13	31.9
Vollmond		27	10	32.6
Letztes Viertel	Aug.	4	7	22.3
Neumond		11	23	16.6
Erstes Viertel		18	18	6.9
Vollmond		25	22	29.4
Letztes Viertel	Sept.	3	0	47.3
Neumond		10	8	52.6
Erstes Viertel		17	0	4.0
Vollmond		24	13	15.8
Letztes Viertel	Okt.	2	17	29.2
Neumond		9	18	5.5
Erstes Viertel		16	8	53.6
Vollmond		24	6	26.2
Letztes Viertel	Nov.	1	8	48.9
Neumond		8	3	27.0
Erstes Viertel		14	21	41.1
Vollmond		23	0	57.9
Letztes Viertel		30	22	9.2
Neumond	Dez.	7	13	30.4
Erstes Viertel		14	14	37.9
Vollmond		22	19	33.0
Letztes Viertel		30	9	7.1

### Mond im Perigäum

Jan.	7	<sup>h</sup> 23.9
Febr.	3	19.3
März	3	22.8
April	1	9.4
April	29	20.4
Mai	28	3.8
Juni	25	1.5
Juli	21	13.9
Aug.	15	22.0
Sept.	12	10.4
Okt.	10	15.7
Nov.	8	3.0
Dez.	6	15.0

### Mond im Apogäum

Jan.	23	<sup>h</sup> 1.4
Febr.	19	20.3
März	19	8.4
April	15	11.2
Mai	12	16.8
Juni	9	6.5
Juli	6	23.8
Aug.	3	18.4
Aug.	31	12.9
Sept.	28	5.4
Okt.	25	14.6
Nov.	21	14.9
Dez.	18	23.2



Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1923						
Jan. 0.5	4 52 9 54 42	+17 32.7 0 50.9	56 20.2 39.0	15 22.5 10.6	73.786	-4.952
1.5	5 46 51 56 14	+18 23.6 0 8.5	56 59.2 37.5	15 33.1 10.3	86.869	-5.018
2.5	6 43 5 56 59	+18 15.1 1 11.3	57 36.7 33.5	15 43.4 9.1	100.259	-4.812
3.5	7 40 4 56 54	+17 3.8 2 12.1	58 10.2 27.4	15 52.5 7.4	113.916	-4.330
4.5	8 36 58 56 14	+14 51.7 3 5.6	58 37.6 20.1	15 59.9 5.5	127.782	-3.586
5.5	9 33 12 55 17	+11 46.1 3 47.3	58 57.7 12.8	16 5.4 3.5	141.791	-2.617
6.5	10 28 29 54 24	+ 7 58.8 4 14.9	59 10.5 5.9	16 8.9 1.6	155.882	-1.481
7.5	11 22 53 53 52	+ 3 43.9 4 27.3	59 16.4 0.0	16 10.5 0.0	170.007	-0.248
8.5	12 16 45 53 51	- 0 43.4 4 24.2	59 16.4 5.0	16 10.5 1.3	184.130	+1.001
9.5	13 10 36 54 21	- 5 7.6 4 6.2	59 11.4 9.2	16 9.2 2.5	198.232	+2.189
10.5	14 4 57 55 14	- 9 13.8 3 34.0	59 2.2 13.0	16 6.7 3.6	212.297	+3.240
11.5	15 0 11 56 14	-12 47.8 2 49.1	58 49.2 17.0	16 3.1 4.6	226.311	+4.093
12.5	15 56 25 57 1	-15 36.9 1 53.8	58 32.2 21.0	15 58.5 5.8	240.252	+4.697
13.5	16 53 26 57 13	-17 30.7 0 51.8	58 11.2 25.2	15 52.7 6.8	254.086	+5.021
14.5	17 50 39 56 37	-18 22.5 0 11.4	57 46.0 29.0	15 45.9 7.9	267.771	+5.053
15.5	18 47 16 55 15	-18 11.1 1 11.2	57 17.0 32.0	15 38.0 8.7	281.260	+4.801
16.5	19 42 31 53 17	-16 59.9 2 2.8	56 45.0 33.4	15 29.3 9.1	294.508	+4.293
17.5	20 35 48 51 3	-14 57.1 2 44.0	56 11.6 33.0	15 20.2 9.0	307.484	+3.570
18.5	21 26 51 48 55	-12 13.1 3 13.9	55 38.6 30.3	15 11.2 8.3	320.174	+2.681
19.5	22 15 46 47 7	- 8 59.2 3 33.0	55 8.3 25.6	15 2.9 7.0	332.587	+1.680
20.5	23 2 53 45 49	- 5 26.2 3 42.9	54 42.7 18.7	14 55.9 5.1	344.753	+0.618
21.5	23 48 42 45 9	- 1 43.3 3 44.3	54 24.0 10.3	14 50.8 2.8	356.724	-0.457
22.5	0 33 51 45 7	+ 2 1.0 3 38.4	54 13.7 0.6	14 48.0 0.1	8.567	-1.503
23.5	1 18 58 45 46	+ 5 39.4 3 25.6	54 13.1 9.8	14 47.9 2.6	20.362	-2.482
24.5	2 4 44 47 1	+ 9 5.0 3 5.5	54 22.9 20.3	14 50.5 5.6	32.195	-3.359
25.5	2 51 45 48 50	+12 10.5 2 37.3	54 43.2 30.3	14 56.1 8.2	44.156	-4.099
26.5	3 40 35 50 59	+14 47.8 2 0.3	55 13.5 38.8	15 4.3 10.6	56.332	-4.668
27.5	4 31 34 53 18	+16 48.1 1 13.9	55 52.3 45.2	15 14.9 12.3	68.798	-5.032
28.5	5 24 52 55 23	+18 2.0 0 18.6	56 37.5 48.6	15 27.2 13.3	81.616	-5.158
29.5	6 20 15 56 56	+18 20.6 0 43.1	57 26.1 48.1	15 40.5 13.1	94.822	-5.018
30.5	7 17 11 57 45	+17 37.5 1 46.9	58 14.2 43.6	15 53.6 11.8	108.419	-4.596
31.5	8 14 56 57 48	+15 50.6 2 47.1	58 57.8 35.0	16 5.4 9.6	122.377	-3.892
Febr. 1.5	9 12 44 57 15	+13 3.5 3 37.4	59 32.8 23.5	16 15.0 6.4	136.631	-2.932
2.5	10 9 59 56 27	+ 9 26.1 4 13.2	59 56.3 10.4	16 21.4 2.8	151.090	-1.770
3.5	11 6 26 55 42	+ 5 12.9 4 31.8	60 6.7 2.4	16 24.2 0.6	165.652	-0.482
4.5	12 2 8 55 16	+ 0 41.1 4 32.4	60 4.3 13.5	16 23.6 3.7	180.218	+0.840
5.5	12 57 24 55 11	- 3 51.3 4 16.0	59 50.8 21.9	16 19.9 6.0	194.701	+2.103
6.5	13 52 35 55 27	- 8 7.3 3 44.6	59 28.9 27.4	16 13.9 7.5	209.039	+3.221
7.5	14 48 2 55 52	-11 51.9 3 0.5	59 1.5 30.4	16 6.4 8.2	223.190	+4.127
8.5	15 43 54 56 14	-14 52.4 2 7.1	58 31.1 31.5	15 58.2 8.6	237.134	+4.775
9.5	16 40 8 56 15	-16 59.5 1 7.8	57 59.6 31.4	15 49.6 8.6	250.859	+5.138
10.5	17 36 23	-18 7.3	57 28.2	15 41.0	264.365	+5.210

Tag	Obere Kulmination in Greenwich							ob Länge, + 50° Breite			
	AR.	Ände- rung für 1 <sup>h</sup> westl. Länge	Dekl.	Ände- rung für 1 <sup>h</sup> westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 <sup>h</sup> westl. Länge	Auf- gang	Ände- rung für 1 <sup>h</sup> westl. Länge	Unter- gang	Ände- rung für 1 <sup>h</sup> westl. Länge
1923											
Jan. 0	4 <sup>h</sup> 48 <sup>m</sup> 3 <sup>s</sup>	139	+17 26.6	+ 3.6	56.3	10 <sup>h</sup> 9 <sup>m</sup> 2.14	2 <sup>h</sup> 30 <sup>m</sup> 1.7	17 55	2.5		
1	5 44 38	144	+18 22.7	+ 1.1	57.0	11 2.4 2.23	3 14	2.0	18 52	2.3	
2	6 42 57	147	+18 15.2	- 1.7	57.6	11 56.6 2.28	4 7	2.4	19 44	2.0	
3	7 42 6	148	+17 0.1	- 4.5	58.2	12 51.7 2.30	5 7	2.7	20 30	1.8	
4	8 41 10	147	+14 39.7	- 7.1	58.7	13 46.6 2.28	6 14	2.9	21 10	1.6	
5	9 39 26	144	+11 22.6	- 9.2	59.0	14 40.8 2.24	7 25	3.0	21 45	1.4	
6	10 36 37	142	+ 7 22.3	-10.7	59.2	15 33.9 2.19	8 39	3.1	22 17	1.3	
7	11 32 51	140	+ 2 55.0	-11.5	59.3	16 26.1 2.16	9 53	3.1	22 47	1.2	
8	12 28 37	139	- 1 42.5	-11.5	59.3	17 17.7 2.15	11 8	3.1	23 16	1.2	
9	13 24 29	140	- 6 13.1	-10.9	59.2	18 9.5 2.17	12 23	3.1	23 46	1.3	
10	14 21 2	143	-10 20.5	- 9.6	59.0	19 2.0 2.21	13 37	3.1	—	—	
11	15 18 39	145	-13 49.2	- 7.7	58.7	19 55.5 2.26	14 50	3.0	0 18	1.4	
12	16 17 20	148	-16 25.7	- 5.3	58.4	20 50.1 2.29	16 0	2.8	0 54	1.6	
13	17 16 42	149	-17 59.4	- 2.5	58.0	21 45.4 2.31	17 6	2.6	1 35	1.8	
14	18 15 57	147	-18 25.2	+ 0.4	57.6	22 40.5 2.29	18 5	2.3	2 23	2.1	
15	19 14 8	143	-17 43.8	+ 3.0	57.0	23 34.6 2.22	18 56	2.0	3 17	2.4	
16	—	—	—	—	—	—	19 40	1.7	4 16	2.5	
17	20 10 25	138	-16 2.0	+ 5.4	56.5	0 26.8 2.13	20 17	1.4	5 18	2.6	
18	21 4 19	132	-13 30.7	+ 7.2	55.9	1 16.6 2.02	20 49	1.2	6 22	2.7	
19	21 55 46	126	-10 22.4	+ 8.4	55.3	2 4.0 1.93	21 17	1.1	7 27	2.7	
20	22 45 3	121	- 6 49.3	+ 9.2	54.9	2 49.2 1.84	21 42	1.0	8 30	2.6	
21	23 32 40	118	- 3 2.4	+ 9.6	54.5	3 32.8 1.79	22 6	1.0	9 32	2.6	
22	0 19 19	116	+ 0 48.9	+ 9.6	54.3	4 15.4 1.76	22 30	1.0	10 34	2.6	
23	1 5 42	116	+ 4 36.4	+ 9.3	54.2	4 57.7 1.77	22 55	1.1	11 35	2.5	
24	1 52 34	118	+ 8 12.5	+ 8.7	54.3	5 40.5 1.80	23 21	1.2	12 36	2.6	
25	2 40 40	122	+11 29.5	+ 7.7	54.6	6 24.5 1.87	23 51	1.3	13 38	2.6	
26	3 30 36	128	+14 18.9	+ 6.3	55.1	7 10.4 1.96	—	—	14 39	2.5	
27	4 22 52	134	+16 30.9	+ 4.6	55.8	7 58.6 2.06	0 25	1.5	15 39	2.5	
28	5 17 41	140	+17 55.2	+ 2.4	56.5	8 49.3 2.17	1 5	1.8	16 37	2.4	
29	6 14 53	146	+18 21.4	- 0.2	57.4	9 42.4 2.25	1 53	2.2	17 32	2.2	
30	7 13 53	149	+17 41.7	- 3.1	58.2	10 37.4 2.31	2 50	2.5	18 21	1.9	
31	8 13 52	150	+15 53.1	- 5.9	59.0	11 33.2 2.33	3 54	2.8	19 4	1.7	
Febr. 1	9 13 54	149	+12 59.6	- 8.5	59.6	12 29.2 2.32	5 4	3.0	19 43	1.5	
2	10 13 19	147	+ 9 12.1	-10.4	60.0	13 24.5 2.29	6 19	3.1	20 18	1.4	
3	11 11 50	145	+ 4 47.2	-11.6	60.1	14 18.9 2.25	7 36	3.2	20 50	1.3	
4	12 9 33	144	+ 0 4.3	-11.9	60.1	15 12.5 2.22	8 53	3.2	21 20	1.2	
5	13 6 48	143	- 4 36.6	-11.4	59.8	16 5.7 2.21	10 10	3.2	21 50	1.3	
6	14 4 4	143	- 8 57.0	-10.2	59.4	16 58.9 2.22	11 26	3.1	22 22	1.4	
7	15 1 40	145	-12 40.5	- 8.4	58.9	17 52.4 2.24	12 40	3.0	22 57	1.5	
8	15 59 45	146	-15 34.0	- 6.0	58.4	18 46.4 2.26	13 51	2.9	23 36	1.7	
9	16 58 9	146	-17 27.8	- 3.4	57.8	19 40.7 2.26	14 58	2.7	—	—	
10	17 56 24	145	-18 16.7	- 0.7	57.3	20 34.9 2.25	15 58	2.4	0 21	2.0	

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1923						
Febr. 10.5	17 36 <sup>m</sup> 23 <sup>m</sup>	-18 7.3	57 28.2	15 41.0	264.365	+5.210
11.5	18 32 6	-18 14.1	56 57.5	15 32.7	277.650	+4.999
12.5	19 26 44	-17 22.2	56 27.8	15 24.6	290.715	+4.530
13.5	20 19 46	-15 37.8	55 59.2	15 16.8	303.559	+3.838
14.5	21 10 57	-13 9.3	55 32.0	15 9.4	316.186	+2.968
15.5	22 0 14	-10 7.0	55 6.7	15 2.5	328.602	+1.969
16.5	22 47 51	- 6 41.1	54 44.1	14 56.3	340.823	+0.892
17.5	23 34 9	- 3 1.5	54 25.5	14 51.3	352.871	-0.212
18.5	0 19 37	+ 0 42.7	54 12.2	14 47.6	4.783	-1.296
19.5	1 4 47	+ 4 23.3	54 5.5	14 45.8	16.607	-2.318
20.5	1 50 12	+ 7 52.9	54 6.9	14 46.2	28.400	-3.238
21.5	2 36 25	+11 4.1	54 17.3	14 49.0	40.232	-4.025
22.5	3 23 58	+13 49.6	54 37.5	14 54.5	52.177	-4.645
23.5	4 13 14	+16 1.7	55 7.8	15 2.8	64.316	-5.069
24.5	5 4 31	+17 32.4	55 47.7	15 13.6	76.727	-5.269
25.5	5 57 50	+18 13.6	56 35.8	15 26.8	89.484	-5.220
26.5	6 53 1	+17 58.1	57 29.8	15 41.5	102.643	-4.899
27.5	7 49 37	+16 41.2	58 26.0	15 56.8	116.238	-4.299
28.5	8 47 3	+14 22.4	59 19.7	16 11.4	130.268	-3.425
März 1.5	9 44 48	+11 6.8	60 5.8	16 24.0	144.694	-2.313
2.5	10 42 28	+ 7 5.2	60 39.2	16 33.1	159.433	-1.023
3.5	11 39 53	+ 2 33.7	60 56.2	16 37.7	174.369	+0.354
4.5	12 37 7	- 2 8.3	60 55.3	16 37.5	189.366	+1.713
5.5	13 34 19	- 6 40.6	60 37.7	16 32.7	204.285	+2.947
6.5	14 31 37	-10 44.3	60 6.5	16 24.2	219.007	+3.970
7.5	15 29 5	-14 4.0	59 26.1	16 13.2	233.443	+4.719
8.5	16 26 29	-16 28.7	58 41.0	16 0.9	247.540	+5.164
9.5	17 23 29	-17 52.3	57 55.0	15 48.3	261.278	+5.299
10.5	18 19 35	-18 13.6	57 11.1	15 36.4	274.667	+5.141
11.5	19 14 16	-17 35.5	56 31.0	15 25.4	287.731	+4.718
12.5	20 7 12	-16 4.3	55 55.4	15 15.8	300.508	+4.069
13.5	20 58 14	-13 48.2	55 24.8	15 7.4	313.038	+3.235
14.5	21 47 26	-10 56.3	54 58.9	15 0.4	325.359	+2.264
15.5	22 35 0	- 7 38.3	54 37.6	14 54.5	337.510	+1.202
16.5	23 21 20	- 4 3.5	54 20.6	14 49.9	349.524	+0.099
17.5	0 6 51	- 0 20.7	54 8.2	14 46.5	1.435	-0.999
18.5	0 52 3	+ 3 21.4	54 0.6	14 44.5	13.276	-2.046
19.5	1 37 22	+ 6 54.9	53 58.5	14 43.9	25.081	-3.003
20.5	2 23 19	+10 11.9	54 2.7	14 45.0	36.893	-3.830
21.5	3 10 16	+13 4.9	54 14.2	14 48.2	48.757	-4.497
22.5	3 58 35	+15 26.4	54 33.8	14 53.5	60.728	-4.974
23.5	4 48 29	+17 9.1	55 2.2	15 1.2	72.867	-5.238



Tag	Obere Kulmination in Greenwich							o <sup>b</sup> Länge, + 50° Breite			
	AR.	Ände- rung für 1 <sup>h</sup> westl. Länge	Dekl.	Ände- rung für 1 <sup>h</sup> westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 <sup>h</sup> westl. Länge	Auf- gang	Ände- rung für 1 <sup>h</sup> westl. Länge	Unter- gang	Ände- rung für 1 <sup>h</sup> westl. Länge
1923											
Febr. 10	17 <sup>h</sup> 56 <sup>m</sup> 24 <sup>a</sup>	145 <sup>a</sup>	-18° 16.7	- 0.7	57.3	20 <sup>h</sup> 34.9	2.25	15 <sup>h</sup> 58 <sup>m</sup>	2.4	0 21 <sup>m</sup>	2.0
11	18 53 49	142	-18 0.4	+ 2.0	56.8	21 28.2	2.20	16 51	2.1	1 11	2.2
12	19 49 47	138	-16 43.3	+ 4.4	56.3	22 20.1	2.12	17 37	1.8	2 7	2.4
13	20 43 49	132	-14 33.6	+ 6.4	55.8	23 10.0	2.04	18 16	1.5	3 7	2.5
14	21 35 45	127	-11 42.0	+ 7.9	55.3	23 57.9	1.95	18 49	1.3	4 9	2.6
15	—	—	—	—	—	—	—	19 18	1.2	5 13	2.7
16	22 25 41	123	- 8 20.1	+ 8.9	54.9	0 43.7	1.87	19 45	1.1	6 17	2.7
17	23 13 58	119	- 4 39.0	+ 9.5	54.6	1 28.0	1.82	20 10	1.0	7 20	2.6
18	0 1 5	117	- 0 49.0	+ 9.6	54.3	2 11.0	1.78	20 34	1.0	8 22	2.6
19	0 47 38	116	+ 3 0.5	+ 9.4	54.1	2 53.5	1.76	20 58	1.0	9 23	2.5
20	1 34 14	117	+ 6 41.3	+ 8.9	54.1	3 36.1	1.79	21 24	1.1	10 24	2.5
21	2 21 31	119	+10 5.3	+ 8.0	54.2	4 19.3	1.82	21 52	1.2	11 25	2.5
22	3 10 4	123	+13 4.8	+ 6.9	54.5	5 3.8	1.89	22 23	1.4	12 25	2.5
23	4 0 24	128	+15 31.4	+ 5.3	55.0	5 50.0	1.97	23 0	1.7	13 24	2.4
24	4 52 53	134	+17 16.2	+ 3.4	55.6	6 38.4	2.07	23 43	1.9	14 22	2.4
25	5 47 39	140	+18 10.0	+ 1.1	56.4	7 29.1	2.16	—	—	15 17	2.2
26	6 44 33	145	+18 4.3	- 1.6	57.4	8 21.9	2.24	0 33	2.3	16 8	2.0
27	7 43 8	148	+16 53.1	- 4.4	58.3	9 16.4	2.30	1 32	2.6	16 54	1.8
28	8 42 44	150	+14 34.9	- 7.1	59.3	10 11.9	2.33	2 39	2.9	17 35	1.6
März 1	9 42 43	150	+11 14.8	- 9.5	60.1	11 7.8	2.33	3 52	3.1	18 12	1.5
2	10 42 37	149	+ 7 4.6	-11.2	60.7	12 3.6	2.32	5 9	3.3	18 46	1.4
3	11 42 15	149	+ 2 22.2	-12.1	60.9	12 59.2	2.31	6 28	3.3	19 18	1.3
4	12 41 40	148	- 2 30.5	-12.1	60.9	13 54.5	2.30	7 48	3.3	19 49	1.3
5	13 41 4	149	- 7 11.1	-11.1	60.6	14 49.8	2.31	9 7	3.3	20 22	1.4
6	14 40 36	149	-11 18.8	- 9.4	60.0	15 45.2	2.31	10 25	3.2	20 57	1.5
7	15 40 17	149	-14 36.8	- 7.0	59.3	16 40.8	2.32	11 40	3.0	21 36	1.7
8	16 39 51	148	-16 53.8	- 4.3	58.5	17 36.3	2.30	12 49	2.8	22 20	1.9
9	17 38 50	146	-18 4.2	- 1.5	57.7	18 31.2	2.26	13 52	2.5	23 9	2.2
10	18 36 39	143	-18 7.9	+ 1.2	57.0	19 24.9	2.21	14 48	2.2	—	—
11	19 32 45	138	-17 9.7	+ 3.6	56.3	20 16.9	2.12	15 36	1.8	0 3	2.3
12	20 26 49	132	-15 17.4	+ 5.7	55.7	21 6.9	2.04	16 17	1.5	1 1	2.5
13	21 18 46	127	-12 41.0	+ 7.3	55.2	21 54.8	1.95	16 51	1.3	2 2	2.6
14	22 8 46	123	- 9 30.9	+ 8.5	54.8	22 40.7	1.88	17 21	1.2	3 5	2.6
15	22 57 10	119	- 5 57.6	+ 9.2	54.5	23 25.1	1.82	17 49	1.1	4 8	2.6
16	—	—	—	—	—	—	—	18 14	1.0	5 10	2.6
17	23 44 26	117	- 2 11.3	+ 9.6	54.2	0 8.3	1.78	18 38	1.0	6 12	2.6
18	0 31 3	116	+ 1 38.8	+ 9.5	54.1	0 50.8	1.77	19 2	1.0	7 14	2.6
19	1 17 36	117	+ 5 23.5	+ 9.1	54.0	1 33.3	1.78	19 27	1.1	8 15	2.5
20	2 4 35	118	+ 8 54.5	+ 8.4	54.0	2 16.2	1.80	19 54	1.2	9 16	2.5
21	2 52 31	121	+12 3.3	+ 7.3	54.1	3 0.1	1.85	20 24	1.3	10 16	2.5
22	3 41 49	125	+14 41.8	+ 5.9	54.4	3 45.3	1.92	20 58	1.5	11 15	2.4
23	4 32 47	130	+16 41.8	+ 4.1	54.9	4 32.3	1.99	21 38	1.8	12 13	2.4

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1923						
März 23.5	4 48 <sup>m</sup> 29 <sup>m</sup>	+17° 9.1	55 2.2	15 1.2	72.867	-5.238
24.5	5 40 3 51 34	+18 5.9	55 39.5	15 11.4	85.239	-5.266
25.5	6 33 11 53 8	+18 10.6	56 25.3	15 23.9	97.912	-5.042
26.5	7 27 41 54 30	+17 18.6	57 18.2	15 38.3	110.950	-4.557
27.5	8 23 12 55 31	+15 27.7	58 15.5	15 53.9	124.406	-3.811
28.5	9 19 26 56 41	+12 39.7	59 13.4	16 9.7	138.310	-2.820
29.5	10 16 7 57 5	+ 9 0.9	60 6.8	16 24.2	152.658	-1.624
30.5	11 13 12 57 32	+ 4 42.7	60 49.7	16 35.9	167.404	-0.290
31.5	12 10 44 58 7	+ 0 1.4	61 17.0	16 43.4	182.454	+1.090
April 1.5	13 8 51 58 47	- 4 42.8	61 24.9	16 45.5	197.670	+2.406
2.5	14 7 38 59 23	- 9 8.4	61 12.7	16 42.2	212.890	+3.550
3.5	15 7 1 59 36	-12 55.4	60 42.2	16 33.9	227.948	+4.433
4.5	16 6 37 59 15	-15 47.9	59 58.1	16 21.9	242.703	+5.003
5.5	17 5 52 58 9	-17 36.0	59 5.6	16 7.6	257.055	+5.240
6.5	18 4 1 56 24	-18 17.1	58 10.2	15 52.5	270.958	+5.158
7.5	19 0 25 54 11	-17 54.1	57 16.3	15 37.8	284.407	+4.793
8.5	19 54 36 51 50	-16 34.3	56 27.1	15 24.4	297.437	+4.188
9.5	20 46 26 49 36	-14 27.0	55 44.3	15 12.7	310.102	+3.393
10.5	21 36 2 47 41	-11 42.2	55 9.0	15 3.1	322.469	+2.456
11.5	22 23 46 46 19	- 8 29.8	54 41.2	14 55.5	334.607	+1.426
12.5	23 10 5 45 24	- 4 58.7	54 20.6	14 49.9	346.582	+0.347
13.5	23 55 29 45 3	- 1 17.4	54 6.6	14 46.1	358.452	-0.735
14.5	0 40 32 45 11	+ 2 25.8	53 58.6	14 43.9	10.265	-1.778
15.5	1 25 43 45 46	+ 6 3.1	53 56.1	14 43.2	22.065	-2.742
16.5	2 11 29 46 46	+ 9 26.4	53 58.9	14 44.0	33.887	-3.587
17.5	2 58 15 48 1	+12 27.8	54 7.0	14 46.2	45.761	-4.279
18.5	3 46 16 49 26	+14 59.4	54 20.8	14 50.0	57.719	-4.788
19.5	4 35 42 50 51	+16 53.4	54 40.6	14 55.4	69.793	-5.090
20.5	5 26 33 52 7	+18 3.1	55 7.0	15 2.6	82.020	-5.164
21.5	6 18 40 53 6	+18 22.5	55 40.4	15 11.6	94.444	-4.999
22.5	7 11 46 53 50	+17 47.8	56 20.7	15 22.6	107.114	-4.590
23.5	8 5 36 54 18	+16 17.3	57 7.4	15 35.4	120.085	-3.939
24.5	8 59 54 54 41	+13 52.0	57 59.1	15 49.4	133.407	-3.060
25.5	9 54 35 55 7	+10 36.5	58 52.8	16 4.1	147.125	-1.983
26.5	10 49 42 55 47	+ 6 38.7	59 44.9	16 18.3	161.262	-0.755
27.5	11 45 29 56 46	+ 2 10.5	60 30.2	16 30.6	175.806	+0.554
28.5	12 42 15 58 3	- 2 31.9	61 3.4	16 39.7	190.703	+1.854
29.5	13 40 18 59 26	- 7 9.2	61 19.8	16 44.2	205.846	+3.043
30.5	14 39 41 60 34	-11 20.0	61 16.8	16 43.3	221.087	+4.021
Mai 1.5	15 40 18 61 4	-14 44.3	60 54.4	16 37.2	236.251	+4.710
2.5	16 41 22 60 36	-17 6.4	60 15.3	16 26.6	251.169	+5.064
3.5	17 41 58	-18 17.9	59 24.6	16 12.7	265.704	+5.080

Tag	Obere Kulmination in Greenwich							0 <sup>h</sup> Länge, + 50° Breite				
	AR.	Ände- rung für 1 <sup>h</sup> westl. Länge	Dekl.	Ände- rung für 1 <sup>h</sup> westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 <sup>h</sup> westl. Länge	Auf- gang	Ände- rung für 1 <sup>h</sup> westl. Länge	Unter- gang	Ände- rung für 1 <sup>h</sup> westl. Länge	
1923												
März 23	4 32 47	130	+16 41.8	+ 4.1	54.9	4 32.3	1.99	21 38	1.8	12 13	2.4	
24	5 25 35	134	+17 55.2	+ 2.0	55.5	5 21.0	2.07	22 24	2.1	13 8	2.2	
25	6 20 12	139	+18 14.6	- 0.4	56.2	6 11.5	2.14	23 17	2.4	13 59	2.0	
26	7 16 22	142	+17 34.1	- 3.0	57.1	7 3.6	2.20	—	—	14 45	1.8	
27	8 13 47	145	+15 50.5	- 5.6	58.1	7 56.9	2.24	0 18	2.7	15 27	1.7	
28	9 12 1	146	+13 4.8	- 8.1	59.1	8 51.1	2.27	1 26	3.0	16 5	1.5	
29	10 10 49	148	+ 9 23.1	-10.3	60.0	9 45.8	2.29	2 39	3.2	16 40	1.4	
30	11 10 4	149	+ 4 57.6	-11.7	60.8	10 40.9	2.31	3 57	3.3	17 12	1.3	
31	12 9 48	150	+ 0 6.1	-12.4	61.3	11 36.6	2.33	5 17	3.4	17 44	1.3	
April 1	13 10 11	152	- 4 49.1	-12.0	61.4	12 32.9	2.36	6 38	3.4	18 17	1.4	
2	14 11 20	154	- 9 23.9	-10.7	61.2	13 29.9	2.39	7 59	3.3	18 52	1.5	
3	15 13 7	155	-13 15.8	- 8.5	60.6	14 27.6	2.41	9 18	3.2	19 30	1.7	
4	16 15 6	155	-16 7.4	- 5.7	59.8	15 25.5	2.41	10 33	3.0	20 13	1.9	
5	17 16 35	152	-17 48.5	- 2.7	58.9	16 22.8	2.36	11 41	2.7	21 1	2.1	
6	18 16 41	148	-18 17.3	+ 0.3	58.0	17 18.8	2.30	12 42	2.4	21 55	2.4	
7	19 14 40	142	-17 38.5	+ 2.9	57.1	18 12.7	2.19	13 34	2.0	22 54	2.5	
8	20 10 6	135	-16 1.3	+ 5.1	56.2	19 4.1	2.09	14 17	1.7	23 55	2.6	
9	21 2 57	129	-13 36.5	+ 6.9	55.5	19 52.9	1.98	14 54	1.4	—	—	
10	21 53 27	124	-10 35.5	+ 8.1	55.0	20 39.3	1.90	15 25	1.2	0 58	2.6	
11	22 42 2	120	- 7 8.9	+ 9.0	54.5	21 23.8	1.82	15 53	1.1	2 1	2.6	
12	23 29 18	117	- 3 26.2	+ 9.5	54.2	22 7.0	1.78	16 18	1.0	3 3	2.6	
13	0 15 49	116	+ 0 23.5	+ 9.6	54.0	22 49.5	1.76	16 42	1.0	4 5	2.6	
14	1 2 11	116	+ 4 11.4	+ 9.3	53.9	23 31.8	1.77	17 6	1.0	5 6	2.5	
15	—	—	—	—	—	—	—	17 30	1.0	6 7	2.5	
16	1 48 57	118	+ 7 49.0	+ 8.7	53.9	0 14.5	1.80	17 56	1.1	7 8	2.5	
17	2 36 37	121	+11 7.7	+ 7.8	54.0	0 58.1	1.84	18 25	1.3	8 9	2.5	
18	3 25 31	124	+13 58.6	+ 6.4	54.2	1 42.9	1.90	18 58	1.5	9 9	2.5	
19	4 15 56	128	+16 13.2	+ 4.7	54.5	2 29.3	1.97	19 36	1.7	10 7	2.4	
20	5 7 56	132	+17 43.3	+ 2.7	54.9	3 17.2	2.02	20 19	1.9	11 3	2.3	
21	6 1 24	135	+18 22.0	+ 0.5	55.5	4 6.6	2.09	21 9	2.2	11 55	2.1	
22	6 56 6	138	+18 3.8	- 2.0	56.1	4 57.2	2.13	22 7	2.5	12 42	1.9	
23	7 51 40	140	+16 45.9	- 4.5	56.9	5 48.7	2.16	23 10	2.7	13 25	1.7	
24	8 47 50	141	+14 28.8	- 6.9	57.8	6 40.8	2.18	—	—	14 3	1.5	
25	9 44 25	142	+11 16.2	- 9.1	58.7	7 33.3	2.20	0 18	2.9	14 37	1.4	
26	10 41 29	143	+ 7 16.3	-10.8	59.6	8 26.3	2.22	1 31	3.1	15 9	1.3	
27	11 39 14	146	+ 2 41.4	-12.0	60.4	9 19.9	2.25	2 47	3.2	15 40	1.3	
28	12 38 4	149	- 2 11.2	-12.3	61.0	10 14.6	2.31	4 6	3.3	16 11	1.3	
29	13 38 18	152	- 7 0.0	-11.6	61.3	11 10.8	2.37	5 27	3.4	16 44	1.4	
30	14 40 5	156	-11 21.4	-10.0	61.3	12 8.5	2.43	6 48	3.3	17 20	1.6	
Mai 1	15 43 9	159	-14 52.4	- 7.5	60.9	13 7.4	2.47	8 7	3.2	18 1	1.8	
2	16 46 45	159	-17 15.6	- 4.4	60.2	14 6.9	2.47	9 21	3.0	18 48	2.1	
3	17 49 42	156	-18 21.9	- 1.1	59.3	15 5.8	2.42	10 28	2.6	19 42	2.4	



Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1923						
Mai 3.5	17 41 <sup>m</sup> 58 <sup>s</sup>	-18 <sup>m</sup> 17.9 <sup>s</sup>	59 24.6	16 12.7	265.704	+5.080
4.5	18 41 3	-18 18.8	58 27.7	15 57.2	279.773	+4.785
5.5	19 37 48	-17 15.6	57 30.0	15 41.5	293.348	+4.226
6.5	20 31 46	-15 18.8	56 35.8	15 26.7	306.449	+3.461
7.5	21 22 58	-12 40.2	55 48.0	15 13.7	319.132	+2.547
8.5	22 11 45	-9 31.1	55 8.6	15 3.0	331.471	+1.536
9.5	22 58 39	-6 1.6	54 38.2	14 54.7	343.553	+0.478
10.5	23 44 16	-2 20.5	54 16.9	14 48.9	355.460	-0.585
11.5	0 29 15	+1 24.4	54 4.2	14 45.4	7.272	-1.612
12.5	1 14 14	+5 5.4	53 59.2	14 44.1	19.056	-2.565
13.5	1 59 46	+8 35.0	54 1.1	14 44.6	30.868	-3.407
14.5	2 46 17	+11 45.4	54 9.0	14 46.8	42.752	-4.104
15.5	3 34 10	+14 28.2	54 22.1	14 50.3	54.739	-4.625
16.5	4 23 32	+16 35.2	54 39.7	14 55.1	66.854	-4.943
17.5	5 14 22	+17 58.8	55 1.6	15 1.1	79.114	-5.037
18.5	6 6 27	+18 32.5	55 27.7	15 8.2	91.535	-4.896
19.5	6 59 24	+18 12.3	55 58.0	15 16.4	104.136	-4.516
20.5	7 52 47	+16 56.6	56 32.5	15 25.9	116.940	-3.905
21.5	8 46 17	+14 47.0	57 11.0	15 36.3	129.978	-3.080
22.5	9 39 43	+11 48.1	57 52.7	15 47.7	143.288	-2.073
23.5	10 33 9	+8 7.2	58 36.1	15 59.5	156.904	-0.925
24.5	11 26 52	+3 54.4	59 18.7	16 11.1	170.854	+0.304
25.5	12 21 20	-0 37.7	59 57.2	16 21.6	185.146	+1.543
26.5	13 17 3	-5 13.3	60 27.5	16 29.9	199.755	+2.707
27.5	14 14 25	-9 34.2	60 45.6	16 34.8	214.614	+3.705
28.5	15 13 35	-13 20.8	60 48.2	16 35.5	229.608	+4.458
29.5	16 14 15	-16 14.5	60 34.1	16 31.7	244.593	+4.902
30.5	17 15 36	-18 1.7	60 4.1	16 23.5	259.411	+5.011
31.5	18 16 29	-18 35.9	59 21.4	16 11.9	273.918	+4.792
Juni 1.5	19 15 40	-17 59.2	58 30.3	15 58.0	288.013	+4.284
2.5	20 12 17	-16 20.6	57 35.9	15 43.1	301.643	+3.544
3.5	21 5 55	-13 52.6	56 42.8	15 28.7	314.805	+2.635
4.5	21 56 40	-10 48.5	55 54.6	15 15.5	327.541	+1.620
5.5	22 44 59	-7 20.3	55 14.0	15 4.5	339.918	+0.555
6.5	23 31 30	-3 38.3	54 42.5	14 55.9	352.019	-0.513
7.5	0 16 54	+0 9.0	54 20.9	14 50.0	3.936	-1.541
8.5	1 1 54	+3 54.1	54 9.2	14 46.8	15.757	-2.494
9.5	1 47 11	+7 29.6	54 6.8	14 46.2	27.563	-3.336
10.5	2 33 19	+10 48.3	54 12.8	14 47.8	39.425	-4.037
11.5	3 20 48	+13 42.4	54 25.9	14 51.4	51.400	-4.566
12.5	4 9 54	+16 3.4	54 44.9	14 56.5	63.528	-4.895
13.5	5 0 42	+17 43.0	55 8.3	15 2.9	75.837	-5.003

Tag	Obere Kulmination in Greenwich							ob Länge, + 50° Breite			
	AR.	Ände- rung für 1 <sup>h</sup> westl. Länge	Dekl.	Ände- rung für 1 <sup>h</sup> westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 <sup>h</sup> westl. Länge	Auf- gang	Ände- rung für 1 <sup>h</sup> westl. Länge	Unter- gang	Ände- rung für 1 <sup>h</sup> westl. Länge
1923											
Mai 3	17 <sup>a</sup> 49 <sup>m</sup> 42 <sup>s</sup>	156 <sup>s</sup>	-18 <sup>m</sup> 21.9	- 1.1	59.3	15 <sup>h</sup> 5 <sup>m</sup> 5.8	2.42	10 <sup>h</sup> 28 <sup>m</sup>	2.6	19 <sup>h</sup> 42 <sup>m</sup>	2.4
4	18 50 48	150	-18 12.4	+ 1.9	58.3	16 2.8	2.32	11 26	2.2	20 41	2.5
5	19 49 10	142	-16 55.5	+ 4.4	57.3	16 57.0	2.20	12 14	1.8	21 43	2.6
6	20 44 24	134	-14 43.8	+ 6.4	56.4	17 48.2	2.07	12 55	1.5	22 47	2.7
7	21 36 37	127	-11 50.7	+ 7.9	55.6	18 36.3	1.95	13 29	1.3	23 51	2.7
8	22 26 19	122	- 8 28.6	+ 8.9	55.0	19 22.0	1.86	13 58	1.1	—	—
9	23 14 9	118	- 4 47.9	+ 9.4	54.5	20 5.7	1.79	14 24	1.0	0 54	2.6
10	0 0 49	116	- 0 58.0	+ 9.7	54.2	20 48.4	1.77	14 48	1.0	1 56	2.6
11	0 47 3	116	+ 2 52.8	+ 9.5	54.0	21 30.5	1.76	15 11	1.0	2 58	2.6
12	1 33 31	117	+ 6 36.5	+ 9.1	54.0	22 12.9	1.78	15 35	1.0	3 59	2.5
13	2 20 49	120	+10 4.7	+ 8.2	54.1	22 56.2	1.83	16 0	1.1	5 0	2.5
14	3 9 24	123	+13 8.5	+ 7.0	54.2	23 40.7	1.88	16 28	1.2	6 1	2.5
15	—	—	—	—	—	—	—	16 59	1.4	7 2	2.5
16	3 59 34	127	+15 39.0	+ 5.4	54.5	0 26.8	1.96	17 35	1.6	8 2	2.4
17	4 51 25	132	+17 27.1	+ 3.5	54.9	1 14.6	2.02	18 17	1.9	8 59	2.3
18	5 44 46	135	+18 24.9	+ 1.3	55.3	2 3.8	2.08	19 5	2.1	9 53	2.2
19	6 39 16	137	+18 26.5	- 1.2	55.8	2 54.3	2.12	19 59	2.4	10 42	1.9
20	7 34 25	138	+17 28.8	- 3.6	56.3	3 45.3	2.14	21 0	2.7	11 26	1.7
21	8 29 49	138	+15 32.4	- 6.0	57.0	4 36.6	2.14	22 6	2.8	12 5	1.5
22	9 25 10	138	+12 41.3	- 8.2	57.7	5 27.9	2.13	23 16	3.0	12 39	1.4
23	10 20 29	138	+ 9 2.8	-10.0	58.4	6 19.1	2.14	—	—	13 11	1.3
24	11 16 2	140	+ 4 47.2	-11.2	59.2	7 10.6	2.16	0 29	3.1	13 41	1.2
25	12 12 18	142	+ 0 7.8	-11.9	59.9	8 2.8	2.19	1 44	3.2	14 10	1.2
26	13 9 52	146	- 4 38.6	-11.8	60.4	8 56.3	2.27	3 1	3.2	14 41	1.3
27	14 9 14	151	- 9 12.0	-10.8	60.7	9 51.5	2.34	4 19	3.3	15 14	1.4
28	15 10 37	156	-13 10.7	- 8.9	60.8	10 48.8	2.43	5 38	3.3	15 51	1.7
29	16 13 44	159	-16 13.3	- 6.2	60.6	11 47.8	2.48	6 55	3.1	16 35	2.0
30	17 17 38	160	-18 4.0	- 3.0	60.0	12 47.6	2.49	8 7	2.8	17 25	2.2
31	18 20 57	156	-18 35.5	+ 0.3	59.3	13 46.8	2.44	9 11	2.5	18 22	2.5
Juni 1	19 22 16	150	-17 50.9	+ 3.3	58.4	14 44.1	2.33	10 6	2.1	19 25	2.7
2	20 20 36	142	-16 1.0	+ 5.7	57.5	15 38.3	2.19	10 51	1.7	20 30	2.7
3	21 15 37	133	-13 20.5	+ 7.5	56.6	16 29.2	2.05	11 29	1.4	21 36	2.7
4	22 7 30	126	-10 4.4	+ 8.7	55.7	17 17.1	1.94	12 1	1.2	22 41	2.7
5	22 56 50	121	- 6 25.4	+ 9.4	55.1	18 2.3	1.84	12 28	1.1	23 45	2.6
6	23 44 22	117	- 2 34.4	+ 9.7	54.6	18 45.8	1.79	12 53	1.0	—	—
7	0 30 55	116	+ 1 19.7	+ 9.7	54.3	19 28.3	1.76	13 17	1.0	0 48	2.6
8	1 17 16	116	+ 5 8.9	+ 9.3	54.1	20 10.6	1.77	13 40	1.0	1 50	2.6
9	2 4 9	118	+ 8 45.6	+ 8.7	54.1	20 53.4	1.80	14 4	1.1	2 51	2.5
10	2 52 10	122	+12 1.5	+ 7.6	54.3	21 37.4	1.86	14 31	1.2	3 52	2.5
11	3 41 49	126	+14 47.9	+ 6.2	54.6	22 22.9	1.94	15 1	1.3	4 53	2.5
12	4 33 20	131	+16 55.4	+ 4.4	54.9	23 10.4	2.02	15 35	1.5	5 54	2.5
13	5 26 40	135	+18 14.9	+ 2.2	55.4	23 59.6	2.09	16 14	1.8	6 53	2.4

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1923						
Juni 13.5	5 <sup>h</sup> 0 <sup>m</sup> 42 <sup>s</sup>	+17 43.0	55 8.3	15 2.9	75.837	-5.003
14.5	5 53 1	+18 33.7	55 34.8	15 10.1	88.338	-4.875
15.5	6 46 26	+18 29.9	56 3.5	15 17.9	101.034	-4.504
16.5	7 40 24	+17 29.2	56 33.3	15 26.1	113.923	-3.899
17.5	8 34 22	+15 32.8	57 4.0	15 34.4	127.001	-3.080
18.5	9 28 0	+12 45.5	57 34.9	15 42.9	140.270	-2.082
19.5	10 21 11	+ 9 15.2	58 5.7	15 51.2	153.738	-0.951
20.5	11 14 6	+ 5 12.3	58 35.9	15 59.5	167.417	+0.252
21.5	12 7 10	+ 0 48.9	59 4.2	16 7.2	181.320	+1.461
22.5	13 0 56	- 3 41.1	59 29.0	16 13.9	195.450	+2.601
23.5	13 55 57	- 8 2.2	59 48.2	16 19.2	209.793	+3.593
24.5	14 52 40	-11 57.8	59 59.3	16 22.2	224.307	+4.367
25.5	15 51 10	-15 10.6	60 0.0	16 22.4	238.918	+4.861
26.5	16 51 6	-17 25.7	59 48.8	16 19.4	253.524	+5.038
27.5	17 51 37	-18 32.5	59 25.7	16 13.0	268.007	+4.891
28.5	18 51 33	-18 27.6	58 51.8	16 3.8	282.251	+4.439
29.5	19 49 45	-17 15.4	58 10.0	15 52.4	296.165	+3.731
30.5	20 45 25	-15 6.1	57 23.7	15 39.8	309.691	+2.828
Juli 1.5	21 38 14	-12 13.0	56 36.9	15 27.1	322.811	+1.797
2.5	22 28 22	- 8 49.7	55 53.0	15 15.1	335.545	+0.702
3.5	23 16 17	- 5 8.2	55 15.1	15 4.8	347.942	-0.400
4.5	0 2 36	- 1 18.7	54 45.3	14 56.6	0.074	-1.462
5.5	0 48 3	+ 2 30.2	54 25.0	14 51.1	12.023	-2.445
6.5	1 33 19	+ 6 11.1	54 14.8	14 48.3	23.876	-3.313
7.5	2 19 5	+ 9 37.2	54 14.9	14 48.4	35.719	-4.039
8.5	3 5 57	+12 41.0	54 24.6	14 51.0	47.634	-4.593
9.5	3 54 21	+15 15.0	54 43.0	14 56.0	59.689	-4.951
10.5	4 44 34	+17 10.9	55 8.4	15 2.9	71.939	-5.090
11.5	5 36 35	+18 20.6	55 39.0	15 11.3	84.425	-4.991
12.5	6 30 9	+18 36.9	56 12.7	15 20.5	97.163	-4.644
13.5	7 24 43	+17 55.4	56 47.2	15 29.9	110.157	-4.053
14.5	8 19 39	+16 15.4	57 20.6	15 39.0	123.391	-3.233
15.5	9 14 25	+13 40.6	57 51.2	15 47.3	136.840	-2.220
16.5	10 8 39	+10 18.7	58 17.8	15 54.6	150.476	-1.064
17.5	11 2 18	+ 6 21.0	58 39.9	16 0.6	164.269	+0.170
18.5	11 55 37	+ 2 0.5	58 57.3	16 5.3	178.196	+1.407
19.5	12 49 2	- 2 28.2	59 9.9	16 8.8	192.237	+2.570
20.5	13 43 4	- 6 50.1	59 17.9	16 10.9	206.372	+3.585
21.5	14 38 13	-10 49.8	59 21.0	16 11.8	220.578	+4.386
22.5	15 34 47	-14 12.3	59 18.6	16 11.1	234.823	+4.918
23.5	16 32 43	-16 43.6	59 10.1	16 8.8	249.060	+5.148
24.5	17 31 35	-18 13.1	58 55.0	16 4.7	263.229	+5.062



Tag	Obere Kulmination in Greenwich						ob Länge, + 50° Breite				
	AR.	Ände- rung für 1 <sup>h</sup> westl. Länge	Dekl.	Ände- rung für 1 <sup>h</sup> westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 <sup>h</sup> westl. Länge	Auf- gang	Ände- rung für 1 <sup>h</sup> westl. Länge	Unter- gang	Ände- rung für 1 <sup>h</sup> westl. Länge
1923											
Juni 13	5 <sup>h</sup> 26 <sup>m</sup> 40 <sup>s</sup>	135 <sup>a</sup>	+18° 14.9	+ 2.2	55.4	2 <sup>h</sup> 59 <sup>m</sup> 6 <sup>s</sup>	2.09	16 <sup>h</sup> 14 <sup>m</sup>	1.8	6 <sup>h</sup> 53 <sup>m</sup>	2.4
14	—	—	—	—	—	—	—	17 0	2.1	7 49	2.2
15	6 21 29	138	+18 38.7	— 0.2	55.8	0 50.4	2.13	17 53	2.4	8 40	2.0
16	7 17 12	140	+18 2.3	— 2.8	56.3	1 42.0	2.16	18 53	2.6	9 26	1.8
17	8 13 11	140	+16 25.0	— 5.3	56.9	2 33.9	2.16	19 58	2.8	10 7	1.6
18	9 8 54	139	+13 50.6	— 7.5	57.4	3 25.5	2.14	21 7	2.9	10 43	1.4
19	10 4 7	137	+10 27.0	— 9.4	57.9	4 16.7	2.12	22 18	3.0	11 15	1.3
20	10 58 57	137	+ 6 24.6	—10.7	58.5	5 7.4	2.11	23 31	3.1	11 45	1.2
21	11 53 48	138	+ 1 56.3	—11.5	59.0	5 58.2	2.12	—	—	12 14	1.2
22	12 49 15	140	— 2 43.0	—11.6	59.4	6 49.6	2.17	0 45	3.1	12 43	1.2
23	13 46 0	144	— 7 16.9	—11.0	59.8	7 42.2	2.23	2 1	3.2	13 14	1.3
24	14 44 33	149	—11 26.7	— 9.6	60.0	8 36.7	2.31	3 17	3.2	13 48	1.5
25	15 45 8	154	—14 53.4	— 7.5	60.0	9 33.2	2.39	4 33	3.1	14 27	1.7
26	16 47 23	157	—17 19.3	— 4.6	59.8	10 31.3	2.44	5 46	2.9	15 12	2.0
27	17 50 22	157	—18 31.8	— 1.4	59.4	11 30.2	2.45	6 54	2.7	16 5	2.4
28	18 52 43	154	—18 26.8	+ 1.8	58.9	12 28.4	2.39	7 53	2.3	17 5	2.6
29	19 53 6	148	—17 9.3	+ 4.6	58.1	13 24.7	2.29	8 43	1.9	18 10	2.8
30	20 50 36	140	—14 51.2	+ 6.8	57.3	14 18.1	2.16	9 25	1.6	19 17	2.8
Juli 1	21 44 56	132	—11 47.9	+ 8.4	56.5	15 8.4	2.03	10 0	1.3	20 24	2.8
2	22 36 21	125	— 8 14.4	+ 9.3	55.8	15 55.7	1.92	10 30	1.2	21 30	2.7
3	23 25 25	120	— 4 23.8	+ 9.8	55.1	16 40.7	1.84	10 56	1.1	22 34	2.6
4	0 12 53	117	— 0 26.9	+ 9.9	54.7	17 24.1	1.79	11 21	1.0	23 37	2.6
5	0 59 34	116	+ 3 27.5	+ 9.6	54.4	18 6.8	1.77	11 45	1.0	—	—
6	1 46 15	117	+ 7 11.5	+ 9.0	54.2	18 49.4	1.79	12 9	1.0	0 39	2.6
7	2 33 41	120	+10 37.7	+ 8.1	54.3	19 32.8	1.83	12 34	1.1	1 40	2.5
8	3 22 29	124	+13 38.0	+ 6.9	54.5	20 17.5	1.90	13 2	1.2	2 41	2.5
9	4 13 7	129	+16 3.7	+ 5.2	54.9	21 4.0	1.98	13 34	1.4	3 42	2.5
10	5 5 46	134	+17 45.6	+ 3.2	55.3	21 52.6	2.07	14 11	1.7	4 42	2.4
11	6 0 21	139	+18 34.8	+ 0.8	55.9	22 43.1	2.14	14 54	2.0	5 39	2.3
12	6 56 24	141	+18 24.3	— 1.7	56.5	23 35.1	2.18	15 45	2.3	6 33	2.2
13	—	—	—	—	—	—	—	16 43	2.5	7 22	1.9
14	7 53 14	142	+17 10.7	— 4.4	57.1	0 27.9	2.21	17 47	2.8	8 6	1.7
15	8 50 10	142	+14 55.7	— 6.8	57.6	1 20.7	2.20	18 56	3.0	8 45	1.5
16	9 46 37	140	+11 46.0	— 8.9	58.1	2 13.1	2.17	20 8	3.0	9 19	1.3
17	10 42 25	139	+ 7 52.7	—10.4	58.5	3 4.8	2.14	21 21	3.1	9 50	1.2
18	11 37 43	138	+ 3 29.7	—11.4	58.9	3 56.0	2.13	22 35	3.1	10 19	1.2
19	12 32 56	138	— 1 7.5	—11.6	59.1	4 47.1	2.14	23 50	3.1	10 48	1.2
20	13 28 40	140	— 5 42.3	—11.2	59.3	5 38.8	2.17	—	—	11 18	1.3
21	14 25 31	144	— 9 57.9	—10.0	59.3	6 31.5	2.23	1 5	3.1	11 50	1.4
22	15 23 54	148	—13 37.3	— 8.2	59.3	7 25.8	2.30	2 19	3.0	12 26	1.6
23	16 23 52	152	—16 24.4	— 5.7	59.2	8 21.7	2.35	3 31	2.9	13 8	1.9
24	17 24 58	154	—18 6.4	— 2.8	59.0	9 18.7	2.39	4 39	2.7	13 56	2.1

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1923						
Juli 24.5	17 31 <sup>m</sup> 35 <sup>m</sup> 58 <sup>m</sup> 58 <sup>m</sup>	-18° 13.1	58 55.0	16 4.7	263.229	+5.062
25.5	18 30 33 58 3	-18 34.9	58 32.9	15 58.6	277.262	+4.673
26.5	19 28 36 56 16	-17 49.5	58 4.2	15 50.8	291.090	+4.074
27.5	20 24 52 53 55	-16 3.4	57 30.3	15 41.6	304.656	+3.138
28.5	21 18 47 51 26	-13 27.5	56 53.0	15 31.5	317.918	+2.108
29.5	22 10 13 49 11	-10 14.7	56 14.8	15 21.0	330.861	+0.990
30.5	22 59 24 47 21	- 6 38.0	55 38.3	15 11.1	343.492	-0.153
31.5	23 46 45 46 8	- 2 48.9	55 6.2	15 2.3	355.842	-1.266
Aug. 1.5	0 32 53 45 34	+ 1 2.7	54 40.5	14 55.3	7.964	-2.302
2.5	1 18 27 45 39	+ 4 48.3	54 23.2	14 50.6	19.922	-3.224
3.5	2 4 6 46 19	+ 8 20.6	54 15.4	14 48.5	31.793	-4.000
4.5	2 50 25 47 32	+11 32.7	54 17.8	14 49.2	43.656	-4.605
5.5	3 37 57 49 9	+14 17.4	54 30.6	14 52.6	55.594	-5.015
6.5	4 27 6 50 59	+16 27.3	54 53.1	14 58.8	67.683	-5.210
7.5	5 18 5 52 45	+17 54.7	55 24.2	15 7.2	79.992	-5.171
8.5	6 10 50 54 14	+18 32.2	56 2.0	15 17.5	92.578	-4.885
9.5	7 5 4 55 13	+18 13.7	56 44.1	15 29.0	105.477	-4.348
10.5	8 0 17 55 35	+16 55.9	57 27.2	15 40.8	118.703	-3.568
11.5	8 55 52 55 30	+14 39.6	58 8.2	15 51.9	132.248	-2.571
12.5	9 51 22 55 6	+11 30.6	58 43.9	16 1.6	146.077	-1.402
13.5	10 46 28 54 42	+ 7 39.1	59 11.6	16 9.2	160.138	-0.127
14.5	11 41 10 54 34	+ 3 18.8	59 29.8	16 14.2	174.366	+1.171
15.5	12 35 44 54 45	- 1 14.1	59 38.3	16 16.5	188.691	+2.406
16.5	13 30 29 55 22	- 5 42.9	59 37.6	16 16.3	203.047	+3.493
17.5	14 25 51 56 14	- 9 51.1	59 29.1	16 14.0	217.374	+4.359
18.5	15 22 5 57 8	-13 23.3	59 14.7	16 10.1	231.622	+4.952
19.5	16 19 13 57 47	-16 6.6	58 55.8	16 4.9	245.752	+5.240
20.5	17 17 0 57 52	-17 51.0	58 33.6	15 58.8	259.732	+5.214
21.5	18 14 52 57 10	-18 30.9	58 8.8	15 52.1	273.535	+4.887
22.5	19 12 2 55 46	-18 5.6	57 41.8	15 44.7	287.139	+4.288
23.5	20 7 48 53 52	-16 39.7	57 13.0	15 36.9	300.524	+3.462
24.5	21 1 40 51 43	-14 21.7	56 42.8	15 28.7	313.677	+2.465
25.5	21 53 23 49 40	-11 22.7	56 12.0	15 20.3	326.588	+1.359
26.5	22 43 3 47 56	- 7 54.8	55 41.5	15 12.0	339.258	+0.203
27.5	23 30 59 46 39	- 4 9.5	55 12.9	15 4.2	351.698	-0.941
28.5	0 17 38 45 55	- 0 17.7	54 47.8	14 57.3	3930	-2.024
29.5	1 3 33 45 42	+ 3 31.3	54 27.8	14 51.9	15.989	-3.002
30.5	1 49 15 46 3	+ 7 9.1	54 14.7	14 48.3	27.922	-3.837
31.5	2 35 18 46 53	+10 28.5	54 9.8	14 47.0	39.784	-4.503
Sept. 1.5	3 22 11 48 9	+13 22.3	54 14.2	14 48.2	51.643	-4.977
2.5	4 10 20 49 40	+15 43.6	54 28.7	14 52.1	63.570	-5.239
3.5	5 0 0	+17 25.6	54 53.4	14 58.8	75.642	-5.276



Tag	Obere Kulmination in Greenwich						0 <sup>h</sup> Länge, +50° Breite				
	AR.	Ände- rung für 1 <sup>h</sup> westl. Länge	Dekl.	Ände- rung für 1 <sup>h</sup> westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 <sup>h</sup> westl. Länge	Auf- gang	Ände- rung für 1 <sup>h</sup> westl. Länge	Unter- gang	Ände- rung für 1 <sup>h</sup> westl. Länge
1923											
Juli 24	17 <sup>h</sup> 24 <sup>m</sup> 58 <sup>s</sup>	154°	-18° 6.4	- 2.8	59.0	9 18.7	2.39	4 39 <sup>m</sup> 2.7	13 56 <sup>m</sup> 2.1		
25	18 26 19	153	-18 35.6	+ 0.3	58.6	10 15.9	2.37	5 40 2.4	14 51 2.4		
26	19 26 42	149	-17 52.0	+ 3.3	58.1	11 12.2	2.31	6 34 2.1	15 53 2.7		
27	20 25 7	143	-16 2.8	+ 5.8	57.5	12 6.6	2.21	7 20 1.7	16 59 2.8		
28	21 20 55	136	-13 20.3	+ 7.7	56.9	12 58.3	2.10	7 58 1.4	18 6 2.8		
29	22 13 58	129	- 9 59.3	+ 9.0	56.2	13 47.2	1.99	8 30 1.2	19 12 2.8		
30	23 4 32	124	- 6 13.9	+ 9.7	55.6	14 33.7	1.89	8 58 1.1	20 18 2.7		
31	23 53 10	120	- 2 16.9	+10.0	55.0	15 18.3	1.83	9 24 1.0	21 22 2.6		
Aug. 1	0 40 33	118	+ 1 41.2	+ 9.8	54.6	16 1.6	1.79	9 48 1.0	22 25 2.6		
2	1 27 27	117	+ 5 31.6	+ 9.3	54.3	16 44.5	1.78	10 12 1.0	23 27 2.6		
3	2 14 33	119	+ 9 6.4	+ 8.5	54.3	17 27.5	1.81	10 37 1.1	— —		
4	3 2 33	122	+12 18.1	+ 7.4	54.3	18 11.4	1.86	11 4 1.2	0 28 2.5		
5	3 52 0	126	+14 58.9	+ 5.9	54.6	18 56.8	1.93	11 31 1.3	1 29 2.5		
6	4 43 20	131	+17 0.5	+ 4.1	55.0	19 44.1	2.01	12 8 1.5	2 28 2.4		
7	5 36 42	136	+18 14.2	+ 2.0	55.6	20 33.4	2.10	12 48 1.8	3 26 2.4		
8	6 31 57	140	+18 31.9	- 0.5	56.3	21 24.6	2.16	13 35 2.1	4 22 2.3		
9	7 28 39	143	+17 47.7	- 3.2	57.0	22 17.2	2.21	14 29 2.4	5 14 2.1		
10	8 26 9	144	+15 59.5	- 5.8	57.8	23 10.6	2.23	15 31 2.7	6 1 1.8		
11	— —	—	— —	—	—	— —	—	16 39 2.9	6 42 1.6		
12	9 23 49	144	+13 10.6	- 8.2	58.4	0 4.2	2.22	17 51 3.1	7 19 1.5		
13	10 21 10	143	+ 9 30.1	-10.1	59.0	0 57.4	2.21	19 6 3.2	7 52 1.3		
14	11 18 3	142	+ 5 11.6	-11.3	59.4	1 50.2	2.19	20 22 3.2	8 22 1.2		
15	12 14 37	141	+ 0 32.0	-11.8	59.6	2 42.7	2.18	21 38 3.2	8 52 1.2		
16	13 11 15	142	- 4 10.2	-11.6	59.6	3 35.2	2.20	22 54 3.2	9 22 1.3		
17	14 8 24	144	- 8 36.4	-10.5	59.5	4 28.3	2.23	— —	9 53 1.4		
18	15 6 27	146	-12 29.1	- 8.8	59.3	5 22.3	2.27	0 9 3.1	10 28 1.5		
19	16 5 33	149	-15 32.8	- 6.4	59.0	6 17.3	2.31	1 22 3.0	11 7 1.7		
20	17 5 28	150	-17 35.2	- 3.7	58.6	7 13.1	2.33	2 31 2.7	11 52 2.0		
21	18 5 37	150	-18 28.9	- 0.8	58.2	8 9.1	2.33	3 33 2.4	12 44 2.3		
22	19 5 8	147	-18 12.1	+ 2.1	57.8	9 4.6	2.28	4 28 2.1	13 43 2.5		
23	20 3 10	143	-16 49.1	+ 4.7	57.3	9 58.5	2.20	5 16 1.8	14 46 2.7		
24	20 59 6	137	-14 29.4	+ 6.8	56.7	10 50.4	2.11	5 56 1.5	15 51 2.7		
25	21 52 40	131	-11 25.5	+ 8.4	56.2	11 39.9	2.01	6 30 1.3	16 57 2.8		
26	22 43 58	126	- 7 50.6	+ 9.4	55.7	12 27.1	1.93	6 59 1.2	18 3 2.7		
27	23 33 22	121	- 3 58.0	+ 9.9	55.2	13 12.4	1.85	7 26 1.1	19 8 2.7		
28	0 21 22	119	+ 0 1.0	+ 9.9	54.8	13 56.4	1.81	7 51 1.0	20 12 2.6		
29	1 8 36	118	+ 3 56.1	+ 9.6	54.4	14 39.5	1.79	8 15 1.0	21 14 2.6		
30	1 55 42	118	+ 7 38.5	+ 8.9	54.2	15 22.6	1.80	8 40 1.0	22 15 2.5		
31	2 43 14	120	+11 0.2	+ 7.9	54.2	16 6.0	1.83	9 5 1.1	23 16 2.5		
Sept. 1	3 31 47	123	+13 53.6	+ 6.5	54.3	16 50.5	1.88	9 33 1.2	— —		
2	4 21 47	127	+16 11.2	+ 4.9	54.6	17 36.5	1.95	10 5 1.4	0 16 2.5		
3	5 13 32	132	+17 45.3	+ 2.9	55.0	18 24.1	2.02	10 42 1.7	1 14 2.4		



Mittlere Zeit (Greenwich)	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1923						
Sept. 3.5	5 <sup>h</sup> 0 <sup>m</sup> 0 <sup>s</sup>	51° 20'	+17 25.6	54 53.4	14 58.8	75.642
4.5	5 51 20	51 20	+18 21.4	55 27.7	15 8.2	87.934
5.5	6 44 13	52 53	+18 24.9	56 10.4	15 19.8	100.516
6.5	7 38 24	54 11	+17 31.6	56 59.2	15 33.1	113.445
7.5	8 33 28	55 4	+15 39.8	57 51.0	15 47.2	126.762
8.5	9 29 3	55 35	+12 51.7	58 41.5	16 1.0	140.479
9.5	10 24 48	55 45	+ 9 14.3	59 26.3	16 13.2	154.575
10.5	11 20 37	55 49	+ 4 59.4	60 1.1	16 22.7	168.995
11.5	12 16 34	55 57	+ 0 22.8	60 22.5	16 28.5	183.649
12.5	13 12 50	56 16	- 4 17.1	60 28.9	16 30.3	198.427
13.5	14 9 40	56 50	- 8 41.0	60 20.9	16 28.1	213.207
14.5	15 7 11	57 31	-12 30.8	60 0.5	16 22.5	227.875
15.5	16 5 19	58 8	-15 31.4	59 31.2	16 14.5	242.340
16.5	17 3 43	58 24	-17 32.0	58 56.3	16 5.0	256.539
17.5	18 1 50	58 7	-18 27.2	58 18.9	15 54.9	270.438
18.5	18 58 59	57 9	-18 16.8	57 41.5	15 44.7	284.031
19.5	19 54 34	55 35	-17 5.4	57 5.6	15 34.9	297.330
20.5	20 48 10	53 36	-15 1.1	56 31.8	15 25.7	310.358
21.5	21 39 41	51 31	-12 14.1	56 0.7	15 17.2	323.142
22.5	22 29 14	49 33	- 8 55.4	55 32.4	15 9.5	335.710
23.5	23 17 8	47 54	- 5 15.9	55 6.9	15 2.5	348.090
24.5	0 3 50	46 42	- 1 26.1	54 44.6	14 56.5	0.308
25.5	0 49 47	45 57	+ 2 24.6	54 26.1	14 51.4	12.387
26.5	1 35 30	45 43	+ 6 7.1	54 12.1	14 47.6	24.356
27.5	2 21 26	45 56	+ 9 33.4	54 3.8	14 45.3	36.246
28.5	3 8 1	46 35	+12 36.1	54 2.1	14 44.9	48.095
29.5	3 55 34	47 33	+15 7.8	54 8.3	14 46.6	59.950
30.5	4 44 20	48 46	+17 2.1	54 23.3	14 50.7	71.866
Okt. 1.5	5 34 26	50 6	+18 12.6	54 47.8	14 57.3	83.907
2.5	6 25 50	51 24	+18 34.0	55 21.9	15 6.6	96.143
3.5	7 18 23	52 33	+18 2.0	56 5.1	15 18.4	108.649
4.5	8 11 52	53 29	+16 34.3	56 56.1	15 32.3	121.496
5.5	9 6 3	54 11	+14 11.1	57 52.2	15 47.6	134.746
6.5	10 0 46	54 43	+10 56.1	58 49.6	16 3.2	148.442
7.5	10 56 1	55 15	+ 6 57.1	59 43.5	16 17.9	162.594
8.5	11 51 53	55 52	+ 2 26.5	60 28.2	16 30.1	177.169
9.5	12 48 37	56 44	- 2 18.9	60 58.6	16 38.4	192.082
10.5	13 46 25	57 48	- 6 59.2	61 11.1	16 41.8	207.205
11.5	14 45 22	58 57	-11 13.2	61 4.7	16 40.0	222.376
12.5	15 45 19	59 57	-14 41.1	60 40.7	16 33.5	237.426
13.5	16 45 44	60 25	-17 8.0	60 3.2	16 23.3	252.212
14.5	17 45 50	60 6	-18 25.5	59 17.0	16 10.7	266.629

Tag	Obere Kulmination in Greenwich							☾ Länge, + 50° Breite			
	AR.	Ände- rung für 1 <sup>h</sup> westl. Länge	Dekl.	Ände- rung für 1 <sup>h</sup> westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 <sup>h</sup> westl. Länge	Auf- gang	Ände- rung für 1 <sup>h</sup> westl. Länge	Unter- gang	Ände- rung für 1 <sup>h</sup> westl. Länge
1923											
Sept. 3	5 <sup>h</sup> 13 <sup>m</sup> 32 <sup>s</sup>	132	+17 45.3	+ 2.9	55.0	18 <sup>h</sup> 24.1	2.02	10 <sup>h</sup> 42 <sup>m</sup>	1.7	1 <sup>h</sup> 14 <sup>m</sup>	2.4
4	6 7 6	136	+18 28.2	+ 0.6	55.7	19 13.6	2.10	11 25	1.9	2 10	2.3
5	7 2 20	140	+18 13.5	- 1.9	56.4	20 4.8	2.16	12 15	2.2	3 3	2.1
6	7 58 52	143	+16 56.7	- 4.5	57.3	20 57.2	2.21	13 13	2.6	3 51	1.9
7	8 56 13	144	+14 37.4	- 7.1	58.2	21 50.5	2.23	14 18	2.8	4 34	1.7
8	9 53 59	145	+11 20.0	- 9.3	59.0	22 44.1	2.24	15 28	3.0	5 13	1.5
9	10 51 51	145	+ 7 14.6	-11.0	59.7	23 37.9	2.24	16 43	3.2	5 48	1.4
10	—	—	—	—	—	—	—	18 0	3.2	6 20	1.3
11	11 49 48	145	+ 2 36.6	-12.0	60.2	0 31.8	2.25	19 18	3.3	6 51	1.3
12	12 48 0	146	- 2 14.7	-12.1	60.5	1 25.9	2.26	20 37	3.3	7 22	1.3
13	13 46 43	148	- 6 57.9	-11.3	60.4	2 20.5	2.29	21 55	3.2	7 54	1.4
14	14 46 10	150	-11 12.1	- 9.7	60.2	3 15.9	2.32	23 11	3.1	8 28	1.5
15	15 46 22	151	-14 38.8	- 7.4	59.7	4 12.0	2.35	—	—	9 7	1.7
16	16 47 2	152	-17 4.1	- 4.6	59.1	5 8.5	2.36	0 22	2.8	9 51	2.0
17	17 47 35	151	-18 19.8	- 1.7	58.5	6 5.0	2.34	1 27	2.6	10 41	2.2
18	18 47 13	147	-18 24.2	+ 1.3	57.8	7 0.5	2.28	2 25	2.2	11 37	2.4
19	19 45 13	143	-17 21.5	+ 3.9	57.2	7 54.5	2.20	3 14	1.9	12 38	2.6
20	20 41 5	137	-15 20.5	+ 6.1	56.6	8 46.2	2.11	3 56	1.6	13 42	2.7
21	21 34 37	131	-12 32.4	+ 7.8	56.1	9 35.7	2.02	4 31	1.4	14 47	2.7
22	22 25 57	126	- 9 9.5	+ 9.0	55.6	10 23.0	1.93	5 2	1.2	15 52	2.7
23	23 15 27	122	- 5 24.0	+ 9.7	55.1	11 8.4	1.86	5 29	1.1	16 57	2.7
24	0 3 35	119	- 1 27.3	+ 9.9	54.7	11 52.5	1.82	5 54	1.0	18 0	2.6
25	0 50 55	118	+ 2 30.2	+ 9.8	54.4	12 35.7	1.79	6 18	1.0	19 3	2.6
26	1 38 0	118	+ 6 18.9	+ 9.2	54.2	13 18.7	1.79	6 42	1.0	20 5	2.6
27	2 25 21	119	+ 9 49.9	+ 8.3	54.1	14 2.0	1.82	7 7	1.1	21 6	2.5
28	3 13 26	122	+12 55.3	+ 7.1	54.0	14 46.1	1.86	7 34	1.2	22 6	2.5
29	4 2 38	125	+15 27.1	+ 5.5	54.2	15 31.2	1.91	8 5	1.4	23 5	2.4
30	4 53 12	128	+17 18.1	+ 3.7	54.5	16 17.7	1.97	8 40	1.6	—	—
Okt. 1	5 45 15	132	+18 21.4	+ 1.6	54.9	17 5.7	2.03	9 20	1.8	0 1	2.3
2	6 38 42	135	+18 31.2	- 0.8	55.5	17 55.0	2.08	10 6	2.1	0 54	2.1
3	7 33 22	138	+17 43.0	- 3.3	56.3	18 45.6	2.13	10 59	2.4	1 43	1.9
4	8 29 0	140	+15 54.7	- 5.8	57.2	19 37.2	2.16	11 59	2.6	2 27	1.7
5	9 25 21	142	+13 7.7	- 8.1	58.2	20 29.4	2.19	13 5	2.9	3 7	1.6
6	10 22 16	143	+ 9 27.4	-10.2	59.2	21 22.3	2.21	14 16	3.1	3 43	1.4
7	11 19 49	145	+ 5 4.4	-11.6	60.1	22 15.7	2.24	15 31	3.2	4 16	1.3
8	12 18 10	147	+ 0 14.4	-12.4	60.7	23 10.0	2.28	16 49	3.3	4 47	1.3
9	—	—	—	—	—	—	—	18 9	3.4	5 18	1.3
10	13 17 35	150	- 4 42.1	-12.2	61.1	0 5.3	2.33	19 30	3.4	5 50	1.4
11	14 18 17	153	- 9 21.7	-11.0	61.2	1 1.9	2.38	20 50	3.3	6 24	1.5
12	15 20 14	156	-13 21.1	- 8.8	60.9	1 59.8	2.43	22 7	3.1	7 1	1.7
13	16 23 0	157	-16 20.6	- 6.0	60.3	2 58.4	2.45	23 18	2.8	7 44	1.9
14	17 25 47	156	-18 7.5	- 2.9	59.6	3 57.1	2.43	—	—	8 34	2.2

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1923						
Okt. 14.5	17 <sup>h</sup> 45 <sup>m</sup> 50 <sup>s</sup>	-18° 25.5	59 17.0	16 10.7	266.629	+4.980
15.5	18 44 43	-18 32.6	58 27.0	15 57.1	280.625	+4.491
16.5	19 41 37	-17 34.5	57 37.4	15 43.5	294.196	+3.762
17.5	20 36 5	-15 40.5	56 50.9	15 30.9	307.370	+2.852
18.5	21 28 3	-13 1.7	56 9.5	15 19.6	320.198	+1.820
19.5	22 17 45	-9 49.5	55 33.9	15 9.9	332.741	+0.724
20.5	23 5 35	-6 14.7	55 4.3	15 1.8	345.059	-0.386
21.5	23 52 5	-2 27.0	54 40.5	14 55.3	357.208	-1.460
22.5	0 37 48	+1 24.2	54 22.1	14 50.3	9.235	-2.456
23.5	1 23 17	+5 10.3	54 8.7	14 46.7	21.177	-3.334
24.5	2 9 1	+8 43.2	54 0.4	14 44.4	33.067	-4.060
25.5	2 55 23	+11 54.8	53 57.1	14 43.5	44.931	-4.607
26.5	3 42 42	+14 37.4	53 59.3	14 44.1	56.794	-4.954
27.5	4 31 8	+16 43.9	54 7.7	14 46.4	68.684	-5.087
28.5	5 20 44	+18 7.8	54 23.0	14 50.6	80.638	-4.999
29.5	6 11 22	+18 43.9	54 45.9	14 56.8	92.699	-4.688
30.5	7 2 51	+18 28.5	55 17.1	15 5.3	104.922	-4.161
31.5	7 54 56	+17 19.7	55 56.5	15 16.1	117.370	-3.429
Nov. 1.5	8 47 27	+15 17.8	56 43.8	15 28.9	130.114	-2.511
2.5	9 40 19	+12 25.4	57 37.4	15 43.5	143.224	-1.437
3.5	10 33 37	+8 48.1	58 34.6	15 59.1	156.761	-0.249
4.5	11 27 38	+4 34.3	59 31.3	16 14.6	170.766	+0.991
5.5	12 22 44	-0 3.4	60 22.2	16 28.4	185.240	+2.207
6.5	13 19 21	-4 48.5	61 1.6	16 39.2	200.131	+3.306
7.5	14 17 48	-9 20.8	61 24.3	16 45.3	215.329	+4.193
8.5	15 18 8	-13 18.4	61 26.8	16 46.1	230.169	+4.786
9.5	16 19 55	-16 20.9	61 8.9	16 41.2	245.959	+5.035
10.5	17 22 16	-18 13.4	60 33.2	16 31.4	261.011	+4.929
11.5	18 23 56	-18 49.8	59 44.5	16 18.2	275.679	+4.499
12.5	19 23 41	-18 12.9	58 48.7	16 2.9	289.874	+3.800
13.5	20 20 42	-16 32.3	57 51.1	15 47.3	303.570	+2.902
14.5	21 14 39	-14 1.2	56 56.3	15 32.3	316.750	+1.875
15.5	22 5 41	-10 53.0	56 7.2	15 19.0	329.593	+0.785
16.5	22 54 18	-7 20.0	55 25.8	15 7.7	342.056	-0.315
17.5	23 41 7	-3 32.7	54 52.7	14 58.7	354.260	-1.377
18.5	0 26 49	+0 19.8	54 27.9	14 51.9	6.284	-2.359
19.5	1 12 3	+4 9.2	54 10.9	14 47.3	18.197	-3.226
20.5	1 57 27	+7 47.9	54 1.1	14 44.6	30.057	-3.946
21.5	2 43 29	+11 7.9	53 57.5	14 43.6	41.907	-4.494
22.5	3 30 33	+14 1.5	53 59.5	14 44.2	53.781	-4.846
23.5	4 18 50	+16 21.0	54 6.7	14 46.1	65.702	-4.988
24.5	5 8 23	+17 59.2	54 18.7	14 49.4	77.691	-4.909



Tag	Obere Kulmination in Greenwich						ob Länge, + 50° Breite				
	AR.	Ände- rung für 1 <sup>h</sup> westl. Länge	Dekl.	Ände- rung für 1 <sup>h</sup> westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 <sup>h</sup> westl. Länge	Auf- gang	Ände- rung für 1 <sup>h</sup> westl. Länge	Unter- gang	Ände- rung für 1 <sup>h</sup> westl. Länge
1923											
Okt. 14	17 <sup>a</sup> 25 <sup>m</sup> 47 <sup>s</sup>	156 <sup>s</sup>	-18° 7.5'	- 2.9	59.6	3 <sup>h</sup> 57 <sup>m</sup> 1 <sup>s</sup>	2.43	—	—	8 <sup>h</sup> 34 <sup>m</sup> 2 <sup>s</sup>	2.2
15	18 27 30	152	-18 37.7	+ 0.3	58.7	4 54.7	2.36	0 20	2.4	9 30	2.4
16	19 27 14	146	-17 55.2	+ 3.2	57.8	5 50.4	2.27	1 13	2.0	10 30	2.6
17	20 24 20	139	-16 9.8	+ 5.5	57.0	6 43.4	2.15	1 57	1.7	11 34	2.7
18	21 18 37	132	-13 34.0	+ 7.4	56.3	7 33.6	2.04	2 34	1.4	12 39	2.7
19	22 10 20	126	-10 20.4	+ 8.7	55.6	8 21.2	1.94	3 6	1.2	13 44	2.7
20	22 59 54	122	- 6 41.4	+ 9.5	55.1	9 6.7	1.86	3 34	1.1	14 48	2.7
21	23 47 56	119	- 2 47.7	+ 9.9	54.7	9 50.7	1.81	3 59	1.0	15 52	2.7
22	0 35 4	117	+ 1 10.4	+ 9.9	54.4	10 33.8	1.79	4 23	1.0	16 55	2.6
23	1 21 55	117	+ 5 3.7	+ 9.5	54.2	11 16.5	1.78	4 47	1.0	17 57	2.6
24	2 9 0	118	+ 8 43.1	+ 8.7	54.0	11 59.6	1.80	5 11	1.0	18 58	2.5
25	2 56 47	121	+12 0.1	+ 7.6	54.0	12 43 3	1.84	5 37	1.1	19 59	2.5
26	3 45 38	124	+14 46.2	+ 6.2	54.0	13 28.1	1.89	6 6	1.3	20 59	2.4
27	4 35 43	127	+16 53.6	+ 4.4	54.1	14 14.1	1.95	6 39	1.5	21 56	2.3
28	5 27 3	130	+18 15.1	+ 2.4	54.4	15 1.4	1.99	7 17	1.7	22 50	2.2
29	6 19 32	132	+18 45.0	+ 0.1	54.8	15 49.8	2.04	8 0	1.9	23 40	2.0
30	7 12 54	134	+18 19.4	- 2.3	55.4	16 39.1	2.07	8 50	2.2	—	—
31	8 6 54	136	+16 56.5	- 4.6	56.1	17 29.0	2.09	9 46	2.5	0 25	1.8
Nov. 1	9 1 20	137	+14 37.1	- 6.9	57.0	18 19.3	2.11	10 48	2.7	1 5	1.6
2	9 56 11	138	+11 24.9	- 9.0	57.9	19 10.1	2.13	11 55	2.9	1 41	1.4
3	10 51 35	140	+ 7 26.7	-10.7	58.9	20 1.4	2.15	13 6	3.0	2 14	1.3
4	11 47 54	142	+ 2 53.4	-11.9	59.9	20 53.7	2.20	14 21	3.2	2 45	1.3
5	12 45 37	147	- 1 59.8	-12.4	60.7	21 47.3	2.27	15 38	3.3	3 15	1.2
6	13 45 12	152	- 6 52.9	-11.9	61.2	22 42.8	2.35	16 58	3.4	3 45	1.3
7	14 46 55	157	-11 22.0	-10.4	61.5	23 40.4	2.45	18 19	3.4	4 17	1.4
8	—	—	—	—	—	—	—	19 40	3.3	4 52	1.6
9	15 50 36	161	-15 2.7	- 7.9	61.3	0 40.0	2.51	20 57	3.1	5 33	1.8
10	16 55 28	163	-17 34.2	- 4.7	60.8	1 40.7	2.54	22 6	2.7	6 21	2.1
11	18 0 10	160	-18 44.7	- 1.2	60.1	2 41.3	2.50	23 5	2.3	7 16	2.4
12	19 3 14	155	-18 33.5	+ 2.1	59.1	3 40.3	2.40	23 55	1.9	8 17	2.6
13	20 3 28	147	-17 9.3	+ 4.8	58.1	4 36.4	2.27	—	—	9 22	2.8
14	21 0 18	138	- 14 46.4	+ 7.0	57.2	5 29.2	2.13	0 36	1.6	10 29	2.8
15	21 53 50	130	-11 40.3	+ 8.5	56.3	6 18.6	1.99	1 10	1.3	11 35	2.7
16	22 44 31	124	- 8 5.1	+ 9.4	55.6	7 5.2	1.89	1 39	1.1	12 40	2.7
17	23 33 4	119	- 4 12.8	+ 9.9	55.0	7 49.7	1.82	2 5	1.0	13 44	2.6
18	0 20 17	117	- 0 13.6	+10.0	54.5	8 32.9	1.78	2 29	1.0	14 47	2.6
19	1 6 53	116	+ 3 43.4	+ 9.7	54.2	9 15.4	1.77	2 52	1.0	15 49	2.6
20	1 53 35	117	+ 7 30.0	+ 9.1	54.0	9 58.0	1.79	3 16	1.0	16 50	2.5
21	2 40 57	120	+10 57.6	+ 8.1	54.0	10 41.3	1.82	3 41	1.1	17 51	2.5
22	3 29 25	123	+13 57.8	+ 6.8	54.0	11 25.7	1.88	4 9	1.2	18 51	2.5
23	4 19 14	126	+16 22.0	+ 5.1	54.1	12 11.5	1.93	4 40	1.4	19 50	2.4
24	5 10 26	130	+18 2.3	+ 3.2	54.3	12 58.6	1.99	5 16	1.6	20 46	2.3

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1923						
Nov. 24.5	5 <sup>h</sup> 8 <sup>m</sup> 23 <sup>s</sup> 50 38	+17 59.2 0 50.9	54 18.7 17.0	14 49.4 4.6	77.691	-4.909
25.5	5 59 1 51 24	+18 50.1 0 0.5	54 35.7 22.1	14 54.0 6.1	89.766	-4.611
26.5	6 50 25 51 48	+18 49.6 0 53.9	54 57.8 27.8	15 0.1 7.5	101.951	-4.099
27.5	7 42 13 51 53	+17 55.7 1 46.4	55 25.6 33.7	15 7.6 9.2	114.278	-3.390
28.5	8 34 6 51 48	+16 9.3 2 35.8	55 59.3 39.7	15 16.8 10.8	126.788	-2.506
29.5	9 25 54 51 45	+13 33.5 3 19.7	56 39.0 45.0	15 27.6 12.3	139.533	-1.480
30.5	10 17 39 51 58	+10 13.8 3 56.1	57 24.0 48.9	15 39.9 13.3	152.573	-0.354
Dez. 1.5	11 9 37 52 40	+ 6 17.7 4 22.7	58 12.9 50.2	15 53.2 13.7	165.966	+0.823
2.5	12 2 17 53 57	+ 1 55.0 4 36.7	59 3 1 47.8	16 6.9 13.0	179.761	+1.986
3.5	12 56 14 55 48	- 2 41.7 4 34.8	59 50.9 40.6	16 19.9 11.1	193.983	+3.061
4.5	13 52 2 58 7	- 7 16.5 4 13.8	60 31.5 28.3	16 31.0 7.7	208.613	+3.967
5.5	14 50 9 60 29	-11 30.3 3 32.2	60 59.8 11.8	16 38.7 3.2	223.582	+4.624
6.5	15 50 38 62 19	-15 2.5 2 31.2	61 11.6 7.3	16 41.9 2.0	238.761	+4.965
7.5	16 52 57 63 4	-17 33.7 1 16.7	61 4.3 25.8	16 39.9 7.0	253.980	+4.957
8.5	17 56 1 62 18	-18 50.4 0 2.1	60 38.5 41.5	16 32.9 11.3	269.054	+4.603
9.5	18 58 19 60 7	-18 48.3 1 15.5	59 57.0 52.3	16 21.6 14.3	283.817	+3.945
10.5	19 58 26 57 3	-17 32.8 2 16.2	59 4.7 57.4	16 7.3 15.6	298.148	+3.052
11.5	20 55 29 53 45	-15 16.6 3 1.5	58 7.3 57.2	15 51.7 15.6	311.988	+2.004
12.5	21 49 14 50 40	-12 15.1 3 31.7	57 10.1 53.0	15 36.1 14.4	325.336	+0.879
13.5	22 39 54 48 14	- 8 43.4 3 48.9	56 17.1 45.6	15 21.7 12.5	338.232	-0.257
14.5	23 28 8 46 29	- 4 54.5 3 55.8	55 31.5 36.6	15 9.2 9.9	350.747	-1.348
15.5	0 14 37 45 32	- 0 58.7 3 53.9	54 54.9 26.8	14 59.3 7.3	2.965	-2.351
16.5	1 0 9 45 18	+ 2 55.2 3 44.4	54 28.1 17.1	14 52.0 4.7	14.975	-3.232
17.5	1 45 27 45 41	+ 6 39.6 3 27.7	54 11.0 8.0	14 47.3 2.2	26.862	-3.962
18.5	2 31 8 46 38	+10 7.3 3 3.9	54 3.0 0.3	14 45.1 0.1	38.699	-4.517
19.5	3 17 46 47 54	+13 11.2 2 32.4	54 3.3 7.3	14 45.2 2.0	50.550	-4.878
20.5	4 5 40 49 21	+15 43.6 1 53.4	54 10.6 13.1	14 47.2 3.6	62.464	-5.028
21.5	4 55 1 50 42	+17 37.0 1 7.5	54 23.7 17.7	14 50.8 4.8	74.475	-4.958
22.5	5 45 43 51 45	+18 44.5 0 16.0	54 41.4 21.5	14 55.6 5.8	86.608	-4.663
23.5	6 37 28 52 20	+19 0.5 0 38.3	55 2.9 24.4	15 1.4 6.7	98.876	-4.150
24.5	7 29 48 52 25	+18 22.2 1 32.7	55 27.3 27.1	15 8.1 7.4	111.289	-3.433
25.5	8 22 13 52 9	+16 49.5 2 23.6	55 54.4 29.5	15 15.5 8.0	123.859	-2.539
26.5	9 14 22 51 41	+14 25.9 3 8.6	56 23.9 31.9	15 23.5 8.7	136.601	-1.504
27.5	10 6 3 51 23	+11 17.3 3 45.3	56 55.8 34.1	15 32.2 9.3	149.537	-0.374
28.5	10 57 26 51 24	+ 7 32.0 4 11.9	57 29.9 35.8	15 41.5 9.8	162.696	+0.798
29.5	11 48 50 52 0	+ 3 20.1 4 27.2	58 5.7 36.5	15 51.3 9.9	176.114	+1.950
30.5	12 40 50 53 15	- 1 7.1 4 29.1	58 42.2 35.2	16 1.2 9.6	189.822	+3.016
31.5	13 34 5	- 5 36.2	59 17.4	16 10.8	203.840	+3.926

Tag	Obere Kulmination in Greenwich						o <sup>h</sup> Länge, + 50° Breite				
	AR.	Ände- rung für 1 <sup>h</sup> westl. Länge	Dekl.	Ände- rung für 1 <sup>h</sup> westl. Länge	Parallaxe	Zeit des Durch- gangs	Ände- rung für 1 <sup>h</sup> westl. Länge	Auf- gang	Ände- rung für 1 <sup>h</sup> westl. Länge	Unter- gang	Ände- rung für 1 <sup>h</sup> westl. Länge
1923											
Nov. 24	5 <sup>h</sup> 10 <sup>m</sup> 26 <sup>s</sup> 130 <sup>s</sup>		+18° 2.3	+ 3.2	54.3	12 <sup>h</sup> 58 <sup>m</sup> .6	1.99	5 <sup>h</sup> 16 <sup>m</sup> 1.6		20 <sup>h</sup> 46 <sup>m</sup> 2.3	
25	6 2 49 132		+18 51.9	+ 0.9	54.6	13 46.9	2.03	5 57 1.8		21 38 2.1	
26	6 56 1 134		+18 46.3	- 1.4	55.0	14 36.1	2.06	6 45 2.1		22 25 1.8	
27	7 49 38 134		+17 43.7	- 3.8	55.5	15 25.6	2.07	7 39 2.4		23 7 1.6	
28	8 43 18 134		+15 45.2	- 6.1	56.1	16 15.2	2.06	8 38 2.6		23 44 1.5	
29	9 36 51 134		+12 54.7	- 8.1	56.8	17 4.7	2.06	9 42 2.8		— —	
30	10 30 24 134		+ 9 18.8	- 9.8	57.6	17 54.1	2.07	10 50 2.9		0 17 1.3	
Dez. 1	11 24 18 136		+ 5 6.2	-11.1	58.4	18 44.0	2.09	12 1 3.0		0 47 1.2	
2	12 19 9 139		+ 0 28.5	-11.9	59.3	19 34.7	2.14	13 14 3.1		1 15 1.2	
3	13 15 38 144		- 4 19.6	-12.0	60.1	20 27.1	2.23	14 30 3.2		1 43 1.2	
4	14 14 25 150		- 8 59.1	-11.2	60.7	21 21.8	2.33	15 48 3.3		2 13 1.3	
5	15 15 53 157		-13 7.9	- 9.4	61.1	22 19.2	2.45	17 8 3.3		2 45 1.4	
6	16 19 51 162		-16 22.4	- 6.7	61.2	23 19.0	2.54	18 27 3.2		3 22 1.7	
7	— — —		— — —	—	—	— — —	—	19 41 3.0		4 5 2.0	
8	17 25 23 165		-18 23.0	- 3.3	60.9	0 20.5	2.57	20 48 2.6		4 56 2.3	
9	18 30 54 162		-18 58.8	+ 0.3	60.3	1 21.9	2.53	21 45 2.2		5 55 2.6	
10	19 34 37 156		-18 11.3	+ 3.6	59.4	2 21.5	2.43	22 32 1.8		7 1 2.8	
11	20 35 11 147		-16 12.0	+ 6.2	58.5	3 17.9	2.27	23 10 1.5		8 10 2.9	
12	21 32 4 138		-13 18.3	+ 8.1	57.5	4 10.7	2.12	23 42 1.2		9 19 2.8	
13	22 25 25 129		- 9 47.5	+ 9.3	56.5	5 0.0	1.99	— — —		10 26 2.8	
14	23 15 49 123		- 5 54.9	+10.0	55.7	5 46.3	1.88	0 9 1.1		11 32 2.7	
15	0 4 6 119		- 1 52.8	+10.1	55.0	6 30.6	1.81	0 34 1.0		12 36 2.6	
16	0 51 8 117		+ 2 9.2	+10.0	54.5	7 13.5	1.78	0 58 1.0		13 39 2.6	
17	1 37 46 117		+ 6 2.5	+ 9.4	54.2	7 56.1	1.78	1 21 1.0		14 41 2.6	
18	2 24 43 118		+ 9 39.6	+ 8.6	54.1	8 39.0	1.80	1 46 1.1		15 42 2.5	
19	3 12 37 121		+12 52.5	+ 7.4	54.0	9 22.8	1.85	2 12 1.2		16 43 2.5	
20	4 1 53 125		+15 33.1	+ 5.9	54.2	10 8.0	1.91	2 42 1.3		17 43 2.4	
21	4 52 45 129		+17 32.9	+ 4.0	54.4	10 54.8	1.98	3 16 1.5		18 40 2.3	
22	5 45 7 133		+18 44.0	+ 1.9	54.7	11 43.1	2.04	3 55 1.8		19 34 2.2	
23	6 38 39 135		+19 0.3	- 0.5	55.1	12 32.6	2.08	4 41 2.0		20 24 2.0	
24	7 32 49 136		+18 18.3	- 3.0	55.5	13 22.7	2.09	5 33 2.3		21 8 1.7	
25	8 27 3 135		+16 38.3	- 5.3	55.9	14 12.8	2.08	6 31 2.5		21 47 1.5	
26	9 20 57 134		+14 4.3	- 7.5	56.3	15 2.6	2.07	7 34 2.7		22 21 1.3	
27	10 14 21 133		+10 43.2	- 9.2	57.0	15 52.0	2.05	8 41 2.8		22 52 1.2	
28	11 7 27 133		+ 6 44.6	-10.6	57.6	16 41.0	2.04	9 50 2.9		23 20 1.1	
29	12 0 41 134		+ 2 19.7	-11.4	58.2	17 30.1	2.06	11 1 3.0		23 47 1.1	
30	12 54 45 137		- 2 18.5	-11.7	58.9	18 20.1	2.11	12 14 3.1		— —	
31	13 50 23 142		- 6 54.9	-11.2	59.5	19 11.7	2.19	13 29 3.2		0 15 1.2	



Mittlere Zeit Greenwich	Mondbewegung			Lage des Mondäquators gegen den Erdäquator			
	$\Omega$	$L_{\alpha}$	$M_{\alpha}$	$i$	$\Delta$	$\Omega'$	$\Delta - \delta$
1923							
Jan. - 5.5	174.6584	359.7109	170.21	24.979	354.967	359.661	0.309
+ 4.5	174.1288	131.4748	300.86	24.977	354.468	359.627	0.340
14.5	173.5993	263.2388	71.50	24.976	353.969	359.594	0.370
24.5	173.0697	35.0028	202.15	24.975	353.470	359.560	0.401
Febr. 3.5	172.5402	166.7667	332.80	24.973	352.971	359.527	0.432
13.5	172.0106	298.5307	103.45	24.972	352.472	359.493	0.462
23.5	171.4811	70.2947	234.10	24.970	351.973	359.460	0.493
März 5.5	170.9516	202.0586	4.75	24.968	351.474	359.427	0.523
15.5	170.4220	333.8226	135.40	24.966	350.975	359.393	0.553
25.5	169.8925	105.5866	266.05	24.963	350.475	359.360	0.584
April 4.5	169.3629	237.3505	36.70	24.961	349.976	359.327	0.614
14.5	168.8334	9.1145	167.35	24.958	349.477	359.294	0.644
24.5	168.3039	140.8785	208.00	24.955	348.977	359.260	0.675
Mai 4.5	167.7743	272.6425	68.65	24.953	348.478	359.227	0.705
14.5	167.2448	44.4064	199.30	24.950	347.978	359.194	0.735
24.5	166.7152	176.1704	329.95	24.947	347.479	359.161	0.765
Juni 3.5	166.1857	307.9344	100.60	24.944	346.979	359.128	0.795
13.5	165.6562	79.6983	231.25	24.940	346.480	359.096	0.825
23.5	165.1266	211.4623	1.90	24.937	345.980	359.063	0.855
Juli 3.5	164.5971	343.2263	132.55	24.934	345.480	359.030	0.884
13.5	164.0675	114.9902	263.20	24.930	344.981	358.998	0.914
23.5	163.5380	246.7542	33.85	24.926	344.481	358.965	0.944
Aug. 2.5	163.0085	18.5182	164.50	24.922	343.981	358.933	0.973
12.5	162.4789	150.2822	295.15	24.918	343.481	358.900	1.003
22.5	161.9494	282.0461	65.80	24.914	342.981	358.868	1.033
Sept. 1.5	161.4198	53.8101	196.45	24.909	342.480	358.836	1.062
11.5	160.8903	185.5741	327.10	24.905	341.980	358.803	1.091
21.5	160.3608	317.3380	97.75	24.901	341.480	358.771	1.121
Okt. 1.5	159.8312	89.1020	228.40	24.897	340.979	358.739	1.150
11.5	159.3017	220.8660	359.05	24.892	340.479	358.707	1.179
21.5	158.7721	352.6300	129.70	24.887	339.978	358.676	1.208
31.5	158.2426	124.3939	260.35	24.882	339.477	358.644	1.237
Nov. 10.5	157.7131	256.1579	31.00	24.877	338.977	358.612	1.266
20.5	157.1835	27.9219	161.65	24.872	338.476	358.581	1.294
30.5	156.6540	159.6858	292.30	24.867	337.975	358.549	1.323
Dez. 10.5	156.1244	291.4498	62.95	24.861	337.474	358.518	1.352
20.5	155.5949	63.2138	193.60	24.856	336.973	358.487	1.380
30.5	155.0654	194.9778	324.25	24.850	336.472	358.456	1.408
40.5	154.5358	326.7417	94.90	24.844	335.970	358.425	1.436

Mittlere Zeit Greenwich	$\alpha_c - \alpha_k$	$\delta_c - \delta_k$	$\log \sin p_k$
1923			
Jan. 0.5	— 1.49 +1.14 — 0.28	+154.2 + 4.6 — 7.2	8.21635 +507
1.5	— 0.35 +0.86 — 0.48	+158.8 — 2.6 — 6.0	8.22142 +476 — 31
2.5	+ 0.51 +0.38 — 0.53	+156.2 — 8.6 — 4.3	8.22618 +421 — 55
3.5	+ 0.89 — 0.15 — 0.53	+147.6 — 12.9 — 2.6	8.23039 +342 — 79
4.5	+ 0.74 — 0.70 — 0.55	+134.7 — 15.5 — 1.6	8.23381 +250 — 92
5.5	+ 0.04 — 1.17 — 0.47	+119.2 — 17.1 — 0.5	8.23631 +157 — 93
6.5	— 1.13 — 1.49 — 0.32	+102.1 — 17.6 — 0.8	8.23788 + 72 — 85
7.5	— 2.62 — 1.68 — 0.19	+ 84.5 — 18.4 — 1.0	8.23860 0 — 72
8.5	— 4.30 — 1.73 — 0.05	+ 66.1 — 19.4 — 1.0	8.23860 — 61 — 61
9.5	— 6.03 — 1.66 +0.07	+ 46.7 — 20.4 — 1.0	8.23799 — 113 — 52
10.5	— 7.69	+ 26.3	8.23686
Jan. 24.5	— 5.08 +1.21 +0.18	+ 96.6 +25.0 — 5.1	8.20103 +270 +129
25.5	— 3.87 +1.39 +0.08	+121.6 +19.9 — 6.5	8.20373 +399 +109
26.5	— 2.48 +1.47 +0.08	+141.5 +13.4 — 7.5	8.20772 +508 + 76
27.5	— 1.01 +1.39 — 0.30	+154.9 + 5.9 — 7.8	8.21280 +584 + 35
28.5	+ 0.38 +1.09 — 0.53	+160.8 — 1.9 — 6.7	8.21864 +619 — 13
29.5	+ 1.47 +0.56 — 0.70	+158.9 — 8.6 — 4.6	8.22483 +606 — 65
30.5	+ 2.03 — 0.14 — 0.74	+150.3 — 13.2 — 2.3	8.23089 +541 — 110
31.5	+ 1.89 — 0.88 — 0.62	+137.1 — 15.5 — 0.5	8.23630 +431 — 145
Febr. 1.5	+ 1.01 — 1.50 — 0.43	+121.6 — 16.0 — 0.1	8.24061 +286 — 160
2.5	— 0.49 — 1.93 — 0.22	+105.6 — 16.1 — 0.4	8.24347 — 29 — 155
3.5	— 2.42 — 2.15 — 0.01	+ 89.5 — 16.5 — 2.0	8.24473 — 163 — 134
4.5	— 4.57 — 2.16 +0.19	+ 73.0 — 18.0 — 1.9	8.24444 — 267 — 104
5.5	— 6.73 — 1.97 +0.33	+ 55.0 — 21.9 — 0.8	8.24281 — 337 — 42
6.5	— 8.70 — 1.18 +0.46	+ 35.1 — 22.7 +0.9	8.24014 — 396 — 17
7.5	— 10.34 — 0.63 +0.55	— 9.6 — 21.8	8.23298
8.5	— 11.52	— 31.4	8.22902
9.5	— 12.15		
Febr. 22.5	— 2.74 +1.69 +0.06	+137.9 +15.5 — 7.7	8.20297 +400 +122
23.5	— 1.05 +1.75 — 0.18	+153.4 + 7.8 — 8.2	8.20697 +522 +100
24.5	+ 0.70 +1.57 — 0.45	+161.2 — 0.4 — 7.8	8.21219 +622 + 67
25.5	+ 2.27 +1.12 — 0.72	+160.8 — 8.2 — 6.0	8.21841 +689 + 18
26.5	+ 3.39 +0.40 — 0.88	+152.6 — 14.2 — 3.2	8.22530 +707 — 43
27.5	+ 3.79 — 0.48 — 0.87	+138.4 — 17.4 — 0.3	8.23237 +664 — 103
28.5	+ 3.31 — 1.35 — 0.72	+121.0 — 17.7 +1.2	8.23901 +561 — 159
März 1.5	+ 1.96 — 2.07 — 0.48	+103.3 — 16.5 +1.4	8.24462 +402 — 199
2.5	— 0.11 — 2.55 — 0.21	+ 86.8 — 15.1 0.0	8.24864 +203 — 213
3.5	— 2.66 — 2.76 +0.09	+ 71.7 — 15.1 — 1.7	8.25067 — 10 — 201
4.5	— 5.42 — 2.67 +0.32	+ 56.6 — 16.8 — 2.9	8.25057 — 211 — 166
5.5	— 8.09 — 2.35 +0.55	+ 39.8 — 19.7 — 2.5	8.24846 — 377 — 116
6.5	— 10.44 — 1.80 +0.70	+ 20.1 — 22.2 — 0.7	8.24469 — 493 — 63
7.5	— 12.24 — 1.10 +0.73	— 2.1 — 22.9 +2.0	8.23976 — 556 — 18
8.5	— 13.34 — 0.37 +0.63	— 25.0 — 20.9 +4.9	8.23420 — 574 + 19
9.5	— 13.71 +0.26	— 45.9 — 16.0	8.22846 — 555
10.5	— 13.45	— 61.9	8.22291

Mittlere Zeit Greenwich	$\alpha_c - \alpha_k$	$\delta_c - \delta_k$	$\log \sin p_k$
1923			
März 24.5	+ 1.89 +1.65	+160.0 - 6.5	8.21113 +594
25.5	+ 3.54 +1.09 -0.56	+153.5 -13.7 -7.2	8.21707 +677 + 83
26.5	+ 4.63 +0.31 -0.78	+139.8 -18.6 -4.9	8.22384 +722 + 45
27.5	+ 4.94 -0.61 -0.92	+121.2 -20.5 -1.9	8.23106 +718 - 4
28.5	+ 4.33 -1.50 -0.89	+100.7 -19.5 +1.0	8.23824 +651 - 67
29.5	+ 2.83 -2.27 -0.77	+ 81.2 -16.9 +2.6	8.24475 +517 -134
30.5	+ 0.56 -2.79 -0.52	+ 64.3 -14.4 +2.5	8.24992 +324 -193
31.5	- 2.23 -3.04 -0.25	+ 49.9 -13.7 +0.7	8.25316 + 93 -231
April 1.5	- 5.27 -3.00 +0.04	+ 36.2 -15.3 -1.6	8.25409 146 -239
2.5	- 8.27 -2.64 +0.36	+ 20.9 -18.2 -2.9	8.25263 -363 -217
3.5	-10.91 -1.98 +0.66	+ 2.7 -20.9 -2.7	8.24900 -533 -170
4.5	-12.89 -1.17 +0.81	- 18.2 -21.3 -0.4	8.24367 -643 -110
5.5	-14.06 +0.34 +0.83	- 39.5 -18.3 +3.0	8.23724 -688 - 45
6.5	-14.40 +0.34 +0.68	- 57.8 -12.4 +5.9	8.23036 -67.9 + 9
7.5	-14.06 +0.77 +0.43	- 70.2 - 4.6 +7.8	8.22357 -629 + 50
8.5	-13.29 +0.96 +0.19	- 74.8 + 3.8 +8.4	8.21728 -553 + 76
9.5	-12.33	- 71.0	8.21175
April 22.5	+ 3.87 +0.91	+141.1 -17.9	8.21648 +600
23.5	+ 4.78 +0.14 -0.77	+123.2 -21.4 -3.5	8.22248 +653 + 53
24.5	+ 4.92 -0.68 -0.82	+101.8 -22.1 -0.7	8.22901 +669 + 16
25.5	+ 4.24 -1.47 -0.79	+ 79.7 -20.2 +1.9	8.23570 +639 - 30
26.5	+ 2.77 -2.13 -0.66	+ 59.5 -17.1 +3.1	8.24209 +549 - 90
27.5	+ 0.64 -2.62 -0.49	+ 42.4 -14.2 +2.9	8.24758 +397 -152
28.5	- 1.98 -2.91 -0.29	+ 28.2 -13.0 +1.2	8.25155 +194 -203
29.5	- 4.89 -2.92 -0.01	+ 15.2 -13.8 -0.8	8.25349 - 37 -231
30.5	- 7.81 -2.61 +0.31	+ 1.4 -16.1 -2.3	8.25312 -268 -231
Mai 1.5	-10.42 -2.02 +0.59	- 14.7 -18.0 -1.9	8.25044 -469 -201
2.5	-12.44 -1.23 +0.79	- 32.7 -17.8 +0.2	8.24575 -618 -149
3.5	-13.67 -0.42 +0.81	- 50.5 -14.1 +3.7	8.23957 -703 - 85
4.5	-14.09 +0.21 +0.63	- 64.6 - 7.8 +6.3	8.23254 -724 - 21
5.5	-13.88 +0.61 +0.40	- 72.4 + 0.1 +7.9	8.22530 -690 + 34
6.5	-13.27 +0.80 +0.19	- 72.3 + 8.3 +8.2	8.21840 -617 + 73
7.5	-12.47 +0.83 +0.03	- 64.0 +15.5 +7.2	8.21223 -516 +101
8.5	-11.64	- 48.5	8.20707
Mai 22.5	+ 3.73 -0.82	+ 84.0 -22.1	8.22821 +542
23.5	+ 2.91 -1.40 -0.58	+ 61.9 -20.0 +2.1	8.23363 +526 - 16
24.5	+ 1.51 -1.88 -0.48	+ 41.9 -17.0 +3.0	8.23889 +470 - 56
25.5	- 0.37 -2.25 -0.37	+ 24.9 -14.4 +2.6	8.24359 +366 -104
26.5	- 2.62 -2.45 -0.20	+ 10.5 -13.0 +1.4	8.24725 +216 -150
27.5	- 5.07 -2.47 -0.02	- 2.5 -13.0 0.0	8.24941 + 31 -185
28.5	- 7.54 -2.22 +0.25	- 15.5 -14.0 -1.0	8.24972 -170 -201
29.5	- 9.76 -1.75 +0.47	- 29.5 -14.4 -0.4	8.24802 -362 -192
30.5	-11.51 +0.64	- 43.9 +1.4	8.24440 -159



# Mondkrater Mösting A. 1923

Mittlere Zeit Greenwich	$\alpha_c - \alpha_k$	$\delta_c - \delta_k$	$\log \sin p_k$
1923			
Mai 30.5	-11.51 -1.11 +0.64	- 43.9 -13.0 +1.4	8.24440 -521 -159
31.5	-12.62 -0.47 +0.64	- 56.9 - 8.8 +4.2	8.23919 -631 -110
Juni 1.5	-13.09 +0.03 +0.50	- 65.7 - 2.4 +6.4	8.23288 -682 - 51
2.5	-13.06 +0.37 +0.34	- 68.1 + 5.0 +7.4	8.22606 -675 + 7
3.5	-12.69 +0.53 +0.16	- 63.1 +12.4 +7.4	8.21931 -621 + 54
4.5	-12.16 +0.62 +0.09	- 50.7 +18.7 +6.3	8.21310 -531 + 90
5.5	-11.54 +0.66 +0.04	- 32.0 +23.7 +5.0	8.20779 -417 +114
6.5	-10.88 +0.71 +0.05	- 8.3 +27.0 +3.3	8.20362 -288 +129
7.5	-10.17	+ 18.7	8.20074
Juni 20.5	+ 0.71 -1.43 -0.27	+ 48.8 -19.0 +2.2	8.23362 +350 - 46
21.5	- 0.72 -1.70 -0.16	+ 29.8 -16.8 +1.9	8.23712 +304 - 71
22.5	- 2.42 -1.86 -0.05	+ 13.0 -14.9 +1.3	8.24016 +233 - 99
23.5	- 4.28 -1.91 +0.09	- 1.9 -13.6 +0.6	8.24249 +134 -125
24.5	- 6.19 -1.82 +0.23	- 15.5 -12.3 +0.7	8.24383 + 9 -145
25.5	- 8.01 -1.59 +0.37	- 28.5 -10.9 +1.4	8.24392 -136 -148
26.5	- 9.60 -0.78 +0.44	- 40.8 - 7.7 +4.8	8.24256 -284 -133
27.5	-10.82 -0.37 +0.41	- 51.7 + 3.2 +6.1	8.23972 -417 -103
28.5	-11.60 -0.05 +0.32	- 59.4 + 3.2 +6.8	8.23555 -520 - 62
29.5	-11.97 +0.17 +0.22	- 62.3 +10.0 +6.2	8.23035 -582 - 15
30.5	-12.02 +0.32 +0.15	- 59.1 +16.2 +5.4	8.22453 -597 + 30
Juli 1.5	-11.85 +0.43 +0.12	- 49.1 +21.6 +3.9	8.21856 -567 + 71
2.5	-11.53 +0.55 +0.15	- 32.9 +25.5 +2.2	8.21289 -496 +103
3.5	-10.55 +0.70 +0.19	+ 14.2 +27.7 +0.5	8.20793 -393 +123
4.5	- 9.85 +0.89	+ 41.9 +28.2	8.20400 -270 +133
5.5	- 8.96	+ 70.1	8.20130 -137
6.5			8.19993
Juli 20.5	- 5.08 -1.59 +0.16	+ 5.0 -15.6 +1.0	8.23880 + 38 - 68
21.5	- 6.67 -1.43 +0.23	- 10.6 -14.6 +1.4	8.23918 - 30 - 76
22.5	- 8.10 -1.20 +0.29	- 25.2 -13.2 +2.3	8.23888 -106 - 81
23.5	- 9.30 -0.91 +0.32	- 38.4 -10.9 +3.4	8.23782 -187 - 86
24.5	-10.21 -0.59 +0.26	- 49.3 - 7.5 +4.6	8.23595 -273 - 84
25.5	-10.80 -0.33 +0.21	- 56.8 + 2.8 +5.7	8.23322 -357 - 71
26.5	-11.13 -0.12 +0.14	- 59.7 + 8.8 +6.0	8.22965 -428 - 47
27.5	-11.25 +0.02 +0.10	- 48.1 +14.6 +5.8	8.22537 -475 - 16
28.5	-11.23 +0.12 +0.19	- 33.5 +19.9 +4.1	8.22062 -491 + 18
29.5	-10.89 +0.22 +0.19	- 13.6 +24.0 +2.7	8.21571 -473 + 51
30.5	-10.54 +0.35 +0.23	+ 10.4 +26.7 +1.2	8.21098 -422 + 83
31.5	-10.00 +0.54 +0.26	+ 37.1 +27.9 -0.7	8.20676 -339 +108
Aug. 1.5	- 9.23 +1.03 +0.29	+ 65.0 +27.2 -2.7	8.20337 -231 +126
2.5	- 8.20 +1.32 +0.28	+ 92.2 +24.5 -4.6	8.20106 -105 +137
3.5	- 6.88 +1.60	+116.7 +19.9	8.20001 + 32 +139
4.5	- 5.28	+136.6	8.20033 +171
5.5			8.20204

Mittlere Zeit Greenwich	$\alpha - \alpha_k$	$\delta - \delta_k$	$\log \sin p_k$
1923			
Aug. 18.5	- 9.26 -1.11	- 18.3 -15.3	8.23838 -233
19.5	-10.37 -0.71 +0.40	- 33.6 -13.1 +2.2	8.23605 -275 - 42
20.5	-11.08 -0.34 +0.37	- 46.7 - 9.4 +3.7	8.23330 -309 34
21.5	-11.42 -0.05 +0.29	- 56.1 - 4.3 +5.1	8.23021 -339 30
22.5	-11.47 +0.11 +0.16	- 60.4 + 1.6 +5.9	8.22682 -365 26
23.5	-11.36 +0.18 +0.07	- 58.8 + 7.8 +6.2	8.22317 -385 - 20
24.5	-11.18 +0.20 +0.02	- 51.0 +13.7 +5.9	8.21932 -397 - 12
25.5	-10.98 +0.21 +0.01	- 37.3 +18.8 +5.1	8.21535 -395 + 2
26.5	-10.77 +0.27 +0.06	- 18.5 +23.0 +4.2	8.21140 -375 + 20
27.5	-10.50 +0.42 +0.15	+ 4.5 +26.0 +3.0	8.20765 -332 + 43
28.5	-10.08 +0.63 +0.21	+ 30.5 +27.5 +1.5	8.20433 -265 + 67
29.5	- 9.45 +0.90 +0.27	+ 58.0 +27.3 -0.2	8.20168 -176 + 89
30.5	- 8.55 +1.24 +0.34	+ 85.3 +25.4 -1.9	8.19992 - 66 +110
31.5	- 7.31 +1.58 +0.34	+110.7 +21.4 -4.0	8.19926 + 60 +126
Sept. 1.5	- 5.73 +1.87 +0.29	+132.1 +15.4 -6.0	8.19986 +194 +134
2.5	- 3.86 +2.02 +0.15	+147.5 + 7.9 -7.5	8.20180 +327 +133
3.5	- 1.84	+155.4	8.20507
Sept. 17.5	-12.85 +0.02	- 54.3 - 7.2	8.23147 -469
18.5	-12.83 +0.30 +0.28	- 61.5 - 1.0 +6.2	8.22678 -456 + 13
19.5	-12.53 +0.41 +0.11	- 62.5 + 5.8 +6.8	8.22222 -432 + 24
20.5	-12.12 +0.42 +0.01	- 56.7 +12.1 +6.3	8.21790 -402 + 30
21.5	-11.70 +0.39 -0.03	- 44.6 +17.7 +5.6	8.21388 -369 + 33
22.5	-11.31 +0.38 -0.01	- 26.9 +22.2 +4.5	8.21019 -334 + 35
23.5	-10.93 +0.43 +0.05	- 4.7 +25.4 +3.2	8.20685 -294 + 40
24.5	-10.50 +0.57 +0.14	+ 20.7 +27.2 +1.8	8.20391 -247 + 47
25.5	- 9.93 +0.81 +0.24	+ 47.9 +27.5 +0.3	8.20144 -187 + 60
26.5	- 9.12 +1.13 +0.32	+ 75.4 +26.0 -1.5	8.19957 -112 + 75
27.5	- 7.99 +1.48 +0.35	+101.4 +22.7 -3.3	8.19845 - 22 + 90
28.5	- 6.51 +1.82 +0.34	+124.1 +17.3 -5.4	8.19823 + 83 +105
29.5	- 4.69 +2.09 +0.27	+141.4 +10.2 -7.1	8.19906 +201 +118
30.5	- 2.60 +2.17 +0.08	+151.6 + 2.0 -8.2	8.20107 +326 +125
Okt. 1.5	- 0.43 +2.02 -0.15	+153.6 - 6.7 -8.7	8.20433 +451 +125
2.5	+ 1.59 +1.59 -0.43	+146.9 -14.7 -8.0	8.20884 +564 +113
3.5	+ 3.18	+132.2	8.21448
Okt. 17.5	-13.58 +0.53	- 61.6 + 9.5	8.22035 -532
18.5	-13.05 +0.54 +0.01	- 52.1 +15.8 +6.3	8.21503 -463 + 69
19.5	-12.51 +0.53 -0.01	- 36.3 +20.9 +5.1	8.21040 -389 + 74
20.5	-11.98 +0.54 +0.01	- 15.4 +24.6 +3.7	8.20651 -316 + 73
21.5	-11.44 +0.62 +0.08	+ 9.2 +26.9 +2.3	8.20335 -245 + 71
22.5	-10.82 +0.79 +0.17	+ 36.1 +27.6 +0.7	8.20090 -178 + 67
23.5	-10.03 +1.04 +0.25	+ 63.7 +26.6 -1.0	8.19912 -113 + 65
24.5	- 8.99 +1.36 +0.32	+ 90.3 +23.7 -2.9	8.19799 - 45 + 68
25.5	- 7.63 +0.34	+114.0 -4.7	8.19754 + 75

Mittlere Zeit Greenwich	$\alpha - \alpha_k$	$\delta - \delta_k$	$\log \sin p_k$
1923			
Okt. 25.5	- 7.63 +1.70 +0.34	+114.0 +19.0 -4.7	8.19754 +30 +75
26.5	- 5.93 +2.01 +0.31	+133.0 +12.4 -6.6	8.19784 +113 +83
27.5	- 3.92 +2.19 +0.18	+145.4 +4.5 -7.9	8.19897 +205 +92
28.5	- 1.73 +2.16 -0.03	+149.9 -4.2 -8.7	8.20102 +306 +101
29.5	+ 0.43 +1.91 -0.25	+145.7 -12.5 -8.3	8.20408 +412 +106
30.5	+ 2.34 +1.41 -0.50	+133.2 19.3 -6.8	8.20820 +516 +104
31.5	+ 3.75 +0.72 -0.69	+113.9 -23.8 -4.5	8.21336 +610 +94
Nov. 1.5	+ 4.47	+ 90.1	8.21946
Nov. 15.5	-13.74 +0.51	- 42.6 +18.7	8.21472 -540
16.5	-13.23 +0.58 +0.07	- 23.9 +23.2 +4.5	8.20932 -435 +105
17.5	-12.65 +0.67 +0.09	- 0.7 +26.1 +2.9	8.20497 -329 +106
18.5	-11.98 +0.80 +0.13	+ 25.4 +27.4 +1.3	8.20168 -227 +102
19.5	-11.18 +1.02 +0.22	+ 52.8 +27.0 -0.4	8.19941 -133 +94
20.5	-10.16 +1.28 +0.26	+ 79.8 +24.6 -2.4	8.19808 -49 +84
21.5	- 8.88 +1.58 +0.30	+104.4 +20.5 -4.1	8.19759 +27 +76
22.5	- 7.30 +1.88 +0.30	+124.9 +14.4 -6.1	8.19786 +97 +70
23.5	- 5.42 +2.07 +0.19	+139.3 +6.9 -7.5	8.19883 +162 +65
24.5	- 3.35 +2.13 +0.06	+146.2 -1.6 -8.5	8.20045 +227 +65
25.5	- 1.22 +1.96 -0.17	+144.6 -10.0 -8.4	8.20272 +295 +68
26.5	+ 0.74 +1.58 -0.38	+134.6 -17.3 -7.3	8.20567 +366 +71
27.5	+ 2.32 +1.04 -0.54	+117.3 -22.6 -5.3	8.20933 +440 +74
28.5	+ 3.36 +0.42 -0.62	+ 94.7 25.4 -2.8	8.21373 +513 +73
29.5	+ 3.78 -0.21 -0.63	+ 69.3 -25.5 -0.1	8.21886 +575 +62
30.5	+ 3.57 -0.79 -0.58	+ 43.8 -23.2 +2.3	8.22461 +614 +39
Dez. 1.5	+ 2.78	+ 20.6	8.23075
Dez. 15.5	-12.92 +0.74	+ 18.4 +26.7	8.20526 -357
16.5	-12.18 +0.97 +0.23	+ 45.1 +27.0 +0.3	8.20169 -229 +128
17.5	-11.21 +1.23 +0.26	+ 72.1 +25.3 -1.7	8.19940 -107 +122
18.5	- 9.98 +1.52 +0.29	+ 97.4 +21.7 -3.6	8.19833 +4 +111
19.5	- 8.46 +1.79 +0.27	+119.1 +16.2 -5.5	8.19837 +99 +95
20.5	- 6.67 +1.98 +0.19	+135.3 +9.0 -7.2	8.19936 +176 +77
21.5	- 4.69 +2.04 +0.06	+144.3 +0.9 -8.1	8.20112 +237 +61
22.5	- 2.65 +1.90 -0.14	+145.2 -7.6 -8.5	8.20349 +284 +47
23.5	- 0.75 +1.55 -0.35	+137.6 15.1 -7.5	8.20633 +322 +38
24.5	+ 0.80 +1.06 -0.49	+122.5 -20.8 -5.7	8.20955 +354 +32
25.5	+ 1.86 +0.50 -0.56	+101.7 -24.2 -3.4	8.21309 +383 +29
26.5	+ 2.36 -0.04 -0.54	+ 77.5 -25.2 -1.0	8.21692 +409 +26
27.5	+ 2.32 -0.52 -0.48	+ 52.3 -24.1 +1.1	8.22101 +433 +24
28.5	+ 1.80 -0.88 -0.36	+ 28.2 -21.4 +2.7	8.22534 +451 +18
29.5	+ 0.92 -1.16 -0.28	+ 6.8 -17.6 +3.8	8.22985 +455 +4
30.5	- 0.24	- 10.8	8.23440



Tag	0 <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination			
1923					
Jan. 0	19 41 <sup>h</sup> 54.0 <sup>m</sup> 6 <sup>s</sup> 42.72	— 23 33 34.3 18 <sup>m</sup> 57.8	0.10 1514	5842	1 <sup>h</sup> 4.7 <sup>m</sup>
1	19 47 48.12 6 37.47	23 14 36.5 20 25.4	0.09 5672	6230	1 7.5
2	19 54 25.59 6 31.30	22 54 11.1 21 50.3	0.08 9442	6639	1 10.2
3	20 0 56.89 6 24.12	22 32 20.8 23 11.7	0.08 2803	7069	1 12.7
4	20 7 21.01 6 15.76	22 9 9.1 24 28.6	0.07 5734	7520	1 15.2
5	20 13 36.77 6 6.07	21 44 40.5 25 40.2	0.06 8214	7991	1 17.5
6	20 19 42.84 5 54.90	— 21 19 0.3 26 45.1	0.06 0223	8484	1 19.7
7	20 25 37.74 5 42.05	20 52 15.2 27 42.2	0.05 1739	8994	1 21.6
8	20 31 19.79 5 27.31	20 24 33.0 28 29.6	0.04 2745	9519	1 23.4
9	20 36 47.10 5 10.45	19 56 3.4 29 5.9	0.03 3226	10055	1 24.9
10	20 41 57.55 4 51.27	19 26 57.5 29 28.9	0.02 3171	10595	1 26.1
11	20 46 48.82 4 29.51	18 57 28.6 29 37.1	0.01 2576	11131	1 27.0
12	20 51 18.33 4 4.98	— 18 27 51.5 29 28.0	0.00 1445	11653	1 27.5
13	20 55 23.31 3 37.48	17 58 23.5 28 59.7	9.98 9792	12146	1 27.6
14	20 59 0.79 3 6.86	17 29 23.8 28 10.3	9.97 7646	12594	1 27.3
15	21 2 7.65 2 33.05	17 1 13.5 26 58.1	9.96 5052	12977	1 26.4
16	21 4 40.70 1 56.12	16 34 15.4 25 21.8	9.95 2075	13272	1 25.0
17	21 6 36.82 1 16.24	16 8 53.6 23 20.8	9.93 8803	13454	1 22.9
18	21 7 53.06 0 33.78	— 15 45 32.8 20 55.3	9.92 5349	13495	1 20.2
19	21 8 26.84 0 10.68	15 24 37.5 18 6.9	9.91 1854	13368	1 16.8
20	21 8 16.16 0 56.30	15 6 30.6 14 57.7	9.89 8486	13047	1 12.7
21	21 7 19.86 1 42.02	14 51 32.9 11 32.0	9.88 5439	12513	1 7.8
22	21 5 37.84 2 26.54	14 40 0.9 7 54.7	9.87 2926	11749	1 2.1
23	21 3 11.30 3 8.36	14 32 6.2 4 12.4	9.86 1177	10754	0 55.7
24	21 0 2.94 3 45.93	— 14 27 53.8 0 32.0	9.85 0423	9535	0 48.7
25	20 56 17.01 4 17.71	14 27 21.8 2 58.9	9.84 0888	8116	0 41.0
26	20 51 59.30 4 42.37	14 30 20.7 6 13.4	9.83 2772	6535	0 32.8
27	20 47 16.93 4 58.90	14 36 34.1 9 5.7	9.82 6237	4840	0 24.2
28	20 42 18.03 5 6.69	14 45 39.8 11 31.3	9.82 1397	3090	0 15.3
29	20 37 11.34 5 5.75	14 57 11.1 13 28.1	9.81 8307	1343	0 0.3 (23 57.3)
30	20 32 5.59 4 56.49	— 15 10 39.2 14 55.2	9.81 6964	345	23 48.5
31	20 27 9.10 4 39.78	15 25 34.4 15 54.1	9.81 7309	1923	23 39.9
Febr. 1	20 22 29.32 4 16.82	15 41 28.5 16 27.0	9.81 9232	3356	23 31.7
2	20 18 12.50 3 48.94	15 57 55.5 16 37.3	9.82 2588	4617	23 24.0
3	20 14 23.56 3 17.56	16 14 32.8 16 28.1	9.82 7205	5698	23 16.8
4	20 11 6.00 2 43.92	16 31 0.9 16 3.4	9.83 2903	6595	23 10.2
5	20 8 22.08 2 9.23	— 16 47 4.3 15 25.9	9.83 9498	7316	23 4.1
6	20 6 12.85 1 34.39	17 2 30.2 14 38.6	9.84 6814	7877	22 58.6
7	20 4 38.46 1 0.17	17 17 8.8 13 43.2	9.85 4691	8293	22 53.6
8	20 3 38.29 0 27.12	17 30 52.0 12 42.0	9.86 2984	8582	22 49.2
9	20 3 11.17 0 4.39	17 43 34.0 11 36.2	9.87 1566	8763	22 45.3
10	20 3 15.56	17 55 10.2	9.88 0329		22 41.9

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich	
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ		
1923					
Febr. 10	20 <sup>b</sup> 3 15.56 <sup>m</sup> 0 34.10 <sup>s</sup>	—17 55 10.2	10 26.7	9.88 0329 8855	22 <sup>h</sup> 41.9 <sup>m</sup>
11	20 3 49.66 1 1.92	18 5 36.9	9 14.6	9.88 9184 8873	22 39.0
12	20 4 51.58 1 27.77	18 14 51.5	8 0.3	9.89 8057 8829	22 36.5
13	20 6 19.35 1 51.68	18 22 51.8	6 44.5	9.90 6886 8741	22 34.4
14	20 8 11.03 2 13.71	18 29 36.3	5 27.4	9.91 5627 8613	22 32.6
15	20 10 24.74 2 33.97	18 35 3.7	4 9.4	9.92 4240 8457	22 31.2
16	20 12 58.71 2 52.54	—18 39 13.1	2 50.5	9.93 2697 8280	22 30.2
17	20 15 51.25 3 9.55	18 42 3.6	1 31.2	9.94 0977 8087	22 29.4
18	20 19 0.80 3 25.11	18 43 34.8	0 11.4	9.94 9064 7885	22 28.8
19	20 22 25.91 3 39.34	18 43 46.2	1 8.8	9.95 6949 7675	22 28.5
20	20 26 5.25 3 52.33	18 42 37.4	2 29.1	9.96 4624 7462	22 28.4
21	20 29 57.58 4 4.24	18 40 8.3	3 49.6	9.97 2086 7248	22 28.5
22	20 34 1.82 4 15.07	—18 36 18.7	5 10.0	9.97 9334 7034	22 28.8
23	20 38 16.89 4 25.04	18 31 8.7	6 30.4	9.98 6368 6823	22 29.3
24	20 42 41.93 4 34.14	18 24 38.3	7 50.9	9.99 3191 6614	22 29.9
25	20 47 16.07 4 42.48	18 16 47.4	9 11.3	9.99 9805 6410	22 30.7
26	20 51 58.55 4 50.14	18 7 36.1	10 31.4	0.00 6215 6210	22 31.6
27	20 56 48.69 4 57.18	17 57 4.7	11 51.5	0.01 2425 6015	22 32.6
28	21 1 45.87 5 3.64	—17 45 13.2	13 11.3	0.01 8440 5826	22 33.7
März 1	21 6 49.51 5 9.61	17 32 1.9	14 30.9	0.02 4266 5641	22 34.9
2	21 11 59.12 5 15.13	17 17 31.0	15 50.1	0.02 9907 5461	22 36.2
3	21 17 14.25 5 20.23	17 1 40.9	17 9.5	0.03 5368 5288	22 37.6
4	21 22 34.48 5 24.96	16 44 31.4	18 28.1	0.04 0656 5118	22 39.1
5	21 27 59.44 5 29.39	16 26 3.3	19 46.6	0.04 5774 4953	22 40.6
6	21 33 28.83 5 33.49	—16 6 16.7	21 4.9	0.05 0727 4793	22 42.2
7	21 39 2.32 5 37.38	15 45 11.8	22 22.4	0.05 5520 4636	22 43.9
8	21 44 39.70 5 40.99	15 22 49.4	23 40.0	0.06 0156 4484	22 45.6
9	21 50 20.69 5 44.45	14 59 9.4	24 57.1	0.06 4640 4335	22 47.4
10	21 56 5.14 5 47.72	14 34 12.3	26 13.7	0.06 8975 4190	22 49.3
11	22 1 52.86 5 50.84	14 7 58.6	27 30.0	0.07 3165 4046	22 51.2
12	22 7 43.70 5 53.85	—13 40 28.6	28 45.9	0.07 7211 3905	22 53.2
13	22 13 37.55 5 56.76	13 11 42.7	30 1.4	0.08 1116 3767	22 55.2
14	22 19 34.31 5 59.60	12 41 41.3	31 16.3	0.08 4883 3630	22 57.2
15	22 25 33.91 6 2.40	12 10 25.0	32 31.0	0.08 8513 3493	22 59.3
16	22 31 36.31 6 5.14	11 37 54.0	33 44.9	0.09 2006 3358	23 1.4
17	22 37 41.45 6 7.90	11 4 9.1	34 58.7	0.09 5364 3221	23 3.6
18	22 43 49.35 6 10.66	—10 29 10.4	36 11.7	0.09 8585 3085	23 5.9
19	22 50 0.01 6 13.44	9 52 58.7	37 24.1	0.10 1670 2947	23 8.2
20	22 56 13.45 6 16.26	9 15 34.6	38 36.1	0.10 4617 2807	23 10.5
21	23 2 29.71 6 19.15	8 36 58.5	39 47.4	0.10 7424 2664	23 12.9
22	23 8 48.86 6 22.12	7 57 11.1	40 57.9	0.11 0088 2518	23 15.3
23	23 15 10.98	7 16 13.2		0.11 2606	23 17.8



Tag	O <sup>b</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1923					
März 23	23 <sup>h</sup> 15 <sup>m</sup> 10.98	6 <sup>m</sup> 25.17	— 7 16 13.2	0.11 2606	23 <sup>h</sup> 17.8
24	23 21 36.15	6 28.33	6 34 5.5	0.11 4974	23 20.3
25	23 28 4.48	6 31.59	5 50 49.0	0.11 7186	23 22.9
26	23 34 36.07	6 35.00	5 6 24.7	0.11 9237	23 25.5
27	23 41 11.07	6 38.54	4 20 53.7	0.12 1118	23 28.2
28	23 47 49.61	6 42.20	3 34 17.3	0.12 2821	23 31.0
29	23 54 31.81	6 46.04	— 2 46 37.0	0.12 4337	23 33.8
30	0 1 17.85	6 49.99	1 57 55.0	0.12 5656	23 36.7
31	0 8 7.84	6 54.11	1 8 13.0	0.12 6764	23 39.7
April 1	0 15 1.95	6 58.33	— 0 17 33.4	0.12 7649	23 42.7
2	0 22 0.28	7 2.70	+ 0 34 0.8	0.12 8294	23 45.8
3	0 29 2.98	7 7.13	1 26 26.4	0.12 8684	23 49.0
4	0 36 10.11	7 11.64	+ 2 19 39.6	0.12 8801	23 52.3
5	0 43 21.75	7 16.16	3 13 35.8	0.12 8624	23 55.6
6	0 50 37.91	7 20.64	4 8 9.8	0.12 8134	23 59.0
7	0 57 58.55	7 25.04	5 3 15.9	0.12 7308	—
8	1 5 23.59	7 29.27	5 58 47.1	0.12 6123	0 2.5
9	1 12 52.86	7 33.22	6 54 35.9	0.12 4556	0 6.1
10	1 20 26.08	7 36.84	+ 7 50 33.6	0.12 2584	0 9.7
11	1 28 2.92	7 39.98	8 46 30.7	0.12 0182	0 13.4
12	1 35 42.90	7 42.56	9 42 16.8	0.11 7330	0 17.1
13	1 43 25.46	7 44.45	10 37 40.6	0.11 4007	0 20.9
14	1 51 9.91	7 45.49	11 32 30.3	0.11 0195	0 24.7
15	1 58 55.40	7 45.65	12 26 33.0	0.10 5880	0 28.5
16	2 6 41.05	7 44.75	+ 13 19 36.0	0.10 1051	0 32.3
17	2 14 25.80	7 42.76	14 11 26.6	0.09 5703	0 36.1
18	2 22 8.56	7 39.58	15 1 52.0	0.08 9834	0 39.9
19	2 29 48.14	7 35.19	15 50 40.2	0.08 3448	0 43.7
20	2 37 23.33	7 29.55	16 37 39.8	0.07 6557	0 47.3
21	2 44 52.88	7 22.67	17 22 40.8	0.06 9173	0 50.9
22	2 52 15.55	7 14.60	+ 18 5 34.0	0.06 1316	0 54.3
23	2 59 30.15	7 5.35	18 46 12.2	0.05 3009	0 57.6
24	3 6 35.50	6 54.99	19 24 29.1	0.04 4278	I 0.7
25	3 13 30.49	6 43.57	20 0 20.2	0.03 5153	I 3.7
26	3 20 14.06	6 31.19	20 33 42.3	0.02 5663	I 6.5
27	3 26 45.25	6 17.87	21 4 33.4	0.01 5841	I 9.1
28	3 33 3.12	6 3.71	+ 21 32 52.8	0.00 5719	I 11.4
29	3 39 6.83	5 48.75	21 58 40.6	9.99 5329	I 13.5
30	3 44 55.58	5 33.08	22 21 57.9	9.98 4704	I 15.4
Mai 1	3 50 28.66	5 16.70	22 42 46.4	9.97 3876	I 17.0
2	3 55 45.36	4 59.69	23 1 8.3	9.96 2878	I 18.3
3	4 0 45.05		23 17 6.1	9.95 1741	I 19.3



Tag	0 <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich	
	Scheinbare Rektaszension	Scheinbare Deklination				
1923						
Mai 3	4 <sup>h</sup> 0 <sup>m</sup> 45.05 <sup>s</sup> 4 <sup>m</sup> 42.06 <sup>s</sup>	+23 17 6.1	13 36.7	9.95 1741	11245	1 <sup>h</sup> 19.3
4	4 5 27.11 4 23.88	23 30 42.8	11 18.6	9.94 0496	11320	1 20.1
5	4 9 50.99 4 5.16	23 42 1.4	9 3.5	9.92 9176	11362	1 20.5
6	4 13 56.15 3 45.94	23 51 4.9	6 51.6	9.91 7814	11373	1 20.6
7	4 17 42.09 3 26.25	23 57 56.5	4 42.8	9.90 6441	11348	1 20.4
8	4 21 8.34 3 6.14	24 2 39.3	2 37.0	9.89 5093	11290	1 19.9
9	4 24 14.48 2 45.67	+24 5 16.3	0 34.2	9.88 3803	11193	1 19.1
10	4 27 0.15 2 24.88	24 5 50.5	1 25.6	9.87 2610	11059	1 17.9
11	4 29 25.03 2 3.86	24 4 24.9	3 22.3	9.86 1551	10882	1 16.3
12	4 31 28.89 1 42.68	24 1 2.6	5 16.2	9.85 0669	10664	1 14.4
13	4 33 11.57 1 21.46	23 55 46.4	7 7.0	9.84 0005	10400	1 12.2
14	4 34 33.03 1 0.30	23 48 39.4	8 54.5	9.82 9605	10088	1 9.6
15	4 35 33.33 0 39.34	+23 39 44.9	10 38.3	9.81 9517	9725	1 6.6
16	4 36 12.67 0 18.76	23 29 6.6	12 18.2	9.80 9792	9312	1 3.3
17	4 36 31.43 0 1.29	23 16 48.4	13 53.6	9.80 0480	8844	0 59.7
18	4 36 30.14 0 20.62	23 2 54.8	15 23.8	9.79 1636	8322	0 55.7
19	4 36 9.52 0 39.02	22 47 31.0	16 48.0	9.78 3314	7745	0 51.5
20	4 35 30.50 0 56.27	22 30 43.0	18 5.2	9.77 5569	7114	0 46.9
21	4 34 34.23 1 12.16	+22 12 37.8	19 14.4	9.76 8455	6430	0 42.0
22	4 33 22.07 1 26.48	21 53 23.4	20 14.6	9.76 2025	5697	0 36.9
23	4 31 55.59 1 39.02	21 33 8.8	21 4.2	9.75 6328	4918	0 31.5
24	4 30 16.57 1 49.62	21 12 4.6	21 42.6	9.75 1410	4099	0 25.9
25	4 28 26.95 1 58.08	20 50 22.0	22 8.3	9.74 7311	3246	0 20.2
26	4 26 28.87 2 4.32	20 28 13.7	22 20.5	9.74 4065	2368	0 14.3
27	4 24 24.55 2 8.24	+20 5 53.2	22 18.7	9.74 1697	1473	0 8.3
28	4 22 16.31 2 9.81	19 43 34.5	22 2.2	9.74 0224	570	1 <sup>h</sup> 0 <sup>m</sup> 2.3 <sup>s</sup>
29	4 20 6.50 2 9.03	19 21 32.3	21 31.0	9.73 9654	333	23 50.1
30	4 17 57.47 2 5.97	19 0 1.3	20 45.3	9.73 9987	1223	23 44.1
31	4 15 51.50 2 0.73	18 39 16.0	19 45.7	9.74 1210	2094	23 38.1
Juni 1	4 13 50.77 1 53.44	18 19 30.3	18 33.0	9.74 3304	2937	23 32.3
2	4 11 57.33 1 44.26	+18 0 57.3	17 8.5	9.74 6241	3743	23 26.7
3	4 10 13.07 1 33.41	17 43 48.8	15 33.6	9.74 9984	4510	23 21.2
4	4 8 39.66 1 21.05	17 28 15.2	13 49.7	9.75 4494	5230	23 15.9
5	4 7 18.61 1 7.43	17 14 25.5	11 58.6	9.75 9724	5899	23 10.9
6	4 6 11.18 0 52.71	17 2 26.9	10 2.0	9.76 5623	6518	23 6.1
7	4 5 18.47 0 37.12	16 52 24.9	8 1.3	9.77 2141	7084	23 1.5
8	4 4 41.35 0 20.81	+16 44 23.6	5 58.5	9.77 9225	7597	22 57.2
9	4 4 20.54 0 3.96	16 38 25.1	3 54.7	9.78 6822	8058	22 53.2
10	4 4 16.58 0 13.27	16 34 30.4	1 51.6	9.79 4880	8468	22 49.5
11	4 4 29.85 0 30.78	16 32 38.8	0 10.0	9.80 3348	8831	22 46.0
12	4 5 0.63 0 48.47	16 32 48.8	2 8.4	9.81 2179	9148	22 42.9
13	4 5 49.10	16 34 57.2		9.82 1327		22 40.0

Tag	O <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1923					
Juni 13	4 <sup>h</sup> 5 <sup>m</sup> 49.10	1 <sup>m</sup> 6.22	+16 34 57.2	9.82 1327	22 40.0
14	4 6 55.32	1 24.01	16 39 0.6	9.83 0749	22 37.5
15	4 8 19.33	1 41.74	16 44 54.7	9.84 0405	22 35.2
16	4 10 1.07	1 59.41	16 52 34.0	9.85 0257	22 33.3
17	4 12 0.48	2 16.98	17 1 53.1	9.86 0271	22 31.6
18	4 14 17.46	2 34.46	17 12 45.8	9.87 0416	22 30.2
19	4 16 51.92	2 51.83	+17 25 5.6	9.88 0660	22 29.1
20	4 19 43.75	3 9.11	17 38 45.8	9.89 0977	22 28.3
21	4 22 52.86	3 26.29	17 53 39.3	9.90 1342	22 27.8
22	4 26 19.15	3 43.40	18 9 38.8	9.91 1730	22 27.5
23	4 30 2.55	4 0.47	18 26 36.7	9.92 2119	22 27.6
24	4 34 3.02	4 17.50	18 44 25.3	9.93 2487	22 27.9
25	4 38 20.52	4 34.52	+19 2 56.5	9.94 2814	22 28.5
26	4 42 55.04	4 51.53	19 22 2.2	9.95 3078	22 29.4
27	4 47 46.57	5 8.55	19 41 33.7	9.96 3260	22 30.6
28	4 52 55.12	5 25.57	20 1 22.3	9.97 3339	22 32.1
29	4 58 20.69	5 42.59	20 21 18.5	9.98 3296	22 33.8
30	5 4 3.28	5 59.60	20 41 13.0	9.99 3108	22 35.9
Juli 1	5 10 2.88	6 16.57	+21 0 55.8	0.00 2754	22 38.2
2	5 16 19.45	6 33.42	21 20 16.4	0.01 2211	22 40.8
3	5 22 52.87	6 50.13	21 39 4.0	0.02 1456	22 43.7
4	5 29 43.00	7 6.59	21 57 7.4	0.03 0464	22 46.8
5	5 36 49.59	7 22.72	22 14 15.1	0.03 9210	22 50.3
6	5 44 12.31	7 38.38	22 30 15.2	0.04 7668	22 54.0
7	5 51 50.69	7 53.44	+22 44 55.5	0.05 5810	22 57.9
8	5 59 44.13	8 7.72	22 58 4.1	0.06 3609	23 2.1
9	6 7 51.85	8 21.08	23 9 29.0	0.07 1039	23 6.5
10	6 16 12.93	8 33.33	23 18 58.4	0.07 8073	23 11.1
11	6 24 46.26	8 44.29	23 26 21.5	0.08 4686	23 15.9
12	6 33 30.55	8 53.80	23 31 28.1	0.09 0857	23 20.9
13	6 42 24.35	9 1.72	+23 34 9.4	0.09 6566	23 26.0
14	6 51 26.07	9 7.94	23 34 18.0	0.10 1797	23 31.2
15	7 0 34.01	9 12.39	23 31 48.0	0.10 6537	23 36.5
16	7 9 46.40	9 15.02	23 26 35.6	0.11 0780	23 41.8
17	7 19 1.42	9 15.89	23 18 39.0	0.11 4524	23 47.2
18	7 28 17.31	9 15.03	23 7 58.0	0.11 7772	23 52.5
19	7 37 32.34	9 12.54	+22 54 34.7	0.12 0531	23 57.8
20	7 46 44.88	9 8.58	22 38 32.8	0.12 2812	—
21	7 55 53.46	9 3.28	22 19 57.4	0.12 4631	0 3.0
22	8 4 56.74	8 56.84	21 58 55.1	0.12 6006	0 8.1
23	8 13 53.58	8 49.41	21 35 33.3	0.12 6958	0 13.1
24	8 22 42.99		21 10 0.4	0.12 7508	0 18.0

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Juli 24	8 <sup>h</sup> 22 <sup>m</sup> 42.99	8 <sup>m</sup> 41.18	+21° 10' 0.4	0.12 7508
25	8 31 24.17	8 41.18	20 42 25.0	0.12 7679
26	8 39 56.49	8 32.32	20 12 56.2	0.12 7494
27	8 48 19.48	8 22.99	19 41 43.1	0.12 6976
28	8 56 32.78	8 13.30	19 8 54.5	0.12 6147
29	9 4 36.21	8 3.43	18 34 39.2	0.12 5027
30	9 12 29.62	7 53.41	+17 59 5.8	0.12 3636
31	9 20 13.00	7 43.38	17 22 22.2	0.12 1993
Aug. 1	9 27 46.41	7 33.41	16 44 36.1	0.12 0114
2	9 35 9.95	7 23.54	16 5 54.7	0.11 8016
3	9 42 23.76	7 13.81	15 26 24.8	0.11 5711
4	9 49 28.04	7 4.28	14 46 12.8	0.11 3212
5	9 56 22.99	6 54.95	+14 5 24.6	0.11 0531
6	10 3 8.84	6 45.85	13 24 5.7	0.10 7677
7	10 9 45.84	6 37.00	12 42 21.3	0.10 4658
8	10 16 14.21	6 28.37	12 0 16.2	0.10 1483
9	10 22 34.20	6 19.99	11 17 55.1	0.09 8157
10	10 28 46.04	6 11.84	10 35 22.1	0.09 4686
11	10 34 49.95	6 3.91	+ 9 52 41.1	0.09 1074
12	10 40 46.15	5 56.20	9 9 56.0	0.08 7325
13	10 46 34.83	5 48.68	8 27 10.4	0.08 3441
14	10 52 16.19	5 41.36	7 44 27.5	0.07 9424
15	10 57 50.37	5 34.18	7 1 50.7	0.07 5275
16	11 3 17.54	5 27.17	6 19 23.1	0.07 0996
17	11 8 37.82	5 20.28	+ 5 37 7.6	0.06 6586
18	11 13 51.30	5 13.48	4 55 7.2	0.06 2045
19	11 18 58.09	5 6.79	4 13 24.8	0.05 7373
20	11 23 58.23	5 0.14	3 32 3.1	0.05 2568
21	11 28 51.77	4 53.54	2 51 5.1	0.04 7629
22	11 33 38.70	4 46.93	2 10 33.4	0.04 2553
23	11 38 19.02	4 40.32	+ 1 30 31.0	0.03 7339
24	11 42 52.68	4 33.66	0 51 0.7	0.03 1983
25	11 47 19.60	4 26.92	+ 0 12 5.5	0.02 6484
26	11 51 39.66	4 20.06	- 0 26 11.6	0.02 0838
27	11 55 52.73	4 13.07	1 3 47.4	0.01 5043
28	11 59 58.60	4 5.87	1 40 38.5	0.00 9095
29	12 3 57.06	3 58.46	- 2 16 41.4	0.00 2991
30	12 7 47.84	3 50.78	2 51 52.5	9.99 6729
31	12 11 30.60	3 42.76	3 26 7.6	9.99 0306
Sept. 1	12 15 4.99	3 34.39	3 59 22.6	9.98 3719
2	12 18 30.58	3 25.59	4 31 32.8	9.97 6967
3	12 21 46.88	3 16.30	5 2 33.2	9.97 0050



Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Sept. 3	12 21 <sup>m</sup> 46.88 3 6.47	—5 2 33.2 29 45.1	9.97 0050 7084	1 35.3
4	12 24 53.35 2 56.03	5 32 18.3 28 24.0	9.96 2966 7247	1 34.5
5	12 27 49.38 2 44.91	6 0 42.3 26 56.2	9.95 5719 7409	1 33.5
6	12 30 34.29 2 33.03	6 27 38.5 25 21.6	9.94 8310 7564	1 32.3
7	12 33 7.32 2 20.34	6 53 0.1 23 39.1	9.94 0746 7714	1 30.9
8	12 35 27.66 2 6.75	7 16 39.2 21 48.2	9.93 3032 7851	1 29.2
9	12 37 34.41 1 52.20	—7 38 27.4 19 48.0	9.92 5181 7976	1 27.4
10	12 39 26.61 1 36.59	7 58 15.4 17 37.7	9.91 7205 8080	1 25.3
11	12 41 3.20 1 19.91	8 15 53.1 15 16.4	9.90 9125 8161	1 23.0
12	12 42 23.11 1 2.07	8 31 9.5 12 43.5	9.90 0964 8211	1 20.4
13	12 43 25.18 0 43.10	8 43 53.0 9 57.8	9.89 2753 8223	1 17.4
14	12 44 8.28 0 22.95	8 53 50.8 6 58.8	9.88 4530 8188	1 14.2
15	12 44 31.23 0 1.72	—9 0 49.6 3 46.0	9.87 6342 8096	1 10.6
16	12 44 32.95 0 20.53	9 4 35.6 0 19.2	9.86 8246 7936	1 6.7
17	12 44 12.42 0 43.63	9 4 54.8 3 21.6	9.86 0310 7695	1 2.4
18	12 43 28.79 1 7.33	9 1 33.2 7 15.3	9.85 2615 7362	0 57.8
19	12 42 21.46 1 31.30	8 54 17.9 11 20.4	9.84 5253 6920	0 52.7
20	12 40 50.16 1 55.12	8 42 57.5 15 34.4	9.83 8333 6360	0 47.2
21	12 38 55.04 2 18.24	—8 27 23.1 19 53.3	9.83 1973 5666	0 41.4
22	12 36 36.80 2 40.03	8 7 29.8 24 12.0	9.82 6307 4833	0 35.2
23	12 33 56.77 2 59.74	7 43 17.8 28 23.9	9.82 1474 3854	0 28.6
24	12 30 57.03 3 16.59	7 14 53.9 32 21.2	9.81 7620 2729	0 21.7
25	12 27 40.44 3 29.74	6 42 32.7 35 54.8	9.81 4891 1467	0 14.5
26	12 24 10.70 3 38.43	6 6 37.9 38 55.7	9.81 3424 85	{ 0 7.1 } 23 59.5
27	12 20 32.27 3 41.96	—5 27 42.2 41 14.3	9.81 3339 1393	23 51.9
28	12 16 50.31 3 39.83	4 46 27.9 42 42.8	9.81 4732 2935	23 44.4
29	12 13 10.48 3 31.76	4 3 45.1 43 14.8	9.81 7667 4499	23 36.9
30	12 9 38.72 3 17.72	3 20 30.3 42 47.0	9.82 2166 6043	23 29.7
Okt. 1	12 6 21.00 2 57.95	2 37 43.3 41 18.7	9.82 8209 7524	23 22.8
2	12 3 23.05 2 33.02	1 56 24.6 38 52.6	9.83 5733 8899	23 16.4
3	12 0 50.03 2 3.64	—1 17 32.0 35 34.2	9.84 4632 10135	23 10.4
4	11 58 46.39 1 30.73	0 41 57.8 31 30.8	9.85 4767 11201	23 4.9
5	11 57 15.66 0 55.30	—0 10 27.0 26 52.0	9.86 5968 12082	23 0.0
6	11 56 20.36 0 18.34	+0 16 25.0 21 47.0	9.87 8050 12769	22 55.8
7	11 56 2.02 0 19.13	0 38 12.0 16 25.7	9.89 0819 13261	22 52.1
8	11 56 21.15 0 56.23	0 54 37.7 10 57.0	9.90 4080 13566	22 49.1
9	11 57 17.38 1 32.23	+1 5 34.7 5 29.2	9.91 7646 13697	22 46.7
10	11 58 49.61 2 6.46	1 11 3.9 0 8.9	9.93 1343 13673	22 44.8
11	12 0 56.07 2 38.48	1 11 12.8 4 58.3	9.94 5016 13511	22 43.5
12	12 3 34.55 3 7.94	1 6 14.5 9 48.0	9.95 8527 13235	22 42.7
13	12 6 42.49 3 34.68	0 56 26.5 14 17.3	9.97 1762 12865	22 42.3
14	12 10 17.17	0 42 9.2	9.98 4627	22 42.3

Tag	O <sup>h</sup> mittlere Zeit Greenwich						Obere Kulmination in Greenwich	
	Scheinbare Rektaszension			Scheinbare Deklination				log Δ
1923								
Okt. 14	12 <sup>h</sup> 10 <sup>m</sup> 17.17	3 <sup>m</sup> 58.62	+	0° 42' 9.2"	18° 24.0'	9.98 4627	12422	22 <sup>h</sup> 42.3 <sup>m</sup>
15	12 14 15.79	4 19.78		0 23 45.2	22 7.0	9.99 7049	11924	22 42.6
16	12 18 35.57	4 38.27	+	0 1 38.2	25 26.4	0.00 8973	11389	22 43.3
17	12 23 13.84	4 54.27	-	0 23 48.2	28 22.3	0.02 0362	10829	22 44.3
18	12 28 8.11	5 7.96		0 52 10.5	30 55.4	0.03 1191	10258	22 45.5
19	12 33 16.07	5 19.56		1 23 5.9	33 7.3	0.04 1449	9686	22 46.8
20	12 38 35.63	5 29.34	-	1 56 13.2	34 59.2	0.05 1135	9122	22 48.4
21	12 44 4.97	5 37.48		2° 31' 12.4"	36 32.5	0.06 0257	8568	22 50.1
22	12 49 42.45	5 44.23		3 7 44.9	37 49.2	0.06 8825	8033	22 51.9
23	12 55 26.68	5 49.78		3 45 34.1	38 50.7	0.07 6858	7518	22 53.7
24	13 1 16.46	5 54.32		4 24 24.8	39 38.6	0.08 4376	7024	22 55.7
25	13 7 10.78	5 58.00		5 4 3.4	40 14.4	0.09 1400	6553	22 57.7
26	13 13 8.78	6 1.01	-	5 44 17.8	40 39.3	0.09 7953	6106	22 59.8
27	13 19 9.79	6 3.42		6 24 57.1	40 54.7	0.10 4059	5682	23 1.9
28	13 25 13.21	6 5.40		7 5 51.8	41 1.6	0.10 9741	5280	23 4.0
29	13 31 18.61	6 6.99		7 46 53.4	41 1.0	0.11 5021	4901	23 6.2
30	13 37 25.60	6 8.31		8 27 54.4	40 53.9	0.11 9922	4540	23 8.4
31	13 43 33.91	6 9.41		9 8 48.3	40 40.9	0.12 4462	4200	23 10.6
Nov.								
1	13 49 43.32	6 10.36	-	9 49 29.2	40 22.9	0.12 8662	3878	23 12.9
2	13 55 53.68	6 11.18		10 29 52.1	40 0.2	0.13 2540	3573	23 15.1
3	14 2 4.86	6 11.95		11 9 52.3	39 33.5	0.13 6113	3283	23 17.4
4	14 8 16.81	6 12.66		11 49 25.8	39 3.3	0.13 9396	3008	23 19.7
5	14 14 29.47	6 13.37		12 28 29.1	38 29.7	0.14 2404	2745	23 21.9
6	14 20 42.84	6 14.08		13 6 58.8	37 53.3	0.14 5149	2494	23 24.2
7	14 26 56.92	6 14.80	-	13 44 52.1	37 14.1	0.14 7643	2255	23 26.6
8	14 33 11.72	6 15.60		14 22 6.2	36 32.7	0.14 9898	2027	23 28.9
9	14 39 27.32	6 16.40		14 58 38.9	35 49.0	0.15 1925	1805	23 31.2
10	14 45 43.72	6 17.26		15 34 27.9	35 3.2	0.15 3730	1593	23 33.6
11	14 52 0.98	6 18.20		16 9 31.1	34 15.7	0.15 5323	1389	23 35.9
12	14 58 19.18	6 19.18		16 43 46.8	33 26.2	0.15 6712	1190	23 38.3
13	15 4 38.36	6 20.24	-	17 17 13.0	32 35.1	0.15 7902	998	23 40.7
14	15 10 58.60	6 21.37		17 49 48.1	31 42.4	0.15 8900	810	23 43.1
15	15 17 19.97	6 22.55		18 21 30.5	30 48.2	0.15 9710	627	23 45.5
16	15 23 42.52	6 23.79		18 52 18.7	29 52.4	0.16 0337	448	23 48.0
17	15 30 6.31	6 25.11		19 22 11.1	28 55.2	0.16 0785	271	23 50.5
18	15 36 31.42	6 26.47		19 51 6.3	27 56.6	0.16 1056	98	23 53.0
19	15 42 57.89	6 27.87	-	20 19 2.9	26 56.5	0.16 1154	75	23 55.5
20	15 49 25.76	6 29.32		20 45 59.4	25 55.2	0.16 1079	245	23 58.1
21	15 55 55.08	6 30.80		21 11 54.6	24 52.4	0.16 0834	415	—
22	16 2 25.88	6 32.33		21 36 47.0	23 48.2	0.16 0419	585	0 0.7
23	16 8 58.21	6 33.82		22 0 35.2	22 42.6	0.15 9834	754	0 3.3
24	16 15 32.03			22 23 17.8		0.15 9080		0 5.9

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Nov. 24	16 <sup>h</sup> 15 <sup>m</sup> 32.03 <sup>s</sup> 6 <sup>m</sup> 35.36 <sup>s</sup>	— 22 23 17.8 21 35.6	0.15 9080	0 <sup>h</sup> 5 <sup>m</sup> 9
25	16 22 7.39 6 36.89	22 44 53.4 20 27.3	0.15 8154	926 1098
26	16 28 44.28 6 38.38	23 5 20.7 19 17.5	0.15 7056	1272
27	16 35 22.66 6 39.86	23 24 38.2 18 6.3	0.15 5784	1449
28	16 42 2.52 6 41.28	23 42 44.5 16 53.7	0.15 4335	1628
29	16 48 43.80 6 42.64	23 59 38.2 15 39.9	0.15 2707	1812
30	16 55 26.44 6 43.92	— 24 15 18.1 14 24.5	0.15 0895	1999
Dez. 1	17 2 10.36 6 45.09	24 29 42.6 13 7.7	0.14 8896	2192
2	17 8 55.45 6 46.15	24 42 50.3 11 49.4	0.14 6704	2390
3	17 15 41.60 6 47.07	24 54 39.7 10 30.0	0.14 4314	2593
4	17 22 28.67 6 47.80	25 5 9.7 9 9.1	0.14 1721	2805
5	17 29 16.47 6 48.36	25 14 18.8 7 46.9	0.13 8916	3023
6	17 36 4.83 6 48.67	— 25 22 5.7 6 23.3	0.13 5893	3250
7	17 42 53.50 6 48.73	25 28 29.0 4 58.8	0.13 2643	3486
8	17 49 42.23 6 48.50	25 33 27.8 3 32.8	0.12 9157	3732
9	17 56 30.73 6 47.92	25 37 0.6 2 6.1	0.12 5425	3989
10	18 3 18.65 6 46.97	25 39 6.7 0 38.2	0.12 1436	4256
11	18 10 5.62 6 45.59	25 39 44.9 0 50.3	0.11 7180	4538
12	18 16 51.21 6 43.73	— 25 38 54.6 2 19.5	0.11 2642	4832
13	18 23 34.94 6 41.31	25 36 35.1 3 49.0	0.10 7810	5140
14	18 30 16.25 6 38.28	25 32 46.1 5 18.9	0.10 2670	5465
15	18 36 54.53 6 34.56	25 27 27.2 6 48.2	0.09 7205	5866
16	18 43 29.09 6 30.05	25 20 39.0 8 17.3	0.09 1399	6163
17	18 49 59.14 6 24.65	25 12 21.7 9 45.6	0.08 5236	6539
18	18 56 23.79 6 18.25	— 25 2 36.1 11 12.2	0.07 8697	6933
19	19 2 42.04 6 10.71	24 51 23.9 12 37.0	0.07 1764	7346
20	19 8 52.75 6 1.89	24 38 46.9 13 58.9	0.06 4418	7779
21	19 14 54.64 5 51.62	24 24 48.0 15 17.5	0.05 6639	8229
22	19 20 46.26 5 39.71	24 9 30.5 16 31.6	0.04 8410	8696
23	19 26 25.97 5 25.96	23 52 58.9 17 40.3	0.03 9714	9178
24	19 31 51.93 5 10.14	— 23 35 18.6 18 42.5	0.03 0536	9673
25	19 37 2.07 4 52.01	23 16 36.1 19 36.5	0.02 0863	10174
26	19 41 54.08 4 31.32	22 56 59.6 20 21.3	0.01 0689	10675
27	19 46 25.40 4 7.80	22 36 38.3 20 55.0	0.00 0014	11168
28	19 50 33.20 3 41.22	22 15 43.3 21 16.3	9.98 8846	11641
29	19 54 14.42 3 11.34	21 54 27.0 21 23.2	9.97 7205	12078
30	19 57 25.76 2 38.01	— 21 33 3.8 21 14.5	9.96 5127	12462
31	20 0 3.77 2 1.13	21 11 49.3 20 48.8	9.95 2665	12772
32	20 2 4.90	20 51 0.5	9.93 9893	1



Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Jan. 0	15 <sup>h</sup> 50 <sup>m</sup> 52.85 <sup>s</sup> <small>2 14.14</small>	−15° 53' 18.8" <small>4 2.2</small>	9.61 7550 <small>7038</small>	21 <sup>h</sup> 12.9 <sup>m</sup>
1	15 53 6.99 <small>2 19.96</small>	15 57 21.0 <small>4 33.2</small>	9.62 4588 <small>6995</small>	21 11.2
2	15 55 26.95 <small>2 25.60</small>	16 1 54.2 <small>5 1.8</small>	9.63 1583 <small>6947</small>	21 9.7
3	15 57 52.55 <small>2 31.06</small>	16 6 56.0 <small>5 28.4</small>	9.63 8530 <small>6896</small>	21 8.3
4	16 0 23.61 <small>2 36.35</small>	16 12 24.4 <small>5 52.6</small>	9.64 5426 <small>6842</small>	21 6.9
5	16 2 59.96 <small>2 41.47</small>	16 18 17.0 <small>6 14.8</small>	9.65 2268 <small>6786</small>	21 5.7
6	16 5 41.43 <small>2 46.42</small>	−16 24 31.8 <small>6 34.9</small>	9.65 9054 <small>6728</small>	21 4.5
7	16 8 27.85 <small>2 51.22</small>	16 31 6.7 <small>6 52.8</small>	9.66 5782 <small>6667</small>	21 3.4
8	16 11 19.07 <small>2 55.87</small>	16 37 59.5 <small>7 8.8</small>	9.67 2449 <small>6605</small>	21 2.4
9	16 14 14.94 <small>3 0.36</small>	16 45 8.3 <small>7 22.7</small>	9.67 9054 <small>6541</small>	21 1.4
10	16 17 15.30 <small>3 4.70</small>	16 52 31.0 <small>7 34.8</small>	9.68 5595 <small>6477</small>	21 0.6
11	16 20 20.00 <small>3 8.91</small>	17 0 5.8 <small>7 44.9</small>	9.69 2072 <small>6411</small>	20 59.8
12	16 23 28.91 <small>3 12.96</small>	−17 7 50.7 <small>7 53.2</small>	9.69 8483 <small>6345</small>	20 59.0
13	16 26 41.87 <small>3 16.89</small>	17 15 43.9 <small>7 59.7</small>	9.70 4828 <small>6279</small>	20 58.4
14	16 29 58.76 <small>3 20.68</small>	17 23 43.6 <small>8 4.5</small>	9.71 1107 <small>6212</small>	20 57.8
15	16 33 19.44 <small>3 24.35</small>	17 31 48.1 <small>8 7.6</small>	9.71 7319 <small>6146</small>	20 57.2
16	16 36 43.79 <small>3 27.90</small>	17 39 55.7 <small>8 9.1</small>	9.72 3465 <small>6080</small>	20 56.7
17	16 40 11.69 <small>3 31.35</small>	17 48 4.8 <small>8 9.0</small>	9.72 9545 <small>6013</small>	20 56.3
18	16 43 43.04 <small>3 34.68</small>	−17 56 13.8 <small>8 7.4</small>	9.73 5558 <small>5948</small>	20 55.9
19	16 47 17.72 <small>3 37.92</small>	18 4 21.2 <small>8 4.2</small>	9.74 1506 <small>5883</small>	20 55.6
20	16 50 55.64 <small>3 41.05</small>	18 12 25.4 <small>7 59.6</small>	9.74 7389 <small>5819</small>	20 55.3
21	16 54 36.69 <small>3 44.10</small>	18 20 25.0 <small>7 53.7</small>	9.75 3208 <small>5754</small>	20 55.1
22	16 58 20.79 <small>3 47.05</small>	18 28 18.7 <small>7 46.3</small>	9.75 8962 <small>5692</small>	20 55.0
23	17 2 7.84 <small>3 49.92</small>	18 36 5.0 <small>7 37.7</small>	9.76 4654 <small>5628</small>	20 54.8
24	17 5 57.76 <small>3 52.70</small>	−18 43 42.7 <small>7 27.8</small>	9.77 0282 <small>5567</small>	20 54.8
25	17 9 50.46 <small>3 55.41</small>	18 51 10.5 <small>7 16.7</small>	9.77 5849 <small>5505</small>	20 54.8
26	17 13 45.87 <small>3 58.03</small>	18 58 27.2 <small>7 4.3</small>	9.78 1354 <small>5445</small>	20 54.8
27	17 17 43.90 <small>4 0.57</small>	19 5 31.5 <small>6 50.8</small>	9.78 6799 <small>5385</small>	20 54.8
28	17 21 44.47 <small>4 3.04</small>	19 12 22.3 <small>6 36.2</small>	9.79 2184 <small>5326</small>	20 54.9
29	17 25 47.51 <small>4 5.43</small>	19 18 58.5 <small>6 20.4</small>	9.79 7510 <small>5267</small>	20 55.1
30	17 29 52.94 <small>4 7.75</small>	−19 25 18.9 <small>6 3.6</small>	9.80 2777 <small>5209</small>	20 55.3
31	17 34 0.69 <small>4 10.01</small>	19 31 22.5 <small>5 45.9</small>	9.80 7986 <small>5152</small>	20 55.5
Febr. 1	17 38 10.70 <small>4 12.20</small>	19 37 8.4 <small>5 27.1</small>	9.81 3138 <small>5095</small>	20 55.7
2	17 42 22.90 <small>4 14.30</small>	19 42 35.5 <small>5 7.5</small>	9.81 8233 <small>5039</small>	20 56.0
3	17 46 37.20 <small>4 16.34</small>	19 47 43.0 <small>4 46.8</small>	9.82 3272 <small>4983</small>	20 56.4
4	17 50 53.54 <small>4 18.30</small>	19 52 29.8 <small>4 25.3</small>	9.82 8255 <small>4929</small>	20 56.7
5	17 55 11.84 <small>4 20.18</small>	−19 56 55.1 <small>4 3.0</small>	9.83 3184 <small>4873</small>	20 57.1
6	17 59 32.02 <small>4 21.99</small>	20 0 58.1 <small>3 39.8</small>	9.83 8057 <small>4819</small>	20 57.5
7	18 3 54.01 <small>4 23.72</small>	20 4 37.9 <small>3 16.0</small>	9.84 2876 <small>4765</small>	20 58.0
8	18 8 17.73 <small>4 25.38</small>	20 7 53.9 <small>2 51.3</small>	9.84 7641 <small>4712</small>	20 58.5
9	18 12 43.11 <small>4 26.95</small>	20 10 45.2 <small>2 26.0</small>	9.85 2353 <small>4660</small>	20 59.0
10	18 17 10.06	20 13 11.2	9.85 7013	20 59.5

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Febr. 10	18 <sup>h</sup> 17 <sup>m</sup> 10.06 4 28.45	—20 <sup>o</sup> 13' 11.2 2 0.0	9.85 7013 4608	20 <sup>h</sup> 59.5
11	18 21 38.51 4 29.87	20 15 11.2 1 33.5	9.86 1621 4557	21 0.0
12	18 26 8.38 4 31.21	20 16 44.7 1 6.3	9.86 6178 4507	21 0.6
13	18 30 39.59 4 32.48	20 17 51.0 0 38.6	9.87 0685 4458	21 1.2
14	18 35 12.07 4 33.67	20 18 29.6 0 10.3	9.87 5143 4409	21 1.8
15	18 39 45.74 4 34.80	20 18 39.9 0 18.3	9.87 9552 4361	21 2.5
16	18 44 20.54 4 35.84	—20 18 21.6 0 47.4	9.88 3913 4313	21 3.1
17	18 48 56.38 4 36.82	20 17 34.2 1 17.0	9.88 8226 4268	21 3.8
18	18 53 33.20 4 37.74	20 16 17.2 1 46.9	9.89 2494 4222	21 4.5
19	18 58 10.94 4 38.58	20 14 30.3 2 17.1	9.89 6716 4177	21 5.2
20	19 2 49.52 4 39.37	20 12 13.2 2 47.7	9.90 0893 4134	21 5.9
21	19 7 28.89 4 40.08	20 9 25.5 3 18.4	9.90 5027 4090	21 6.6
22	19 12 8.97 4 40.73	—20 6 7.1 3 49.5	9.90 9117 4048	21 7.3
23	19 16 49.70 4 41.32	20 2 17.6 4 20.7	9.91 3165 4006	21 8.1
24	19 21 31.02 4 41.86	19 57 56.9 4 52.1	9.91 7171 3965	21 8.8
25	19 26 12.88 4 42.33	19 53 4.8 5 23.5	9.92 1136 3924	21 9.6
26	19 30 55.21 4 42.76	19 47 41.3 5 55.2	9.92 5060 3885	21 10.4
27	19 35 37.97 4 43.13	19 41 46.1 6 27.0	9.92 8945 3845	21 11.1
28	19 40 21.10 4 43.44	—19 35 19.1 6 58.7	9.93 2790 3807	21 11.9
März 1	19 45 4.54 4 43.72	19 28 20.4 7 30.5	9.93 6597 3768	21 12.7
2	19 49 48.26 4 43.93	19 20 49.9 8 2.3	9.94 0365 3731	21 13.5
3	19 54 32.19 4 44.09	19 12 47.6 8 34.1	9.94 4096 3693	21 14.3
4	19 59 16.28 4 44.21	19 4 13.5 9 5.7	9.94 7789 3657	21 15.1
5	20 4 0.49 4 44.29	18 55 7.8 9 37.2	9.95 1446 3620	21 15.9
6	20 8 44.78 4 44.30	—18 45 30.6 10 8.7	9.95 5066 3583	21 16.7
7	20 13 29.08 4 44.28	18 35 21.9 10 39.9	9.95 8649 3547	21 17.5
8	20 18 13.36 4 44.21	18 24 42.0 11 10.9	9.96 2196 3512	21 18.2
9	20 22 57.57 4 44.09	18 13 31.1 11 41.8	9.96 5708 3477	21 19.0
10	20 27 41.66 4 43.93	18 1 49.3 12 12.3	9.96 9185 3441	21 19.8
11	20 32 25.59 4 43.72	17 49 37.0 12 42.7	9.97 2626 3407	21 20.6
12	20 37 9.31 4 43.47	—17 36 54.3 13 12.6	9.97 6033 3373	21 21.4
13	20 41 52.78 4 43.19	17 23 41.7 13 42.3	9.97 9406 3339	21 22.2
14	20 46 35.97 4 42.86	17 9 59.4 14 11.7	9.98 2745 3306	21 23.0
15	20 51 18.83 4 42.51	16 55 47.7 14 40.6	9.98 6051 3274	21 23.7
16	20 56 1.34 4 42.12	16 41 7.1 15 9.3	9.98 9325 3241	21 24.5
17	21 0 43.46 4 41.70	16 25 57.8 15 37.5	9.99 2566 3209	21 25.2
18	21 5 25.16 4 41.27	—16 10 20.3 16 5.3	9.99 5775 3178	21 26.0
19	21 10 6.43 4 40.80	15 54 15.0 16 32.7	9.99 8953 3147	21 26.7
20	21 14 47.23 4 40.31	15 37 42.3 16 59.6	0.00 2100 3117	21 27.5
21	21 19 27.54 4 39.81	15 20 42.7 17 26.1	0.00 5217 3087	21 28.2
22	21 24 7.35 4 39.29	15 3 16.6 17 52.0	0.00 8304 3057	21 28.9
23	21 28 46.64	14 45 24.6	0.01 1361	21 29.6



Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
März 23	21 <sup>h</sup> 28 <sup>m</sup> 46.64 <sup>s</sup> 4 38.76	-14° 45' 24.6" 18 17.6	0.01 1361 3028	21 <sup>h</sup> 29.6 <sup>m</sup>
24	21 33 25.40 4 38.22	14 27 7.0 18 42.6	0.01 4389 3000	21 30.3
25	21 38 3.62 4 37.66	14 8 24.4 19 7.2	0.01 7389 2971	21 31.0
26	21 42 41.28 4 37.10	13 49 17.2 19 31.1	0.02 0360 2944	21 31.7
27	21 47 18.38 4 36.55	13 29 46.1 19 54.6	0.02 3304 2916	21 32.3
28	21 51 54.93 4 35.98	13 9 51.5 20 17.6	0.02 6220 2890	21 33.0
29	21 56 30.91 4 35.43	-12 49 33.9 20 40.1	0.02 9110 2863	21 33.6
30	22 1 6.34 4 34.87	12 28 53.8 21 1.9	0.03 1973 2836	21 34.3
31	22 5 41.21 4 34.32	12 7 51.9 21 23.2	0.03 4809 2810	21 34.9
April 1	22 10 15.53 4 33.77	11 46 28.7 21 44.0	0.03 7619 2784	21 35.5
2	22 14 49.30 4 33.24	11 24 44.7 22 4.2	0.04 0403 2758	21 36.1
3	22 19 22.54 4 32.71	11 2 40.5 22 23.9	0.04 3161 2733	21 36.7
4	22 23 55.25 4 32.19	-10 40 16.6 22 42.9	0.04 5894 2707	21 37.3
5	22 28 27.44 4 31.68	10 17 33.7 23 1.3	0.04 8601 2681	21 37.9
6	22 32 59.12 4 31.18	9 54 32.4 23 19.2	0.05 1282 2656	21 38.5
7	22 37 30.30 4 30.68	9 31 13.2 23 36.4	0.05 3938 2631	21 39.1
8	22 42 0.98 4 30.21	9 7 36.8 23 53.0	0.05 6569 2606	21 39.6
9	22 46 31.19 4 29.74	8 43 43.8 24 8.9	0.05 9175 2581	21 40.2
10	22 51 0.93 4 29.28	- 8 19 34.9 24 24.3	0.06 1756 2557	21 40.7
11	22 55 30.21 4 28.84	7 55 10.6 24 38.9	0.06 4313 2532	21 41.3
12	22 59 59.05 4 28.42	7 30 31.7 24 53.0	0.06 6845 2508	21 41.8
13	23 4 27.47 4 28.01	7 5 38.7 25 6.4	0.06 9353 2484	21 42.3
14	23 8 55.48 4 27.62	6 40 32.3 25 19.1	0.07 1837 2460	21 42.9
15	23 13 23.10 4 27.26	6 15 13.2 25 31.3	0.07 4297 2437	21 43.4
16	23 17 50.36 4 26.91	- 5 49 41.9 25 42.7	0.07 6734 2414	21 43.9
17	23 22 17.27 4 26.58	5 23 59.2 25 53.6	0.07 9148 2390	21 44.4
18	23 26 43.85 4 26.28	4 58 5.6 26 3.8	0.08 1538 2368	21 44.9
19	23 31 10.13 4 26.00	4 32 1.8 26 13.3	0.08 3906 2345	21 45.4
20	23 35 36.13 4 25.75	4 5 48.5 26 22.2	0.08 6251 2324	21 45.8
21	23 40 1.88 4 25.52	3 39 26.3 26 30.4	0.08 8575 2301	21 46.3
22	23 44 27.40 4 25.33	- 3 12 55.9 26 38.0	0.09 0876 2279	21 46.8
23	23 48 52.73 4 25.16	2 46 17.9 26 45.0	0.09 3155 2258	21 47.3
24	23 53 17.89 4 25.03	2 19 32.9 26 51.3	0.09 5413 2237	21 47.8
25	23 57 42.92 4 24.92	1 52 41.6 26 57.0	0.09 7650 2216	21 48.2
26	0 2 7.84 4 24.85	1 25 44.6 27 2.0	0.09 9866 2195	21 48.7
27	0 6 32.69 4 24.82	0 58 42.6 27 6.5	0.10 2061 2175	21 49.2
28	0 10 57.51 4 24.81	- 0 31 36.1 27 10.2	0.10 4236 2154	21 49.6
29	0 15 22.32 4 24.85	- 0 4 25.9 27 13.3	0.10 6390 2134	21 50.1
30	0 19 47.17 4 24.92	+ 0 22 47.4 27 15.9	0.10 8524 2114	21 50.6
Mai 1	0 24 12.09 4 25.02	0 50 3.3 27 17.7	0.11 0638 2094	21 51.1
2	0 28 37.11 4 25.16	1 17 21.0 27 19.0	0.11 2732 2073	21 51.5
3	0 33 2.27 4 25.16	1 44 40.0 27 19.0	0.11 4805 2052	21 52.0



Tag	O <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination			
1923					
Mai	3	0 33 2.27 4 25.33	+ 1 44 40.0 27 19.5	0.11 4805 2054	21 52.0
	4	0 37 27.60 4 25.54	2 11 59.5 27 19.4	0.11 6859 2033	21 52.5
	5	0 41 53.14 4 25.78	2 39 18.9 27 18.7	0.11 8892 2013	21 53.0
	6	0 46 18.92 4 26.06	3 6 37.6 27 17.3	0.12 0905 1994	21 53.5
	7	0 50 44.98 4 26.36	3 33 54.9 27 15.1	0.12 2899 1973	21 54.0
	8	0 55 11.34 4 26.69	4 1 10.0 27 12.4	0.12 4872 1953	21 54.5
	9	0 59 38.03 4 27.06	+ 4 28 22.4 27 8.9	0.12 6825 1934	21 55.0
	10	1 4 5.09 4 27.46	4 55 31.3 27 4.8	0.12 8759 1913	21 55.5
	11	1 8 32.55 4 27.89	5 22 36.1 26 59.9	0.13 0672 1894	21 56.0
	12	1 13 0.44 4 28.34	5 49 36.0 26 54.5	0.13 2566 1874	21 56.6
	13	1 17 28.78 4 28.84	6 16 30.5 26 48.3	0.13 4440 1855	21 57.1
	14	1 21 57.62 4 29.36	6 43 18.8 26 41.4	0.13 6295 1835	21 57.6
	15	1 26 26.98 4 29.91	+ 7 10 0.2 26 33.8	0.13 8130 1816	21 58.2
	16	1 30 56.89 4 30.49	7 36 34.0 26 25.6	0.13 9946 1797	21 58.8
	17	1 35 27.38 4 31.10	8 2 59.6 26 16.7	0.14 1743 1778	21 59.3
	18	1 39 58.48 4 31.75	8 29 16.3 26 7.1	0.14 3521 1759	21 59.9
	19	1 44 30.23 4 32.41	8 55 23.4 25 56.7	0.14 5280 1740	22 0.5
	20	1 49 2.64 4 33.11	9 21 20.1 25 45.7	0.14 7020 1722	22 1.1
	21	1 53 35.75 4 33.84	+ 9 47 5.8 25 34.0	0.14 8742 1703	22 1.7
	22	1 58 9.59 4 34.60	10 12 39.8 25 21.7	0.15 0445 1685	22 2.4
	23	2 2 44.19 4 35.38	10 38 1.5 25 8.5	0.15 2130 1667	22 3.0
	24	2 7 19.57 4 36.20	11 3 10.0 24 54.8	0.15 3797 1649	22 3.7
	25	2 11 55.77 4 37.05	11 28 4.8 24 40.3	0.15 5446 1631	22 4.4
	26	2 16 32.82 4 37.92	11 52 45.1 24 25.2	0.15 7077 1613	22 5.1
	27	2 21 10.74 4 38.83	+ 12 17 10.3 24 9.3	0.15 8690 1596	22 5.8
	28	2 25 49.57 4 39.75	12 41 19.6 23 52.8	0.16 0286 1578	22 6.5
	29	2 30 29.32 4 40.71	13 5 12.4 23 35.6	0.16 1864 1561	22 7.2
	30	2 35 10.03 4 41.68	13 28 48.0 23 17.7	0.16 3425 1544	22 8.0
	31	2 39 51.71 4 42.69	13 52 5.7 22 59.1	0.16 4969 1526	22 8.7
Juni	1	2 44 34.40 4 43.71	14 15 4.8 22 39.8	0.16 6495 1508	22 9.5
	2	2 49 18.11 4 44.74	+ 14 37 44.6 22 19.8	0.16 8003 1491	22 10.3
	3	2 54 2.85 4 45.80	15 0 4.4 21 59.1	0.16 9494 1473	22 11.1
	4	2 58 48.65 4 46.87	15 22 3.5 21 37.7	0.17 0967 1456	22 12.0
	5	3 3 35.52 4 47.95	15 43 41.2 21 15.5	0.17 2423 1438	22 12.8
	6	3 8 23.47 4 49.05	16 4 56.7 20 52.8	0.17 3861 1421	22 13.7
	7	3 13 12.52 4 50.15	16 25 49.5 20 29.2	0.17 5282 1403	22 14.6
	8	3 18 2.67 4 51.26	+ 16 46 18.7 20 5.0	0.17 6685 1385	22 15.5
	9	3 22 53.93 4 52.37	17 6 23.7 19 40.1	0.17 8070 1368	22 16.4
	10	3 27 46.30 4 53.49	17 26 3.8 19 14.6	0.17 9438 1350	22 17.4
	11	3 32 39.79 4 54.60	17 45 18.4 18 48.2	0.18 0788 1333	22 18.3
	12	3 37 34.39 4 55.71	18 4 6.6 18 21.3	0.18 2121 1315	22 19.3
	13	3 42 30.10	18 22 27.9	0.18 3436	22 20.3

Tag	O <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich			
	Scheinbare Rektaszension	Scheinbare Deklination	Bibl. Jag.					
<b>1923</b>								
<b>Juni</b>	13	3 42 30.10	4 56.82	+18° 22' 27.9	17 53.6	0.18 3436	1298	22 20.3
	14	3 47 26.92	4 57.93	18 40 21.5	17 25.3	0.18 4734	1280	22 21.4
	15	3 52 24.85	4 59.03	18 57 46.8	16 56.3	0.18 6014	1263	22 22.4
	16	3 57 23.88	5 0.12	19 14 43.1	16 26.6	0.18 7277	1246	22 23.5
	17	4 2 24.00	5 1.19	19 31 9.7	15 56.4	0.18 8523	1229	22 24.5
	18	4 7 25.19	5 2.26	19 47 6.1	15 25.5	0.18 9752	1212	22 25.6
	19	4 12 27.45		+20 2 31.6		0.19 0964	1195	22 26.7
	20	4 17 30.76	5 3.31	20 17 25.6	14 54.0	0.19 2159	1178	22 27.9
	21	4 22 35.10	5 4.34	20 31 47.5	14 21.9	0.19 3337	1161	22 29.0
	22	4 27 40.45	5 5.35	20 45 36.6	13 49.1	0.19 4498	1145	22 30.2
	23	4 32 46.79	5 6.34	20 58 52.5	13 15.9	0.19 5643	1129	22 31.4
	24	4 37 54.11	5 7.32	21 11 34.5	12 42.0	0.19 6772	1112	22 32.6
	25	4 43 2.37	5 8.26		12 7.7			
	25	4 43 2.37	5 9.18	+21 23 42.2		0.19 7884	1097	22 33.8
	26	4 48 11.55	5 10.08	21 35 14.9	11 32.7	0.19 8981	1080	22 35.0
	27	4 53 21.63	5 10.95	21 46 12.2	10 57.3	0.20 0061	1064	22 36.2
	28	4 58 32.58	5 11.79	21 56 33.5	10 21.3	0.20 1125	1048	22 37.5
	29	5 3 44.37	5 12.60	22 6 18.4	9 44.9	0.20 2173	1031	22 38.8
	30	5 8 56.97	5 13.36	22 15 26.5	9 8.1	0.20 3204	1016	22 40.0
	30	5 8 56.97	5 13.36		8 30.8			
<b>Juli</b>	1	5 14 10.33	5 14.09	+22 23 57.3		0.20 4220	1000	22 41.3
	2	5 19 24.42	5 14.78	22 31 50.4	7 53.1	0.20 5220	983	22 42.6
	3	5 24 39.20	5 15.42	22 39 5.4	7 15.0	0.20 6203	967	22 43.9
	4	5 29 54.62	5 16.03	22 45 41.9	6 36.5	0.20 7170	951	22 45.3
	5	5 35 10.65	5 16.58	22 51 39.6	5 57.7	0.20 8121	934	22 46.6
	6	5 40 27.23	5 17.08	22 56 58.2	5 18.6	0.20 9055	918	22 47.9
	7	5 45 44.31	5 17.54	+23 1 37.3	4 39.1	0.20 9973	902	22 49.3
	8	5 51 1.85	5 17.94	23 5 36.7	3 59.4	0.21 0875	886	22 50.7
	9	5 56 19.79	5 18.29	23 8 56.2	3 19.5	0.21 1761	869	22 52.0
	10	6 1 38.08	5 18.59	23 11 35.6	2 39.4	0.21 2630	853	22 53.4
	11	6 6 56.67	5 18.83	23 13 34.5	1 58.9	0.21 3483	836	22 54.8
	12	6 12 15.50	5 19.01	23 14 53.0	1 18.5	0.21 4319	821	22 56.1
	13	6 17 34.51	5 19.13	+23 15 30.8	0 37.8	0.21 5140	804	22 57.5
	14	6 22 53.64	5 19.21	23 15 27.8	0 3.0	0.21 5944	788	22 58.9
	15	6 28 12.85	5 19.23	23 14 44.0	0 43.8	0.21 6732	772	23 0.3
	16	6 33 32.08	5 19.18	23 13 19.4	1 24.6	0.21 7504	756	23 1.6
	17	6 38 51.26	5 19.08	23 11 13.9	2 5.5	0.21 8260	740	23 3.0
	18	6 44 10.34	5 18.93	23 8 27.5	2 46.4	0.21 9000	724	23 4.4
	19	6 49 29.27	5 18.72	+23 5 0.3	3 27.2	0.21 9724	708	23 5.8
	20	6 54 47.99	5 18.46	23 0 52.4	4 7.9	0.22 0432	693	23 7.1
	21	7 0 6.45	5 18.14	22 56 3.8	4 48.6	0.22 1125	677	23 8.5
	22	7 5 24.59	5 17.78	22 50 34.7	5 29.1	0.22 1802	662	23 9.9
	23	7 10 42.37	5 17.37	22 44 25.4	6 9.3	0.22 2464	647	23 11.2
	24	7 15 59.74		22 37 35.9	6 49.5	0.22 3111		23 12.5

Tag	0 <sup>h</sup> mittlere Zeit Greenwich						log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension			Scheinbare Deklination				
1923								
Juli 24	7 <sup>h</sup> 15 <sup>m</sup> 59.74	5 <sup>m</sup> 16.91	4-22 37 35.9	7 29.4	0.22 3111	632	23 <sup>h</sup> 12.5	
25	7 21 16.65	5 16.41	22 30 6.5	8 9.2	0.22 3743	616	23 13.9	
26	7 26 33.06	5 15.87	22 21 57.3	8 48.5	0.22 4359	602	23 15.2	
27	7 31 48.93	5 15.28	22 13 8.8	9 27.7	0.22 4961	587	23 16.5	
28	7 37 4.21	5 14.65	22 3 41.1	10 6.5	0.22 5548	571	23 17.8	
29	7 42 18.86	5 13.98	21 53 34.6	10 45.0	0.22 6119	557	23 19.1	
30	7 47 32.84	5 13.28	+21 42 49.6	11 23.1	0.22 6676	542	23 20.4	
31	7 52 46.12	5 12.54	21 31 26.5	12 0.8	0.22 7218	527	23 21.7	
Aug. 1	7 57 58.66	5 11.76	21 19 25.7	12 38.1	0.22 7745	512	23 22.9	
2	8 3 10.42	5 10.95	21 6 47.6	13 14.9	0.22 8257	497	23 24.2	
3	8 8 21.37	5 10.12	20 53 32.7	13 51.3	0.22 8754	482	23 25.4	
4	8 13 31.49	5 9.25	20 39 41.4	14 27.2	0.22 9236	466	23 26.6	
5	8 18 40.74	5 8.35	+20 25 14.2	15 2.6	0.22 9702	452	23 27.8	
6	8 23 49.09	5 7.44	20 10 11.6	15 37.6	0.23 0154	437	23 29.0	
7	8 28 56.53	5 6.49	19 54 34.0	16 11.9	0.23 0591	422	23 30.1	
8	8 34 3.02	5 5.53	19 38 22.1	16 45.7	0.23 1013	407	23 31.3	
9	8 39 8.55	5 4.55	19 21 36.4	17 19.0	0.23 1420	392	23 32.4	
10	8 44 13.10	5 3.55	19 4 17.4	17 51.7	0.23 1812	376	23 33.5	
11	8 49 16.65	5 2.54	+18 46 25.7	18 23.7	0.23 2188	362	23 34.6	
12	8 54 19.19	5 1.51	18 28 2.0	18 55.1	0.23 2550	347	23 35.7	
13	8 59 20.70	5 0.47	18 9 6.9	19 26.0	0.23 2897	332	23 36.8	
14	9 4 21.17	4 59.43	17 49 40.9	19 56.1	0.23 3229	317	23 37.8	
15	9 9 20.60	4 58.37	17 29 44.8	20 25.7	0.23 3546	303	23 38.9	
16	9 14 18.97	4 57.32	17 9 19.1	20 54.6	0.23 3849	288	23 39.9	
17	9 19 16.29	4 56.26	+16 48 24.5	21 22.8	0.23 4137	273	23 40.9	
18	9 24 12.55	4 55.21	16 27 1.7	21 50.3	0.23 4410	260	23 41.9	
19	9 29 7.76	4 54.17	16 5 11.4	22 17.2	0.23 4670	245	23 42.8	
20	9 34 1.93	4 53.12	15 42 54.2	22 43.4	0.23 4915	231	23 43.8	
21	9 38 55.05	4 52.10	15 20 10.8	23 8.9	0.23 5146	217	23 44.7	
22	9 43 47.15	4 51.08	14 57 1.9	23 33.8	0.23 5363	203	23 45.6	
23	9 48 38.23	4 50.09	+14 33 28.1	23 57.8	0.23 5566	190	23 46.5	
24	9 53 28.32	4 49.10	14 9 30.3	24 21.3	0.23 5756	176	23 47.4	
25	9 58 17.42	4 48.13	13 45 9.0	24 44.1	0.23 5932	162	23 48.2	
26	10 3 5.55	4 47.18	13 20 24.9	25 6.1	0.23 6094	149	23 49.1	
27	10 7 52.73	4 46.26	12 55 18.8	25 27.4	0.23 6243	135	23 49.9	
28	10 12 38.99	4 45.36	12 29 51.4	25 48.1	0.23 6378	122	23 50.7	
29	10 17 24.35	4 44.49	+12 4 3.3	26 7.9	0.23 6500	109	23 51.5	
30	10 22 8.84	4 43.63	11 37 55.4	26 27.2	0.23 6609	95	23 52.3	
31	10 26 52.47	4 42.80	11 11 28.2	26 45.6	0.23 6704	82	23 53.1	
Sept. 1	10 31 35.27	4 42.01	10 44 42.6	27 3.3	0.23 6786	68	23 53.8	
2	10 36 17.28	4 41.23	10 17 39.3	27 20.4	0.23 6854	54	23 54.6	
3	10 40 58.51		9 50 18.9		0.23 6908		23 55.3	



Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Sept. 3	10 <sup>h</sup> 40 <sup>m</sup> 58.51 <sup>s</sup> 4 40.50	+ 9 50 18.9 27 36.7	0.23 6908	42 23 55.3
4	10 45 39.01 4 39.78	9 22 42.2 27 52.3	0.23 6950	27 23 56.0
5	10 50 18.79 4 39.11	8 54 49.9 28 7.1	0.23 6977	15 23 56.7
6	10 54 57.90 4 38.46	8 26 42.8 28 21.3	0.23 6992	1 23 57.5
7	10 59 36.36 4 37.85	7 58 21.5 28 34.6	0.23 6993	13 23 58.1
8	11 4 14.21 4 37.26	7 29 46.9 28 47.3	0.23 6980	26 23 58.8
9	11 8 51.47 4 36.71	+ 7 0 59.6 28 59.2	0.23 6954	39 23 59.5
10	11 13 28.18 4 36.20	6 32 0.4 29 10.4	0.23 6915	53 —
11	11 18 4.38 4 35.71	6 2 50.0 29 20.8	0.23 6862	66 0 0.2
12	11 22 40.09 4 35.27	5 33 29.2 29 30.5	0.23 6796	79 0 0.8
13	11 27 15.36 4 34.86	5 3 58.7 29 39.4	0.23 6717	93 0 1.5
14	11 31 50.22 4 34.48	4 34 19.3 29 47.7	0.23 6624	105 0 2.1
15	11 36 24.70 4 34.15	+ 4 4 31.6 29 55.1	0.23 6519	119 0 2.7
16	11 40 58.85 4 33.84	3 34 36.5 30 1.8	0.23 6400	131 0 3.3
17	11 45 32.69 4 33.59	3 4 34.7 30 7.9	0.23 6269	144 0 4.0
18	11 50 6.28 4 33.37	2 34 26.8 30 13.1	0.23 6125	157 0 4.6
19	11 54 39.65 4 33.19	2 4 13.7 30 17.6	0.23 5968	169 0 5.2
20	11 59 12.84 4 33.06	1 33 56.1 30 21.5	0.23 5799	181 0 5.8
21	12 3 45.90 4 32.97	+ 1 3 34.6 30 24.6	0.23 5618	194 0 6.4
22	12 8 18.87 4 32.92	0 33 10.0 30 26.9	0.23 5424	206 0 7.0
23	12 12 51.79 4 32.92	+ 0 2 43.1 30 28.6	0.23 5218	217 0 7.6
24	12 17 24.71 4 32.96	0 27 45.5 30 29.4	0.23 5001	230 0 8.2
25	12 21 57.67 4 33.05	0 58 14.9 30 29.6	0.23 4771	242 0 8.8
26	12 26 30.72 4 33.18	1 28 44.5 30 29.0	0.23 4529	253 0 9.5
27	12 31 3.90 4 33.35	1 59 13.5 30 27.8	0.23 4276	266 0 10.1
28	12 35 37.25 4 33.56	2 29 41.3 30 25.7	0.23 4010	277 0 10.7
29	12 40 10.81 4 33.83	3 0 7.0 30 23.0	0.23 3733	290 0 11.3
30	12 44 44.64 4 34.13	3 30 30.0 30 19.4	0.23 3443	301 0 11.9
(Okt. 1	12 49 18.77 4 34.48	4 0 49.4 30 15.2	0.23 3142	313 0 12.5
2	12 53 53.25 4 34.86	4 31 4.6 30 10.2	0.23 2829	324 0 13.2
3	12 58 28.11 4 35.30	5 1 14.8 30 4.4	0.23 2505	337 0 13.8
4	13 3 3.41 4 35.77	5 31 19.2 29 57.9	0.23 2168	349 0 14.5
5	13 7 39.18 4 36.28	6 1 17.1 29 50.6	0.23 1819	360 0 15.1
6	13 12 15.46 4 36.84	6 31 7.7 29 42.5	0.23 1459	373 0 15.8
7	13 16 52.30 4 37.43	7 0 50.2 29 33.7	0.23 1086	384 0 16.4
8	13 21 29.73 4 38.06	7 30 23.9 29 24.2	0.23 0702	396 0 17.1
9	13 26 7.79 4 38.73	7 59 48.1 29 13.8	0.23 0306	409 0 17.8
10	13 30 46.52 4 39.43	8 29 1.9 29 2.7	0.22 9897	420 0 18.5
11	13 35 25.95 4 40.17	8 58 4.6 28 50.7	0.22 9477	433 0 19.2
12	13 40 6.12 4 40.94	9 26 55.3 28 38.0	0.22 9044	444 0 20.0
13	13 44 47.06 4 41.74	9 55 33.3 28 24.4	0.22 8600	456 0 20.7
14	13 49 28.80	10 23 57.7	0.22 8144	0 21.5

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Oktober				
14	13 <sup>h</sup> 49 <sup>m</sup> 28.80 <sup>s</sup> 4 42.57	10° 23' 57.7" 28 10.1	0.22 8144 468	0 <sup>h</sup> 21.5 <sup>m</sup>
15	13 54 11.37 4 43.45	10 52 7.8 27 55.0	0.22 7676 480	0 22.2
16	13 58 54.82 4 44.35	11 20 2.8 27 39.0	0.22 7196 491	0 23.0
17	14 3 39.17 4 45.28	11 47 41.8 27 22.4	0.22 6705 502	0 23.8
18	14 8 24.45 4 46.25	12 15 4.2 27 4.8	0.22 6203 514	0 24.6
19	14 13 10.70 4 47.25	12 42 9.0 26 46.5	0.22 5689 525	0 25.5
20	14 17 57.95 4 48.28	13 8 55.5 26 27.5	0.22 5164 536	0 26.3
21	14 22 16.23 4 49.33	13 35 23.0 26 7.5	0.22 4628 547	0 27.2
22	14 27 35.56 4 50.40	14 1 30.5 25 46.9	0.22 4081 559	0 28.0
23	14 32 25.96 4 51.51	14 27 17.4 25 25.4	0.22 3522 569	0 28.9
24	14 37 17.47 4 52.64	14 52 42.8 25 3.1	0.22 2953 580	0 29.9
25	14 42 10.11 4 53.80	15 17 45.9 24 40.0	0.22 2373 591	0 30.8
26	14 47 3.91 4 54.97	15 42 25.9 24 16.2	0.22 1782 602	0 31.8
27	14 51 58.88 4 56.16	16 6 42.1 23 51.5	0.22 1180 613	0 32.7
28	14 56 55.04 4 57.36	16 30 33.6 23 26.1	0.22 0567 623	0 33.7
29	15 1 52.40 4 58.59	16 53 59.7 22 59.8	0.21 9944 635	0 34.7
30	15 6 50.99 4 59.82	17 16 59.5 22 32.8	0.21 9309 645	0 35.8
31	15 11 50.81 5 1.07	17 39 32.3 22 5.0	0.21 8664 657	0 36.8
November				
1	15 16 51.88 5 2.32	18 1 37.3 21 36.4	0.21 8007 667	0 37.9
2	15 21 54.20 5 3.58	18 23 13.7 21 7.0	0.21 7340 679	0 39.0
3	15 26 57.78 5 4.83	18 44 20.7 20 36.8	0.21 6661 690	0 40.1
4	15 32 2.61 5 6.09	19 4 57.5 20 5.9	0.21 5971 701	0 41.3
5	15 37 8.70 5 7.33	19 25 3.4 19 34.3	0.21 5270 712	0 42.4
6	15 42 16.03 5 8.57	19 44 37.7 19 1.8	0.21 4558 724	0 43.6
7	15 47 24.60 5 9.80	20 3 39.5 18 28.6	0.21 3834 735	0 44.8
8	15 52 34.40 5 11.02	20 22 8.1 17 54.7	0.21 3099 746	0 46.0
9	15 57 45.42 5 12.21	20 40 2.8 17 20.1	0.21 2353 758	0 47.3
10	16 2 57.63 5 13.39	20 57 22.9 16 44.8	0.21 1595 770	0 48.5
11	16 8 11.02 5 14.54	21 14 7.7 16 8.7	0.21 0825 781	0 49.8
12	16 13 25.56 5 15.66	21 30 16.4 15 31.9	0.21 0044 793	0 51.1
13	16 18 41.22 5 16.76	21 45 48.3 14 54.6	0.20 9251 804	0 52.4
14	16 23 57.98 5 17.82	22 0 42.9 14 16.6	0.20 8447 815	0 53.8
15	16 29 15.80 5 18.85	22 14 59.5 13 37.9	0.20 7632 826	0 55.1
16	16 34 34.65 5 19.85	22 28 37.4 12 58.7	0.20 6806 838	0 56.5
17	16 39 54.50 5 20.82	22 41 36.1 12 18.8	0.20 5968 850	0 57.9
18	16 45 15.32 5 21.73	22 53 54.9 11 38.5	0.20 5118 860	0 59.3
19	16 50 37.05 5 22.60	23 5 33.4 10 57.5	0.20 4258 871	I 0.7
20	16 55 59.65 5 23.44	23 16 30.9 10 16.1	0.20 3387 883	I 2.1
21	17 1 23.09 5 24.22	23 26 47.0 9 34.3	0.20 2504 893	I 3.6
22	17 6 47.31 5 24.96	23 36 21.3 8 51.9	0.20 1611 905	I 5.1
23	17 12 12.27 5 25.63	23 45 13.2 8 9.1	0.20 0706 916	I 6.5
24	17 17 37.90	23 53 22.3	0.19 9790	I 8.0

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Nov. 24	17 <sup>h</sup> 17 <sup>m</sup> 37.90 <sup>s</sup>	5 <sup>m</sup> 26.27 <sup>s</sup>	−23° 53' 22.3"	0.19 9790
25	17 23 4.17	5 26.85	24 0 48.3	0.19 8863
26	17 28 31.02	5 27.36	24 7 30.8	0.19 7925
27	17 33 58.38	5 27.82	24 13 29.5	0.19 6976
28	17 39 26.20	5 28.22	24 18 44.1	0.19 6016
29	17 44 54.42	5 28.56	24 23 14.3	0.19 5044
30	17 50 22.98	5 28.83	−24 26 59.8	0.19 4061
Dez. 1	17 55 51.81	5 29.04	24 30 0.5	0.19 3066
2	18 1 20.85	5 29.18	24 32 16.2	0.19 2060
3	18 6 50.03	5 29.26	24 33 46.8	0.19 1042
4	18 12 19.29	5 29.27	24 34 32.3	0.19 0012
5	18 17 48.56	5 29.20	24 34 32.4	0.18 8971
6	18 23 17.76	5 29.08	−24 33 47.2	0.18 7917
7	18 28 46.84	5 28.87	24 32 16.8	0.18 6850
8	18 34 15.71	5 28.60	24 30 1.1	0.18 5772
9	18 39 44.31	5 28.25	24 27 0.3	0.18 4681
10	18 45 12.56	5 27.84	24 23 14.5	0.18 3577
11	18 50 40.40	5 27.36	24 18 43.8	0.18 2460
12	18 56 7.76	5 26.81	−24 13 28.5	0.18 1331
13	19 1 34.57	5 26.19	24 7 28.7	0.18 0189
14	19 7 0.76	5 25.52	24 0 44.8	0.17 9034
15	19 12 26.28	5 24.78	23 53 17.0	0.17 7866
16	19 17 51.06	5 23.99	23 45 5.6	0.17 6686
17	19 23 15.05	5 23.14	23 36 11.0	0.17 5493
18	19 28 38.19	5 22.24	−23 26 33.6	0.17 4287
19	19 34 0.43	5 21.30	23 16 13.8	0.17 3068
20	19 39 21.73	5 20.29	23 5 12.0	0.17 1836
21	19 44 42.02	5 19.24	22 53 28.8	0.17 0591
22	19 50 1.26	5 18.16	22 41 4.6	0.16 9333
23	19 55 19.42	5 17.04	22 27 59.9	0.16 8063
24	20 0 36.46	5 15.87	−22 14 15.3	0.16 6779
25	20 5 52.33	5 14.68	21 59 51.4	0.16 5482
26	20 11 7.01	5 13.46	21 44 48.7	0.16 4171
27	20 16 20.47	5 12.20	21 29 7.8	0.16 2848
28	20 21 32.67	5 10.93	21 12 49.4	0.16 1510
29	20 26 43.60	5 9.63	20 55 54.2	0.16 0159
30	20 31 53.23	5 8.32	−20 38 22.7	0.15 8795
31	20 37 1.55	5 6.98	20 20 15.6	0.15 7416
32	20 42 8.53		20 1 33.7	0.15 6023



Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Jan. 0	23 <sup>h</sup> 4 <sup>m</sup> 38.83 <sup>s</sup> <small>2 41.92</small>	-6° 43' 46.9" <small>18 8.5</small>	0.17 9557 <small>2104</small>	4 <sup>h</sup> 27 <sup>m</sup> 9
1	23 7 20.75 <small>2 41.72</small>	6 25 38.4 <small>18 10.7</small>	0.18 1661 <small>2097</small>	4 26.7 <small>1.5 10</small>
2	23 10 2.47 <small>2 41.53</small>	6 7 27.7 <small>18 12.8</small>	0.18 3758 <small>2089</small>	4 25.4
3	23 12 44.00 <small>2 41.34</small>	5 49 14.9 <small>18 14.7</small>	0.18 5847 <small>2081</small>	4 24.2
4	23 15 25.34 <small>2 41.15</small>	5 31 0.2 <small>18 16.5</small>	0.18 7928 <small>2075</small>	4 22.9
5	23 18 6.49 <small>2 40.98</small>	5 12 43.7 <small>18 18.1</small>	0.19 0003 <small>2067</small>	4 21.7
6	23 20 47.47 <small>2 40.81</small>	-4 54 25.6 <small>18 19.5</small>	0.19 2070 <small>2059</small>	4 20.4 <small>1.5 56</small>
7	23 23 28.28 <small>2 40.66</small>	4 36 6.1 <small>18 20.9</small>	0.19 4129 <small>2052</small>	4 19.1
8	23 26 8.94 <small>2 40.51</small>	4 17 45.2 <small>18 22.0</small>	0.19 6181 <small>2045</small>	4 17.9
9	23 28 49.45 <small>2 40.37</small>	3 59 23.2 <small>18 23.1</small>	0.19 8226 <small>2037</small>	4 16.6
10	23 31 29.82 <small>2 40.24</small>	3 41 0.1 <small>18 23.9</small>	0.20 0263 <small>2030</small>	4 15.3
11	23 34 10.06 <small>2 40.13</small>	3 22 36.2 <small>18 24.6</small>	0.20 2293 <small>2022</small>	4 14.1 <small>1.5 43</small>
12	23 36 50.19 <small>2 40.01</small>	-3 4 11.6 <small>18 25.1</small>	0.20 4315 <small>2015</small>	4 12.8
13	23 39 30.20 <small>2 39.90</small>	2 45 46.5 <small>18 25.5</small>	0.20 6330 <small>2007</small>	4 11.5
14	23 42 10.10 <small>2 39.79</small>	2 27 21.0 <small>18 25.8</small>	0.20 8337 <small>1998</small>	4 10.2
15	23 44 49.89 <small>2 39.71</small>	2 8 55.2 <small>18 25.8</small>	0.21 0335 <small>1991</small>	4 8.9
16	23 47 29.60 <small>2 39.62</small>	1 50 29.4 <small>18 25.8</small>	0.21 2326 <small>1983</small>	4 7.7 <small>1.6 31</small>
17	23 50 9.22 <small>2 39.53</small>	1 32 3.6 <small>18 25.5</small>	0.21 4309 <small>1974</small>	4 6.4
18	23 52 48.75 <small>2 39.45</small>	-1 13 38.1 <small>18 25.0</small>	0.21 6283 <small>1966</small>	4 5.1
19	23 55 28.20 <small>2 39.37</small>	0 55 13.1 <small>18 24.5</small>	0.21 8249 <small>1957</small>	4 3.8
20	23 58 7.57 <small>2 39.30</small>	0 36 48.6 <small>18 23.7</small>	0.22 0206 <small>1949</small>	4 2.5
21	0 0 46.87 <small>2 39.24</small>	0 18 24.9 <small>18 22.8</small>	0.22 2155 <small>1941</small>	4 1.2 <small>1.6 48</small>
22	0 3 26.11 <small>2 39.17</small>	-0 0 2.1 <small>18 21.7</small>	0.22 4096 <small>1932</small>	4 0.0
23	0 6 5.28 <small>2 39.12</small>	+0 18 19.6 <small>18 20.6</small>	0.22 6028 <small>1924</small>	3 58.7
24	0 8 44.40 <small>2 39.07</small>	+0 36 40.2 <small>18 19.1</small>	0.22 7952 <small>1915</small>	3 57.4
25	0 11 23.47 <small>2 39.01</small>	0 54 59.3 <small>18 17.5</small>	0.22 9867 <small>1906</small>	3 56.1
26	0 14 2.48 <small>2 38.98</small>	1 13 16.8 <small>18 15.8</small>	0.23 1773 <small>1898</small>	3 54.8 <small>1.7 05</small>
27	0 16 41.46 <small>2 38.93</small>	1 31 32.6 <small>18 13.9</small>	0.23 3671 <small>1890</small>	3 53.5
28	0 19 20.39 <small>2 38.91</small>	1 49 46.5 <small>18 11.9</small>	0.23 5561 <small>1881</small>	3 52.2
29	0 21 59.30 <small>2 38.87</small>	2 7 58.4 <small>18 9.6</small>	0.23 7442 <small>1872</small>	3 50.9
30	0 24 38.17 <small>2 38.85</small>	+2 26 8.0 <small>18 7.3</small>	0.23 9314 <small>1864</small>	3 49.6
31	0 27 17.02 <small>2 38.84</small>	2 44 15.3 <small>18 4.9</small>	0.24 1178 <small>1856</small>	3 48.3 <small>1.7 43</small>
Febr. 1	0 29 55.86 <small>2 38.83</small>	3 2 20.2 <small>18 2.2</small>	0.24 3034 <small>1848</small>	3 47.0 <small>1.7 50</small>
2	0 32 34.69 <small>2 38.84</small>	3 20 22.4 <small>17 59.5</small>	0.24 4882 <small>1840</small>	3 45.8
3	0 35 13.53 <small>2 38.85</small>	3 38 21.9 <small>17 56.6</small>	0.24 6722 <small>1832</small>	3 44.5
4	0 37 52.38 <small>2 38.87</small>	3 56 18.5 <small>17 53.5</small>	0.24 8554 <small>1823</small>	3 43.2
5	0 40 31.25 <small>2 38.90</small>	+4 14 12.0 <small>17 50.4</small>	0.25 0377 <small>1815</small>	3 41.9
6	0 43 10.15 <small>2 38.94</small>	4 32 2.4 <small>17 47.0</small>	0.25 2192 <small>1807</small>	3 40.6 <small>1.7 87</small>
7	0 45 49.09 <small>2 38.98</small>	4 49 49.4 <small>17 43.7</small>	0.25 3999 <small>1799</small>	3 39.3
8	0 48 28.07 <small>2 39.04</small>	5 7 33.1 <small>17 40.1</small>	0.25 5798 <small>1790</small>	3 38.0
9	0 51 7.11 <small>2 39.10</small>	5 25 13.2 <small>17 36.4</small>	0.25 7588 <small>1782</small>	3 36.7
10	0 53 46.21	5 42 49.6	0.25 9370	3 35.4

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Febr. 10	<sup>h</sup> 53 <sup>m</sup> 46.2 <sup>s</sup> <sup>a</sup> 2 39.17	+ 5 42 49.6 <sup>v</sup> 17 32.6	0.25 9370 <sup>r</sup> 1774	<sup>h</sup> 3 <sup>m</sup> 35.4
11	0 56 25.38 <sup>a</sup> 2 39.25	6 0 22.2 <sup>v</sup> 17 28.7	0.26 1144 <sup>r</sup> 1765	3 34.1
12	0 59 4.63 <sup>a</sup> 2 39.33	6 17 50.9 <sup>v</sup> 17 24.5	0.26 2909 <sup>r</sup> 1756	3 32.9
13	1 1 43.96 <sup>a</sup> 2 39.42	6 35 15.4 <sup>v</sup> 17 20.3	0.26 4665 <sup>r</sup> 1748	3 31.6
14	1 4 23.38 <sup>a</sup> 2 39.51	6 52 35.7 <sup>v</sup> 17 16.0	0.26 6413 <sup>r</sup> 1738	3 30.3
15	1 7 2.89 <sup>a</sup> 2 39.61	7 9 51.7 <sup>v</sup> 17 11.5	0.26 8151 <sup>r</sup> 1730	3 29.0
16	1 9 42.50 <sup>a</sup> 2 39.72	+ 7 27 3.2 <sup>v</sup> 17 6.8	0.26 9881 <sup>r</sup> 1721	3 27.7
17	1 12 22.22 <sup>a</sup> 2 39.82	7 44 10.0 <sup>v</sup> 17 1.9	0.27 1602 <sup>r</sup> 1711	3 26.4
18	1 15 2.04 <sup>a</sup> 2 39.95	8 1 11.9 <sup>v</sup> 16 57.1	0.27 3313 <sup>r</sup> 1703	3 25.1
19	1 17 41.99 <sup>a</sup> 2 40.04	8 18 9.0 <sup>v</sup> 16 52.1	0.27 5016 <sup>r</sup> 1693	3 23.9
20	1 20 22.03 <sup>a</sup> 2 40.16	8 35 1.1 <sup>v</sup> 16 46.8	0.27 6709 <sup>r</sup> 1684	3 22.6
21	1 23 2.19 <sup>a</sup> 2 40.28	8 51 47.9 <sup>v</sup> 16 41.5	0.27 8393 <sup>r</sup> 1675	3 21.3
22	1 25 42.47 <sup>a</sup> 2 40.41	+ 9 8 29.4 <sup>v</sup> 16 35.9	0.28 0068 <sup>r</sup> 1666	3 20.1
23	1 28 22.88 <sup>a</sup> 2 40.54	9 25 5.3 <sup>v</sup> 16 30.4	0.28 1734 <sup>r</sup> 1656	3 18.8
24	1 31 3.42 <sup>a</sup> 2 40.66	9 41 35.7 <sup>v</sup> 16 24.5	0.28 3390 <sup>r</sup> 1647	3 17.5
25	1 33 44.08 <sup>a</sup> 2 40.80	9 58 0.2 <sup>v</sup> 16 18.7	0.28 5037 <sup>r</sup> 1638	3 16.3
26	1 36 24.88 <sup>a</sup> 2 40.94	10 14 18.9 <sup>v</sup> 16 12.6	0.28 6675 <sup>r</sup> 1629	3 15.0
27	1 39 5.82 <sup>a</sup> 2 41.08	10 30 31.5 <sup>v</sup> 16 6.5	0.28 8304 <sup>r</sup> 1620	3 13.8
28	1 41 46.90 <sup>a</sup> 2 41.23	+ 10 46 38.0 <sup>v</sup> 16 0.2	0.28 9924 <sup>r</sup> 1611	3 12.5
März 1	1 44 28.13 <sup>a</sup> 2 41.38	11 2 38.2 <sup>v</sup> 15 53.8	0.29 1535 <sup>r</sup> 1602	3 11.3
2	1 47 9.51 <sup>a</sup> 2 41.53	11 18 32.0 <sup>v</sup> 15 47.2	0.29 3137 <sup>r</sup> 1593	3 10.0
3	1 49 51.04 <sup>a</sup> 2 41.70	11 34 19.2 <sup>v</sup> 15 40.6	0.29 4730 <sup>r</sup> 1585	3 8.7
4	1 52 32.74 <sup>a</sup> 2 41.87	11 49 59.8 <sup>v</sup> 15 33.8	0.29 6315 <sup>r</sup> 1575	3 7.5
5	1 55 14.61 <sup>a</sup> 2 42.04	12 5 33.6 <sup>v</sup> 15 26.9	0.29 7890 <sup>r</sup> 1567	3 6.2
6	1 57 56.65 <sup>a</sup> 2 42.23	+ 12 21 0.5 <sup>v</sup> 15 20.0	0.29 9457 <sup>r</sup> 1558	3 5.0
7	2 0 38.88 <sup>a</sup> 2 42.42	12 36 20.5 <sup>v</sup> 15 12.9	0.30 1015 <sup>r</sup> 1549	3 3.8
8	2 3 21.30 <sup>a</sup> 2 42.61	12 51 33.4 <sup>v</sup> 15 5.6	0.30 2564 <sup>r</sup> 1541	3 2.5
9	2 6 3.91 <sup>a</sup> 2 42.81	13 6 39.0 <sup>v</sup> 14 58.3	0.30 4105 <sup>r</sup> 1531	3 1.3
10	2 8 46.72 <sup>a</sup> 2 43.02	13 21 37.3 <sup>v</sup> 14 50.9	0.30 5636 <sup>r</sup> 1522	3 0.1
11	2 11 29.74 <sup>a</sup> 2 43.23	13 36 28.2 <sup>v</sup> 14 43.4	0.30 7158 <sup>r</sup> 1514	2 58.8
12	2 14 12.97 <sup>a</sup> 2 43.43	+ 13 51 11.6 <sup>v</sup> 14 35.7	0.30 8672 <sup>r</sup> 1504	2 57.6
13	2 16 56.40 <sup>a</sup> 2 43.65	14 5 47.3 <sup>v</sup> 14 27.9	0.31 0176 <sup>r</sup> 1494	2 56.4
14	2 19 40.05 <sup>a</sup> 2 43.87	14 20 15.2 <sup>v</sup> 14 20.0	0.31 1670 <sup>r</sup> 1486	2 55.2
15	2 22 23.92 <sup>a</sup> 2 44.08	14 34 35.2 <sup>v</sup> 14 12.1	0.31 3156 <sup>r</sup> 1476	2 54.0
16	2 25 8.00 <sup>a</sup> 2 44.30	14 48 47.3 <sup>v</sup> 14 3.9	0.31 4632 <sup>r</sup> 1467	2 52.8
17	2 27 52.30 <sup>a</sup> 2 44.52	15 2 51.2 <sup>v</sup> 13 55.7	0.31 6099 <sup>r</sup> 1457	2 51.6
18	2 30 36.82 <sup>a</sup> 2 44.75	+ 15 16 46.9 <sup>v</sup> 13 47.2	0.31 7556 <sup>r</sup> 1447	2 50.4
19	2 33 21.57 <sup>a</sup> 2 44.96	15 30 34.1 <sup>v</sup> 13 38.9	0.31 9003 <sup>r</sup> 1438	2 49.2
20	2 36 6.53 <sup>a</sup> 2 45.19	15 44 13.0 <sup>v</sup> 13 30.3	0.32 0441 <sup>r</sup> 1428	2 48.0
21	2 38 51.72 <sup>a</sup> 2 45.41	15 57 43.3 <sup>v</sup> 13 21.6	0.32 1869 <sup>r</sup> 1419	2 46.8
22	2 41 37.13 <sup>a</sup> 2 45.62	16 11 4.9 <sup>v</sup> 13 12.9	0.32 3288 <sup>r</sup> 1409	2 45.6
23	2 44 22.75	16 24 17.8	0.32 4697	2 44.4

Tag	O <sup>b</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
März 23	<sup>h</sup> 2 44 <sup>m</sup> 22.75 <sup>s</sup> 2 45.85	+16° 24' 17.8"	0.32 4697	<sup>h</sup> 2 44.4
24	2 47 8.60 2 46.07	16 37 21.7	0.32 6097	2 43.3
25	2 49 54.67 2 46.29	16 50 16.6	0.32 7487	2 42.1
26	2 52 40.96 2 46.50	17 3 2.4	0.32 8867	2 40.9 2.132
27	2 55 27.46 2 46.72	17 15 38.9	0.33 0238	2 39.8
28	2 58 14.18 2 46.94	17 28 6.1	0.33 1599	2 38.6
29	3 1 1.12 2 47.16	+17 40 23.8	0.33 2950	2 37.4
30	3 3 48.28 2 47.37	17 52 32.0	0.33 4293	2 36.3
31	3 6 35.65 2 47.58	18 4 30.5	0.33 5626	2 35.1 2.166
April 1	3 9 23.23 2 47.81	18 16 19.3	0.33 6950	2 34.0
2	3 12 11.04 2 48.03	18 27 58.2	0.33 8264	2 32.8 2.172
3	3 14 59.07 2 48.24	18 39 27.2	0.33 9570	2 31.7
4	3 17 47.31 2 48.48	+18 50 46.3	0.34 0866	2 30.6
5	3 20 35.79 2 48.69	19 1 55.2	0.34 2153	2 29.4
6	3 23 24.48 2 48.92	19 12 54.0	0.34 3431	2 28.3 2.185
7	3 26 13.40 2 49.15	19 23 42.4	0.34 4699	2 27.1
8	3 29 2.55 2 49.36	19 34 20.7	0.34 5958	2 26.0
9	3 31 51.91 2 49.59	19 44 48.5	0.34 7208	2 24.9
10	3 34 41.50 2 49.81	+19 55 5.8	0.34 8449	2 23.8
11	3 37 31.31 2 50.03	20 5 12.6	0.34 9680	2 22.7 2.137
12	3 40 21.34 2 50.24	20 15 8.8	0.35 0902	2 21.6
13	3 43 11.58 2 50.46	20 24 54.2	0.35 2114	2 20.5
14	3 46 2.04 2 50.66	20 34 28.9	0.35 3316	2 19.4
15	3 48 52.70 2 50.86	20 43 52.7	0.35 4508	2 18.3
16	3 51 43.56 2 51.06	+20 53 5.5	0.35 5691	2 17.2 2.148
17	3 54 34.62 2 51.25	21 2 7.3	0.35 6864	2 16.1
18	3 57 25.87 2 51.44	21 10 57.9	0.35 8027	2 15.0
19	4 0 17.31 2 51.62	21 19 37.4	0.35 9180	2 13.9
20	4 3 8.93 2 51.78	21 28 5.7	0.36 0324	2 12.9
21	4 6 0.71 2 51.96	21 36 22.6	0.36 1457	2 11.8 2.139
22	4 8 52.67 2 52.12	+21 44 28.2	0.36 2581	2 10.7
23	4 11 44.79 2 52.28	21 52 22.3	0.36 3695	2 9.6
24	4 14 37.07 2 52.42	22 0 4.9	0.36 4799	2 8.6
25	4 17 29.49 2 52.57	22 7 36.0	0.36 5894	2 7.5
26	4 20 22.06 2 52.70	22 14 55.4	0.36 6979	2 6.4 2.128
27	4 23 14.76 2 52.84	22 22 3.2	0.36 8054	2 5.4
28	4 26 7.60 2 52.95	+22 28 59.2	0.36 9119	2 4.3
29	4 29 0.55 2 53.08	22 35 43.5	0.37 0175	2 3.2
30	4 31 53.63 2 53.20	22 42 15.9	0.37 1222	2 2.2
Mai 1	4 34 46.83 2 53.31	22 48 36.5	0.37 2259	2 1.1 2.156
2	4 37 40.14 2 53.42	22 54 45.1	0.37 3287	2 0.1
3	4 40 33.56	23 0 41.8	0.37 4306	1 59.0



Tag	O <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination			
1923					
Mai	3	4 <sup>h</sup> 40 <sup>m</sup> 33.56 <sup>s</sup> <small>2 53.53</small>	+23° 0' 41.8" <small>5 44.7</small>	0.37 4306 <small>1009</small>	I 59.0
	4	4 43 27.09 <small>2 53.63</small>	23 6 26.5 <small>5 32.7</small>	0.37 5315 <small>1000</small>	I 58.0
	5	4 46 20.72 <small>2 53.73</small>	23 11 59.2 <small>5 20.7</small>	0.37 6315 <small>990</small>	I 56.9
	6	4 49 14.45 <small>2 53.81</small>	23 17 19.9 <small>5 8.5</small>	0.37 7305 <small>981</small>	I 55.9
	7	4 52 8.26 <small>2 53.90</small>	23 22 28.4 <small>4 56.4</small>	0.37 8286 <small>971</small>	I 54.8
	8	4 55 2.16 <small>2 53.97</small>	23 27 24.8 <small>4 44.4</small>	0.37 9257 <small>962</small>	I 53.8
	9	4 57 56.13 <small>2 54.05</small>	+23 32 9.2 <small>4 32.3</small>	0.38 0219 <small>952</small>	I 52.8
	10	5 0 50.18 <small>2 54.11</small>	23 36 41.5 <small>4 20.0</small>	0.38 1171 <small>943</small>	I 51.7
	11	5 3 44.29 <small>2 54.16</small>	23 41 1.5 <small>4 7.9</small>	0.38 2114 <small>933</small>	I 50.7
	12	5 6 38.45 <small>2 54.21</small>	23 45 9.4 <small>3 55.7</small>	0.38 3047 <small>923</small>	I 49.6
	13	5 9 32.66 <small>2 54.26</small>	23 49 5.1 <small>3 43.5</small>	0.38 3970 <small>913</small>	I 48.6
	14	5 12 26.92 <small>2 54.28</small>	23 52 48.6 <small>3 31.2</small>	0.38 4883 <small>903</small>	I 47.6
	15	5 15 21.20 <small>2 54.30</small>	+23 56 19.8 <small>3 18.9</small>	0.38 5786 <small>893</small>	I 46.5
	16	5 18 15.50 <small>2 54.31</small>	23 59 38.7 <small>3 6.7</small>	0.38 6679 <small>883</small>	I 45.5
	17	5 21 9.81 <small>2 54.32</small>	24 2 45.4 <small>2 54.4</small>	0.38 7562 <small>874</small>	I 44.4
	18	5 24 4.13 <small>2 54.31</small>	24 5 39.8 <small>2 42.1</small>	0.38 8436 <small>863</small>	I 43.4
	19	5 26 58.44 <small>2 54.29</small>	24 8 21.9 <small>2 29.9</small>	0.38 9299 <small>854</small>	I 42.4
	20	5 29 52.73 <small>2 54.27</small>	24 10 51.8 <small>2 17.6</small>	0.39 0153 <small>844</small>	I 41.3
	21	5 32 47.00 <small>2 54.22</small>	+24 13 9.4 <small>2 5.3</small>	0.39 0997 <small>833</small>	I 40.3
	22	5 35 41.22 <small>2 54.18</small>	24 15 14.7 <small>1 53.0</small>	0.39 1830 <small>824</small>	I 39.3
23	5 38 35.40 <small>2 54.13</small>	24 17 7.7 <small>1 40.7</small>	0.39 2654 <small>814</small>	I 38.2	
24	5 41 29.53 <small>2 54.06</small>	24 18 48.4 <small>1 28.5</small>	0.39 3468 <small>804</small>	I 37.2	
25	5 44 23.59 <small>2 53.99</small>	24 20 16.9 <small>1 16.3</small>	0.39 4272 <small>795</small>	I 36.1	
26	5 47 17.58 <small>2 53.90</small>	24 21 33.2 <small>1 4.0</small>	0.39 5067 <small>785</small>	I 35.1	
27	5 50 11.48 <small>2 53.82</small>	+24 22 37.2 <small>0 51.8</small>	0.39 5852 <small>775</small>	I 34.1	
28	5 53 5.30 <small>2 53.72</small>	24 23 29.0 <small>0 39.6</small>	0.39 6627 <small>766</small>	I 33.0	
29	5 55 59.02 <small>2 53.62</small>	24 24 8.6 <small>0 27.5</small>	0.39 7393 <small>756</small>	I 32.0	
30	5 58 52.64 <small>2 53.50</small>	24 24 36.1 <small>0 15.2</small>	0.39 8149 <small>747</small>	I 30.9	
31	6 1 46.14 <small>2 53.39</small>	24 24 51.3 <small>0 3.1</small>	0.39 8896 <small>737</small>	I 29.9	
Juni	1	6 4 39.53 <small>2 53.28</small>	24 24 54.4 <small>0 9.0</small>	0.39 9633 <small>728</small>	I 28.8
	2	6 7 32.81 <small>2 53.15</small>	+24 24 45.4 <small>0 21.1</small>	0.40 0361 <small>718</small>	I 27.8
	3	6 10 25.96 <small>2 53.03</small>	24 24 24.3 <small>0 33.2</small>	0.40 1079 <small>708</small>	I 26.7
	4	6 13 18.99 <small>2 52.88</small>	24 23 51.1 <small>0 45.2</small>	0.40 1787 <small>699</small>	I 25.6
	5	6 16 11.87 <small>2 52.74</small>	24 23 5.9 <small>0 57.2</small>	0.40 2486 <small>690</small>	I 24.6
	6	6 19 4.61 <small>2 52.60</small>	24 22 8.7 <small>1 9.1</small>	0.40 3176 <small>679</small>	I 23.5
	7	6 21 57.21 <small>2 52.43</small>	24 20 59.6 <small>1 21.0</small>	0.40 3855 <small>670</small>	I 22.5
	8	6 24 49.64 <small>2 52.26</small>	+24 19 38.6 <small>1 32.8</small>	0.40 4525 <small>660</small>	I 21.4
	9	6 27 41.90 <small>2 52.09</small>	24 18 5.8 <small>1 44.6</small>	0.40 5185 <small>650</small>	I 20.3
	10	6 30 33.99 <small>2 51.90</small>	24 16 21.2 <small>1 56.4</small>	0.40 5835 <small>640</small>	I 19.2
	11	6 33 25.89 <small>2 51.72</small>	24 14 24.8 <small>2 8.1</small>	0.40 6475 <small>630</small>	I 18.2
	12	6 36 17.61 <small>2 51.51</small>	24 12 16.7 <small>2 19.8</small>	0.40 7105 <small>621</small>	I 17.1
	13	6 39 9.12	24 9 56.9	0.40 7726	I 16.0

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Juni 13	6 <sup>h</sup> 39 <sup>m</sup> 9.12	2 <sup>m</sup> 51.31	+24 9 56.9	0.40 7726
14	6 42 0.43	2 51.09	24 7 25.5	0.40 8336
15	6 44 51.52	2 50.86	24 4 42.5	0.40 8936
16	6 47 42.38	2 50.64	24 1 48.0	0.40 9526
17	6 50 33.02	2 50.40	23 58 42.2	0.41 0106
18	6 53 23.42	2 50.15	23 55 25.0	0.41 0676
19	6 56 13.57	2 49.89	+23 51 56.4	0.41 1236
20	6 59 3.46	2 49.63	23 48 16.6	0.41 1786
21	7 1 53.09	2 49.36	23 44 25.6	0.41 2325
22	7 4 42.45	2 49.08	23 40 23.5	0.41 2855
23	7 7 31.53	2 48.80	23 36 10.3	0.41 3375
24	7 10 20.33	2 48.51	23 31 46.1	0.41 3885
25	7 13 8.84	2 48.22	+23 27 11.0	0.41 4385
26	7 15 57.06	2 47.93	23 22 25.0	0.41 4875
27	7 18 44.99	2 47.62	23 17 28.3	0.41 5356
28	7 21 32.61	2 47.32	23 12 20.8	0.41 5827
29	7 24 19.93	2 47.03	23 7 2.8	0.41 6288
30	7 27 6.96	2 46.71	23 1 34.1	0.41 6740
Juli 1	7 29 53.67	2 46.41	+22 55 55.0	0.41 7182
2	7 32 40.08	2 46.10	22 50 5.4	0.41 7614
3	7 35 26.18	2 45.79	22 44 5.5	0.41 8036
4	7 38 11.97	2 45.47	22 37 55.4	0.41 8448
5	7 40 57.44	2 45.14	22 31 35.1	0.41 8851
6	7 43 42.58	2 44.83	22 25 4.7	0.41 9243
7	7 46 27.41	2 44.50	+22 18 24.3	0.41 9626
8	7 49 11.91	2 44.17	22 11 34.0	0.41 9998
9	7 51 56.08	2 43.84	22 4 33.8	0.42 0361
10	7 54 39.92	2 43.50	21 57 23.9	0.42 0713
11	7 57 23.42	2 43.17	21 50 4.4	0.42 1055
12	8 0 6.59	2 42.82	21 42 35.3	0.42 1387
13	8 2 49.41	2 42.47	+21 34 56.7	0.42 1708
14	8 5 31.88	2 42.13	21 27 8.8	0.42 2019
15	8 8 14.01	2 41.78	21 19 11.6	0.42 2320
16	8 10 55.79	2 41.42	21 11 5.2	0.42 2610
17	8 13 37.21	2 41.06	21 2 49.8	0.42 2890
18	8 16 18.27	2 40.69	20 54 25.3	0.42 3160
19	8 18 58.96	2 40.33	+20 45 51.9	0.42 3419
20	8 21 39.29	2 39.97	20 37 9.8	0.42 3668
21	8 24 19.26	2 39.60	20 28 18.9	0.42 3906
22	8 26 58.86	2 39.23	20 19 19.5	0.42 4135
23	8 29 38.09	2 38.87	20 10 11.5	0.42 4353
24	8 32 16.96		20 0 55.1	0.42 4561

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Juli 24	8 <sup>h</sup> 32 <sup>m</sup> 16.96 <sup>s</sup> 2 38.51	+20° 0' 55.1"	9 24.7	0.42 4561 <sup>198</sup> 0 27.5
25	8 34 55.47 2 38.14	19 51 30.4	9 32.9	0.42 4759 <sup>188</sup> 0 26.2
26	8 37 33.61 2 37.78	19 41 57.5	9 41.1	0.42 4947 <sup>178</sup> 0 24.9
27	8 40 11.39 2 37.42	19 32 16.4	9 49.1	0.42 5125 <sup>168</sup> 0 23.6
28	8 42 48.81 2 37.05	19 22 27.3	9 57.2	0.42 5293 <sup>158</sup> 0 22.3
29	8 45 25.86 2 36.71	19 12 30.1	10 4.9	0.42 5451 <sup>148</sup> 0 21.0
30	8 48 2.57 2 36.36	+19 2 25.2	10 12.8	0.42 5599 <sup>137</sup> 0 19.6
31	8 50 38.93 2 36.01	18 52 12.4	10 20.4	0.42 5736 <sup>128</sup> 0 18.3
Aug. 1	8 53 14.94 2 35.67	18 41 52.0	10 28.0	0.42 5864 <sup>117</sup> 0 17.0
2	8 55 50.61 2 35.32	18 31 24.0	10 35.5	0.42 5981 <sup>107</sup> 0 15.6
3	8 58 25.93 2 34.97	18 20 48.5	10 42.9	0.42 6088 <sup>96</sup> 0 14.3
4	9 1 0.90 2 34.63	18 10 5.6	10 50.2	0.42 6184 <sup>86</sup> 0 12.9
5	9 3 35.53 2 34.30	+17 59 15.4	10 57.4	0.42 6270 <sup>75</sup> 0 11.5
6	9 6 9.83 2 33.95	17 48 18.0	11 4.4	0.42 6345 <sup>65</sup> 0 10.2
7	9 8 43.78 2 33.62	17 37 13.6	11 11.4	0.42 6410 <sup>55</sup> 0 8.8
8	9 11 17.40 2 33.29	17 26 2.2	11 18.3	0.42 6465 <sup>43</sup> 0 7.4
9	9 13 50.69 2 32.95	17 14 43.9	11 25.1	0.42 6508 <sup>33</sup> 0 6.0
10	9 16 23.64 2 32.62	17 3 18.8	11 31.8	0.42 6541 <sup>23</sup> 0 4.6
11	9 18 56.26 2 32.28	+16 51 47.0	11 38.3	0.42 6564 <sup>11</sup> 0 3.2
12	9 21 28.54 2 31.96	16 40 8.7	11 44.8	0.42 6575 <sup>1</sup> 0 1.8
13	9 24 0.50 2 31.63	16 28 23.9	11 51.2	0.42 6576 <sup>11</sup> { 0 0.4 } 23 59.0
14	9 26 32.13 2 31.30	16 16 32.7	11 57.5	0.42 6565 <sup>21</sup> 23 57.6
15	9 29 3.43 2 30.98	16 4 35.2	12 3.6	0.42 6544 <sup>32</sup> 23 56.1
16	9 31 34.41 2 30.65	15 52 31.6	12 9.6	0.42 6512 <sup>43</sup> 23 54.7
17	9 34 5.06 2 30.33	+15 40 22.0	12 15.7	0.42 6469 <sup>53</sup> 23 53.3
18	9 36 35.39 2 30.01	15 28 6.3	12 21.4	0.42 6416 <sup>65</sup> 23 51.8
19	9 39 5.40 2 29.69	15 15 44.9	12 27.3	0.42 6351 <sup>75</sup> 23 50.4
20	9 41 35.09 2 29.38	15 3 17.6	12 32.8	0.42 6276 <sup>85</sup> 23 48.9
21	9 44 4.47 2 29.07	14 50 44.8	12 38.5	0.42 6191 <sup>97</sup> 23 47.5
22	9 46 33.54 2 28.77	14 38 6.3	12 44.0	0.42 6094 <sup>107</sup> 23 46.0
23	9 49 2.31 2 28.47	+14 25 22.3	12 49.4	0.42 5987 <sup>118</sup> 23 44.6
24	9 51 30.78 2 28.18	14 12 32.9	12 54.7	0.42 5869 <sup>128</sup> 23 43.1
25	9 53 58.96 2 27.89	13 59 38.2	12 59.9	0.42 5741 <sup>139</sup> 23 41.6
26	9 56 26.85 2 27.61	13 46 38.3	13 5.0	0.42 5602 <sup>150</sup> 23 40.1
27	9 58 54.46 2 27.34	13 33 33.3	13 10.0	0.42 5452 <sup>160</sup> 23 38.6
28	10 1 21.80 2 27.07	13 20 23.3	13 15.0	0.42 5292 <sup>171</sup> 23 37.1
29	10 3 48.87 2 26.81	+13 7 8.3	13 19.8	0.42 5121 <sup>182</sup> 23 35.6
30	10 6 15.68 2 26.55	12 53 48.5	13 24.5	0.42 4939 <sup>192</sup> 23 34.1
31	10 8 42.23 2 26.30	12 40 24.0	13 29.2	0.42 4747 <sup>204</sup> 23 32.6
Sept. 1	10 11 8.53 2 26.05	12 26 54.8	13 33.7	0.42 4543 <sup>214</sup> 23 31.1
2	10 13 34.58 2 25.81	12 13 21.1	13 38.3	0.42 4329 <sup>226</sup> 23 29.6
3	10 16 0.39	11 59 42.8		0.42 4103 23 28.1



Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Sept. 3	10 <sup>h</sup> 16 <sup>m</sup> 0.39 <sup>s</sup> 2 25.56	+11 59 42.8 15 42.5	0.42 4103 237	23 <sup>h</sup> 28 <sup>m</sup> .1
4	10 18 25.95 2 25.34	11 46 0.3 15 46.9	0.42 3866 248	23 26.6
5	10 20 51.29 2 25.11	11 32 13.4 15 51.0	0.42 3618 259	23 25.1
6	10 23 16.40 2 24.88	11 18 22.4 15 55.1	0.42 3359 270	23 23.5
7	10 25 41.28 2 24.67	11 4 27.3 15 59.1	0.42 3089 282	23 22.0
8	10 28 5.95 2 24.44	10 50 28.2 14 3.0	0.42 2807 294	23 20.5
9	10 30 30.39 2 24.23	+10 36 25.2 14 6.8	0.42 2513 305	23 19.0
10	10 32 54.62 2 24.01	10 22 18.4 14 10.4	0.42 2208 316	23 17.4
11	10 35 18.63 2 23.80	10 8 8.0 14 14.0	0.42 1892 328	23 15.9
12	10 37 42.43 2 23.61	9 53 54.0 14 17.5	0.42 1564 340	23 14.3
13	10 40 6.04 2 23.41	9 39 36.5 14 20.8	0.42 1224 351	23 12.8
14	10 42 29.45 2 23.21	9 25 15.7 14 24.2	0.42 0873 362	23 11.2
15	10 44 52.66 2 23.02	+ 9 10 51.5 14 27.2	0.42 0511 374	23 9.6
16	10 47 15.68 2 22.83	8 56 24.3 14 30.4	0.42 0137 385	23 8.1
17	10 49 38.51 2 22.65	8 41 53.9 14 33.4	0.41 9752 397	23 6.5
18	10 52 1.16 2 22.48	8 27 20.5 14 36.2	0.41 9355 408	23 5.0
19	10 54 23.64 2 22.31	8 12 44.3 14 39.1	0.41 8947 420	23 3.4
20	10 56 45.95 2 22.15	7 58 5.2 14 41.8	0.41 8527 431	23 1.8
21	10 59 8.10 2 21.99	+ 7 43 23.4 14 44.5	0.41 8096 442	23 0.3
22	11 1 30.09 2 21.84	7 28 38.9 14 47.0	0.41 7654 454	22 58.7
23	11 3 51.93 2 21.71	7 13 51.9 14 49.4	0.41 7200 465	22 57.1
24	11 6 13.64 2 21.57	6 59 2.5 14 51.9	0.41 6735 476	22 55.6
25	11 8 35.21 2 21.45	6 44 10.6 14 54.2	0.41 6259 488	22 54.0
26	11 10 56.66 2 21.33	6 29 16.4 14 56.4	0.41 5771 499	22 52.4
27	11 13 17.99 2 21.20	+ 6 14 20.0 14 58.5	0.41 5272 511	22 50.8
28	11 15 39.19 2 21.11	5 59 21.5 15 0.5	0.41 4761 523	22 49.2
29	11 18 0.30 2 21.01	5 44 21.0 15 2.5	0.41 4238 535	22 47.6
30	11 20 21.31 2 20.92	5 29 18.5 15 4.3	0.41 3703 546	22 46.0
Okt. 1	11 22 42.23 2 20.84	5 14 14.2 15 6.1	0.41 3157 558	22 44.4
2	11 25 3.07 2 20.75	4 59 8.1 15 7.8	0.41 2599 570	22 42.8
3	11 27 23.82 2 20.68	+ 4 44 0.3 15 9.4	0.41 2029 582	22 41.2
4	11 29 44.50 2 20.60	4 28 50.9 15 10.8	0.41 1447 594	22 39.6
5	11 32 5.10 2 20.54	4 13 40.1 15 12.3	0.41 0853 606	22 38.0
6	11 34 25.64 2 20.47	3 58 27.8 15 13.6	0.41 0247 618	22 36.4
7	11 36 46.11 2 20.42	3 43 14.2 15 14.7	0.40 9629 631	22 34.8
8	11 39 6.53 2 20.37	3 27 59.5 15 15.8	0.40 8998 643	22 33.2
9	11 41 26.90 2 20.32	+ 3 12 43.7 15 16.9	0.40 8355 656	22 31.6
10	11 43 47.22 2 20.28	2 57 26.8 15 17.8	0.40 7699 668	22 30.0
11	11 46 7.50 2 20.24	2 42 9.0 15 18.5	0.40 7031 680	22 28.4
12	11 48 27.74 2 20.20	2 26 50.5 15 19.3	0.40 6351 692	22 26.8
13	11 50 47.94 2 20.17	2 11 31.2 15 19.9	0.40 5659 705	22 25.2
14	11 53 8.11	1 56 11.3	0.40 4954	22 23.6

Tag	O <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1923					
Okt. 14	11 <sup>h</sup> 53 <sup>m</sup> 8.11 <sup>s</sup> 2 <sup>m</sup> 20.13	+1 <sup>°</sup> 56' 11.3" 15 20.4	0.40 4954	718	22 <sup>h</sup> 23.6 <sup>m</sup>
15	11 55 28.24 2 20.12	1 40 50.9 15 20.8	0.40 4236	729	22 22.0
16	11 57 48.36 2 20.11	1 25 30.1 15 21.1	0.40 3507	742	22 20.4
17	12 0 8.47 2 20.09	1 10 9.0 15 21.3	0.40 2765	754	22 18.8
18	12 2 28.56 2 20.10	0 54 47.7 15 21.5	0.40 2011	766	22 17.2
19	12 4 48.66 2 20.10	0 39 26.2 15 21.5	0.40 1245	779	22 15.6
20	12 7 8.76 2 20.12	+0 24 4.7 15 21.5	0.40 0466	790	22 14.0
21	12 9 28.88 2 20.14	+0 8 43.2 15 21.4	0.39 9676	803	22 12.4
22	12 11 49.02 2 20.17	-0 6 38.2 15 21.2	0.39 8873	815	22 10.8
23	12 14 9.19 2 20.21	0 21 59.4 15 21.0	0.39 8058	828	22 9.2
24	12 16 29.40 2 20.24	0 37 20.4 15 20.6	0.39 7230	840	22 7.5
25	12 18 49.64 2 20.30	0 52 41.0 15 20.1	0.39 6390	852	22 5.9
26	12 21 9.94 2 20.35	-1 8 1.1 15 19.6	0.39 5538	865	22 4.3
27	12 23 30.29 2 20.41	1 23 20.7 15 19.0	0.39 4673	877	22 2.7
28	12 25 50.70 2 20.48	1 38 39.7 15 18.3	0.39 3796	890	22 1.1
29	12 28 11.18 2 20.56	1 53 58.0 15 17.4	0.39 2906	902	21 59.5
30	12 30 31.74 2 20.64	2 9 15.4 15 16.5	0.39 2004	916	21 57.9
31	12 32 52.38 2 20.72	2 24 31.9 15 15.6	0.39 1088	928	21 56.4
Nov. 1	12 35 13.10 2 20.82	-2 39 47.5 15 14.5	0.39 0160	941	21 54.8
2	12 37 33.92 2 20.92	2 55 2.0 15 13.3	0.38 9219	954	21 53.2
3	12 39 54.84 2 21.02	3 10 15.3 15 12.0	0.38 8265	967	21 51.6
4	12 42 15.86 2 21.13	3 25 27.3 15 10.7	0.38 7298	981	21 50.0
5	12 44 36.99 2 21.23	3 40 38.0 15 9.2	0.38 6317	993	21 48.4
6	12 46 58.22 2 21.34	3 55 47.2 15 7.5	0.38 5324	1007	21 46.8
7	12 49 19.56 2 21.46	-4 10 54.7 15 5.9	0.38 4317	1020	21 45.2
8	12 51 41.02 2 21.58	4 26 0.6 15 4.1	0.38 3297	1034	21 43.6
9	12 54 2.60 2 21.70	4 41 4.7 15 2.2	0.38 2263	1046	21 42.1
10	12 56 24.30 2 21.83	4 56 6.9 15 0.2	0.38 1217	1060	21 40.5
11	12 58 46.13 2 21.96	5 11 7.1 14 58.1	0.38 0157	1074	21 38.9
12	13 1 8.09 2 22.09	5 26 5.2 14 55.9	0.37 9083	1086	21 37.4
13	13 3 30.18 2 22.23	-5 41 1.1 14 53.6	0.37 7997	1100	21 35.8
14	13 5 52.41 2 22.38	5 55 54.7 14 51.2	0.37 6897	1112	21 34.2
15	13 8 14.79 2 22.53	6 10 45.9 14 48.7	0.37 5785	1126	21 32.6
16	13 10 37.32 2 22.69	6 25 34.6 14 46.1	0.37 4659	1139	21 31.1
17	13 13 0.01 2 22.84	6 40 20.7 14 43.5	0.37 3520	1152	21 29.5
18	13 15 22.85 2 23.03	6 55 4.2 14 40.7	0.37 2368	1165	21 28.0
19	13 17 45.88 2 23.20	-7 9 44.9 14 37.8	0.37 1203	1178	21 26.4
20	13 20 9.08 2 23.39	7 24 22.7 14 34.9	0.37 0025	1192	21 24.8
21	13 22 32.47 2 23.57	7 38 57.6 14 31.9	0.36 8833	1204	21 23.3
22	13 24 56.04 2 23.77	7 53 29.5 14 28.8	0.36 7629	1218	21 21.8
23	13 27 19.81 2 23.98	8 7 58.3 14 25.6	0.36 6411	1231	21 20.2
24	13 29 43.79	8 22 23.9	0.36 5180		21 18.7

Tag	O <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1923					
Nov. 24	13 <sup>h</sup> 29 <sup>m</sup> 43.79 <sup>s</sup> 2 24.18	— 8° 22' 23.9" 14 22.3	0.36 5180	1245	21 <sup>h</sup> 18.7 <sup>m</sup>
25	13 32 7.97 2 24.39	8 36 46.2 14 18.9	0.36 3935	1258	21 17.1
26	13 34 32.36 2 24.61	8 51 5.1 14 15.4	0.36 2677	1271	21 15.6
27	13 36 56.97 2 24.83	9 5 20.5 14 11.8	0.36 1406	1285	21 14.1
28	13 39 21.80 2 25.06	9 19 32.3 14 8.1	0.36 0121	1299	21 12.5
29	13 41 46.86 2 25.29	9 33 40.4 14 4.3	0.35 8822	1312	21 11.0
30	13 44 12.15 2 25.52	— 9 47 44.7 14 0.5	0.35 7510	1326	21 9.5
Dez. 1	13 46 37.67 2 25.76	10 1 45.2 13 56.5	0.35 6184	1340	21 8.0
2	13 49 3.43 2 25.99	10 15 41.7 13 52.5	0.35 4844	1355	21 6.5
3	13 51 29.42 2 26.25	10 29 34.2 13 48.2	0.35 3489	1368	21 5.0
4	13 53 55.67 2 26.48	10 43 22.4 13 44.0	0.35 2121	1382	21 3.5
5	13 56 22.15 2 26.73	10 57 6.4 13 39.6	0.35 0739	1397	21 2.0
6	13 58 48.88 2 26.98	— 11 10 46.0 13 35.1	0.34 9342	1410	21 0.5
7	14 1 15.86 2 27.22	11 24 21.1 13 30.4	0.34 7932	1425	20 59.0
8	14 3 43.08 2 27.47	11 37 51.5 13 25.7	0.34 6507	1439	20 57.5
9	14 6 10.55 2 27.72	11 51 17.2 13 20.9	0.34 5068	1453	20 56.1
10	14 8 38.27 2 27.97	12 4 38.1 13 15.9	0.34 3615	1467	20 54.6
11	14 11 6.24 2 28.23	12 17 54.0 13 10.9	0.34 2148	1481	20 53.1
12	14 13 34.47 2 28.48	— 12 31 4.9 13 5.8	0.34 0667	1495	20 51.6
13	14 16 2.95 2 28.75	12 44 10.7 13 0.5	0.33 9172	1509	20 50.2
14	14 18 31.70 2 29.01	12 57 11.2 12 55.2	0.33 7663	1523	20 48.7
15	14 21 0.71 2 29.28	13 10 6.4 12 49.8	0.33 6140	1537	20 47.3
16	14 23 29.99 2 29.55	13 22 56.2 12 44.2	0.33 4603	1551	20 45.8
17	14 25 59.54 2 29.83	13 35 40.4 12 38.7	0.33 3052	1564	20 44.4
18	14 28 29.37 2 30.12	— 13 48 19.1 12 32.9	0.33 1488	1579	20 42.9
19	14 30 59.49 2 30.39	14 0 52.0 12 27.2	0.32 9909	1592	20 41.5
20	14 33 29.88 2 30.69	14 13 19.2 12 21.2	0.32 8317	1607	20 40.1
21	14 36 0.57 2 30.98	14 25 40.4 12 15.3	0.32 6710	1620	20 38.6
22	14 38 31.55 2 31.27	14 37 55.7 12 9.2	0.32 5090	1635	20 37.2
23	14 41 2.82 2 31.57	14 50 4.9 12 3.1	0.32 3455	1648	20 35.8
24	14 43 34.39 2 31.87	— 15 2 8.0 11 56.9	0.32 1807	1663	20 34.4
25	14 46 6.26 2 32.17	15 14 4.9 11 50.5	0.32 0144	1677	20 33.0
26	14 48 38.43 2 32.48	15 25 55.4 11 44.1	0.31 8467	1691	20 31.6
27	14 51 10.91 2 32.78	15 37 39.5 11 37.5	0.31 6776	1706	20 30.2
28	14 53 43.69 2 33.08	15 49 17.0 11 30.9	0.31 5070	1721	20 28.8
29	14 56 16.77 2 33.39	16 0 47.9 11 24.2	0.31 3349	1735	20 27.4
30	14 58 50.16 2 33.69	— 16 12 12.1 11 17.4	0.31 1614	1749	20 26.1
31	15 1 23.85 2 34.00	16 23 29.5 11 10.4	0.30 9865	1765	20 24.7
32	15 3 57.85	16 34 39.9	0.30 8100		20 23.3



Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Jan. 0	<sup>h</sup> 14 <sup>m</sup> 44 <sup>s</sup> 5.15 <sub>17.08</sub>	—14 44 50.0	0.77 2809	<sup>h</sup> 20 <sup>m</sup> 4.8
2	14 45 22.23 <sub>15.51</sub>	14 50 27.2	0.77 0802	19 58.2
4	14 46 37.74 <sub>13.89</sub>	14 55 54.8	0.76 8748	19 51.6
6	14 47 51.63 <sub>12.21</sub>	15 1 12.7	0.76 6649	19 45.0
8	14 49 3.84 <sub>10.47</sub>	15 6 20.8	0.76 4504	19 38.3
10	14 50 14.31 <sub>8.65</sub>	15 11 18.9	0.76 2316	19 31.6
12	14 51 22.96 <sub>6.77</sub>	—15 16 6.8	0.76 0084	19 24.8
14	14 52 29.73 <sub>4.82</sub>	15 20 44.4	0.75 7811	19 18.1
16	14 53 34.55 <sub>2.81</sub>	15 25 11.5	0.75 5497	19 11.2
18	14 54 37.36 <sub>0.72</sub>	15 29 28.0	0.75 3145	19 4.4
20	14 55 38.08 <sub>58.59</sub>	15 33 33.8	0.75 0757	18 57.6
22	14 56 36.67 <sub>56.41</sub>	15 37 28.8	0.74 8333	18 50.6
24	14 57 33.08 <sub>54.15</sub>	—15 41 12.8	0.74 5876	18 43.7
26	14 58 27.23 <sub>51.86</sub>	15 44 45.7	0.74 3388	18 36.7
28	14 59 19.09 <sub>49.50</sub>	15 48 7.5	0.74 0871	18 29.7
30	15 0 8.59 <sub>47.10</sub>	15 51 18.0	0.73 8326	18 22.6
Febr. 1	15 0 55.69 <sub>44.65</sub>	15 54 17.3	0.73 5756	18 15.6
3	15 1 40.34 <sub>42.13</sub>	15 57 5.1	0.73 3163	18 8.4
5	15 2 22.47 <sub>39.57</sub>	—15 59 41.5	0.73 0548	18 1.2
7	15 3 2.04 <sub>36.95</sub>	16 2 6.3	0.72 7914	17 54.0
9	15 3 38.99 <sub>34.26</sub>	16 4 19.4	0.72 5264	17 46.7
11	15 4 13.25 <sub>31.52</sub>	16 6 20.8	0.72 2599	17 39.4
13	15 4 44.77 <sub>28.73</sub>	16 8 10.3	0.71 9922	17 32.1
15	15 5 13.50 <sub>25.90</sub>	16 9 47.8	0.71 7238	17 24.7
17	15 5 39.40 <sub>23.03</sub>	—16 11 13.4	0.71 4548	17 17.2
19	15 6 2.43 <sub>20.14</sub>	16 12 26.8	0.71 1856	17 9.7
21	15 6 22.57 <sub>17.21</sub>	16 13 28.1	0.70 9165	17 2.1
23	15 6 39.78 <sub>14.26</sub>	16 14 17.3	0.70 6478	16 54.5
25	15 6 54.04 <sub>11.30</sub>	16 14 54.3	0.70 3800	16 46.9
27	15 7 5.34 <sub>8.31</sub>	16 15 19.2	0.70 1134	16 39.2
März 1	15 7 13.65 <sub>5.33</sub>	—16 15 32.0	0.69 8482	16 31.5
3	15 7 18.98 <sub>2.31</sub>	16 15 32.8	0.69 5848	16 23.7
5	15 7 21.29 <sub>0.69</sub>	16 15 21.4	0.69 3235	16 15.8
7	15 7 20.60 <sub>3.72</sub>	16 14 58.0	0.69 0648	16 8.0
9	15 7 16.88 <sub>6.75</sub>	16 14 22.6	0.68 8089	16 0.0
11	15 7 10.13 <sub>9.78</sub>	16 13 35.2	0.68 5563	15 52.0
13	15 7 0.35 <sub>12.78</sub>	—16 12 35.8	0.68 3075	15 44.0
15	15 6 47.57 <sub>15.77</sub>	16 11 24.4	0.68 0628	15 35.9
17	15 6 31.80 <sub>18.71</sub>	16 10 1.3	0.67 8226	15 27.7
19	15 6 13.09 <sub>21.61</sub>	16 8 26.6	0.67 5875	15 19.5
21	15 5 51.48 <sub>24.46</sub>	16 6 40.4	0.67 3579	15 11.3
23	15 5 27.02	16 4 42.8	0.67 1341	15 3.0

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
März 23	15 <sup>h</sup> 5 <sup>m</sup> 27.02 <sup>s</sup> <small>o 27.25</small>	—16° 4' 42.8" <small>2 8.6</small>	0.67 1341 <small>2176</small>	15 <sup>h</sup> 3 <sup>m</sup> 3.0
25	15 4 59.77 <small>o 29.97</small>	16 2 34.2 <small>2 19.3</small>	0.66 9165 <small>2108</small>	14 54.7
27	15 4 29.80 <small>o 32.60</small>	16 0 14.9 <small>2 29.8</small>	0.66 7057 <small>2037</small>	14 46.3
29	15 3 57.20 <small>o 35.18</small>	15 57 45.1 <small>2 40.1</small>	0.66 5020 <small>1962</small>	14 37.9
31	15 3 22.02 <small>o 37.65</small>	15 55 5.0 <small>2 50.0</small>	0.66 3058 <small>1884</small>	14 29.4
April 2	15 2 44.37 <small>o 40.05</small>	15 52 15.0 <small>2 59.6</small>	0.66 1174 <small>1803</small>	14 21.0
4	15 2 4.32 <small>o 42.35</small>	—15 49 15.4 <small>3 8.9</small>	0.65 9371 <small>1716</small>	14 12.4
6	15 1 21.97 <small>o 44.57</small>	15 46 6.5 <small>3 17.8</small>	0.65 7655 <small>1627</small>	14 3.8
8	15 0 37.40 <small>o 46.67</small>	15 42 48.7 <small>3 26.3</small>	0.65 6028 <small>1533</small>	13 55.2
10	14 59 50.73 <small>o 48.65</small>	15 39 22.4 <small>3 34.3</small>	0.65 4495 <small>1437</small>	13 46.6
12	14 59 2.08 <small>o 50.49</small>	15 35 48.1 <small>3 41.8</small>	0.65 3058 <small>1336</small>	13 37.9
14	14 58 11.59 <small>o 52.20</small>	15 32 6.3 <small>3 48.9</small>	0.65 1722 <small>1233</small>	13 29.2
16	14 57 19.39 <small>o 53.76</small>	—15 28 17.4 <small>3 55.3</small>	0.65 0489 <small>1126</small>	13 20.5
18	14 56 25.63 <small>o 55.17</small>	15 24 22.1 <small>4 1.2</small>	0.64 9363 <small>1017</small>	13 11.7
20	14 55 30.46 <small>o 56.41</small>	15 20 20.9 <small>4 6.4</small>	0.64 8346 <small>906</small>	13 2.9
22	14 54 34.05 <small>o 57.49</small>	15 16 14.5 <small>4 10.8</small>	0.64 7440 <small>792</small>	12 54.1
24	14 53 36.56 <small>o 58.41</small>	15 12 3.7 <small>4 14.8</small>	0.64 6648 <small>678</small>	12 45.3
26	14 52 38.15 <small>o 59.16</small>	15 7 48.9 <small>4 17.9</small>	0.64 5970 <small>562</small>	12 36.4
28	14 51 38.99 <small>o 59.77</small>	—15 3 31.0 <small>4 20.3</small>	0.64 5408 <small>445</small>	12 27.6
30	14 50 39.22 <small>1 0.20</small>	14 59 10.7 <small>4 22.0</small>	0.64 4963 <small>327</small>	12 18.8
Mai 2	14 49 39.02 <small>1 0.47</small>	14 54 48.7 <small>4 23.1</small>	0.64 4636 <small>210</small>	12 9.9
4	14 48 38.55 <small>1 0.58</small>	14 50 25.6 <small>4 23.5</small>	0.64 4426 <small>91</small>	12 1.0
6	14 47 37.97 <small>1 0.55</small>	14 46 2.1 <small>4 23.1</small>	0.64 4335 <small>28</small>	11 52.2
8	14 46 37.42 <small>1 0.33</small>	14 41 39.0 <small>4 22.0</small>	0.64 4363 <small>147</small>	11 43.3
10	14 45 37.09 <small>o 59.95</small>	—14 37 17.0 <small>4 20.1</small>	0.64 4510 <small>266</small>	11 34.4
12	14 44 37.14 <small>o 59.39</small>	14 32 56.9 <small>4 17.5</small>	0.64 4776 <small>383</small>	11 25.6
14	14 43 37.75 <small>o 58.67</small>	14 28 39.4 <small>4 14.0</small>	0.64 5159 <small>499</small>	11 16.7
16	14 42 39.08 <small>o 57.78</small>	14 24 25.4 <small>4 9.7</small>	0.64 5658 <small>615</small>	11 7.9
18	14 41 41.30 <small>o 56.72</small>	14 20 15.7 <small>4 4.7</small>	0.64 6273 <small>728</small>	10 59.1
20	14 40 44.58 <small>o 55.51</small>	14 16 11.0 <small>3 59.0</small>	0.64 7001 <small>838</small>	10 50.3
22	14 39 49.07 <small>o 54.17</small>	—14 12 12.0 <small>3 52.5</small>	0.64 7839 <small>947</small>	10 41.5
24	14 38 54.90 <small>o 52.67</small>	14 8 19.5 <small>3 45.3</small>	0.64 8786 <small>1052</small>	10 32.7
26	14 38 2.23 <small>o 51.06</small>	14 4 34.2 <small>3 37.6</small>	0.64 9838 <small>1155</small>	10 24.0
28	14 37 11.17 <small>o 49.34</small>	14 0 56.6 <small>3 29.1</small>	0.65 0993 <small>1254</small>	10 15.3
30	14 36 21.83 <small>o 47.50</small>	13 57 27.5 <small>3 20.2</small>	0.65 2247 <small>1350</small>	10 6.6
Juni 1	14 35 34.33 <small>o 45.56</small>	13 54 7.3 <small>3 10.8</small>	0.65 3597 <small>1443</small>	9 58.0
3	14 34 48.77 <small>o 43.52</small>	—13 50 56.5 <small>3 0.8</small>	0.65 5040 <small>1534</small>	9 49.4
5	14 34 5.25 <small>o 41.38</small>	13 47 55.7 <small>2 50.2</small>	0.65 6574 <small>1621</small>	9 40.8
7	14 33 23.87 <small>o 39.13</small>	13 45 5.5 <small>2 39.3</small>	0.65 8195 <small>1704</small>	9 32.3
9	14 32 44.74 <small>o 36.79</small>	13 42 26.2 <small>2 27.7</small>	0.65 9899 <small>1784</small>	9 23.8
11	14 32 7.95 <small>o 34.38</small>	13 39 58.5 <small>2 15.9</small>	0.66 1683 <small>1859</small>	9 15.3
13	14 31 33.57	13 37 42.6	0.66 3542	9 6.9

# Jupiter 1923

93

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich			
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ				
1923							
Juni	13	14 31 33.57 <small>h m s</small>	0 31.89 <small>m s</small>	—13 37 42.6 <small>z 3.6</small>	0.66 3542 <small>1932</small>	9 6.9 <small>h m</small>	
	15	14 31 1.68	0 29.33	13 35 39.0 <small>1 51.0</small>	0.66 5474 <small>1999</small>	8 58.5	
	17	14 30 32.35	0 26.71	13 33 48.0 <small>1 38.1</small>	0.66 7473 <small>2063</small>	8 50.1	
	19	14 30 5.64	0 24.04	13 32 9.9 <small>1 24.9</small>	0.66 9536 <small>2122</small>	8 41.8	
	21	14 29 41.60	0 21.33	13 30 45.0 <small>1 11.5</small>	0.67 1658 <small>2177</small>	8 33.6	
	23	14 29 20.27	0 18.61	13 29 33.5 <small>0 58.0</small>	0.67 3835 <small>2227</small>	8 25.4	
	25	14 29 1.66	0 15.84	—13 28 35.5 <small>0 44.4</small>	0.67 6062 <small>2275</small>	8 17.2	
	27	14 28 45.82	0 13.08	13 27 51.1 <small>0 30.6</small>	0.67 8337 <small>2318</small>	8 9.1	
	29	14 28 32.74	0 10.30	13 27 20.5 <small>0 16.8</small>	0.68 0655 <small>2357</small>	8 1.0	
	Juli	1	14 28 22.44	0 7.50	13 27 3.7 <small>0 3.0</small>	0.68 3012 <small>2393</small>	7 53.0
		3	14 28 14.94	0 4.70	13 27 0.7 <small>0 10.7</small>	0.68 5405 <small>2426</small>	7 45.0
		5	14 28 10.24	0 1.88	13 27 11.4 <small>0 24.6</small>	0.68 7831 <small>2455</small>	7 37.1
		7	14 28 8.36	0 0.93	—13 27 36.0 <small>0 38.4</small>	0.69 0286 <small>2480</small>	7 29.2
		9	14 28 9.29	0 3.76	13 28 14.4 <small>0 52.1</small>	0.69 2766 <small>2502</small>	7 21.4
		11	14 28 13.05	0 6.57	13 29 6.5 <small>1 5.8</small>	0.69 5268 <small>2520</small>	7 13.6
		13	14 28 19.62	0 9.38	13 30 12.3 <small>1 19.4</small>	0.69 7788 <small>2535</small>	7 5.8
		15	14 28 29.00	0 12.17	13 31 31.7 <small>1 32.9</small>	0.70 0323 <small>2546</small>	6 58.1
17		14 28 41.17	0 14.95	13 33 4.6 <small>1 46.3</small>	0.70 2869 <small>2554</small>	6 50.5	
19		14 28 56.12	0 17.69	—13 34 50.9 <small>1 59.2</small>	0.70 5423 <small>2559</small>	6 42.8	
21		14 29 13.81	0 20.40	13 36 50.1 <small>2 12.2</small>	0.70 7982 <small>2561</small>	6 35.3	
23		14 29 34.21	0 23.08	13 39 2.3 <small>2 24.7</small>	0.71 0543 <small>2559</small>	6 27.8	
25		14 29 57.29	0 25.71	13 41 27.0 <small>2 37.1</small>	0.71 3102 <small>2555</small>	6 20.3	
27		14 30 23.00	0 28.31	13 44 4.1 <small>2 49.2</small>	0.71 5657 <small>2550</small>	6 12.9	
29		14 30 51.31	0 30.89	13 46 53.3 <small>3 1.1</small>	0.71 8207 <small>2541</small>	6 5.5	
31		14 31 22.20	0 33.43	—13 49 54.4 <small>3 12.7</small>	0.72 0748 <small>2530</small>	5 58.1	
Aug.		2	14 31 55.63	0 35.94	13 53 7.1 <small>3 24.0</small>	0.72 3278 <small>2517</small>	5 50.8
	4	14 32 31.57	0 38.42	13 56 31.1 <small>3 35.1</small>	0.72 5795 <small>2502</small>	5 43.6	
	6	14 33 9.99	0 40.86	14 0 6.2 <small>3 45.9</small>	0.72 8297 <small>2484</small>	5 36.3	
	8	14 33 50.85	0 43.27	14 3 52.1 <small>3 56.3</small>	0.73 0781 <small>2465</small>	5 29.2	
	10	14 34 34.12	0 45.65	14 7 48.4 <small>4 6.6</small>	0.73 3246 <small>2443</small>	5 22.0	
	12	14 35 19.77	0 47.99	—14 11 55.0 <small>4 16.5</small>	0.73 5689 <small>2419</small>	5 14.9	
	14	14 36 7.76	0 50.28	14 16 11.5 <small>4 26.2</small>	0.73 8108 <small>2393</small>	5 7.8	
	16	14 36 58.04	0 52.51	14 20 37.7 <small>4 35.3</small>	0.74 0501 <small>2365</small>	5 0.8	
	18	14 37 50.55	0 54.71	14 25 13.0 <small>4 44.3</small>	0.74 2866 <small>2335</small>	4 53.8	
	20	14 38 45.26	0 56.84	14 29 57.3 <small>4 52.7</small>	0.74 5201 <small>2304</small>	4 46.9	
	22	14 39 42.10	0 58.95	14 34 50.0 <small>5 1.0</small>	0.74 7505 <small>2272</small>	4 40.0	
	24	14 40 41.05	1 0.99	—14 39 51.0 <small>5 8.8</small>	0.74 9777 <small>2238</small>	4 33.1	
	26	14 41 42.04	1 3.00	14 44 59.8 <small>5 16.3</small>	0.75 2015 <small>2203</small>	4 26.2	
	28	14 42 45.04	1 4.96	14 50 16.1 <small>5 23.4</small>	0.75 4218 <small>2167</small>	4 19.4	
	30	14 43 50.00	1 6.90	14 55 39.5 <small>5 30.3</small>	0.75 6385 <small>2129</small>	4 12.6	
	Sept.	1	14 44 56.90	1 8.80	15 1 9.8 <small>5 36.8</small>	0.75 8514 <small>2091</small>	4 5.9
		3	14 46 5.70		15 6 46.6	0.76 0605	3 59.1



Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Sept. 3	14 <sup>h</sup> 46 <sup>m</sup> 5.70 <sup>s</sup> 10.65	—15° 6' 46.6" 5 43.1	0.76 0605 2052	3 <sup>h</sup> 59.1 <sup>m</sup>
5	14 47 16.35 12.46	15 12 29.7 5 48.9	0.76 2657 2010	3 52.5
7	14 48 28.81 14.25	15 18 18.6 5 54.6	0.76 4667 1969	3 45.8
9	14 49 43.06 15.98	15 24 13.2 5 59.8	0.76 6636 1925	3 39.2
11	14 50 59.04 17.67	15 30 13.0 6 4.8	0.76 8561 1880	3 32.6
13	14 52 16.71 19.31	15 36 17.8 6 9.3	0.77 0441 1835	3 26.0
15	14 53 36.02 20.90	—15 42 27.1 6 13.6	0.77 2276 1789	3 19.5
17	14 54 56.92 22.45	15 48 40.7 6 17.4	0.77 4065 1741	3 12.9
19	14 56 19.37 23.94	15 54 58.1 6 20.9	0.77 5806 1694	3 6.4
21	14 57 43.31 25.39	16 1 19.0 6 24.1	0.77 7500 1646	3 0.0
23	14 59 8.70 26.81	16 7 43.1 6 27.1	0.77 9146 1596	2 53.5
25	15 0 35.51 28.19	16 14 10.2 6 29.7	0.78 0742 1547	2 47.1
27	15 2 3.70 29.54	—16 20 39.9 6 31.9	0.78 2289 1498	2 40.7
29	15 3 33.24 30.84	16 27 11.8 6 34.0	0.78 3787 1447	2 34.3
Okt. 1	15 5 4.08 32.11	16 33 45.8 6 35.7	0.78 5234 1395	2 28.0
3	15 6 36.19 33.34	16 40 21.5 6 37.1	0.78 6629 1344	2 21.6
5	15 8 9.53 34.55	16 46 58.6 6 38.3	0.78 7973 1291	2 15.3
7	15 9 44.08 35.69	16 53 36.9 6 39.2	0.78 9264 1238	2 9.0
9	15 11 19.77 36.81	—17 0 16.1 6 39.8	0.79 0502 1184	2 2.7
11	15 12 56.58 37.87	17 6 55.9 6 40.0	0.79 1686 1129	1 56.5
13	15 14 34.45 38.89	17 13 35.9 6 40.0	0.79 2815 1075	1 50.2
15	15 16 13.34 39.86	17 20 15.9 6 39.8	0.79 3890 1019	1 44.0
17	15 17 53.20 40.78	17 26 55.7 6 39.2	0.79 4909 964	1 37.8
19	15 19 33.98 41.67	17 33 34.9 6 38.3	0.79 5873 908	1 31.6
21	15 21 15.65 42.52	—17 40 13.2 6 37.2	0.79 6781 852	1 25.4
23	15 22 58.17 43.33	17 46 50.4 6 35.8	0.79 7633 796	1 19.3
25	15 24 41.50 44.10	17 53 26.2 6 34.2	0.79 8429 740	1 13.1
27	15 26 25.60 44.84	18 0 0.4 6 32.2	0.79 9169 683	1 7.0
29	15 28 10.44 45.55	18 6 32.6 6 30.3	0.79 9852 626	1 0.9
31	15 29 55.99 46.21	18 13 2.9 6 28.0	0.80 0478 569	0 54.8
Nov. 2	15 31 42.20 46.83	—18 19 30.9 6 25.5	0.80 1047 511	0 48.7
4	15 33 29.03 47.42	18 25 56.4 6 22.8	0.80 1558 453	0 42.6
6	15 35 16.45 47.96	18 32 19.2 6 19.9	0.80 2011 394	0 36.5
8	15 37 4.41 48.45	18 38 39.1 6 16.7	0.80 2405 335	0 30.4
10	15 38 52.86 48.89	18 44 55.8 6 13.4	0.80 2740 276	0 24.4
12	15 40 41.75 49.27	18 51 9.2 6 9.7	0.80 3016 217	0 18.3
14	15 42 31.02 49.63	—18 57 18.9 6 5.8	0.80 3233 158	0 12.2
16	15 44 20.65 49.92	19 3 24.7 6 1.9	0.80 3391 99	0 6.2
18	15 46 10.57 50.18	19 9 26.6 5 57.6	0.80 3490 39	0 0.3
20	15 48 0.75 50.41	19 15 24.2 5 53.3	0.80 3529 19	23 51.1
22	15 49 51.16 50.58	19 21 17.5 5 48.7	0.80 3510 78	23 45.1
24	15 51 41.74	19 27 6.2	0.80 3432	23 39.1

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log $\Delta$	
1923				
Nov. 24	15 <sup>h</sup> 51 <sup>m</sup> 41.74 <sup>s</sup> 1 50.72	-19° 27' 6.2"    5 44.1"	0.80 3432	23 <sup>h</sup> 39.1 <sup>m</sup>
26	15 53 32.46    1 50.83	19 32 50.3    5 39.3	0.80 3294	23 33.0
28	15 55 23.29    1 50.87	19 38 29.6    5 34.3	0.80 3097	23 27.0
30	15 57 14.16    1 50.90	19 44 3.9    5 29.3	0.80 2841	23 21.0
Dez. 2	15 59 5.06    1 50.85	19 49 33.2    5 24.0	0.80 2525	23 15.0
4	16 0 55.91    1 50.77	19 54 57.2    5 18.7	0.80 2150	23 8.9
6	16 2 46.68    1 50.63	-20 0 15.9    5 13.2	0.80 1714	23 2.9
8	16 4 37.31    1 50.44	20 5 29.1    5 7.6	0.80 1218	22 56.9
10	16 6 27.75    1 50.19	20 10 36.7    5 1.8	0.80 0663	22 50.8
12	16 8 17.94    1 49.88	20 15 38.5    4 56.0	0.80 0047	22 44.8
14	16 10 7.82    1 49.53	20 20 34.5    4 50.0	0.79 9372	22 38.7
16	16 11 57.35    1 49.13	20 25 24.5    4 44.0	0.79 8638	22 32.7
18	16 13 46.48    1 48.68	-20 30 8.5    4 37.9	0.79 7844	22 26.6
20	16 15 35.16    1 48.19	20 34 46.4    4 31.6	0.79 6992	22 20.5
22	16 17 23.35    1 47.65	20 39 18.0    4 25.4	0.79 6082	22 14.5
24	16 19 11.00    1 47.06	20 43 43.4    4 19.2	0.79 5113	22 8.4
26	16 20 58.06    1 46.42	20 48 2.6    4 12.9	0.79 4087	22 2.3
28	16 22 44.48    1 45.74	20 52 15.5    4 6.5	0.79 3002	21 56.2
30	16 24 30.22    1 44.99	-20 56 22.0    4 0.2	0.79 1859	21 50.1
32	16 26 15.21	21 0 22.2	0.79 0659	21 44.0

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Jan. 0	13 15 <sup>h</sup> 8.32 <sup>m</sup> 22.66	−5 20 5.8 1 43.5	0.98 9048 1463	18 <sup>h</sup> 35.7 <sup>m</sup>
2	13 15 30.98 21.24	5 21 49.3 1 34.4	0.98 7585 1475	18 28.2
4	13 15 52.22 19.77	5 23 23.7 1 25.2	0.98 6110 1486	18 20.7
6	13 16 11.99 18.30	5 24 48.9 1 15.8	0.98 4624 1495	18 13.1
8	13 16 30.29 16.80	5 26 4.7 1 6.4	0.98 3129 1502	18 5.6
10	13 16 47.09 15.28	5 27 11.1 0 56.9	0.98 1627 1509	17 58.0
12	13 17 2.37 13.75	−5 28 8.0 0 47.3	0.98 0118 1513	17 50.4
14	13 17 16.12 12.18	5 28 55.3 0 37.7	0.97 8605 1515	17 42.7
16	13 17 28.30 10.61	5 29 33.0 0 28.0	0.97 7090 1516	17 35.1
18	13 17 38.91 9.03	5 30 1.0 0 18.3	0.97 5574 1514	17 27.4
20	13 17 47.94 7.43	5 30 19.3 0 8.6	0.97 4060 1510	17 19.6
22	13 17 55.37 5.83	5 30 27.9 0 1.0	0.97 2550 1504	17 11.9
24	13 18 1.20 4.24	−5 30 26.9 0 10.6	0.97 1046 1497	17 4.1
26	13 18 5.44 2.65	5 30 16.3 0 20.2	0.96 9549 1487	16 56.3
28	13 18 8.09 1.05	5 29 56.1 0 29.6	0.96 8062 1476	16 48.5
30	13 18 9.14 0.53	5 29 26.5 0 39.1	0.96 6586 1462	16 40.6
Febr. 1	13 18 8.61 2.12	5 28 47.4 0 48.4	0.96 5124 1446	16 32.8
3	13 18 6.49 3.70	5 27 59.0 0 57.7	0.96 3678 1429	16 24.8
5	13 18 2.79 5.27	−5 27 1.3 1 6.9	0.96 2249 1410	16 16.9
7	13 17 57.52 6.84	5 25 54.4 1 16.0	0.96 0839 1388	16 9.0
9	13 17 50.68 8.38	5 24 38.4 1 24.9	0.95 9451 1364	16 1.0
11	13 17 42.30 9.93	5 23 13.5 1 33.7	0.95 8087 1339	15 52.9
13	13 17 32.37 11.44	5 21 39.8 1 42.3	0.95 6748 1310	15 44.9
15	13 17 20.93 12.93	5 19 57.5 1 50.8	0.95 5438 1280	15 36.9
17	13 17 8.00 14.39	−5 18 6.7 1 59.0	0.95 4158 1248	15 28.8
19	13 16 53.61 15.82	5 16 7.7 2 7.0	0.95 2910 1213	15 20.7
21	13 16 37.79 17.22	5 14 0.7 2 14.6	0.95 1697 1176	15 12.5
23	13 16 20.57 18.56	5 11 46.1 2 22.1	0.95 0521 1138	15 4.3
25	13 16 2.01 19.87	5 9 24.0 2 29.2	0.94 9383 1098	14 56.2
27	13 15 42.14 21.13	5 6 54.8 2 36.1	0.94 8285 1055	14 48.0
März 1	13 15 21.01 22.36	−5 4 18.7 2 42.6	0.94 7230 1012	14 39.8
3	13 14 58.65 23.54	5 1 36.1 2 48.8	0.94 6218 967	14 31.5
5	13 14 35.11 24.67	4 58 47.3 2 54.8	0.94 5251 919	14 23.3
7	13 14 10.44 25.76	4 55 52.5 3 0.4	0.94 4332 871	14 15.0
9	13 13 44.68 26.78	4 52 52.1 3 5.7	0.94 3461 821	14 6.7
11	13 13 17.90 27.77	4 49 46.4 3 10.5	0.94 2640 768	13 58.4
13	13 12 50.13 28.69	−4 46 35.9 3 14.9	0.94 1872 715	13 50.1
15	13 12 21.44 29.54	4 43 21.0 3 19.1	0.94 1157 661	13 41.7
17	13 11 51.90 30.33	4 40 1.9 3 22.6	0.94 0496 604	13 33.3
19	13 11 21.57 31.05	4 36 39.3 3 25.9	0.93 9892 547	13 25.0
21	13 10 50.52 31.69	4 33 13.4 3 28.6	0.93 9345 489	13 16.6
23	13 10 18.83	4 29 44.8	0.93 8856	13 8.2



Tag	O <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1923					
März 23	13 <sup>h</sup> 10 <sup>m</sup> 18.83 <sup>s</sup> <small>32.27</small>	-4° 29' 44.8" <small>3 30.9</small>	0.93 8856 <small>430</small>	13 <sup>h</sup> 8.2 <sup>m</sup>	
25	13 9 46.56 <small>32.76</small>	4 26 13.9 <small>3 32.6</small>	0.93 8426 <small>370</small>	12 59.8	
27	13 9 13.80 <small>33.20</small>	4 22 41.3 <small>3 34.1</small>	0.93 8056 <small>310</small>	12 51.4	
29	13 8 40.60 <small>33.56</small>	4 19 7.2 <small>3 34.9</small>	0.93 7746 <small>249</small>	12 43.0	
31	13 8 7.04 <small>33.84</small>	4 15 32.3 <small>3 35.5</small>	0.93 7497 <small>189</small>	12 34.6	
April 2	13 7 33.20 <small>34.07</small>	4 11 56.8 <small>3 35.4</small>	0.93 7308 <small>128</small>	12 26.1	
4	13 6 59.13 <small>34.22</small>	-4 8 21.4 <small>3 35.0</small>	0.93 7180 <small>66</small>	12 17.7	
6	13 6 24.91 <small>34.30</small>	4 4 46.4 <small>3 34.2</small>	0.93 7114 <small>4</small>	12 9.3	
8	13 5 50.61 <small>34.31</small>	4 1 12.2 <small>3 32.9</small>	0.93 7110 <small>57</small>	12 0.8	
10	13 5 16.30 <small>34.25</small>	3 57 39.3 <small>3 31.2</small>	0.93 7167 <small>119</small>	11 52.4	
12	13 4 42.05 <small>34.10</small>	3 54 8.1 <small>3 28.9</small>	0.93 7286 <small>180</small>	11 44.0	
14	13 4 7.95 <small>33.88</small>	3 50 39.2 <small>3 26.2</small>	0.93 7466 <small>241</small>	11 35.6	
16	13 3 34.07 <small>33.59</small>	-3 47 13.0 <small>3 23.1</small>	0.93 7707 <small>302</small>	11 27.1	
18	13 3 0.48 <small>33.22</small>	3 43 49.9 <small>3 19.5</small>	0.93 8009 <small>362</small>	11 18.7	
20	13 2 27.26 <small>32.79</small>	3 40 30.4 <small>3 15.4</small>	0.93 8371 <small>420</small>	11 10.3	
22	13 1 54.47 <small>32.27</small>	3 37 15.0 <small>3 11.1</small>	0.93 8791 <small>479</small>	11 1.9	
24	13 1 22.20 <small>31.70</small>	3 34 3.9 <small>3 6.2</small>	0.93 9270 <small>536</small>	10 53.5	
26	13 0 50.50 <small>31.05</small>	3 30 57.7 <small>3 1.0</small>	0.93 9806 <small>591</small>	10 45.1	
28	13 0 19.45 <small>30.36</small>	-3 27 56.7 <small>2 55.5</small>	0.94 0397 <small>646</small>	10 36.7	
30	12 59 49.09 <small>29.60</small>	3 25 1.2 <small>2 49.5</small>	0.94 1043 <small>699</small>	10 28.4	
Mai 2	12 59 19.49 <small>28.80</small>	3 22 11.7 <small>2 43.3</small>	0.94 1742 <small>751</small>	10 20.0	
4	12 58 50.69 <small>27.95</small>	3 19 28.4 <small>2 36.9</small>	0.94 2493 <small>802</small>	10 11.7	
6	12 58 22.74 <small>27.03</small>	3 16 51.5 <small>2 30.1</small>	0.94 3295 <small>851</small>	10 3.3	
8	12 57 55.71 <small>26.07</small>	3 14 21.4 <small>2 23.0</small>	0.94 4146 <small>899</small>	9 55.0	
10	12 57 29.64 <small>25.04</small>	-3 11 58.4 <small>2 15.5</small>	0.94 5045 <small>947</small>	9 46.7	
12	12 57 4.60 <small>23.96</small>	3 9 42.9 <small>2 7.8</small>	0.94 5992 <small>991</small>	9 38.5	
14	12 56 40.64 <small>22.84</small>	3 7 35.1 <small>1 59.9</small>	0.94 6983 <small>1034</small>	9 30.2	
16	12 56 17.80 <small>21.69</small>	3 5 35.2 <small>1 51.7</small>	0.94 8017 <small>1075</small>	9 22.0	
18	12 55 56.11 <small>20.48</small>	3 3 43.5 <small>1 43.3</small>	0.94 9092 <small>1115</small>	9 13.8	
20	12 55 35.63 <small>19.24</small>	3 2 0.2 <small>1 34.7</small>	0.95 0207 <small>1152</small>	9 5.6	
22	12 55 16.39 <small>17.97</small>	-3 0 25.5 <small>1 25.9</small>	0.95 1359 <small>1188</small>	8 57.4	
24	12 54 58.42 <small>16.67</small>	2 58 59.6 <small>1 17.1</small>	0.95 2547 <small>1222</small>	8 49.2	
26	12 54 41.75 <small>15.33</small>	2 57 42.5 <small>1 8.1</small>	0.95 3769 <small>1253</small>	8 41.1	
28	12 54 26.42 <small>13.99</small>	2 56 34.4 <small>0 58.9</small>	0.95 5022 <small>1282</small>	8 33.0	
30	12 54 12.43 <small>12.63</small>	2 55 35.5 <small>0 49.8</small>	0.95 6304 <small>1310</small>	8 24.9	
Juni 1	12 53 59.80 <small>11.23</small>	2 54 45.7 <small>0 40.4</small>	0.95 7614 <small>1337</small>	8 16.8	
3	12 53 48.57 <small>9.84</small>	-2 54 5.3 <small>0 31.2</small>	0.95 8951 <small>1361</small>	8 8.8	
5	12 53 38.73 <small>8.41</small>	2 53 34.1 <small>0 21.7</small>	0.96 0312 <small>1383</small>	8 0.7	
7	12 53 30.32 <small>6.97</small>	2 53 12.4 <small>0 12.2</small>	0.96 1695 <small>1405</small>	7 52.7	
9	12 53 23.35 <small>5.51</small>	2 53 0.2 <small>0 2.8</small>	0.96 3100 <small>1423</small>	7 44.8	
11	12 53 17.84 <small>4.05</small>	2 52 57.4 <small>0 6.8</small>	0.96 4523 <small>1439</small>	7 36.8	
13	12 53 13.79	2 53 4.2	0.96 5962	7 28.9	

Tag	O <sup>h</sup> mittlere Zeit Greenwich						log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension			Scheinbare Deklination				
1923								
Juni	13	12 <sup>h</sup> 53 <sup>m</sup> 13.79	2.57	−2° 53′ 4.2″	0 16.3	0.96 5962	1455	7 <sup>h</sup> 28.9 <sup>m</sup>
	15	12 53 11.22	1.09	2 53 20.5	0 25.8	0.96 7417	1467	7 21.0
	17	12 53 10.13	0.39	2 53 46.3	0 35.4	0.96 8884	1478	7 13.1
	19	12 53 10.52	1.88	2 54 21.7	0 44.9	0.97 0362	1488	7 5.3
	21	12 53 12.40	3.36	2 55 6.6	0 54.1	0.97 1850	1494	6 57.4
	23	12 53 15.76	4.83	2 56 0.7	1 3.6	0.97 3344	1500	6 49.6
	25	12 53 20.59	6.30	−2 57 4.3	1 12.7	0.97 4844	1504	6 41.8
	27	12 53 26.89	7.75	2 58 17.0	1 21.9	0.97 6348	1505	6 34.1
	29	12 53 34.64	9.19	2 59 38.9	1 30.8	0.97 7853	1507	6 26.4
Juli	1	12 53 43.83	10.64	3 1 9.7	1 39.8	0.97 9360	1505	6 18.7
	3	12 53 54.47	12.06	3 2 49.5	1 48.6	0.98 0865	1503	6 11.0
	5	12 54 6.53	13.49	3 4 38.1	1 57.4	0.98 2368	1499	6 3.3
	7	12 54 20.02	14.90	−3 6 35.5	2 6.0	0.98 3867	1494	5 55.7
	9	12 54 34.92	16.30	3 8 41.5	2 14.5	0.98 5361	1487	5 48.1
	11	12 54 51.22	17.68	3 10 56.0	2 22.8	0.98 6848	1478	5 40.5
	13	12 55 8.90	19.06	3 13 18.8	2 31.2	0.98 8326	1468	5 32.9
	15	12 55 27.96	20.41	3 15 50.0	2 39.2	0.98 9794	1457	5 25.4
	17	12 55 48.37	21.75	3 18 29.2	2 47.1	0.99 1251	1444	5 17.8
	19	12 56 10.12	23.06	−3 21 16.3	2 54.9	0.99 2695	1430	5 10.3
	21	12 56 33.18	24.34	3 24 11.2	3 2.5	0.99 4125	1414	5 2.9
	23	12 56 57.52	25.60	3 27 13.7	3 9.8	0.99 5539	1397	4 55.4
	25	12 57 23.12	26.84	3 30 23.5	3 17.0	0.99 6936	1379	4 48.0
	27	12 57 49.96	28.05	3 33 40.5	3 24.0	0.99 8315	1361	4 40.5
	29	12 58 18.01	29.25	3 37 4.5	3 30.8	0.99 9676	1342	4 33.1
	31	12 58 47.26	30.42	−3 40 35.3	3 37.6	1.00 1018	1320	4 25.8
Aug.	2	12 59 17.68	31.58	3 44 12.9	3 44.0	1.00 2338	1298	4 18.4
	4	12 59 49.26	32.70	3 47 56.9	3 50.4	1.00 3636	1276	4 11.1
	6	13 0 21.96	33.82	3 51 47.3	3 56.6	1.00 4912	1252	4 3.8
	8	13 0 55.78	34.91	3 55 43.9	4 2.5	1.00 6164	1228	3 56.5
	10	13 1 30.69	35.97	3 59 46.4	4 8.3	1.00 7392	1201	3 49.2
	12	13 2 6.66	36.99	−4 3 54.7	4 13.9	1.00 8593	1174	3 41.9
	14	13 2 43.65	38.01	4 8 8.6	4 19.3	1.00 9767	1147	3 34.6
	16	13 3 21.66	38.98	4 12 27.9	4 24.4	1.01 0914	1118	3 27.4
	18	13 4 0.64	39.92	4 16 52.3	4 29.4	1.01 2032	1089	3 20.2
	20	13 4 40.56	40.84	4 21 21.7	4 34.0	1.01 3121	1058	3 13.0
	22	13 5 21.40	41.72	4 25 55.7	4 38.6	1.01 4179	1028	3 5.8
	24	13 6 3.12	42.58	−4 30 34.3	4 42.9	1.01 5207	996	2 58.6
	26	13 6 45.70	43.41	4 35 17.2	4 47.0	1.01 6203	965	2 51.5
	28	13 7 29.11	44.22	4 40 4.2	4 50.9	1.01 7168	932	2 44.3
	30	13 8 13.33	45.00	4 44 55.1	4 54.7	1.01 8100	900	2 37.2
Sept.	1	13 8 58.33	45.75	4 49 49.8	4 58.2	1.01 9000	866	2 30.1
	3	13 9 44.08		4 54 48.0		1.01 9866		2 23.0

Tag	O <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1923					
Sept. 3	13 <sup>h</sup> 9 <sup>m</sup> 44.08 46.48	-4° 54' 48.0 5 1.6		1.01 9866 831	2 <sup>h</sup> 23.0 2 23.0
5	13 10 30.56 47.18	4 59 49.6 5 4.7		1.02 0697 796	2 15.9 2 15.9
7	13 11 17.74 47.86	5 4 54.3 5 7.7		1.02 1493 761	2 8.8 2 8.8
9	13 12 5.60 48.49	5 10 2.0 5 10.3		1.02 2254 725	2 1.8 2 1.8
11	13 12 54.09 49.11	5 15 12.3 5 12.9		1.02 2979 689	1 54.7 1 54.7
13	13 13 43.20 49.68	5 20 25.2 5 15.2		1.02 3668 651	1 47.6 1 47.6
15	13 14 32.88 50.23	-5 25 40.4 5 17.3		1.02 4319 613	1 40.6 1 40.6
17	13 15 23.11 50.73	5 30 57.7 5 19.0		1.02 4932 575	1 33.6 1 33.6
19	13 16 13.84 51.21	5 36 16.7 5 20.6		1.02 5507 538	1 26.6 1 26.6
21	13 17 5.05 51.67	5 41 37.3 5 22.1		1.02 6045 500	1 19.5 1 19.5
23	13 17 56.72 52.08	5 46 59.4 5 23.3		1.02 6545 460	1 12.5 1 12.5
25	13 18 48.80 52.48	5 52 22.7 5 24.4		1.02 7005 422	1 5.5 1 5.5
27	13 19 41.28 52.84	-5 57 47.1 5 25.2		1.02 7427 383	0 58.5 0 58.5
29	13 20 34.12 53.17	6 3 12.3 5 25.8		1.02 7810 343	0 51.6 0 51.6
Okt. 1	13 21 27.29 53.49	6 8 38.1 5 26.3		1.02 8153 304	0 44.6 0 44.6
3	13 22 20.78 53.76	6 14 4.4 5 26.5		1.02 8457 264	0 37.6 0 37.6
5	13 23 14.54 54.01	6 19 30.9 5 26.6		1.02 8721 223	0 30.6 0 30.6
7	13 24 8.55 54.22	6 24 57.5 5 26.3		1.02 8944 182	0 23.7 0 23.7
9	13 25 2.77 54.40	-6 30 23.8 5 26.0		1.02 9126 142	0 16.7 0 16.7
11	13 25 57.17 54.53	6 35 49.8 5 25.4		1.02 9268 101	0 9.7 0 9.7
13	13 26 51.70 54.64	6 41 15.2 5 24.6		1.02 9369 60	0 2.8 0 2.8
15	13 27 46.34 54.71	6 46 39.8 5 23.4		1.02 9429 18	23 52.3 23 52.3
17	13 28 41.05 54.75	6 52 3.2 5 22.3		1.02 9447 22	23 45.4 23 45.4
19	13 29 35.80 54.75	6 57 25.5 5 20.7		1.02 9425 64	23 38.4 23 38.4
21	13 30 30.55 54.72	-7 2 46.2 5 19.2		1.02 9361 104	23 31.5 23 31.5
23	13 31 25.27 54.67	7 8 5.4 5 17.2		1.02 9257 145	23 24.5 23 24.5
25	13 32 19.94 54.58	7 13 22.6 5 15.3		1.02 9112 186	23 17.6 23 17.6
27	13 33 14.52 54.46	7 18 37.9 5 13.0		1.02 8926 227	23 10.6 23 10.6
29	13 34 8.98 54.31	7 23 50.9 5 10.7		1.02 8699 267	23 3.6 23 3.6
31	13 35 3.29 54.12	7 29 1.6 5 8.0		1.02 8432 308	22 56.7 22 56.7
Nov. 2	13 35 57.41 53.91	-7 34 9.6 5 5.3		1.02 8124 349	22 49.7 22 49.7
4	13 36 51.32 53.65	7 39 14.9 5 2.2		1.02 7775 390	22 42.7 22 42.7
6	13 37 44.97 53.36	7 44 17.1 4 59.1		1.02 7385 431	22 35.7 22 35.7
8	13 38 38.33 53.02	7 49 16.2 4 55.7		1.02 6954 470	22 28.7 22 28.7
10	13 39 31.35 52.65	7 54 11.9 4 52.1		1.02 6484 511	22 21.8 22 21.8
12	13 40 24.00 52.24	7 59 4.0 4 48.2		1.02 5973 551	22 14.8 22 14.8
14	13 41 16.24 51.80	-8 3 52.2 4 44.2		1.02 5422 590	22 7.8 22 7.8
16	13 42 8.04 51.31	8 8 36.4 4 40.0		1.02 4832 629	22 0.8 22 0.8
18	13 42 59.35 50.80	8 13 16.4 4 35.6		1.02 4203 667	21 53.8 21 53.8
20	13 43 50.15 50.25	8 17 52.0 4 31.1		1.02 3536 705	21 46.8 21 46.8
22	13 44 40.40 49.68	8 22 23.1 4 26.4		1.02 2831 742	21 39.7 21 39.7
24	13 45 30.08	8 26 49.5		1.02 2089	21 32.6 21 32.6



Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Nov. 24	13 <sup>h</sup> 45 <sup>m</sup> 30.08 49.06	-8 <sup>m</sup> 26' 49.5 4 21.5	I.02 2089 780	21 <sup>h</sup> 32.6
26	13 46 19.14 48.41	8 31 11.0 4 16.4	I.02 1309 817	21 25.6
28	13 47 7.55 47.73	8 35 27.4 4 11.3	I.02 0492 853	21 18.5
30	13 47 55.28 47.01	8 39 38.7 4 5.8	I.01 9639 889	21 11.5
Dez. 2	13 48 42.29 46.26	8 43 44.5 4 0.3	I.01 8750 925	21 4.4
4	13 49 28.55 45.46	8 47 44.8 3 54.5	I.01 7825 959	20 57.3
6	13 50 14.01 44.61	-8 51 39.3 3 48.6	I.01 6866 993	20 50.1
8	13 50 58.62 43.74	8 55 27.9 3 42.4	I.01 5873 1027	20 43.0
10	13 51 42.36 42.82	8 59 10.3 3 36.2	I.01 4846 1059	20 35.9
12	13 52 25.18 41.87	9 2 46.5 3 29.7	I.01 3787 1091	20 28.7
14	13 53 7.05 40.89	9 6 16.2 3 23.1	I.01 2696 1121	20 21.5
16	13 53 47.94 39.88	9 9 39.3 3 16.3	I.01 1575 1151	20 14.3
18	13 54 27.82 38.82	-9 12 55.6 3 9.5	I.01 0424 1180	20 7.1
20	13 55 6.64 37.75	9 16 5.1 3 2.5	I.00 9244 1208	19 59.9
22	13 55 44.39 36.63	9 19 7.6 2 55.4	I.00 8036 1235	19 52.6
24	13 56 21.02 35.49	9 22 3.0 2 48.2	I.00 6801 1260	19 45.4
26	13 56 56.51 34.31	9 24 51.2 2 40.7	I.00 5541 1286	19 38.1
28	13 57 30.82 33.11	9 27 31.9 2 33.3	I.00 4255 1310	19 30.8
30	13 58 3.93 31.86	-9 30 5.2 2 25.6	I.00 2945 1332	19 23.5
32	13 58 35.79	9 32 30.8	I.00 1613	19 16.2

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
<b>1923</b>				
Jan. 0	22 <sup>h</sup> 48 <sup>m</sup> 48.11 15.39	-8° 22' 5.6 1' 37.8	1.31 2574 <sup>29</sup> 637	4 <sup>h</sup> 11.6 <sup>m</sup> 2.0
2	22 49 3.50 16.00	8 20 27.8 1' 41.5	1.31 3211 623	4 4.0
4	22 49 19.50 16.60	8 18 46.3 1' 45.1	1.31 3834 609	3 56.4
6	22 49 36.10 17.18	8 17 1.2 1' 48.5	1.31 4443 594	3 48.8
8	22 49 53.28 17.74	8 15 12.7 1' 51.9	1.31 5037 579	3 41.3
10	22 50 11.02 18.30	8 13 20.8 1' 55.3	1.31 5616 <sup>20</sup> 564	3 33.7
12	22 50 29.32 18.83	-8 11 25.5 1' 58.4	1.31 6180 547	3 26.1 2.0
14	22 50 48.15 19.35	8 9 27.1 2' 1.6	1.31 6727 530	3 18.5
16	22 51 7.50 19.85	8 7 25.5 2' 4.6	1.31 7257 512	3 11.0
18	22 51 27.35 20.32	8 5 20.9 2' 7.4	1.31 7769 494	3 3.5
20	22 51 47.67 20.79	8 3 13.5 2' 10.1	1.31 8263 475	2 56.0
22	22 52 8.46 21.22	8 1 3.4 2' 12.8	1.31 8738 457	2 48.4
24	22 52 29.68 21.63	-7 58 50.6 2' 15.3	1.31 9195 437	2 40.9
26	22 52 51.31 22.03	7 56 35.3 2' 17.6	1.31 9632 417	2 33.4
28	22 53 13.34 22.40	7 54 17.7 2' 19.9	1.32 0049 397	2 25.9
30	22 53 35.74 22.76	7 51 57.8 2' 22.0	1.32 0446 376	2 18.4
Febr. 1	22 53 58.50 23.09	7 49 35.8 2' 24.1	1.32 0822 356	2 10.9
3	22 54 21.59 23.40	7 47 11.7 2' 25.9	1.32 1178 335	2 3.4
5	22 54 44.99 23.70	-7 44 45.8 2' 27.7	1.32 1513 314	1 56.0
7	22 55 8.69 23.98	7 42 18.1 2' 29.4	1.32 1827 292	1 48.5
9	22 55 32.67 24.24	7 39 48.7 2' 30.9	1.32 2119 270	1 41.1
11	22 55 56.91 24.48	7 37 17.8 2' 32.3	1.32 2389 247	1 33.6
13	22 56 21.39 24.69	7 34 45.5 2' 33.5	1.32 2636 226	1 26.1
15	22 56 46.08 24.87	7 32 12.0 2' 34.7	1.32 2862 203	1 18.6
17	22 57 10.95 25.04	-7 29 37.3 2' 35.7	1.32 3065 180	1 11.2
19	22 57 35.99 25.18	7 27 1.6 2' 36.5	1.32 3245 157	1 3.7
21	22 58 1.17 25.30	7 24 25.1 2' 37.2	1.32 3402 134	0 56.3
23	22 58 26.47 25.41	7 21 47.9 2' 37.8	1.32 3536 111	0 48.9
25	22 58 51.88 25.48	7 19 10.1 2' 38.2	1.32 3647 88	0 41.5
27	22 59 17.36 25.54	7 16 31.9 2' 38.6	1.32 3735 65	0 34.1
März 1	22 59 42.90 25.58	-7 13 53.3 2' 38.7	1.32 3800 42	0 26.6
3	23 0 8.48 25.59	7 11 14.6 2' 38.8	1.32 3842 19	0 19.2
5	23 0 34.07 25.59	7 8 35.8 2' 38.7	1.32 3861 4	0 11.7
7	23 0 59.66 25.56	7 5 57.1 2' 38.5	1.32 3857 27	0 4.3
9	23 1 25.22 25.52	7 3 18.6 2' 38.2	1.32 3830 50	23 53.1
11	23 1 50.74 25.46	7 0 40.4 2' 37.8	1.32 3780 72	23 45.7
13	23 2 16.20 25.37	-6 58 2.6 2' 37.2	1.32 3708 96	23 38.2
15	23 2 41.57 25.26	6 55 25.4 2' 36.4	1.32 3612 119	23 30.8
17	23 3 6.83 25.13	6 52 49.0 2' 35.6	1.32 3493 141	23 23.3
19	23 3 31.96 24.98	6 50 13.4 2' 34.5	1.32 3352 164	23 15.9
21	23 3 56.94 24.80	6 47 38.9 2' 33.4	1.32 3188 186	23 8.4
23	23 4 21.74	6 45 5.5	1.32 3002	23 1.0

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
März 23	23 <sup>h</sup> 4 <sup>m</sup> 21.74 <sup>s</sup> 24.61	-6° 45' 5.5" 2 32.2	1.32 3002 208	23 <sup>h</sup> 1.0 <sup>m</sup>
25	23 4 46.35 24.39	6 42 33.3 2 30.8	1.32 2794 230	22 53.5
27	23 5 10.74 24.16	6 40 2.5 2 29.3	1.32 2564 251	22 46.1
29	23 5 34.90 23.90	6 37 33.2 2 27.6	1.32 2313 273	22 38.6
31	23 5 58.80 23.64	6 35 5.6 2 25.9	1.32 2040 293	22 31.1
April 2	23 6 22.44 23.35	6 32 39.7 2 24.1	1.32 1747 314	22 23.6
4	23 6 45.79 23.05	-6 30 15.6 2 22.1	1.32 1433 334	22 16.2
6	23 7 8.84 22.72	6 27 53.5 2 20.0	1.32 1099 355	22 8.7
8	23 7 31.56 22.39	6 25 33.5 2 17.8	1.32 0744 374	22 1.2
10	23 7 53.95 22.03	6 23 15.7 2 15.5	1.32 0370 394	21 53.7
12	23 8 15.98 21.65	6 21 0.2 2 13.1	1.31 9976 412	21 46.2
14	23 8 37.63 21.25	6 18 47.1 2 10.5	1.31 9564 431	21 38.7
16	23 8 58.88 20.83	-6 16 36.6 2 7.9	1.31 9133 450	21 31.2
18	23 9 19.71 20.39	6 14 28.7 2 5.0	1.31 8683 467	21 23.7
20	23 9 40.10 19.95	6 12 23.7 2 2.1	1.31 8216 485	21 16.2
22	23 10 0.05 19.48	6 10 21.6 1 59.2	1.31 7731 502	21 8.6
24	23 10 19.53 19.00	6 8 22.4 1 56.1	1.31 7229 518	21 1.1
26	23 10 38.53 18.50	6 6 26.3 1 52.9	1.31 6711 533	20 53.5
28	23 10 57.03 17.99	-6 4 33.4 1 49.6	1.31 6178 549	20 45.9
30	23 11 15.02 17.47	6 2 43.8 1 46.3	1.31 5629 563	20 38.3
Mai 2	23 11 32.49 16.94	6 0 57.5 1 42.8	1.31 5066 578	20 30.8
4	23 11 49.43 16.39	5 59 14.7 1 39.4	1.31 4488 591	20 23.2
6	23 12 5.82 15.83	5 57 35.3 1 35.7	1.31 3897 605	20 15.6
8	23 12 21.65 15.26	5 55 59.6 1 32.0	1.31 3292 617	20 8.0
10	23 12 36.91 14.66	-5 54 27.6 1 28.2	1.31 2675 629	20 0.4
12	23 12 51.57 14.05	5 52 59.4 1 24.4	1.31 2046 641	19 52.8
14	23 13 5.62 13.44	5 51 35.0 1 20.4	1.31 1405 651	19 45.2
16	23 13 19.06 12.81	5 50 14.6 1 16.4	1.31 0754 661	19 37.5
18	23 13 31.87 12.18	5 48 58.2 1 12.4	1.31 0093 670	19 29.9
20	23 13 44.05 11.52	5 47 45.8 1 8.2	1.30 9423 679	19 22.2
22	23 13 55.57 10.87	-5 46 37.6 1 4.0	1.30 8744 687	19 14.5
24	23 14 6.44 10.20	5 45 33.6 0 59.7	1.30 8057 694	19 6.8
26	23 14 16.64 9.54	5 44 33.9 0 55.5	1.30 7363 700	18 59.1
28	23 14 26.18 8.86	5 43 38.4 0 51.2	1.30 6663 706	18 51.4
30	23 14 35.04 8.17	5 42 47.2 0 46.8	1.30 5957 711	18 43.7
Juni 1	23 14 43.21 7.49	5 42 0.4 0 42.4	1.30 5246 715	18 36.0
3	23 14 50.70 6.79	-5 41 18.0 0 38.0	1.30 4531 719	18 28.3
5	23 14 57.49 6.09	5 40 40.0 0 33.5	1.30 3812 722	18 20.5
7	23 15 3.58 5.38	5 40 6.5 0 29.0	1.30 3090 723	18 12.7
9	23 15 8.96 4.67	5 39 37.5 0 24.5	1.30 2367 725	18 4.9
11	23 15 13.63 3.95	5 39 13.0 0 19.9	1.30 1642 725	17 57.1
13	23 15 17.58	5 38 53.1	1.30 0917	17 49.3



Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Juni 13	23 <sup>h</sup> 15 <sup>m</sup> 17.58 <sup>s</sup>	— 5 38' 53.1"	1.30 0917	17 <sup>h</sup> 49.3
15	23 15 20.81	5 38 57.7	1.30 0192	17 41.5
17	23 15 23.32	5 38 26.8	1.29 9468	17 33.6
19	23 15 25.10	5 38 20.5	1.29 8746	17 25.8
21	23 15 26.17	5 38 18.8	1.29 8028	17 17.9
23	23 15 26.52	5 38 21.6	1.29 7314	17 10.1
25	23 15 26.15	— 5 38 28.9	1.29 6604	17 2.2
27	23 15 25.07	5 38 40.7	1.29 5900	16 54.3
29	23 15 23.29	5 38 56.9	1.29 5202	16 46.4
Juli 1	23 15 20.81	5 39 17.5	1.29 4511	16 38.5
3	23 15 17.63	5 39 42.5	1.29 3828	16 30.6
5	23 15 13.75	5 40 11.8	1.29 3154	16 22.7
7	23 15 9.19	— 5 40 45.4	1.29 2489	16 14.7
9	23 15 3.94	5 41 23.2	1.29 1835	16 6.8
11	23 14 58.02	5 42 5.3	1.29 1192	15 58.8
13	23 14 51.43	5 42 51.5	1.29 0561	15 50.8
15	23 14 44.19	5 43 41.8	1.28 9943	15 42.8
17	23 14 36.30	5 44 36.0	1.28 9338	15 34.8
19	23 14 27.78	— 5 45 34.1	1.28 8748	15 26.8
21	23 14 18.65	5 46 35.9	1.28 8174	15 18.8
23	23 14 8.92	5 47 41.4	1.28 7616	15 10.8
25	23 13 58.61	5 48 50.4	1.28 7075	15 2.8
27	23 13 47.74	5 50 2.9	1.28 6552	14 54.7
29	23 13 36.32	5 51 18.7	1.28 6047	14 46.7
31	23 13 24.36	— 5 52 37.8	1.28 5560	14 38.6
Aug. 2	23 13 11.88	5 54 0.0	1.28 5093	14 30.5
4	23 12 58.91	5 55 25.1	1.28 4646	14 22.4
6	23 12 45.45	5 56 53.1	1.28 4220	14 14.4
8	23 12 31.53	5 58 23.8	1.28 3816	14 6.3
10	23 12 17.18	5 59 57.1	1.28 3434	13 58.2
12	23 12 2.41	— 6 1 32.8	1.28 3075	13 50.1
14	23 11 47.25	6 3 10.8	1.28 2739	13 42.0
16	23 11 31.72	6 4 50.9	1.28 2428	13 33.8
18	23 11 15.86	6 6 32.9	1.28 2141	13 25.7
20	23 10 59.68	6 8 16.6	1.28 1879	13 17.5
22	23 10 43.22	6 10 1.9	1.28 1642	13 9.4
24	23 10 26.50	— 6 11 48.7	1.28 1430	13 1.3
26	23 10 9.55	6 13 36.7	1.28 1244	12 53.2
28	23 9 52.40	6 15 25.7	1.28 1084	12 45.0
30	23 9 35.07	6 17 15.6	1.28 0951	12 36.9
Sept. 1	23 9 17.58	6 19 6.2	1.28 0844	12 28.7
3	23 8 59.96	6 20 57.4	1.28 0764	12 20.6

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Sept. 3	23 <sup>h</sup> 8 <sup>m</sup> 59.96 17.71	-6° 20' 57.4 I 51.6	1.28 0764 53	12 <sup>h</sup> 20.6
5	23 8 42.25 17.78	6 22 49.0 I 51.7	1.28 0711 26	12 12.4
7	23 8 24.47 17.82	6 24 40.7 I 51.7	1.28 0685 2	12 4.2
9	23 8 6.65 17.82	6 26 32.4 I 51.4	1.28 0687 29	II 56.0
11	23 7 48.83 17.79	6 28 23.8 I 51.1	1.28 0716 57	II 47.8
13	23 7 31.04 17.74	6 30 14.9 I 50.5	1.28 0773 84	II 39.7
15	23 7 13.30 17.65	-6 32 5.4 I 49.7	1.28 0857 112	II 31.5
17	23 6 55.65 17.52	6 33 55.1 I 48.6	1.28 0969 139	II 23.4
19	23 6 38.13 17.38	6 35 43.7 I 47.5	1.28 1108 165	II 15.2
21	23 6 20.75 17.21	6 37 31.2 I 46.2	1.28 1273 192	II 7.1
23	23 6 3.54 17.00	6 39 17.4 I 44.7	1.28 1465 218	IO 58.9
25	23 5 46.54 16.76	6 41 2.1 I 43.0	1.28 1683 245	IO 50.8
27	23 5 29.78 16.51	-6 42 45.1 I 41.1	1.28 1928 270	IO 42.6
29	23 5 13.27 16.23	6 44 26.2 I 39.1	1.28 2198 295	IO 34.5
Okt. 1	23 4 57.04 15.91	6 46 5.3 I 36.9	1.28 2493 321	IO 26.4
3	23 4 41.13 15.56	6 47 42.2 I 34.6	1.28 2814 345	IO 18.3
5	23 4 25.57 15.20	6 49 16.8 I 32.1	1.28 3159 370	IO 10.1
7	23 4 10.37 14.81	6 50 48.9 I 29.4	1.28 3529 394	IO 2.0
9	23 3 55.56 14.38	-6 52 18.3 I 26.5	1.28 3923 417	9 53.9
11	23 3 41.18 13.92	6 53 44.8 I 23.5	1.28 4340 439	9 45.8
13	23 3 27.26 13.45	6 55 8.3 I 20.4	1.28 4779 462	9 37.7
15	23 3 13.81 12.95	6 56 28.7 I 17.0	1.28 5241 483	9 29.6
17	23 3 0.86 12.42	6 57 45.7 I 13.7	1.28 5724 504	9 21.5
19	23 2 48.44 11.88	6 58 59.4 I 10.2	1.28 6228 523	9 13.5
21	23 2 36.56 11.33	-7 0 9.6 I 6.5	1.28 6751 542	9 5.4
23	23 2 25.23 10.75	7 1 16.1 I 2.7	1.28 7293 561	8 57.4
25	23 2 14.48 10.15	7 2 18.8 0 58.9	1.28 7854 578	8 49.3
27	23 2 4.33 9.53	7 3 17.7 0 54.9	1.28 8432 595	8 41.3
29	23 I 54.80 8.90	7 4 12.6 0 50.9	1.28 9027 612	8 33.3
31	23 I 45.90 8.25	7 5 3.5 0 46.7	1.28 9639 627	8 25.3
Nov. 2	23 I 37.65 7.59	-7 5 50.2 0 42.5	1.29 0266 642	8 17.3
4	23 I 30.06 6.91	7 6 32.7 0 38.1	1.29 0908 655	8 9.3
6	23 I 23.15 6.21	7 7 10.8 0 33.8	1.29 1563 668	8 1.3
8	23 I 16.94 5.50	7 7 44.6 0 29.3	1.29 2231 680	7 53.4
10	23 I 11.44 4.78	7 8 13.9 0 24.7	1.29 2911 691	7 45.4
12	23 I 6.66 4.05	7 8 38.6 0 20.1	1.29 3602 701	7 37.5
14	23 I 2.61 3.31	-7 8 58.7 0 15.5	1.29 4303 709	7 29.5
16	23 0 59.30 2.56	7 9 14.2 0 10.8	1.29 5012 717	7 21.6
18	23 0 56.74 1.82	7 9 25.0 0 6.2	1.29 5729 725	7 13.7
20	23 0 54.92 1.07	7 9 31.2 0 1.4	1.29 6454 731	7 5.8
22	23 0 53.85 0.31	7 9 32.6 0 3.3	1.29 7185 736	6 57.9
24	23 0 53.54	7 9 29.3	1.29 7921	6 50.1

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Nov. 24	23 <sup>h</sup> 0 <sup>m</sup> 53.54 0.45	-7° 9' 29.3 0 8.0	1.29 7921	6 <sup>h</sup> 50.1
26	23 0 53.99 1.21	7 9 21.3 0 12.8	1.29 8662	741 6 42.2
28	23 0 55.20 1.97	7 9 8.5 0 17.5	1.29 9406	744 6 34.4
30	23 0 57.17 2.74	7 8 51.0 0 22.3	1.30 0153	747 6 26.6
Dez. 2	23 0 59.91 3.51	7 8 28.7 0 27.0	1.30 0902	749 6 18.8
4	23 I 3.42 4.27	7 8 1.7 0 31.8	1.30 1651	749 6 11.0
6	23 I 7.69 5.04	-7 7 29.9 0 36.5	1.30 2400	748 6 3.2
8	23 I 12.73 5.80	7 6 53.4 0 41.2	1.30 3148	746 5 55.4
10	23 I 18.53 6.56	7 6 12.2 0 45.9	1.30 3894	743 5 47.6
12	23 I 25.09 7.30	7 5 26.3 0 50.5	1.30 4637	739 5 39.8
14	23 I 32.39 8.05	7 4 35.8 0 55.1	1.30 5376	735 5 32.1
16	23 I 40.44 8.78	7 3 40.7 0 59.6	1.30 6111	729 5 24.4
18	23 I 49.22 9.50	-7 2 41.1 I 4.1	1.30 6840	722 5 16.7
20	23 I 58.72 10.21	7 I 37.0 I 8.4	1.30 7562	715 5 9.0
22	23 2 8.93 10.92	7 0 28.6 I 12.8	1.30 8277	707 5 1.3
24	23 2 19.85 11.61	6 59 15.8 I 17.0	1.30 8984	699 4 53.6
26	23 2 31.46 12.29	6 57 58.8 I 21.2	1.30 9683	689 4 45.9
28	23 2 43.75 12.97	6 56 37.6 I 25.4	1.31 0372	679 4 38.2
30	23 2 56.72 13.63	-6 55 12.2 I 29.5	1.31 1051	668 4 30.6
32	23 3 10.35	6 53 42.7	1.31 1719	668 4 23.0



Tag	O <sup>b</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Jan. 0	9 <sup>h</sup> 21 <sup>m</sup> 0.01 <sup>s</sup> 20.06	+15 41 18.6 1 36.9	1.46 6980 613	14 <sup>h</sup> 42.0 <sup>m</sup> 29.30
4	9 20 39.95 21.42	15 42 55.5 1 42.9	1.46 6367 554	14 26.0
8	9 20 18.53 22.64	15 44 38.4 1 48.4	1.46 5813 491	14 9.9
12	9 19 55.89 23.73	15 46 26.8 1 53.1	1.46 5322 425	13 53.8 29.64
16	9 19 32.16 24.65	15 48 19.9 1 57.0	1.46 4897 356	13 37.7
20	9 19 7.51 25.40	15 50 16.9 2 0.2	1.46 4541 285	13 21.5
24	9 18 42.11 25.98	+15 52 17.1 2 2.5	1.46 4256 214	13 5.4 29.14
28	9 18 16.13 26.40	15 54 19.6 2 4.1	1.46 4042 140	12 49.2
Febr. 1	9 17 49.73 26.63	15 56 23.7 2 4.8	1.46 3902 66	12 33.0 29.10
5	9 17 23.10 26.71	15 58 28.5 2 4.8	1.46 3836 8	12 16.9
9	9 16 56.39 26.62	16 0 33.3 2 4.0	1.46 3844 81	12 0.7 29.10
13	9 16 29.77 26.34	16 2 37.3 2 2.3	1.46 3925 156	11 44.5
17	9 16 3.43 25.89	+16 4 39.6 2 0.0	1.46 4081 228	11 28.3
21	9 15 37.54 25.27	16 6 39.6 1 56.7	1.46 4309 299	11 12.2 29.12
25	9 15 12.27 24.47	16 8 36.3 1 52.9	1.46 4608 367	10 56.1
März 1	9 14 47.80 23.54	16 10 29.2 1 48.4	1.46 4975 434	10 39.9 29.17
5	9 14 24.26 22.47	16 12 17.6 1 43.2	1.46 5409 497	10 23.8 29.16
9	9 14 1.79 21.25	16 14 0.8 1 37.4	1.46 5906 559	10 7.7
13	9 13 40.54 19.90	+16 15 38.2 1 31.1	1.46 6465 616	9 51.6 29.25
17	9 13 20.64 18.41	16 17 9.3 1 24.2	1.46 7081 671	9 35.6
21	9 13 2.23 16.81	16 18 33.5 1 16.8	1.46 7752 720	9 19.6 29.36
25	9 12 45.42 15.11	16 19 50.3 1 9.1	1.46 8472 767	9 3.6
29	9 12 30.31 13.33	16 20 59.4 1 0.9	1.46 9239 808	8 47.6 29.49
April 2	9 12 16.98 11.47	16 22 0.3 0 52.5	1.47 0047 846	8 31.6 29.50
6	9 12 5.51 9.54	+16 22 52.8 0 43.8	1.47 0893 879	8 15.7
10	9 11 55.97 7.56	16 23 36.6 0 34.9	1.47 1772 907	7 59.8 29.65
14	9 11 48.41 5.51	16 24 11.5 0 25.7	1.47 2679 931	7 44.0
18	9 11 42.90 3.43	16 24 37.2 0 16.4	1.47 3610 951	7 28.2
22	9 11 39.47 1.33	16 24 53.6 0 7.0	1.47 4561 964	7 12.4 29.81
26	9 11 38.14 0.78	16 25 0.6 0 2.4	1.47 5525 974	6 56.6
30	9 11 38.92 2.87	+16 24 58.2 0 11.7	1.47 6499 979	6 40.9 29.97
Mai 4	9 11 41.79 4.97	16 24 46.5 0 21.1	1.47 7478 980	6 25.3
8	9 11 46.76 7.06	16 24 25.4 0 30.4	1.47 8458 976	6 9.6
12	9 11 53.82 9.13	16 23 55.0 0 39.6	1.47 9434 968	5 54.0 30.14
16	9 12 2.95 11.17	16 23 15.4 0 48.7	1.48 0402 955	5 38.4
20	9 12 14.12 13.15	16 22 26.7 0 57.6	1.48 1357 939	5 22.9 30.2
24	9 12 27.27 15.08	+16 21 29.1 1 6.2	1.48 2296 918	5 7.4
28	9 12 42.35 16.95	16 20 22.9 1 14.6	1.48 3214 893	4 51.9 30.47
Juni 1	9 12 59.30 18.74	16 19 8.3 1 22.8	1.48 4107 866	4 36.5 30.49
5	9 13 18.04 20.50	16 17 45.5 1 30.7	1.48 4973 834	4 21.1
9	9 13 38.54 22.16	16 16 14.8 1 38.2	1.48 5807 800	4 5.7
13	9 14 0.70	16 14 36.6	1.48 6607	3 50.3 30.63

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Juni 13	9 <sup>h</sup> 14 <sup>m</sup> 0.70 <sup>s</sup>	+16° 14' 36.6"	1.48 6607	3 <sup>h</sup> 50.3
17	9 14 24.46	16 12 51.1	1.48 7369	3 35.0
21	9 14 49.71	16 10 58.7	1.48 8089	3 19.7
25	9 15 16.36	16 8 59.8	1.48 8766	3 4.4
29	9 15 44.31	16 6 54.9	1.48 9396	2 49.1
Juli 3	9 16 13.46	16 4 44.3	1.48 9978	2 33.9
7	9 16 43.73	+16 2 28.5	1.49 0509	2 18.6
11	9 17 15.00	16 0 7.8	1.49 0988	2 3.4
15	9 17 47.19	15 57 42.8	1.49 1412	1 48.2
19	9 18 20.15	15 55 13.9	1.49 1780	1 33.1
23	9 18 53.77	15 52 41.7	1.49 2090	1 17.9
27	9 19 27.95	15 50 6.7	1.49 2341	1 2.7
31	9 20 2.56	+15 47 29.4	1.49 2533	0 47.6
Aug. 4	9 20 37.49	15 44 50.3	1.49 2665	0 32.4
8	9 21 12.65	15 42 9.9	1.49 2735	0 17.3
12	9 21 47.89	15 39 28.7	1.49 2744	0 2.1
16	9 22 23.11	15 36 47.4	1.49 2692	23 43.2
20	9 22 58.16	15 34 6.5	1.49 2577	23 28.1
24	9 23 32.92	+15 31 26.7	1.49 2401	23 12.9
28	9 24 7.29	15 28 48.4	1.49 2166	22 57.8
Sept. 1	9 24 41.16	15 26 12.3	1.49 1870	22 42.6
5	9 25 14.40	15 23 38.7	1.49 1516	22 27.4
9	9 25 46.90	15 21 8.5	1.49 1103	22 12.2
13	9 26 18.55	15 18 42.1	1.49 0633	21 57.0
17	9 26 49.20	+15 16 20.2	1.49 0108	21 41.8
21	9 27 18.76	15 14 3.2	1.48 9531	21 26.6
25	9 27 47.12	15 11 51.8	1.48 8903	21 11.3
29	9 28 14.19	15 9 46.4	1.48 8227	20 56.0
Okt. 3	9 28 39.86	15 7 47.6	1.48 7504	20 40.7
7	9 29 4.04	15 5 55.8	1.48 6738	20 25.4
11	9 29 26.63	+15 4 11.6	1.48 5932	20 10.0
15	9 29 47.52	15 2 35.4	1.48 5088	19 54.6
19	9 30 6.64	15 1 7.7	1.48 4211	19 39.2
23	9 30 23.92	14 59 48.8	1.48 3305	19 23.7
27	9 30 39.29	14 58 39.1	1.48 2373	19 8.3
31	9 30 52.70	14 57 38.9	1.48 1419	18 52.8
Nov. 4	9 31 4.09	+14 56 48.5	1.48 0447	18 37.2
8	9 31 13.40	14 56 8.2	1.47 9462	18 21.6
12	9 31 20.59	14 55 38.1	1.47 8468	18 6.0
16	9 31 25.64	14 55 18.4	1.47 7470	17 50.4
20	9 31 28.53	14 55 9.2	1.47 6474	17 34.7
24	9 31 29.27	14 55 10.4	1.47 5484	17 19.0

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1923				
Nov. 24	9 <sup>h</sup> 31 <sup>m</sup> 29.27 <sup>s</sup> 1.41	+14° 55' 10.4" 0' 11.6"	1.47 5484 979	17 <sup>h</sup> 19.0 <sup>m</sup>
28	9 31 27.86 3.54	14 55 22.0 0 22.0	1.47 4505 964	17 3.2
Dez. 2	9 31 24.32 5.66	14 55 44.0 0 32.3	1.47 3541 943	16 47.4
6	9 31 18.66 7.75	14 56 16.3 0 42.2	1.47 2598 917	16 31.6
10	9 31 10.91 9.78	14 56 58.5 0 52.0	1.47 1681 886	16 15.7
14	9 31 1.13 11.72	14 57 50.5 1 1.4	1.47 0795 850	15 59.8
18	9 30 49.41 13.60	+14 58 51.9 1 10.3	1.46 9945 809	15 43.9
22	9 30 35.81 15.39	15 0 2.2 1 18.9	1.46 9136 765	15 27.9
26	9 30 20.42 17.07	15 1 21.1 1 26.7	1.46 8371 716	15 12.0
30	9 30 3.35 18.67	15 2 47.8 1 34.2	1.46 7655 663	14 56.0
34	9 29 44.68	15 4 22.0	1.46 6992	14 39.9



## Mittleres Äquinoktium 1925.0

Mittlere Zeit Greenwich	log r	Länge in d. Bahn	Red. a. d. Ekl.	Breite	Mittlere Zeit Greenwich	log r	Länge in d. Bahn	Red. a. d. Ekl.	Breite
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### MERKUR 1923

1923					1923				
Jan. -1.0	9.5999	326° 49	+ 4	-6° 55	Juli 3.0	9.5396	6° 16	+13	-4° 36
+4.0	9.5676	347 12	+11	-6 5	8.0	9.5083	33 14	+ 6	-1 43
9.0	9.5332	11 2	+12	-4 9	13.0	9.4897	63 36	- 7	+1 57
14.0	9.5035	38 43	+ 4	-1 4	18.0	9.4919	95 11	-13	+5 11
19.0	9.4884	69 32	- 9	+2 38	23.0	9.5138	125 0	- 5	+6 50
24.0	9.4947	101 0	-12	+5 38	28.0	9.5464	151 12	+ 6	+6 48
29.0	9.5194	130 13	- 3	+6 57	Aug. 2.0	9.5806	173 36	+12	+5 39
Febr. 3.0	9.5529	155 41	+ 8	+6 39	7.0	9.6110	192 53	+12	+3 58
8.0	9.5867	177 26	+13	+5 22	12.0	9.6354	209 52	+ 7	+2 7
13.0	9.6161	196 13	+11	+3 37	17.0	9.6532	225 16	+ 1	+0 16
18.0	9.6393	212 51	+ 6	+1 46	22.0	9.6644	239 40	- 5	-1 29
23.0	9.6558	228 1	0	-0 4	27.0	9.6689	253 34	-10	-3 5
28.0	9.6657	242 18	- 6	-1 47	Sept. 1.0	9.6669	267 23	-13	-4 29
März 5.0	9.6690	256 9	-11	-3 21	6.0	9.6584	281 32	-12	-5 40
10.0	9.6658	269 59	-13	-4 44	11.0	9.6433	296 28	- 9	-6 32
15.0	9.6561	284 15	-12	-5 51	16.0	9.6214	312 45	- 2	-6 59
20.0	9.6397	299 24	- 8	-6 39	21.0	9.5932	331 1	+ 6	-6 48
25.0	9.6166	316 0	- 1	-7 0	26.0	9.5601	352 6	+12	-5 45
30.0	9.5873	334 44	+ 7	-6 41	Okt. 1.0	9.5260	16 45	+11	-3 34
April 4.0	9.5536	356 26	+13	-5 26	6.0	9.4986	45 15	+ 1	-0 16
9.0	9.5200	21 49	+10	-3 1	11.0	9.4878	76 28	-11	+3 23
14.0	9.4950	50 58	- 2	+0 26	16.0	9.4988	107 39	-11	+6 4
19.0	9.4883	82 25	-12	+4 0	21.0	9.5264	136 7	- 1	+7 0
24.0	9.5030	113 16	-10	+6 23	26.0	9.5605	160 44	+ 9	+6 26
29.0	9.5325	141 2	+ 2	+6 59	31.0	9.5936	181 46	+13	+5 0
Mai 4.0	9.5669	164 56	+11	+6 13	Nov. 5.0	9.6217	200 1	+11	+3 13
9.0	9.5993	185 23	+13	+4 41	10.0	9.6435	216 16	+ 5	+1 21
14.0	9.6263	203 12	+10	+2 52	15.0	9.6586	231 12	- 2	-0 28
19.0	9.6468	219 9	+ 4	+1 0	20.0	9.6670	245 21	- 8	-2 9
24.0	9.6606	233 54	- 3	-0 47	25.0	9.6689	259 10	-11	-3 41
29.0	9.6678	247 57	- 8	-2 27	30.0	9.6643	273 4	-13	-5 0
Juni 3.0	9.6685	261 45	-12	-3 56	Dez. 5.0	9.6531	287 28	-11	-6 4
8.0	9.6627	275 43	-13	-5 13	10.0	9.6352	302 53	- 6	-6 47
13.0	9.6502	290 16	-10	-6 14	15.0	9.6107	319 53	+ 1	-7 0
18.0	9.6311	305 56	- 5	-6 52	20.0	9.5802	339 12	+ 9	-6 30
23.0	9.6054	323 19	+ 3	-6 58	25.0	9.5460	1 38	+13	-5 1
28.0	9.5740	343 9	+10	-6 18	30.0	9.5135	27 53	+ 8	-2 20
Juli 3.0	9.5396	6 16	+13	-4 36	35.0	9.4917	51 44	- 5	+1 15

$$\Omega = 47^\circ 26'.7; \quad i = 7^\circ 0'.21; \quad m = \frac{1}{6000000}$$

Mittleres Äquinoktium 1925.0

Mittlere Zeit Greenwich	$\log r$	Länge in der Bahn	Red. auf d. Eklipt.	Breite	$\log r$	Länge in der Bahn	Red. auf d. Eklipt.	Breite	
VENUS 1923					MARS 1923				
1923									
Jan. - 6.0	9.85654	111 8.4	-2.8	+1 57.1	0.15150	20 4.7	+0.7	-0 53.6	
+ 4.0	9.85638	127 22.6	-2.9	+2 39.0	0.15448	26 4.0	+0.6	-0 43.2	
14.0	9.85646	143 36.9	-2.1	+3 8.3	0.15769	31 58.2	+0.5	-0 32.5	
24.0	9.85676	159 50.4	-0.6	+3 22.5	0.16110	37 47.0	+0.3	-0 21.6	
Febr. 3.0	9.85726	176 2.1	+1.0	+3 20.5	0.16466	43 30.3	+0.1	-0 10.6	
13.0	9.85793	192 11.1	+2.4	+3 2.7	0.16833	49 7.9	0.0	+0 0.3	
23.0	9.85870	208 17.0	+3.0	+2 30.6	0.17207	54 39.8	-0.2	+0 11.0	
März 5.0	9.85952	224 19.2	+2.7	+1 46.9	0.17584	60 6.1	-0.3	+0 21.4	
15.0	9.86032	240 17.9	+1.6	+0 55.1	0.17961	65 26.7	-0.5	+0 31.5	
25.0	9.86104	256 13.2	0.0	-0 0.8	0.18334	70 41.8	-0.6	+0 41.1	
April 4.0	9.86163	272 5.6	-1.6	-0 56.4	0.18700	75 51.5	-0.7	+0 50.2	
14.0	9.86205	287 55.7	-2.7	-1 47.6	0.19057	80 56.2	-0.8	+0 58.7	
24.0	9.86225	303 44.5	-3.0	-2 30.7	0.19402	85 56.0	-0.9	+1 6.7	
Mai 4.0	9.86223	319 32.9	-2.4	-3 2.3	0.19734	90 51.1	-0.9	+1 14.1	
14.0	9.86199	335 21.9	-1.1	-3 20.1	0.20049	95 41.9	-0.9	+1 20.8	
24.0	9.86155	351 12.4	+0.5	-3 22.8	0.20346	100 28.6	-0.9	+1 26.9	
Juni 3.0	9.86093	7 5.2	+2.0	-3 10.0	0.20625	105 11.5	-0.8	+1 32.3	
13.0	9.86019	23 1.0	+2.9	-2 42.6	0.20883	109 50.9	-0.8	+1 37.0	
23.0	9.85938	39 0.3	+2.9	-2 2.5	0.21120	114 27.2	-0.7	+1 41.0	
Juli 3.0	9.85857	55 3.2	+2.0	-1 12.8	0.21334	119 0.6	-0.6	+1 44.3	
13.0	9.85781	71 9.5	+0.5	-0 17.2	0.21525	123 31.5	-0.5	+1 47.0	
23.0	9.85717	87 19.0	-1.2	+0 39.9	0.21692	128 0.1	-0.3	+1 49.0	
Aug. 2.0	9.85670	103 31.1	-2.5	+1 34.0	0.21835	132 26.9	-0.2	+1 50.3	
12.0	9.85643	119 44.8	-3.0	+2 20.7	0.21952	136 52.0	-0.1	+1 50.9	
22.0	9.85640	135 59.2	-2.6	+2 56.3	0.22044	141 15.9	+0.1	+1 50.9	
Sept. 1.0	9.85660	152 13.2	-1.4	+3 17.8	0.22111	145 38.8	+0.2	+1 50.3	
11.0	9.85701	168 25.8	+0.2	+3 23.5	0.22151	150 1.0	+0.3	+1 49.0	
21.0	9.85760	184 36.1	+1.8	+3 13.0	0.22166	154 23.0	+0.5	+1 47.0	
Okt. 1.0	9.85833	200 43.5	+2.8	+2 47.4	0.22155	158 44.9	+0.6	+1 44.5	
11.0	9.85914	216 47.5	+2.9	+2 8.7	0.22118	163 7.1	+0.7	+1 41.3	
21.0	9.85995	232 47.8	+2.2	+1 20.2	0.22055	167 29.9	+0.8	+1 37.6	
31.0	9.86072	248 44.6	+0.8	+0 25.7	0.21966	171 53.6	+0.8	+1 33.2	
Nov. 10.0	9.86138	264 38.2	-0.9	-0 30.5	0.21852	176 18.5	+0.9	+1 28.3	
20.0	9.86188	280 29.3	-2.3	-1 24.3	0.21713	180 45.0	+0.9	+1 22.8	
30.0	9.86219	296 18.6	-3.0	-2 11.7	0.21550	185 13.4	+0.9	+1 16.8	
Dez. 10.0	9.86227	312 7.1	-2.8	-2 49.0	0.21362	189 43.9	+0.9	+1 10.2	
20.0	9.86213	327 55.7	-1.8	-3 13.6	0.21151	194 17.0	+0.8	+1 3.2	
30.0	9.86178	343 45.3	-0.2	-3 23.5	0.20918	198 52.8	+0.8	+0 55.7	
40.0	9.86124	359 36.9	+1.4	-3 17.9	0.20662	203 31.8	+0.7	+0 47.7	
$\delta = 76^\circ 0'.6; \quad i = 3^\circ 23'.63$					$\delta = 48^\circ 59'.1; \quad i = 1^\circ 51'.02$				
$m = \frac{1}{408000}$					$m = \frac{1}{3093500}$				

## Mittleres Äquinoktium 1925.0

Mittlere Zeit (Greenwich)	log $R$	Länge	log $r$	Länge in der Bahn	Red. auf d.Eklipt.	Breite	$B_0$
	<b>ERDE 1923</b>			<b>JUPITER 1923</b>			
1923							
Jan. - 6.0	9.99275	92° 57.8	0.735417	214° 5' 31.5	+20.2	+I II 30.8	+4.6
+ 4.0	9.99267	103 9.4	0.735317	214 51 7.7	+20.6	+I II 4.6	+4.6
14.0	9.99282	113 20.8	0.735213	215 36 45.1	+21.1	+I IO 37.6	+4.5
24.0	9.99318	123 31.5	0.735106	216 22 23.8	+21.5	+I IO 9.9	+4.5
Febr. 3.0	9.99376	133 40.9	0.734995	217 8 4.0	+22.0	+I 9 41.4	+4.5
13.0	9.99452	143 48.4	0.734880	217 53 45.6	+22.3	+I 9 12.2	+4.4
23.0	9.99545	153 53.5	0.734762	218 39 28.6	+22.7	+I 8 42.2	+4.4
März 5.0	9.99651	163 55.9	0.734640	219 25 13.2	+23.1	+I 8 11.5	+4.3
15.0	9.99767	173 55.2	0.734515	220 10 59.3	+23.5	+I 7 40.0	+4.3
25.0	9.99889	183 51.2	0.734386	220 56 47.0	+23.8	+I 7 7.8	+4.3
April 4.0	0.00014	193 43.8	0.734254	221 42 36.4	+24.1	+I 6 34.9	+4.2
14.0	0.00138	203 33.0	0.734118	222 28 27.4	+24.4	+I 6 1.3	+4.2
24.0	0.00257	213 18.9	0.733979	223 14 20.2	+24.7	+I 5 26.9	+4.2
Mai 4.0	0.00368	223 1.7	0.733836	224 0 14.8	+25.0	+I 4 51.8	+4.1
14.0	0.00468	232 41.7	0.733690	224 46 11.2	+25.3	+I 4 15.9	+4.1
24.0	0.00554	242 19.2	0.733540	225 32 9.5	+25.5	+I 3 39.4	+4.1
Juni 3.0	0.00624	251 54.6	0.733387	226 18 9.6	+25.7	+I 3 2.1	+4.0
13.0	0.00676	261 28.4	0.733231	227 4 11.7	+25.9	+I 2 24.1	+4.0
23.0	0.00709	271 1.1	0.733071	227 50 15.8	+26.1	+I 1 45.4	+4.0
Juli 3.0	0.00722	280 33.1	0.732908	228 36 22.0	+26.2	+I 1 6.1	+3.9
13.0	0.00714	290 5.1	0.732742	229 22 30.2	+26.4	+I 0 26.1	+3.9
23.0	0.00686	299 37.6	0.732573	230 8 40.6	+26.5	+0 59 45.4	+3.9
Aug. 2.0	0.00639	309 11.1	0.732400	230 54 53.1	+26.6	+0 59 4.0	+3.8
12.0	0.00573	318 46.1	0.732224	231 41 7.9	+26.7	+0 58 21.9	+3.8
22.0	0.00490	328 23.0	0.732045	232 27 24.9	+26.8	+0 57 39.2	+3.7
Sept. 1.0	0.00393	338 2.4	0.731863	233 13 44.2	+26.8	+0 56 55.8	+3.7
11.0	0.00284	347 44.5	0.731677	234 0 5.9	+26.8	+0 56 11.7	+3.6
21.0	0.00166	357 29.6	0.731489	234 46 29.9	+26.8	+0 55 27.0	+3.6
Okt. 1.0	0.00043	7 18.1	0.731297	235 32 56.4	+26.8	+0 54 41.6	+3.6
11.0	9.99918	17 9.9	0.731102	236 19 25.3	+26.8	+0 53 55.6	+3.5
21.0	9.99794	27 5.1	0.730904	237 5 56.8	+26.8	+0 53 9.0	+3.5
31.0	9.99676	37 3.6	0.730703	237 52 30.9	+26.7	+0 52 21.7	+3.4
Nov. 10.0	9.99567	47 5.3	0.730499	238 39 7.6	+26.6	+0 51 33.8	+3.4
20.0	9.99471	57 9.9	0.730293	239 25 46.9	+26.5	+0 50 45.2	+3.3
30.0	9.99390	67 16.9	0.730083	240 12 28.9	+26.4	+0 49 56.1	+3.3
Dez. 10.0	9.99328	77 25.9	0.729871	240 59 13.6	+26.2	+0 49 6.4	+3.2
20.0	9.99287	87 36.4	0.729655	241 46 1.1	+26.0	+0 48 16.1	+3.2
30.0	9.99267	97 47.8	0.729437	242 32 51.3	+25.8	+0 47 25.2	+3.1
40.0	9.99269	107 59.4	0.729216	243 19 44.4	+25.6	+0 46 33.7	+3.1
	$m = \frac{1}{329390}$		$\Omega = 99^\circ 41' 52''.2$ ;	$i = 1^\circ 18' 26''.4$ ;	$m = \frac{1}{1047.35}$		



Mittleres Äquinoktium 1925.0

Mittlere Zeit Greenwich	log $r$	Länge in der Bahn	Red. auf die Ekliptik	Breite	$B_0$
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SATURN 1923

1922 Nov. 25.0	0.982880	192° 26' 10.5	-35.2	+ 2° 26' 45.2	-11.2
1923 Jan. 4.0	0.983406	193 45 11.1	-31.0	+ 2 27 20.7	-11.2
Febr. 13.0	0.983927	195 4 0.3	-26.7	+ 2 27 51.5	-11.1
März 25.0	0.984445	196 22 38.3	-22.4	+ 2 28 17.6	-11.1
Mai 4.0	0.984959	197 41 5.1	-18.0	+ 2 28 39.0	-11.0
Juni 13.0	0.985468	198 59 20.8	-13.7	+ 2 28 55.7	-11.0
Juli 23.0	0.985973	200 17 25.5	- 9.3	+ 2 29 7.7	-10.9
Sept. 1.0	0.986473	201 35 19.3	- 4.9	+ 2 29 15.0	-10.9
Okt. 11.0	0.986967	202 53 2.4	- 0.4	+ 2 29 17.8	-10.8
Nov. 20.0	0.987456	204 10 34.9	+ 4.0	+ 2 29 16.0	-10.7
1923 Dez. 30.0	0.987940	205 27 56.9	+ 8.3	+ 2 29 9.7	-10.7
1924 Febr. 8.0	0.988419	206 45 8.6	+12.7	+ 2 28 58.9	-10.6

$$\Omega = 113^\circ 0' 20''.6; \quad i = 2^\circ 29' 28''.7; \quad m = \frac{1}{3501.6}$$

URANUS 1923

1922 Nov. 25.0	1.302872	342° 30' 49''.1	- 0.4	- 0° 46' 19.9	+ 1.6
1923 Jan. 4.0	1.302896	342 56 26.9	- 0.2	- 0 46 20.2	+ 1.6
Febr. 13.0	1.302919	343 22 4.7	- 0.1	- 0 46 20.4	+ 1.6
März 25.0	1.302940	343 47 42.4	0.0	- 0 46 20.4	+ 1.6
Mai 4.0	1.302961	344 13 20.2	+ 0.2	- 0 46 20.2	+ 1.6
Juni 13.0	1.302980	344 38 57.9	+ 0.3	- 0 46 19.9	+ 1.5
Juli 23.0	1.302998	345 4 35.7	+ 0.5	- 0 46 19.5	+ 1.5
Sept. 1.0	1.303016	345 30 13.6	+ 0.6	- 0 46 18.9	+ 1.5
Okt. 11.0	1.303032	345 55 51.4	+ 0.7	- 0 46 18.2	+ 1.5
Nov. 20.0	1.303047	346 21 29.3	+ 0.9	- 0 46 17.3	+ 1.4
1923 Dez. 30.0	1.303061	346 47 7.2	+ 1.0	- 0 46 16.3	+ 1.4
1924 Febr. 8.0	1.303074	347 12 45.2	+ 1.2	- 0 46 15.1	+ 1.4

$$\Omega = 73^\circ 37'; \quad i = 0^\circ 46' 22''; \quad m = \frac{1}{22869}$$

NEPTUN 1923

1922 Nov. 25.0	1.478287	136° 23' 24.3	- 9.3	+ 0° 10' 5.8	- 0.5
1923 Jan. 4.0	1.478298	136 37 45.8	- 9.8	+ 0 10 32.4	- 0.5
Febr. 13.0	1.478309	136 52 7.0	-10.2	+ 0 10 58.9	- 0.6
März 25.0	1.478320	137 6 28.0	-10.6	+ 0 11 25.5	- 0.6
Mai 4.0	1.478331	137 20 48.9	-11.0	+ 0 11 52.0	- 0.6
Juni 13.0	1.478343	137 35 9.6	-11.4	+ 0 12 18.5	- 0.6
Juli 23.0	1.478354	137 49 30.2	-11.8	+ 0 12 45.0	- 0.6
Sept. 1.0	1.478365	138 3 50.5	-12.2	+ 0 13 11.5	- 0.6
Okt. 11.0	1.478376	138 18 10.8	-12.6	+ 0 13 37.9	- 0.6
Nov. 20.0	1.478387	138 32 30.8	-13.0	+ 0 14 4.3	- 0.7
1923 Dez. 30.0	1.478399	138 46 50.7	-13.4	+ 0 14 30.7	- 0.7
1924 Febr. 8.0	1.478410	139 1 10.5	-13.8	+ 0 14 57.1	- 0.7

$$\Omega = 130^\circ 57'; \quad i = 1^\circ 46' 37''; \quad m = \frac{1}{19314}$$

# Mittlere und Scheinbare Sternörter 1923

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Reduktionsgrößen

Nr.	Name	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in o".0001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in o".001
1	$\alpha$ Androm.	2.1	A	<sup>h</sup> 4 <sup>m</sup> 24.209	+3.0974	+ 107	+28° 39 55.25	+19.880	- 161
2	$\beta$ Cassiopeiae	2.2	F 5	0 5 3.493	+3.1889	+ 676	+58 43 30.28	+19.861	- 180
3	$\varepsilon$ Phoenicis	3.8	K	0 5 30.378	+3.0492	+ 99	-46 10 20.72	+19.847	- 192
4	[22 Androm.]	5.2	F	0 6 18.699	+3.1112	+ 8	+45 38 37.48	+20.035	- 3
5	[ $\alpha^2$ Sculptoris]	5.5	K	0 7 39.959	+3.0491	+ 4	-28 13 43.70	+20.040	+ 6
6	[ $\theta$ Sculptoris]	5.3	F 5 p	0 7 49.206	+3.0505	+ 104	-35 33 51.09	+20.157	+ 124
7	$\gamma$ Pegasi	2.7	B 2	0 9 16.096	+3.0870	+ 1	+14 45 19.64	+20.015	- 14
8	[Br. 6]	6.5	A	0 11 50.261	+3.3674	+ 67	+76 31 22.72	+20.020	+ 2
9	$\iota$ Ceti	3.5	K	0 15 30.285	+3.0566	- 15	- 9 15 2.68	+19.967	- 32
10	$\zeta$ Tucanae	4.2	F 8	0 16 4.080	+3.1389	+2700	-65 19 38.62	+21.150	+1154
11	$\beta$ Hydri	2.8	G	0 21 43.804	+3.1894	+6963	-77 41 16.34	+20.273	+ 318
12	$\alpha$ Phoenicis	2.3	K	0 22 28.825	+2.9687	+ 168	-42 43 27.35	+19.540	- 409
13	$\iota$ Ceti	6.1	K	0 26 6.552	+3.0619	+ 8	- 4 22 57.60	+19.907	- 8
14	[Ceti 49 G.]	5.3	A 5	0 26 31.750	+3.0008	- 25	-24 12 49.10	+19.920	+ 9
15	[ $\lambda^1$ Phoenicis]	4.7	A 2	0 27 42.284	+2.8981	+ 123	-49 13 45.71	+19.911	+ 12
16	[ $\alpha$ Cassiop.]	4.2	B	0 28 36.580	+3.3936	+ 11	+62 30 25.27	+19.892	+ 3
17	$\zeta$ Cassiopeiae	3.8	B 2	0 32 40.285	+3.3315	+ 23	+53 28 23.97	+19.835	- 7
18	$\pi$ Androm.	4.2	B 3	0 32 45.796	+3.1995	+ 17	+33 17 44.36	+19.841	0
19	[ $\varepsilon$ Androm.]	4.3	G 5	0 34 28.927	+3.1660	- 173	+28 53 37.89	+19.568	- 251
20	$\delta$ Androm.	3.2	K	0 35 12.334	+3.2035	+ 106	+30 26 23.58	+19.725	- 84
21	$\alpha$ Cassiopeiae	(2.2)	K	0 36 7.575	+3.3911	+ 60	+56 6 54.99	+19.767	- 29
22	$\beta$ Ceti	2.2	K	0 39 43.504	+3.0121	+ 160	-18 24 32.62	+19.783	+ 39
23	[ $\eta$ Phoenicis]	4.3	A	0 39 53.987	+2.7045	+ 5	-57 53 7.59	+19.734	- 8
25	$\sigma$ Cassiopeiae	4.7	B 2	0 40 25.562	+3.3341	+ 22	+47 51 47.33	+19.726	- 8
26	[ $\lambda^2$ Sculptoris]	5.9	K 5	0 40 28.766	+2.9014	+ 178	-38 50 45.04	+19.848	+ 115
24	$\alpha$ Cassiopeiae	5.8	A 2	0 40 31.949	+3.9187	- 57	+74 34 2.69	+19.709	- 23
27	$\zeta$ Androm.	4.1	K	0 43 15.183	+3.1761	- 75	+23 50 54.67	+19.611	- 79
28	[ $\delta$ Piscium]	4.4	K 5	0 44 41.117	+3.1105	+ 52	+ 7 9 58.47	+19.620	- 46
31	[ $\lambda$ Hydri]	5.3	K 5	0 45 55.663	+2.0956	+ 399	-75 20 32.84	+19.617	- 26
29	[Br. 82]	5.7	F	0 46 2.360	+3.6212	+ 59	+63 49 43.14	+19.638	- 5
30	[19 Ceti]	5.4	F	0 46 16.191	+3.0045	- 159	-11 3 31.59	+19.415	- 223
32	$\gamma$ Cassiopeiae	2.0	B p	0 52 2.825	+3.6040	+ 37	+60 18 0.30	+19.526	- 4
34	[ $\lambda^2$ Tucanae]	5.3	G 5	0 52 7.800	+2.2441	- 33	-69 56 36.04	+19.484	- 45
33	$\mu$ Androm.	3.9	A 2	0 52 28.371	+3.3233	+ 129	+38 4 55.27	+19.558	+ 36
35	$\alpha$ Sculptoris	4.1	B 5	0 54 53.762	+2.8909	- 5	-29 46 24.56	+19.468	- 5
36	$\varepsilon$ Piscium	4.2	G 5	0 58 56.687	+3.1118	- 55	+ 7 28 33.35	+19.416	+ 30
37	[26 Ceti]	6.2	A	0 59 51.182	+3.0866	+ 81	+ 0 57 15.75	+19.326	- 39
38	$\beta$ Phoenicis	3.2	K	1 2 38.913	+2.6785	- 56	-47 7 51.65	+19.285	- 15
39	[ $\iota$ Tucanae]	5.5	K	1 4 15.878	+2.3818	+ 100	-62 11 10.62	+19.258	- 4
40	[ $\gamma$ Ceti]	3.3	K	1 4 42.926	+3.0169	+ 138	-10 35 24.41	+19.120	- 132



Nr.	Name	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0°.0001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0°.001
42	$\beta$ Androm.	2.1	Ma	1 <sup>h</sup> 5 <sup>m</sup> 24.888	+3.3534	+ 151	+35° 12' 45.79	+19.122	-113
41	[44 H. Cephei]	5.7	A	1 5 33.509	+5.0948	+ 333	+79 15 53.00	+19.239	+ 9
43	[ $\tau$ Piscium]	4.3	Kp	1 7 24.868	+3.2991	+ 56	+29 40 52.02	+19.143	- 41
44	[Sculpt. 102 G.]	6.0	A 2	1 9 12.549	+2.7631	+ 39	-38 15 51.32	+19.111	- 27
45	$\nu$ Piscium	4.6	A 2	1 15 13.751	+3.2924	+ 15	+26 51 35.04	+18.964	- 11
47	$\theta$ Ceti	3.4	K	1 20 10.440	+2.9981	- 55	- 8 34 49.06	+18.617	-214
46	[ $\psi$ Cassiop.]	5.0	K	1 20 28.217	+4.2085	+ 135	+67 43 43.44	+18.854	+ 33
48	$\delta$ Cassiopeiae	2.7	A 5	1 20 45.810	+3.9062	+ 398	+59 50 8.36	+18.770	- 43
49	[ $\gamma$ Phoenicis]	3.2	K 5	1 25 1.310	+2.6058	- 38	-43 42 44.95	+18.464	-218
50	$\eta$ Piscium	3.6	G 5	1 27 21.574	+3.2070	+ 15	+14 56 57.38	+18.599	- 7
51	40 Cassiopeiae	5.5	K	1 32 19.678	+4.7476	- 19	+72 38 54.04	+18.434	- 6
53	[Hydri 14 G.]	6.3	G 2	1 33 7.475	+0.3748	- 70	-78 53 44.22	+18.285	-128
52	$\nu$ Persei	3.6	K	1 33 15.361	+3.6714	+ 64	+48 14 19.10	+18.295	-113
54	$\alpha$ Eridani	1	B 5	1 34 50.949	+2.2372	+ 122	-57 37 39.52	+18.315	- 38
55	43 Cassiopeiae	5.9	Ap	1 36 36.814	+4.4118	+ 88	+67 39 15.56	+18.288	- 2
56	[ $\nu$ Piscium]	4.5	K	1 37 25.324	+3.1203	- 17	+ 5 5 54.26	+18.263	+ 2
58	[Sculpt. 129 G.]	5.8	A	1 38 39.288	+2.6434	- 58	-37 13 13.38	+18.193	- 23
57	$\varphi$ Persei	4.1	Bp	1 38 49.412	+3.7481	+ 26	+50 18 5.15	+18.196	- 15
59	$\tau$ Ceti	3.4	K	1 40 29.443	+2.7869	-1195	-16 20 33.37	+19.001	+852
60	$\rho$ Piscium	4.3	G 5	1 41 19.493	+3.1656	+ 47	+ 8 46 14.58	+18.168	+ 50
61	Lac. $\varepsilon$ Sculpt.	5.3	A	1 42 2.332	+2.8090	+ 99	-25 26 14.13	+18.016	- 75
62	$\zeta$ Ceti	3.5	K	1 47 39.527	+2.9605	+ 22	-10 42 53.84	+17.840	- 34
64	$\alpha$ Trianguli	3.5	F 5	1 48 41.210	+3.4150	+ 11	+29 12 15.55	+17.600	-233
63	$\varepsilon$ Cassiopeiae	3.3	B 5	1 48 50.184	+4.2922	+ 50	+63 17 30.02	+17.812	- 15
65	$\xi$ Piscium	4.6	K	1 49 34.035	+3.1042	+ 13	+ 2 48 28.37	+17.817	+ 19
66	$\beta$ Arietis	2.7	A 5	1 50 22.918	+3.3099	+ 65	+20 25 56.04	+17.656	-109
67	$\psi$ Phoenicis	4.5	Mb	1 50 33.592	+2.4059	- 95	-46 40 46.43	+17.656	-101
68	$\gamma$ Eridani	3.6	G 5	1 52 57.666	+2.3349	+ 712	-51 59 31.32	+17.929	+270
69	[ $\eta$ Hydri]	4.7	K	1 52 58.876	+1.5174	+ 119	-68 1 32.79	+17.738	+ 79
72	$\alpha$ Hydri	2.9	F	1 56 20.580	+1.8900	+ 361	-61 56 39.31	+17.538	+ 21
71	$\nu$ Ceti	3.9	Ma	1 56 22.613	+2.8265	+ 91	-21 27 1.34	+17.502	- 14
70	50 Cassiopeiae	4.0	A	1 56 49.446	+5.0764	- 91	+72 2 58.78	+17.521	+ 25
73	$\gamma$ Androm.	2.1	Kp	1 59 9.881	+3.6740	+ 43	+41 57 39.19	+17.343	- 54
74	$\alpha$ Arietis	2.0	K 2	2 2 49.675	+3.3775	+ 137	+23 5 56.58	+17.092	-143
75	$\beta$ Trianguli	3.0	A 5	2 4 57.310	+3.5635	+ 122	+34 37 25.66	+17.099	- 40
76	55 Cassiopeiae	6.3	F	2 8 25.017	+4.6792	- 10	+66 9 52.28	+16.982	+ 3
77	[6 Persei]	5.7	G 5	2 8 28.393	+3.9778	+ 368	+50 42 32.05	+16.808	-169
78	Lac. $\mu$ Forn.	5.2	A	2 9 31.062	+2.6426	+ 13	-31 5 4.40	+16.930	+ 2
79	[ $\gamma$ Trianguli]	4.2	A	2 12 43.824	+3.5604	+ 37	+33 29 30.85	+16.733	- 44
80	67 Ceti	5.7	A	2 13 8.483	+2.9911	+ 55	- 6 46 35.01	+16.647	-110

Nr.	N a m e	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0°.0001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0°.001
82	[ $\zeta$ Eridani]	3.5	B 8	2 <sup>h</sup> 13 <sup>m</sup> 45.472	+2.1428	+ 81	-51° 52' 5.83	+16.691	- 36
81	[ $\theta$ Arietis]	5.7	A	2 13 50.308	+3.3334	- 10	+19 32 44.32	+16.722	- 2
83	[ $\alpha$ Fornacis]	5.4	F	2 19 1.147	+2.7451	+ 142	-24 9 56.48	+16.406	- 63
84	[ $\lambda$ Horologii]	5.5	F	2 22 44.682	+1.6767	- 95	-60 39 22.66	+16.144	-137
85	$\xi^2$ Ceti	4.2	A	2 24 3.742	+3.1874	+ 26	+ 8 6 56.37	+16.209	- 4
86	[ $\alpha$ Eridani]	4.1	B 5	2 24 9.690	+2.1979	- 2	-48 2 56.83	+16.186	- 23
88	[ $\lambda$ Fornacis]	6.0	K	2 29 54.282	+2.4994	- 43	-34 59 17.71	+15.876	- 32
87	36 H. Cassiop.	5.4	K	2 30 40.467	+5.6540	- 60	+72 28 58.25	+15.888	+ 21
90	$\nu$ Hydri	5.5	K	2 33 15.925	-1.3268	+ 471	-79 26 43.75	+15.694	- 33
89	$\nu$ Arietis	5.6	A	2 34 26.372	+3.4025	- 9	+21 37 45.36	+15.648	- 16
91	$\delta$ Ceti	3.9	B 2	2 35 32.022	+3.0734	+ 7	- 0 0 10.53	+15.602	- 2
92	[Br. 366]	6.3	A	2 38 10.562	+5.1292	+ 25	+67 29 55.47	+15.428	- 29
95	[ $\epsilon$ Hydri]	4.0	B 9	2 38 23.955	+0.9164	+ 168	-68 35 48.03	+15.450	+ 5
94	[ $\xi$ Arietis]	4.7	B 8	2 38 55.682	+3.5156	+ 4	+27 22 49.41	+15.409	- 7
93	$\theta$ Persei	4.1	G	2 38 55.830	+4.0867	+ 346	+48 54 13.51	+15.327	- 88
96	[ $\gamma$ Ceti]	3.4	A	2 39 18.507	+3.1065	- 98	+ 2 54 43.40	+15.246	-148
97	$\pi$ Ceti	4.0	B 5	2 40 27.426	+2.8543	- 8	-14 11 2.64	+15.321	- 9
98	$\mu$ Ceti	4.2	A 5	2 40 46.598	+3.2404	+ 189	+ 9 47 23.40	+15.281	- 31
99	[ $\eta$ Persei]	3.8	K	2 45 4.019	+4.3616	+ 28	+55 34 37.35	+15.056	- 11
100	41 Arietis	3.6	B 8	2 45 26.786	+3.5267	+ 51	+26 56 38.57	+14.932	-113
101	$\beta$ Fornacis	4.4	K	2 45 52.044	+2.5103	+ 63	-32 43 43.19	+15.179	+159
102	$\tau^2$ Eridani	4.8	K	2 47 32.721	+2.7206	- 39	-21 19 15.15	+14.894	- 29
103	$\tau$ Persei	4.0	G p	2 48 47.212	+4.2406	+ 3	+52 26 54.45	+14.848	- 2
104	$\gamma$ Eridani	3.7	K	2 52 39.873	+2.9298	+ 52	- 9 12 13.90	+14.402	-218
106	$\theta$ Eridani	2.9	A 2	2 55 20.386	+2.2723	- 67	-40 36 45.14	+14.487	+ 28
105	47 H. Cephei	5.8	K 5	2 55 46.754	+7.8847	- 113	+79 6 59.83	+14.455	+ 22
107	$\alpha$ Ceti	2.5	M a	2 58 15.113	+3.1340	- 9	+ 3 47 18.53	+14.205	- 76
108	$\gamma$ Persei	3.0	G p	2 59 12.472	+4.3320	+ 2	+53 12 21.79	+14.219	- 4
109	$\rho$ Persei	(3.8)	M b	3 0 14.123	+3.8378	+ 114	+38 32 34.72	+14.056	-103
110	$\mu$ Horologii	5.1	F	3 1 47.715	+1.4092	- 117	-60 2 9.90	+13.994	- 68
113	[ $\theta$ Hydri]	5.7	A	3 2 5.054	+0.1076	+ 51	-72 12 11.04	+14.067	+ 22
111	$\beta$ Persei	(2.2)	B 8	3 3 9.094	+3.8962	+ 7	+40 39 36.31	+13.977	- 1
112	[ $\iota$ Persei]	4.1	G	3 3 29.996	+4.3184	+1296	+49 19 13.07	+13.873	- 82
114	$\delta$ Arietis	4.3	K	3 7 13.326	+3.4271	+ 106	+19 26 11.33	+13.717	- 4
117	12 Eridani	3.6	F 8	3 8 47.928	+2.5469	+ 241	-29 17 23.73	+14.263	+644
116	[94 Ceti]	5.2	F $\alpha$	3 8 50.584	+3.0610	+ 136	- 1 28 59.71	+13.555	- 61
115	48 H. Cephei	5.9	A	3 10 29.308	+7.5270	+ 183	+77 27 14.83	+13.467	- 44
118	[Horol. 38 G.]	6.1	N	3 10 35.884	+1.5155	- 5	-57 36 34.59	+13.497	- 6
119	[ $\epsilon$ Eridani]	4.2	G 5	3 16 51.189	+2.3957	+2786	-43 21 49.63	+13.827	+733
120	$\nu$ Persei	1.9	F 5	3 18 48.953	+4.2728	+ 29	+49 35 18.07	+12.938	- 26

Nr.	Name	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
121	♄ Tauri	3.6	G 5	3 <sup>a</sup> 20 <sup>m</sup> 40.021	+3.2265	- 44	+ 8° 45' 31.72	+12.764	- 76
122	2 H. Camelop.	4.4	B 9	3 22 49.144	+4.8406	- 1	+59 40 24.62	+12.701	+ 6
123	[♄ Tauri]	3.6	B 8	3 22 59.600	+3.2492	+ 39	+ 9 27 54.26	+12.638	- 45
124	[♄ Persei]	4.8	K	3 25 8.238	+4.2208	+ 9	+47 43 50.47	+12.561	+ 23
125	♄ Tauri	4.1	K	3 26 37.135	+3.3097	+ 13	+12 40 25.38	+12.431	- 4
126	[α Retiuli]	4.8	F 5	3 28 1.550	+1.0386	+514	- 63 12 31.51	+12.700	+361
127	ε Eridani	3.5	K	3 29 18.107	+2.8259	-658	- 9 43 5.27	+12.264	+ 13
128	[Horol. 45 G.]	5.8	K	3 30 16.736	+1.7839	+ 48	-50 38 21.73	+12.264	+ 80
130	[γ Eridani]	4.5	K	3 34 19.826	+2.1518	- 16	-40 31 35.57	+11.876	- 24
129	[Gr. 716]	5.4	M b	3 35 27.412	+5.1860	- 21	+62 58 7.54	+11.843	+ 22
131	♄ Persei	3.0	B 5	3 37 26.065	+4.2630	+ 33	+47 32 33.52	+11.646	- 35
133	[δ Fornacis]	4.9	B 5	3 39 11.096	+2.3851	- 5	-32 11 1.34	+11.563	+ 7
132	[♄ Persei]	3.9	B 1	3 39 29.114	+3.7577	+ 8	+32 2 43.47	+11.518	- 17
135	[δ Eridani]	3.4	K	3 39 33.500	+2.8731	- 64	-10 1 23.30	+12.276	+747
134	♄ Persei	3.9	F 5	3 39 57.369	+4.0693	- 6	+42 20 11.58	+11.496	- 5
136	[17 Tauri]	4.0	B 5	3 40 17.955	+3.5593	+ 17	+23 52 20.53	+11.432	- 44
137	[24 Eridani]	5.4	B 8	3 40 35.742	+3.0460	+ 1	- 1 24 18.29	+11.446	- 8
138	5 H. Camelop.	4.5	A	3 42 12.102	+6.2949	+ 42	+71 5 49.12	+11.299	- 40
139	♄ Tauri	3.0	B 5	3 42 54.219	+3.5631	+ 18	+23 52 5.25	+11.241	- 48
141	β Retiuli	3.8	K	3 43 13.699	+0.7448	+477	-65 2 56.92	+11.327	+ 62
140	ε Eridani	4.1	F 8	3 43 32.041	+2.5799	-123	-23 28 34.62	+10.724	-519
142	[27 Tauri]	3.8	B 8 p	3 44 34.789	+3.5641	+ 14	+23 49 8.72	+11.122	- 45
143	γ Eridani	4.1	K	3 46 34.341	+2.2449	- 40	-36 25 57.91	+10.970	- 52
146	γ Hydri	3.1	M a	3 48 24.852	-0.9541	+123	-74 28 31.42	+10.996	+109
144	♄ Persei	2.9	B 1	3 49 17.244	+3.7672	+ 11	+31 39 22.18	+10.812	- 11
145	9 H. Camelop.	5.5	K	3 50 33.469	+5.0993	- 3	+60 53 5.52	+10.712	- 16
147	ε Persei	3.0	B	3 52 40.858	+4.0206	+ 23	+39 47 19.36	+10.543	- 29
148	ξ Persei	4.0	0e 5	3 53 57.846	+3.8886	+ 10	+35 34 14.90	+10.468	- 8
149	γ Eridani	3.0	K 5	3 54 26.149	+2.7984	+ 42	-13 43 36.17	+10.329	-112
150	λ Tauri	(3.5)	B 3	3 56 24.693	+3.3218	- 5	+12 16 25.77	+10.280	- 13
151	♄ Tauri	3.9	A	3 59 3.497	+3.1900	+ 4	+ 5 46 35.85	+10.084	- 10
153	[Erid. 174 G.]	5.7	A 8	4 2 26.963	+2.4721	+148	-27 51 41.96	+ 9.944	+108
152	ε Persei	4.0	B 3 p	4 3 3.886	+4.3491	+ 33	+47 30 29.95	+ 9.757	- 32
154	♄ Eridani	4.1	F 5	4 8 6.344	+2.9278	+ 8	- 7 2 14.70	+ 9.484	+ 82
155	α Horologii	3.7	K	4 11 26.878	+1.9857	+ 20	-42 29 1.23	+ 8.924	-219
156	α Retiuli	3.2	G 5	4 13 25.694	+0.7670	+ 50	-62 39 58.59	+ 9.036	+ 47
157	[γ Doradus]	4.2	F 5	4 14 0.360	+1.5684	+ 88	-51 40 49.60	+ 9.115	+172
160	♄ Eridani	3.3	B 9	4 14 58.726	+2.2685	+ 37	-33 59 8.31	+ 8.855	- 12
158	[54 Persei]	5.3	G 5	4 15 24.380	+3.8916	- 20	+34 22 55.69	+ 8.828	- 6
159	[7 Tauri]	3.7	G	4 15 24.533	+3.4123	+ 82	+15 26 33.98	+ 8.805	- 29



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161	[Erid. 212 G.]	5.4	A	4 17 <sup>h</sup> 17.501	+2.6183	+ 36	-20 49 19.90	+8.701	+ 15
162	δ Tauri	3.8	K	4 18 29.502	+3.4581	+ 78	+17 21 47.03	+8.560	- 31
163	[η Reticuli]	5.3	G 5	4 21 3.139	+0.6438	+127	-63 34 8.52	+8.548	+160
166	[δ Mensae]	5.8	K	4 23 8.453	-4.1196	+ 98	-80 23 44.07	+8.293	+ 71
164	ε Tauri	3.5	K	4 24 7.084	+3.5015	+ 80	+19 0 39.10	+8.108	- 35
165	[I Camel. seq.]	6.3	B I	4 25 55.442	+4.7442	+ 7	+53 44 42.31	+8.000	0
167	[δ Caeli]	5.2	B 3	4 28 28.507	+1.8359	- 6	-45 7 6.73	+7.777	- 17
168	α Tauri	1	K 5	4 31 30.004	+3.4409	+ 49	+16 21 20.44	+7.361	-189
171	α Doradus	3.2	A p	4 32 19.943	+1.2959	+ 71	-55 12 12.73	+7.485	+ 3
169	ν Eridani	3.8	B 2	4 32 28.226	+2.9970	+ 2	- 3 30 31.96	+7.466	- 4
170	[ν <sup>2</sup> Eridani]	3.5	K	4 32 33.346	+2.3312	- 46	-30 43 8.71	+7.458	- 6
172	53 Eridani	3.9	K	4 34 39.169	+2.7465	- 54	-14 27 13.22	+7.129	-164
174	τ Tauri	4.2	A	4 37 37.277	+3.5994	+ 5	+22 48 37.59	+7.032	- 19
173	Gr. 848	6.2	A	4 38 26.534	+8.0350	+106	+75 48 13.84	+6.850	-134
175	4 Camelop.	5.5	A	4 41 34.900	+4.9896	+ 61	+56 37 19.78	+6.580	-146
176	[α Eridani]	3.8	B 5	4 41 39.082	+2.9994	+ 13	- 3 23 41.13	+6.708	- 12
177	[9 Mensae]	5.5	A	4 43 49.583	-0.6092	+ 17	-71 4 20.69	+6.569	+ 28
178	9 Camelop.	4.3	B	4 46 22.978	+5.9500	+ 5	+66 12 50.54	+6.338	+ 10
179	[π <sup>2</sup> Orionis]	3.7	B 3	4 47 6.213	+3.1944	0	+ 5 28 28.09	+6.262	- 7
180	π <sup>3</sup> Orionis	3.7	B 3	4 50 14.344	+3.1242	- 2	+ 2 18 56.29	+6.005	- 3
181	ι Aurigae	2.7	K 2	4 51 58.593	+3.9051	+ 10	+33 2 44.01	+5.843	- 20
183	ε Aurigae	(3.2)	F 5 p	4 56 26.389	+4.3021	+ 6	+43 42 38.96	+5.475	- 14
182	10 Camelop.	4.1	G	4 56 33.671	+5.3293	- 1	+60 19 53.86	+5.467	- 12
184	ι Tauri	4.8	A 5	4 58 29.495	+3.5852	+ 53	+21 28 52.54	+5.273	- 43
185	η Aurigae	3.3	B 3	5 1 6.720	+4.2048	+ 33	+41 7 54.54	+5.023	- 71
186	ε Leporis	3.2	K 5	5 2 12.063	+2.5394	+ 20	-22 28 24.70	+4.934	- 68
187	[γ <sup>2</sup> Pictoris]	5.1	K 5	5 2 58.115	+1.5501	+ 35	-49 40 53.16	+4.943	+ 6
188	β Eridani	2.7	A 2	5 4 3.816	+2.9492	- 59	- 5 11 5.73	+4.765	- 79
189	[ζ Doradus]	4.7	F 8	5 4 11.210	+1.0239	- 71	-57 34 39.30	+4.937	+103
190	[λ Eridani]	4.2	B 2	5 5 27.650	+2.8708	+ 3	- 8 51 6.47	+4.721	- 4
192	μ Aurigae	5.1	A 3	5 8 9.393	+4.1035	- 13	+38 23 41.02	+4.417	- 79
191	19 II. Camelop.	5.1	F 8	5 9 50.037	+9.8450	-313	+79 8 46.71	+4.514	+160
194	β Orionis	1	B 8 p	5 10 50.186	+2.8827	+ 2	- 8 17 22.38	+4.267	0
193	α Aurigae	1	G	5 10 59.871	+4.4298	+ 85	+45 55 16.61	+3.826	-428
196	θ Doradus	4.8	K	5 13 48.736	-0.0514	+ 14	-67 16 18.96	+4.051	+ 39
195	[τ Orionis]	3.7	B 5	5 13 52.002	+2.9126	- 12	- 6 55 35.61	+4.001	- 7
197	[ο Columbae]	4.9	K	5 14 42.378	+2.1626	+ 63	-34 58 10.55	+3.607	-329
198	[Columb. 12 G.]	6.0	A	5 16 19.539	+2.3920	+ 8	-27 26 49.87	+3.786	- 11
199	[ζ Pictoris]	5.6	F 5	5 17 28.680	+1.4697	+ 9	-50 41 17.43	+3.925	+227
200	[η Orion. m.]	3.3	B I	5 20 36.307	+3.0165	+ 5	- 2 28 0.72	+3.430	+ 1

Nr.	Name	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0 <sup>m</sup> .0001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0 <sup>m</sup> .001
201	γ Orionis	1.7	B 2	<sup>h</sup> 21 <sup>m</sup> 0.018	+3.2175	— 3	+ 6° 16' 51.62	+3.374	— 20
202	β Tauri	1.8	B 8	5 21 25.383	+3.7919	+ 25	+28 32 37.67	+3.181	—177
203	17 Camelop.	5.9	M a	5 22 53.532	+5.6613	— 3	+63 0 17.87	+3.230	— 1
204	[β Leporis]	2.9	G	5 24 56.767	+2.5710	+ 4	—20 49 11.90	+2.961	— 93
206	δ Orionis	2.2	B	5 28 4.310	+3.0646	0	— 0 21 18.11	+2.782	— 2
207	α Leporis	2.6	F	5 29 20.011	+2.6458	+ 2	—17 52 35.27	+2.676	+ 2
205	Gr. 966	6.6	F	5 29 25.099	+8.0133	— 8	+74 59 44.70	+2.686	+ 20
208	[ψ <sup>1</sup> Orionis]	4.6	B	5 30 35.547	+3.2930	— 1	+ 9 26 18.77	+2.555	— 10
209	ι Orionis	2.8	Oe 5	5 31 39.964	+2.9348	+ 4	— 5 57 33.98	+2.468	— 4
210	ε Orionis	1.6	B	5 32 18.332	+3.0439	+ 1	— 1 15 0.06	+2.413	— 3
212	β Doradus	3.7	F 5	5 32 57.281	+0.5179	— 13	—62 32 24.03	+2.358	— 2
211	ζ Tauri	3.0	B 3	5 33 2.521	+3.5853	+ 6	+21 5 48.67	+2.327	— 26
213	[σ Orionis]	3.8	B	5 34 52.791	+3.0115	0	— 2 38 36.35	+2.192	— 1
214	[γ Mensae]	5.3	K	5 34 55.404	—2.3884	+281	—76 23 47.87	+2.487	+298
215	α Columbae	2.4	B 5 p	5 36 51.581	+2.1720	— 1	—34 6 52.10	+1.983	— 37
216	ο Aurigae	5.7	A	5 39 56.033	+4.6471	— 6	+49 47 39.28	+1.744	— 9
217	[γ Leporis]	3.8	F 8	5 41 15.213	+2.5017	—201	—22 28 21.53	+1.262	—376
218	[130 Tauri]	5.8	A	5 42 56.801	+3.4985	+ 4	+17 42 5.63	+1.484	— 6
219	ζ Leporis	3.5	A 2	5 43 27.957	+2.7182	— 12	—14 50 58.74	+1.443	— 2
220	κ Orionis	2.1	B	5 44 6.251	+2.8454	+ 4	— 9 41 45.39	+1.386	— 3
221	[ν Aurigae]	3.9	K	5 46 9.127	+4.1575	— 4	+39 7 38.99	+1.222	+ 11
222	[δ Leporis]	3.8	K	5 48 0.577	+2.5801	+165	—20 53 5.05	+0.396	—653
223	[β Columbae]	2.9	K	5 48 14.641	+2.1137	+ 34	—35 47 47.19	+1.431	+404
224	α Orionis	1	M a	5 51 0.159	+3.2481	+ 20	+ 7 23 38.27	+0.800	+ 13
226	[η Leporis]	3.6	F 5	5 52 53.853	+2.7326	— 27	—14 10 50.69	+0.761	+140
225	δ Aurigae	3.8	K	5 53 11.206	+4.9403	+100	+54 16 50.30	+0.474	—122
227	β Aurigae	1.9	A p	5 53 52.841	+4.4017	— 42	+44 56 28.26	+0.528	— 8
228	θ Aurigae	2.7	A p	5 54 28.237	+4.0920	+ 49	+37 12 31.13	+0.396	— 87
229	η Columbae	3.9	K	5 56 47.383	+1.8368	+ 22	—42 49 8.18	+0.247	— 34
230	[66 Orionis]	5.9	K	6 0 54.224	+3.1695	— 6	+ 4 9 50.64	—0.094	— 15
231	[Puppis I G.]	5.8	F 5 p	6 2 15.427	+1.7266	— 83	—45 2 8.51	+0.035	+232
232	ν Orionis	4.4	B 2	6 3 10.546	+3.4264	+ 11	+14 46 43.69	—0.309	— 31
233	[36 Camelop.]	5.6	K	6 5 6.260	+6.0362	— 5	+65 44 9.35	—0.475	— 29
235	[δ Pictoris]	5.0	B 1	6 8 47.854	+1.1669	— 22	—54 57 3.99	—0.777	— 7
236	γ Geminor.	3.3	M a	6 10 13.800	+3.6224	— 42	+22 31 49.74	—0.908	— 13
234	22 H. Camelop.	4.6	A	6 10 21.885	+6.6165	+ 16	+69 20 57.98	—1.008	—102
239	[κ Mensae]	5.1	K	6 12 31.859	—1.7903	+236	—74 43 38.52	—1.321	—226
237	[2 Lyncis]	4.4	A	6 12 49.858	+5.2962	— 7	+59 2 26.87	—1.092	+ 29
238	[κ Columbae]	4.4	K	6 13 48.737	+2.1342	— 6	—35 6 51.06	—1.133	+ 74
240	ζ Canis maj.	2.9	B 3	6 17 21.391	+2.3028	+ 2	—30 1 41.75	—1.513	+ 4

Nr.	Name	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in o".0001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in o".001
241	$\mu$ Geminor.	2.9	Ma	6 <sup>h</sup> 18 <sup>m</sup> 18.170	+ 3.6308	+ 48	+22° 33' 16.13	-1.710	- III
242	$\psi^1$ Aurigae	5.1	K	6 18 58.190	+ 4.6235	+ 9	+49 19 14.11	-1.660	- 3
243	$\beta$ Canis maj.	2.0	B 1	6 19 18.504	+ 2.6418	- 4	-17 55 0.08	-1.685	+ 2
244	$\delta$ Monocer.	4.5	A 5	6 19 41.290	+ 3.1800	- 7	+ 4 37 59.10	-1.716	+ 4
245	$\alpha$ Argus	1	F	6 22 14.482	+ 1.3314	+ 16	-52 39 11.27	-1.931	+ 11
246	$\iota$ Monocer.	5.0	B 3	6 24 9.438	+ 2.9630	- 2	- 4 42 48.47	-2.104	+ 5
247	$\delta$ Lynceis	6.3	F	6 30 39.444	+ 5.4887	-284	+61 33 2.95	-2.950	- 277
249	$\eta$ Canis maj.	4.6	A	6 31 49.727	+ 2.5142	+ 5	-22 54 10.38	-2.762	+ 13
248	$\nu$ H. Camelop.	5.6	F 8	6 33 7.259	+10.2860	-285	+79 39 5.22	-3.509	- 622
251	$\gamma$ Geminor.	2.0	A	6 33 15.864	+ 3.4670	+ 34	+16 27 58.50	-2.945	- 46
250	$\epsilon$ Aurigae	6.1	K	6 33 19.491	+ 4.1594	- 18	+39 27 36.68	-3.019	- 114
252	$\nu$ Argus	3.1	B 8	6 35 24.286	+ 1.8355	- 4	-43 7 40.38	-3.104	- 20
253	$\delta$ Monocer.	(4.4)	Oe 5	6 36 44.295	+ 3.3052	+ 6	+ 9 58 5.38	-3.205	- 5
254	$\epsilon$ Geminor.	3.1	G 5	6 39 11.770	+ 3.6930	+ 3	+25 12 31.37	-3.426	- 15
256	$\zeta$ Geminor.	3.4	F 5	6 40 58.110	+ 3.3684	- 75	+12 58 47.23	-3.763	- 199
255	[ $\psi^3$ Aurigae]	5.5	F 5	6 41 11.516	+ 4.3280	+ 6	+43 39 19.90	-3.430	+ 154
257	$\alpha$ Canis maj. <sup>1)</sup>	1	A	6 41 45.398	+ 2.6437	-370	-16 36 34.38	-4.844	-1212
258	$\iota$ Monocer.	4.7	K	6 43 50.808	+ 3.1208	- 2	+ 2 29 50.92	-3.832	- 20
259	[ $\lambda$ Camelop.]	5.1	B 5	6 45 24.695	+ 6.4840	+ 16	+68 58 48.27	-3.943	+ 3
264	[ $\xi$ Mensae]	5.7	A 2	6 46 28.871	- 4.9537	- 35	-80 44 1.78	-3.952	+ 85
262	$\alpha$ Pictoris	3.2	A 5	6 47 24.146	+ 0.6177	- 100	-61 51 30.36	-3.861	+ 256
261	$\theta$ Geminor.	3.4	A 2	6 47 42.966	+ 3.9573	+ 7	+34 3 19.65	-4.198	- 55
263	[ $\tau$ Argus]	2.9	K	6 48 1.512	+ 1.4888	+ 29	-50 31 21.16	-4.265	- 96
260	[ $\nu$ H. Camel.]	4.6	K 5	6 48 51.603	+ 8.7872	+216	+77 4 42.90	-4.254	- 13
266	$\theta$ Canis maj.	4.1	K 5	6 50 36.751	+ 2.7876	- 94	-11 56 28.24	-4.404	- 13
265	$\iota$ Lynceis	4.6	K	6 50 36.867	+ 5.2026	0	+58 31 32.03	-4.521	- 130
267	[ $\nu$ Volantis]	5.4	B 8	6 52 20.146	- 0.6797	- 4	-70 52 3.84	-4.526	+ 12
268	$\epsilon$ Canis maj.	1.5	B 1	6 55 35.936	+ 2.3576	0	- 28 51 59.15	-4.814	+ 1
269	$\zeta$ Geminor.	(3.8)	G	6 59 32.612	+ 3.5604	0	+20 41 4.36	-5.152	- 3
270	[ $\nu^2$ Canis maj.]	3.1	B 5 p	6 59 48.546	+ 2.5053	- 2	-23 43 11.67	-5.172	0
271	$\gamma$ Canis maj.	4.0	B 5	7 0 16.520	+ 2.7152	+ 8	-15 31 6.86	-5.224	- 12
272	[Carinae 27 G.]	5.5	A	7 2 52.134	+ 1.1171	- 24	-56 37 56.65	-5.437	- 7
273	$\delta$ Canis maj.	1.9	F 8 p	7 5 15.589	+ 2.4390	- 8	-26 16 12.30	-5.628	+ 3
274	$\delta$ Aurigae	5.0	K	7 6 21.739	+ 4.1310	+ 45	+39 26 51.45	-5.723	0
275	[ $\nu$ Puppis]	4.5	F	7 10 21.841	+ 1.7095	-148	-46 37 48.53	-5.968	+ 90
276	[ $\delta$ Aurigae]	6.0	A	7 12 41.208	+ 4.1770	- 3	+41 1 17.23	-6.248	+ 3
277	$\zeta$ Geminor.	3.6	A 2	7 13 40.154	+ 3.4496	- 31	+16 40 49.61	-6.377	- 44
278	$\nu$ Argus	2.5	K 5	7 14 25.350	+ 2.1185	- 14	-36 57 30.52	-6.393	+ 3
279	$\epsilon$ Geminor.	3.3	F	7 15 31.586	+ 3.5858	- 11	+22 7 31.58	-6.497	- 10
280	$\iota$ Lynceis seq.	5.5	B 8	7 16 35.481	+ 4.9045	- 1	+55 25 41.38	-6.610	- 34



Nr.	Name	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0 <sup>o</sup> .0001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0 <sup>o</sup> .001
281	δ Volantis	4.0	F 5	7 16 <sup>m</sup> 52.509	-0.0214	+ 4	-67° 48' 58.97	- 6.611	- 12
282	ε Geminor.	3.8	K	7 20 56.824	+3.7298	- 83	+27 57 8.81	- 7.019	- 85
283	[γ Can. maj.]	2.4	B 5 p	7 21 2.948	+2.3730	- 5	-29 9 6.96	- 6.929	+ 13
284	Gr. 1308	5.8	G 8	7 22 52.976	+6.2655	- 7	+68 37 30.22	- 7.136	- 44
285	β Canis min.	2.9	B 8	7 22 58.574	+3.2552	- 31	+ 8 26 44.23	- 7.140	- 41
286	ρ Geminor.	4.4	F	7 24 9.696	+3.8625	+122	+31 56 20.59	- 7.014	+ 183
287	α Geminor. <sup>2)</sup>	1.8, 2.8	A	7 29 41.286	+3.8336	-129	+32 3 32.78	- 7.727	- 81
288	[Pupp. 108 G.]	4.7	F 8	7 30 45.387	+2.5675	- 39	-22 7 44.94	- 7.714	+ 18
289	25 Monocer.	5.3	F 5	7 33 27.023	+2.9836	- 47	- 3 56 16.88	- 7.929	+ 20
290	[γ Puppis]	4.7	B 8	7 34 31.113	+2.2194	- 27	-34 47 40.29	- 8.018	+ 16
291	α Can. min. <sup>3)</sup>	0.5	F 5	7 35 16.333	+3.1419	-469	+ 5 25 24.45	- 9.123	-1028
292	24 Lyncis	5.0	A 5	7 36 30.088	+5.0892	- 47	+58 53 31.99	- 8.247	- 53
293	[26 Monocer.]	4.0	K	7 37 34.091	+2.8662	- 57	- 9 22 13.95	- 8.300	- 21
294	z Geminor.	3.4	G 5	7 39 48.113	+3.6256	- 15	+24 35 1.99	- 8.510	- 54
295	β Geminor.	1.1	K	7 40 36.423	+3.6749	-468	+28 12 48.30	- 8.572	- 53
296	z Geminor.	5.5	K	7 42 32.745	+3.8734	- 1	+33 36 21.48	- 8.703	- 31
297	ξ Volantis	3.9	K	7 42 46.473	-0.7274	+ 8	-72 25 17.05	- 8.683	+ 8
298	[Pupp. 205 G.]	5.7	F 8	7 48 12.394	+2.7787	- 41	-13 41 34.10	- 9.459	- 343
299	[26 Lyncis]	5.7	K	7 49 6.705	+4.3771	- 40	+47 45 56.20	- 9.194	- 6
301	[α Puppis]	3.7	G 5	7 49 34.168	+2.0620	- 18	-40 22 35.32	- 9.221	+ 1
300	Gr. 1374	5.5	K	7 51 0.602	+7.2284	- 30	+74 7 33.56	- 9.366	- 32
303	γ Argus	3.5	B 3	7 54 49.316	+1.5268	- 32	-52 46 30.54	- 9.604	+ 24
302	[53 Camelop.]	6.3	A	7 55 8.640	+5.1429	- 30	+60 32 11.66	- 9.673	- 21
304	[27 Monocer.]	5.2	K	7 55 53.439	+2.9992	- 27	- 3 28 6.82	- 9.701	+ 9
305	γ Geminor.	5.1	K	7 58 47.549	+3.6888	- 15	+28 0 41.06	- 9.977	- 46
306	ξ Argus	2.2	O d	8 0 52.611	+2.1078	- 34	-39 47 7.95	-10.078	+ 10
307	27 Lyncis	4.6	A 2	8 2 40.417	+4.5239	- 59	+51 43 48.26	-10.229	- 4
308	ι Navis	2.8	F 5	8 4 15.861	+2.5548	- 64	-24 4 53.46	-10.297	+ 47
309	γ Argus	2.1	O a p	8 7 9.538	+1.8488	- 12	-47 6 32.74	-10.564	- 4
311	20 Navis	5.3	K	8 9 47.639	+2.7580	- 8	-15 33 19.35	-10.761	- 6
310	Br. 1147	5.8	G	8 9 54.607	+7.5981	+ 58	+75 59 39.58	-10.746	+ 17
312	β Caneri	3.5	K 2	8 12 20.471	+3.2556	- 30	+ 9 25 25.89	-10.994	- 52
313	[γ Puppis]	4.4	A 5	8 15 40.287	+2.2442	-104	-36 25 11.97	-11.096	+ 89
314	31 Lyncis	4.4	K	8 17 34.244	+4.1161	- 8	+43 26 10.73	-11.431	-108
315	ε Argus	1.7	K p	8 20 56.156	+1.2341	- 32	-59 15 40.38	-11.549	+ 15
316	Br. 1197	3.6	A	8 21 48.843	+2.9991	- 41	- 3 39 15.40	-11.648	- 21
318	θ Chamael.	4.2	K	8 22 58.547	-1.7611	-457	-77 14 11.81	-11.679	+ 30
317	ο Ursae maj.	3.3	G	8 23 52.887	+5.0046	-174	+60 58 37.48	-11.884	-111
319	[3 Volantis]	3.7	K	8 24 54.249	+0.6598	- 54	-65 52 47.25	-12.023	-177
320	Gr. 1450	6.3	K p	8 27 54.979	+3.9070	- 83	+38 16 53.94	-12.228	-170

Nr.	N a m e	Gr.	Spektrum	AR. 1923.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001	Dekl. 1923.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
321	$\gamma$ Cancri	5.6	K	8 <sup>h</sup> 28 <sup>m</sup> 15.548	+3.4732	— 26	+20° 42' 13.54	—12.132	— 50
322	[Gr. 1446]	6.4	G 5	8 31 11.058	+6.7278	— 36	+73 54 2.83	—12.389	—104
323	[Gr. 1460]	6.3	F 5	8 33 35.863	+4.4579	— 38	+52 58 57.61	—12.486	— 35
324	[ $\epsilon$ Velorum]	4.2	A 5	8 34 56.109	+2.1080	— 22	—42 43 9.00	—12.549	— 7
325	[6 Hydrae]	5.4	K	8 36 22.570	+2.8421	— 64	—12 12 8.42	—12.643	— 3
326	$\delta$ Cancri	3.9	K	8 40 18.728	+3.4128	— 9	+18 26 17.70	—13.142	—236
327	$\alpha$ Pyxididis	3.7	B 2	8 40 29.846	+2.4101	— 15	—32 54 29.04	—12.906	+ 12
328	$\iota$ Cancri	4.1	G 5	8 42 2.520	+3.6358	— 12	+29 2 33.27	—13.068	— 47
330	$\delta$ Argus	2.0	A	8 42 34.659	+1.6573	+ 22	—54 25 33.59	—13.150	— 93
329	[ $\epsilon$ Hydrae]	3.3	F 8	8 42 42.011	+3.1793	— 126	+ 6 42 8.08	—13.115	— 50
331	[ $\gamma$ Chamael.]	5.9	K	8 43 58.547	—1.9828	— 151	—78 41 3.41	—13.115	+ 34
332	[ $\gamma$ Pyxididis]	4.2	K 2	8 47 15.819	+2.5460	— 100	—27 25 24.45	—13.271	+ 93
333	[ $\sigma^2$ Cancri med.]	5.6	G 5	8 49 33.070	+3.6659	+ 31	+30 52 19.09	—13.539	— 26
334	$\zeta$ Hydrae	3.1	K	8 51 19.513	+3.1735	— 64	+ 6 14 22.12	—13.616	+ 12
336	$\epsilon$ Carinae	4.0	B 8	8 53 18.250	+1.3624	— 26	—60 20 59.39	—13.702	+ 52
335	$\iota$ Ursae maj.	2.9	A 5	8 53 56.672	+4.1190	— 437	+48 20 41.97	—14.042	—247
337	$\alpha$ Cancri	4.1	A 5	8 54 16.699	+3.2839	+ 26	+12 9 24.06	—13.851	— 35
338	[ $\rho$ Ursae maj.]	4.9	M a	8 55 37.547	+5.4441	— 34	+67 55 52.00	—13.886	+ 15
339	$\iota\theta$ Ursae maj.	3.9	F 5	8 55 38.935	+3.9040	— 383	+42 5 18.93	—14.167	—264
340	[Gr. 1501]	5.9	A 2	8 58 22.567	+4.4104	— 8	+54 35 18.71	—14.070	+ 3
341	$\alpha$ Ursae maj.	3.3	A	8 58 22.626	+4.1071	— 27	+47 27 43.49	—14.138	— 65
343	$\alpha$ Volantis	4.1	A 5	9 1 14.097	+0.9523	— 8	—66 5 18.85	—14.364	—114
342	[ $\epsilon$ Velorum]	3.9	K	9 1 29.789	+2.0665	— 70	—46 47 26.63	—14.294	— 28
344	$\sigma^2$ Ursae maj.	4.9	F 8	9 3 38.445	+5.3102	— 16	+67 26 54.89	—14.464	— 67
345	$\lambda$ Argus	2.1	K 5	9 5 9.706	+2.2047	— 33	—43 7 15.91	—14.481	+ 9
346	[36 Lynceis]	5.3	B 8	9 <sup>h</sup> 8 46.517	+3.9338	— 18	+43 32 10.02	—14.749	— 42
347	$\theta$ Hydrae	3.9	A	9 10 21.583	+3.1232	+ 89	+ 2 38 23.67	—15.113	—313
348	$\beta$ Argus	1.7	A	9 12 21.697	+0.6677	— 303	—69 23 59.52	—14.820	+ 97
349	[38 Lynceis]	3.9	A	9 14 3.540	+3.7412	— 18	+37 7 45.66	—15.146	—129
350	$\delta_3$ Cancri	6.7	G	9 14 41.215	+3.3520	— 80	+18 1 57.34	—15.188	—135
351	[ $\iota$ Argus]	2.2	F	9 15 1.705	+1.6059	— 35	—58 57 6.24	—15.071	+ 2
352	$\alpha\theta$ Lynceis	3.2	K 5	9 16 22.173	+3.6613	— 178	+34 43 8.49	—15.138	+ 12
353	$\alpha$ Argus	2.5	B 3	9 19 43.664	+1.8566	— 22	—54 40 52.85	—15.338	+ 2
354	$\alpha$ Hydrae	2.0	K 2	9 23 48.252	+2.9489	— 7	— 8 19 26.83	—15.535	+ 32
355	$h$ Ursae maj.	3.5	F	9 25 28.646	+4.7556	+ 168	+63 23 58.74	—15.630	+ 28
356	[ $\epsilon$ Antliae]	4.7	K 2	9 26 3.942	+2.4746	— 25	—35 36 50.60	—15.705	— 14
359	$\psi$ Argus	3.6	F 5	9 27 39.927	+2.3608	— 172	—40 7 44.29	—15.704	+ 74
357	$\alpha$ Ursae maj.	4.5	G	9 27 42.209	+5.3460	— 120	+70 10 12.09	—15.705	+ 75
358	$\theta$ Ursae maj.	3.1	F 8	9 27 43.069	+4.0258	— 1027	+52 1 44.94	—16.327	—546
361	[ $\lambda$ Velorum]	3.0	K 5	9 28 52.934	+1.8231	— 36	—56 41 38.93	—15.842	+ 1

Nr.	N a m e	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in o°.0001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in o°.0001
360	10 Leon. min.	4.6	G 5	9 29 <sup>h</sup> 30 <sup>m</sup> 7.749	+3.6830	+ 13	+36° 44' 25.02	-15.903	- 26
362	[H. Carinae]	5.8	K	9 31 2.281	+0.4640	- 61	-72 44 21.56	-15.975	- 17
363	[Gr. 1564]	5.9	K	9 35 41.026	+5.1745	-131	+69 35 20.65	-16.274	- 74
364	[z Hydrae]	5.1	B 3	9 36 36.890	+2.8761	- 18	-13 58 55.90	-16.259	- 11
365	[o Leonis]	3.8	F 5 p	9 37 2.599	+3.2044	- 94	+10 14 36.08	-16.308	- 37
366	θ Antliae	5.0	F 2	9 40 46.091	+2.6731	- 40	-27 24 58.82	-16.423	+ 35
367	ε Leonis	3.0	G p	9 41 29.064	+3.4099	- 31	+24 7 46.19	-16.511	- 17
369	υ Argus	3.0	F	9 45 10.678	+1.5008	- 21	-64 42 52.07	-16.677	- 1
368	υ Ursae maj.	3.8	F	9 45 31.767	+4.2860	-379	+59 24 6.55	-16.846	-154
370	6 Sextantis	6.2	A	9 47 21.267	+3.0239	+ 8	- 3 52 54.77	-16.810	- 30
371	[μ Leonis]	4.0	K	9 48 23.302	+3.4164	-162	+26 22 13.21	-16.886	- 56
373	[Hydrae 183 G.]	5.5	M a	9 51 14.305	+2.8301	- 24	-18 38 39.32	-17.030	- 66
372	Gr. 1586	6.3	K	9 51 32.143	+5.4149	-179	+73 14 47.93	-17.023	- 45
374	[19 Leon. min.]	5.2	F	9 52 58.542	+3.6833	-100	+41 25 22.90	-17.071	- 27
375	[φ Argus]	3.7	B 5	9 54 9.425	+2.1036	- 21	-54 12 2.99	-17.101	- 2
377	[η Antliae]	5.3	F 8	9 55 33.918	+2.5716	- 83	-35 31 18.88	-17.187	- 24
376	[12 Sextantis]	6.7	F	9 55 43.510	+3.1133	- 47	+ 3 45 12.80	-17.143	+ 27
378	π Leonis	4.9	M a	9 56 8.776	+3.1724	- 21	+ 8 24 51.38	-17.214	- 25
379	η Leonis	3.4	A p	10 3 8.240	+3.2737	- 2	+17 8 19.41	-17.501	- 6
380	α Leonis	1.3	B 8	10 4 16.411	+3.1976	-167	+12 20 38.65	-17.544	- 1
381	λ Hydrae	3.7	K	10 6 50.061	+2.9251	-134	-11 58 22.50	-17.738	- 87
382	γ Velorum	3.9	A 2	10 11 29.989	+2.5137	-154	-41 44 23.81	-17.796	+ 45
385	[ω Argus]	3.4	B 8	10 11 54.696	+1.4325	- 28	-69 39 18.97	-17.857	0
384	ζ Leonis	3.4	F	10 12 24.686	+3.3409	+ 15	+23 48 5.88	-17.884	- 7
383	λ Ursae maj.	3.4	A	10 12 27.627	+3.6274	-148	+43 17 57.95	-17.928	- 49
386	μ Ursae maj.	3.0	K 5	10 17 44.941	+3.5829	- 70	+41 53 14.17	-18.059	+ 24
387	30 H. Urs. maj.	5.0	A	10 18 35.929	+4.3527	- 25	+65 57 23.46	-18.133	- 18
388	[25 Sextantis]	6.2	A	10 19 32.977	+3.0323	- 40	- 3 41 4.10	-18.153	- 2
389	μ Hydrae	3.9	K 5	10 22 21.957	+2.9013	- 85	-16 26 34.00	-18.335	- 82
391	J Carinae	4.1	F 5	10 22 52.163	+1.1941	- 67	-73 38 21.65	-18.288	- 17
390	31 Leon. min.	4.2	K	10 23 26.218	+3.4766	- 96	+37 6 8.35	-18.398	-106
392	Lac. α Antliae	4.2	K 5	10 23 37.576	+2.7429	- 62	-30 40 31.08	-18.289	+ 10
393	σ Carinae	4.1	F	10 25 2.897	+2.1970	- 32	-58 20 45.35	-18.363	- 14
394	36 Ursae maj.	4.8	F	10 25 42.664	+3.8548	-216	+56 22 33.54	-18.406	- 33
395	9 H. Dracon.	4.9	K	10 28 35.667	+5.1618	- 96	+76 6 37.39	-18.476	- 4
396	[ρ Leonis]	3.8	B p	10 28 45.507	+3.1608	- 6	+ 9 42 11.87	-18.483	- 5
397	[ρ Carinae]	3.5	B 5 p	10 29 17.032	+2.1303	- 18	-61 17 19.92	-18.490	+ 5
398	[37 Ursae maj.]	5.2	F	10 30 12.879	+3.8814	+ 83	+57 28 47.15	-18.490	+ 36
399	[44 Hydrae]	5.6	K	10 30 21.075	+2.8526	- 2	-23 20 52.68	-18.510	+ 12
400	[ρ Velorum]	4.0	F 2	10 34 3.594	+2.5142	-183	-47 49 31.59	-18.686	- 43



Nr.	N a m e	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0°.0001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0°.001
401	[γ Chamael.]	4.2	M u	10 <sup>h</sup> 34 <sup>m</sup> 34.333	+0.7300	-116	-78° 12 29.25	-18.638	+ 30
402	[α Velorum]	4.4	G	10 36 14.067	+2.3780	- 75	-55 12 7.51	-18.742	- 21
404	33 Sextantis	6.6	K	10 37 29.190	+3.0524	- 94	- 1 20 11.13	-18.885	-125
403	[35 H. Urs. maj.]	5.1	K	10 37 34.651	+4.3275	- 19	+69 28 46.04	-18.780	- 18
405	[41 Leon. min.]	5.2	A 2	10 39 13.983	+3.2661	- 81	+23 35 31.26	-18.801	+ 13
406	θ Argus	2.8	B	10 40 12.373	+2.1357	- 26	- 63 59 26.53	-18.838	+ 4
407	42 Leon. min.	5.3	B 9	10 41 35.294	+3.3416	- 15	+31 5 17.93	-18.921	- 37
408	μ Argus	2.7	G 5	10 43 27.135	+2.5735	+ 49	-49 0 47.19	-19.002	- 65
411	[δ² Chamael.]	4.7	B 3	10 45 4.888	+0.5935	-120	-80 8 2.03	-18.974	+ 9
409	γ Leonis	5.4	A	10 45 12.699	+3.1554	- 3	+10 57 10.75	-19.018	- 30
410	[ν Hydrae]	3.2	K	10 45 49.477	+2.9592	+ 66	-15 47 25.45	-18.810	+195
412	[46 Leon. min.]	3.9	K	10 49 0.657	+3.3616	+ 76	+34 37 49.34	-19.373	-282
414	[τ Antliae]	4.9	K	10 53 7.571	+2.7921	+ 62	-36 43 24.87	-19.335	-137
413	[Br. 1508]	6.4	G 2	10 53 50.482	+4.8653	-259	+78 10 59.42	-19.242	- 26
415	ι Velorum	4.5	A 2	10 56 37.070	+2.7483	+ 20	-41 48 45.52	-19.287	- 4
416	β Ursae maj.	2.3	A	10 57 12.388	+3.6353	+101	+56 47 43.65	-19.271	+ 26
417	α Ursae maj.	1.8	K	10 58 59.406	+3.7212	-174	+62 10 1.15	-19.411	- 72
418	χ Leonis	4.8	F	11 1 2.786	+3.0960	-231	+ 7 45 9.38	-19.431	- 46
419	[ζ Hydrae]	4.8	F 5	11 1 37.128	+2.8867	-154	-26 52 39.89	-19.405	- 7
420	ψ Ursae maj.	3.0	K	11 5 20.499	+3.3818	- 57	+44 54 59.50	-19.514	- 36
421	β Crateris	4.3	A 2	11 7 52.124	+2.9485	0	-22 24 18.52	-19.626	- 98
422	δ Leonis	2.4	A 2	11 10 0.969	+3.1940	+106	+20 56 44.90	-19.707	-136
423	θ Leonis	3.3	A	11 10 12.087	+3.1503	- 43	+15 51 2.47	-19.655	- 81
424	[Gr. 1757]	6.1	K	11 12 21.946	+3.3905	- 97	+49 53 47.95	-19.636	- 22
425	ν Ursae maj.	3.4	K	11 14 19.475	+3.2464	- 16	+33 30 52.71	-19.626	+ 22
426	δ Crateris	3.6	K	11 15 29.363	+2.9979	- 88	-14 21 41.99	-19.468	+200
427	σ Leonis	4.1	A	11 17 19.017	+3.0946	- 62	+ 6 27 5.60	-19.708	- 12
428	π Centauri	4.1	B 5	11 17 29.365	+2.7285	- 41	-54 4 7.93	-19.714	- 13
429	Gr. 1771	6.2	A	11 18 17.666	+3.5845	- 10	+64 45 7.72	-19.680	+ 34
430	[τ Leonis]	4.0	F 5	11 19 54.682	+3.1284	+106	+10 57 12.56	-19.823	- 84
431	[γ Crateris]	4.0	A 2	11 21 1.991	+2.9953	- 72	-17 15 39.00	-19.749	+ 7
432	[58 Ursae maj.]	6.1	F	11 26 21.509	+3.2545	- 43	+43 35 45.65	-19.758	+ 72
433	λ Draconis	3.6	M a	11 26 51.115	+3.5870	- 80	+69 45 22.31	-19.857	- 21
434	ξ Hydrae	3.6	G 5	11 29 12.651	+2.9466	-167	-31 25 53.17	-19.907	- 43
435	[C² Centauri]	5.5	A 5	11 32 11.239	+2.8992	+ 13	-47 12 52.08	-19.945	- 47
436	λ Centauri	3.3	B 9	11 32 13.262	+2.7554	- 58	-62 35 37.23	-19.915	- 17
437	ο Leonis	4.4	K	11 33 0.371	+3.0717	+ 1	- 0 23 54.81	-19.870	+ 36
438	[π Chamael.]	6.1	F	11 34 4.614	+2.4629	-279	-75 28 12.52	-19.922	- 5
439	[ο Hydrae]	4.8	B 8	11 36 23.101	+2.9759	- 30	-34 19 4.03	-19.938	+ 1
440	3 Draconis	5.4	M a	11 38 11.562	+3.3660	- 78	+67 10 16.41	-19.915	+ 40

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442	[ $\lambda$ Muscae]	3.7	A 5	11 41 <sup>h</sup> 57.780 <sup>m</sup>	+2.8181	-153	-66° 18' 6.70	-19.963	+ 20
441	$\gamma$ Ursae maj.	3.8	K	11 41 59.476	+3.1767	-133	+48 12 22.93	-19.964	+ 20
443	[Centauri 65 G.]	4.2	G	11 42 46.853	+2.8912	- 25	-60 45 1.17	-20.023	- 35
444	$\beta$ Leonis	2.1	A 2	11 45 8.017	+3.0619	-341	+15 0 9.18	-20.121	-118
445	$\beta$ Virginis	3.5	F 8	11 46 41.062	+3.1252	+494	+ 2 11 55.16	-20.287	-276
446	[ $\beta$ Centauri]	4.8	K p	11 47 17.240	+2.9882	-111	-44 44 42.85	-20.060	- 46
447	$\gamma$ Ursae maj.	2.3	A	11 49 47.305	+3.1659	+107	+54 7 22.20	-20.023	+ 2
448	[ $\epsilon$ Chamael.]	5.0	B 9	11 55 46.702	+2.9428	-161	-77 47 34.95	-20.051	- 9
449	[Centauri 88 G.]	5.5	F	11 59 39.844	+3.0977	+267	-42 0 10.56	-20.168	-122
450	$\alpha$ Virginis	4.1	G 5	12 1 17.247	+3.0568	-147	+ 9 9 37.94	-20.007	+ 38
451	[Gr. 1852]	6.0	K	12 1 21.546	+3.0813	+437	+77 20 10.65	-20.141	- 96
452	$\delta$ Centauri	2.7	B 3 p	12 4 21.603	+3.0990	- 44	-50 17 36.92	-20.059	- 18
453	$\epsilon$ Corvi	3.0	K	12 6 9.685	+3.0823	- 51	-22 11 29.58	-20.027	+ 11
454	4 H. Draconis	5.0	A 5	12 8 36.657	+2.8380	+ 23	+78 2 38.67	-20.008	+ 23
455	[ $\delta$ Crucis]	3.0	B 3	12 11 2.790	+3.1721	- 50	-58 19 14.77	-20.048	- 27
456	$\delta$ Ursae maj.	3.4	A 2	12 11 37.400	+2.9802	+136	+57 27 37.12	-20.017	+ 3
457	[ $\gamma$ Corvi]	2.4	B 8	12 11 50.612	+3.0828	-112	-17 6 52.18	-20.002	+ 17
458	[2 Can. ven.]	5.9	K 5 p	12 12 16.350	+3.0129	+ 26	+41 5 19.03	-20.062	- 45
459	$\beta$ Chamael.	4.4	B 5	12 13 47.782	+3.4677	-143	-78 53 5.09	-19.997	+ 12
460	$\gamma$ Virginis	3.7	A	12 15 57.951	+3.0689	- 42	- 0 14 20.43	-20.020	- 23
461	[6 Can. ven.]	5.3	K	12 22 3.568	+2.9604	- 67	+39 26 44.45	-19.989	- 36
462	$\alpha$ Crucis md.	1.0	B 1	12 22 18.466	+3.3197	- 44	-62 40 22.41	-19.982	- 31
463	[Hydr. 323 G.]	5.7	A	12 22 47.898	+3.1556	- 14	-32 24 12.65	-19.995	- 49
464	[ $\sigma$ Centauri]	4.1	B 3	12 23 52.063	+3.2336	- 36	-49 48 15.80	-19.969	- 33
466	20 Comae	6.0	A	12 25 51.275	+3.0166	+ 26	+21 19 20.27	-19.956	- 39
465	$\delta$ Corvi	2.8	A	12 25 52.653	+3.1017	-145	-16 5 12.87	-20.060	-142
467	[74 Ursae maj.]	5.6	A 5	12 26 21.912	+2.8096	- 96	+58 49 45.23	-19.825	+ 88
468	[ $\gamma$ Crucis]	1.6	M b	12 26 53.036	+3.3133	+ 26	-56 40 56.19	-20.185	-278
469	[ $\gamma$ Muscae]	3.9	B 5	12 27 50.936	+3.5547	- 82	-71 42 28.49	-19.919	- 22
470	8 Can. ven.	4.3	G	12 30 5.411	+2.8540	-625	+41 46 32.22	-19.593	+280
472	$\alpha$ Draconis	3.6	B 5 p	12 30 12.323	+2.5729	-117	+70 12 44.94	-19.864	+ 7
471	$\beta$ Corvi	2.6	G 5	12 30 20.296	+3.1471	- 4	-22 58 16.05	-19.929	- 59
473	24 Comae seq.	5.1	K	12 31 16.135	+3.0111	+ 2	+18 48 2.71	-19.840	+ 18
474	$\alpha$ Muscae	2.8	B 3	12 32 34.526	+3.5530	- 55	-68 42 41.73	-19.875	- 32
475	[ $\gamma$ Virginis]	4.9	K	12 35 16.231	+3.0950	- 49	- 7 34 19.58	-19.845	- 37
476	$\gamma$ Centauri	2.3	A	12 37 15.662	+3.2971	-205	-48 32 13.71	-19.800	- 20
477	[ $\gamma$ Virgin. m.]	3.5, 3.5	F	12 37 45.452	+3.0392	-375	- 1 1 38.51	-19.769	+ 5
478	76 Ursae maj.	6.2	A	12 38 12.487	+2.6305	- 45	+63 8 8.20	-19.784	- 17
479	[Hydr. 330 G.]	5.9	K p	12 39 54.011	+3.1927	- 26	-27 54 6.12	-19.792	- 50
480	[ $\beta$ Muscae]	3.2	B 3	12 41 32.480	+3.6545	- 53	-67 41 12.83	-19.748	- 31

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481	β Crucis	1.4	B 1	12 43 <sup>h</sup> 12.571	+3.4881	— 59	—59 16 5.14	—19.717	— 27
482	η Centauri	4.4	A 5	12 49 9.874	+3.3139	+ 45	—39 45 37.89	—19.623	— 37
483	ε Ursae maj.	1.7	A p	12 50 38.812	+2.6459	+137	+56 22 38.99	—19.569	— 11
484	δ Virginis	3.4	M a	12 51 43.441	+3.0213	—315	+ 3 48 55.87	—19.600	— 63
486	8 Draconis	5.2	F	12 52 24.932	+2.3954	— 15	+65 51 21.38	—19.557	— 34
485	12 Can. ven. sq.	2.8	A p	12 52 25.730	+2.8098	—199	+38 44 2.07	—19.473	+ 50
487	[δ Muscae]	3.6	K 2	12 56 56.871	+4.0874	+529	—71 8 2.26	—19.465	— 36
488	ε Virginis	2.8	K	12 58 20.635	+2.9866	—185	+11 22 21.66	—19.381	+ 18
489	[ε <sup>2</sup> Centauri]	4.3	B 3	13 2 24.342	+3.4899	— 35	—49 29 39.52	—19.336	— 30
490	θ Virginis	4.3	A	13 5 57.673	+3.1044	— 24	— 5 7 41.98	—19.260	— 39
491	[17 Can. ven.]	6.1	A	13 6 31.234	+2.7582	— 59	+38 54 27.73	—19.175	+ 32
492	43 Comae	4.2	G	13 8 16.906	+2.8016	—602	+28 16 5.14	—18.283	+879
493	[γ Muscae]	5.0	B 8	13 10 0.740	+4.0392	— 33	—67 29 13.45	—19.146	— 30
494	[20 Can. ven.]	4.6	F	13 14 5.558	+2.6933	—107	+40 58 38.98	—18.998	+ 8
495	γ Hydrae	3.1	G 5	13 14 43.902	+3.2575	+ 51	—22 45 56.89	—19.042	— 53
496	ι Centauri	2.9	A 2	13 16 15.682	+3.3641	—293	—36 18 23.80	—19.038	— 92
497	ζ Urs. maj. pr.	2.2	A p	13 20 49.715	+2.4198	+144	+55 19 37.60	—18.837	— 25
498	α Virginis	1.1	B 2	13 21 8.029	+3.1580	— 28	—10 45 35.55	—18.835	— 33
499	Gr. 2001	6.2	M a	13 24 10.131	+1.5271	+ 35	+72 47 27.76	—18.723	— 15
500	69 H. Urs. maj.	5.5	A	13 25 37.693	+2.2052	—109	+60 20 35.34	—18.625	+ 37
501	ζ Virginis	3.3	A 2	13 30 46.085	+3.0556	—190	— 0 12 9.97	—18.459	+ 35
502	17 H. Can. ven.	4.9	F	13 31 21.612	+2.6800	+ 64	+37 34 35.13	—18.487	— 14
503	[Chamael. 49 G.]	6.4	A	13 32 34.191	+5.0686	— 49	—75 17 30.28	—18.445	— 14
504	ε Centauri	2.4	B 1	13 34 59.826	+3.7851	— 37	—53 4 32.06	—18.382	— 34
505	[Gr. 2029]	5.9	G 5	13 35 19.867	+1.4378	— 86	+71 38 1.91	—18.336	0
506	[ι Centauri]	4.3	F 5	13 41 18.353	+3.4020	—371	—32 39 17.78	—18.275	—156
507	τ Bootis	4.5	F 5	13 43 36.180	+2.8509	—340	+17 50 23.73	—18.003	+ 29
509	η Ursae maj.	1.8	B 3	13 44 30.537	+2.3670	—119	+49 41 49.47	—18.017	— 20
508	[μ Centauri]	3.3	B 2 p	13 44 58.181	+3.6036	— 28	—42 5 26.15	—17.998	— 19
510	89 Virginis	5.2	K	13 45 41.057	+3.2562	— 69	—17 45 4.13	—17.990	— 38
511	[ι Draconis]	4.8	M a	13 49 11.002	+1.7524	0	+65 6 12.01	—17.815	— 2
512	ζ Centauri	2.6	B 2 p	13 50 43.561	+3.7293	— 70	—46 54 36.19	—17.812	— 61
513	η Bootis	2.8	G	13 51 1.107	+2.8570	— 42	+18 46 59.22	—18.103	364
514	[Cent. 294 G.]	4.9	K	13 52 3.563	+4.3167	— 46	—63 18 35.60	—17.730	— 35
515	[47 Hydrae]	5.5	B 8	13 54 11.646	+3.3617	— 34	—24 35 49.48	—17.648	— 40
517	11 Bootis	6.3	A	13 57 41.048	+2.7216	— 57	+27 45 28.37	—17.452	+ 8
516	τ Virginis	4.2	A 2	13 57 43.584	+3.0520	+ 13	+ 1 54 59.28	—17.488	— 30
518	β Centauri	1	B 1	13 58 22.485	+4.2131	— 28	—60 0 8.75	—17.470	— 40
519	[π Hydrae]	3.4	K	14 1 58.883	+3.4111	+ 30	—26 18 43.87	—17.425	—153
520	θ Centauri	2.1	K	14 2 8.623	+3.5220	—439	—35 59 30.88	—17.795	—530



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521	$\alpha$ Draconis	3.4	A	14 <sup>h</sup> 2 <sup>m</sup> 18.215	+1.6236	- 83	+64° 44' 36.70	-17.241	+ 16
522	$d$ Bootis	4.9	F 5	14 6 53.278	+2.7371	- 12	+25 27 20.81	-17.120	- 69
523	$\kappa$ Virginis	4.2	K	14 8 47.126	+3.1977	+ 4	- 9 54 57.63	-16.829	+ 134
524	$\delta$ Ursae min.	5.0	K	14 9 7.344	-0.2703	- 113	+77 54 33.69	-16.915	+ 32
525	$\iota$ Virginis	4.0	F 5	14 11 58.438	+3.1432	- 14	- 5 38 1.70	-17.243	- 431
526	$\alpha$ Bootis	1	K	14 12 8.922	+2.7359	- 776	+19 34 57.57	-18.804	-2000
528	[ $\iota$ Bootis]	4.6	A 5	14 13 26.395	+2.1257	- 159	+51 43 18.77	-16.656	+ 86
527	$\lambda$ Bootis	4.0	A	14 13 27.466	+2.2822	- 177	+46 26 28.63	-16.589	+ 152
529	[ $\nu$ Centauri]	4.4	B 5	14 14 55.923	+4.1696	- 47	-56 1 58.24	-16.709	- 39
530	[Circini 10 G.]	5.9	A 2p	14 18 41.659	+4.9359	- 41	-67 50 46.91	-16.521	- 36
531	$\theta$ Bootis	3.9	F 8	14 22 34.562	+2.0430	- 256	+52 12 21.98	-16.694	- 404
532	[52 Hydrae]	5.1	B 8	14 23 39.466	+3.5070	- 28	-29 8 47.11	-16.265	- 30
533	[ $\varphi$ Virginis]	5.0	K	14 24 13.988	+3.0896	- 90	- 1 53 0.79	-16.212	- 7
534	$\rho$ Bootis	3.7	K	14 28 30.713	+2.5861	- 75	+30 42 31.41	-15.869	+ 113
535	$\gamma$ Bootis	2.9	F	14 28 58.687	+2.4168	- 93	+38 38 39.85	-15.813	+ 145
536	[Gr. 2125]	6.4	A	14 29 37.356	+1.6284	- 58	+60 33 52.21	-15.904	+ 18
537	$\eta$ Centauri	2.5	B 3p	14 30 36.581	+3.7995	- 36	-41 49 13.75	-15.907	- 36
538	$\alpha$ Centauri <sup>4)</sup>	1	K 5:G	14 34 21.385	+4.0594	-4877	-60 31 6.68	-14.956	+ 712
540	[33 Bootis]	5.5	A	14 35 58.307	+2.2329	- 68	+44 44 10.54	-15.605	- 26
539	[ $\alpha$ Circini]	3.3	F	14 36 15.748	+4.8177	- 320	-64 38 27.23	-15.801	- 238
541	[ $\alpha$ Lupi]	2.4	B 2	14 36 47.962	+3.9783	- 20	-47 3 31.47	-15.570	- 36
543	$\zeta$ Bootis m.	3.6	A 2	14 37 28.263	+2.8642	+ 37	+14 3 28.00	-15.523	- 27
542	$\alpha$ Apodis	3.8	K 5	14 38 13.007	+7.3336	- 56	-78 43 11.08	-15.490	- 35
544	[ $\epsilon^1$ Centauri]	4.1	K	14 38 56.459	+3.6613	- 61	-34 50 35.23	-15.613	- 198
545	$\mu$ Virginis	3.9	F 5	14 38 59.985	+3.1593	+ 69	- 5 19 27.57	-15.738	- 326
546	[ $\delta$ Lupi]	5.9	K	14 41 37.478	+4.1814	- 24	-52 3 31.24	-15.357	- 92
547	$\iota$ Virginis	3.7	A	14 42 21.264	+3.0317	- 75	+ 2 12 59.18	-15.261	- 39
548	$\alpha$ Librae	2.7	A 2	14 46 36.897	+3.3151	- 77	-15 43 21.78	-15.051	- 74
549	Gr. 2164	5.8	K	14 49 28.996	+1.5204	- 170	+59 36 22.90	-14.680	+ 129
550	$\beta$ Ursae min.	2.0	K 5	14 50 54.758	-0.1980	- 78	+74 28 12.68	-14.718	+ 7
551	P. XIV, 221	6.0	A	14 52 35.115	+2.8310	- 10	+14 45 23.55	-14.643	- 18
552	$\beta$ Lupi	2.7	B 2p	14 53 28.766	+3.9182	- 51	-42 49 29.72	-14.632	- 60
553	[ $\kappa$ Centauri]	3.2	B 3	14 54 8.661	+3.8936	- 21	-41 47 46.52	-14.565	- 33
554	[2 H. Urs. min.]	4.8	M b	14 56 21.157	+0.9461	- 147	+66 14 20.11	-14.364	+ 34
555	$\beta$ Bootis	3.3	G 5	14 59 2.733	+2.2600	- 36	+40 41 36.52	-14.276	- 43
556	$\gamma$ Scorpii	3.4	M b	14 59 33.514	+3.5065	- 57	-24 58 49.48	-14.257	- 55
557	$\psi$ Bootis	4.5	K	15 1 8.758	+2.5706	- 131	+27 14 49.37	-14.118	- 15
558	$\zeta$ Lupi	3.4	K	15 6 44.511	+4.2954	- 133	-51 48 26.26	-13.824	- 73
559	[ $\iota$ Librae]	4.6	A p	15 7 49.684	+3.4155	- 32	-19 30 4.89	-13.729	- 47
562	[3 Serpentis]	5.5	G 2	15 11 21.616	+2.9809	- 12	+ 5 13 27.25	-13.461	- 7

Nr.	N a m e	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0 <sup>o</sup> .0001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0 <sup>o</sup> .001
561	[β Circini]	4.2	A 3	15 11 <sup>h</sup> 28.308	+4.6779	-130	-58 <sup>o</sup> 30 53.73	-13.595	- 149
560	γ Triang. austr.	2.9	A	15 11 41.870	+5.5675	-101	-68 23 47.79	-13.469	- 37
563	δ Bootis	3.2	K	15 12 23.908	+2.4192	+ 73	+33 36 4.58	-13.508	- 122
564	β Librae	2.5	B 8	15 12 51.649	+3.2259	- 64	- 9 5 59.31	-13.384	- 27
565	ι H. Urs. min.	5.3	G	15 13 44.900	+0.6808	+386	+67 38 19.93	-13.694	- 395
566	φ <sup>1</sup> Lupi	3.5	K 5	15 16 54.820	+3.7994	- 82	-35 58 59.43	-13.185	- 95
569	γ Ursae min.	3.0	A 2	15 20 50.285	-0.1111	- 32	+72 6 28.72	-12.812	+ 16
568	μ Bootis	4.1	F	15 21 34.869	+2.2662	-123	+37 38 47.19	-12.698	+ 80
570	[τ <sup>1</sup> Serpentis]	5.5	M a	15 22 13.060	+2.7816	- 11	+15 41 52.03	-12.759	- 24
567	[z <sup>1</sup> Apodis]	5.9	B 5 p	15 23 5.216	+6.4856	+ 5	-73 7 27.58	-12.714	- 37
571	ι Draconis	3.2	K	15 23 12.870	+1.3326	- 5	+59 14 7.26	-12.653	+ 14
572	β Coron. bor.	3.7	F p	15 24 39.251	+2.4738	-131	+29 22 12.98	-12.494	+ 76
573	ν <sup>1</sup> Bootis	4.8	K 5	15 28 9.788	+2.1548	+ 10	+41 5 41.26	-12.343	- 13
574	[ε Triang. austr.]	4.3	K	15 29 39.156	+5.4608	+ 29	-66 3 35.16	-12.308	- 82
576	[θ Coron. bor.]	4.1	B 5	15 29 49.446	+2.4187	- 17	+31 37 5.09	-12.241	- 26
575	γ Lupi	2.9	B 3	15 30 0.111	+3.9889	- 26	-40 54 32.98	-12.242	- 39
577	γ Librae	4.1	K	15 31 12.949	+3.3531	+ 43	-14 32 1.50	-12.115	+ 3
578	α Coron. bor.	2.2	A	15 31 25.635	+2.5399	+ 93	+26 58 22.56	-12.202	- 98
579	[3 H. Scorpii]	3.9	K 2	15 32 20.687	+3.6369	- 11	-27 52 52.40	-12.050	- 11
580	[φ Bootis]	5.3	K	15 35 3.670	+2.1546	+ 58	+40 36 12.05	-11.797	+ 52
581	[γ Coron. bor.]	3.8	A	15 39 30.537	+2.5195	- 74	+26 32 18.97	-11.499	+ 34
582	α Serpentis	2.5	K	15 40 28.428	+2.9538	+ 91	+ 6 40 0.79	-11.421	+ 42
583	β Serpentis	3.4	A 2	15 42 37.988	+2.7685	+ 51	+15 39 42.45	-11.362	- 54
584	α Serpentis	4.0	K 5	15 45 16.387	+2.7002	- 31	+18 22 42.09	-11.215	- 98
587	[12 H. Dracon.]	5.3	A 2	15 45 29.304	+0.9098	+ 55	+62 50 13.78	-11.162	- 61
585	μ Serpentis	3.3	A	15 45 35.976	+3.1290	- 59	- 3 11 44.39	-11.124	- 32
586	[χ Lupi]	4.1	B 9	15 46 3.606	+3.8060	- 15	-33 23 37.38	-11.090	- 30
590	ζ Ursae min.	4.3	A 2	15 46 46.392	-2.1901	+ 60	+78 1 55.50	-11.007	- 1
588	ε Serpentis	3.5	A	15 46 58.567	+2.9891	+ 84	+ 4 42 30.48	-10.933	+ 59
589	β Triang. austr.	2.9	F	15 48 20.587	+5.2653	-279	-63 11 40.63	-11.299	- 407
591	[γ Serpentis]	3.7	F 8	15 52 53.717	+2.7702	+212	+15 54 42.71	-11.850	-1295
592	[π Scorpii]	3.0	B 2 p	15 54 11.348	+3.6247	- 15	-25 53 37.50	-10.497	- 37
593	ε Coron. bor.	4.0	K	15 54 23.923	+2.4830	- 61	+27 5 59.69	-10.512	- 68
594	δ Scorpii	2.3	B	15 55 46.609	+3.5439	- 8	-22 24 13.87	-10.377	- 36
595	[Gr. 2296]	5.1	A 5	15 55 57.651	+1.4204	-187	+54 58 0.50	-10.216	+ 111
598	θ Draconis	3.8	F 8	16 0 26.644	+1.1217	-402	+58 46 13.84	- 9.649	+ 340
597	β Scorpii	2.6	B 1	16 0 57.372	+3.4850	- 7	-19 35 45.32	- 9.977	- 27
596	[δ Normae]	4.8	A 3 p	16 1 2.512	+4.2312	- 5	-44 57 57.05	- 9.938	+ 6
599	[θ Lupi]	4.4	B 3	16 1 31.789	+3.9325	- 29	-36 35 38.30	- 9.947	- 41
601	[φ Herculis]	4.0	A	16 6 20.568	+1.8896	- 23	+45 8 9.71	- 9.507	+ 31

Nr.	Name	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".0001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
600	[z Normae]	5.3	K	16 <sup>h</sup> 7 <sup>m</sup> 23.642	+4.7164	- 42	-54 25 59.28	-9.523	- 65
602	[δ Triang. austr.]	4.0	G	16 8 24.934	+5.4413	+ 7	-63 29 26.41	-9.404	- 26
603	δ Ophiuchi	2.8	Ma	16 10 18.511	+3.1422	- 30	- 3 29 50.01	-9.381	-150
606	19 Ursae min.	5.8	B 8	16 12 59.858	-1.7395	- 4	+76 4 19.31	-9.010	+ 12
604	γ <sup>2</sup> Normae	4.2	K	16 14 4.174	+4.4777	-190	-49 58 5.11	-9.000	- 61
605	ε Ophiuchi	3.2	K	16 14 14.699	+3.1723	+ 53	- 4 30 21.64	-8.894	+ 31
607	[ε Scorpil]	3.1	B I	16 16 30.265	+3.6428	- 11	-25 24 33.78	-8.781	- 33
608	τ Herculis	3.6	B 5	16 17 25.519	+1.8026	- 9	+46 29 45.65	-8.642	+ 32
609	γ Herculis	3.5	F	16 18 31.332	+2.6455	- 36	+19 19 58.67	-8.548	+ 40
612	[γ Ursae min.]	5.1	F	16 19 44.071	-1.7800	-217	+75 56 0.29	-8.237	+256
610	[ζ Triang. austr.]	5.2	G	16 20 9.808	+6.4224	+366	-69 54 46.77	-8.375	+ 83
611	γ Apodis	3.9	K	16 21 35.399	+9.1299	-385	-78 43 37.63	-8.416	- 71
613	[ω Herculis]	4.7	A p	16 21 51.672	+2.7678	+ 28	+14 12 33.88	-8.392	- 68
614	[Gr. 2343]	5.8	A	16 22 44.200	+1.3108	+ 20	+55 22 46.82	-8.236	+ 18
615	η Draconis	2.7	G 5	16 22 56.665	+0.8085	- 28	+61 41 17.54	-8.176	+ 61
616	α Scorpil	1.2	Ma p	16 24 40.964	+3.6753	- 7	-26 15 44.84	-8.127	- 28
618	β Herculis	2.6	K	16 26 54.539	+2.5784	- 69	+21 39 22.96	-7.941	- 21
617	[λ Ophiuchi]	3.7	A	16 27 1.694	+3.0244	- 23	+ 2 9 4.27	-8.001	- 90
619	λ Draconis	5.0	B 8 p	16 28 7.538	-0.1267	- 51	+68 56 5.18	-7.787	+ 35
620	[τ Scorpil]	2.9	B	16 31 5.116	+3.7310	- 11	-28 3 27.52	-7.616	- 33
621	σ Herculis	4.1	A	16 31 37.209	+1.9338	- 6	+42 35 42.21	-7.501	+ 38
622	ξ Ophiuchi	2.6	B	16 32 55.010	+3.3017	+ 9	-10 24 44.46	-7.412	+ 22
623	[Gr. 2373]	6.5	G 5	16 33 55.842	-2.6138	-319	+77 36 2.39	-7.077	+275
624	[24 Scorpil]	5.2	K	16 37 7.020	+3.4673	- 18	-17 35 39.72	-7.095	- 2
626	η Herculis	3.3	K	16 40 15.341	+2.0565	+ 34	+39 4 4.57	-6.919	- 84
625	α Triang. austr.	1.9	K 2	16 40 29.722	+6.3309	+ 32	-68 53 18.82	-6.863	- 49
627	[Gr. 2377]	4.9	F 5	16 43 50.078	+1.1365	+ 29	+56 55 8.16	-6.482	+ 58
628	ε Scorpil	2.3	K	16 45 10.303	+3.8814	-501	-34 9 17.19	-6.684	-255
629	49 Herculis	6.5	A	16 48 34.463	+2.7307	+ 12	+15 6 8.28	-6.153	- 6
630	ζ <sup>2</sup> Scorpil	3.8	K 5	16 49 9.551	+4.2150	-134	-42 13 51.25	-6.336	-238
631	ζ Arae	3.0	K 5	16 52 14.471	+4.9558	- 30	-55 52 12.95	-5.888	- 48
632	[ε <sup>1</sup> Arae]	4.0	K 2	16 53 26.357	+4.7726	- 19	-53 2 38.02	-5.748	- 8
633	z Ophiuchi	3.2	K	16 54 1.350	+2.8386	-198	+ 9 29 37.01	-5.704	- 13
634	ε Herculis	3.6	A	16 57 20.579	+2.2950	- 35	+31 2 19.93	-5.388	+ 24
635	[60 Herculis]	4.9	A 3	17 1 48.396	+2.7812	+ 34	+12 50 43.61	-5.050	- 15
636	[Gr. 2415]	6.4	A	17 5 15.987	+1.9564	- 29	+40 36 57.44	-4.770	- 28
637	η Ophiuchi	2.4	A	17 5 57.606	+3.4386	+ 23	-15 37 51.15	-4.593	+ 90
638	[η Scorpil]	3.4	F 2	17 6 38.072	+4.2929	+ 17	-43 8 21.20	-4.923	-298
639	ζ Draconis	3.0	B 5	17 8 33.622	+0.1698	- 29	+65 48 33.78	-4.440	+ 22
640	α Herculis	(3.0)	M b	17 11 8.133	+2.7348	- 8	+14 28 37.11	-4.213	+ 29



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641	♁ Herculis	3.0	A	17 <sup>h</sup> 11 <sup>m</sup> 52.093	+2.4638	— 15	+24 55 44.52	—4.337	—159
643	♁ Herculis	3.1	K 2	17 12 21.875	+2.0891	— 21	+36 53 42.32	—4.135	+ 1
642	[ι Apodis]	5.7	A	17 13 29.883	+6.6763	— 14	—70 2 40.40	—4.066	— 27
644	♁ Ophiuchi	3.2	B 3	17 17 16.705	+3.6823	— 7	—24 55 26.52	—3.740	— 25
645	β Arae	2.7	K 2	17 18 53.674	+4.9816	— 14	—55 27 32.16	—3.618	— 42
646	[ι Ophiuchi]	4.5	F 5	17 22 26.095	+3.8284	+ 6	—29 47 55.45	—3.416	—145
647	[27 H. Ophiuchi]	4.5	F	17 22 32.694	+3.1827	— 58	— 5 1 11.27	—3.312	— 51
648	δ Arae	3.6	B 8	17 24 8.612	+5.4105	— 70	—60 37 17.11	—3.225	—101
650	[α Herculis]	6.0	A	17 24 41.744	+1.5896	+ 2	+48 19 25.90	—3.094	— 19
649	[ν Scorpii]	2.8	B 3	17 25 31.463	+4.0746	— 24	—37 14 9.20	—3.043	— 39
651	α Arae	2.8	B 3 p	17 25 53.158	+4.6337	— 38	—49 49 0.82	—3.066	— 94
652	λ Scorpii	1.7	B 2	17 28 22.617	+4.0706	— 14	—37 2 56.71	—2.789	— 32
653	β Draconis	2.7	G	17 28 41.527	+1.3548	— 15	+52 21 28.06	—2.720	+ 10
655	[ <sup>1</sup> Draconis]	4.7	A 5	17 30 39.552	+1.1808	+176	+55 14 10.79	—2.508	+ 51
657	[ <sup>2</sup> Draconis]	4.8	A 5	17 30 44.970	+1.1821	+181	+55 13 29.55	—2.499	+ 52
656	α Ophiuchi	2.1	A 5	17 31 21.555	+2.7840	+ 79	+12 36 53.72	—2.732	—233
654	η Scorpii	1.9	F	17 31 46.966	+4.3073	0	—42 57 1.73	—2.480	— 18
659	[f Draconis]	5.2	K	17 32 16.136	—0.2444	— 32	+68 11 3.00	—2.286	+134
658	ξ Serpentinis	3.5	A 5	17 33 10.566	+3.4337	— 34	—15 21 5.08	—2.405	— 65
660	[z Scorpii]	2.5	B 2	17 37 9.510	+4.1478	— 15	—38 59 30.23	—2.021	— 26
663	ι Herculis	3.6	B 3	17 37 17.432	+1.6930	— 5	+46 2 47.38	—1.986	— 4
664	ω Draconis	4.9	F 5	17 37 23.979	—0.3535	+ 12	+68 47 37.28	—1.650	+323
662	[μ Arae]	5.6	K	17 38 1.675	+4.7599	— 29	—51 47 41.18	—2.127	—208
661	η Pavonis	3.5	K	17 38 10.253	+5.8834	— 22	—64 41 20.08	—1.962	— 56
665	β Ophiuchi	2.8	K	17 39 40.076	+2.9630	— 27	+ 4 35 53.61	—1.623	+153
666	[ι Scorpii]	3.0	F 5 p	17 42 11.803	+4.1936	— 10	—40 5 54.86	—1.558	— 3
670	ψ Draconis	4.7	F 5	17 43 18.229	—1.0722	+ 30	+72 11 13.36	—1.726	—267
667	μ Herculis	3.3	G 5	17 43 26.627	+2.3470	—241	+27 45 53.11	—2.198	—751
668	[γ Ophiuchi]	3.7	A	17 44 1.864	+3.0075	— 16	+ 2 44 6.13	—1.473	— 77
669	[G Scorpii]	3.1	K 2	17 44 36.928	+4.0824	+ 42	—37 1 12.83	—1.318	+ 26
671	ξ Draconis	3.6	K	17 52 11.824	+1.0373	+120	+56 53 3.42	—0.606	+ 77
675	35 Draconis	5.1	F 5	17 52 53.611	—2.6893	+114	+76 58 26.43	—0.380	+241
672	♁ Herculis	3.8	K	17 53 36.710	+2.0570	+ 4	+37 15 35.54	—0.554	+ 5
674	[ξ Herculis]	3.7	K	17 54 46.337	+2.3311	+ 66	+29 15 18.49	—0.483	— 25
673	ν Ophiuchi	3.4	K	17 54 47.204	+3.3020	— 7	— 9 45 55.39	—0.574	—118
676	γ Draconis	2.3	K 5	17 54 49.057	+1.3925	— 9	+51 29 50.43	—0.476	— 22
677	67 Ophiuchi	4.0	B 5 p	17 56 47.287	+3.0043	0	+ 2 56 2.67	—0.294	— 13
678	[Apodis 66 G.]	6.0	A	18 0 29.101	+8.3867	— 46	—75 53 45.29	—0.227	—270
679	γ Sagittarii	3.0	K	18 0 51.630	+3.8529	— 47	—30 25 35.37	—0.119	—194
680	72 Ophiuchi	3.6	A 2	18 3 41.919	+2.8438	— 42	+ 9 33 6.33	+0.402	+ 78

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681	$\delta$ Herculis	3.8	A	18 <sup>h</sup> 4 <sup>m</sup> 32.309	+2.3400	+ 2	+28 45 3.11	+0.397	0
682	$\mu$ Sagittarii	3.9	B 8 p	18 9 9.477	+3.5872	- 3	-21 4 49.36	+0.798	- 3
683	$\eta$ Sagittarii	3.1	M b	18 12 24.963	+4.0588	- 117	-36 47 10.36	+0.922	-163
684	[Gr. 2533]	5.6	B 5	18 13 15.034	+1.8654	- 6	+42 7 56.05	+1.151	- 7
685	$\zeta$ Draconis	5.0	F 5	18 13 27.205	+0.3453	+ 533	+64 22 15.61	+1.206	+ 30
687	$\delta$ Sagittarii	2.7	K	18 16 3.864	+3.8409	+ 27	-29 51 44.01	+1.372	- 32
686	$\xi$ Pavonis	4.2	K 2	18 16 7.808	+5.5284	- 26	-61 31 49.88	+1.427	+ 17
688	$\gamma$ Serpentis	3.2	K	18 17 19.503	+3.1035	- 372	- 2 55 12.14	+0.815	-699
689	$\epsilon$ Sagittarii	1.9	A	18 19 3.660	+3.9824	- 30	-34 25 20.66	+1.538	-127
690	$\theta$ Herculis	3.9	K	18 20 24.981	+2.5562	+ 140	+21 44 0.83	+1.526	-257
691	$\alpha$ Telescopii	3.7	B 3	18 21 15.851	+4.4490	- 21	-46 0 44.29	+1.810	- 47
693	$\zeta$ Draconis	4.3	A p	18 21 51.800	-0.8584	- 17	+71 17 49.59	+1.942	+ 33
695	$\gamma$ Draconis	3.6	F 8	18 22 26.790	-1.0803	+1168	+72 41 59.30	+1.597	-364
694	$\delta$ Draconis	5.1	A 2	18 22 47.181	+0.8765	- 45	+58 45 20.45	+2.048	+ 58
692	$\lambda$ Sagittarii	2.8	K	18 23 13.103	+3.7022	- 37	-25 27 56.24	+1.840	-188
696	$\zeta$ H. Scuti	4.8	A 3	18 24 48.516	+3.4190	- 3	-14 36 57.96	+2.168	+ 2
697	$\theta$ Coron. austr.	4.7	G 5	18 28 0.251	+4.2841	+ 14	-42 22 10.11	+2.420	- 24
700	[Gr. 2655]	6.1	K	18 33 28.663	-2.8859	- 10	+77 29 16.87	+2.915	- 3
698	$\xi$ Pavonis	4.0	K	18 34 2.715	+7.0194	- 25	-71 29 48.01	+2.790	-178
699	$\alpha$ Lyrae	1	A	18 34 19.870	+2.0313	+ 176	+38 42 40.09	+3.272	+281
701	[Gr. 2640]	6.2	A	18 35 58.815	+0.1891	+ 19	+65 25 10.83	+3.218	+ 84
702	$\xi$ H. Scuti	5.1	G	18 39 19.650	+3.2674	+ 13	- 8 21 8.91	+3.432	+ 9
703	$\theta$ Herculis	4.1	F 5	18 42 20.845	+2.5812	- 12	+20 28 17.60	+3.342	-340
704	$\lambda$ Pavonis	4.3	B 2	18 45 5.174	+5.5641	- 25	-62 16 39.90	+3.891	- 27
705	$\beta$ Lyrae	(3.3)	B 2 p	18 47 14.211	+2.2148	+ 3	+33 16 20.78	+4.101	- 2
707	$\delta$ Draconis	4.6	K	18 50 3.981	+0.8867	+ 105	+59 17 37.83	+4.369	+ 25
706	$\sigma$ Sagittarii	2.1	B 3	18 50 29.478	+3.7204	+ 4	-26 23 37.64	+4.318	- 63
708	$\lambda$ Telescopii	5.1	B 9	18 52 18.325	+4.8030	+ 3	-53 2 26.86	+4.550	+ 14
709	$\theta$ Serpent. pr.	4.5	A 5	18 52 23.496	+2.9823	+ 29	+ 4 6 7.89	+4.570	+ 28
711	$R$ Lyrae	(4.5)	M b	18 52 59.543	+1.8263	+ 28	+43 50 37.88	+4.670	+ 76
710	$\xi$ Sagittarii	3.6	K	18 53 8.211	+3.5792	+ 18	-21 12 33.13	+4.590	- 16
714	$\nu$ Draconis	5.0	K	18 55 20.801	-0.7272	+ 103	+71 11 40.26	+4.834	+ 40
713	$\gamma$ Lyrae	3.2	A	18 56 3.765	+2.2438	- 4	+32 34 58.89	+4.853	- 2
712	$\epsilon$ Aquilae	4.0	K	18 56 7.629	+2.7221	- 42	+14 57 45.38	+4.780	- 80
715	$\zeta$ Sagittarii	2.7	A 2	18 57 42.802	+3.8177	- 21	-29 59 29.37	+4.997	+ 2
716	$\xi$ Aquilae	3.0	A	19 1 52.242	+2.7570	- 7	+13 44 52.36	+5.245	-101
717	$\lambda$ Aquilae	3.2	A	19 2 9.770	+3.1838	- 16	- 4 59 57.05	+5.284	- 87
718	$\alpha$ Coron. austr.	4.1	A 2	19 4 14.094	+4.0830	+ 59	-38 1 33.26	+5.436	-109
719	$t$ Lyrae	5.2	B 5	19 4 33.230	+2.1406	- 3	+35 58 42.90	+5.568	- 3
720	$\pi$ Sagittarii	2.9	F 2	19 5 11.122	+3.5684	- 5	-21 8 50.36	+5.589	- 35

Nr.	N a m e	Gr.	Spektrum	Ab. 1923.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".0001	Dekl. 1923.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".001
721	[Pavonis 60 G.]	5.7	A 2	19 <sup>h</sup> 9 <sup>m</sup> 28.085	+6.0472	- 7	-66° 47' 45.37	+ 5.962	- 21
723	δ Draconis	3.0	K	19 12 32.501	+0.0196	+ 167	+67 31 33.74	+ 6.327	+ 88
722	[γ Sagittarii]	5.2	K 5	19 13 7.846	+3.5107	- 12	-19 5 28.10	+ 6.279	- 9
724	θ Lyrae	4.3	K	19 13 41.693	+2.0817	- 7	+37 59 44.63	+ 6.334	- 1
725	ω Aquilae	5.4	A	19 14 12.126	+2.8158	- 3	+11 27 19.70	+ 6.390	+ 13
726	z Cygni	3.8	K	19 15 19.443	+1.3874	+ 69	+53 13 32.83	+ 6.590	+ 119
729	τ Draconis	4.5	K	19 17 2.592	-1.1415	- 325	+73 12 46.74	+ 6.722	+ 110
727	[ν Sagittarii]	4.5	B 8 p	19 17 19.112	+3.4368	0	-16 6 2.53	+ 6.633	- 2
728	α Sagittarii	4.0	B 8	19 18 33.213	+4.1595	+ 18	-40 45 43.76	+ 6.619	- 118
730	δ Aquilae	3.3	F	19 21 36.969	+3.0248	+ 167	+ 2 57 36.43	+ 7.070	+ 81
731	[Sagittar. 186 G.]	5.8	A	19 22 4.610	+3.7931	+ 7	-29 53 48.38	+ 6.979	- 47
734	[Gr. 2900]	6.4	A	19 26 22.991	-3.5890	+ 96	+79 26 59.08	+ 7.342	- 35
732	β Cygni	3.0	K p	19 27 36.938	+2.4190	- 2	+27 47 49.20	+ 7.470	- 8
733	ι Cygni	3.9	A 2	19 27 45.907	+1.5131	+ 22	+51 33 54.24	+ 7.615	+ 125
735	[ι Telescopii]	5.1	K	19 29 30.393	+4.4540	- 41	-48 15 59.70	+ 7.591	- 40
736	κ Sagittarii	4.6	B 9	19 32 1.388	+3.6524	+ 46	-25 3 17.32	+ 7.812	- 22
737	[z Aquilae]	5.0	B	19 32 45.000	+3.2282	+ 3	- 7 11 59.19	+ 7.893	0
738	θ Cygni	4.5	F 5	19 34 22.585	+1.6083	- 29	+50 2 31.35	+ 8.270	+ 247
740	[15 Cygni]	5.2	K	19 41 29.955	+2.1632	+ 59	+37 10 3.20	+ 8.625	+ 35
739	[ν Telescopii]	5.5	A 5	19 41 44.301	+4.9080	+ 86	-56 32 56.83	+ 8.473	- 137
742	δ Cygni	2.8	A	19 42 34.119	+1.8756	+ 51	+44 56 31.32	+ 8.714	+ 39
741	γ Aquilae	2.7	K 2	19 42 35.934	+2.8520	+ 9	+10 25 28.60	+ 8.677	0
743	δ Sagittae	3.8	M a p	19 43 57.254	+2.6749	+ 4	+18 20 36.05	+ 8.797	+ 13
744	[51 Aquilae]	5.8	A	19 46 32.679	+3.3020	- 21	-10 57 35.66	+ 9.028	+ 41
745	α Aquilae	1	A 5	19 47 1.579	+2.9269	+ 360	+ 8 39 50.13	+ 9.407	+ 383
747	ε Draconis	3.8	K	19 48 26.516	-0.1925	+ 156	+70 4 18.45	+ 9.165	+ 30
746	[η Aquilae]	(4.0)	G	19 48 33.065	+3.0566	+ 6	+ 0 48 24.90	+ 9.135	- 9
749	β Aquilae	3.7	K	19 51 31.855	+2.9466	+ 25	+ 6 12 48.28	+ 8.895	- 480
748	ε Pavonis	3.8	A	19 51 42.710	+6.9774	+ 147	-73 6 56.77	+ 9.256	- 132
750	ψ Cygni	5.0	A 3	19 53 38.370	+1.5513	- 43	+52 14 2.13	+ 9.506	- 31
751	θ <sup>1</sup> Sagittarii	4.3	B 3	19 54 43.617	+3.9074	- 12	-35 29 8.89	+ 9.585	- 36
752	γ Sagittae	3.6	K 5	19 55 19.942	+2.6675	+ 43	+19 16 55.40	+ 9.691	+ 24
753	[c Sagittarii]	4.6	M b	19 57 55.552	+3.6915	+ 21	-27 55 30.34	+ 9.883	+ 18
754	δ Pavonis	3.5	G 5	20 1 11.218	+5.9074	+1961	-66 22 48.84	+ 8.950	- 1162
755	[E Telescopii]	5.2	M a	20 1 29.497	+4.6041	- 44	-53 6 9.65	+10.134	- 2
756	θ Aquilae	3.1	A	20 7 19.951	+3.0957	+ 22	- 1 3 3.28	+10.578	+ 5
757	σ <sup>1</sup> Cygni sq.	4.3	K p	20 11 12.415	+1.8892	+ 4	+46 30 25.50	+10.860	+ 1
759	z Cephei	4.3	B 9	20 11 30.609	-1.9800	+ 12	+77 28 48.75	+10.908	+ 27
758	[33 Cygni]	4.3	A 3	20 11 36.532	+1.3958	+ 74	+56 19 54.12	+10.974	+ 85
760	24 Vulpeculae	5.7	K	20 13 29.385	+2.5670	+ 12	+24 25 58.79	+11.007	- 19



Nr.	Name	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".0001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
761	α <sup>2</sup> Capricorni	3.6	K	20 13 <sup>m</sup> 47.035	+3.3298	+ 40	-12 47 4.21	+11.059	+ 11
762	[β Capricorni]	3.1	G p	20 16 41.195	+3.3718	+ 23	-15 1 32.11	+11.265	+ 6
763	[α Sagittarii]	5.8	A	20 17 14.154	+4.0807	+ 37	-42 17 36.64	+11.203	- 96
765	γ Cygni	2.3	F 8 p	20 19 27.856	+2.1528	+ 4	+40 0 34.13	+11.459	0
764	α Pavonis	1.9	B 3	20 19 33.977	+4.7606	+ 11	-56 58 59.07	+11.381	- 85
766	[ρ Capricorni]	5.0	F	20 24 28.233	+3.4236	- 14	-18 4 9.20	+11.800	- 16
767	θ Cephei	4.1	A	20 28 17.551	+1.0102	+ 62	+62 44 5.72	+12.070	- 14
768	ε Delphini	3.9	B 5	20 29 32.061	+2.8661	+ 5	+11 2 26.14	+12.145	- 25
769	α Jundi	3.0	K	20 32 9.406	+4.2271	+ 33	-47 33 40.34	+12.412	+ 60
770	73 Draconis	5.3	A 3	20 32 32.528	-0.7654	+ 15	+74 41 27.54	+12.367	- 12
771	β Delphini	3.5	F 5	20 33 56.291	+2.8130	+ 74	+14 19 34.87	+12.438	- 36
772	[α Delphini]	5.1	G 2	20 35 23.376	+2.9139	+ 212	+ 9 48 50.62	+12.591	+ 18
773	α Capricorni	5.5	M a	20 35 40.122	+3.4171	- 17	-18 24 38.80	+12.576	- 16
774	α Delphini	3.7	B 8	20 36 3.694	+2.7866	+ 45	+15 38 22.11	+12.613	- 6
775	β Pavonis	3.3	A 5	20 38 2.344	+5.4347	- 71	-66 28 53.02	+12.754	+ 2
776	[η Jundi]	4.8	F	20 38 23.543	+4.4158	+ 157	-52 11 50.45	+12.704	- 73
777	α Cygni	1.3	A 2	20 38 48.385	+2.0449	+ 4	+45 0 16.13	+12.804	- 1
778	[δ Delphini]	4.2	A 2	20 39 51.845	+2.8008	- 14	+14 47 50.67	+12.828	- 48
779	[ψ Capricorni]	4.2	F 8	20 41 32.370	+3.5550	- 44	-25 32 55.26	+12.831	- 157
780	ε Cygni	2.4	K	20 43 5.709	+2.4273	+ 290	+33 40 51.88	+13.418	+ 327
782	[6 H. Cephei]	4.5	G	20 43 26.486	+1.4896	- 87	+57 18 10.48	+12.879	- 234
781	ε Aquarii	3.6	A	20 43 30.545	+3.2486	+ 17	- 9 46 42.75	+13.090	- 28
783	η Cephei	3.5	K	20 43 43.571	+1.2235	+ 132	+61 32 21.45	+13.951	+ 818
784	λ Cygni	4.6	B 5	20 44 24.507	+2.3361	+ 5	+36 12 25.52	+13.177	0
785	β Jundi	3.6	K	20 48 48.146	+4.7039	0	-58 44 45.00	+13.437	- 27
786	32 Vulpeculae	5.3	K	20 51 16.663	+2.5564	- 4	+27 45 50.42	+13.626	+ 1
788	ν Cygni	3.9	A	20 54 18.101	+2.2359	+ 9	+40 52 11.85	+13.800	- 17
787	[α Octantis]	5.5	F 5	20 55 26.535	+7.3533	- 15	-77 19 8.60	+13.534	- 355
789	[II Aquarii]	6.4	F 8	20 56 30.613	+3.1595	+ 23	- 5 1 42.93	+13.824	- 133
790	ζ Microscopii	5.4	F	20 58 3.005	+3.8390	- 36	-38 55 59.66	+13.932	- 122
792	[ε Cygni]	3.9	K 5	21 2 7.771	+2.1819	+ 12	+43 37 11.76	+14.302	- 3
791	[A Capricorni]	4.6	M a	21 2 37.599	+3.5116	- 30	-25 18 52.69	+14.289	- 47
793	61 Cygni pr.	5.4	K 5	21 3 26.635	+2.6864	+3505	+38 22 12.05	+17.640	+3254
794	ν Aquarii	4.4	K	21 5 24.108	+3.2698	+ 62	-11 41 3.51	+14.495	- 9
795	Br. 2777	6.0	A	21 7 4.101	-1.1585	+ 74	+77 48 52.09	+14.641	+ 36
797	ζ Cygni	3.1	K	21 9 39.489	+2.5524	- 1	+29 54 37.23	+14.700	- 58
798	[Gr. 3415]	5.8	B 1	21 9 50.661	+1.5279	- 6	+59 40 10.05	+14.767	- 2
796	[Judi 23 G.]	5.9	A 5	21 10 16.251	+4.2931	- 19	-53 34 59.16	+14.748	- 46
799	[τ Cygni]	3.8	F	21 11 42.981	+2.3940	+ 137	+37 42 57.88	+15.315	+ 435
800	α Equulei	3.9	A 8 p	21 11 58.518	+2.9994	+ 38	+ 4 55 43.17	+14.808	- 87

Nr.	N a m e	Gr.	Spektrum	AR. 1923.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001	Dekl. 1923.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
801	[4 Pisc. austr.]	4.8	A	21 13 <sup>m</sup> 16.371	+3.6423	+ 35	-32 29 42.77	+14.944	- 26
802	[ <sup>11</sup> Microscop.]	4.9	A 2 p	21 15 50.528	+3.8462	+ 70	-41 8 8.75	+15.133	+ 14
803	α Cephei	2.5	A 5	21 16 44.567	+1.4333	+ 212	+62 15 32.13	+15.220	+ 49
804	ι Pegasi	4.2	K	21 18 31.495	+2.7740	+ 74	+19 28 27.36	+15.333	+ 61
805	γ Pavonis	4.2	F 8	21 20 5.753	+4.9887	+ 130	-65 42 57.00	+16.149	+ 788
806	ζ Capricorni	3.8	G p	21 22 16.447	+3.4285	- 1	-22 44 44.64	+15.505	+ 23
807	[γ Cygni]	5.4	K	21 26 36.404	+2.2130	+ 48	+46 12 1.57	+15.823	+ 103
808	β Aquarii	2.9	G	21 27 30.395	+3.1593	+ 11	- 5 54 38.44	+15.765	- 5
809	β Cephei	3.1	B I	21 27 40.402	+0.7825	+ 20	+70 13 20.94	+15.785	+ 7
810	ν Octantis	3.7	K	21 32 58.298	+6.7639	+ 132	-77 44 0.20	+15.803	- 256
811	74 Cygni	5.1	A 5	21 33 51.663	+2.4033	- 3	+40 4 1.17	+16.118	+ 12
812	[γ Capricorni]	3.6	F p	21 35 49.643	+3.3264	+ 131	-17 0 38.94	+16.192	- 16
813	[3 H. Cephei]	6.1	Oe 5	21 36 34.272	+1.8616	+ 7	+57 8 25.43	+16.248	+ 2
814	ι Pisc. austr.]	4.4	A	21 40 21.856	+3.5784	+ 18	-33 22 40.22	+16.349	- 89
815	ε Pegasi	2.3	K	21 40 24.241	+2.9464	+ 18	+ 9 31 16.47	+16.440	0
817	[II Cephei]	4.8	K	21 40 47.970	+0.8866	+ 234	+70 57 23.95	+16.558	+ 98
816	[α Pegasi]	4.1	F 5	21 41 9.428	+2.7157	+ 25	+25 17 25.59	+16.487	+ 10
818	[ζ Capricorni]	5.5	A	21 42 23.540	+3.2314	+ 20	-11 43 18.23	+16.535	- 4
819	δ Capricorni	2.8	A 5	21 42 47.584	+3.3134	+ 178	-16 28 38.76	+16.265	- 294
821	π <sup>2</sup> Cygni	4.3	B 3	21 43 56.817	+2.2151	+ 8	+48 57 9.66	+16.612	- 4
820	[6 Jndi]	5.6	K 5	21 44 17.807	+5.1120	- 87	-69 59 19.89	+16.612	- 21
822	γ Gruis	3.0	A	21 49 16.260	+3.6387	+ 77	-37 43 39.98	+16.853	- 18
823	16 Pegasi	5.2	B 3	21 49 33.444	+2.7287	+ 4	+25 33 44.08	+16.886	+ 1
824	[8 Jndi]	4.6	F	21 52 41.245	+4.0971	+ 43	-55 21 34.90	+17.001	- 29
826	[20 Pegasi]	5.8	F	21 57 20.238	+2.9221	+ 36	+12 45 1.49	+17.188	- 54
825	[ε Jndi]	4.9	K 5	21 57 28.925	+4.6063	+4810	-57 6 12.04	+14.668	- 2580
827	α Aquarii	2.9	G	22 1 49.781	+3.0817	+ 10	- 0 41 40.36	+17.432	- 7
828	ι Aquarii	4.2	B 8	22 2 16.836	+3.2418	+ 24	-14 14 37.82	+17.407	- 51
830	20 Cephei	5.7	K 5	22 2 40.017	+1.8222	+ 22	+62 24 34.57	+17.535	+ 60
829	α Gruis	1.8	B 5	22 3 23.256	+3.7909	+ 119	-47 20 5.27	+17.335	- 171
831	ι Pegasi	3.9	F 5	22 3 25.498	+2.7916	+ 219	+24 58 6.27	+17.529	+ 22
832	μ Pisc. austr.]	4.6	A 2	22 3 53.643	+3.5038	+ 41	-33 21 53.85	+17.487	- 41
833	[27 Pegasi]	5.8	K	22 5 48.831	+2.6570	- 42	+32 47 44.30	+17.543	- 65
834	θ Pegasi	3.6	A	22 6 18.947	+3.0263	+ 184	+ 5 49 6.36	+17.660	+ 31
835	π Pegasi	4.3	F 5	22 6 33.943	+2.6628	- 9	+32 47 59.45	+17.621	- 19
836	ζ Cephei	3.4	K	22 8 10.809	+2.0786	+ 14	+57 49 16.52	+17.712	+ 6
837	24 Cephei	4.8	K	22 8 19.845	+1.1570	+ 54	+71 57 42.09	+17.720	+ 8
838	[δ Pisc. austr.]	5.4	A	22 9 57.129	+3.4047	+ 16	-28 8 57.16	+17.777	- 1
839	[ε Octantis]	5.3	M b	22 11 28.573	+6.8591	+ 137	-80 49 26.62	+17.799	- 40
840	θ Aquarii	4.2	K	22 12 46.316	+3.1669	+ 76	- 8 10 2.16	+17.872	- 19

Nr.	Name	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0°.0001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0°.0001
841	$\alpha$ Tucanae	2.8	K 2	22 13 <sup>m</sup> 14.416	+4.1301	— 98	-60° 38' 38.92	+17.859	- 49
842	$\gamma$ Aquarii	3.7	A	22 17 40.785	+3.0990	+ 83	- 1 46 33.39	+18.087	+ 7
843	[31 Pegasi]	4.9	B 3p	22 17 43.619	+2.9520	— 1	+11 49 0.11	+18.091	+ 9
844	3 Lacertae	4.5	K	22 20 31.728	+2.3560	— 15	+51 50 34.00	+17.996	-191
845	[ $\nu$ Gruis]	5.6	K	22 24 8.708	+3.5229	+ 24	-39 31 18.98	+18.156	-162
846	[ $\delta$ Gruis]	4.0	G 5	22 24 40.396	+3.5938	+ 17	-43 53 22.41	+18.328	— 8
847	[ $\xi$ Cephei]	(4.1)	G	22 26 18.506	+2.2236	+ 17	+58 1 14.41	+18.396	+ 2
848	7 Lacertae	3.8	A	22 28 6.953	+2.4684	+ 147	+49 53 10.25	+18.472	+ 17
849	[ $\nu$ Aquarii]	5.5	F	22 30 29.089	+3.2846	+ 155	-21 6 11.36	+18.392	-144
850	$\eta$ Aquarii	3.9	B 8	22 31 24.010	+3.0832	+ 59	- 0 30 53.61	+18.510	- 55
851	[31 Cephei]	5.2	F	22 33 51.995	+1.4820	+ 382	+73 14 35.55	+18.669	+ 23
852	10 Lacertae	4.9	Oe 5	22 35 48.202	+2.6893	+ 4	+38 38 56.67	+18.701	- 6
853	[30 Cephei]	5.3	A 2	22 35 54.959	+2.1245	+ 1	+63 11 1.95	+18.689	- 22
854	[ $\epsilon$ Pisc. austr.]	4.0	B 8	22 36 23.985	+3.3215	+ 12	-27 26 44.30	+18.729	+ 2
855	$\zeta$ Pegasi	3.3	B 8	22 37 37.265	+2.9916	+ 53	+10 25 44.14	+18.751	- 13
856	$\beta$ Gruis	2.0	M b	22 38 4.516	+3.5910	+ 117	-47 17 16.60	+18.753	- 25
857	$\eta$ Pegasi	2.9	G	22 39 23.120	+2.8101	+ 12	+29 49 4.88	+18.785	- 33
858	[13 Lacertae]	5.4	K	22 40 39.232	+2.6721	— 6	+41 24 53.09	+18.861	+ 5
859	$\lambda$ Pegasi	3.9	K	22 42 49.217	+2.8879	+ 41	+23 9 36.05	+18.909	- 10
860	$\epsilon$ Gruis	3.5	A 2	22 43 54.640	+3.6344	+ 96	-51 43 20.18	+18.877	- 73
861	[ $\tau$ Aquarii]	4.0	K 5	22 45 31.006	+3.1780	— 12	-13 59 57.87	+18.963	- 33
862	[ $\mu$ Pegasi]	3.6	K	22 46 17.091	+2.8939	+ 109	+24 11 40.59	+18.977	- 41
863	$\iota$ Cephei	3.5	K	22 46 56.050	+2.1295	— 114	+65 47 42.51	+18.912	-123
864	$\lambda$ Aquarii	3.8	M a	22 48 35.907	+3.1307	+ 5	- 7 59 23.06	+19.118	+ 38
865	$\rho$ Indi	6.3	G	22 49 19.397	+4.2071	— 101	-70 29 7.90	+19.161	+ 62
866	$\delta$ Aquarii	3.2	A 2	22 50 33.930	+3.1855	— 33	-16 13 50.42	+19.113	- 19
867	$\alpha$ Pisc. austr.	1.2	A 3	22 53 23.930	+3.3188	+ 247	-30 1 50.35	+19.046	-159
868	[ $\zeta$ Gruis]	4.0	G 5	22 56 20.523	+3.5540	— 80	-53 10 2.84	+19.261	- 16
869	$\sigma$ Androm.	3.5	B 3	22 58 22.473	+2.7565	+ 25	+41 54 42.28	+19.312	- 13
870	$\beta$ Pegasi	2.4	M b	23 0 2.334	+2.9061	+ 145	+27 39 53.20	+19.500	+138
871	$\alpha$ Pegasi	2.4	A	23 0 55.125	+2.9869	+ 41	+14 47 26.22	+19.342	- 41
872	$\theta$ Gruis	4.2	F 5	23 2 32.790	+3.3870	— 52	-43 56 12.34	+19.381	- 38
873	$\epsilon^2$ Aquarii	3.7	K	23 5 20.590	+3.2009	+ 32	-21 35 26.36	+19.514	+ 36
874	$\pi$ Cephei	4.5	G 5	23 5 26.630	+1.9020	+ 29	+74 58 15.88	+19.454	- 25
875	Br. 3077	5.8	K	23 9 34.097	+2.8810	+2530	+56 44 34.63	+19.857	+296
876	[Tucanae 25 G.]	5.9	F	23 12 20.543	+3.6241	+ 231	-62 25 17.19	+19.561	- 53
877	$\gamma$ Tucanae	3.9	F 2	23 12 56.643	+3.5142	— 59	-58 39 29.28	+19.706	+ 82
878	[ $\gamma$ Piscium]	3.7	K	23 13 10.389	+3.1095	+ 503	+ 2 51 40.50	+19.646	+ 18
879	$\gamma$ Sculptoris	4.4	K	23 14 40.179	+3.2440	+ 10	-32 57 6.37	+19.587	- 68
880	$\tau$ Pegasi	4.5	A 5	23 16 49.399	+2.9670	+ 21	+23 19 6.79	+19.677	- 13



Nr.	Name	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".0001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".0001
882	4 Cassiopeiae	5.5	Ma p	23 <sup>h</sup> 21 <sup>m</sup> 24.578	+2.6558	+ 17	+61° 51' 35.49	+19.751	- 10
881	[5 Pegasi]	4.4	G	23 21 32.024	+2.9919	+138	+22 58 47.81	+19.799	+ 35
883	[6 Gruis]	5.7	F	23 22 18.314	+3.3644	- 4	-53 8 53.22	+19.893	+119
884	2 Piscium	5.1	A 2	23 22 59.103	+3.0753	+ 56	+ 0 50 1.87	+19.691	- 93
885	70 Pegasi	4.7	K	23 25 15.531	+3.0324	+ 38	+12 20 7.80	+19.843	+ 28
886	[3 Sculptoris]	4.4	B 9	23 28 50.760	+3.2220	+ 65	-38 14 39.77	+19.874	+ 14
887	[72 Pegasi]	5.2	K	23 30 7.772	+2.9728	+ 40	+30 54 0.68	+19.863	- 12
888	[Aquarii 248 G.]	6.7	A	23 31 33.782	+3.0952	- 5	- 7 53 26.61	+19.914	+ 23
889	[Phoenicis II G.]	4.6	A 2	23 33 42.542	+3.2354	+ 47	-45 55 7.95	+19.876	- 37
890	[1 Androm.]	3.8	K	23 33 47.373	+2.9302	+156	+46 2 26.82	+19.491	-423
891	1 Androm.	4.1	B 8	23 34 21.277	+2.9370	+ 27	+42 50 29.69	+19.915	- 5
892	1 Piscium	4.1	F 5	23 35 59.329	+3.0847	+247	+ 5 12 31.41	+19.495	-440
893	7 Cephei	3.3	K	23 36 10.435	+2.4439	-183	+77 12 9.25	+20.094	+157
894	62 Aquarii	4.5	A	23 38 43.833	+3.1123	+ 65	-14 58 14.78	+19.896	- 63
895	41 II. Cephei	5.2	A	23 44 13.049	+2.8544	+ 23	+67 22 44.13	+19.999	+ 1
896	Lac. 8 Sculpt.	4.4	A	23 44 55.048	+3.1277	+ 71	-28 33 22.40	+19.897	-105
897	[Aquarii 268 G.]	6.3	A	23 46 16.341	+3.0960	+ 86	-10 24 14.37	+20.096	+ 86
898	2 Pegasi	5.4	Ma	23 48 34.082	+3.0494	- 8	+18 41 33.13	+19.981	- 39
899	[4 Cassiopeiae]	4.8	F 8 p	23 50 31.662	+2.9868	- 7	+57 4 15.53	+20.032	+ 4
900	[27 Piscium]	5.1	F	23 54 43.851	+3.0712	- 37	- 3 58 59.54	+19.971	- 68
901	[1 Phoenicis]	5.2	K	23 54 56.612	+3.1151	+ 30	-53 10 34.28	+20.086	+ 46
902	6 Piscium	3.9	F 5	23 55 21.360	+3.0797	+100	+ 6 26 13.19	+19.932	-109
903	ε Tucanae	4.5	B 9	23 55 55.483	+3.1325	+ 64	-66 0 20.15	+20.009	- 33
904	[11 Octantis]	5.0	K	23 57 39.409	+3.1124	-219	-77 29 26.97	+19.873	-171
905	[2 Ceti]	4.5	A	23 59 47.776	+3.0743	+ 12	-17 45 52.64	+20.041	- 4

1) Nr. 257. Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist nach Auwers A. N. 3085 (vergl. Neuer Fundamental-Katalog, Seite 98):

$$1923.0: \Delta\alpha = -0''.220 \quad \Delta\delta = -1''.77$$

$$1924.0: \quad = -0.215 \quad = -1.86$$

2) Nr. 287. Rektaszension der Mitte, Deklination des folgenden helleren Sterns

3) Nr. 291. Ort des Schwerpunktes. Die Reduktion auf den Ort des hellen Sterns beträgt nach Auwers A. N. 3929 (vergl. Neuer Fundamental-Katalog, Seite 98):

$$1923.0: \Delta\alpha = -0''.016 \quad \Delta\delta = -10''.54$$

$$1924.0: \quad = -0.004 \quad = -10.58$$

4) Nr. 538. Schwerpunkt des Systems. Abstände vom Schwerpunkt nach See M. N. Dez. 1893 (vergl. Neuer Fundamental-Katalog, Seite 99):

$$\text{heller Stern } 1923.0: \Delta\alpha \quad +0''.554 \quad \Delta\delta \quad +4''.15$$

$$1924.0: \quad = +0.535 \quad = +3.82$$

$$\text{Begleiter } 1923.0: \Delta\alpha \quad -0''.652 \quad \Delta\delta \quad -4''.88$$

$$1924.0: \quad = -0.629 \quad = -4.49$$

Nr.	Name	Gr.	Spektrum	AR. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001	Dekl. 1923.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
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## Nördliche Polsterne

<i>Na</i>	43 H. Cephei	4.3	K	<sup>h</sup> 0 57 <sup>m</sup> 55 <sup>s</sup> 55	+ 7.748	+ 75	+85 50 41.64	+19.407	— 1
<i>Nb</i>	α Ursae min.	2.0	F 8	1 33 11.86	+30.571	+148	+88 53 34.23	+18.411	+ 1
<i>Nc</i>	Gr. 750	6.8	F	4 11 48.66	+17.726	+ 16	+85 21 5.04	+ 9.147	+ 32
<i>Nd</i>	51 H. Cephei	5.2	M a	7 4 58.97	+28.999	— 51	+87 10 21.33	— 5.643	— 35
<i>Ne</i>	1 H. Dracon.	4.3	K	9 26 14.26	+ 8.740	— 6	+81 40 7.36	—15.720	— 20
<i>Nf</i>	[30 H. Camel.]	5.2	F 5	10 21 49.97	+ 7.515	— 46	+82 57 5.59	—18.203	+ 31
<i>Ng</i>	ε Ursae min.	4.2	G 5	16 53 48.09	— 6.230	+ 7	+82 9 58.92	— 5.704	+ 6
<i>Nh</i>	δ Ursae min.	4.3	A	17 57 4.33	—19.496	+ 16	+86 36 50.72	— 0.199	+ 57
<i>Ni</i>	λ Ursae min.	6.8	M a	18 55 23.87	—73.327	— 97	+89 1 32.98	+ 4.806	+ 8
<i>Nk</i>	76 Draconis	6.0	A	20 48 15.49	— 4.198	+ 16	+82 14 50.79	+13.457	+ 27

## Südliche Polsterne

<i>Sa</i>	Octantis 4 G.	6	K	<sup>h</sup> 1 41 <sup>m</sup> 40 <sup>s</sup> 40	— 3.681	+ 18	—85 9 32.47	+18.139	+ 34
<i>Sb</i>	[ξ Mensae]	6.0	K	5 7 34.81	— 6.919	— 4	—82 34 32.47	+ 4.559	+ 14
<i>Sc</i>	ζ Octantis	6-5	F 5	9 8 9.79	— 8.234	— 94	—85 21 25.15	—14.621	+ 48
<i>Sd</i>	ι Octantis	6-5	K	12 46 43.39	+ 6.034	+ 42	—84 42 20.10	—19.605	+ 25
<i>Se</i>	Octantis 20 G.	7	M a	14 48 48.74	+26.679	—183	—87 50 20.21	—14.917	— 68
<i>Sf</i>	Octantis 26 G.	6-7	A 2	16 31 51.50	+21.871	+ 3	—86 13 43.73	— 7.522	— 2
<i>Sg</i>	γ Octantis	6	K 5	18 9 46.51	+35.704	— 90	—87 39 48.42	+ 0.727	—128
<i>Sh</i>	σ Octantis	6	A 8	19 37 2.31	+91.706	+111	—89 12 41.39	+ 8.236	0
<i>Si</i>	β Octantis	4.1	F	22 38 17.01	+ 6.278	— 26	—81 47 9.72	+18.787	+ 3
<i>Sk</i>	τ Octantis	6	K	23 17 9.12	+ 9.885	+ 21	—87 54 20.14	+19.711	+ 15

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden

Mittlere Zeit Greenw.	1) $\alpha$ Andromedae		2) $\beta$ Cassiopeiae		3) $\varepsilon$ Phoenicis		7) $\gamma$ Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$0^h 4^m$	$+28^\circ 39'$	$0^h 5^m$	$+58^\circ 43'$	$0^h 5^m$	$-46^\circ 9'$	$0^h 9^m$	$+14^\circ 45'$
Jan. 0.2	24.278 <sup>149</sup>	63.06 <sup>98</sup>	4.148 <sup>325</sup>	46.13 <sup>78</sup>	29.367 <sup>205</sup>	97.05 <sup>28</sup>	16.028 <sup>126</sup>	22.58 <sup>90</sup>
10.2	24.129 <sup>144</sup>	62.08 <sup>123</sup>	3.823 <sup>313</sup>	45.35 <sup>130</sup>	29.162 <sup>191</sup>	96.77 <sup>73</sup>	15.902 <sup>121</sup>	21.68 <sup>100</sup>
20.2	23.985 <sup>131</sup>	60.85 <sup>145</sup>	3.510 <sup>289</sup>	44.05 <sup>177</sup>	28.971 <sup>169</sup>	96.04 <sup>117</sup>	15.781 <sup>112</sup>	20.68 <sup>108</sup>
30.1	23.854 <sup>114</sup>	59.40 <sup>160</sup>	3.221 <sup>254</sup>	42.28 <sup>217</sup>	28.802 <sup>143</sup>	94.87 <sup>158</sup>	15.669 <sup>97</sup>	19.60 <sup>111</sup>
Feb. 9.1	23.740 <sup>89</sup>	57.80 <sup>169</sup>	2.967 <sup>204</sup>	40.11 <sup>247</sup>	28.659 <sup>110</sup>	93.29 <sup>195</sup>	15.572 <sup>76</sup>	18.49 <sup>108</sup>
19.1	23.651 <sup>58</sup>	56.11 <sup>169</sup>	2.763 <sup>146</sup>	37.64 <sup>268</sup>	28.549 <sup>73</sup>	91.34 <sup>227</sup>	15.496 <sup>50</sup>	17.41 <sup>102</sup>
März 1.1	23.593 <sup>22</sup>	54.42 <sup>164</sup>	2.617 <sup>77</sup>	34.96 <sup>279</sup>	28.476 <sup>31</sup>	89.07 <sup>254</sup>	15.446 <sup>18</sup>	16.39 <sup>88</sup>
11.0	23.571 <sup>19</sup>	52.78 <sup>149</sup>	2.540 <sup>2</sup>	32.17 <sup>276</sup>	28.445 <sup>15</sup>	86.53 <sup>276</sup>	15.428 <sup>17</sup>	15.51 <sup>70</sup>
21.0	23.590 <sup>65</sup>	51.29 <sup>128</sup>	2.538 <sup>77</sup>	29.41 <sup>264</sup>	28.460 <sup>64</sup>	83.77 <sup>293</sup>	15.445 <sup>58</sup>	14.81 <sup>47</sup>
31.0	23.655 <sup>111</sup>	50.01 <sup>99</sup>	2.615 <sup>157</sup>	26.77 <sup>240</sup>	28.524 <sup>116</sup>	80.84 <sup>302</sup>	15.503 <sup>99</sup>	14.34 <sup>20</sup>
Apr. 10.0	23.766 <sup>157</sup>	49.02 <sup>67</sup>	2.772 <sup>234</sup>	24.37 <sup>208</sup>	28.640 <sup>168</sup>	77.82 <sup>307</sup>	15.602 <sup>141</sup>	14.14 <sup>9</sup>
19.9	23.923 <sup>202</sup>	48.35 <sup>30</sup>	3.006 <sup>305</sup>	22.29 <sup>167</sup>	28.808 <sup>218</sup>	74.75 <sup>305</sup>	15.743 <sup>182</sup>	14.23 <sup>41</sup>
29.9	24.125 <sup>242</sup>	48.05 <sup>9</sup>	3.311 <sup>368</sup>	20.62 <sup>120</sup>	29.026 <sup>265</sup>	71.70 <sup>295</sup>	15.925 <sup>220</sup>	14.64 <sup>73</sup>
Mai 9.9	24.367 <sup>276</sup>	48.14 <sup>48</sup>	3.679 <sup>419</sup>	19.42 <sup>71</sup>	29.291 <sup>309</sup>	68.75 <sup>279</sup>	16.145 <sup>252</sup>	15.37 <sup>104</sup>
19.8	24.643 <sup>304</sup>	48.62 <sup>87</sup>	4.098 <sup>461</sup>	18.71 <sup>18</sup>	29.600 <sup>344</sup>	65.96 <sup>257</sup>	16.397 <sup>280</sup>	16.41 <sup>132</sup>
29.8	24.947 <sup>323</sup>	49.49 <sup>122</sup>	4.559 <sup>486</sup>	18.53 <sup>36</sup>	29.944 <sup>373</sup>	63.39 <sup>229</sup>	16.677 <sup>298</sup>	17.73 <sup>157</sup>
Juni 8.8	25.270 <sup>333</sup>	50.71 <sup>156</sup>	5.045 <sup>499</sup>	18.89 <sup>87</sup>	30.317 <sup>391</sup>	61.10 <sup>194</sup>	16.975 <sup>310</sup>	19.30 <sup>178</sup>
18.8	25.603 <sup>335</sup>	52.27 <sup>184</sup>	5.544 <sup>498</sup>	19.76 <sup>137</sup>	30.708 <sup>400</sup>	59.16 <sup>156</sup>	17.285 <sup>313</sup>	21.08 <sup>194</sup>
28.7	25.938 <sup>326</sup>	54.11 <sup>208</sup>	6.042 <sup>483</sup>	21.13 <sup>182</sup>	31.108 <sup>397</sup>	57.60 <sup>112</sup>	17.598 <sup>307</sup>	23.02 <sup>205</sup>
Juli 8.7	26.264 <sup>310</sup>	56.19 <sup>225</sup>	6.525 <sup>457</sup>	22.95 <sup>222</sup>	31.505 <sup>384</sup>	56.48 <sup>65</sup>	17.905 <sup>294</sup>	25.07 <sup>210</sup>
18.7	26.574 <sup>287</sup>	58.44 <sup>238</sup>	6.982 <sup>420</sup>	25.17 <sup>258</sup>	31.889 <sup>361</sup>	55.83 <sup>18</sup>	18.199 <sup>273</sup>	27.17 <sup>211</sup>
28.7	26.861 <sup>257</sup>	60.82 <sup>245</sup>	7.402 <sup>373</sup>	27.75 <sup>287</sup>	32.250 <sup>327</sup>	55.65 <sup>30</sup>	18.472 <sup>246</sup>	29.28 <sup>205</sup>
Aug. 7.6	27.118 <sup>222</sup>	63.27 <sup>245</sup>	7.775 <sup>320</sup>	30.62 <sup>308</sup>	32.577 <sup>286</sup>	55.95 <sup>76</sup>	18.718 <sup>215</sup>	31.33 <sup>196</sup>
17.6	27.340 <sup>183</sup>	65.72 <sup>242</sup>	8.095 <sup>260</sup>	33.70 <sup>325</sup>	32.863 <sup>238</sup>	56.71 <sup>121</sup>	18.933 <sup>178</sup>	33.29 <sup>182</sup>
27.6	27.523 <sup>142</sup>	68.14 <sup>232</sup>	8.355 <sup>198</sup>	36.95 <sup>334</sup>	33.101 <sup>183</sup>	57.92 <sup>159</sup>	19.111 <sup>141</sup>	35.11 <sup>165</sup>
Sept. 6.5	27.665 <sup>101</sup>	70.46 <sup>219</sup>	8.553 <sup>135</sup>	40.29 <sup>335</sup>	33.284 <sup>127</sup>	59.51 <sup>191</sup>	19.252 <sup>103</sup>	36.76 <sup>146</sup>
16.5	27.766 <sup>61</sup>	72.65 <sup>202</sup>	8.688 <sup>70</sup>	43.64 <sup>331</sup>	33.411 <sup>70</sup>	61.42 <sup>217</sup>	19.355 <sup>65</sup>	38.22 <sup>125</sup>
26.5	27.827 <sup>22</sup>	74.67 <sup>182</sup>	8.758 <sup>8</sup>	46.95 <sup>319</sup>	33.481 <sup>14</sup>	63.59 <sup>232</sup>	19.420 <sup>29</sup>	39.47 <sup>102</sup>
Okt. 6.5	27.849 <sup>13</sup>	76.49 <sup>159</sup>	8.766 <sup>52</sup>	50.14 <sup>300</sup>	33.495 <sup>40</sup>	65.91 <sup>240</sup>	19.449 <sup>3</sup>	40.49 <sup>79</sup>
16.4	27.836 <sup>44</sup>	78.08 <sup>133</sup>	8.714 <sup>107</sup>	53.14 <sup>276</sup>	33.455 <sup>86</sup>	68.31 <sup>236</sup>	19.446 <sup>33</sup>	41.28 <sup>57</sup>
26.4	27.792 <sup>73</sup>	79.41 <sup>106</sup>	8.607 <sup>159</sup>	55.90 <sup>244</sup>	33.369 <sup>127</sup>	70.67 <sup>223</sup>	19.413 <sup>57</sup>	41.85 <sup>35</sup>
Nov. 5.4	27.719 <sup>95</sup>	80.47 <sup>76</sup>	8.448 <sup>205</sup>	58.34 <sup>207</sup>	33.242 <sup>161</sup>	72.90 <sup>201</sup>	19.356 <sup>79</sup>	42.20 <sup>13</sup>
15.4	27.624 <sup>115</sup>	81.23 <sup>45</sup>	8.243 <sup>246</sup>	60.41 <sup>164</sup>	33.081 <sup>187</sup>	74.91 <sup>171</sup>	19.277 <sup>96</sup>	42.33 <sup>8</sup>
25.3	27.509 <sup>131</sup>	81.68 <sup>15</sup>	7.997 <sup>278</sup>	62.05 <sup>116</sup>	32.894 <sup>203</sup>	76.62 <sup>135</sup>	19.181 <sup>109</sup>	42.25 <sup>29</sup>
Dez. 5.3	27.378 <sup>141</sup>	81.83 <sup>18</sup>	7.719 <sup>304</sup>	63.21 <sup>64</sup>	32.691 <sup>213</sup>	77.97 <sup>94</sup>	19.072 <sup>119</sup>	41.96 <sup>47</sup>
15.3	27.237 <sup>148</sup>	81.65 <sup>50</sup>	7.415 <sup>321</sup>	63.85 <sup>10</sup>	32.478 <sup>215</sup>	78.91 <sup>48</sup>	18.953 <sup>124</sup>	41.49 <sup>65</sup>
25.2	27.089 <sup>151</sup>	81.15 <sup>80</sup>	7.094 <sup>328</sup>	63.95 <sup>44</sup>	32.263 <sup>210</sup>	79.39 <sup>1</sup>	18.829 <sup>127</sup>	40.84 <sup>80</sup>
35.2	26.938	80.35	6.766	63.51	32.053	79.40	18.702	40.04
Mittl. Ort	24.209	55.25	3.493	30.28	30.378	80.72	16.096	19.64
sec'd, tg $\delta$	1.139	+0.547	1.926	+1.646	1.444	1.042	1.034	+0.265



# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	9) $\epsilon$ Ceti		10) $\zeta$ Tucanae		11) $\beta$ Hydri		12) $\alpha$ Phoenicis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	$0^h 15^m$	$-9^\circ 14'$	$0^h 16^m$	$-65^\circ 19'$	$0^h 21^m$	$-77^\circ 40'$	$0^h 22^m$	$-42^\circ 43'$
1923								
Jan. 0.2	29.980 <sub>120</sub>	68.48 <sub>61</sub>	2.32 <sub>40</sub>	58.92 <sub>71</sub>	40.41 <sub>90</sub>	98.03 <sub>94</sub>	28.047 <sub>196</sub>	43.68 <sub>1</sub>
10.2	29.860 <sub>116</sub>	69.09 <sub>47</sub>	1.92 <sub>39</sub>	58.21 <sub>128</sub>	39.51 <sub>84</sub>	97.09 <sub>154</sub>	27.851 <sub>186</sub>	43.67 <sub>47</sub>
20.2	29.744 <sub>107</sub>	69.56 <sub>30</sub>	1.53 <sub>34</sub>	56.93 <sub>179</sub>	38.67 <sub>76</sub>	95.55 <sub>207</sub>	27.665 <sub>171</sub>	43.20 <sub>90</sub>
30.2	29.637 <sub>93</sub>	69.86 <sub>12</sub>	1.19 <sub>29</sub>	55.14 <sub>227</sub>	37.91 <sub>67</sub>	93.48 <sub>256</sub>	27.494 <sub>149</sub>	42.30 <sub>130</sub>
Feb. 9.1	29.544 <sub>73</sub>	69.98 <sub>8</sub>	0.90 <sub>24</sub>	52.87 <sub>268</sub>	37.24 <sub>54</sub>	90.92 <sub>296</sub>	27.345 <sub>122</sub>	41.00 <sub>170</sub>
19.1	29.471 <sub>50</sub>	69.90 <sub>29</sub>	0.66 <sub>17</sub>	50.19 <sub>301</sub>	36.70 <sub>42</sub>	87.96 <sub>330</sub>	27.223 <sub>89</sub>	39.30 <sub>203</sub>
März 1.1	29.421 <sub>21</sub>	69.61 <sub>52</sub>	0.49 <sub>10</sub>	47.18 <sub>329</sub>	36.28 <sub>27</sub>	84.66 <sub>354</sub>	27.134 <sub>50</sub>	37.27 <sub>233</sub>
11.0	29.400 <sub>13</sub>	69.09 <sub>76</sub>	0.39 <sub>3</sub>	43.89 <sub>347</sub>	36.01 <sub>12</sub>	81.12 <sub>370</sub>	27.084 <sub>8</sub>	34.94 <sub>258</sub>
21.0	29.413 <sub>50</sub>	68.33 <sub>99</sub>	0.36 <sub>5</sub>	40.42 <sub>359</sub>	35.89 <sub>4</sub>	77.42 <sub>378</sub>	27.076 <sub>39</sub>	32.36 <sub>277</sub>
31.0	29.463 <sub>89</sub>	67.34 <sub>123</sub>	0.41 <sub>14</sub>	36.83 <sub>363</sub>	35.93 <sub>18</sub>	73.64 <sub>378</sub>	27.115 <sub>88</sub>	29.59 <sub>291</sub>
Apr. 10.0	29.552 <sub>130</sub>	66.11 <sub>145</sub>	0.55 <sub>21</sub>	33.20 <sub>359</sub>	36.11 <sub>35</sub>	69.86 <sub>370</sub>	27.203 <sub>138</sub>	26.68 <sub>300</sub>
19.9	29.682 <sub>169</sub>	64.66 <sub>165</sub>	0.76 <sub>30</sub>	29.61 <sub>347</sub>	36.46 <sub>50</sub>	66.16 <sub>353</sub>	27.341 <sub>189</sub>	23.68 <sub>301</sub>
29.9	29.851 <sub>207</sub>	63.01 <sub>182</sub>	1.06 <sub>37</sub>	26.14 <sub>328</sub>	36.96 <sub>63</sub>	62.63 <sub>338</sub>	27.530 <sub>236</sub>	20.67 <sub>296</sub>
Mai 9.9	30.058 <sub>240</sub>	61.19 <sub>195</sub>	1.43 <sub>45</sub>	22.86 <sub>302</sub>	37.59 <sub>77</sub>	59.35 <sub>298</sub>	27.766 <sub>276</sub>	17.71 <sub>286</sub>
19.9	30.298 <sub>268</sub>	59.24 <sub>204</sub>	1.88 <sub>50</sub>	19.84 <sub>269</sub>	38.36 <sub>87</sub>	56.37 <sub>259</sub>	28.045 <sub>316</sub>	14.85 <sub>267</sub>
29.8	30.566 <sub>289</sub>	57.20 <sub>208</sub>	2.38 <sub>54</sub>	17.15 <sub>228</sub>	39.23 <sub>97</sub>	53.78 <sub>215</sub>	28.361 <sub>347</sub>	12.18 <sub>243</sub>
Juni 8.8	30.855 <sub>302</sub>	55.12 <sub>206</sub>	2.92 <sub>59</sub>	14.87 <sub>184</sub>	40.20 <sub>104</sub>	51.63 <sub>166</sub>	28.708 <sub>367</sub>	9.75 <sub>212</sub>
18.8	31.157 <sub>309</sub>	53.06 <sub>199</sub>	3.51 <sub>60</sub>	13.03 <sub>135</sub>	41.24 <sub>108</sub>	49.97 <sub>112</sub>	29.075 <sub>379</sub>	7.63 <sub>176</sub>
28.7	31.466 <sub>305</sub>	51.07 <sub>187</sub>	4.11 <sub>60</sub>	11.68 <sub>81</sub>	42.32 <sub>110</sub>	48.85 <sub>57</sub>	29.454 <sub>380</sub>	5.87 <sub>135</sub>
Juli 8.7	31.771 <sub>295</sub>	49.20 <sub>169</sub>	4.71 <sub>59</sub>	10.87 <sub>26</sub>	43.42 <sub>108</sub>	48.28 <sub>1</sub>	29.834 <sub>372</sub>	4.52 <sub>91</sub>
18.7	32.066 <sub>276</sub>	47.51 <sub>148</sub>	5.30 <sub>56</sub>	10.61 <sub>29</sub>	44.50 <sub>103</sub>	48.29 <sub>59</sub>	30.206 <sub>351</sub>	3.61 <sub>44</sub>
28.7	32.342 <sub>252</sub>	46.03 <sub>122</sub>	5.86 <sub>52</sub>	10.90 <sub>84</sub>	45.53 <sub>95</sub>	48.88 <sub>114</sub>	30.557 <sub>324</sub>	3.17 <sub>3</sub>
Aug. 7.6	32.594 <sub>221</sub>	44.81 <sub>95</sub>	6.38 <sub>46</sub>	11.74 <sub>135</sub>	46.48 <sub>85</sub>	50.02 <sub>166</sub>	30.881 <sub>288</sub>	3.20 <sub>51</sub>
17.6	32.815 <sub>186</sub>	43.86 <sub>65</sub>	6.84 <sub>38</sub>	13.09 <sub>182</sub>	47.33 <sub>72</sub>	51.68 <sub>214</sub>	31.169 <sub>244</sub>	3.71 <sub>95</sub>
27.6	33.001 <sub>149</sub>	43.21 <sub>36</sub>	7.22 <sub>30</sub>	14.91 <sub>223</sub>	48.05 <sub>57</sub>	53.82 <sub>252</sub>	31.413 <sub>195</sub>	4.66 <sub>136</sub>
Sept. 6.6	33.150 <sub>110</sub>	42.85 <sub>7</sub>	7.52 <sub>21</sub>	17.14 <sub>254</sub>	48.62 <sub>39</sub>	56.34 <sub>284</sub>	31.608 <sub>143</sub>	6.02 <sub>172</sub>
16.5	33.260 <sub>71</sub>	42.78 <sub>19</sub>	7.73 <sub>12</sub>	19.68 <sub>278</sub>	49.01 <sub>21</sub>	59.18 <sub>304</sub>	31.751 <sub>91</sub>	7.74 <sub>200</sub>
26.5	33.331 <sub>35</sub>	42.97 <sub>43</sub>	7.85 <sub>1</sub>	22.46 <sub>290</sub>	49.22 <sub>2</sub>	62.22 <sub>312</sub>	31.842 <sub>37</sub>	9.74 <sub>220</sub>
Okt. 6.5	33.366 <sub>2</sub>	43.40 <sub>63</sub>	7.86 <sub>7</sub>	25.36 <sub>291</sub>	49.24 <sub>17</sub>	65.34 <sub>310</sub>	31.879 <sub>12</sub>	11.94 <sub>232</sub>
16.4	33.368 <sub>20</sub>	44.03 <sub>78</sub>	7.79 <sub>16</sub>	28.27 <sub>281</sub>	49.07 <sub>35</sub>	68.44 <sub>295</sub>	31.867 <sub>57</sub>	14.26 <sub>233</sub>
26.4	33.339 <sub>55</sub>	44.81 <sub>89</sub>	7.63 <sub>23</sub>	31.08 <sub>258</sub>	48.72 <sub>50</sub>	71.39 <sub>268</sub>	31.810 <sub>97</sub>	16.59 <sub>226</sub>
Nov. 5.4	33.284 <sub>76</sub>	45.70 <sub>96</sub>	7.40 <sub>30</sub>	33.66 <sub>226</sub>	48.22 <sub>65</sub>	74.07 <sub>230</sub>	31.713 <sub>132</sub>	18.85 <sub>209</sub>
15.4	33.208 <sub>93</sub>	46.66 <sub>97</sub>	7.10 <sub>36</sub>	35.92 <sub>184</sub>	47.57 <sub>76</sub>	76.37 <sub>183</sub>	31.581 <sub>158</sub>	20.94 <sub>183</sub>
25.3	33.115 <sub>106</sub>	47.63 <sub>95</sub>	6.74 <sub>39</sub>	37.76 <sub>134</sub>	46.81 <sub>85</sub>	78.20 <sub>128</sub>	31.423 <sub>178</sub>	22.77 <sub>150</sub>
Dez. 5.3	33.009 <sub>115</sub>	48.58 <sub>89</sub>	6.35 <sub>41</sub>	39.10 <sub>81</sub>	45.96 <sub>90</sub>	79.48 <sub>69</sub>	31.245 <sub>191</sub>	24.27 <sub>113</sub>
15.3	32.894 <sub>119</sub>	49.47 <sub>80</sub>	5.94 <sub>42</sub>	39.91 <sub>22</sub>	45.06 <sub>92</sub>	80.17 <sub>6</sub>	31.054 <sub>197</sub>	25.40 <sub>70</sub>
25.3	32.775 <sub>121</sub>	50.27 <sub>69</sub>	5.52 <sub>41</sub>	40.13 <sub>36</sub>	44.14 <sub>91</sub>	80.23 <sub>57</sub>	30.857 <sub>198</sub>	26.10 <sub>26</sub>
35.2	32.654	50.96	5.11	39.77	43.23	79.66	30.659	26.36
Mittl. Ort sec $\delta$ , tg $\delta$	30.285 1.013	62.68 -0.163	4.08 2.396	38.62 -2.177	43.80 4.690	76.34 -4.582	28.825 1.361	27.35 -0.924

Mittlere Zeit Greenw.	13) $\zeta$ Ceti		17) $\zeta$ Cassiopeiae		18) $\pi$ Andromedae		20) $\delta$ Andromedae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$0^h 26^m$	$-4^\circ 22'$	$0^h 32^m$	$+53^\circ 28'$	$0^h 32^m$	$+33^\circ 17'$	$0^h 35^m$	$+30^\circ 26'$
Jan. 0.2	6.368 <sub>121</sub>	62.14 <sub>70</sub>	41.049 <sub>273</sub>	37.66 <sub>52</sub>	46.120 <sub>164</sub>	52.52 <sub>74</sub>	12.630 <sub>157</sub>	30.74 <sub>75</sub>
10.2	6.247 <sub>118</sub>	62.84 <sub>59</sub>	40.776 <sub>272</sub>	37.14 <sub>101</sub>	45.956 <sub>166</sub>	51.78 <sub>105</sub>	12.473 <sub>158</sub>	29.99 <sub>102</sub>
20.2	6.129 <sub>111</sub>	63.43 <sub>48</sub>	40.504 <sub>261</sub>	36.13 <sub>146</sub>	45.790 <sub>159</sub>	50.73 <sub>132</sub>	12.315 <sub>152</sub>	28.97 <sub>127</sub>
30.2	6.018 <sub>99</sub>	63.91 <sub>33</sub>	40.243 <sub>237</sub>	34.67 <sub>184</sub>	45.631 <sub>145</sub>	49.41 <sub>153</sub>	12.163 <sub>139</sub>	27.70 <sub>145</sub>
Feb. 9.1	5.919 <sub>82</sub>	64.24 <sub>16</sub>	40.006 <sub>203</sub>	32.83 <sub>216</sub>	45.486 <sub>123</sub>	47.88 <sub>168</sub>	12.024 <sub>119</sub>	26.25 <sub>158</sub>
19.1	5.837 <sub>59</sub>	64.40 <sub>2</sub>	39.803 <sub>158</sub>	30.67 <sub>239</sub>	45.363 <sub>94</sub>	46.20 <sub>177</sub>	11.905 <sub>91</sub>	24.67 <sub>165</sub>
März 1.1	5.778 <sub>31</sub>	64.38 <sub>23</sub>	39.645 <sub>103</sub>	28.28 <sub>251</sub>	45.269 <sub>57</sub>	44.43 <sub>176</sub>	11.814 <sub>56</sub>	23.02 <sub>162</sub>
11.0	5.747 <sub>2</sub>	64.15 <sub>46</sub>	39.542 <sub>41</sub>	25.77 <sub>253</sub>	45.212 <sub>16</sub>	42.67 <sub>169</sub>	11.758 <sub>15</sub>	21.40 <sub>154</sub>
21.0	5.749 <sub>39</sub>	63.69 <sub>69</sub>	39.501 <sub>28</sub>	23.24 <sub>244</sub>	45.196 <sub>33</sub>	40.98 <sub>152</sub>	11.743 <sub>30</sub>	19.86 <sub>138</sub>
31.0	5.788 <sub>79</sub>	63.00 <sub>94</sub>	39.529 <sub>98</sub>	20.80 <sub>226</sub>	45.229 <sub>82</sub>	39.46 <sub>129</sub>	11.773 <sub>78</sub>	18.48 <sub>114</sub>
Apr. 10.0	5.867 <sub>120</sub>	62.06 <sub>118</sub>	39.627 <sub>169</sub>	18.54 <sub>198</sub>	45.311 <sub>133</sub>	38.17 <sub>100</sub>	11.851 <sub>128</sub>	17.34 <sub>85</sub>
19.9	5.987 <sub>160</sub>	60.88 <sub>140</sub>	39.796 <sub>236</sub>	16.56 <sub>164</sub>	45.444 <sub>182</sub>	37.17 <sub>66</sub>	11.979 <sub>175</sub>	16.49 <sub>52</sub>
29.9	6.147 <sub>198</sub>	59.48 <sub>161</sub>	40.032 <sub>297</sub>	14.92 <sub>121</sub>	45.626 <sub>227</sub>	36.51 <sub>28</sub>	12.154 <sub>220</sub>	15.97 <sub>15</sub>
Mai 9.9	6.345 <sub>232</sub>	57.87 <sub>178</sub>	40.329 <sub>349</sub>	13.71 <sub>76</sub>	45.853 <sub>268</sub>	36.23 <sub>11</sub>	12.374 <sub>260</sub>	15.82 <sub>22</sub>
19.9	6.577 <sub>261</sub>	56.09 <sub>191</sub>	40.678 <sub>393</sub>	12.95 <sub>27</sub>	46.121 <sub>300</sub>	36.34 <sub>51</sub>	12.634 <sub>292</sub>	16.04 <sub>61</sub>
29.8	6.838 <sub>284</sub>	54.18 <sub>199</sub>	41.071 <sub>424</sub>	12.68 <sub>22</sub>	46.421 <sub>326</sub>	36.85 <sub>89</sub>	12.926 <sub>317</sub>	16.65 <sub>97</sub>
Juni 8.8	7.122 <sub>299</sub>	52.19 <sub>203</sub>	41.495 <sub>443</sub>	12.90 <sub>70</sub>	46.747 <sub>341</sub>	37.74 <sub>126</sub>	13.243 <sub>334</sub>	17.62 <sub>130</sub>
18.8	7.421 <sub>306</sub>	50.16 <sub>200</sub>	41.938 <sub>450</sub>	13.60 <sub>117</sub>	47.088 <sub>348</sub>	39.00 <sub>158</sub>	13.577 <sub>340</sub>	18.92 <sub>161</sub>
28.7	7.727 <sub>304</sub>	48.16 <sub>193</sub>	42.388 <sub>445</sub>	14.77 <sub>159</sub>	47.436 <sub>344</sub>	40.58 <sub>186</sub>	13.917 <sub>338</sub>	20.53 <sub>187</sub>
Juli 8.7	8.031 <sub>294</sub>	46.23 <sub>181</sub>	42.833 <sub>429</sub>	16.36 <sub>200</sub>	47.780 <sub>334</sub>	42.44 <sub>209</sub>	14.255 <sub>327</sub>	22.40 <sub>208</sub>
18.7	8.325 <sub>279</sub>	44.42 <sub>163</sub>	43.262 <sub>403</sub>	18.36 <sub>232</sub>	48.114 <sub>313</sub>	44.53 <sub>227</sub>	14.582 <sub>308</sub>	24.48 <sub>223</sub>
28.7	8.604 <sub>254</sub>	42.79 <sub>142</sub>	43.665 <sub>367</sub>	20.68 <sub>261</sub>	48.427 <sub>287</sub>	46.80 <sub>241</sub>	14.890 <sub>283</sub>	26.71 <sub>234</sub>
Aug. 7.6	8.858 <sub>226</sub>	41.37 <sub>118</sub>	44.032 <sub>325</sub>	23.29 <sub>284</sub>	48.714 <sub>254</sub>	49.21 <sub>247</sub>	15.173 <sub>251</sub>	29.05 <sub>238</sub>
17.6	9.084 <sub>193</sub>	40.19 <sub>92</sub>	44.357 <sub>276</sub>	26.13 <sub>300</sub>	48.968 <sub>218</sub>	51.68 <sub>248</sub>	15.424 <sub>216</sub>	31.43 <sub>238</sub>
27.6	9.277 <sub>156</sub>	39.27 <sub>63</sub>	44.633 <sub>225</sub>	29.13 <sub>309</sub>	49.186 <sub>178</sub>	54.16 <sub>245</sub>	15.640 <sub>178</sub>	33.81 <sub>232</sub>
Sept. 6.6	9.433 <sub>120</sub>	38.64 <sub>37</sub>	44.858 <sub>171</sub>	32.22 <sub>313</sub>	49.364 <sub>137</sub>	56.61 <sub>236</sub>	15.818 <sub>137</sub>	36.13 <sub>222</sub>
16.5	9.553 <sub>82</sub>	38.27 <sub>10</sub>	45.029 <sub>116</sub>	35.35 <sub>310</sub>	49.501 <sub>97</sub>	58.97 <sub>224</sub>	15.955 <sub>99</sub>	38.35 <sub>209</sub>
26.5	9.635 <sub>46</sub>	38.17 <sub>14</sub>	45.145 <sub>62</sub>	38.45 <sub>301</sub>	49.598 <sub>56</sub>	61.21 <sub>208</sub>	16.054 <sub>59</sub>	40.44 <sub>192</sub>
Okt. 6.5	9.681 <sub>12</sub>	38.31 <sub>35</sub>	45.207 <sub>9</sub>	41.46 <sub>286</sub>	49.654 <sub>20</sub>	63.29 <sub>187</sub>	16.113 <sub>23</sub>	42.36 <sub>172</sub>
16.4	9.693 <sub>16</sub>	38.66 <sub>53</sub>	45.216 <sub>40</sub>	44.32 <sub>264</sub>	49.674 <sub>15</sub>	65.16 <sub>165</sub>	16.136 <sub>10</sub>	44.08 <sub>149</sub>
26.4	9.677 <sub>44</sub>	39.19 <sub>67</sub>	45.176 <sub>88</sub>	46.96 <sub>239</sub>	49.659 <sub>47</sub>	66.81 <sub>139</sub>	16.126 <sub>41</sub>	45.57 <sub>124</sub>
Nov. 5.4	9.633 <sub>65</sub>	39.86 <sub>76</sub>	45.088 <sub>130</sub>	49.35 <sub>205</sub>	49.612 <sub>76</sub>	68.20 <sub>111</sub>	16.085 <sub>69</sub>	46.81 <sub>97</sub>
15.4	9.568 <sub>84</sub>	40.62 <sub>82</sub>	44.958 <sub>171</sub>	51.40 <sub>168</sub>	49.536 <sub>100</sub>	69.31 <sub>80</sub>	16.016 <sub>93</sub>	47.78 <sub>68</sub>
25.3	9.484 <sub>98</sub>	41.44 <sub>85</sub>	44.787 <sub>204</sub>	53.08 <sub>126</sub>	49.436 <sub>122</sub>	70.11 <sub>48</sub>	15.923 <sub>114</sub>	48.46 <sub>38</sub>
Dec. 5.3	9.386 <sub>108</sub>	42.29 <sub>84</sub>	44.583 <sub>233</sub>	54.34 <sub>79</sub>	49.314 <sub>140</sub>	70.59 <sub>14</sub>	15.809 <sub>131</sub>	48.84 <sub>7</sub>
15.3	9.278 <sub>116</sub>	43.13 <sub>80</sub>	44.350 <sub>256</sub>	55.13 <sub>30</sub>	49.174 <sub>153</sub>	70.73 <sub>19</sub>	15.678 <sub>145</sub>	48.91 <sub>25</sub>
25.3	9.162 <sub>120</sub>	43.93 <sub>73</sub>	44.094 <sub>270</sub>	55.43 <sub>20</sub>	49.021 <sub>163</sub>	70.54 <sub>54</sub>	15.533 <sub>154</sub>	48.66 <sub>55</sub>
35.2	9.042	44.66	43.824	55.23	48.858	70.00	15.379	48.11
Mittl. Ort see $\delta$ , tg $\delta$	6.552 1.003	57.60 -0.077	40.285 1.680	23.97 +1.350	45.796 1.196	44.36 +0.657	12.334 1.160	23.58 +0.588

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	21) $\alpha$ Cassiopeiae		22) $\beta$ Ceti		25) $\sigma$ Cassiopeiae		24) $\tau$ Cassiopeiae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$0^h 36^m$	$+56^\circ 6'$	$0^h 39^m$	$-18^\circ 24'$	$0^h 40^m$	$+47^\circ 51'$	$0^h 40^m$	$+74^\circ 33'$
Jan. 0.2	8.460 <sup>298</sup>	69.12 <sup>44</sup>	43.240 <sup>134</sup>	42.56 <sup>56</sup>	26.233 <sup>230</sup>	59.31 <sup>51</sup>	34.31 <sup>73</sup>	79.74 <sup>2</sup>
10.2	8.162 <sup>297</sup>	68.68 <sup>95</sup>	43.106 <sup>132</sup>	43.12 <sup>31</sup>	26.003 <sup>232</sup>	58.80 <sup>96</sup>	33.58 <sup>74</sup>	79.72 <sup>64</sup>
20.2	7.865 <sup>286</sup>	67.73 <sup>141</sup>	42.974 <sup>126</sup>	43.43 <sup>5</sup>	25.771 <sup>225</sup>	57.84 <sup>136</sup>	32.84 <sup>70</sup>	79.08 <sup>122</sup>
30.2	7.579 <sup>262</sup>	66.32 <sup>183</sup>	42.848 <sup>115</sup>	43.48 <sup>22</sup>	25.546 <sup>207</sup>	56.48 <sup>172</sup>	32.14 <sup>64</sup>	77.86 <sup>177</sup>
Feb. 9.1	7.317 <sup>226</sup>	64.49 <sup>217</sup>	42.733 <sup>98</sup>	43.26 <sup>49</sup>	25.339 <sup>180</sup>	54.76 <sup>199</sup>	31.50 <sup>56</sup>	76.09 <sup>223</sup>
19.1	7.091 <sup>178</sup>	62.32 <sup>242</sup>	42.635 <sup>76</sup>	42.77 <sup>76</sup>	25.159 <sup>141</sup>	52.77 <sup>219</sup>	30.94 <sup>45</sup>	73.86 <sup>261</sup>
März 1.1	6.913 <sup>119</sup>	59.90 <sup>257</sup>	42.559 <sup>47</sup>	42.01 <sup>102</sup>	25.018 <sup>96</sup>	50.58 <sup>231</sup>	30.49 <sup>32</sup>	71.25 <sup>287</sup>
11.1	6.794 <sup>52</sup>	57.33 <sup>261</sup>	42.512 <sup>15</sup>	40.99 <sup>128</sup>	24.922 <sup>41</sup>	48.27 <sup>230</sup>	30.17 <sup>18</sup>	68.38 <sup>301</sup>
21.0	6.742 <sup>21</sup>	54.72 <sup>254</sup>	42.497 <sup>24</sup>	39.71 <sup>153</sup>	24.881 <sup>19</sup>	45.97 <sup>222</sup>	29.99 <sup>2</sup>	65.37 <sup>304</sup>
31.0	6.763 <sup>96</sup>	52.18 <sup>237</sup>	42.521 <sup>63</sup>	38.18 <sup>175</sup>	24.900 <sup>81</sup>	43.75 <sup>203</sup>	29.97 <sup>13</sup>	62.33 <sup>295</sup>
Apr. 10.0	6.859 <sup>172</sup>	49.81 <sup>211</sup>	42.584 <sup>106</sup>	36.43 <sup>194</sup>	24.981 <sup>145</sup>	41.72 <sup>175</sup>	30.10 <sup>29</sup>	59.38 <sup>274</sup>
19.9	7.031 <sup>243</sup>	47.70 <sup>176</sup>	42.690 <sup>149</sup>	34.49 <sup>211</sup>	25.126 <sup>205</sup>	39.97 <sup>142</sup>	30.39 <sup>43</sup>	56.64 <sup>243</sup>
29.9	7.274 <sup>308</sup>	45.94 <sup>135</sup>	42.839 <sup>189</sup>	32.38 <sup>224</sup>	25.331 <sup>262</sup>	38.55 <sup>103</sup>	30.82 <sup>56</sup>	54.21 <sup>204</sup>
Mai 9.9	7.582 <sup>365</sup>	44.59 <sup>89</sup>	43.028 <sup>227</sup>	30.14 <sup>231</sup>	25.593 <sup>311</sup>	37.52 <sup>59</sup>	31.38 <sup>68</sup>	52.17 <sup>158</sup>
19.9	7.947 <sup>411</sup>	43.70 <sup>41</sup>	43.255 <sup>258</sup>	27.83 <sup>233</sup>	25.904 <sup>352</sup>	36.93 <sup>13</sup>	32.06 <sup>76</sup>	50.59 <sup>107</sup>
29.8	8.358 <sup>445</sup>	43.29 <sup>9</sup>	43.513 <sup>285</sup>	25.50 <sup>230</sup>	26.256 <sup>382</sup>	36.80 <sup>33</sup>	32.82 <sup>83</sup>	49.52 <sup>54</sup>
Juni 8.8	8.803 <sup>467</sup>	43.38 <sup>59</sup>	43.798 <sup>303</sup>	23.20 <sup>220</sup>	26.638 <sup>401</sup>	37.13 <sup>78</sup>	33.65 <sup>87</sup>	48.98 <sup>2</sup>
18.8	9.270 <sup>474</sup>	43.97 <sup>107</sup>	44.101 <sup>313</sup>	21.00 <sup>206</sup>	27.039 <sup>411</sup>	37.91 <sup>121</sup>	34.52 <sup>89</sup>	49.00 <sup>56</sup>
28.8	9.744 <sup>470</sup>	45.04 <sup>152</sup>	44.414 <sup>316</sup>	18.94 <sup>185</sup>	27.450 <sup>408</sup>	39.12 <sup>161</sup>	35.41 <sup>89</sup>	49.56 <sup>110</sup>
Juli 8.7	10.214 <sup>454</sup>	46.56 <sup>192</sup>	44.730 <sup>309</sup>	17.09 <sup>160</sup>	27.858 <sup>395</sup>	40.73 <sup>196</sup>	36.30 <sup>85</sup>	50.66 <sup>160</sup>
18.7	10.668 <sup>427</sup>	48.48 <sup>229</sup>	45.039 <sup>295</sup>	15.49 <sup>130</sup>	28.253 <sup>373</sup>	42.69 <sup>227</sup>	37.15 <sup>81</sup>	52.26 <sup>206</sup>
28.7	11.095 <sup>391</sup>	50.77 <sup>259</sup>	45.334 <sup>274</sup>	14.19 <sup>98</sup>	28.626 <sup>343</sup>	44.96 <sup>251</sup>	37.96 <sup>74</sup>	54.32 <sup>247</sup>
Aug. 7.6	11.486 <sup>346</sup>	53.36 <sup>283</sup>	45.608 <sup>245</sup>	13.21 <sup>63</sup>	28.969 <sup>305</sup>	47.47 <sup>270</sup>	38.70 <sup>65</sup>	56.79 <sup>283</sup>
17.6	11.832 <sup>297</sup>	56.19 <sup>302</sup>	45.853 <sup>213</sup>	12.58 <sup>27</sup>	29.274 <sup>264</sup>	50.17 <sup>284</sup>	39.35 <sup>57</sup>	59.62 <sup>313</sup>
27.6	12.129 <sup>242</sup>	59.21 <sup>313</sup>	46.066 <sup>176</sup>	12.31 <sup>8</sup>	29.538 <sup>217</sup>	53.01 <sup>291</sup>	39.92 <sup>46</sup>	62.75 <sup>336</sup>
Sept. 6.6	12.371 <sup>185</sup>	62.34 <sup>319</sup>	46.242 <sup>137</sup>	12.39 <sup>41</sup>	29.755 <sup>169</sup>	55.92 <sup>292</sup>	40.38 <sup>35</sup>	66.11 <sup>253</sup>
16.5	12.556 <sup>127</sup>	65.53 <sup>318</sup>	46.379 <sup>98</sup>	12.80 <sup>72</sup>	29.924 <sup>121</sup>	58.84 <sup>287</sup>	40.73 <sup>23</sup>	69.64 <sup>361</sup>
26.5	12.683 <sup>70</sup>	68.71 <sup>311</sup>	46.477 <sup>60</sup>	13.52 <sup>97</sup>	30.045 <sup>72</sup>	61.71 <sup>277</sup>	40.96 <sup>11</sup>	73.25 <sup>363</sup>
Okt. 6.5	12.753 <sup>14</sup>	71.82 <sup>297</sup>	46.537 <sup>23</sup>	14.49 <sup>117</sup>	30.117 <sup>27</sup>	64.48 <sup>262</sup>	41.07 <sup>1</sup>	76.88 <sup>356</sup>
16.5	12.767 <sup>40</sup>	74.79 <sup>277</sup>	46.560 <sup>10</sup>	15.66 <sup>131</sup>	30.144 <sup>19</sup>	67.10 <sup>242</sup>	41.06 <sup>12</sup>	80.44 <sup>342</sup>
26.4	12.727 <sup>91</sup>	77.56 <sup>251</sup>	46.550 <sup>39</sup>	16.97 <sup>139</sup>	30.125 <sup>60</sup>	69.52 <sup>215</sup>	40.94 <sup>25</sup>	83.86 <sup>320</sup>
Nov. 5.4	12.636 <sup>139</sup>	80.07 <sup>219</sup>	46.511 <sup>65</sup>	18.36 <sup>140</sup>	30.065 <sup>98</sup>	71.67 <sup>185</sup>	40.69 <sup>35</sup>	87.06 <sup>290</sup>
15.4	12.497 <sup>181</sup>	82.26 <sup>181</sup>	46.446 <sup>87</sup>	19.76 <sup>136</sup>	29.967 <sup>133</sup>	73.52 <sup>150</sup>	40.34 <sup>45</sup>	89.96 <sup>252</sup>
25.3	12.316 <sup>220</sup>	84.07 <sup>139</sup>	46.359 <sup>104</sup>	21.12 <sup>126</sup>	29.834 <sup>164</sup>	75.02 <sup>110</sup>	39.89 <sup>55</sup>	92.48 <sup>206</sup>
Dez. 5.3	12.096 <sup>253</sup>	85.46 <sup>91</sup>	46.255 <sup>117</sup>	22.38 <sup>110</sup>	29.670 <sup>191</sup>	76.12 <sup>68</sup>	39.34 <sup>62</sup>	94.54 <sup>155</sup>
15.3	11.843 <sup>277</sup>	86.37 <sup>41</sup>	46.138 <sup>125</sup>	23.48 <sup>92</sup>	29.479 <sup>211</sup>	76.80 <sup>24</sup>	38.72 <sup>69</sup>	96.09 <sup>97</sup>
25.3	11.566 <sup>294</sup>	86.78 <sup>11</sup>	46.013 <sup>132</sup>	24.40 <sup>70</sup>	29.268 <sup>226</sup>	77.04 <sup>22</sup>	38.03 <sup>73</sup>	97.06 <sup>38</sup>
35.2	11.272	86.67	45.881	25.10	29.042	76.82	37.30	97.44
Mittl. Ort see $\delta$ , $\tau$ $\delta$	7.575 1.794	54.99 +1.489	43.504 1.054	32.62 -0.333	25.562 1.490	47.33 +1.105	31.95 3.758	62.69 +3.623



Mittlere Zeit Greenw.	27) $\zeta$ Andromedae		32) $\gamma$ Cassiopeiae		33) $\mu$ Andromedae		35) $\alpha$ Sculptoris	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$0^h 43^m$	$+23^\circ 50'$	$0^h 52^m$	$+60^\circ 17'$	$0^h 52^m$	$+38^\circ 4'$	$0^h 54^m$	$-29^\circ 46'$
Jan. 0.3	15.436 <sup>143</sup>	59.33 <sup>74</sup>	4.05 <sup>34</sup>	74.59 <sup>17</sup>	28.914 <sup>181</sup>	64.02 <sup>53</sup>	53.460 <sup>160</sup>	38.68 <sup>50</sup>
10.2	15.293 <sup>145</sup>	58.59 <sup>94</sup>	3.71 <sup>35</sup>	74.42 <sup>70</sup>	28.733 <sup>185</sup>	63.49 <sup>88</sup>	53.300 <sup>139</sup>	39.18 <sup>14</sup>
20.2	15.148 <sup>141</sup>	57.65 <sup>111</sup>	3.36 <sup>35</sup>	73.72 <sup>121</sup>	28.548 <sup>183</sup>	62.61 <sup>120</sup>	53.141 <sup>154</sup>	39.32 <sup>23</sup>
30.2	15.007 <sup>131</sup>	56.54 <sup>125</sup>	3.01 <sup>32</sup>	72.51 <sup>168</sup>	28.365 <sup>171</sup>	61.41 <sup>148</sup>	52.987 <sup>143</sup>	39.09 <sup>60</sup>
Feb. 9.1	14.876 <sup>114</sup>	55.29 <sup>132</sup>	2.69 <sup>28</sup>	70.83 <sup>206</sup>	28.194 <sup>152</sup>	59.93 <sup>168</sup>	52.844 <sup>125</sup>	38.49 <sup>94</sup>
19.1	14.762 <sup>89</sup>	53.97 <sup>133</sup>	2.41 <sup>23</sup>	68.77 <sup>237</sup>	28.042 <sup>123</sup>	58.25 <sup>183</sup>	52.719 <sup>103</sup>	37.55 <sup>128</sup>
März 1.1	14.673 <sup>58</sup>	52.64 <sup>130</sup>	2.18 <sup>17</sup>	66.40 <sup>258</sup>	27.919 <sup>86</sup>	56.42 <sup>188</sup>	52.616 <sup>74</sup>	36.27 <sup>159</sup>
11.1	14.615 <sup>21</sup>	51.34 <sup>118</sup>	2.01 <sup>9</sup>	63.82 <sup>267</sup>	27.833 <sup>42</sup>	54.54 <sup>186</sup>	52.542 <sup>39</sup>	34.68 <sup>188</sup>
21.0	14.594 <sup>21</sup>	50.16 <sup>100</sup>	1.92 <sup>9</sup>	61.15 <sup>267</sup>	27.791 <sup>8</sup>	52.68 <sup>175</sup>	52.503 <sup>1</sup>	32.80 <sup>213</sup>
31.0	14.615 <sup>67</sup>	49.16 <sup>77</sup>	1.91 <sup>7</sup>	58.48 <sup>254</sup>	27.799 <sup>61</sup>	50.93 <sup>157</sup>	52.504 <sup>45</sup>	30.67 <sup>234</sup>
Apr. 10.0	14.682 <sup>113</sup>	48.39 <sup>50</sup>	1.98 <sup>16</sup>	55.94 <sup>233</sup>	27.860 <sup>116</sup>	49.36 <sup>130</sup>	52.549 <sup>89</sup>	28.33 <sup>251</sup>
20.0	14.795 <sup>160</sup>	47.89 <sup>19</sup>	2.14 <sup>24</sup>	53.61 <sup>202</sup>	27.976 <sup>169</sup>	48.06 <sup>99</sup>	52.638 <sup>136</sup>	25.82 <sup>264</sup>
29.9	14.955 <sup>203</sup>	47.70 <sup>15</sup>	2.38 <sup>31</sup>	51.59 <sup>163</sup>	28.145 <sup>220</sup>	47.07 <sup>63</sup>	52.774 <sup>180</sup>	23.18 <sup>270</sup>
Mai 9.9	15.158 <sup>241</sup>	47.85 <sup>49</sup>	2.69 <sup>38</sup>	49.96 <sup>120</sup>	28.365 <sup>265</sup>	46.44 <sup>23</sup>	52.954 <sup>222</sup>	20.48 <sup>271</sup>
19.9	15.399 <sup>274</sup>	48.34 <sup>83</sup>	3.07 <sup>44</sup>	48.76 <sup>72</sup>	28.630 <sup>304</sup>	46.21 <sup>17</sup>	53.176 <sup>260</sup>	17.77 <sup>266</sup>
29.8	15.673 <sup>300</sup>	49.17 <sup>114</sup>	3.51 <sup>48</sup>	48.04 <sup>22</sup>	28.934 <sup>332</sup>	46.38 <sup>57</sup>	53.436 <sup>289</sup>	15.11 <sup>254</sup>
Juni 8.8	15.973 <sup>316</sup>	50.31 <sup>142</sup>	3.99 <sup>51</sup>	47.82 <sup>28</sup>	29.266 <sup>352</sup>	46.95 <sup>96</sup>	53.725 <sup>313</sup>	12.57 <sup>236</sup>
18.8	16.289 <sup>325</sup>	51.73 <sup>168</sup>	4.50 <sup>52</sup>	48.10 <sup>78</sup>	29.618 <sup>364</sup>	47.91 <sup>132</sup>	54.038 <sup>328</sup>	10.21 <sup>212</sup>
28.8	16.614 <sup>324</sup>	53.41 <sup>187</sup>	5.02 <sup>53</sup>	48.88 <sup>125</sup>	29.982 <sup>364</sup>	49.23 <sup>165</sup>	54.366 <sup>334</sup>	8.09 <sup>182</sup>
Juli 8.7	16.938 <sup>316</sup>	55.28 <sup>202</sup>	5.55 <sup>51</sup>	50.13 <sup>169</sup>	30.346 <sup>355</sup>	50.88 <sup>193</sup>	54.700 <sup>331</sup>	6.27 <sup>148</sup>
18.7	17.254 <sup>300</sup>	57.30 <sup>213</sup>	6.06 <sup>48</sup>	51.82 <sup>209</sup>	30.701 <sup>338</sup>	52.81 <sup>215</sup>	55.031 <sup>319</sup>	4.79 <sup>109</sup>
28.7	17.554 <sup>276</sup>	59.43 <sup>217</sup>	6.54 <sup>45</sup>	53.91 <sup>243</sup>	31.039 <sup>314</sup>	54.96 <sup>234</sup>	55.350 <sup>299</sup>	3.70 <sup>67</sup>
Aug. 7.7	17.830 <sup>248</sup>	61.60 <sup>217</sup>	6.99 <sup>40</sup>	56.34 <sup>273</sup>	31.353 <sup>283</sup>	57.30 <sup>246</sup>	55.649 <sup>273</sup>	3.03 <sup>25</sup>
17.6	18.078 <sup>214</sup>	63.77 <sup>212</sup>	7.39 <sup>36</sup>	59.07 <sup>295</sup>	31.636 <sup>248</sup>	59.76 <sup>253</sup>	55.922 <sup>240</sup>	2.78 <sup>18</sup>
27.6	18.292 <sup>179</sup>	65.89 <sup>202</sup>	7.75 <sup>29</sup>	62.02 <sup>312</sup>	31.884 <sup>208</sup>	62.29 <sup>254</sup>	56.162 <sup>201</sup>	2.96 <sup>59</sup>
Sept. 6.6	18.471 <sup>141</sup>	67.91 <sup>189</sup>	8.04 <sup>24</sup>	65.14 <sup>322</sup>	32.092 <sup>168</sup>	64.83 <sup>251</sup>	56.363 <sup>161</sup>	3.55 <sup>98</sup>
16.5	18.612 <sup>104</sup>	69.80 <sup>173</sup>	8.28 <sup>17</sup>	68.36 <sup>327</sup>	32.260 <sup>126</sup>	67.34 <sup>243</sup>	56.524 <sup>119</sup>	4.53 <sup>131</sup>
26.5	18.716 <sup>67</sup>	71.53 <sup>155</sup>	8.45 <sup>11</sup>	71.63 <sup>323</sup>	32.386 <sup>85</sup>	69.77 <sup>230</sup>	56.643 <sup>76</sup>	5.84 <sup>158</sup>
Okt. 6.5	18.783 <sup>34</sup>	73.08 <sup>134</sup>	8.56 <sup>4</sup>	74.86 <sup>314</sup>	32.471 <sup>45</sup>	72.07 <sup>214</sup>	56.719 <sup>35</sup>	7.42 <sup>178</sup>
16.5	18.817 <sup>0</sup>	74.42 <sup>112</sup>	8.60 <sup>2</sup>	78.00 <sup>298</sup>	32.516 <sup>8</sup>	74.21 <sup>193</sup>	56.754 <sup>4</sup>	9.20 <sup>191</sup>
26.4	18.817 <sup>29</sup>	75.54 <sup>89</sup>	8.58 <sup>7</sup>	80.98 <sup>275</sup>	32.524 <sup>28</sup>	76.14 <sup>170</sup>	56.750 <sup>38</sup>	11.11 <sup>195</sup>
Nov. 5.4	18.788 <sup>55</sup>	76.43 <sup>65</sup>	8.51 <sup>14</sup>	83.73 <sup>246</sup>	32.496 <sup>61</sup>	77.84 <sup>143</sup>	56.712 <sup>69</sup>	13.06 <sup>191</sup>
15.4	18.733 <sup>78</sup>	77.08 <sup>41</sup>	8.37 <sup>19</sup>	86.19 <sup>211</sup>	32.435 <sup>90</sup>	79.27 <sup>112</sup>	56.643 <sup>95</sup>	14.97 <sup>178</sup>
25.4	18.655 <sup>98</sup>	77.49 <sup>15</sup>	8.18 <sup>23</sup>	88.30 <sup>168</sup>	32.345 <sup>117</sup>	80.39 <sup>79</sup>	56.548 <sup>117</sup>	16.75 <sup>160</sup>
Dez. 5.3	18.557 <sup>116</sup>	77.64 <sup>9</sup>	7.95 <sup>28</sup>	89.98 <sup>122</sup>	32.228 <sup>142</sup>	81.18 <sup>45</sup>	56.431 <sup>135</sup>	18.35 <sup>134</sup>
15.3	18.441 <sup>129</sup>	77.55 <sup>35</sup>	7.67 <sup>31</sup>	91.20 <sup>72</sup>	32.086 <sup>160</sup>	81.63 <sup>7</sup>	56.296 <sup>147</sup>	19.69 <sup>104</sup>
25.3	18.312 <sup>135</sup>	77.20 <sup>58</sup>	7.36 <sup>34</sup>	91.92 <sup>18</sup>	31.926 <sup>175</sup>	81.70 <sup>29</sup>	56.149 <sup>154</sup>	20.73 <sup>71</sup>
35.2	18.173	76.62	7.02	92.10	31.751	81.41	55.995	21.44
Mittl. Ort	15.183	54.67	2.83	60.30	28.371	55.27	53.762	24.56
sec $\delta$ , tg $\delta$	1.093	+0.442	2.018	+1.753	1.270	+0.784	1.152	-0.572

Mittlere Zeit Greenw.	36) $\alpha$ Piscium		38) $\beta$ Phoenicis		42) $\beta$ Andromedae		45) $\gamma$ Piscium	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	$0^h 58^m$	$+7^\circ 28'$	$1^h 2^m$	$-47^\circ 7'$	$1^h 5^m$	$+35^\circ 12'$	$1^h 15^m$	$+26^\circ 51'$
1923								
Jan. 0.3	56.830 <sub>125</sub>	31.65 <sub>73</sub>	38.408 <sub>234</sub>	70.59 <sub>30</sub>	25.462 <sub>169</sub>	53.08 <sub>46</sub>	14.243 <sub>146</sub>	39.26 <sub>52</sub>
10.2	56.705 <sub>129</sub>	30.92 <sub>76</sub>	38.174 <sub>233</sub>	70.89 <sub>21</sub>	25.293 <sub>177</sub>	52.62 <sub>79</sub>	14.097 <sub>155</sub>	38.74 <sub>75</sub>
20.2	56.576 <sub>128</sub>	30.16 <sub>75</sub>	37.941 <sub>224</sub>	70.68 <sub>69</sub>	25.116 <sub>177</sub>	51.83 <sub>108</sub>	13.942 <sub>158</sub>	37.99 <sub>95</sub>
30.2	56.448 <sub>122</sub>	29.41 <sub>73</sub>	37.717 <sub>209</sub>	69.99 <sub>117</sub>	24.939 <sub>169</sub>	50.75 <sub>133</sub>	13.784 <sub>153</sub>	37.04 <sub>112</sub>
Feb. 9.2	56.326 <sub>109</sub>	28.68 <sub>65</sub>	37.508 <sub>185</sub>	68.82 <sub>161</sub>	24.770 <sub>153</sub>	49.42 <sub>153</sub>	13.631 <sub>141</sub>	35.92 <sub>124</sub>
19.1	56.217 <sub>89</sub>	28.03 <sub>56</sub>	37.323 <sub>156</sub>	67.21 <sub>201</sub>	24.617 <sub>127</sub>	47.89 <sub>166</sub>	13.490 <sub>120</sub>	34.68 <sub>132</sub>
März 1.1	56.128 <sub>63</sub>	27.47 <sub>42</sub>	37.167 <sub>119</sub>	65.20 <sub>236</sub>	24.490 <sub>95</sub>	46.23 <sub>172</sub>	13.370 <sub>91</sub>	33.36 <sub>133</sub>
11.1	56.065 <sub>31</sub>	27.05 <sub>24</sub>	37.048 <sub>75</sub>	62.84 <sub>266</sub>	24.395 <sub>53</sub>	44.51 <sub>169</sub>	13.279 <sub>56</sub>	32.03 <sub>126</sub>
21.1	56.034 <sub>7</sub>	26.81 <sub>3</sub>	36.973 <sub>27</sub>	60.18 <sub>291</sub>	24.342 <sub>6</sub>	42.82 <sub>160</sub>	13.223 <sub>13</sub>	30.77 <sub>115</sub>
31.0	56.041 <sub>47</sub>	26.78 <sub>20</sub>	36.946 <sub>27</sub>	57.27 <sub>309</sub>	24.336 <sub>45</sub>	41.22 <sub>142</sub>	13.210 <sub>33</sub>	29.62 <sub>96</sub>
Apr. 10.0	56.088 <sub>90</sub>	26.98 <sub>45</sub>	36.973 <sub>82</sub>	54.18 <sub>321</sub>	24.381 <sub>98</sub>	39.80 <sub>119</sub>	13.243 <sub>82</sub>	28.66 <sub>73</sub>
20.0	56.178 <sub>134</sub>	27.43 <sub>72</sub>	37.055 <sub>138</sub>	50.97 <sub>327</sub>	24.479 <sub>151</sub>	38.61 <sub>88</sub>	13.325 <sub>132</sub>	27.93 <sub>44</sub>
29.9	56.312 <sub>174</sub>	28.15 <sub>97</sub>	37.193 <sub>193</sub>	47.70 <sub>324</sub>	24.630 <sub>202</sub>	37.73 <sub>55</sub>	13.457 <sub>178</sub>	27.49 <sub>14</sub>
Mai 9.9	56.486 <sub>214</sub>	29.12 <sub>122</sub>	37.386 <sub>245</sub>	44.46 <sub>315</sub>	24.832 <sub>247</sub>	37.18 <sub>18</sub>	13.635 <sub>221</sub>	27.35 <sub>19</sub>
19.9	56.700 <sub>246</sub>	30.34 <sub>145</sub>	37.631 <sub>291</sub>	41.31 <sub>299</sub>	25.079 <sub>285</sub>	37.00 <sub>20</sub>	13.856 <sub>260</sub>	27.54 <sub>52</sub>
29.9	56.946 <sub>272</sub>	31.79 <sub>163</sub>	37.922 <sub>331</sub>	38.32 <sub>276</sub>	25.364 <sub>317</sub>	37.20 <sub>57</sub>	14.116 <sub>290</sub>	28.06 <sub>84</sub>
Juni 8.8	57.218 <sub>292</sub>	33.42 <sub>177</sub>	38.253 <sub>363</sub>	35.56 <sub>245</sub>	25.681 <sub>339</sub>	37.77 <sub>94</sub>	14.406 <sub>312</sub>	28.90 <sub>114</sub>
18.8	57.510 <sub>304</sub>	35.19 <sub>188</sub>	38.616 <sub>384</sub>	33.11 <sub>209</sub>	26.020 <sub>351</sub>	38.71 <sub>128</sub>	14.718 <sub>327</sub>	30.04 <sub>142</sub>
28.8	57.814 <sub>306</sub>	37.07 <sub>193</sub>	39.000 <sub>396</sub>	31.02 <sub>166</sub>	26.371 <sub>355</sub>	39.99 <sub>157</sub>	15.045 <sub>332</sub>	31.46 <sub>164</sub>
Juli 8.8	58.120 <sub>302</sub>	39.00 <sub>192</sub>	39.396 <sub>396</sub>	29.36 <sub>121</sub>	26.726 <sub>350</sub>	41.56 <sub>184</sub>	15.377 <sub>329</sub>	33.10 <sub>183</sub>
18.7	58.422 <sub>289</sub>	40.92 <sub>187</sub>	39.792 <sub>387</sub>	28.15 <sub>70</sub>	27.076 <sub>335</sub>	43.40 <sub>205</sub>	15.706 <sub>318</sub>	34.93 <sub>197</sub>
28.7	58.711 <sub>271</sub>	42.79 <sub>177</sub>	40.179 <sub>366</sub>	27.45 <sub>19</sub>	27.411 <sub>314</sub>	45.45 <sub>221</sub>	16.024 <sub>299</sub>	36.90 <sub>206</sub>
Aug. 7.7	58.982 <sub>246</sub>	44.56 <sub>163</sub>	40.545 <sub>336</sub>	27.26 <sub>34</sub>	27.725 <sub>286</sub>	47.66 <sub>231</sub>	16.323 <sub>275</sub>	38.96 <sub>209</sub>
17.6	59.228 <sub>216</sub>	46.19 <sub>145</sub>	40.881 <sub>297</sub>	27.60 <sub>83</sub>	28.011 <sub>254</sub>	49.97 <sub>238</sub>	16.598 <sub>246</sub>	41.05 <sub>209</sub>
27.6	59.444 <sub>184</sub>	47.64 <sub>125</sub>	41.178 <sub>252</sub>	28.43 <sub>131</sub>	28.265 <sub>217</sub>	52.35 <sub>238</sub>	16.844 <sub>212</sub>	43.14 <sub>204</sub>
Sept. 6.6	59.628 <sub>150</sub>	48.89 <sub>103</sub>	41.430 <sub>201</sub>	29.74 <sub>174</sub>	28.482 <sub>178</sub>	54.73 <sub>234</sub>	17.056 <sub>178</sub>	45.18 <sub>195</sub>
16.6	59.778 <sub>115</sub>	49.92 <sub>79</sub>	41.631 <sub>148</sub>	31.48 <sub>208</sub>	28.660 <sub>140</sub>	57.07 <sub>226</sub>	17.234 <sub>142</sub>	47.13 <sub>183</sub>
26.5	59.893 <sub>81</sub>	50.71 <sub>57</sub>	41.779 <sub>92</sub>	33.56 <sub>236</sub>	28.800 <sub>100</sub>	59.33 <sub>213</sub>	17.376 <sub>106</sub>	48.96 <sub>167</sub>
Okt. 6.5	59.974 <sub>48</sub>	51.28 <sub>35</sub>	41.871 <sub>37</sub>	35.92 <sub>254</sub>	28.900 <sub>62</sub>	61.46 <sub>198</sub>	17.482 <sub>71</sub>	50.63 <sub>150</sub>
16.5	60.022 <sub>17</sub>	51.63 <sub>15</sub>	41.908 <sub>15</sub>	38.46 <sub>262</sub>	28.962 <sub>25</sub>	63.44 <sub>178</sub>	17.553 <sub>37</sub>	52.13 <sub>131</sub>
26.5	60.039 <sub>10</sub>	51.78 <sub>4</sub>	41.893 <sub>64</sub>	41.08 <sub>259</sub>	28.987 <sub>9</sub>	65.22 <sub>156</sub>	17.590 <sub>5</sub>	53.44 <sub>110</sub>
Nov. 5.4	60.029 <sub>36</sub>	51.74 <sub>21</sub>	41.829 <sub>108</sub>	43.67 <sub>245</sub>	28.978 <sub>42</sub>	66.78 <sub>131</sub>	17.595 <sub>24</sub>	54.54 <sub>88</sub>
15.4	59.993 <sub>58</sub>	51.53 <sub>34</sub>	41.721 <sub>145</sub>	46.12 <sub>222</sub>	28.936 <sub>71</sub>	68.09 <sub>104</sub>	17.571 <sub>52</sub>	55.42 <sub>65</sub>
25.4	59.935 <sub>78</sub>	51.19 <sub>47</sub>	41.576 <sub>176</sub>	48.34 <sub>191</sub>	28.865 <sub>99</sub>	69.13 <sub>74</sub>	17.519 <sub>78</sub>	56.07 <sub>40</sub>
Dez. 5.3	59.857 <sub>94</sub>	50.72 <sub>56</sub>	41.400 <sub>201</sub>	50.25 <sub>151</sub>	28.766 <sub>124</sub>	69.87 <sub>42</sub>	17.441 <sub>101</sub>	56.47 <sub>16</sub>
15.3	59.763 <sub>109</sub>	50.16 <sub>64</sub>	41.199 <sub>217</sub>	51.76 <sub>107</sub>	28.642 <sub>145</sub>	70.29 <sub>9</sub>	17.340 <sub>121</sub>	56.63 <sub>10</sub>
25.3	59.654 <sub>119</sub>	49.52 <sub>70</sub>	40.982 <sub>228</sub>	52.83 <sub>60</sub>	28.497 <sub>161</sub>	70.38 <sub>25</sub>	17.219 <sub>138</sub>	56.53 <sub>35</sub>
35.3	59.535	48.82	40.754	53.43	28.336	70.13	17.081	56.18
Mittl. Ort sec 2. tg 2	56.687 1.09	33.35 +0.131	38.913 1.470	51.65 -1.077	24.888 1.224	45.79 +0.706	13.751 1.121	35.04 +0.506

Mittlere Zeit Greenw.	47) $\theta$ Ceti		48) $\delta$ Cassiopeiae		50) $\tau$ Piscium		51) $\alpha$ Cassiopeiae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$1^h 20^m$	$-8^\circ 34'$	$1^h 20^m$	$+59^\circ 49'$	$1^h 27^m$	$+14^\circ 56'$	$1^h 32^m$	$+72^\circ 38'$
Jan. 0.3	10.537 <sup>127</sup>	57.23 <sup>78</sup>	47.301 <sup>327</sup>	81.09 <sup>18</sup>	21.969 <sup>127</sup>	57.08 <sup>62</sup>	22.61 <sup>61</sup>	68.17 <sup>64</sup>
10.3	10.410 <sup>133</sup>	58.01 <sup>62</sup>	46.974 <sup>344</sup>	81.27 <sup>36</sup>	21.842 <sup>137</sup>	56.46 <sup>71</sup>	22.00 <sup>64</sup>	68.81 <sup>3</sup>
20.2	10.277 <sup>136</sup>	58.63 <sup>44</sup>	46.630 <sup>347</sup>	80.91 <sup>86</sup>	21.705 <sup>143</sup>	55.75 <sup>79</sup>	21.36 <sup>65</sup>	68.84 <sup>55</sup>
30.2	10.141 <sup>132</sup>	59.07 <sup>24</sup>	46.283 <sup>335</sup>	80.05 <sup>135</sup>	21.562 <sup>140</sup>	54.96 <sup>83</sup>	20.71 <sup>63</sup>	68.29 <sup>113</sup>
Feb. 9.2	10.009 <sup>122</sup>	59.31 <sup>3</sup>	45.948 <sup>308</sup>	78.70 <sup>176</sup>	21.422 <sup>132</sup>	54.13 <sup>85</sup>	20.08 <sup>58</sup>	67.16 <sup>165</sup>
19.1	9.887 <sup>105</sup>	59.34 <sup>18</sup>	45.640 <sup>266</sup>	76.94 <sup>212</sup>	21.290 <sup>114</sup>	53.28 <sup>81</sup>	19.50 <sup>51</sup>	65.51 <sup>210</sup>
März 1.1	9.782 <sup>82</sup>	59.16 <sup>43</sup>	45.374 <sup>209</sup>	74.82 <sup>237</sup>	21.176 <sup>91</sup>	52.47 <sup>75</sup>	18.99 <sup>42</sup>	63.41 <sup>246</sup>
11.1	9.700 <sup>53</sup>	58.73 <sup>66</sup>	45.165 <sup>141</sup>	72.45 <sup>253</sup>	21.085 <sup>60</sup>	51.72 <sup>63</sup>	18.57 <sup>31</sup>	60.95 <sup>272</sup>
21.1	9.647 <sup>17</sup>	58.07 <sup>91</sup>	45.024 <sup>63</sup>	69.92 <sup>259</sup>	21.025 <sup>22</sup>	51.09 <sup>47</sup>	18.26 <sup>17</sup>	58.23 <sup>287</sup>
31.0	9.630 <sup>22</sup>	57.16 <sup>114</sup>	44.961 <sup>20</sup>	67.33 <sup>253</sup>	21.003 <sup>19</sup>	50.62 <sup>26</sup>	18.09 <sup>4</sup>	55.36 <sup>290</sup>
Apr. 10.0	9.652 <sup>65</sup>	56.02 <sup>138</sup>	44.981 <sup>105</sup>	64.80 <sup>237</sup>	21.022 <sup>65</sup>	50.36 <sup>4</sup>	18.05 <sup>11</sup>	52.46 <sup>282</sup>
20.0	9.717 <sup>108</sup>	54.64 <sup>160</sup>	45.086 <sup>190</sup>	62.43 <sup>213</sup>	21.087 <sup>111</sup>	50.32 <sup>22</sup>	18.16 <sup>24</sup>	49.64 <sup>262</sup>
30.0	9.825 <sup>151</sup>	53.04 <sup>178</sup>	45.276 <sup>269</sup>	60.30 <sup>181</sup>	21.198 <sup>155</sup>	50.54 <sup>49</sup>	18.40 <sup>38</sup>	47.02 <sup>235</sup>
Mai 9.9	9.976 <sup>191</sup>	51.26 <sup>194</sup>	45.545 <sup>342</sup>	58.49 <sup>142</sup>	21.353 <sup>197</sup>	51.03 <sup>77</sup>	18.78 <sup>50</sup>	44.67 <sup>198</sup>
19.9	10.167 <sup>226</sup>	49.32 <sup>205</sup>	45.887 <sup>403</sup>	57.07 <sup>98</sup>	21.550 <sup>234</sup>	51.80 <sup>102</sup>	19.28 <sup>60</sup>	42.69 <sup>156</sup>
29.9	10.393 <sup>257</sup>	47.27 <sup>212</sup>	46.290 <sup>453</sup>	56.09 <sup>51</sup>	21.784 <sup>264</sup>	52.82 <sup>126</sup>	19.88 <sup>69</sup>	41.13 <sup>109</sup>
Juni 8.8	10.650 <sup>280</sup>	45.15 <sup>213</sup>	46.743 <sup>491</sup>	55.58 <sup>4</sup>	22.048 <sup>289</sup>	54.08 <sup>147</sup>	20.57 <sup>75</sup>	40.04 <sup>59</sup>
18.8	10.930 <sup>295</sup>	43.02 <sup>208</sup>	47.234 <sup>513</sup>	55.54 <sup>45</sup>	22.337 <sup>304</sup>	55.55 <sup>164</sup>	21.32 <sup>79</sup>	39.45 <sup>7</sup>
28.8	11.225 <sup>304</sup>	40.94 <sup>199</sup>	47.747 <sup>523</sup>	55.99 <sup>91</sup>	22.641 <sup>311</sup>	57.19 <sup>176</sup>	22.11 <sup>82</sup>	39.38 <sup>45</sup>
Juli 8.8	11.529 <sup>303</sup>	38.95 <sup>184</sup>	48.270 <sup>519</sup>	56.90 <sup>135</sup>	22.952 <sup>311</sup>	58.95 <sup>184</sup>	22.93 <sup>82</sup>	39.83 <sup>96</sup>
18.7	11.832 <sup>295</sup>	37.11 <sup>163</sup>	48.789 <sup>503</sup>	58.25 <sup>176</sup>	23.263 <sup>303</sup>	60.79 <sup>186</sup>	23.75 <sup>80</sup>	40.79 <sup>143</sup>
28.7	12.127 <sup>281</sup>	35.48 <sup>139</sup>	49.292 <sup>476</sup>	60.01 <sup>213</sup>	23.566 <sup>287</sup>	62.65 <sup>185</sup>	24.55 <sup>77</sup>	42.22 <sup>187</sup>
Aug. 7.7	12.408 <sup>259</sup>	34.09 <sup>110</sup>	49.768 <sup>440</sup>	62.14 <sup>244</sup>	23.853 <sup>267</sup>	64.50 <sup>178</sup>	25.32 <sup>71</sup>	44.09 <sup>228</sup>
17.7	12.667 <sup>232</sup>	32.99 <sup>81</sup>	50.208 <sup>395</sup>	64.58 <sup>269</sup>	24.120 <sup>240</sup>	66.28 <sup>167</sup>	26.03 <sup>65</sup>	46.37 <sup>263</sup>
27.6	12.899 <sup>202</sup>	32.18 <sup>48</sup>	50.603 <sup>343</sup>	67.27 <sup>290</sup>	24.360 <sup>211</sup>	67.95 <sup>153</sup>	26.68 <sup>57</sup>	49.00 <sup>292</sup>
Sept. 6.6	13.101 <sup>170</sup>	31.70 <sup>17</sup>	50.946 <sup>289</sup>	70.17 <sup>304</sup>	24.571 <sup>179</sup>	69.48 <sup>136</sup>	27.25 <sup>49</sup>	51.92 <sup>316</sup>
16.6	13.271 <sup>134</sup>	31.53 <sup>13</sup>	51.235 <sup>230</sup>	73.21 <sup>312</sup>	24.750 <sup>146</sup>	70.84 <sup>117</sup>	27.74 <sup>39</sup>	55.08 <sup>334</sup>
26.5	13.405 <sup>100</sup>	31.66 <sup>41</sup>	51.465 <sup>170</sup>	76.33 <sup>314</sup>	24.896 <sup>113</sup>	72.01 <sup>98</sup>	28.13 <sup>30</sup>	58.42 <sup>343</sup>
Okt. 6.5	13.505 <sup>66</sup>	32.07 <sup>64</sup>	51.635 <sup>108</sup>	79.47 <sup>310</sup>	25.009 <sup>80</sup>	72.99 <sup>78</sup>	28.43 <sup>19</sup>	61.85 <sup>348</sup>
16.5	13.571 <sup>35</sup>	32.71 <sup>85</sup>	51.743 <sup>46</sup>	82.57 <sup>299</sup>	25.089 <sup>48</sup>	73.77 <sup>58</sup>	28.62 <sup>8</sup>	65.33 <sup>343</sup>
26.5	13.606 <sup>4</sup>	33.56 <sup>99</sup>	51.789 <sup>15</sup>	85.56 <sup>282</sup>	25.137 <sup>19</sup>	74.35 <sup>39</sup>	28.70 <sup>3</sup>	68.76 <sup>332</sup>
Nov. 5.4	13.610 <sup>22</sup>	34.55 <sup>108</sup>	51.774 <sup>74</sup>	88.38 <sup>258</sup>	25.156 <sup>9</sup>	74.74 <sup>21</sup>	28.67 <sup>13</sup>	72.08 <sup>312</sup>
15.4	13.588 <sup>48</sup>	35.63 <sup>112</sup>	51.700 <sup>131</sup>	90.96 <sup>227</sup>	25.147 <sup>35</sup>	74.95 <sup>4</sup>	28.54 <sup>24</sup>	75.20 <sup>284</sup>
25.4	13.540 <sup>70</sup>	36.75 <sup>112</sup>	51.569 <sup>186</sup>	93.23 <sup>191</sup>	25.112 <sup>59</sup>	74.99 <sup>12</sup>	28.30 <sup>34</sup>	78.04 <sup>249</sup>
Dez. 5.4	13.470 <sup>89</sup>	37.87 <sup>107</sup>	51.383 <sup>235</sup>	95.14 <sup>149</sup>	25.053 <sup>81</sup>	74.87 <sup>27</sup>	27.96 <sup>44</sup>	80.53 <sup>206</sup>
15.3	13.381 <sup>106</sup>	38.94 <sup>97</sup>	51.148 <sup>279</sup>	96.63 <sup>102</sup>	24.972 <sup>102</sup>	74.60 <sup>40</sup>	27.52 <sup>51</sup>	82.59 <sup>156</sup>
25.3	13.275 <sup>119</sup>	39.91 <sup>85</sup>	50.869 <sup>313</sup>	97.65 <sup>50</sup>	24.870 <sup>118</sup>	74.20 <sup>53</sup>	27.01 <sup>58</sup>	84.15 <sup>101</sup>
35.3	13.156	40.76	50.556	98.15	24.752	73.67	26.43	85.16
Mittl. Ort	10.440	49.06	45.810	68.36	21.574	57.38	19.68	54.04
sec. d. tg $\delta$	1.011	-0.151	1.990	+1.721	1.035	+0.267	3.353	+3.201



# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	52) ♀ Persei		54) α Eridani		55) 43 Cassiopeiae		57) φ Persei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	1 <sup>h</sup> 33 <sup>m</sup>	+48° 14'	1 <sup>h</sup> 34 <sup>m</sup>	-57° 37'	1 <sup>h</sup> 36 <sup>m</sup>	+67° 39'	1 <sup>h</sup> 38 <sup>m</sup>	+50° 17'
Jan. 0.3	16.450 <sub>220</sub>	28.57 <sub>4</sub>	50.608 <sub>330</sub>	61.33 <sub>51</sub>	39.10 <sub>45</sub>	28.74 <sub>56</sub>	50.613 <sub>231</sub>	74.80 <sub>15</sub>
10.3	16.230 <sub>237</sub>	28.61 <sub>39</sub>	50.278 <sub>336</sub>	61.84 <sub>6</sub>	38.65 <sub>48</sub>	29.30 <sub>0</sub>	50.382 <sub>250</sub>	74.95 <sub>30</sub>
20.2	15.993 <sub>244</sub>	28.22 <sub>81</sub>	49.942 <sub>334</sub>	61.78 <sub>62</sub>	38.17 <sub>50</sub>	29.30 <sub>58</sub>	50.132 <sub>259</sub>	74.65 <sub>73</sub>
30.2	15.749 <sub>241</sub>	27.41 <sub>120</sub>	49.608 <sub>320</sub>	61.16 <sub>116</sub>	37.67 <sub>48</sub>	28.72 <sub>111</sub>	49.873 <sub>257</sub>	73.92 <sub>114</sub>
Feb. 9.2	15.508 <sub>225</sub>	26.21 <sub>154</sub>	49.288 <sub>296</sub>	60.00 <sub>166</sub>	37.19 <sub>44</sub>	27.61 <sub>161</sub>	49.616 <sub>242</sub>	72.78 <sub>150</sub>
19.2	15.283 <sub>199</sub>	24.67 <sub>180</sub>	48.992 <sub>263</sub>	58.34 <sub>212</sub>	36.75 <sub>40</sub>	26.00 <sub>203</sub>	49.374 <sub>215</sub>	71.28 <sub>180</sub>
März 1.1	15.084 <sub>161</sub>	22.87 <sub>201</sub>	48.729 <sub>221</sub>	56.22 <sub>253</sub>	36.35 <sub>33</sub>	23.97 <sub>237</sub>	49.159 <sub>176</sub>	69.48 <sub>202</sub>
11.1	14.923 <sub>112</sub>	20.86 <sub>211</sub>	48.508 <sub>169</sub>	53.69 <sub>287</sub>	36.02 <sub>23</sub>	21.60 <sub>262</sub>	48.983 <sub>126</sub>	67.46 <sub>215</sub>
21.1	14.811 <sub>55</sub>	18.75 <sub>213</sub>	48.339 <sub>111</sub>	50.82 <sub>315</sub>	35.79 <sub>14</sub>	18.98 <sub>274</sub>	48.857 <sub>67</sub>	65.31 <sub>219</sub>
31.0	14.756 <sub>7</sub>	16.62 <sub>205</sub>	48.228 <sub>47</sub>	47.67 <sub>336</sub>	35.65 <sub>3</sub>	16.24 <sub>276</sub>	48.790 <sub>3</sub>	63.12 <sub>214</sub>
Apr. 10.0	14.763 <sub>73</sub>	14.57 <sub>190</sub>	48.181 <sub>22</sub>	44.31 <sub>350</sub>	35.62 <sub>9</sub>	13.48 <sub>267</sub>	48.787 <sub>66</sub>	60.98 <sub>198</sub>
20.0	14.836 <sub>138</sub>	12.67 <sub>165</sub>	48.203 <sub>92</sub>	40.81 <sub>356</sub>	35.71 <sub>19</sub>	10.81 <sub>248</sub>	48.853 <sub>134</sub>	59.00 <sub>177</sub>
30.0	14.974 <sub>201</sub>	11.02 <sub>135</sub>	48.295 <sub>163</sub>	37.25 <sub>353</sub>	35.90 <sub>31</sub>	8.33 <sub>220</sub>	48.987 <sub>201</sub>	57.23 <sub>147</sub>
Mai 9.9	15.175 <sub>259</sub>	9.67 <sub>99</sub>	48.458 <sub>230</sub>	33.72 <sub>345</sub>	36.21 <sub>39</sub>	6.13 <sub>184</sub>	49.188 <sub>261</sub>	55.76 <sub>113</sub>
19.9	15.434 <sub>311</sub>	8.68 <sub>59</sub>	48.688 <sub>294</sub>	30.27 <sub>327</sub>	36.60 <sub>48</sub>	4.29 <sub>143</sub>	49.449 <sub>315</sub>	54.63 <sub>73</sub>
29.9	15.745 <sub>352</sub>	8.09 <sub>19</sub>	48.982 <sub>351</sub>	27.00 <sub>302</sub>	37.08 <sub>56</sub>	2.86 <sub>96</sub>	49.764 <sub>359</sub>	53.90 <sub>32</sub>
Juni 8.9	16.097 <sub>384</sub>	7.90 <sub>23</sub>	49.333 <sub>397</sub>	23.98 <sub>269</sub>	37.64 <sub>60</sub>	1.90 <sub>48</sub>	50.123 <sub>394</sub>	53.58 <sub>11</sub>
18.8	16.481 <sub>405</sub>	8.13 <sub>65</sub>	49.730 <sub>435</sub>	21.29 <sub>230</sub>	38.24 <sub>64</sub>	1.42 <sub>2</sub>	50.517 <sub>417</sub>	53.69 <sub>53</sub>
28.8	16.886 <sub>416</sub>	8.78 <sub>105</sub>	50.165 <sub>460</sub>	18.99 <sub>184</sub>	38.88 <sub>67</sub>	1.44 <sub>52</sub>	50.934 <sub>429</sub>	54.22 <sub>94</sub>
Juli 8.8	17.302 <sub>415</sub>	9.83 <sub>141</sub>	50.625 <sub>473</sub>	17.15 <sub>134</sub>	39.55 <sub>66</sub>	1.96 <sub>100</sub>	51.363 <sub>430</sub>	55.16 <sub>131</sub>
18.7	17.717 <sub>405</sub>	11.24 <sub>174</sub>	51.098 <sub>473</sub>	15.81 <sub>79</sub>	40.21 <sub>65</sub>	2.96 <sub>146</sub>	51.793 <sub>421</sub>	56.47 <sub>167</sub>
28.7	18.122 <sub>386</sub>	12.98 <sub>202</sub>	51.571 <sub>458</sub>	15.02 <sub>23</sub>	40.86 <sub>62</sub>	4.42 <sub>187</sub>	52.214 <sub>403</sub>	58.14 <sub>196</sub>
Aug. 7.7	18.508 <sub>360</sub>	15.00 <sub>226</sub>	52.029 <sub>433</sub>	14.79 <sub>34</sub>	41.48 <sub>58</sub>	6.29 <sub>225</sub>	52.617 <sub>377</sub>	60.10 <sub>222</sub>
17.7	18.868 <sub>326</sub>	17.26 <sub>245</sub>	52.462 <sub>396</sub>	15.13 <sub>90</sub>	42.06 <sub>53</sub>	8.54 <sub>258</sub>	52.994 <sub>343</sub>	62.32 <sub>243</sub>
27.6	19.194 <sub>288</sub>	19.71 <sub>258</sub>	52.858 <sub>346</sub>	16.03 <sub>144</sub>	42.59 <sub>47</sub>	11.12 <sub>286</sub>	53.337 <sub>305</sub>	64.75 <sub>257</sub>
Sept. 6.6	19.482 <sub>246</sub>	22.29 <sub>265</sub>	53.204 <sub>290</sub>	17.47 <sub>191</sub>	43.06 <sub>41</sub>	13.98 <sub>306</sub>	53.642 <sub>263</sub>	67.32 <sub>269</sub>
16.6	19.728 <sub>203</sub>	24.94 <sub>260</sub>	53.494 <sub>226</sub>	19.38 <sub>232</sub>	43.47 <sub>33</sub>	17.04 <sub>322</sub>	53.905 <sub>217</sub>	70.01 <sub>273</sub>
26.6	19.931 <sub>157</sub>	27.63 <sub>266</sub>	53.720 <sub>157</sub>	21.70 <sub>265</sub>	43.80 <sub>25</sub>	20.26 <sub>330</sub>	54.122 <sub>172</sub>	72.74 <sub>272</sub>
Okt. 6.5	20.088 <sub>112</sub>	30.29 <sub>259</sub>	53.877 <sub>87</sub>	24.35 <sub>287</sub>	44.05 <sub>17</sub>	23.56 <sub>333</sub>	54.294 <sub>123</sub>	75.46 <sub>267</sub>
16.5	20.200 <sub>66</sub>	32.88 <sub>246</sub>	53.964 <sub>18</sub>	27.22 <sub>299</sub>	44.22 <sub>9</sub>	26.89 <sub>327</sub>	54.417 <sub>77</sub>	78.13 <sub>257</sub>
26.5	20.266 <sub>21</sub>	35.34 <sub>229</sub>	53.982 <sub>50</sub>	30.21 <sub>297</sub>	44.31 <sub>0</sub>	30.16 <sub>315</sub>	54.494 <sub>29</sub>	80.70 <sub>240</sub>
Nov. 5.4	20.287 <sub>22</sub>	37.63 <sub>208</sub>	53.932 <sub>114</sub>	33.18 <sub>285</sub>	44.31 <sub>7</sub>	33.31 <sub>296</sub>	54.523 <sub>17</sub>	83.10 <sub>219</sub>
15.4	20.265 <sub>65</sub>	39.71 <sub>180</sub>	53.818 <sub>171</sub>	36.03 <sub>262</sub>	44.24 <sub>16</sub>	36.27 <sub>268</sub>	54.506 <sub>63</sub>	85.29 <sub>193</sub>
25.4	20.200 <sub>106</sub>	41.51 <sub>149</sub>	53.647 <sub>220</sub>	38.65 <sub>228</sub>	44.08 <sub>24</sub>	38.95 <sub>234</sub>	54.443 <sub>106</sub>	87.22 <sub>162</sub>
Dez. 5.4	20.094 <sub>144</sub>	43.00 <sub>113</sub>	53.427 <sub>262</sub>	40.93 <sub>187</sub>	43.84 <sub>31</sub>	41.29 <sub>192</sub>	54.337 <sub>147</sub>	88.84 <sub>126</sub>
15.3	19.950 <sub>178</sub>	44.13 <sub>74</sub>	53.165 <sub>295</sub>	42.80 <sub>137</sub>	43.53 <sub>38</sub>	43.21 <sub>145</sub>	54.190 <sub>185</sub>	90.10 <sub>87</sub>
25.3	19.772 <sub>266</sub>	44.87 <sub>32</sub>	52.870 <sub>317</sub>	44.17 <sub>83</sub>	43.15 <sub>43</sub>	44.66 <sub>92</sub>	54.005 <sub>215</sub>	90.97 <sub>43</sub>
35.3	19.566	45.19	52.553	45.00	42.72	45.58	53.790	91.40
Mittl. Ort sec δ, tg δ	15.361 1.501	19.10 +1.120	50.949 1.868	39.52 -1.577	36.81 2.630	15.56 +2.433	49.412 1.566	65.15 +1.205

Mittlere Zeit Greenw.	59) $\tau$ Ceti *)		60) $\sigma$ Piscium		61) $\lambda$ Lac. $\epsilon$ Sculptoris		62) $\zeta$ Ceti	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$1^h 40^m$	$-16^\circ 20'$	$1^h 41^m$	$+8^\circ 46'$	$1^h 42^m$	$-25^\circ 25'$	$1^h 47^m$	$-10^\circ 42'$
Jan. 0.3	29.573 <sup>137</sup>	44.95 <sup>82</sup>	19.892 <sup>121</sup>	11.56 <sup>66</sup>	2.412 <sup>149</sup>	88.44 <sup>87</sup>	39.770 <sup>125</sup>	63.68 <sup>86</sup>
10.3	29.436 <sup>146</sup>	45.77 <sup>57</sup>	19.771 <sup>133</sup>	10.90 <sup>69</sup>	2.263 <sup>159</sup>	89.31 <sup>54</sup>	39.645 <sup>138</sup>	64.54 <sup>68</sup>
20.2	29.290 <sup>152</sup>	46.34 <sup>30</sup>	19.638 <sup>140</sup>	10.21 <sup>69</sup>	2.104 <sup>164</sup>	89.85 <sup>20</sup>	39.507 <sup>144</sup>	65.22 <sup>47</sup>
30.2	29.138 <sup>150</sup>	46.64 <sup>2</sup>	19.498 <sup>140</sup>	9.52 <sup>67</sup>	1.940 <sup>163</sup>	90.05 <sup>17</sup>	39.363 <sup>145</sup>	65.69 <sup>24</sup>
Feb. 9.2	28.988 <sup>141</sup>	46.66 <sup>26</sup>	19.358 <sup>135</sup>	8.85 <sup>62</sup>	1.777 <sup>154</sup>	89.88 <sup>52</sup>	39.218 <sup>140</sup>	65.93 <sup>1</sup>
19.2	28.847 <sup>127</sup>	46.40 <sup>54</sup>	19.223 <sup>120</sup>	8.23 <sup>54</sup>	1.623 <sup>138</sup>	89.36 <sup>86</sup>	39.078 <sup>126</sup>	65.94 <sup>24</sup>
März 1.1	28.720 <sup>106</sup>	45.86 <sup>83</sup>	19.103 <sup>99</sup>	7.69 <sup>43</sup>	1.485 <sup>116</sup>	88.50 <sup>119</sup>	38.952 <sup>106</sup>	65.70 <sup>48</sup>
11.1	28.614 <sup>76</sup>	45.03 <sup>110</sup>	19.004 <sup>71</sup>	7.26 <sup>28</sup>	1.369 <sup>86</sup>	87.31 <sup>151</sup>	38.846 <sup>79</sup>	65.22 <sup>74</sup>
21.1	28.538 <sup>41</sup>	43.93 <sup>137</sup>	18.933 <sup>34</sup>	6.98 <sup>11</sup>	1.283 <sup>49</sup>	85.80 <sup>179</sup>	38.767 <sup>45</sup>	64.48 <sup>99</sup>
31.0	28.497 <sup>1</sup>	42.56 <sup>161</sup>	18.899 <sup>5</sup>	6.87 <sup>10</sup>	1.234 <sup>9</sup>	84.01 <sup>205</sup>	38.722 <sup>7</sup>	63.49 <sup>124</sup>
Apr. 10.0	28.496 <sup>41</sup>	40.95 <sup>184</sup>	18.904 <sup>49</sup>	6.97 <sup>33</sup>	1.225 <sup>36</sup>	81.96 <sup>227</sup>	38.715 <sup>37</sup>	62.25 <sup>148</sup>
20.0	28.537 <sup>86</sup>	39.11 <sup>204</sup>	18.953 <sup>94</sup>	7.30 <sup>57</sup>	1.261 <sup>82</sup>	79.69 <sup>245</sup>	38.752 <sup>80</sup>	60.77 <sup>169</sup>
30.0	28.623 <sup>131</sup>	37.07 <sup>220</sup>	19.047 <sup>138</sup>	7.87 <sup>81</sup>	1.343 <sup>129</sup>	77.24 <sup>258</sup>	38.832 <sup>124</sup>	59.08 <sup>188</sup>
Mai 9.9	28.754 <sup>172</sup>	34.87 <sup>231</sup>	19.185 <sup>181</sup>	8.68 <sup>105</sup>	1.472 <sup>174</sup>	74.66 <sup>266</sup>	38.956 <sup>167</sup>	57.20 <sup>203</sup>
19.9	28.926 <sup>212</sup>	32.56 <sup>239</sup>	19.366 <sup>218</sup>	9.73 <sup>128</sup>	1.646 <sup>214</sup>	72.00 <sup>268</sup>	39.123 <sup>206</sup>	55.17 <sup>214</sup>
29.9	29.138 <sup>244</sup>	30.17 <sup>239</sup>	19.584 <sup>250</sup>	11.01 <sup>146</sup>	1.860 <sup>250</sup>	69.32 <sup>263</sup>	39.329 <sup>239</sup>	53.03 <sup>220</sup>
Juni 8.9	29.382 <sup>271</sup>	27.78 <sup>235</sup>	19.834 <sup>276</sup>	12.47 <sup>163</sup>	2.110 <sup>280</sup>	66.69 <sup>252</sup>	39.568 <sup>266</sup>	50.83 <sup>220</sup>
18.8	29.653 <sup>291</sup>	25.43 <sup>225</sup>	20.110 <sup>294</sup>	14.10 <sup>174</sup>	2.390 <sup>301</sup>	64.17 <sup>234</sup>	39.834 <sup>287</sup>	48.63 <sup>216</sup>
28.8	29.944 <sup>302</sup>	23.18 <sup>208</sup>	20.404 <sup>303</sup>	15.84 <sup>181</sup>	2.691 <sup>315</sup>	61.83 <sup>211</sup>	40.121 <sup>299</sup>	46.47 <sup>205</sup>
Juli 8.8	30.246 <sup>305</sup>	21.10 <sup>185</sup>	20.707 <sup>306</sup>	17.65 <sup>182</sup>	3.006 <sup>321</sup>	59.72 <sup>181</sup>	40.420 <sup>303</sup>	44.42 <sup>188</sup>
18.7	30.551 <sup>301</sup>	19.25 <sup>159</sup>	21.013 <sup>300</sup>	19.47 <sup>181</sup>	3.327 <sup>317</sup>	57.91 <sup>147</sup>	40.723 <sup>300</sup>	42.54 <sup>167</sup>
28.7	30.852 <sup>288</sup>	17.66 <sup>127</sup>	21.313 <sup>287</sup>	21.28 <sup>172</sup>	3.644 <sup>306</sup>	56.44 <sup>108</sup>	41.023 <sup>290</sup>	40.87 <sup>141</sup>
Aug. 7.7	31.140 <sup>270</sup>	16.39 <sup>93</sup>	21.600 <sup>269</sup>	23.00 <sup>159</sup>	3.950 <sup>288</sup>	55.36 <sup>67</sup>	41.313 <sup>272</sup>	39.46 <sup>111</sup>
17.7	31.410 <sup>245</sup>	15.46 <sup>55</sup>	21.869 <sup>246</sup>	24.59 <sup>144</sup>	4.238 <sup>263</sup>	54.69 <sup>23</sup>	41.585 <sup>250</sup>	38.35 <sup>78</sup>
27.6	31.655 <sup>216</sup>	14.91 <sup>19</sup>	22.115 <sup>218</sup>	26.03 <sup>125</sup>	4.501 <sup>234</sup>	54.46 <sup>19</sup>	41.835 <sup>223</sup>	37.57 <sup>44</sup>
Sept. 6.6	31.871 <sup>184</sup>	14.72 <sup>19</sup>	22.333 <sup>188</sup>	27.28 <sup>104</sup>	4.735 <sup>199</sup>	54.65 <sup>61</sup>	42.058 <sup>193</sup>	37.13 <sup>10</sup>
16.6	32.055 <sup>149</sup>	14.91 <sup>53</sup>	22.521 <sup>156</sup>	28.32 <sup>82</sup>	4.934 <sup>163</sup>	55.26 <sup>98</sup>	42.251 <sup>160</sup>	37.03 <sup>22</sup>
26.6	32.204 <sup>114</sup>	15.44 <sup>83</sup>	22.677 <sup>124</sup>	29.14 <sup>60</sup>	5.097 <sup>126</sup>	56.24 <sup>132</sup>	42.411 <sup>127</sup>	37.25 <sup>53</sup>
Okt. 6.5	32.318 <sup>80</sup>	16.27 <sup>110</sup>	22.801 <sup>93</sup>	29.74 <sup>39</sup>	5.223 <sup>88</sup>	57.56 <sup>159</sup>	42.538 <sup>94</sup>	37.78 <sup>78</sup>
16.5	32.398 <sup>45</sup>	17.37 <sup>130</sup>	22.894 <sup>61</sup>	30.13 <sup>19</sup>	5.311 <sup>50</sup>	59.15 <sup>179</sup>	42.632 <sup>61</sup>	38.56 <sup>100</sup>
26.5	32.443 <sup>14</sup>	18.67 <sup>143</sup>	22.955 <sup>32</sup>	30.32 <sup>0</sup>	5.361 <sup>16</sup>	60.94 <sup>191</sup>	42.693 <sup>31</sup>	39.56 <sup>115</sup>
Nov. 5.4	32.457 <sup>17</sup>	20.10 <sup>151</sup>	22.987 <sup>4</sup>	30.32 <sup>15</sup>	5.377 <sup>18</sup>	62.85 <sup>194</sup>	42.724 <sup>1</sup>	40.71 <sup>126</sup>
15.4	32.440 <sup>44</sup>	21.61 <sup>150</sup>	22.991 <sup>22</sup>	30.17 <sup>29</sup>	5.359 <sup>48</sup>	64.79 <sup>190</sup>	42.725 <sup>27</sup>	41.97 <sup>130</sup>
25.4	32.396 <sup>69</sup>	23.11 <sup>144</sup>	22.969 <sup>48</sup>	29.88 <sup>40</sup>	5.311 <sup>76</sup>	66.69 <sup>178</sup>	42.698 <sup>52</sup>	43.27 <sup>127</sup>
Dez. 5.4	32.327 <sup>92</sup>	24.55 <sup>133</sup>	22.921 <sup>71</sup>	29.48 <sup>49</sup>	5.235 <sup>101</sup>	68.47 <sup>159</sup>	42.646 <sup>75</sup>	44.54 <sup>122</sup>
15.3	32.235 <sup>111</sup>	25.88 <sup>115</sup>	22.850 <sup>92</sup>	28.99 <sup>57</sup>	5.134 <sup>121</sup>	70.06 <sup>135</sup>	42.571 <sup>97</sup>	45.76 <sup>110</sup>
25.3	32.124 <sup>128</sup>	27.03 <sup>94</sup>	22.758 <sup>110</sup>	28.42 <sup>62</sup>	5.013 <sup>139</sup>	71.41 <sup>106</sup>	42.474 <sup>115</sup>	46.86 <sup>96</sup>
35.3	31.996	27.97	22.648	27.80	4.874	72.47	42.359	47.82
Mittl. Ort sec $\delta$ , tg $\delta$	29.443 1.042	33.37 -0.293	19.493 1.012	14.58 +0.154	2.332 1.107	74.13 -0.476	39.527 1.018	53.84 -0.189

\*) Die jährliche Parallaxe (0.31) ist bereits berücksichtigt

Mittlere Zeit Greenw.	64) α Trianguli		63) ε Cassiopeiae		65) ζ Piscium		66) β Arietis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	1 <sup>h</sup> 48 <sup>m</sup>	+29° 12'	1 <sup>h</sup> 48 <sup>m</sup>	+63° 17'	1 <sup>h</sup> 49 <sup>m</sup>	+2° 48'	1 <sup>h</sup> 50 <sup>m</sup>	+20° 25'
Jan. 0.3	41.936 <sup>143</sup>	18.87 <sup>27</sup>	52.19 <sup>36</sup>	41.74 <sup>60</sup>	34.416 <sup>118</sup>	23.00 <sup>74</sup>	23.514 <sup>128</sup>	56.52 <sup>45</sup>
10.3	41.793 <sup>159</sup>	18.60 <sup>52</sup>	51.83 <sup>39</sup>	42.34 <sup>6</sup>	34.298 <sup>131</sup>	22.26 <sup>69</sup>	23.386 <sup>143</sup>	56.07 <sup>60</sup>
20.2	41.634 <sup>169</sup>	18.08 <sup>75</sup>	51.44 <sup>40</sup>	42.40 <sup>47</sup>	34.167 <sup>140</sup>	21.57 <sup>63</sup>	23.243 <sup>153</sup>	55.47 <sup>72</sup>
30.2	41.465 <sup>172</sup>	17.33 <sup>94</sup>	51.03 <sup>41</sup>	41.93 <sup>99</sup>	34.027 <sup>142</sup>	20.94 <sup>54</sup>	23.090 <sup>155</sup>	54.75 <sup>83</sup>
Feb. 9.2	41.293 <sup>164</sup>	16.39 <sup>110</sup>	50.63 <sup>38</sup>	40.94 <sup>147</sup>	33.885 <sup>137</sup>	20.40 <sup>44</sup>	22.935 <sup>150</sup>	53.92 <sup>91</sup>
19.2	41.129 <sup>149</sup>	15.29 <sup>123</sup>	50.25 <sup>34</sup>	39.47 <sup>187</sup>	33.748 <sup>124</sup>	19.96 <sup>30</sup>	22.785 <sup>136</sup>	53.01 <sup>94</sup>
März 1.1	40.980 <sup>124</sup>	14.06 <sup>129</sup>	49.91 <sup>29</sup>	37.60 <sup>221</sup>	33.624 <sup>104</sup>	19.66 <sup>15</sup>	22.649 <sup>114</sup>	52.07 <sup>93</sup>
11.1	40.856 <sup>91</sup>	12.77 <sup>128</sup>	49.62 <sup>21</sup>	35.39 <sup>244</sup>	33.520 <sup>77</sup>	19.51 <sup>4</sup>	22.535 <sup>83</sup>	51.14 <sup>86</sup>
21.1	40.765 <sup>50</sup>	11.49 <sup>121</sup>	49.41 <sup>14</sup>	32.95 <sup>257</sup>	33.443 <sup>43</sup>	19.55 <sup>23</sup>	22.452 <sup>47</sup>	50.28 <sup>75</sup>
31.1	40.715 <sup>4</sup>	10.28 <sup>109</sup>	49.27 <sup>4</sup>	30.38 <sup>261</sup>	33.400 <sup>4</sup>	19.78 <sup>45</sup>	22.405 <sup>3</sup>	49.53 <sup>59</sup>
Apr. 10.0	40.711 <sup>47</sup>	9.19 <sup>90</sup>	49.23 <sup>6</sup>	27.77 <sup>253</sup>	33.396 <sup>39</sup>	20.23 <sup>67</sup>	22.402 <sup>43</sup>	48.94 <sup>40</sup>
20.0	40.758 <sup>98</sup>	8.29 <sup>67</sup>	49.29 <sup>15</sup>	25.24 <sup>236</sup>	33.435 <sup>83</sup>	20.90 <sup>91</sup>	22.445 <sup>91</sup>	48.54 <sup>35</sup>
30.0	40.856 <sup>149</sup>	7.62 <sup>40</sup>	49.44 <sup>24</sup>	22.88 <sup>209</sup>	33.518 <sup>128</sup>	21.81 <sup>114</sup>	22.536 <sup>138</sup>	48.39 <sup>11</sup>
Mai 10.0	41.005 <sup>196</sup>	7.22 <sup>9</sup>	49.68 <sup>33</sup>	20.79 <sup>176</sup>	33.646 <sup>170</sup>	22.95 <sup>135</sup>	22.674 <sup>183</sup>	48.50 <sup>39</sup>
19.9	41.201 <sup>238</sup>	7.13 <sup>21</sup>	50.01 <sup>40</sup>	19.03 <sup>137</sup>	33.816 <sup>208</sup>	24.30 <sup>154</sup>	22.857 <sup>224</sup>	48.89 <sup>65</sup>
29.9	41.439 <sup>275</sup>	7.34 <sup>53</sup>	50.41 <sup>46</sup>	17.66 <sup>93</sup>	34.024 <sup>241</sup>	25.84 <sup>169</sup>	23.081 <sup>258</sup>	49.54 <sup>93</sup>
Juni 8.9	41.714 <sup>303</sup>	7.87 <sup>83</sup>	50.87 <sup>52</sup>	16.73 <sup>47</sup>	34.265 <sup>267</sup>	27.53 <sup>180</sup>	23.339 <sup>285</sup>	50.47 <sup>116</sup>
18.8	42.017 <sup>323</sup>	8.70 <sup>111</sup>	51.39 <sup>55</sup>	16.26 <sup>0</sup>	34.532 <sup>287</sup>	29.33 <sup>187</sup>	23.624 <sup>305</sup>	51.63 <sup>137</sup>
28.8	42.340 <sup>335</sup>	9.81 <sup>136</sup>	51.94 <sup>57</sup>	16.26 <sup>48</sup>	34.819 <sup>298</sup>	31.20 <sup>188</sup>	23.929 <sup>316</sup>	53.00 <sup>155</sup>
Juli 8.8	42.675 <sup>337</sup>	11.17 <sup>157</sup>	52.51 <sup>58</sup>	16.74 <sup>93</sup>	35.117 <sup>302</sup>	33.08 <sup>185</sup>	24.245 <sup>319</sup>	54.55 <sup>168</sup>
18.8	43.012 <sup>332</sup>	12.74 <sup>173</sup>	53.09 <sup>57</sup>	17.67 <sup>137</sup>	35.419 <sup>298</sup>	34.93 <sup>176</sup>	24.564 <sup>314</sup>	56.23 <sup>177</sup>
28.7	43.344 <sup>319</sup>	14.47 <sup>186</sup>	53.66 <sup>55</sup>	19.04 <sup>177</sup>	35.717 <sup>288</sup>	36.69 <sup>162</sup>	24.878 <sup>303</sup>	58.00 <sup>180</sup>
Aug. 7.7	43.663 <sup>300</sup>	16.33 <sup>194</sup>	54.21 <sup>51</sup>	20.81 <sup>212</sup>	36.005 <sup>270</sup>	38.31 <sup>145</sup>	25.181 <sup>284</sup>	59.80 <sup>180</sup>
17.7	43.963 <sup>274</sup>	18.27 <sup>196</sup>	54.72 <sup>48</sup>	22.93 <sup>243</sup>	36.275 <sup>248</sup>	39.76 <sup>124</sup>	25.465 <sup>261</sup>	61.60 <sup>174</sup>
27.6	44.237 <sup>246</sup>	20.23 <sup>196</sup>	55.20 <sup>43</sup>	25.36 <sup>269</sup>	36.523 <sup>222</sup>	41.00 <sup>100</sup>	25.726 <sup>235</sup>	63.34 <sup>166</sup>
Sept. 6.6	44.483 <sup>215</sup>	22.19 <sup>190</sup>	55.63 <sup>37</sup>	28.05 <sup>289</sup>	36.745 <sup>192</sup>	42.00 <sup>75</sup>	25.961 <sup>204</sup>	65.00 <sup>155</sup>
16.6	44.698 <sup>180</sup>	24.09 <sup>182</sup>	56.00 <sup>32</sup>	30.94 <sup>304</sup>	36.937 <sup>162</sup>	42.75 <sup>49</sup>	26.165 <sup>172</sup>	66.55 <sup>139</sup>
26.6	44.878 <sup>147</sup>	25.91 <sup>171</sup>	56.32 <sup>25</sup>	33.98 <sup>313</sup>	37.099 <sup>130</sup>	43.24 <sup>25</sup>	26.337 <sup>140</sup>	67.94 <sup>124</sup>
Okt. 6.5	45.025 <sup>112</sup>	27.62 <sup>157</sup>	56.57 <sup>18</sup>	37.11 <sup>315</sup>	37.229 <sup>99</sup>	43.49 <sup>1</sup>	26.477 <sup>108</sup>	69.18 <sup>106</sup>
16.5	45.137 <sup>77</sup>	29.19 <sup>141</sup>	56.75 <sup>11</sup>	40.26 <sup>310</sup>	37.328 <sup>68</sup>	43.50 <sup>19</sup>	26.585 <sup>76</sup>	70.24 <sup>89</sup>
26.5	45.214 <sup>45</sup>	30.60 <sup>123</sup>	56.86 <sup>4</sup>	43.36 <sup>299</sup>	37.396 <sup>38</sup>	43.31 <sup>37</sup>	26.661 <sup>45</sup>	71.13 <sup>71</sup>
Nov. 5.4	45.259 <sup>12</sup>	31.83 <sup>105</sup>	56.90 <sup>3</sup>	46.35 <sup>282</sup>	37.434 <sup>10</sup>	42.94 <sup>51</sup>	26.706 <sup>14</sup>	71.84 <sup>53</sup>
15.4	45.271 <sup>20</sup>	32.88 <sup>84</sup>	56.87 <sup>9</sup>	49.17 <sup>256</sup>	37.444 <sup>17</sup>	42.43 <sup>61</sup>	26.720 <sup>15</sup>	72.37 <sup>35</sup>
25.4	45.251 <sup>51</sup>	33.72 <sup>62</sup>	56.78 <sup>17</sup>	51.73 <sup>225</sup>	37.427 <sup>42</sup>	41.82 <sup>69</sup>	26.705 <sup>42</sup>	72.72 <sup>18</sup>
Dez. 5.4	45.200 <sup>79</sup>	34.34 <sup>39</sup>	56.61 <sup>23</sup>	53.98 <sup>187</sup>	37.385 <sup>66</sup>	41.13 <sup>73</sup>	26.663 <sup>69</sup>	72.90 <sup>0</sup>
15.3	45.121 <sup>107</sup>	34.73 <sup>14</sup>	56.38 <sup>28</sup>	55.85 <sup>143</sup>	37.319 <sup>89</sup>	40.40 <sup>75</sup>	26.594 <sup>94</sup>	72.90 <sup>16</sup>
25.3	45.014 <sup>130</sup>	34.87 <sup>10</sup>	56.10 <sup>34</sup>	57.28 <sup>94</sup>	37.230 <sup>107</sup>	39.65 <sup>74</sup>	26.500 <sup>116</sup>	72.74 <sup>33</sup>
35.3	44.884	34.77	55.76	58.22	37.123	38.91	26.384	72.41
Mittl. Ort	41.210	15.55	50.18	30.02	34.035	28.37	22.918	56.04
sec δ, tg δ	1.146	+0.559	2.225	+1.988	1.001	+0.049	1.067	+0.373



Mittlere Zeit Greenw.	67) $\psi$ Phoenicis		68) $\gamma$ Eridani		72) $\alpha$ Hydri		71) $\upsilon$ Ceti	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$1^h 50^m$	$-46^\circ 40'$	$1^h 52^m$	$-51^\circ 59'$	$1^h 56^m$	$-61^\circ 56'$	$1^h 56^m$	$-21^\circ 26'$
Jan. 0.3	33.559 <sup>233</sup>	66.42 <sup>84</sup>	57.610 <sup>270</sup>	52.42 <sup>80</sup>	20.47 <sup>39</sup>	62.07 <sup>72</sup>	22.822 <sup>139</sup>	74.82 <sup>96</sup>
10.3	33.326 <sup>246</sup>	67.26 <sup>34</sup>	57.340 <sup>283</sup>	53.22 <sup>27</sup>	20.08 <sup>40</sup>	62.79 <sup>14</sup>	22.683 <sup>152</sup>	75.78 <sup>67</sup>
20.3	33.080 <sup>248</sup>	67.60 <sup>18</sup>	57.057 <sup>287</sup>	53.49 <sup>28</sup>	19.68 <sup>41</sup>	62.93 <sup>45</sup>	22.531 <sup>160</sup>	76.45 <sup>35</sup>
30.2	32.832 <sup>245</sup>	67.42 <sup>68</sup>	56.770 <sup>280</sup>	53.21 <sup>80</sup>	19.27 <sup>39</sup>	62.48 <sup>101</sup>	22.371 <sup>161</sup>	76.80 <sup>2</sup>
Feb. 9.2	32.587 <sup>232</sup>	66.74 <sup>116</sup>	56.490 <sup>267</sup>	52.41 <sup>131</sup>	18.88 <sup>38</sup>	61.47 <sup>154</sup>	22.210 <sup>156</sup>	76.82 <sup>31</sup>
19.2	32.355 <sup>211</sup>	65.58 <sup>161</sup>	56.223 <sup>242</sup>	51.10 <sup>178</sup>	18.50 <sup>34</sup>	59.93 <sup>203</sup>	22.054 <sup>143</sup>	76.51 <sup>64</sup>
März 1.1	32.144 <sup>181</sup>	63.97 <sup>203</sup>	55.981 <sup>209</sup>	49.32 <sup>220</sup>	18.16 <sup>30</sup>	57.90 <sup>246</sup>	21.911 <sup>124</sup>	75.87 <sup>95</sup>
11.1	31.963 <sup>143</sup>	61.94 <sup>239</sup>	55.772 <sup>167</sup>	47.12 <sup>257</sup>	17.86 <sup>24</sup>	55.44 <sup>284</sup>	21.787 <sup>95</sup>	74.92 <sup>126</sup>
21.1	31.820 <sup>98</sup>	59.55 <sup>270</sup>	55.605 <sup>117</sup>	44.55 <sup>289</sup>	17.62 <sup>18</sup>	52.60 <sup>315</sup>	21.692 <sup>61</sup>	73.66 <sup>155</sup>
31.1	31.722 <sup>47</sup>	56.85 <sup>296</sup>	55.488 <sup>62</sup>	41.66 <sup>314</sup>	17.44 <sup>11</sup>	49.45 <sup>338</sup>	21.631 <sup>22</sup>	72.11 <sup>181</sup>
Apr. 10.0	31.675 <sup>7</sup>	53.89 <sup>315</sup>	55.426 <sup>2</sup>	38.52 <sup>332</sup>	17.33 <sup>3</sup>	46.07 <sup>355</sup>	21.609 <sup>22</sup>	70.30 <sup>204</sup>
20.0	31.682 <sup>66</sup>	50.74 <sup>328</sup>	55.424 <sup>62</sup>	35.20 <sup>344</sup>	17.30 <sup>4</sup>	42.52 <sup>363</sup>	21.631 <sup>68</sup>	68.26 <sup>225</sup>
30.0	31.748 <sup>123</sup>	47.46 <sup>334</sup>	55.486 <sup>125</sup>	31.76 <sup>347</sup>	17.34 <sup>13</sup>	38.89 <sup>364</sup>	21.699 <sup>114</sup>	66.01 <sup>240</sup>
Mai 10.0	31.871 <sup>180</sup>	44.12 <sup>331</sup>	55.611 <sup>187</sup>	28.29 <sup>344</sup>	17.47 <sup>21</sup>	35.25 <sup>356</sup>	21.813 <sup>159</sup>	63.61 <sup>251</sup>
19.9	32.051 <sup>233</sup>	40.81 <sup>322</sup>	55.798 <sup>246</sup>	24.85 <sup>332</sup>	17.68 <sup>28</sup>	31.69 <sup>340</sup>	21.972 <sup>199</sup>	61.10 <sup>256</sup>
29.9	32.284 <sup>280</sup>	37.59 <sup>306</sup>	56.044 <sup>298</sup>	21.53 <sup>312</sup>	17.96 <sup>35</sup>	28.29 <sup>317</sup>	22.171 <sup>236</sup>	58.54 <sup>256</sup>
Juni 8.9	32.564 <sup>320</sup>	34.53 <sup>280</sup>	56.342 <sup>343</sup>	18.41 <sup>285</sup>	18.31 <sup>41</sup>	25.12 <sup>286</sup>	22.407 <sup>267</sup>	55.98 <sup>249</sup>
18.8	32.884 <sup>351</sup>	31.73 <sup>249</sup>	56.685 <sup>379</sup>	15.56 <sup>251</sup>	18.72 <sup>45</sup>	22.26 <sup>246</sup>	22.674 <sup>290</sup>	53.49 <sup>235</sup>
28.8	33.235 <sup>374</sup>	29.24 <sup>211</sup>	57.064 <sup>405</sup>	13.05 <sup>209</sup>	19.17 <sup>49</sup>	19.80 <sup>202</sup>	22.964 <sup>304</sup>	51.14 <sup>215</sup>
Juli 8.8	33.609 <sup>386</sup>	27.13 <sup>166</sup>	57.469 <sup>419</sup>	10.96 <sup>163</sup>	19.66 <sup>52</sup>	17.78 <sup>150</sup>	23.268 <sup>312</sup>	48.99 <sup>190</sup>
18.8	33.995 <sup>388</sup>	25.47 <sup>118</sup>	57.888 <sup>424</sup>	9.33 <sup>112</sup>	20.18 <sup>52</sup>	16.28 <sup>96</sup>	23.580 <sup>311</sup>	47.09 <sup>160</sup>
28.7	34.383 <sup>378</sup>	24.29 <sup>66</sup>	58.312 <sup>415</sup>	8.21 <sup>57</sup>	20.70 <sup>52</sup>	15.32 <sup>38</sup>	23.891 <sup>303</sup>	45.49 <sup>124</sup>
Aug. 7.7	34.761 <sup>360</sup>	23.63 <sup>12</sup>	58.727 <sup>396</sup>	7.64 <sup>1</sup>	21.22 <sup>50</sup>	14.94 <sup>21</sup>	24.194 <sup>286</sup>	44.25 <sup>85</sup>
17.7	35.121 <sup>332</sup>	23.51 <sup>43</sup>	59.123 <sup>367</sup>	7.63 <sup>56</sup>	21.72 <sup>46</sup>	15.15 <sup>80</sup>	24.480 <sup>265</sup>	43.40 <sup>44</sup>
27.6	35.453 <sup>296</sup>	23.94 <sup>95</sup>	59.490 <sup>328</sup>	8.19 <sup>110</sup>	22.18 <sup>42</sup>	15.95 <sup>136</sup>	24.745 <sup>238</sup>	42.96 <sup>3</sup>
Sept. 6.6	35.749 <sup>254</sup>	24.89 <sup>144</sup>	59.818 <sup>281</sup>	9.29 <sup>159</sup>	22.60 <sup>35</sup>	17.31 <sup>187</sup>	24.983 <sup>207</sup>	42.93 <sup>37</sup>
16.6	36.003 <sup>206</sup>	26.33 <sup>188</sup>	60.099 <sup>229</sup>	10.88 <sup>204</sup>	22.95 <sup>29</sup>	19.18 <sup>233</sup>	25.190 <sup>173</sup>	43.30 <sup>75</sup>
26.6	36.209 <sup>156</sup>	28.21 <sup>224</sup>	60.328 <sup>173</sup>	12.92 <sup>242</sup>	23.24 <sup>21</sup>	21.51 <sup>268</sup>	25.363 <sup>138</sup>	44.05 <sup>110</sup>
Okt. 6.5	36.365 <sup>103</sup>	30.45 <sup>252</sup>	60.501 <sup>113</sup>	15.34 <sup>268</sup>	23.45 <sup>14</sup>	24.19 <sup>294</sup>	25.501 <sup>103</sup>	45.15 <sup>138</sup>
16.5	36.468 <sup>51</sup>	32.97 <sup>270</sup>	60.614 <sup>54</sup>	18.02 <sup>284</sup>	23.59 <sup>5</sup>	27.13 <sup>309</sup>	25.604 <sup>67</sup>	46.53 <sup>159</sup>
26.5	36.519 <sup>0</sup>	35.67 <sup>276</sup>	60.668 <sup>4</sup>	20.86 <sup>291</sup>	23.64 <sup>3</sup>	30.22 <sup>312</sup>	25.671 <sup>33</sup>	48.12 <sup>175</sup>
Nov. 5.5	36.519 <sup>49</sup>	38.43 <sup>272</sup>	60.664 <sup>60</sup>	23.77 <sup>285</sup>	23.61 <sup>10</sup>	33.34 <sup>303</sup>	25.704 <sup>1</sup>	49.87 <sup>181</sup>
15.4	36.470 <sup>93</sup>	41.15 <sup>257</sup>	60.604 <sup>111</sup>	26.62 <sup>267</sup>	23.51 <sup>17</sup>	36.37 <sup>282</sup>	25.705 <sup>30</sup>	51.68 <sup>181</sup>
25.4	36.377 <sup>133</sup>	43.72 <sup>233</sup>	60.493 <sup>157</sup>	29.29 <sup>240</sup>	23.34 <sup>24</sup>	39.19 <sup>250</sup>	25.675 <sup>58</sup>	53.49 <sup>172</sup>
Dez. 5.4	36.244 <sup>168</sup>	46.05 <sup>199</sup>	60.336 <sup>197</sup>	31.69 <sup>204</sup>	23.10 <sup>29</sup>	41.69 <sup>209</sup>	25.617 <sup>84</sup>	55.21 <sup>158</sup>
15.3	36.076 <sup>197</sup>	48.04 <sup>158</sup>	60.139 <sup>230</sup>	33.73 <sup>161</sup>	22.81 <sup>34</sup>	43.78 <sup>160</sup>	25.533 <sup>108</sup>	56.79 <sup>137</sup>
25.3	35.879 <sup>220</sup>	49.62 <sup>113</sup>	59.909 <sup>256</sup>	35.34 <sup>110</sup>	22.47 <sup>37</sup>	45.38 <sup>105</sup>	25.425 <sup>127</sup>	58.16 <sup>112</sup>
35.3	35.659	50.75	59.653	36.44	22.10	46.43	25.298	59.28
Mittl. Ort sec $\delta$ , tg $\delta$	33.592 1.458	46.43 -1.060	57.666 1.624	31.32 -1.280	20.58 2.126	39.31 -1.876	22.613 1.074	61.34 -0.393

# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	70) $\delta$ Cassiopeiae		73) $\gamma$ Andromedae		74) $\alpha$ Arietis		75) $\beta$ Trianguli	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	1 <sup>h</sup> 56 <sup>m</sup>	+72° 2'	1 <sup>h</sup> 59 <sup>m</sup>	+41° 57'	2 <sup>h</sup> 2 <sup>m</sup>	+23° 5'	2 <sup>h</sup> 4 <sup>m</sup>	+34° 37'
Jan. 0.3	52.62 <sub>56</sub>	71.30 <sub>93</sub>	10.950 <sub>178</sub>	45.59 <sub>13</sub>	50.377 <sub>127</sub>	57.31 <sub>33</sub>	58.233 <sub>150</sub>	29.73 <sub>3</sub>
10.3	52.06 <sub>60</sub>	72.23 <sub>36</sub>	10.772 <sub>199</sub>	45.72 <sub>25</sub>	50.250 <sub>146</sub>	56.98 <sub>51</sub>	58.083 <sub>170</sub>	29.70 <sub>32</sub>
20.3	51.46 <sub>63</sub>	72.59 <sub>23</sub>	10.573 <sub>212</sub>	45.47 <sub>59</sub>	50.104 <sub>157</sub>	56.47 <sub>67</sub>	57.913 <sub>185</sub>	29.38 <sub>60</sub>
30.2	50.83 <sub>63</sub>	72.36 <sub>81</sub>	10.361 <sub>217</sub>	44.88 <sub>93</sub>	49.947 <sub>163</sub>	55.80 <sub>80</sub>	57.728 <sub>190</sub>	28.78 <sub>86</sub>
Feb. 9.2	50.20 <sub>59</sub>	71.55 <sub>135</sub>	10.144 <sub>210</sub>	43.95 <sub>122</sub>	49.784 <sub>160</sub>	55.00 <sub>90</sub>	57.538 <sub>186</sub>	27.92 <sub>108</sub>
19.2	49.61 <sub>54</sub>	70.20 <sub>183</sub>	9.934 <sub>192</sub>	42.73 <sub>146</sub>	49.624 <sub>147</sub>	54.10 <sub>97</sub>	57.352 <sub>173</sub>	26.84 <sub>126</sub>
März 1.2	49.07 <sub>46</sub>	68.37 <sub>223</sub>	9.742 <sub>164</sub>	41.27 <sub>164</sub>	49.477 <sub>126</sub>	53.13 <sub>99</sub>	57.179 <sub>147</sub>	25.58 <sub>138</sub>
11.1	48.61 <sub>36</sub>	66.14 <sub>254</sub>	9.578 <sub>124</sub>	39.63 <sub>176</sub>	49.351 <sub>97</sub>	52.14 <sub>95</sub>	57.032 <sub>114</sub>	24.20 <sub>144</sub>
21.1	48.25 <sub>23</sub>	63.60 <sub>274</sub>	9.454 <sub>76</sub>	37.87 <sub>178</sub>	49.254 <sub>59</sub>	51.19 <sub>88</sub>	56.918 <sub>72</sub>	22.76 <sub>143</sub>
31.1	48.02 <sub>10</sub>	60.86 <sub>283</sub>	9.378 <sub>23</sub>	36.09 <sub>172</sub>	49.195 <sub>16</sub>	50.31 <sub>74</sub>	56.846 <sub>24</sub>	21.33 <sub>135</sub>
Apr. 10.0	47.92 <sub>3</sub>	58.03 <sub>281</sub>	9.355 <sub>37</sub>	34.37 <sub>159</sub>	49.179 <sub>30</sub>	49.57 <sub>55</sub>	56.822 <sub>30</sub>	19.98 <sub>121</sub>
20.0	47.95 <sub>16</sub>	55.22 <sub>268</sub>	9.392 <sub>96</sub>	32.78 <sub>140</sub>	49.209 <sub>80</sub>	49.02 <sub>33</sub>	56.852 <sub>84</sub>	18.77 <sub>100</sub>
30.0	48.11 <sub>31</sub>	52.54 <sub>245</sub>	9.488 <sub>155</sub>	31.38 <sub>113</sub>	49.289 <sub>129</sub>	48.69 <sub>9</sub>	56.936 <sub>138</sub>	17.77 <sub>75</sub>
Mai 10.0	48.42 <sub>42</sub>	50.09 <sub>214</sub>	9.643 <sub>211</sub>	30.25 <sub>83</sub>	49.418 <sub>175</sub>	48.60 <sub>19</sub>	57.074 <sub>190</sub>	17.02 <sub>46</sub>
19.9	48.84 <sub>54</sub>	47.95 <sub>176</sub>	9.854 <sub>262</sub>	29.42 <sub>48</sub>	49.593 <sub>218</sub>	48.79 <sub>47</sub>	57.264 <sub>236</sub>	16.56 <sub>15</sub>
29.9	49.38 <sub>62</sub>	46.19 <sub>133</sub>	10.116 <sub>304</sub>	28.94 <sub>13</sub>	49.811 <sub>253</sub>	49.26 <sub>73</sub>	57.500 <sub>277</sub>	16.41 <sub>18</sub>
Juni 8.9	50.00 <sub>70</sub>	44.86 <sub>86</sub>	10.420 <sub>337</sub>	28.81 <sub>24</sub>	50.064 <sub>284</sub>	49.99 <sub>99</sub>	57.777 <sub>309</sub>	16.59 <sub>50</sub>
18.9	50.70 <sub>76</sub>	44.00 <sub>37</sub>	10.757 <sub>363</sub>	29.05 <sub>61</sub>	50.348 <sub>305</sub>	50.98 <sub>122</sub>	58.086 <sub>332</sub>	17.09 <sub>81</sub>
28.8	51.46 <sub>79</sub>	43.63 <sub>14</sub>	11.120 <sub>377</sub>	29.66 <sub>94</sub>	50.653 <sub>318</sub>	52.20 <sub>141</sub>	58.418 <sub>348</sub>	17.90 <sub>109</sub>
Juli 8.8	52.25 <sub>80</sub>	43.77 <sub>63</sub>	11.497 <sub>383</sub>	30.60 <sub>127</sub>	50.971 <sub>324</sub>	53.61 <sub>157</sub>	58.766 <sub>353</sub>	18.99 <sub>135</sub>
18.8	53.05 <sub>80</sub>	44.40 <sub>111</sub>	11.880 <sub>378</sub>	31.87 <sub>154</sub>	51.295 <sub>320</sub>	55.18 <sub>168</sub>	59.119 <sub>350</sub>	20.34 <sub>158</sub>
28.7	53.85 <sub>77</sub>	45.51 <sub>157</sub>	12.258 <sub>367</sub>	33.41 <sub>178</sub>	51.615 <sub>311</sub>	56.86 <sub>175</sub>	59.469 <sub>341</sub>	21.92 <sub>174</sub>
Aug. 7.7	54.62 <sub>74</sub>	47.08 <sub>197</sub>	12.625 <sub>347</sub>	35.19 <sub>198</sub>	51.926 <sub>295</sub>	58.61 <sub>177</sub>	59.810 <sub>323</sub>	23.66 <sub>188</sub>
17.7	55.36 <sub>68</sub>	49.05 <sub>235</sub>	12.972 <sub>321</sub>	37.17 <sub>213</sub>	52.221 <sub>273</sub>	60.38 <sub>175</sub>	60.133 <sub>300</sub>	25.54 <sub>198</sub>
27.7	56.04 <sub>62</sub>	51.40 <sub>268</sub>	13.293 <sub>290</sub>	39.30 <sub>224</sub>	52.494 <sub>247</sub>	62.13 <sub>170</sub>	60.433 <sub>272</sub>	27.52 <sub>201</sub>
Sept. 6.6	56.66 <sub>55</sub>	54.08 <sub>294</sub>	13.583 <sub>256</sub>	41.54 <sub>229</sub>	52.741 <sub>218</sub>	63.83 <sub>160</sub>	60.705 <sub>241</sub>	29.53 <sub>202</sub>
16.6	57.21 <sub>46</sub>	57.02 <sub>314</sub>	13.839 <sub>218</sub>	43.83 <sub>231</sub>	52.959 <sub>188</sub>	65.43 <sub>148</sub>	60.946 <sub>208</sub>	31.55 <sub>198</sub>
26.6	57.67 <sub>37</sub>	60.16 <sub>330</sub>	14.057 <sub>181</sub>	46.14 <sub>229</sub>	53.147 <sub>156</sub>	66.91 <sub>134</sub>	61.154 <sub>173</sub>	33.53 <sub>192</sub>
Okt. 6.6	58.04 <sub>27</sub>	63.46 <sub>337</sub>	14.238 <sub>140</sub>	48.43 <sub>221</sub>	53.303 <sub>123</sub>	68.25 <sub>119</sub>	61.327 <sub>138</sub>	35.45 <sub>183</sub>
16.5	58.31 <sub>17</sub>	66.83 <sub>339</sub>	14.378 <sub>101</sub>	50.64 <sub>211</sub>	53.426 <sub>91</sub>	69.44 <sub>103</sub>	61.465 <sub>102</sub>	37.28 <sub>170</sub>
26.5	58.48 <sub>6</sub>	70.22 <sub>332</sub>	14.479 <sub>61</sub>	52.75 <sub>197</sub>	53.517 <sub>60</sub>	70.47 <sub>86</sub>	61.567 <sub>66</sub>	38.98 <sub>154</sub>
Nov. 5.5	58.54 <sub>5</sub>	73.54 <sub>317</sub>	14.540 <sub>21</sub>	54.72 <sub>178</sub>	53.577 <sub>28</sub>	71.33 <sub>68</sub>	61.633 <sub>30</sub>	40.52 <sub>138</sub>
15.4	58.49 <sub>15</sub>	76.71 <sub>294</sub>	14.561 <sub>19</sub>	56.50 <sub>157</sub>	53.605 <sub>3</sub>	72.01 <sub>51</sub>	61.663 <sub>4</sub>	41.90 <sub>117</sub>
25.4	58.34 <sub>25</sub>	79.65 <sub>265</sub>	14.542 <sub>57</sub>	58.07 <sub>132</sub>	53.602 <sub>32</sub>	72.52 <sub>34</sub>	61.659 <sub>40</sub>	43.07 <sub>96</sub>
Dez. 5.4	58.09 <sub>36</sub>	82.30 <sub>226</sub>	14.485 <sub>95</sub>	59.39 <sub>102</sub>	53.570 <sub>62</sub>	72.86 <sub>15</sub>	61.619 <sub>73</sub>	44.03 <sub>71</sub>
15.4	57.73 <sub>45</sub>	84.56 <sub>181</sub>	14.390 <sub>130</sub>	60.41 <sub>71</sub>	53.508 <sub>88</sub>	73.01 <sub>2</sub>	61.546 <sub>105</sub>	44.74 <sub>45</sub>
25.3	57.28 <sub>52</sub>	86.37 <sub>130</sub>	14.260 <sub>161</sub>	61.12 <sub>36</sub>	53.420 <sub>113</sub>	72.99 <sub>21</sub>	61.441 <sub>134</sub>	45.19 <sub>16</sub>
35.3	56.76	87.67	14.099	61.48	53.307	72.78	61.307	45.35
Mittl. Ort	49.45	58.78	9.881	39.19	49.675	56.58	57.310	25.66
sec $\delta$ , tg $\delta$	3.245	+3.087	1.345	+0.899	1.087	+0.427	1.215	+0.691



Mittlere Zeit Greenw.	76) 55 Cassiopeiae		78) Lac. $\mu$ Fornacis		80) 67 Ceti		85) $\xi^2$ Ceti	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	2 <sup>h</sup> 8 <sup>m</sup>	+66° 9'	2 <sup>h</sup> 9 <sup>m</sup>	-31° 4'	2 <sup>h</sup> 13 <sup>m</sup>	-6° 46'	2 <sup>h</sup> 24 <sup>m</sup>	+8° 6'
Jan. 0.3	27.48 <sup>39</sup>	63.21 <sup>91</sup>	31.296 <sup>159</sup>	80.90 <sup>109</sup>	8.906 <sup>116</sup>	44.36 <sup>90</sup>	4.362 <sup>109</sup>	51.41 <sup>63</sup>
10.3	27.09 <sup>43</sup>	64.12 <sup>37</sup>	31.137 <sup>176</sup>	81.99 <sup>70</sup>	8.790 <sup>133</sup>	45.26 <sup>76</sup>	4.253 <sup>129</sup>	50.78 <sup>63</sup>
20.3	26.66 <sup>46</sup>	64.49 <sup>18</sup>	30.961 <sup>186</sup>	82.69 <sup>29</sup>	8.657 <sup>145</sup>	46.02 <sup>58</sup>	4.124 <sup>143</sup>	50.15 <sup>62</sup>
30.2	26.20 <sup>46</sup>	64.31 <sup>72</sup>	30.775 <sup>188</sup>	82.98 <sup>12</sup>	8.512 <sup>151</sup>	46.60 <sup>38</sup>	3.981 <sup>152</sup>	49.53 <sup>58</sup>
Feb. 9.2	25.74 <sup>45</sup>	63.59 <sup>122</sup>	30.587 <sup>184</sup>	82.86 <sup>52</sup>	8.361 <sup>149</sup>	46.98 <sup>19</sup>	3.829 <sup>153</sup>	48.95 <sup>53</sup>
19.2	25.29 <sup>41</sup>	62.37 <sup>168</sup>	30.403 <sup>172</sup>	82.34 <sup>92</sup>	8.212 <sup>141</sup>	47.17 <sup>3</sup>	3.676 <sup>146</sup>	48.42 <sup>46</sup>
März 1.2	24.88 <sup>36</sup>	60.69 <sup>206</sup>	30.231 <sup>151</sup>	81.42 <sup>129</sup>	8.071 <sup>123</sup>	47.14 <sup>26</sup>	3.530 <sup>130</sup>	47.96 <sup>34</sup>
11.1	24.52 <sup>28</sup>	58.63 <sup>236</sup>	30.080 <sup>123</sup>	80.13 <sup>165</sup>	7.948 <sup>99</sup>	46.88 <sup>49</sup>	3.400 <sup>126</sup>	47.62 <sup>22</sup>
21.1	24.24 <sup>19</sup>	56.27 <sup>255</sup>	29.957 <sup>87</sup>	78.48 <sup>196</sup>	7.849 <sup>67</sup>	46.39 <sup>74</sup>	3.294 <sup>74</sup>	47.40 <sup>7</sup>
31.1	24.05 <sup>10</sup>	53.72 <sup>264</sup>	29.870 <sup>47</sup>	76.52 <sup>225</sup>	7.782 <sup>30</sup>	45.65 <sup>97</sup>	3.220 <sup>36</sup>	47.33 <sup>12</sup>
Apr. 10.1	23.95 <sup>1</sup>	51.08 <sup>262</sup>	29.823 <sup>0</sup>	74.27 <sup>249</sup>	7.752 <sup>12</sup>	44.68 <sup>120</sup>	3.184 <sup>7</sup>	47.45 <sup>33</sup>
20.0	23.96 <sup>12</sup>	48.46 <sup>250</sup>	29.823 <sup>48</sup>	71.78 <sup>268</sup>	7.764 <sup>56</sup>	43.48 <sup>143</sup>	3.191 <sup>52</sup>	47.78 <sup>54</sup>
30.0	24.08 <sup>22</sup>	45.96 <sup>229</sup>	29.871 <sup>98</sup>	69.10 <sup>281</sup>	7.820 <sup>102</sup>	42.05 <sup>164</sup>	3.243 <sup>98</sup>	48.32 <sup>76</sup>
Mai 10.0	24.30 <sup>32</sup>	43.67 <sup>200</sup>	29.969 <sup>146</sup>	66.29 <sup>289</sup>	7.922 <sup>145</sup>	40.41 <sup>181</sup>	3.341 <sup>142</sup>	49.08 <sup>98</sup>
20.0	24.62 <sup>40</sup>	41.67 <sup>164</sup>	30.115 <sup>191</sup>	63.40 <sup>291</sup>	8.067 <sup>185</sup>	38.60 <sup>195</sup>	3.483 <sup>184</sup>	50.06 <sup>119</sup>
29.9	25.02 <sup>49</sup>	40.03 <sup>124</sup>	30.306 <sup>233</sup>	60.49 <sup>285</sup>	8.252 <sup>221</sup>	36.65 <sup>204</sup>	3.667 <sup>221</sup>	51.25 <sup>137</sup>
Juni 8.9	25.51 <sup>54</sup>	38.79 <sup>79</sup>	30.539 <sup>267</sup>	57.64 <sup>272</sup>	8.473 <sup>251</sup>	34.61 <sup>209</sup>	3.888 <sup>251</sup>	52.62 <sup>151</sup>
18.9	26.05 <sup>59</sup>	38.00 <sup>32</sup>	30.806 <sup>294</sup>	54.92 <sup>253</sup>	8.724 <sup>275</sup>	32.52 <sup>209</sup>	4.139 <sup>276</sup>	54.13 <sup>163</sup>
28.8	26.64 <sup>62</sup>	37.68 <sup>15</sup>	31.100 <sup>314</sup>	52.39 <sup>227</sup>	8.999 <sup>290</sup>	30.43 <sup>202</sup>	4.415 <sup>291</sup>	55.76 <sup>170</sup>
Juli 8.8	27.26 <sup>63</sup>	37.83 <sup>61</sup>	31.414 <sup>326</sup>	50.12 <sup>194</sup>	9.289 <sup>298</sup>	28.41 <sup>189</sup>	4.706 <sup>301</sup>	57.46 <sup>171</sup>
18.8	27.89 <sup>63</sup>	38.44 <sup>106</sup>	31.740 <sup>328</sup>	48.18 <sup>157</sup>	9.587 <sup>299</sup>	26.52 <sup>173</sup>	5.007 <sup>302</sup>	59.17 <sup>169</sup>
28.8	28.52 <sup>62</sup>	39.50 <sup>149</sup>	32.068 <sup>323</sup>	46.61 <sup>114</sup>	9.886 <sup>292</sup>	24.79 <sup>151</sup>	5.309 <sup>296</sup>	60.86 <sup>161</sup>
Aug. 7.7	29.14 <sup>59</sup>	40.99 <sup>187</sup>	32.391 <sup>309</sup>	45.47 <sup>68</sup>	10.178 <sup>279</sup>	23.28 <sup>124</sup>	5.605 <sup>285</sup>	62.47 <sup>149</sup>
17.7	29.73 <sup>56</sup>	42.86 <sup>221</sup>	32.700 <sup>288</sup>	44.79 <sup>21</sup>	10.457 <sup>261</sup>	22.04 <sup>95</sup>	5.890 <sup>267</sup>	63.96 <sup>133</sup>
27.7	30.29 <sup>51</sup>	45.07 <sup>252</sup>	32.988 <sup>262</sup>	44.58 <sup>27</sup>	10.718 <sup>237</sup>	21.09 <sup>63</sup>	6.157 <sup>245</sup>	65.29 <sup>114</sup>
Sept. 6.6	30.80 <sup>45</sup>	47.59 <sup>276</sup>	33.250 <sup>230</sup>	44.85 <sup>73</sup>	10.955 <sup>211</sup>	20.46 <sup>31</sup>	6.402 <sup>221</sup>	66.43 <sup>94</sup>
16.6	31.25 <sup>38</sup>	50.35 <sup>295</sup>	33.480 <sup>195</sup>	45.58 <sup>116</sup>	11.166 <sup>181</sup>	20.15 <sup>0</sup>	6.623 <sup>193</sup>	67.37 <sup>71</sup>
26.6	31.63 <sup>32</sup>	53.30 <sup>308</sup>	33.675 <sup>157</sup>	46.74 <sup>154</sup>	11.347 <sup>151</sup>	20.15 <sup>31</sup>	6.816 <sup>165</sup>	68.08 <sup>49</sup>
Okt. 6.6	31.95 <sup>25</sup>	56.38 <sup>315</sup>	33.832 <sup>118</sup>	48.28 <sup>185</sup>	11.498 <sup>119</sup>	20.46 <sup>58</sup>	6.981 <sup>135</sup>	68.57 <sup>28</sup>
16.5	32.20 <sup>17</sup>	59.53 <sup>317</sup>	33.950 <sup>80</sup>	50.13 <sup>208</sup>	11.617 <sup>89</sup>	21.04 <sup>80</sup>	7.116 <sup>105</sup>	68.85 <sup>8</sup>
26.5	32.37 <sup>10</sup>	62.70 <sup>310</sup>	34.030 <sup>40</sup>	52.21 <sup>222</sup>	11.706 <sup>58</sup>	21.84 <sup>97</sup>	7.221 <sup>75</sup>	68.93 <sup>10</sup>
Nov. 5.5	32.47 <sup>1</sup>	65.80 <sup>297</sup>	34.070 <sup>3</sup>	54.43 <sup>228</sup>	11.764 <sup>28</sup>	22.81 <sup>111</sup>	7.296 <sup>46</sup>	68.83 <sup>25</sup>
15.5	32.48 <sup>7</sup>	68.77 <sup>277</sup>	34.073 <sup>32</sup>	56.71 <sup>224</sup>	11.792 <sup>1</sup>	23.92 <sup>117</sup>	7.342 <sup>16</sup>	68.58 <sup>36</sup>
25.4	32.41 <sup>15</sup>	71.54 <sup>249</sup>	34.041 <sup>65</sup>	58.95 <sup>211</sup>	11.791 <sup>29</sup>	25.09 <sup>119</sup>	7.358 <sup>12</sup>	68.22 <sup>46</sup>
Dez. 5.4	32.26 <sup>22</sup>	74.03 <sup>213</sup>	33.976 <sup>96</sup>	61.06 <sup>190</sup>	11.762 <sup>56</sup>	26.28 <sup>116</sup>	7.346 <sup>41</sup>	67.76 <sup>53</sup>
15.4	32.04 <sup>30</sup>	76.16 <sup>172</sup>	33.880 <sup>123</sup>	62.96 <sup>162</sup>	11.706 <sup>80</sup>	27.44 <sup>108</sup>	7.305 <sup>68</sup>	67.23 <sup>58</sup>
25.3	31.74 <sup>36</sup>	77.88 <sup>125</sup>	33.757 <sup>146</sup>	64.58 <sup>130</sup>	11.626 <sup>103</sup>	28.52 <sup>98</sup>	7.237 <sup>94</sup>	66.65 <sup>60</sup>
35.3	31.38	79.13	33.611	65.88	11.523	29.50	7.143	66.05
Mittl. Ort	25.02	52.28	31.062	64.40	8.483	35.01	3.742	56.37
sec $\delta$ , tg $\delta$	2.475	+2.264	1.168	-0.603	1.007	-0.119	1.010	+0.143



# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	87) 36 H. Cassiopeiae		90) μ Hydri		89) ν Arietis		91) δ Ceti	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	2 <sup>h</sup> 30 <sup>m</sup>	+72° 28'	2 <sup>h</sup> 33 <sup>m</sup>	-79° 26'	2 <sup>h</sup> 34 <sup>m</sup>	+21° 37'	2 <sup>h</sup> 35 <sup>m</sup>	
1923								
Jan. 0.3	44.14	68.46	16.90	67.94	27.212	44.11	32.622	-18.43
10.3	43.62	69.81	15.76	68.89	27.099	43.86	32.517	-19.26
20.3	43.03	70.62	14.56	69.23	26.962	43.48	32.391	-20.00
30.3	42.40	70.85	13.33	68.96	26.807	42.96	32.248	-20.63
Feb. 9.2	41.74	70.51	12.11	68.10	26.641	42.34	32.095	-21.13
19.2	41.10	69.60	10.94	66.68	26.472	41.62	31.939	-21.49
März 1.2	40.50	68.17	9.83	64.73	26.309	40.84	31.789	-21.70
11.1	39.96	66.29	8.82	62.33	26.162	40.03	31.652	-21.74
21.1	39.51	64.04	7.94	59.53	26.041	39.24	31.538	-21.58
31.1	39.18	61.50	7.20	56.39	25.952	38.51	31.453	-21.23
Apr. 10.1	38.97	58.79	6.63	53.01	25.905	37.89	31.405	-20.67
20.0	38.90	56.01	6.23	49.44	25.903	37.42	31.398	-19.88
30.0	38.97	53.28	6.03	45.76	25.949	37.13	31.435	-18.88
Mai 10.0	39.18	50.69	6.02	42.07	26.045	37.06	31.518	-17.66
20.0	39.52	48.33	6.20	38.43	26.189	37.23	31.646	-16.24
29.9	39.99	46.29	6.58	34.94	26.377	37.65	31.815	-14.66
Juni 8.9	40.56	44.61	7.14	31.68	26.605	38.30	32.021	-12.94
18.9	41.23	43.36	7.87	28.71	26.866	39.19	32.260	-11.12
28.8	41.96	42.56	8.75	26.13	27.153	40.28	32.524	-9.25
Juli 8.8	42.75	42.23	9.76	23.99	27.459	41.55	32.807	-7.38
18.8	43.57	42.39	10.86	22.36	27.775	42.95	33.100	-5.56
28.8	44.40	43.02	12.03	21.28	28.093	44.46	33.397	-3.84
Aug. 7.7	45.22	44.11	13.23	20.79	28.408	46.03	33.691	-2.28
17.7	46.03	45.64	14.43	20.91	28.711	47.61	33.975	-0.92
27.7	46.79	47.56	15.58	21.63	28.998	49.17	34.243	+0.22
Sept. 6.7	47.50	49.84	16.65	22.94	29.263	50.67	34.492	+1.09
16.6	48.15	52.43	17.61	24.79	29.504	52.08	34.718	+1.69
26.6	48.72	55.28	18.42	27.13	29.718	53.37	34.917	+2.00
Okt. 6.6	49.20	58.34	19.05	29.87	29.904	54.53	35.088	+2.05
16.5	49.60	61.54	19.48	32.91	30.059	55.55	35.231	+1.84
26.5	49.89	64.82	19.69	36.14	30.184	56.42	35.344	+1.41
Nov. 5.5	50.08	68.11	19.69	39.44	30.277	57.13	35.427	+0.80
15.5	50.15	71.34	19.47	42.67	30.339	57.70	35.480	+0.04
25.4	50.11	74.42	19.03	45.72	30.369	58.14	35.504	-0.81
Dez. 5.4	49.95	77.27	18.39	48.46	30.367	58.43	35.498	-1.71
15.4	49.68	79.80	17.58	50.79	30.333	58.57	35.463	-2.64
25.4	49.30	81.96	16.62	52.63	30.267	58.58	35.400	-3.54
35.3	48.83	83.65	15.55	53.92	30.171	58.44	35.310	-4.38
Mittl. Ort	40.47	58.25	15.92	43.75	26.372	45.36	32.022	-10.53
sec δ, tg δ	3.322	+3.168	5.459	-5.367	1.076	+0.396	1.000	0.000

Mittlere Zeit Greenw.	93) $\beta$ Persei		97) $\pi$ Ceti		98) $\mu$ Ceti		100) $\alpha$ Arietis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$2^h 38^m$	$+48^\circ 54'$	$2^h 40^m$	$-14^\circ 10'$	$2^h 40^m$	$+9^\circ 47'$	$2^h 45^m$	$+26^\circ 56'$
Jan. 0.3	57.362 <sup>184</sup>	19.13 <sup>67</sup>	27.953 <sup>115</sup>	74.93 <sup>113</sup>	47.317 <sup>102</sup>	18.31 <sup>58</sup>	27.763 <sup>114</sup>	38.29 <sup>4</sup>
10.3	57.178 <sup>218</sup>	19.80 <sup>29</sup>	27.838 <sup>137</sup>	76.06 <sup>89</sup>	47.215 <sup>125</sup>	17.73 <sup>59</sup>	27.649 <sup>141</sup>	38.25 <sup>22</sup>
20.3	56.960 <sup>245</sup>	20.09 <sup>11</sup>	27.701 <sup>153</sup>	76.95 <sup>64</sup>	47.090 <sup>143</sup>	17.14 <sup>58</sup>	27.508 <sup>162</sup>	38.03 <sup>39</sup>
30.3	56.715 <sup>260</sup>	19.98 <sup>51</sup>	27.548 <sup>164</sup>	77.59 <sup>37</sup>	46.947 <sup>154</sup>	16.56 <sup>57</sup>	27.346 <sup>177</sup>	37.64 <sup>57</sup>
Feb. 9.2	56.455 <sup>262</sup>	19.47 <sup>88</sup>	27.384 <sup>166</sup>	77.96 <sup>9</sup>	46.793 <sup>159</sup>	15.99 <sup>53</sup>	27.169 <sup>181</sup>	37.07 <sup>72</sup>
19.2	56.193 <sup>252</sup>	18.59 <sup>122</sup>	27.218 <sup>161</sup>	78.05 <sup>19</sup>	46.634 <sup>154</sup>	15.46 <sup>47</sup>	26.988 <sup>176</sup>	36.35 <sup>84</sup>
März 1.2	55.941 <sup>227</sup>	17.37 <sup>151</sup>	27.057 <sup>148</sup>	77.86 <sup>49</sup>	46.480 <sup>141</sup>	14.99 <sup>39</sup>	26.812 <sup>162</sup>	35.51 <sup>93</sup>
11.1	55.714 <sup>189</sup>	15.86 <sup>171</sup>	26.909 <sup>126</sup>	77.37 <sup>77</sup>	46.339 <sup>118</sup>	14.60 <sup>28</sup>	26.650 <sup>136</sup>	34.58 <sup>96</sup>
21.1	55.525 <sup>141</sup>	14.15 <sup>186</sup>	26.783 <sup>97</sup>	76.60 <sup>104</sup>	46.221 <sup>88</sup>	14.32 <sup>14</sup>	26.514 <sup>102</sup>	33.62 <sup>94</sup>
31.1	55.384 <sup>83</sup>	12.29 <sup>192</sup>	26.686 <sup>61</sup>	75.56 <sup>131</sup>	46.133 <sup>51</sup>	14.18 <sup>2</sup>	26.412 <sup>61</sup>	32.68 <sup>89</sup>
Apr. 10.1	55.301 <sup>19</sup>	10.37 <sup>190</sup>	26.625 <sup>19</sup>	74.25 <sup>157</sup>	46.082 <sup>9</sup>	14.20 <sup>21</sup>	26.351 <sup>14</sup>	31.79 <sup>77</sup>
20.0	55.282 <sup>49</sup>	8.47 <sup>179</sup>	26.606 <sup>25</sup>	72.68 <sup>179</sup>	46.073 <sup>37</sup>	14.41 <sup>42</sup>	26.337 <sup>37</sup>	31.02 <sup>61</sup>
30.0	55.331 <sup>117</sup>	6.68 <sup>161</sup>	26.631 <sup>71</sup>	70.89 <sup>199</sup>	46.110 <sup>83</sup>	14.83 <sup>63</sup>	26.374 <sup>88</sup>	30.41 <sup>40</sup>
Mai 10.0	55.448 <sup>182</sup>	5.07 <sup>137</sup>	26.702 <sup>116</sup>	68.90 <sup>215</sup>	46.193 <sup>129</sup>	15.46 <sup>85</sup>	26.462 <sup>138</sup>	30.01 <sup>18</sup>
20.0	55.630 <sup>244</sup>	3.70 <sup>109</sup>	26.818 <sup>160</sup>	66.75 <sup>227</sup>	46.322 <sup>172</sup>	16.31 <sup>104</sup>	26.600 <sup>186</sup>	29.83 <sup>6</sup>
29.9	55.874 <sup>296</sup>	2.61 <sup>75</sup>	26.978 <sup>198</sup>	64.48 <sup>233</sup>	46.494 <sup>210</sup>	17.35 <sup>124</sup>	26.786 <sup>227</sup>	29.89 <sup>33</sup>
Juni 8.9	56.170 <sup>343</sup>	1.86 <sup>40</sup>	27.176 <sup>232</sup>	62.15 <sup>235</sup>	46.704 <sup>242</sup>	18.59 <sup>139</sup>	27.013 <sup>264</sup>	30.22 <sup>57</sup>
18.9	56.513 <sup>378</sup>	1.46 <sup>4</sup>	27.408 <sup>261</sup>	59.80 <sup>229</sup>	46.946 <sup>269</sup>	19.98 <sup>151</sup>	27.277 <sup>292</sup>	30.79 <sup>81</sup>
28.8	56.891 <sup>404</sup>	1.42 <sup>32</sup>	27.669 <sup>280</sup>	57.51 <sup>218</sup>	47.215 <sup>287</sup>	21.49 <sup>160</sup>	27.569 <sup>312</sup>	31.60 <sup>102</sup>
Juli 8.8	57.295 <sup>419</sup>	1.74 <sup>68</sup>	27.949 <sup>294</sup>	55.33 <sup>201</sup>	47.502 <sup>299</sup>	23.09 <sup>163</sup>	27.881 <sup>325</sup>	32.62 <sup>120</sup>
18.8	57.714 <sup>424</sup>	2.42 <sup>101</sup>	28.243 <sup>299</sup>	53.32 <sup>177</sup>	47.801 <sup>303</sup>	24.72 <sup>162</sup>	28.206 <sup>329</sup>	33.82 <sup>136</sup>
28.8	58.138 <sup>420</sup>	3.43 <sup>131</sup>	28.542 <sup>298</sup>	51.55 <sup>150</sup>	48.104 <sup>299</sup>	26.34 <sup>156</sup>	28.535 <sup>327</sup>	35.18 <sup>146</sup>
Aug. 7.7	58.558 <sup>408</sup>	4.74 <sup>158</sup>	28.840 <sup>290</sup>	50.05 <sup>117</sup>	48.403 <sup>291</sup>	27.90 <sup>146</sup>	28.862 <sup>317</sup>	36.64 <sup>154</sup>
17.7	58.966 <sup>388</sup>	6.32 <sup>181</sup>	29.130 <sup>274</sup>	48.88 <sup>81</sup>	48.694 <sup>275</sup>	29.36 <sup>133</sup>	29.179 <sup>302</sup>	38.18 <sup>156</sup>
27.7	59.354 <sup>362</sup>	8.13 <sup>201</sup>	29.404 <sup>256</sup>	48.07 <sup>44</sup>	48.969 <sup>256</sup>	30.69 <sup>115</sup>	29.481 <sup>283</sup>	39.74 <sup>156</sup>
Sept. 6.7	59.716 <sup>331</sup>	10.14 <sup>216</sup>	29.660 <sup>232</sup>	47.63 <sup>5</sup>	49.225 <sup>234</sup>	31.84 <sup>96</sup>	29.764 <sup>258</sup>	41.30 <sup>152</sup>
16.6	60.047 <sup>296</sup>	12.30 <sup>226</sup>	29.892 <sup>205</sup>	47.58 <sup>33</sup>	49.459 <sup>208</sup>	32.80 <sup>75</sup>	30.022 <sup>232</sup>	42.82 <sup>145</sup>
26.6	60.343 <sup>257</sup>	14.56 <sup>232</sup>	30.097 <sup>176</sup>	47.91 <sup>67</sup>	49.667 <sup>181</sup>	33.55 <sup>54</sup>	30.254 <sup>204</sup>	44.27 <sup>136</sup>
Okt. 6.6	60.600 <sup>217</sup>	16.88 <sup>235</sup>	30.273 <sup>145</sup>	48.58 <sup>98</sup>	49.848 <sup>152</sup>	34.09 <sup>33</sup>	30.458 <sup>173</sup>	45.63 <sup>127</sup>
16.5	60.817 <sup>173</sup>	19.23 <sup>234</sup>	30.418 <sup>113</sup>	49.56 <sup>124</sup>	50.000 <sup>124</sup>	34.42 <sup>15</sup>	30.631 <sup>143</sup>	46.90 <sup>114</sup>
26.5	60.990 <sup>128</sup>	21.57 <sup>227</sup>	30.531 <sup>82</sup>	50.80 <sup>144</sup>	50.124 <sup>93</sup>	34.57 <sup>3</sup>	30.774 <sup>110</sup>	48.04 <sup>101</sup>
Nov. 5.5	61.118 <sup>81</sup>	23.84 <sup>216</sup>	30.613 <sup>50</sup>	52.24 <sup>157</sup>	50.217 <sup>65</sup>	34.54 <sup>17</sup>	30.884 <sup>77</sup>	49.05 <sup>89</sup>
15.5	61.199 <sup>32</sup>	26.00 <sup>201</sup>	30.663 <sup>19</sup>	53.81 <sup>163</sup>	50.282 <sup>33</sup>	34.37 <sup>29</sup>	30.961 <sup>43</sup>	49.94 <sup>74</sup>
25.4	61.231 <sup>19</sup>	28.01 <sup>180</sup>	30.682 <sup>13</sup>	55.44 <sup>161</sup>	50.315 <sup>3</sup>	34.08 <sup>38</sup>	31.004 <sup>8</sup>	50.68 <sup>60</sup>
Dez. 5.4	61.212 <sup>64</sup>	29.81 <sup>156</sup>	30.669 <sup>42</sup>	57.05 <sup>154</sup>	50.318 <sup>27</sup>	33.70 <sup>46</sup>	31.012 <sup>27</sup>	51.28 <sup>44</sup>
15.4	61.148 <sup>114</sup>	31.37 <sup>126</sup>	30.627 <sup>73</sup>	58.59 <sup>142</sup>	50.291 <sup>57</sup>	33.24 <sup>51</sup>	30.985 <sup>61</sup>	51.72 <sup>27</sup>
25.4	61.034 <sup>159</sup>	32.63 <sup>93</sup>	30.554 <sup>100</sup>	60.01 <sup>123</sup>	50.234 <sup>85</sup>	32.73 <sup>54</sup>	30.924 <sup>95</sup>	51.99 <sup>10</sup>
35.3	60.875	33.56	30.454	61.24	50.149	32.19	30.829	52.09
Mittl. Ort	55.830	13.51	27.426	62.64	46.598	23.40	26.786	38.57
sec $\delta$ , tg $\delta$	1.521	+1.146	1.031	-0.253	1.015	+0.173	1.122	+0.508



# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	101) $\beta$ Fornacis		102) $\tau^2$ Eridani		103) $\tau$ Persei		104) $\eta$ Eridani	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	2 <sup>h</sup> 45 <sup>m</sup>	-32° 43'	2 <sup>h</sup> 47 <sup>m</sup>	-21° 18'	2 <sup>h</sup> 48 <sup>m</sup>	+52° 26'	2 <sup>h</sup> 52 <sup>m</sup>	-9° 12'
Jan. 0.3	52.538 <sup>154</sup>	60.49 <sup>140</sup>	33.257 <sup>124</sup>	89.54 <sup>129</sup>	48.958 <sup>197</sup>	60.15 <sup>88</sup>	40.496 <sup>105</sup>	25.01 <sup>108</sup>
10.3	52.384 <sup>178</sup>	61.89 <sup>100</sup>	33.133 <sup>148</sup>	90.83 <sup>98</sup>	48.761 <sup>237</sup>	61.03 <sup>48</sup>	40.391 <sup>128</sup>	26.09 <sup>91</sup>
20.3	52.206 <sup>194</sup>	62.89 <sup>59</sup>	32.985 <sup>165</sup>	91.81 <sup>67</sup>	48.524 <sup>268</sup>	61.51 <sup>6</sup>	40.263 <sup>147</sup>	27.00 <sup>69</sup>
30.3	52.012 <sup>204</sup>	63.48 <sup>15</sup>	32.820 <sup>175</sup>	92.48 <sup>32</sup>	48.256 <sup>286</sup>	61.57 <sup>36</sup>	40.116 <sup>160</sup>	27.69 <sup>47</sup>
Feb. 9.2	51.808 <sup>207</sup>	63.63 <sup>28</sup>	32.645 <sup>180</sup>	92.80 <sup>2</sup>	47.970 <sup>292</sup>	61.21 <sup>77</sup>	39.956 <sup>165</sup>	28.16 <sup>23</sup>
19.2	51.601 <sup>201</sup>	63.35 <sup>71</sup>	32.465 <sup>175</sup>	92.78 <sup>37</sup>	47.678 <sup>282</sup>	60.44 <sup>115</sup>	39.791 <sup>162</sup>	28.39 <sup>1</sup>
März 1.2	51.400 <sup>185</sup>	62.64 <sup>111</sup>	32.290 <sup>162</sup>	92.41 <sup>71</sup>	47.396 <sup>257</sup>	59.29 <sup>148</sup>	39.629 <sup>151</sup>	28.38 <sup>27</sup>
11.2	51.215 <sup>161</sup>	61.53 <sup>149</sup>	32.128 <sup>140</sup>	91.70 <sup>104</sup>	47.139 <sup>219</sup>	57.81 <sup>173</sup>	39.478 <sup>131</sup>	28.11 <sup>51</sup>
21.1	51.054 <sup>129</sup>	60.04 <sup>185</sup>	31.988 <sup>111</sup>	90.66 <sup>135</sup>	46.920 <sup>168</sup>	56.08 <sup>191</sup>	39.347 <sup>102</sup>	27.60 <sup>77</sup>
31.1	50.925 <sup>90</sup>	58.19 <sup>217</sup>	31.877 <sup>75</sup>	89.31 <sup>164</sup>	46.752 <sup>107</sup>	54.17 <sup>202</sup>	39.245 <sup>69</sup>	26.83 <sup>102</sup>
Apr. 10.1	50.835 <sup>45</sup>	56.02 <sup>244</sup>	31.802 <sup>32</sup>	87.67 <sup>191</sup>	46.645 <sup>39</sup>	52.15 <sup>203</sup>	39.176 <sup>27</sup>	25.81 <sup>126</sup>
20.0	50.790 <sup>3</sup>	53.58 <sup>267</sup>	31.770 <sup>12</sup>	85.76 <sup>214</sup>	46.606 <sup>33</sup>	50.12 <sup>195</sup>	39.149 <sup>16</sup>	24.55 <sup>149</sup>
30.0	50.793 <sup>54</sup>	50.91 <sup>284</sup>	31.782 <sup>59</sup>	83.62 <sup>233</sup>	46.639 <sup>106</sup>	48.17 <sup>181</sup>	39.165 <sup>61</sup>	23.06 <sup>170</sup>
Mai 10.0	50.847 <sup>105</sup>	48.07 <sup>296</sup>	31.841 <sup>107</sup>	81.29 <sup>248</sup>	46.745 <sup>178</sup>	46.36 <sup>158</sup>	39.226 <sup>107</sup>	21.36 <sup>187</sup>
20.0	50.952 <sup>154</sup>	45.11 <sup>300</sup>	31.948 <sup>151</sup>	78.81 <sup>257</sup>	46.923 <sup>244</sup>	44.78 <sup>132</sup>	39.333 <sup>150</sup>	19.49 <sup>202</sup>
29.9	51.106 <sup>198</sup>	42.11 <sup>298</sup>	32.099 <sup>193</sup>	76.24 <sup>261</sup>	47.167 <sup>302</sup>	43.46 <sup>99</sup>	39.483 <sup>189</sup>	17.47 <sup>211</sup>
Juni 8.9	51.304 <sup>239</sup>	39.13 <sup>288</sup>	32.292 <sup>228</sup>	73.63 <sup>258</sup>	47.469 <sup>353</sup>	42.47 <sup>64</sup>	39.672 <sup>224</sup>	15.36 <sup>215</sup>
18.9	51.543 <sup>272</sup>	36.25 <sup>272</sup>	32.520 <sup>259</sup>	71.05 <sup>248</sup>	47.822 <sup>394</sup>	41.83 <sup>27</sup>	39.896 <sup>252</sup>	13.21 <sup>215</sup>
28.9	51.815 <sup>297</sup>	33.53 <sup>247</sup>	32.779 <sup>281</sup>	68.57 <sup>232</sup>	48.216 <sup>423</sup>	41.56 <sup>10</sup>	40.148 <sup>274</sup>	11.06 <sup>207</sup>
Juli 8.8	52.112 <sup>316</sup>	31.06 <sup>216</sup>	33.060 <sup>297</sup>	66.25 <sup>210</sup>	48.639 <sup>442</sup>	41.66 <sup>47</sup>	40.422 <sup>288</sup>	8.99 <sup>196</sup>
18.8	52.428 <sup>326</sup>	28.90 <sup>179</sup>	33.357 <sup>305</sup>	64.15 <sup>181</sup>	49.081 <sup>451</sup>	42.13 <sup>82</sup>	40.710 <sup>295</sup>	7.03 <sup>177</sup>
28.8	52.754 <sup>327</sup>	27.11 <sup>137</sup>	33.662 <sup>305</sup>	62.34 <sup>147</sup>	49.532 <sup>449</sup>	42.95 <sup>115</sup>	41.005 <sup>295</sup>	5.26 <sup>153</sup>
Aug. 7.7	53.081 <sup>321</sup>	25.74 <sup>90</sup>	33.967 <sup>298</sup>	60.87 <sup>109</sup>	49.981 <sup>439</sup>	44.10 <sup>145</sup>	41.300 <sup>288</sup>	3.73 <sup>126</sup>
17.7	53.402 <sup>306</sup>	24.84 <sup>41</sup>	34.265 <sup>285</sup>	59.78 <sup>68</sup>	50.420 <sup>420</sup>	45.55 <sup>172</sup>	41.588 <sup>276</sup>	2.47 <sup>95</sup>
27.7	53.708 <sup>287</sup>	24.43 <sup>9</sup>	34.550 <sup>266</sup>	59.10 <sup>24</sup>	50.840 <sup>395</sup>	47.27 <sup>195</sup>	41.864 <sup>258</sup>	1.52 <sup>60</sup>
Sept. 6.7	53.995 <sup>260</sup>	24.52 <sup>60</sup>	34.816 <sup>242</sup>	58.86 <sup>20</sup>	51.235 <sup>363</sup>	49.22 <sup>213</sup>	42.122 <sup>237</sup>	0.92 <sup>25</sup>
16.6	54.255 <sup>229</sup>	25.12 <sup>106</sup>	35.058 <sup>215</sup>	59.06 <sup>61</sup>	51.598 <sup>328</sup>	51.35 <sup>227</sup>	42.359 <sup>212</sup>	0.67 <sup>10</sup>
26.6	54.484 <sup>196</sup>	26.18 <sup>150</sup>	35.273 <sup>186</sup>	59.67 <sup>100</sup>	51.926 <sup>288</sup>	53.62 <sup>238</sup>	42.571 <sup>185</sup>	0.77 <sup>43</sup>
Okt. 6.6	54.680 <sup>159</sup>	27.68 <sup>186</sup>	35.459 <sup>153</sup>	60.67 <sup>134</sup>	52.214 <sup>245</sup>	56.00 <sup>244</sup>	42.756 <sup>157</sup>	1.20 <sup>72</sup>
16.6	54.839 <sup>120</sup>	29.54 <sup>214</sup>	35.612 <sup>120</sup>	62.01 <sup>161</sup>	52.459 <sup>199</sup>	58.44 <sup>245</sup>	42.913 <sup>127</sup>	1.92 <sup>99</sup>
26.5	54.959 <sup>80</sup>	31.68 <sup>235</sup>	35.732 <sup>87</sup>	63.62 <sup>183</sup>	52.658 <sup>151</sup>	60.89 <sup>242</sup>	43.040 <sup>96</sup>	2.91 <sup>118</sup>
Nov. 5.5	55.039 <sup>42</sup>	34.03 <sup>245</sup>	35.819 <sup>52</sup>	65.45 <sup>195</sup>	52.809 <sup>99</sup>	63.31 <sup>233</sup>	43.136 <sup>65</sup>	4.09 <sup>133</sup>
15.5	55.081 <sup>3</sup>	36.48 <sup>245</sup>	35.871 <sup>18</sup>	67.40 <sup>199</sup>	52.908 <sup>46</sup>	65.64 <sup>221</sup>	43.201 <sup>35</sup>	5.42 <sup>141</sup>
25.4	55.084 <sup>35</sup>	38.93 <sup>237</sup>	35.889 <sup>14</sup>	69.39 <sup>195</sup>	52.954 <sup>9</sup>	67.85 <sup>202</sup>	43.236 <sup>2</sup>	6.83 <sup>142</sup>
Dez. 5.4	55.049 <sup>72</sup>	41.30 <sup>218</sup>	35.875 <sup>48</sup>	71.34 <sup>185</sup>	52.945 <sup>64</sup>	69.87 <sup>178</sup>	43.238 <sup>28</sup>	8.25 <sup>139</sup>
15.4	54.977 <sup>105</sup>	43.48 <sup>193</sup>	35.827 <sup>79</sup>	73.19 <sup>166</sup>	52.881 <sup>118</sup>	71.65 <sup>148</sup>	43.210 <sup>59</sup>	9.64 <sup>130</sup>
25.4	54.872 <sup>135</sup>	45.41 <sup>160</sup>	35.748 <sup>107</sup>	74.85 <sup>144</sup>	52.763 <sup>169</sup>	73.13 <sup>114</sup>	43.151 <sup>87</sup>	10.94 <sup>116</sup>
35.3	54.737	47.01	35.641	76.29	52.594	74.27	43.064	12.10
Mittl. Ort sec $\delta$ , tg $\delta$	52.044 1.189	43.19 -0.643	32.721 1.073	75.15 -0.390	47.212 1.641	54.45 +1.301	39.873 1.013	13.90 -0.162



Mittlere Zeit Greenw.	106) $\delta$ Eridani		105) 47 II. Cephei		107) $\alpha$ Ceti		108) $\gamma$ Persei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	2 <sup>h</sup> 55 <sup>m</sup>	-4° 36'	2 <sup>h</sup> 55 <sup>m</sup>	+79° 6'	2 <sup>h</sup> 58 <sup>m</sup>	+3° 47'	2 <sup>h</sup> 59 <sup>m</sup>	+53° 12'
Jan. 0.3	20.953 <sub>182</sub>	64.20 <sub>154</sub>	53.15 <sub>81</sub>	68.76 <sub>183</sub>	15.858 <sub>95</sub>	11.03 <sub>75</sub>	14.312 <sub>191</sub>	26.91 <sub>100</sub>
10.3	20.771 <sub>207</sub>	65.74 <sub>110</sub>	52.34 <sub>94</sub>	70.59 <sub>129</sub>	15.763 <sub>120</sub>	10.28 <sub>70</sub>	14.121 <sub>236</sub>	27.91 <sub>61</sub>
20.3	20.564 <sub>227</sub>	66.84 <sub>62</sub>	51.40 <sub>103</sub>	71.88 <sub>71</sub>	15.643 <sub>140</sub>	9.58 <sub>62</sub>	13.885 <sub>270</sub>	28.52 <sub>18</sub>
30.3	20.337 <sub>239</sub>	67.46 <sub>13</sub>	50.37 <sub>108</sub>	72.59 <sub>10</sub>	15.503 <sub>155</sub>	8.96 <sub>53</sub>	13.615 <sub>292</sub>	28.70 <sub>23</sub>
Feb. 9.2	20.098 <sub>243</sub>	67.59 <sub>35</sub>	49.29 <sub>108</sub>	72.69 <sub>50</sub>	15.348 <sub>161</sub>	8.43 <sub>43</sub>	13.323 <sub>300</sub>	28.47 <sub>66</sub>
19.2	19.855 <sub>236</sub>	67.24 <sub>83</sub>	48.21 <sub>105</sub>	72.19 <sub>108</sub>	15.187 <sub>161</sub>	8.00 <sub>31</sub>	13.023 <sub>293</sub>	27.81 <sub>104</sub>
März 1.2	19.619 <sub>221</sub>	66.41 <sub>128</sub>	47.16 <sub>95</sub>	71.11 <sub>161</sub>	15.026 <sub>150</sub>	7.69 <sub>17</sub>	12.730 <sub>271</sub>	26.77 <sub>139</sub>
11.2	19.398 <sub>195</sub>	65.13 <sub>169</sub>	46.21 <sub>82</sub>	69.50 <sub>207</sub>	14.876 <sub>130</sub>	7.52 <sub>2</sub>	12.459 <sub>235</sub>	25.38 <sub>166</sub>
21.1	19.203 <sub>161</sub>	63.44 <sub>208</sub>	45.39 <sub>67</sub>	67.43 <sub>243</sub>	14.746 <sub>102</sub>	7.50 <sub>15</sub>	12.224 <sub>184</sub>	23.72 <sub>187</sub>
31.1	19.042 <sub>119</sub>	61.36 <sub>242</sub>	44.72 <sub>47</sub>	65.00 <sub>270</sub>	14.644 <sub>67</sub>	7.65 <sub>34</sub>	12.040 <sub>124</sub>	21.85 <sub>199</sub>
Apr. 10.1	18.923 <sub>72</sub>	58.94 <sub>270</sub>	44.25 <sub>26</sub>	62.30 <sub>286</sub>	14.577 <sub>28</sub>	7.99 <sub>54</sub>	11.916 <sub>56</sub>	19.86 <sub>203</sub>
20.0	18.851 <sub>20</sub>	56.24 <sub>294</sub>	43.99 <sub>4</sub>	59.44 <sub>290</sub>	14.549 <sub>18</sub>	8.53 <sub>74</sub>	11.860 <sub>17</sub>	17.83 <sub>198</sub>
30.0	18.831 <sub>35</sub>	53.30 <sub>310</sub>	43.95 <sub>17</sub>	56.54 <sub>284</sub>	14.567 <sub>62</sub>	9.27 <sub>95</sub>	11.877 <sub>92</sub>	15.85 <sub>186</sub>
Mai 10.0	18.866 <sub>90</sub>	50.20 <sub>321</sub>	44.12 <sub>39</sub>	53.70 <sub>269</sub>	14.629 <sub>109</sub>	10.22 <sub>115</sub>	11.969 <sub>164</sub>	13.99 <sub>166</sub>
20.0	18.956 <sub>144</sub>	46.99 <sub>324</sub>	44.51 <sub>60</sub>	51.01 <sub>244</sub>	14.738 <sub>151</sub>	11.37 <sub>133</sub>	12.133 <sub>233</sub>	12.33 <sub>141</sub>
29.9	19.100 <sub>194</sub>	43.75 <sub>319</sub>	45.11 <sub>77</sub>	48.57 <sub>211</sub>	14.889 <sub>191</sub>	12.70 <sub>149</sub>	12.366 <sub>294</sub>	10.92 <sub>110</sub>
Juni 8.9	19.294 <sub>239</sub>	40.56 <sub>307</sub>	45.88 <sub>93</sub>	46.46 <sub>174</sub>	15.080 <sub>225</sub>	14.19 <sub>160</sub>	12.660 <sub>348</sub>	9.82 <sub>77</sub>
18.9	19.533 <sub>278</sub>	37.49 <sub>286</sub>	46.81 <sub>106</sub>	44.72 <sub>130</sub>	15.305 <sub>254</sub>	15.79 <sub>169</sub>	13.008 <sub>390</sub>	9.05 <sub>41</sub>
28.9	19.811 <sub>309</sub>	34.63 <sub>259</sub>	47.87 <sub>116</sub>	43.42 <sub>84</sub>	15.559 <sub>274</sub>	17.48 <sub>172</sub>	13.398 <sub>423</sub>	8.64 <sub>4</sub>
Juli 8.8	20.120 <sub>332</sub>	32.04 <sub>223</sub>	49.03 <sub>124</sub>	42.58 <sub>36</sub>	15.833 <sub>288</sub>	19.20 <sub>171</sub>	13.821 <sub>445</sub>	8.60 <sub>33</sub>
18.8	20.452 <sub>345</sub>	29.81 <sub>182</sub>	50.27 <sub>128</sub>	42.22 <sub>13</sub>	16.121 <sub>296</sub>	20.91 <sub>164</sub>	14.266 <sub>457</sub>	8.93 <sub>68</sub>
28.8	20.797 <sub>351</sub>	27.99 <sub>135</sub>	51.55 <sub>130</sub>	42.35 <sub>61</sub>	16.417 <sub>295</sub>	22.55 <sub>153</sub>	14.723 <sub>457</sub>	9.61 <sub>101</sub>
Aug. 7.7	21.148 <sub>347</sub>	26.64 <sub>84</sub>	52.85 <sub>128</sub>	42.96 <sub>108</sub>	16.712 <sub>289</sub>	24.08 <sub>138</sub>	15.180 <sub>450</sub>	10.62 <sub>133</sub>
17.7	21.495 <sub>335</sub>	25.80 <sub>31</sub>	54.13 <sub>124</sub>	44.04 <sub>154</sub>	17.001 <sub>277</sub>	25.46 <sub>118</sub>	15.630 <sub>434</sub>	11.95 <sub>159</sub>
27.7	21.830 <sub>315</sub>	25.49 <sub>25</sub>	55.37 <sub>118</sub>	45.58 <sub>194</sub>	17.278 <sub>261</sub>	26.64 <sub>95</sub>	16.064 <sub>410</sub>	13.54 <sub>184</sub>
Sept. 6.7	22.145 <sub>287</sub>	25.74 <sub>78</sub>	56.55 <sub>110</sub>	47.52 <sub>232</sub>	17.539 <sub>240</sub>	27.59 <sub>71</sub>	16.474 <sub>380</sub>	15.38 <sub>203</sub>
16.6	22.432 <sub>256</sub>	26.52 <sub>130</sub>	57.65 <sub>99</sub>	49.84 <sub>265</sub>	17.779 <sub>217</sub>	28.30 <sub>45</sub>	16.854 <sub>347</sub>	17.41 <sub>220</sub>
26.6	22.688 <sub>218</sub>	27.82 <sub>176</sub>	58.64 <sub>87</sub>	52.49 <sub>294</sub>	17.996 <sub>192</sub>	28.75 <sub>21</sub>	17.201 <sub>307</sub>	19.61 <sub>232</sub>
Okt. 6.6	22.906 <sub>178</sub>	29.58 <sub>214</sub>	59.51 <sub>73</sub>	55.43 <sub>315</sub>	18.188 <sub>164</sub>	28.96 <sub>3</sub>	17.508 <sub>266</sub>	21.93 <sub>239</sub>
16.6	23.084 <sub>134</sub>	31.72 <sub>246</sub>	60.24 <sub>57</sub>	58.58 <sub>332</sub>	18.352 <sub>137</sub>	28.93 <sub>25</sub>	17.774 <sub>219</sub>	24.32 <sub>243</sub>
26.5	23.218 <sub>90</sub>	34.18 <sub>266</sub>	60.81 <sub>40</sub>	61.90 <sub>340</sub>	18.489 <sub>108</sub>	28.68 <sub>43</sub>	17.993 <sub>170</sub>	26.75 <sub>242</sub>
Nov. 5.5	23.308 <sub>44</sub>	36.84 <sub>276</sub>	61.21 <sub>21</sub>	65.30 <sub>342</sub>	18.597 <sub>78</sub>	28.25 <sub>57</sub>	18.163 <sub>119</sub>	29.17 <sub>236</sub>
15.5	23.352 <sub>0</sub>	39.60 <sub>276</sub>	61.42 <sub>3</sub>	68.72 <sub>334</sub>	18.675 <sub>48</sub>	27.68 <sub>68</sub>	18.282 <sub>63</sub>	31.53 <sub>224</sub>
25.4	23.352 <sub>44</sub>	42.36 <sub>266</sub>	61.45 <sub>17</sub>	72.06 <sub>318</sub>	18.723 <sub>16</sub>	27.00 <sub>75</sub>	18.345 <sub>7</sub>	33.77 <sub>208</sub>
Dez. 5.4	23.308 <sub>86</sub>	45.02 <sub>244</sub>	61.28 <sub>37</sub>	75.24 <sub>293</sub>	18.739 <sub>15</sub>	26.25 <sub>78</sub>	18.352 <sub>51</sub>	35.85 <sub>186</sub>
15.4	23.222 <sub>125</sub>	47.46 <sub>214</sub>	60.91 <sub>55</sub>	78.17 <sub>259</sub>	18.724 <sub>47</sub>	25.47 <sub>78</sub>	18.301 <sub>107</sub>	37.71 <sub>158</sub>
25.4	23.097 <sub>160</sub>	49.60 <sub>178</sub>	60.36 <sub>72</sub>	80.76 <sub>216</sub>	18.677 <sub>76</sub>	24.69 <sub>76</sub>	18.194 <sub>161</sub>	39.29 <sub>125</sub>
35.3	22.937	51.38	59.64	82.92	18.601	23.93	18.033	40.54
Mittl. Ort sec $\delta$ , tg $\delta$	20.386 1.317	45.14 -0.857	46.75 5.296	59.83 +5.201	15.113 1.002	18.53 +0.066	12.472 1.670	21.79 +1.337

Mittlere Zeit Greenw.	109) ρ Persei		110) μ Horologii		111) β Persei		114) δ Arietis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	3 <sup>h</sup> 0 <sup>m</sup>	+38° 32'	3 <sup>h</sup> 1 <sup>m</sup>	-60° 1'	3 <sup>h</sup> 3 <sup>m</sup>	+40° 39'	3 <sup>h</sup> 7 <sup>m</sup>	+19° 26'
Jan. 0.4	15.417 <sub>128</sub>	36.60 <sub>46</sub>	48.51 <sub>33</sub>	92.09 <sub>161</sub>	10.461 <sub>133</sub>	38.50 <sub>56</sub>	14.280 <sub>93</sub>	7.90 <sub>22</sub>
10.3	15.289 <sub>162</sub>	37.06 <sub>18</sub>	48.18 <sub>37</sub>	93.70 <sub>106</sub>	10.328 <sub>168</sub>	39.06 <sub>27</sub>	14.187 <sub>122</sub>	7.68 <sub>31</sub>
20.3	15.127 <sub>190</sub>	37.24 <sub>10</sub>	47.81 <sub>40</sub>	94.76 <sub>49</sub>	10.160 <sub>197</sub>	39.33 <sub>3</sub>	14.065 <sub>147</sub>	7.37 <sub>40</sub>
30.3	14.937 <sub>209</sub>	37.14 <sub>39</sub>	47.41 <sub>41</sub>	95.25 <sub>8</sub>	9.963 <sub>217</sub>	39.30 <sub>34</sub>	13.918 <sub>164</sub>	6.97 <sub>49</sub>
Feb. 9.2	14.728 <sub>216</sub>	36.75 <sub>67</sub>	47.00 <sub>41</sub>	95.17 <sub>65</sub>	9.746 <sub>226</sub>	38.96 <sub>64</sub>	13.754 <sub>173</sub>	6.48 <sub>55</sub>
19.2	14.512 <sub>214</sub>	36.08 <sub>91</sub>	46.59 <sub>40</sub>	94.52 <sub>120</sub>	9.520 <sub>223</sub>	38.32 <sub>91</sub>	13.581 <sub>173</sub>	5.93 <sub>59</sub>
März 1.2	14.298 <sub>198</sub>	35.17 <sub>111</sub>	46.19 <sub>37</sub>	93.32 <sub>170</sub>	9.297 <sub>208</sub>	37.41 <sub>113</sub>	13.408 <sub>163</sub>	5.34 <sub>62</sub>
11.2	14.100 <sub>172</sub>	34.06 <sub>128</sub>	45.82 <sub>34</sub>	91.62 <sub>216</sub>	9.089 <sub>180</sub>	36.28 <sub>132</sub>	13.245 <sub>143</sub>	4.72 <sub>60</sub>
21.1	13.928 <sub>134</sub>	32.78 <sub>136</sub>	45.48 <sub>29</sub>	89.46 <sub>257</sub>	8.909 <sub>143</sub>	34.96 <sub>142</sub>	13.102 <sub>113</sub>	4.12 <sub>55</sub>
31.1	13.794 <sub>89</sub>	31.42 <sub>140</sub>	45.19 <sub>22</sub>	86.89 <sub>292</sub>	8.766 <sub>95</sub>	33.54 <sub>148</sub>	12.989 <sub>77</sub>	3.57 <sub>46</sub>
Apr. 10.1	13.705 <sub>35</sub>	30.02 <sub>136</sub>	44.97 <sub>16</sub>	83.97 <sub>320</sub>	8.671 <sub>41</sub>	32.06 <sub>145</sub>	12.912 <sub>33</sub>	3.11 <sub>34</sub>
20.1	13.670 <sub>21</sub>	28.66 <sub>126</sub>	44.81 <sub>9</sub>	80.77 <sub>312</sub>	8.630 <sub>16</sub>	30.61 <sub>137</sub>	12.879 <sub>13</sub>	2.77 <sub>18</sub>
30.1	13.691 <sub>80</sub>	27.40 <sub>110</sub>	44.72 <sub>1</sub>	77.35 <sub>355</sub>	8.646 <sub>78</sub>	29.24 <sub>121</sub>	12.892 <sub>62</sub>	2.59 <sub>0</sub>
Mai 10.0	13.771 <sub>136</sub>	26.30 <sub>89</sub>	44.71 <sub>6</sub>	73.80 <sub>361</sub>	8.724 <sub>136</sub>	28.03 <sub>102</sub>	12.954 <sub>111</sub>	2.59 <sub>21</sub>
20.0	13.907 <sub>191</sub>	25.41 <sub>65</sub>	44.77 <sub>15</sub>	70.19 <sub>358</sub>	8.860 <sub>191</sub>	27.01 <sub>77</sub>	13.065 <sub>157</sub>	2.80 <sub>42</sub>
29.9	14.098 <sub>239</sub>	24.76 <sub>37</sub>	44.92 <sub>22</sub>	66.61 <sub>348</sub>	9.051 <sub>242</sub>	26.24 <sub>50</sub>	13.222 <sub>198</sub>	3.22 <sub>63</sub>
Juni 8.9	14.337 <sub>282</sub>	24.39 <sub>9</sub>	45.14 <sub>29</sub>	63.13 <sub>328</sub>	9.293 <sub>285</sub>	25.74 <sub>21</sub>	13.420 <sub>235</sub>	3.85 <sub>82</sub>
18.9	14.619 <sub>314</sub>	24.30 <sub>21</sub>	45.43 <sub>35</sub>	59.85 <sub>300</sub>	9.578 <sub>321</sub>	25.53 <sub>9</sub>	13.655 <sub>265</sub>	4.67 <sub>101</sub>
28.9	14.933 <sub>341</sub>	24.51 <sub>49</sub>	45.78 <sub>40</sub>	56.85 <sub>264</sub>	9.899 <sub>347</sub>	25.62 <sub>39</sub>	13.920 <sub>288</sub>	5.68 <sub>116</sub>
Juli 8.8	15.274 <sub>358</sub>	25.00 <sub>76</sub>	46.18 <sub>44</sub>	54.21 <sub>221</sub>	10.246 <sub>365</sub>	26.01 <sub>66</sub>	14.208 <sub>303</sub>	6.84 <sub>127</sub>
18.8	15.632 <sub>365</sub>	25.76 <sub>100</sub>	46.62 <sub>47</sub>	52.00 <sub>173</sub>	10.611 <sub>375</sub>	26.67 <sub>94</sub>	14.511 <sub>311</sub>	8.11 <sub>135</sub>
28.8	15.997 <sub>366</sub>	26.76 <sub>121</sub>	47.09 <sub>49</sub>	50.27 <sub>116</sub>	10.986 <sub>375</sub>	27.61 <sub>115</sub>	14.822 <sub>313</sub>	9.46 <sub>140</sub>
Aug. 7.8	16.363 <sub>359</sub>	27.97 <sub>140</sub>	47.58 <sub>48</sub>	49.11 <sub>59</sub>	11.361 <sub>369</sub>	28.76 <sub>136</sub>	15.135 <sub>306</sub>	10.86 <sub>139</sub>
17.7	16.722 <sub>345</sub>	29.37 <sub>154</sub>	48.06 <sub>48</sub>	48.52 <sub>2</sub>	11.730 <sub>355</sub>	30.12 <sub>153</sub>	15.441 <sub>296</sub>	12.25 <sub>135</sub>
27.7	17.067 <sub>325</sub>	30.91 <sub>166</sub>	48.54 <sub>45</sub>	48.54 <sub>64</sub>	12.085 <sub>335</sub>	31.65 <sub>166</sub>	15.737 <sub>280</sub>	13.60 <sub>127</sub>
Sept. 6.7	17.392 <sub>302</sub>	32.57 <sub>173</sub>	48.99 <sub>41</sub>	49.18 <sub>123</sub>	12.420 <sub>313</sub>	33.31 <sub>175</sub>	16.017 <sub>260</sub>	14.87 <sub>118</sub>
16.6	17.694 <sub>276</sub>	34.30 <sub>177</sub>	49.40 <sub>36</sub>	50.41 <sub>178</sub>	12.733 <sub>285</sub>	35.06 <sub>182</sub>	16.277 <sub>238</sub>	16.05 <sub>106</sub>
26.6	17.970 <sub>244</sub>	36.07 <sub>178</sub>	49.76 <sub>31</sub>	52.19 <sub>226</sub>	13.018 <sub>254</sub>	36.88 <sub>184</sub>	16.515 <sub>212</sub>	17.11 <sub>92</sub>
Okt. 6.6	18.214 <sub>212</sub>	37.85 <sub>176</sub>	50.07 <sub>25</sub>	54.45 <sub>268</sub>	13.272 <sub>222</sub>	38.72 <sub>185</sub>	16.727 <sub>186</sub>	18.03 <sub>78</sub>
16.6	18.426 <sub>179</sub>	39.61 <sub>171</sub>	50.32 <sub>17</sub>	57.13 <sub>298</sub>	13.494 <sub>186</sub>	40.57 <sub>181</sub>	16.913 <sub>158</sub>	18.81 <sub>64</sub>
26.5	18.605 <sub>141</sub>	41.32 <sub>165</sub>	50.49 <sub>11</sub>	60.11 <sub>317</sub>	13.680 <sub>148</sub>	42.38 <sub>176</sub>	17.071 <sub>127</sub>	19.45 <sub>50</sub>
Nov. 5.5	18.746 <sub>104</sub>	42.97 <sub>156</sub>	50.60 <sub>2</sub>	63.28 <sub>325</sub>	13.828 <sub>109</sub>	44.14 <sub>167</sub>	17.198 <sub>97</sub>	19.95 <sub>38</sub>
15.5	18.850 <sub>63</sub>	44.53 <sub>143</sub>	50.62 <sub>5</sub>	66.53 <sub>319</sub>	13.937 <sub>67</sub>	45.81 <sub>156</sub>	17.295 <sub>64</sub>	20.33 <sub>26</sub>
25.5	18.913 <sub>21</sub>	45.96 <sub>127</sub>	50.57 <sub>12</sub>	69.72 <sub>303</sub>	14.004 <sub>24</sub>	47.37 <sub>140</sub>	17.359 <sub>31</sub>	20.59 <sub>15</sub>
Dez. 5.4	18.934 <sub>21</sub>	47.23 <sub>110</sub>	50.45 <sub>19</sub>	72.75 <sub>273</sub>	14.028 <sub>20</sub>	48.77 <sub>123</sub>	17.390 <sub>4</sub>	20.74 <sub>6</sub>
15.4	18.913 <sub>63</sub>	48.33 <sub>89</sub>	50.26 <sub>25</sub>	75.48 <sub>236</sub>	14.008 <sub>65</sub>	50.00 <sub>100</sub>	17.386 <sub>39</sub>	20.80 <sub>4</sub>
25.4	18.850 <sub>105</sub>	49.22 <sub>64</sub>	50.01 <sub>30</sub>	77.84 <sub>190</sub>	13.943 <sub>107</sub>	51.00 <sub>76</sub>	17.347 <sub>72</sub>	20.76 <sub>14</sub>
35.3	18.745	49.86	49.71	79.74	13.836	51.76	17.275	20.62
Mittl. Ort sec δ, tg δ	14.123 1.279	34.72 +0.797	47.71 2.002	69.90 -1.735	9.094 1.318	36.31 +0.859	13.326 1.060	11.33 +0.353

Mittlere Zeit Greenw.	117) 12 Eridani		115) 48 H. Cephei		120) $\alpha$ Persei		121) $\sigma$ Tauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	3 <sup>h</sup> 8 <sup>m</sup>	-29° 17'	3 <sup>h</sup> 10 <sup>m</sup>	+77° 26'	3 <sup>h</sup> 18 <sup>m</sup>	+49° 35'	3 <sup>h</sup> 20 <sup>m</sup>	+8° 45'
1923								
Jan. 0.4	48.582 <sup>133</sup>	40.27 <sup>153</sup>	35.02 <sup>65</sup>	82.44 <sup>194</sup>	50.710 <sup>152</sup>	21.11 <sup>102</sup>	40.909 <sup>83</sup>	24.87 <sup>60</sup>
10.3	48.449 <sup>160</sup>	41.80 <sup>118</sup>	34.37 <sup>77</sup>	84.38 <sup>142</sup>	50.558 <sup>198</sup>	22.13 <sup>67</sup>	40.826 <sup>111</sup>	24.27 <sup>58</sup>
20.3	48.289 <sup>182</sup>	42.98 <sup>78</sup>	33.60 <sup>87</sup>	85.80 <sup>87</sup>	50.360 <sup>235</sup>	22.80 <sup>31</sup>	40.715 <sup>137</sup>	23.69 <sup>55</sup>
30.3	48.107 <sup>197</sup>	43.76 <sup>38</sup>	32.73 <sup>91</sup>	86.67 <sup>28</sup>	50.125 <sup>262</sup>	23.11 <sup>8</sup>	40.578 <sup>156</sup>	23.14 <sup>51</sup>
Feb. 9.3	47.910 <sup>203</sup>	44.14 <sup>4</sup>	31.82 <sup>94</sup>	86.95 <sup>32</sup>	49.863 <sup>275</sup>	23.03 <sup>45</sup>	40.422 <sup>166</sup>	22.63 <sup>45</sup>
19.2	47.707 <sup>203</sup>	44.10 <sup>44</sup>	30.88 <sup>92</sup>	86.63 <sup>90</sup>	49.588 <sup>275</sup>	22.58 <sup>82</sup>	40.256 <sup>169</sup>	22.18 <sup>39</sup>
März 1.2	47.504 <sup>191</sup>	43.66 <sup>85</sup>	29.96 <sup>85</sup>	85.73 <sup>143</sup>	49.313 <sup>260</sup>	21.76 <sup>115</sup>	40.087 <sup>162</sup>	21.79 <sup>30</sup>
11.2	47.313 <sup>171</sup>	42.81 <sup>133</sup>	29.11 <sup>75</sup>	84.30 <sup>190</sup>	49.053 <sup>232</sup>	20.61 <sup>141</sup>	39.925 <sup>145</sup>	21.49 <sup>20</sup>
21.1	47.142 <sup>143</sup>	41.58 <sup>159</sup>	28.36 <sup>62</sup>	82.40 <sup>229</sup>	48.821 <sup>189</sup>	19.20 <sup>162</sup>	39.780 <sup>119</sup>	21.29 <sup>7</sup>
31.1	46.999 <sup>107</sup>	39.99 <sup>192</sup>	27.74 <sup>45</sup>	80.11 <sup>257</sup>	48.632 <sup>136</sup>	17.58 <sup>177</sup>	39.661 <sup>86</sup>	21.22 <sup>8</sup>
Apr. 10.1	46.892 <sup>65</sup>	38.07 <sup>221</sup>	27.29 <sup>28</sup>	77.54 <sup>276</sup>	48.496 <sup>75</sup>	15.81 <sup>181</sup>	39.575 <sup>46</sup>	21.30 <sup>25</sup>
20.1	46.827 <sup>18</sup>	35.86 <sup>246</sup>	27.01 <sup>9</sup>	74.78 <sup>284</sup>	48.421 <sup>8</sup>	14.00 <sup>179</sup>	39.529 <sup>3</sup>	21.55 <sup>42</sup>
30.0	46.809 <sup>32</sup>	33.40 <sup>267</sup>	26.92 <sup>10</sup>	71.94 <sup>282</sup>	48.413 <sup>61</sup>	12.21 <sup>170</sup>	39.526 <sup>44</sup>	21.97 <sup>62</sup>
Mai 10.0	46.841 <sup>80</sup>	30.73 <sup>280</sup>	27.02 <sup>29</sup>	69.12 <sup>268</sup>	48.474 <sup>129</sup>	10.51 <sup>154</sup>	39.570 <sup>90</sup>	22.59 <sup>81</sup>
20.0	46.921 <sup>129</sup>	27.93 <sup>290</sup>	27.31 <sup>48</sup>	66.44 <sup>247</sup>	48.603 <sup>195</sup>	8.97 <sup>132</sup>	39.660 <sup>135</sup>	23.40 <sup>100</sup>
30.0	47.050 <sup>174</sup>	25.03 <sup>291</sup>	27.79 <sup>63</sup>	63.97 <sup>218</sup>	48.798 <sup>254</sup>	7.65 <sup>105</sup>	39.795 <sup>176</sup>	24.40 <sup>116</sup>
Juni 8.9	47.224 <sup>216</sup>	22.12 <sup>286</sup>	28.42 <sup>78</sup>	61.79 <sup>183</sup>	49.052 <sup>307</sup>	6.60 <sup>76</sup>	39.971 <sup>213</sup>	25.56 <sup>130</sup>
18.9	47.440 <sup>250</sup>	19.26 <sup>274</sup>	29.20 <sup>90</sup>	59.96 <sup>143</sup>	49.359 <sup>350</sup>	5.84 <sup>44</sup>	40.184 <sup>243</sup>	26.86 <sup>142</sup>
28.9	47.690 <sup>277</sup>	16.52 <sup>254</sup>	30.10 <sup>100</sup>	58.53 <sup>98</sup>	49.709 <sup>385</sup>	5.40 <sup>11</sup>	40.427 <sup>267</sup>	28.28 <sup>149</sup>
Juli 8.8	47.967 <sup>299</sup>	13.98 <sup>227</sup>	31.10 <sup>108</sup>	57.55 <sup>52</sup>	50.094 <sup>409</sup>	5.29 <sup>22</sup>	40.694 <sup>283</sup>	29.77 <sup>152</sup>
18.8	48.266 <sup>312</sup>	11.71 <sup>194</sup>	32.18 <sup>111</sup>	57.03 <sup>5</sup>	50.503 <sup>423</sup>	5.51 <sup>54</sup>	40.977 <sup>294</sup>	31.29 <sup>150</sup>
28.8	48.578 <sup>316</sup>	9.77 <sup>156</sup>	33.29 <sup>115</sup>	56.98 <sup>43</sup>	50.926 <sup>429</sup>	6.05 <sup>84</sup>	41.271 <sup>297</sup>	32.79 <sup>143</sup>
Aug. 7.8	48.894 <sup>315</sup>	8.21 <sup>111</sup>	34.44 <sup>113</sup>	57.41 <sup>88</sup>	51.355 <sup>426</sup>	6.89 <sup>112</sup>	41.568 <sup>295</sup>	34.22 <sup>134</sup>
17.7	49.209 <sup>305</sup>	7.10 <sup>64</sup>	35.57 <sup>112</sup>	58.29 <sup>134</sup>	51.781 <sup>414</sup>	8.01 <sup>137</sup>	41.863 <sup>285</sup>	35.56 <sup>119</sup>
27.7	49.514 <sup>289</sup>	6.46 <sup>15</sup>	36.69 <sup>107</sup>	59.63 <sup>174</sup>	52.195 <sup>397</sup>	9.38 <sup>158</sup>	42.148 <sup>273</sup>	36.75 <sup>101</sup>
Sept. 6.7	49.803 <sup>268</sup>	6.31 <sup>34</sup>	37.76 <sup>100</sup>	61.37 <sup>212</sup>	52.592 <sup>373</sup>	10.96 <sup>176</sup>	42.421 <sup>255</sup>	37.76 <sup>82</sup>
16.7	50.071 <sup>241</sup>	6.65 <sup>81</sup>	38.76 <sup>92</sup>	63.49 <sup>247</sup>	52.965 <sup>345</sup>	12.72 <sup>192</sup>	42.676 <sup>235</sup>	38.58 <sup>60</sup>
26.6	50.312 <sup>213</sup>	7.46 <sup>126</sup>	39.68 <sup>82</sup>	65.96 <sup>276</sup>	53.310 <sup>312</sup>	14.64 <sup>203</sup>	42.911 <sup>212</sup>	39.18 <sup>39</sup>
Okt. 6.6	50.525 <sup>179</sup>	8.72 <sup>165</sup>	40.50 <sup>71</sup>	68.72 <sup>299</sup>	53.622 <sup>275</sup>	16.67 <sup>211</sup>	43.123 <sup>187</sup>	39.57 <sup>18</sup>
16.6	50.704 <sup>144</sup>	10.37 <sup>196</sup>	41.21 <sup>57</sup>	71.71 <sup>318</sup>	53.897 <sup>235</sup>	18.78 <sup>215</sup>	43.310 <sup>161</sup>	39.75 <sup>1</sup>
26.5	50.848 <sup>108</sup>	12.33 <sup>220</sup>	41.78 <sup>42</sup>	74.89 <sup>329</sup>	54.132 <sup>192</sup>	20.93 <sup>216</sup>	43.471 <sup>134</sup>	39.74 <sup>18</sup>
Nov. 5.5	50.956 <sup>70</sup>	14.53 <sup>234</sup>	42.20 <sup>27</sup>	78.18 <sup>333</sup>	54.324 <sup>145</sup>	23.09 <sup>212</sup>	43.605 <sup>102</sup>	39.56 <sup>32</sup>
15.5	51.026 <sup>32</sup>	16.87 <sup>239</sup>	42.47 <sup>11</sup>	81.51 <sup>329</sup>	54.469 <sup>94</sup>	25.21 <sup>204</sup>	43.707 <sup>72</sup>	39.24 <sup>43</sup>
25.5	51.058 <sup>6</sup>	19.26 <sup>235</sup>	42.58 <sup>7</sup>	84.80 <sup>316</sup>	54.563 <sup>42</sup>	27.25 <sup>192</sup>	43.779 <sup>40</sup>	38.81 <sup>50</sup>
Dez. 5.4	51.052 <sup>42</sup>	21.61 <sup>221</sup>	42.51 <sup>24</sup>	87.96 <sup>295</sup>	54.605 <sup>13</sup>	29.17 <sup>174</sup>	43.819 <sup>6</sup>	38.31 <sup>55</sup>
15.4	51.010 <sup>79</sup>	23.82 <sup>200</sup>	42.27 <sup>41</sup>	90.91 <sup>264</sup>	54.592 <sup>67</sup>	30.91 <sup>151</sup>	43.825 <sup>28</sup>	37.76 <sup>57</sup>
25.4	50.931 <sup>113</sup>	25.82 <sup>171</sup>	41.86 <sup>57</sup>	93.55 <sup>224</sup>	54.525 <sup>121</sup>	32.42 <sup>123</sup>	43.797 <sup>61</sup>	37.19 <sup>58</sup>
35.4	50.818	27.53	41.29	95.79	54.404	33.65	43.736	36.61
Mittl. Ort sec $\delta$ , tg $\delta$	47.928 I.147	23.73 -0.561	29.31 4.604	74.83 +4.494	48.953 I.543	18.07 +I.174	40.021 I.012	31.72 +0.154



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	122) 2 H. Camelop.		125) $\gamma$ Tauri		127) $\epsilon$ Eridani <sup>(*)</sup>		131) $\delta$ Persei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	3 <sup>h</sup> 22 <sup>m</sup>	+59° 40'	3 <sup>h</sup> 26 <sup>m</sup>	+12° 40'	3 <sup>h</sup> 29 <sup>m</sup>	-9° 42'	3 <sup>h</sup> 37 <sup>m</sup>	+47° 32'
Jan. 0.4	51.521 <sub>211</sub>	29.12 <sub>144</sub>	38.086 <sub>79</sub>	19.33 <sub>44</sub>	18.898 <sub>91</sub>	77.32 <sub>122</sub>	27.806 <sub>124</sub>	34.86 <sub>107</sub>
10.3	51.310 <sub>272</sub>	30.56 <sub>104</sub>	38.007 <sub>110</sub>	18.89 <sub>47</sub>	18.807 <sub>121</sub>	78.54 <sub>103</sub>	27.682 <sub>173</sub>	35.93 <sub>75</sub>
20.3	51.038 <sub>319</sub>	31.60 <sub>60</sub>	37.897 <sub>137</sub>	18.42 <sub>46</sub>	18.686 <sub>145</sub>	79.57 <sub>80</sub>	27.509 <sub>213</sub>	36.68 <sub>43</sub>
30.3	50.719 <sub>353</sub>	32.20 <sub>13</sub>	37.760 <sub>157</sub>	17.96 <sub>47</sub>	18.541 <sub>163</sub>	80.37 <sub>56</sub>	27.296 <sub>244</sub>	37.11 <sub>8</sub>
Feb. 9.3	50.366 <sub>369</sub>	32.33 <sub>34</sub>	37.603 <sub>168</sub>	17.49 <sub>46</sub>	18.378 <sub>174</sub>	80.93 <sub>31</sub>	27.052 <sub>262</sub>	37.19 <sub>28</sub>
19.2	49.997 <sub>369</sub>	31.99 <sub>79</sub>	37.435 <sub>173</sub>	17.03 <sub>43</sub>	18.204 <sub>178</sub>	81.24 <sub>6</sub>	26.790 <sub>267</sub>	36.91 <sub>62</sub>
März 1.2	49.628 <sub>349</sub>	31.20 <sub>121</sub>	37.262 <sub>166</sub>	16.60 <sub>38</sub>	18.026 <sub>171</sub>	81.30 <sub>21</sub>	26.523 <sub>259</sub>	36.29 <sub>94</sub>
11.2	49.279 <sub>312</sub>	29.99 <sub>157</sub>	37.096 <sub>150</sub>	16.22 <sub>32</sub>	17.855 <sub>155</sub>	81.09 <sub>46</sub>	26.264 <sub>235</sub>	35.35 <sub>121</sub>
21.1	48.967 <sub>259</sub>	28.42 <sub>186</sub>	36.946 <sub>124</sub>	15.90 <sub>23</sub>	17.700 <sub>131</sub>	80.63 <sub>73</sub>	26.029 <sub>198</sub>	34.14 <sub>143</sub>
31.1	48.708 <sub>191</sub>	26.56 <sub>206</sub>	36.822 <sub>91</sub>	15.67 <sub>11</sub>	17.569 <sub>99</sub>	79.90 <sub>97</sub>	25.831 <sub>151</sub>	32.71 <sub>158</sub>
Apr. 10.1	48.517 <sub>114</sub>	24.50 <sub>219</sub>	36.731 <sub>51</sub>	15.56 <sub>3</sub>	17.470 <sub>60</sub>	78.93 <sub>123</sub>	25.680 <sub>93</sub>	31.13 <sub>165</sub>
20.1	48.403 <sub>31</sub>	22.31 <sub>223</sub>	36.680 <sub>7</sub>	15.59 <sub>20</sub>	17.410 <sub>19</sub>	77.70 <sub>145</sub>	25.587 <sub>31</sub>	29.48 <sub>166</sub>
30.0	48.372 <sub>57</sub>	20.08 <sub>216</sub>	36.673 <sub>40</sub>	15.79 <sub>38</sub>	17.391 <sub>28</sub>	76.25 <sub>167</sub>	25.556 <sub>36</sub>	27.82 <sub>160</sub>
Mai 10.0	48.429 <sub>143</sub>	17.92 <sub>204</sub>	36.713 <sub>87</sub>	16.17 <sub>57</sub>	17.419 <sub>73</sub>	74.58 <sub>184</sub>	25.592 <sub>101</sub>	26.22 <sub>147</sub>
20.0	48.572 <sub>224</sub>	15.88 <sub>183</sub>	36.800 <sub>133</sub>	16.74 <sub>75</sub>	17.492 <sub>117</sub>	72.74 <sub>199</sub>	25.693 <sub>166</sub>	24.75 <sub>129</sub>
30.0	48.796 <sub>301</sub>	14.05 <sub>156</sub>	36.933 <sub>174</sub>	17.49 <sub>93</sub>	17.609 <sub>159</sub>	70.75 <sub>210</sub>	25.859 <sub>224</sub>	23.46 <sub>105</sub>
Juni 8.9	49.097 <sub>367</sub>	12.49 <sub>126</sub>	37.107 <sub>212</sub>	18.42 <sub>109</sub>	17.768 <sub>196</sub>	68.65 <sub>215</sub>	26.083 <sub>278</sub>	22.41 <sub>80</sub>
18.9	49.464 <sub>424</sub>	11.23 <sub>90</sub>	37.319 <sub>243</sub>	19.51 <sub>122</sub>	17.964 <sub>228</sub>	66.50 <sub>215</sub>	26.361 <sub>323</sub>	21.61 <sub>51</sub>
28.9	49.888 <sub>468</sub>	10.33 <sub>53</sub>	37.562 <sub>268</sub>	20.73 <sub>132</sub>	18.192 <sub>254</sub>	64.35 <sub>209</sub>	26.684 <sub>358</sub>	21.10 <sub>21</sub>
Juli 8.8	50.356 <sub>502</sub>	9.80 <sub>16</sub>	37.830 <sub>286</sub>	22.05 <sub>138</sub>	18.446 <sub>273</sub>	62.26 <sub>197</sub>	27.042 <sub>386</sub>	20.89 <sub>10</sub>
18.8	50.858 <sub>522</sub>	9.64 <sub>23</sub>	38.116 <sub>297</sub>	23.43 <sub>140</sub>	18.719 <sub>284</sub>	60.29 <sub>180</sub>	27.428 <sub>404</sub>	20.99 <sub>38</sub>
28.8	51.380 <sub>532</sub>	9.87 <sub>59</sub>	38.413 <sub>300</sub>	24.83 <sub>137</sub>	19.003 <sub>290</sub>	58.49 <sub>157</sub>	27.832 <sub>413</sub>	21.37 <sub>67</sub>
Aug. 7.8	51.912 <sub>530</sub>	10.46 <sub>95</sub>	38.713 <sub>299</sub>	26.20 <sub>131</sub>	19.293 <sub>289</sub>	56.92 <sub>128</sub>	28.245 <sub>413</sub>	22.04 <sub>92</sub>
17.7	52.442 <sub>520</sub>	11.41 <sub>128</sub>	39.012 <sub>290</sub>	27.51 <sub>120</sub>	19.582 <sub>281</sub>	55.64 <sub>97</sub>	28.658 <sub>407</sub>	22.96 <sub>115</sub>
27.7	52.962 <sub>499</sub>	12.69 <sub>159</sub>	39.302 <sub>279</sub>	28.71 <sub>107</sub>	19.863 <sub>269</sub>	54.67 <sub>63</sub>	29.065 <sub>393</sub>	24.11 <sub>136</sub>
Sept. 6.7	53.461 <sub>472</sub>	14.28 <sub>185</sub>	39.581 <sub>262</sub>	29.78 <sub>91</sub>	20.132 <sub>253</sub>	54.04 <sub>26</sub>	29.458 <sub>375</sub>	25.47 <sub>154</sub>
16.7	53.933 <sub>436</sub>	16.13 <sub>209</sub>	39.843 <sub>242</sub>	30.69 <sub>72</sub>	20.385 <sub>232</sub>	53.78 <sub>10</sub>	29.833 <sub>350</sub>	27.01 <sub>168</sub>
26.6	54.369 <sub>396</sub>	18.22 <sub>228</sub>	40.085 <sub>220</sub>	31.41 <sub>55</sub>	20.617 <sub>209</sub>	53.88 <sub>45</sub>	30.183 <sub>321</sub>	28.69 <sub>179</sub>
Okt. 6.6	54.765 <sub>350</sub>	20.50 <sub>243</sub>	40.305 <sub>196</sub>	31.96 <sub>36</sub>	20.826 <sub>184</sub>	54.33 <sub>78</sub>	30.504 <sub>290</sub>	30.48 <sub>188</sub>
16.6	55.115 <sub>298</sub>	22.93 <sub>254</sub>	40.501 <sub>170</sub>	32.32 <sub>19</sub>	21.010 <sub>156</sub>	55.11 <sub>105</sub>	30.794 <sub>253</sub>	32.36 <sub>194</sub>
26.5	55.413 <sub>241</sub>	25.47 <sub>261</sub>	40.671 <sub>142</sub>	32.51 <sub>4</sub>	21.166 <sub>126</sub>	56.16 <sub>128</sub>	31.047 <sub>214</sub>	34.30 <sub>196</sub>
Nov. 5.5	55.654 <sub>178</sub>	28.08 <sub>260</sub>	40.813 <sub>112</sub>	32.55 <sub>9</sub>	21.292 <sub>96</sub>	57.44 <sub>144</sub>	31.261 <sub>169</sub>	36.26 <sub>194</sub>
15.5	55.832 <sub>112</sub>	30.68 <sub>255</sub>	40.925 <sub>81</sub>	32.46 <sub>20</sub>	21.388 <sub>64</sub>	58.88 <sub>153</sub>	31.430 <sub>121</sub>	38.20 <sub>190</sub>
25.5	55.944 <sub>42</sub>	33.23 <sub>244</sub>	41.006 <sub>47</sub>	32.26 <sub>28</sub>	21.452 <sub>31</sub>	60.41 <sub>156</sub>	31.551 <sub>71</sub>	40.10 <sub>181</sub>
Dez. 5.4	55.986 <sub>30</sub>	35.67 <sub>226</sub>	41.053 <sub>13</sub>	31.98 <sub>33</sub>	21.483 <sub>4</sub>	61.97 <sub>154</sub>	31.622 <sub>17</sub>	41.91 <sub>167</sub>
15.4	55.956 <sub>104</sub>	37.93 <sub>201</sub>	41.066 <sub>22</sub>	31.65 <sub>38</sub>	21.479 <sub>37</sub>	63.51 <sub>144</sub>	31.639 <sub>38</sub>	43.58 <sub>148</sub>
25.4	55.852 <sub>172</sub>	39.94 <sub>169</sub>	41.044 <sub>57</sub>	31.27 <sub>41</sub>	21.442 <sub>71</sub>	64.95 <sub>130</sub>	31.601 <sub>92</sub>	45.06 <sub>126</sub>
35.4	55.680	41.63	40.987	30.86	21.371	66.25	31.509	46.32
Mittl. Ort	49.144	24.62	37.135	25.38	18.107	65.27	26.065	33.52
sec $\delta$ , tg $\delta$	1.981	+1.710	1.025	+0.225	1.015	-0.171	1.481	+1.093

<sup>\*</sup>) Die jährliche Parallaxe (0.32) ist bereits berücksichtigt

Mittlere Zeit Greenw.	134) $\nu$ Persei		138) $\delta$ Camelop.		139) $\eta$ Tauri		141) $\beta$ Reticuli	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$3^h 39^m$	$+42^\circ 20'$	$3^h 42^m$	$+71^\circ 5'$	$3^h 42^m$	$+23^\circ 51'$	$3^h 43^m$	$-65^\circ 2'$
Jan. 0.4	58.930 <sub>105</sub>	11.76 <sub>85</sub>	16.08 <sub>34</sub>	53.52 <sub>202</sub>	55.373 <sub>73</sub>	61.26 <sub>5</sub>	15.26 <sub>38</sub>	78.49 <sub>208</sub>
10.3	58.825 <sub>150</sub>	12.61 <sub>60</sub>	15.74 <sub>44</sub>	55.54 <sub>160</sub>	55.300 <sub>110</sub>	61.31 <sub>6</sub>	14.88 <sub>43</sub>	80.57 <sub>158</sub>
20.3	58.675 <sub>188</sub>	13.21 <sub>31</sub>	15.30 <sub>51</sub>	57.14 <sub>111</sub>	55.190 <sub>141</sub>	61.25 <sub>17</sub>	14.45 <sub>47</sub>	82.15 <sub>101</sub>
30.3	58.487 <sub>217</sub>	13.52 <sub>0</sub>	14.79 <sub>58</sub>	58.25 <sub>58</sub>	55.049 <sub>166</sub>	61.08 <sub>28</sub>	13.98 <sub>51</sub>	83.16 <sub>44</sub>
Feb. 9.3	58.270 <sub>235</sub>	13.52 <sub>29</sub>	14.21 <sub>60</sub>	58.83 <sub>4</sub>	54.883 <sub>182</sub>	60.80 <sub>39</sub>	13.47 <sub>52</sub>	83.60 <sub>15</sub>
19.2	58.035 <sub>241</sub>	13.23 <sub>59</sub>	13.61 <sub>62</sub>	58.87 <sub>51</sub>	54.701 <sub>189</sub>	60.41 <sub>48</sub>	12.95 <sub>52</sub>	83.45 <sub>71</sub>
März 1.2	57.794 <sub>234</sub>	12.64 <sub>85</sub>	12.99 <sub>58</sub>	58.36 <sub>103</sub>	54.512 <sub>184</sub>	59.93 <sub>56</sub>	12.43 <sub>50</sub>	82.74 <sub>125</sub>
11.2	57.560 <sub>214</sub>	11.79 <sub>109</sub>	12.41 <sub>55</sub>	57.33 <sub>149</sub>	54.328 <sub>169</sub>	59.37 <sub>60</sub>	11.93 <sub>47</sub>	81.49 <sub>175</sub>
21.2	57.346 <sub>180</sub>	10.70 <sub>125</sub>	11.86 <sub>46</sub>	55.84 <sub>190</sub>	54.159 <sub>144</sub>	58.77 <sub>63</sub>	11.46 <sub>43</sub>	79.74 <sub>221</sub>
31.1	57.166 <sub>138</sub>	9.45 <sub>137</sub>	11.40 <sub>36</sub>	53.94 <sub>221</sub>	54.015 <sub>110</sub>	58.14 <sub>59</sub>	11.03 <sub>36</sub>	77.53 <sub>262</sub>
Apr. 10.1	57.028 <sub>85</sub>	8.08 <sub>142</sub>	11.04 <sub>26</sub>	51.73 <sub>244</sub>	53.905 <sub>68</sub>	57.55 <sub>54</sub>	10.67 <sub>29</sub>	74.91 <sub>296</sub>
20.1	56.943 <sub>29</sub>	6.66 <sub>140</sub>	10.78 <sub>12</sub>	49.29 <sub>257</sub>	53.837 <sub>22</sub>	57.01 <sub>43</sub>	10.38 <sub>21</sub>	71.95 <sub>324</sub>
30.0	56.914 <sub>33</sub>	5.26 <sub>133</sub>	10.66 <sub>0</sub>	46.72 <sub>260</sub>	53.815 <sub>28</sub>	56.58 <sub>30</sub>	10.17 <sub>13</sub>	68.71 <sub>344</sub>
Mai 10.0	56.947 <sub>93</sub>	3.93 <sub>120</sub>	10.66 <sub>13</sub>	44.12 <sub>253</sub>	53.843 <sub>78</sub>	56.28 <sub>14</sub>	10.04 <sub>3</sub>	65.27 <sub>357</sub>
20.0	57.040 <sub>153</sub>	2.73 <sub>101</sub>	10.79 <sub>26</sub>	41.59 <sub>240</sub>	53.921 <sub>127</sub>	56.14 <sub>5</sub>	10.01 <sub>6</sub>	61.70 <sub>362</sub>
30.0	57.193 <sub>207</sub>	1.72 <sub>79</sub>	11.05 <sub>38</sub>	39.19 <sub>217</sub>	54.048 <sub>172</sub>	56.19 <sub>23</sub>	10.07 <sub>15</sub>	58.08 <sub>358</sub>
Juni 8.9	57.400 <sub>257</sub>	0.93 <sub>55</sub>	11.43 <sub>48</sub>	37.02 <sub>188</sub>	54.220 <sub>213</sub>	56.42 <sub>43</sub>	10.22 <sub>24</sub>	54.50 <sub>346</sub>
18.9	57.657 <sub>297</sub>	0.38 <sub>28</sub>	11.91 <sub>58</sub>	35.14 <sub>154</sub>	54.433 <sub>248</sub>	56.85 <sub>60</sub>	10.46 <sub>31</sub>	51.04 <sub>323</sub>
28.9	57.954 <sub>332</sub>	0.10 <sub>1</sub>	12.49 <sub>66</sub>	33.60 <sub>116</sub>	54.681 <sub>275</sub>	57.45 <sub>77</sub>	10.77 <sub>39</sub>	47.81 <sub>294</sub>
Juli 8.9	58.286 <sub>357</sub>	0.09 <sub>26</sub>	13.15 <sub>72</sub>	32.44 <sub>76</sub>	54.956 <sub>297</sub>	58.22 <sub>92</sub>	11.16 <sub>45</sub>	44.87 <sub>256</sub>
18.8	58.643 <sub>373</sub>	0.35 <sub>51</sub>	13.87 <sub>76</sub>	31.68 <sub>34</sub>	55.253 <sub>310</sub>	59.14 <sub>102</sub>	11.61 <sub>50</sub>	42.31 <sub>210</sub>
28.8	59.016 <sub>381</sub>	0.86 <sub>74</sub>	14.63 <sub>78</sub>	31.34 <sub>9</sub>	55.563 <sub>317</sub>	60.16 <sub>110</sub>	12.11 <sub>53</sub>	40.21 <sub>157</sub>
Aug. 7.8	59.397 <sub>382</sub>	1.60 <sub>97</sub>	15.41 <sub>80</sub>	31.43 <sub>51</sub>	55.880 <sub>317</sub>	61.26 <sub>114</sub>	12.64 <sub>56</sub>	38.64 <sub>100</sub>
17.7	59.779 <sub>376</sub>	2.57 <sub>115</sub>	16.21 <sub>79</sub>	31.94 <sub>92</sub>	56.197 <sub>312</sub>	62.40 <sub>115</sub>	13.20 <sub>56</sub>	37.64 <sub>40</sub>
27.7	60.155 <sub>364</sub>	3.72 <sub>130</sub>	17.00 <sub>78</sub>	32.86 <sub>132</sub>	56.509 <sub>302</sub>	63.55 <sub>113</sub>	13.76 <sub>55</sub>	37.24 <sub>24</sub>
Sept. 6.7	60.519 <sub>347</sub>	5.02 <sub>143</sub>	17.78 <sub>74</sub>	34.18 <sub>167</sub>	56.811 <sub>287</sub>	64.68 <sub>108</sub>	14.31 <sub>52</sub>	37.48 <sub>86</sub>
16.7	60.866 <sub>324</sub>	6.45 <sub>154</sub>	18.52 <sub>70</sub>	35.85 <sub>201</sub>	57.098 <sub>269</sub>	65.76 <sub>101</sub>	14.83 <sub>48</sub>	38.34 <sub>147</sub>
26.6	61.190 <sub>300</sub>	7.99 <sub>161</sub>	19.22 <sub>64</sub>	37.86 <sub>230</sub>	57.367 <sub>247</sub>	66.77 <sub>92</sub>	15.31 <sub>42</sub>	39.81 <sub>201</sub>
Okt. 6.6	61.490 <sub>269</sub>	9.60 <sub>166</sub>	19.86 <sub>57</sub>	40.16 <sub>256</sub>	57.614 <sub>225</sub>	67.69 <sub>84</sub>	15.73 <sub>36</sub>	41.82 <sub>250</sub>
16.6	61.759 <sub>237</sub>	11.26 <sub>168</sub>	20.43 <sub>49</sub>	42.72 <sub>276</sub>	57.839 <sub>199</sub>	68.53 <sub>73</sub>	16.09 <sub>28</sub>	44.32 <sub>288</sub>
26.6	61.996 <sub>202</sub>	12.94 <sub>167</sub>	20.92 <sub>41</sub>	45.48 <sub>290</sub>	58.038 <sub>170</sub>	69.26 <sub>64</sub>	16.37 <sub>19</sub>	47.20 <sub>318</sub>
Nov. 5.5	62.198 <sub>161</sub>	14.61 <sub>166</sub>	21.33 <sub>30</sub>	48.38 <sub>300</sub>	58.208 <sub>138</sub>	69.90 <sub>56</sub>	16.56 <sub>11</sub>	50.38 <sub>333</sub>
15.5	62.359 <sub>119</sub>	16.27 <sub>160</sub>	21.63 <sub>20</sub>	51.38 <sub>301</sub>	58.346 <sub>106</sub>	70.46 <sub>46</sub>	16.67 <sub>1</sub>	53.71 <sub>338</sub>
25.5	62.478 <sub>73</sub>	17.87 <sub>151</sub>	21.83 <sub>8</sub>	54.39 <sub>296</sub>	58.452 <sub>69</sub>	70.92 <sub>39</sub>	16.68 <sub>7</sub>	57.09 <sub>328</sub>
Dez. 5.4	62.551 <sub>24</sub>	19.38 <sub>138</sub>	21.91 <sub>4</sub>	57.35 <sub>282</sub>	58.521 <sub>31</sub>	71.31 <sub>31</sub>	16.61 <sub>17</sub>	60.37 <sub>308</sub>
15.4	62.575 <sub>26</sub>	20.76 <sub>122</sub>	21.87 <sub>15</sub>	60.17 <sub>260</sub>	58.552 <sub>9</sub>	71.62 <sub>22</sub>	16.44 <sub>25</sub>	63.45 <sub>276</sub>
25.4	62.549 <sub>75</sub>	21.98 <sub>103</sub>	21.72 <sub>27</sub>	62.77 <sub>228</sub>	58.543 <sub>48</sub>	71.84 <sub>13</sub>	16.19 <sub>33</sub>	66.21 <sub>236</sub>
35.4	62.474	23.01	21.45	65.05	58.495	71.97	15.86	68.57
Mittl. Ort	57.369	11.58	12.10	49.12	54.219	65.25	13.70	56.92
sec $\delta$ , tg $\delta$	1.353	+0.911	3.087	+2.920	1.093	+0.443	2.371	-2.149



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	140) $\tau^6$ Eridani		143) $\eta$ Eridani		146) $\gamma$ Hydri		144) $\zeta$ Persei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	3 <sup>h</sup> 43 <sup>m</sup>	-23° 28'	3 <sup>h</sup> 46 <sup>m</sup>	-36° 25'	3 <sup>h</sup> 48 <sup>m</sup>	-74° 28'	3 <sup>h</sup> 49 <sup>m</sup>	+31° 39'
Jan. 0.4	32.900 <sup>101</sup>	49.78 <sup>171</sup>	35.271 <sup>134</sup>	75.58 <sup>198</sup>	27.41 <sup>65</sup>	53.35 <sup>206</sup>	18.558 <sup>77</sup>	19.59 <sup>41</sup>
10.3	32.799 <sup>133</sup>	51.49 <sup>140</sup>	35.137 <sup>170</sup>	77.56 <sup>159</sup>	26.76 <sup>73</sup>	55.41 <sup>153</sup>	18.481 <sup>116</sup>	20.00 <sup>25</sup>
20.3	32.666 <sup>161</sup>	52.89 <sup>106</sup>	34.967 <sup>199</sup>	79.15 <sup>116</sup>	26.03 <sup>80</sup>	56.94 <sup>98</sup>	18.365 <sup>152</sup>	20.25 <sup>8</sup>
30.3	32.505 <sup>182</sup>	53.95 <sup>70</sup>	34.768 <sup>223</sup>	80.31 <sup>71</sup>	25.23 <sup>85</sup>	57.92 <sup>38</sup>	18.213 <sup>179</sup>	20.33 <sup>11</sup>
Feb. 9.3	32.323 <sup>196</sup>	54.65 <sup>33</sup>	34.545 <sup>237</sup>	81.02 <sup>24</sup>	24.38 <sup>86</sup>	58.30 <sup>19</sup>	18.034 <sup>198</sup>	20.22 <sup>30</sup>
19.2	32.127 <sup>201</sup>	54.98 <sup>5</sup>	34.308 <sup>241</sup>	81.26 <sup>23</sup>	23.52 <sup>87</sup>	58.11 <sup>76</sup>	17.836 <sup>206</sup>	19.92 <sup>49</sup>
März 1.2	31.926 <sup>197</sup>	54.93 <sup>42</sup>	34.067 <sup>237</sup>	81.03 <sup>69</sup>	22.65 <sup>83</sup>	57.35 <sup>130</sup>	17.630 <sup>202</sup>	19.43 <sup>64</sup>
11.2	31.729 <sup>183</sup>	54.51 <sup>79</sup>	33.830 <sup>220</sup>	80.34 <sup>113</sup>	21.82 <sup>79</sup>	56.05 <sup>181</sup>	17.428 <sup>187</sup>	18.79 <sup>77</sup>
21.2	31.546 <sup>160</sup>	53.72 <sup>113</sup>	33.610 <sup>196</sup>	79.21 <sup>154</sup>	21.03 <sup>71</sup>	54.24 <sup>225</sup>	17.241 <sup>160</sup>	18.02 <sup>86</sup>
31.1	31.386 <sup>129</sup>	52.59 <sup>146</sup>	33.414 <sup>162</sup>	77.67 <sup>191</sup>	20.32 <sup>62</sup>	51.99 <sup>265</sup>	17.081 <sup>124</sup>	17.16 <sup>90</sup>
Apr. 10.1	31.257 <sup>91</sup>	51.13 <sup>177</sup>	33.252 <sup>120</sup>	75.76 <sup>226</sup>	19.70 <sup>52</sup>	49.34 <sup>299</sup>	16.957 <sup>80</sup>	16.26 <sup>90</sup>
20.1	31.166 <sup>48</sup>	49.36 <sup>204</sup>	33.132 <sup>74</sup>	73.50 <sup>255</sup>	19.18 <sup>39</sup>	46.35 <sup>325</sup>	16.877 <sup>31</sup>	15.36 <sup>85</sup>
30.0	31.118 <sup>1</sup>	47.32 <sup>226</sup>	33.058 <sup>23</sup>	70.95 <sup>279</sup>	18.79 <sup>27</sup>	43.10 <sup>345</sup>	16.846 <sup>22</sup>	14.51 <sup>74</sup>
Mai 10.0	31.117 <sup>47</sup>	45.06 <sup>246</sup>	33.035 <sup>30</sup>	68.16 <sup>296</sup>	18.52 <sup>12</sup>	39.65 <sup>357</sup>	16.868 <sup>76</sup>	13.77 <sup>61</sup>
20.0	31.164 <sup>93</sup>	42.60 <sup>259</sup>	33.065 <sup>82</sup>	65.20 <sup>309</sup>	18.40 <sup>1</sup>	36.08 <sup>361</sup>	16.944 <sup>128</sup>	13.16 <sup>43</sup>
30.0	31.257 <sup>139</sup>	40.01 <sup>266</sup>	33.147 <sup>133</sup>	62.11 <sup>312</sup>	18.41 <sup>15</sup>	32.47 <sup>356</sup>	17.072 <sup>177</sup>	12.73 <sup>24</sup>
Juni 8.9	31.396 <sup>180</sup>	37.35 <sup>267</sup>	33.280 <sup>180</sup>	58.99 <sup>308</sup>	18.56 <sup>29</sup>	28.91 <sup>342</sup>	17.249 <sup>221</sup>	12.49 <sup>3</sup>
18.9	31.576 <sup>217</sup>	34.68 <sup>261</sup>	33.460 <sup>222</sup>	55.91 <sup>298</sup>	18.85 <sup>42</sup>	25.49 <sup>320</sup>	17.470 <sup>259</sup>	12.46 <sup>18</sup>
28.9	31.793 <sup>247</sup>	32.07 <sup>249</sup>	33.682 <sup>258</sup>	52.93 <sup>278</sup>	19.27 <sup>53</sup>	22.29 <sup>290</sup>	17.729 <sup>289</sup>	12.64 <sup>39</sup>
Juli 8.9	32.040 <sup>271</sup>	29.58 <sup>228</sup>	33.940 <sup>288</sup>	50.15 <sup>251</sup>	19.80 <sup>64</sup>	19.39 <sup>251</sup>	18.018 <sup>312</sup>	13.03 <sup>57</sup>
18.8	32.311 <sup>288</sup>	27.30 <sup>203</sup>	34.228 <sup>309</sup>	47.64 <sup>217</sup>	20.44 <sup>72</sup>	16.88 <sup>204</sup>	18.330 <sup>328</sup>	13.60 <sup>75</sup>
28.8	32.599 <sup>298</sup>	25.27 <sup>169</sup>	34.537 <sup>322</sup>	45.47 <sup>176</sup>	21.16 <sup>78</sup>	14.84 <sup>153</sup>	18.658 <sup>336</sup>	14.35 <sup>89</sup>
Aug. 7.8	32.897 <sup>300</sup>	23.58 <sup>131</sup>	34.859 <sup>329</sup>	43.71 <sup>129</sup>	21.94 <sup>83</sup>	13.31 <sup>94</sup>	18.994 <sup>338</sup>	15.24 <sup>101</sup>
17.7	33.197 <sup>298</sup>	22.27 <sup>89</sup>	35.188 <sup>328</sup>	42.42 <sup>78</sup>	22.77 <sup>84</sup>	12.37 <sup>34</sup>	19.332 <sup>334</sup>	16.25 <sup>108</sup>
27.7	33.495 <sup>289</sup>	21.38 <sup>43</sup>	35.516 <sup>318</sup>	41.64 <sup>24</sup>	23.61 <sup>83</sup>	12.03 <sup>30</sup>	19.666 <sup>324</sup>	17.33 <sup>115</sup>
Sept. 6.7	33.784 <sup>273</sup>	20.95 <sup>4</sup>	35.834 <sup>304</sup>	41.40 <sup>30</sup>	24.44 <sup>79</sup>	12.33 <sup>91</sup>	19.990 <sup>310</sup>	18.48 <sup>118</sup>
16.7	34.057 <sup>255</sup>	20.99 <sup>51</sup>	36.138 <sup>281</sup>	41.70 <sup>84</sup>	25.23 <sup>73</sup>	13.24 <sup>152</sup>	20.300 <sup>292</sup>	19.66 <sup>118</sup>
26.6	34.312 <sup>231</sup>	21.50 <sup>95</sup>	36.419 <sup>255</sup>	42.54 <sup>135</sup>	25.96 <sup>65</sup>	14.76 <sup>207</sup>	20.592 <sup>270</sup>	20.84 <sup>117</sup>
Okt. 6.6	34.543 <sup>205</sup>	22.45 <sup>135</sup>	36.674 <sup>224</sup>	43.89 <sup>181</sup>	26.61 <sup>54</sup>	16.83 <sup>254</sup>	20.862 <sup>246</sup>	22.01 <sup>114</sup>
16.6	34.748 <sup>175</sup>	23.80 <sup>169</sup>	36.898 <sup>189</sup>	45.70 <sup>219</sup>	27.15 <sup>42</sup>	19.37 <sup>293</sup>	21.108 <sup>219</sup>	23.15 <sup>111</sup>
26.6	34.923 <sup>144</sup>	25.49 <sup>198</sup>	37.087 <sup>150</sup>	47.89 <sup>249</sup>	27.57 <sup>28</sup>	22.30 <sup>320</sup>	21.327 <sup>189</sup>	24.26 <sup>105</sup>
Nov. 5.5	35.067 <sup>109</sup>	27.47 <sup>216</sup>	37.237 <sup>109</sup>	50.38 <sup>269</sup>	27.85 <sup>13</sup>	25.50 <sup>336</sup>	21.516 <sup>156</sup>	25.31 <sup>100</sup>
15.5	35.176 <sup>74</sup>	29.63 <sup>227</sup>	37.346 <sup>66</sup>	53.07 <sup>279</sup>	27.98 <sup>2</sup>	28.86 <sup>339</sup>	21.672 <sup>120</sup>	26.31 <sup>94</sup>
25.5	35.250 <sup>36</sup>	31.90 <sup>228</sup>	37.412 <sup>23</sup>	55.86 <sup>277</sup>	27.96 <sup>17</sup>	32.25 <sup>329</sup>	21.792 <sup>80</sup>	27.25 <sup>86</sup>
Dez. 5.4	35.286 <sup>3</sup>	34.18 <sup>221</sup>	37.435 <sup>22</sup>	58.63 <sup>267</sup>	27.79 <sup>32</sup>	35.54 <sup>308</sup>	21.872 <sup>38</sup>	28.11 <sup>77</sup>
15.4	35.283 <sup>40</sup>	36.39 <sup>206</sup>	37.413 <sup>67</sup>	61.30 <sup>246</sup>	27.47 <sup>45</sup>	38.62 <sup>274</sup>	21.910 <sup>5</sup>	28.88 <sup>66</sup>
25.4	35.243 <sup>77</sup>	38.45 <sup>184</sup>	37.346 <sup>108</sup>	63.76 <sup>216</sup>	27.02 <sup>58</sup>	41.36 <sup>233</sup>	21.905 <sup>49</sup>	29.54 <sup>53</sup>
35.4	35.166	40.29	37.238	65.92	26.44	43.69	21.856	30.07
Mittl. Ort	32.041	34.62	34.341	57.91	24.85	31.42	17.244	22.18
sec $\delta$ , tg $\delta$	1.090	-0.434	1.243	-0.738	3.736	-3.600	1.175	+0.617



Mittlere Zeit Greenw.	145) $\eta$ Camelop.		147) $\epsilon$ Persei		148) $\xi$ Persei		149) $\gamma$ Eridani	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$3^{\text{h}} 50^{\text{m}}$	$+60^{\circ} 52'$	$3^{\text{h}} 52^{\text{m}}$	$+39^{\circ} 47'$	$3^{\text{h}} 53^{\text{m}}$	$+35^{\circ} 34'$	$3^{\text{h}} 54^{\text{m}}$	$-13^{\circ} 43'$
Jan. 0.4	36.07 <sup>19</sup>	68.02 <sup>171</sup>	42.381 <sup>87</sup>	18.22 <sup>80</sup>	59.261 <sup>78</sup>	12.85 <sup>62</sup>	27.062 <sup>77</sup>	49.23 <sup>147</sup>
10.4	35.88 <sup>25</sup>	69.73 <sup>134</sup>	42.294 <sup>132</sup>	19.02 <sup>58</sup>	59.183 <sup>121</sup>	13.47 <sup>42</sup>	26.985 <sup>110</sup>	50.70 <sup>125</sup>
20.3	35.63 <sup>31</sup>	71.07 <sup>93</sup>	42.162 <sup>172</sup>	19.60 <sup>33</sup>	59.062 <sup>158</sup>	13.89 <sup>22</sup>	26.875 <sup>140</sup>	51.95 <sup>99</sup>
30.3	35.32 <sup>36</sup>	72.00 <sup>48</sup>	41.990 <sup>202</sup>	19.93 <sup>7</sup>	58.904 <sup>189</sup>	14.11 <sup>1</sup>	26.735 <sup>162</sup>	52.94 <sup>71</sup>
Feb. 9.3	34.96 <sup>38</sup>	72.48 <sup>1</sup>	41.788 <sup>224</sup>	20.00 <sup>20</sup>	58.715 <sup>208</sup>	14.10 <sup>23</sup>	26.573 <sup>179</sup>	53.65 <sup>43</sup>
19.2	34.58 <sup>39</sup>	72.49 <sup>45</sup>	41.564 <sup>232</sup>	19.80 <sup>48</sup>	58.507 <sup>218</sup>	13.87 <sup>46</sup>	26.394 <sup>186</sup>	54.08 <sup>13</sup>
März 1.2	34.19 <sup>38</sup>	72.04 <sup>89</sup>	41.332 <sup>228</sup>	19.32 <sup>71</sup>	58.289 <sup>215</sup>	13.41 <sup>66</sup>	26.208 <sup>184</sup>	54.21 <sup>16</sup>
11.2	33.81 <sup>36</sup>	71.15 <sup>130</sup>	41.104 <sup>212</sup>	18.61 <sup>93</sup>	58.074 <sup>198</sup>	12.75 <sup>82</sup>	26.024 <sup>173</sup>	54.05 <sup>47</sup>
21.2	33.45 <sup>30</sup>	69.85 <sup>164</sup>	40.892 <sup>182</sup>	17.68 <sup>109</sup>	57.876 <sup>172</sup>	11.93 <sup>96</sup>	25.851 <sup>152</sup>	53.58 <sup>75</sup>
31.1	33.15 <sup>24</sup>	68.21 <sup>190</sup>	40.710 <sup>143</sup>	16.59 <sup>121</sup>	57.704 <sup>135</sup>	10.97 <sup>104</sup>	25.699 <sup>123</sup>	52.83 <sup>103</sup>
Apr. 10.1	32.91 <sup>17</sup>	66.31 <sup>209</sup>	40.567 <sup>95</sup>	15.38 <sup>126</sup>	57.569 <sup>90</sup>	9.93 <sup>107</sup>	25.576 <sup>87</sup>	51.80 <sup>131</sup>
20.1	32.74 <sup>8</sup>	64.22 <sup>219</sup>	40.472 <sup>41</sup>	14.12 <sup>125</sup>	57.479 <sup>38</sup>	8.86 <sup>104</sup>	25.489 <sup>4</sup>	50.49 <sup>155</sup>
30.1	32.66 <sup>0</sup>	62.03 <sup>220</sup>	40.431 <sup>18</sup>	12.87 <sup>119</sup>	57.441 <sup>17</sup>	7.82 <sup>96</sup>	25.443 <sup>2</sup>	48.94 <sup>178</sup>
Mai 10.0	32.66 <sup>10</sup>	59.83 <sup>213</sup>	40.449 <sup>77</sup>	11.68 <sup>108</sup>	57.458 <sup>73</sup>	6.86 <sup>83</sup>	25.441 <sup>44</sup>	47.16 <sup>198</sup>
20.0	32.76 <sup>18</sup>	57.70 <sup>199</sup>	40.526 <sup>134</sup>	10.60 <sup>91</sup>	57.531 <sup>127</sup>	6.03 <sup>68</sup>	25.485 <sup>89</sup>	45.18 <sup>213</sup>
30.0	32.94 <sup>26</sup>	55.71 <sup>179</sup>	40.660 <sup>188</sup>	9.69 <sup>71</sup>	57.658 <sup>179</sup>	5.35 <sup>48</sup>	25.574 <sup>133</sup>	43.05 <sup>223</sup>
Juni 8.9	33.20 <sup>34</sup>	53.92 <sup>152</sup>	40.848 <sup>236</sup>	8.98 <sup>49</sup>	57.837 <sup>225</sup>	4.87 <sup>27</sup>	25.707 <sup>172</sup>	40.82 <sup>229</sup>
18.9	33.54 <sup>40</sup>	52.40 <sup>122</sup>	41.084 <sup>278</sup>	8.49 <sup>25</sup>	58.062 <sup>264</sup>	4.60 <sup>5</sup>	25.879 <sup>208</sup>	38.53 <sup>229</sup>
28.9	33.94 <sup>46</sup>	51.18 <sup>88</sup>	41.362 <sup>312</sup>	8.24 <sup>1</sup>	58.326 <sup>297</sup>	4.55 <sup>18</sup>	26.087 <sup>236</sup>	36.24 <sup>223</sup>
Juli 8.9	34.40 <sup>49</sup>	50.30 <sup>52</sup>	41.674 <sup>338</sup>	8.23 <sup>23</sup>	58.623 <sup>322</sup>	4.73 <sup>38</sup>	26.323 <sup>260</sup>	34.01 <sup>209</sup>
18.8	34.89 <sup>53</sup>	49.78 <sup>17</sup>	42.012 <sup>357</sup>	8.46 <sup>47</sup>	58.945 <sup>339</sup>	5.11 <sup>59</sup>	26.583 <sup>276</sup>	31.92 <sup>191</sup>
28.8	35.42 <sup>55</sup>	49.61 <sup>21</sup>	42.369 <sup>366</sup>	8.93 <sup>67</sup>	59.284 <sup>349</sup>	5.70 <sup>76</sup>	26.859 <sup>286</sup>	30.01 <sup>166</sup>
Aug. 7.8	35.97 <sup>55</sup>	49.82 <sup>55</sup>	42.735 <sup>370</sup>	9.60 <sup>86</sup>	59.633 <sup>351</sup>	6.46 <sup>91</sup>	27.145 <sup>291</sup>	28.35 <sup>136</sup>
17.8	36.52 <sup>55</sup>	50.37 <sup>90</sup>	43.105 <sup>366</sup>	10.46 <sup>103</sup>	59.984 <sup>349</sup>	7.37 <sup>103</sup>	27.436 <sup>288</sup>	26.99 <sup>101</sup>
27.7	37.07 <sup>53</sup>	51.27 <sup>122</sup>	43.471 <sup>356</sup>	11.49 <sup>115</sup>	60.333 <sup>339</sup>	8.40 <sup>113</sup>	27.724 <sup>280</sup>	25.98 <sup>63</sup>
Sept. 6.7	37.60 <sup>52</sup>	52.49 <sup>151</sup>	43.827 <sup>342</sup>	12.64 <sup>127</sup>	60.672 <sup>325</sup>	9.53 <sup>120</sup>	28.004 <sup>268</sup>	25.35 <sup>23</sup>
16.7	38.12 <sup>49</sup>	54.00 <sup>177</sup>	44.169 <sup>323</sup>	13.91 <sup>135</sup>	60.997 <sup>307</sup>	10.73 <sup>124</sup>	28.272 <sup>251</sup>	25.12 <sup>17</sup>
26.6	38.61 <sup>45</sup>	55.77 <sup>201</sup>	44.492 <sup>300</sup>	15.26 <sup>142</sup>	61.304 <sup>286</sup>	11.97 <sup>127</sup>	28.523 <sup>233</sup>	25.29 <sup>55</sup>
Okt. 6.6	39.06 <sup>41</sup>	57.78 <sup>221</sup>	44.792 <sup>274</sup>	16.68 <sup>145</sup>	61.590 <sup>262</sup>	13.24 <sup>127</sup>	28.756 <sup>209</sup>	25.84 <sup>92</sup>
16.6	39.47 <sup>36</sup>	59.99 <sup>236</sup>	45.066 <sup>244</sup>	18.13 <sup>148</sup>	61.852 <sup>233</sup>	14.51 <sup>127</sup>	28.965 <sup>183</sup>	26.76 <sup>124</sup>
26.6	39.83 <sup>30</sup>	62.35 <sup>248</sup>	45.310 <sup>211</sup>	19.61 <sup>147</sup>	62.085 <sup>202</sup>	15.78 <sup>124</sup>	29.148 <sup>155</sup>	28.00 <sup>149</sup>
Nov. 5.5	40.13 <sup>24</sup>	64.83 <sup>254</sup>	45.521 <sup>174</sup>	21.08 <sup>146</sup>	62.287 <sup>168</sup>	17.02 <sup>121</sup>	29.303 <sup>124</sup>	29.49 <sup>169</sup>
15.5	40.37 <sup>18</sup>	67.37 <sup>255</sup>	45.695 <sup>133</sup>	22.54 <sup>142</sup>	62.455 <sup>129</sup>	18.23 <sup>116</sup>	29.427 <sup>91</sup>	31.18 <sup>180</sup>
25.5	40.55 <sup>9</sup>	69.92 <sup>250</sup>	45.828 <sup>89</sup>	23.96 <sup>134</sup>	62.584 <sup>88</sup>	19.39 <sup>109</sup>	29.518 <sup>57</sup>	32.98 <sup>185</sup>
Dez. 5.5	40.64 <sup>3</sup>	72.42 <sup>238</sup>	45.917 <sup>42</sup>	25.30 <sup>125</sup>	62.672 <sup>44</sup>	20.48 <sup>100</sup>	29.575 <sup>21</sup>	34.83 <sup>181</sup>
15.4	40.67 <sup>6</sup>	74.80 <sup>219</sup>	45.959 <sup>8</sup>	26.55 <sup>112</sup>	62.716 <sup>3</sup>	21.48 <sup>89</sup>	29.596 <sup>17</sup>	36.64 <sup>172</sup>
25.4	40.61 <sup>14</sup>	76.99 <sup>193</sup>	45.951 <sup>57</sup>	27.67 <sup>95</sup>	62.713 <sup>50</sup>	22.37 <sup>75</sup>	29.579 <sup>53</sup>	38.36 <sup>157</sup>
35.4	40.47	78.92	45.894	28.62	62.663	23.12	29.526	39.93
Mittl. Ort	33.47	65.52	40.858	19.36	57.846	14.90	26.149	36.17
sec $\delta$ , tg $\delta$	2.055	+1.796	1.301	+0.833	1.229	+0.715	1.029	-0.244

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	150) λ Tauri		151) v Tauri		152) ε Persei		154) ο' Eridani	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	3 <sup>h</sup> 56 <sup>m</sup>	+12° 16'	3 <sup>h</sup> 59 <sup>m</sup>	+5° 46'	4 <sup>h</sup> 3 <sup>m</sup>	+47° 30'	4 <sup>h</sup> 8 <sup>m</sup>	-7° 2'
Jan. 0.4	25.748 <sup>59</sup>	18.55 <sup>45</sup>	4.507 <sup>58</sup>	27.08 <sup>74</sup>	5.704 <sup>96</sup>	29.49 <sup>121</sup>	7.326 <sup>60</sup>	26.42 <sup>129</sup>
10.4	25.689 <sup>95</sup>	18.10 <sup>45</sup>	4.449 <sup>93</sup>	26.34 <sup>68</sup>	5.608 <sup>150</sup>	30.70 <sup>95</sup>	7.266 <sup>96</sup>	27.71 <sup>111</sup>
20.3	25.594 <sup>126</sup>	17.65 <sup>43</sup>	4.356 <sup>124</sup>	25.66 <sup>59</sup>	5.458 <sup>196</sup>	31.65 <sup>65</sup>	7.170 <sup>127</sup>	28.82 <sup>91</sup>
30.3	25.468 <sup>151</sup>	17.22 <sup>42</sup>	4.232 <sup>149</sup>	25.07 <sup>51</sup>	5.262 <sup>233</sup>	32.30 <sup>32</sup>	7.043 <sup>152</sup>	29.73 <sup>70</sup>
Feb. 9.3	25.317 <sup>169</sup>	16.80 <sup>39</sup>	4.083 <sup>167</sup>	24.56 <sup>41</sup>	5.029 <sup>259</sup>	32.62 <sup>2</sup>	6.891 <sup>171</sup>	30.43 <sup>47</sup>
19.3	25.148 <sup>178</sup>	16.41 <sup>35</sup>	3.916 <sup>176</sup>	24.15 <sup>32</sup>	4.770 <sup>271</sup>	32.60 <sup>36</sup>	6.720 <sup>181</sup>	30.90 <sup>24</sup>
März 1.2	24.970 <sup>177</sup>	16.06 <sup>32</sup>	3.740 <sup>175</sup>	23.83 <sup>20</sup>	4.499 <sup>268</sup>	32.24 <sup>69</sup>	6.539 <sup>182</sup>	31.14 <sup>0</sup>
11.2	24.793 <sup>165</sup>	15.74 <sup>25</sup>	3.565 <sup>164</sup>	23.63 <sup>8</sup>	4.231 <sup>251</sup>	31.55 <sup>98</sup>	6.357 <sup>172</sup>	31.14 <sup>25</sup>
21.2	24.528 <sup>143</sup>	15.49 <sup>17</sup>	3.401 <sup>144</sup>	23.55 <sup>6</sup>	3.980 <sup>220</sup>	30.57 <sup>122</sup>	6.185 <sup>154</sup>	30.89 <sup>49</sup>
31.1	24.485 <sup>114</sup>	15.32 <sup>6</sup>	3.257 <sup>115</sup>	23.61 <sup>22</sup>	3.760 <sup>177</sup>	29.35 <sup>142</sup>	6.031 <sup>126</sup>	30.40 <sup>72</sup>
Apr. 10.1	24.371 <sup>77</sup>	15.26 <sup>5</sup>	3.142 <sup>79</sup>	23.83 <sup>37</sup>	3.583 <sup>124</sup>	27.93 <sup>153</sup>	5.905 <sup>93</sup>	29.68 <sup>97</sup>
20.1	24.294 <sup>34</sup>	15.31 <sup>21</sup>	3.063 <sup>38</sup>	24.20 <sup>55</sup>	3.459 <sup>64</sup>	26.40 <sup>159</sup>	5.812 <sup>52</sup>	28.71 <sup>119</sup>
30.1	24.260 <sup>12</sup>	15.52 <sup>36</sup>	3.025 <sup>7</sup>	24.75 <sup>73</sup>	3.395 <sup>1</sup>	24.81 <sup>156</sup>	5.760 <sup>9</sup>	27.52 <sup>140</sup>
Mai 10.0	24.272 <sup>58</sup>	15.88 <sup>53</sup>	3.032 <sup>52</sup>	25.48 <sup>90</sup>	3.396 <sup>68</sup>	23.25 <sup>151</sup>	5.751 <sup>36</sup>	26.12 <sup>160</sup>
20.0	24.330 <sup>105</sup>	16.41 <sup>70</sup>	3.084 <sup>98</sup>	26.38 <sup>107</sup>	3.464 <sup>132</sup>	21.74 <sup>137</sup>	5.787 <sup>80</sup>	24.52 <sup>176</sup>
30.0	24.435 <sup>148</sup>	17.11 <sup>85</sup>	3.182 <sup>140</sup>	27.45 <sup>122</sup>	3.596 <sup>193</sup>	20.37 <sup>117</sup>	5.867 <sup>124</sup>	22.76 <sup>188</sup>
Juni 9.0	24.583 <sup>187</sup>	17.96 <sup>100</sup>	3.322 <sup>180</sup>	28.67 <sup>134</sup>	3.789 <sup>249</sup>	19.20 <sup>97</sup>	5.991 <sup>164</sup>	20.88 <sup>197</sup>
18.9	24.770 <sup>222</sup>	18.96 <sup>112</sup>	3.502 <sup>213</sup>	30.01 <sup>143</sup>	4.038 <sup>297</sup>	18.23 <sup>71</sup>	6.155 <sup>198</sup>	18.91 <sup>201</sup>
28.9	24.992 <sup>249</sup>	20.08 <sup>121</sup>	3.715 <sup>241</sup>	31.44 <sup>148</sup>	4.335 <sup>338</sup>	17.52 <sup>44</sup>	6.353 <sup>228</sup>	16.90 <sup>198</sup>
Juli 8.9	25.241 <sup>271</sup>	21.29 <sup>127</sup>	3.956 <sup>263</sup>	32.92 <sup>149</sup>	4.673 <sup>369</sup>	17.08 <sup>16</sup>	6.581 <sup>251</sup>	14.92 <sup>191</sup>
18.8	25.512 <sup>286</sup>	22.56 <sup>128</sup>	4.219 <sup>279</sup>	34.41 <sup>145</sup>	5.042 <sup>392</sup>	16.92 <sup>10</sup>	6.832 <sup>269</sup>	13.01 <sup>178</sup>
28.8	25.798 <sup>294</sup>	23.84 <sup>125</sup>	4.498 <sup>287</sup>	35.86 <sup>137</sup>	5.434 <sup>407</sup>	17.02 <sup>37</sup>	7.101 <sup>280</sup>	11.23 <sup>158</sup>
Aug. 7.8	26.092 <sup>297</sup>	25.09 <sup>118</sup>	4.785 <sup>291</sup>	37.23 <sup>124</sup>	5.841 <sup>413</sup>	17.39 <sup>63</sup>	7.381 <sup>285</sup>	9.65 <sup>134</sup>
17.8	26.389 <sup>295</sup>	26.27 <sup>108</sup>	5.076 <sup>288</sup>	38.47 <sup>107</sup>	6.254 <sup>412</sup>	18.02 <sup>85</sup>	7.666 <sup>285</sup>	8.31 <sup>106</sup>
27.7	26.684 <sup>286</sup>	27.35 <sup>94</sup>	5.364 <sup>281</sup>	39.54 <sup>87</sup>	6.666 <sup>404</sup>	18.87 <sup>106</sup>	7.951 <sup>280</sup>	7.25 <sup>74</sup>
Sept. 6.7	26.970 <sup>274</sup>	28.29 <sup>79</sup>	5.645 <sup>270</sup>	40.41 <sup>64</sup>	7.070 <sup>390</sup>	19.93 <sup>124</sup>	8.231 <sup>269</sup>	6.51 <sup>39</sup>
16.7	27.244 <sup>259</sup>	29.08 <sup>59</sup>	5.915 <sup>254</sup>	41.05 <sup>41</sup>	7.460 <sup>371</sup>	21.17 <sup>141</sup>	8.500 <sup>256</sup>	6.12 <sup>74</sup>
26.7	27.503 <sup>241</sup>	29.67 <sup>42</sup>	6.169 <sup>237</sup>	41.46 <sup>17</sup>	7.831 <sup>348</sup>	22.58 <sup>151</sup>	8.756 <sup>238</sup>	6.08 <sup>30</sup>
Okt. 6.6	27.744 <sup>220</sup>	30.09 <sup>24</sup>	6.406 <sup>216</sup>	41.63 <sup>7</sup>	8.179 <sup>319</sup>	24.12 <sup>165</sup>	8.994 <sup>219</sup>	6.38 <sup>63</sup>
16.6	27.964 <sup>196</sup>	30.33 <sup>7</sup>	6.622 <sup>194</sup>	41.56 <sup>27</sup>	8.498 <sup>287</sup>	25.77 <sup>174</sup>	9.213 <sup>195</sup>	7.01 <sup>92</sup>
26.6	28.160 <sup>170</sup>	30.40 <sup>8</sup>	6.816 <sup>167</sup>	41.29 <sup>45</sup>	8.785 <sup>249</sup>	27.51 <sup>180</sup>	9.408 <sup>169</sup>	7.93 <sup>116</sup>
Nov. 5.5	28.330 <sup>143</sup>	30.32 <sup>19</sup>	6.983 <sup>139</sup>	40.84 <sup>60</sup>	9.034 <sup>207</sup>	29.31 <sup>183</sup>	9.577 <sup>140</sup>	9.09 <sup>135</sup>
15.5	28.473 <sup>110</sup>	30.13 <sup>29</sup>	7.122 <sup>109</sup>	40.24 <sup>70</sup>	9.241 <sup>161</sup>	31.14 <sup>182</sup>	9.717 <sup>109</sup>	10.44 <sup>146</sup>
25.5	28.583 <sup>77</sup>	29.84 <sup>36</sup>	7.231 <sup>76</sup>	39.54 <sup>76</sup>	9.402 <sup>109</sup>	32.96 <sup>178</sup>	9.826 <sup>75</sup>	11.90 <sup>153</sup>
Dez. 5.5	28.660 <sup>41</sup>	29.48 <sup>40</sup>	7.307 <sup>40</sup>	38.78 <sup>78</sup>	9.511 <sup>54</sup>	34.74 <sup>169</sup>	9.901 <sup>40</sup>	13.43 <sup>151</sup>
15.4	28.701 <sup>3</sup>	29.08 <sup>42</sup>	7.347 <sup>2</sup>	38.00 <sup>78</sup>	9.565 <sup>4</sup>	36.43 <sup>156</sup>	9.941 <sup>2</sup>	14.94 <sup>146</sup>
25.4	28.704 <sup>35</sup>	28.66 <sup>43</sup>	7.349 <sup>34</sup>	37.22 <sup>74</sup>	9.561 <sup>60</sup>	37.99 <sup>138</sup>	9.943 <sup>36</sup>	16.40 <sup>135</sup>
35.4	28.669	28.23	7.315	36.48	9.501	39.37	9.907	17.75
Mittl. Ort sec δ, tg δ	24.693 1.023	25.77 +0.218	3.497 1.005	35.85 +0.101	3.886 1.480	29.95 +1.092	6.344 1.008	14.70 -0.123



Mittlere Zeit Greenw.	155) $\alpha$ Horologii		156) $\alpha$ Reticuli		160) $\gamma$ Eridani		162) $\delta$ Tauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	4 <sup>h</sup> 11 <sup>m</sup>	-42° 28'	4 <sup>h</sup> 13 <sup>m</sup>	-62° 39'	4 <sup>h</sup> 14 <sup>m</sup>	-33° 58'	4 <sup>h</sup> 18 <sup>m</sup>	+17° 21'
Jan. 0.4	28.048 <sup>139</sup>	79.25 <sup>230</sup>	27.53 <sup>30</sup>	78.69 <sup>245</sup>	59.815 <sup>105</sup>	84.99 <sup>216</sup>	30.676 <sup>43</sup>	40.08 <sup>21</sup>
10.4	27.909 <sup>182</sup>	81.55 <sup>191</sup>	27.23 <sup>36</sup>	81.14 <sup>198</sup>	59.710 <sup>144</sup>	87.15 <sup>181</sup>	30.633 <sup>82</sup>	39.87 <sup>22</sup>
20.3	27.727 <sup>218</sup>	83.46 <sup>145</sup>	26.87 <sup>41</sup>	83.12 <sup>146</sup>	59.566 <sup>180</sup>	88.96 <sup>141</sup>	30.551 <sup>118</sup>	39.65 <sup>24</sup>
30.3	27.509 <sup>247</sup>	84.91 <sup>96</sup>	26.46 <sup>46</sup>	84.58 <sup>90</sup>	59.386 <sup>207</sup>	90.37 <sup>99</sup>	30.433 <sup>149</sup>	39.41 <sup>27</sup>
Feb. 9.3	27.262 <sup>267</sup>	85.87 <sup>47</sup>	26.00 <sup>48</sup>	85.48 <sup>33</sup>	59.179 <sup>227</sup>	91.36 <sup>53</sup>	30.284 <sup>170</sup>	39.14 <sup>29</sup>
19.3	26.995 <sup>277</sup>	86.34 <sup>3</sup>	25.52 <sup>48</sup>	85.81 <sup>23</sup>	58.952 <sup>238</sup>	91.89 <sup>8</sup>	30.114 <sup>183</sup>	38.85 <sup>31</sup>
März 1.2	26.718 <sup>275</sup>	86.31 <sup>53</sup>	25.04 <sup>49</sup>	85.58 <sup>79</sup>	58.714 <sup>238</sup>	91.97 <sup>38</sup>	29.931 <sup>186</sup>	38.54 <sup>32</sup>
11.2	26.443 <sup>264</sup>	85.78 <sup>101</sup>	24.55 <sup>46</sup>	84.79 <sup>131</sup>	58.476 <sup>228</sup>	91.59 <sup>81</sup>	29.745 <sup>178</sup>	38.22 <sup>31</sup>
21.2	26.179 <sup>239</sup>	84.77 <sup>147</sup>	24.09 <sup>42</sup>	83.48 <sup>181</sup>	58.248 <sup>208</sup>	90.78 <sup>124</sup>	29.567 <sup>158</sup>	37.91 <sup>29</sup>
31.2	25.940 <sup>208</sup>	83.30 <sup>187</sup>	23.67 <sup>38</sup>	81.67 <sup>224</sup>	58.040 <sup>179</sup>	89.54 <sup>162</sup>	29.409 <sup>131</sup>	37.62 <sup>25</sup>
Apr. 10.1	25.732 <sup>167</sup>	81.43 <sup>225</sup>	23.29 <sup>32</sup>	79.43 <sup>264</sup>	57.861 <sup>141</sup>	87.92 <sup>198</sup>	29.278 <sup>95</sup>	37.37 <sup>16</sup>
20.1	25.565 <sup>119</sup>	79.18 <sup>259</sup>	22.97 <sup>24</sup>	76.79 <sup>298</sup>	57.720 <sup>98</sup>	85.94 <sup>229</sup>	29.183 <sup>53</sup>	37.21 <sup>7</sup>
30.1	25.446 <sup>66</sup>	76.59 <sup>284</sup>	22.73 <sup>17</sup>	73.81 <sup>323</sup>	57.622 <sup>51</sup>	83.65 <sup>257</sup>	29.130 <sup>7</sup>	37.14 <sup>5</sup>
Mai 10.0	25.380 <sup>11</sup>	73.75 <sup>306</sup>	22.56 <sup>9</sup>	70.58 <sup>343</sup>	57.571 <sup>1</sup>	81.08 <sup>278</sup>	29.123 <sup>40</sup>	37.19 <sup>19</sup>
20.0	25.369 <sup>45</sup>	70.69 <sup>320</sup>	22.47 <sup>1</sup>	67.15 <sup>354</sup>	57.572 <sup>51</sup>	78.30 <sup>294</sup>	29.103 <sup>87</sup>	37.38 <sup>35</sup>
30.0	25.414 <sup>101</sup>	67.49 <sup>327</sup>	22.46 <sup>9</sup>	63.61 <sup>357</sup>	57.623 <sup>102</sup>	75.36 <sup>302</sup>	29.250 <sup>133</sup>	37.73 <sup>49</sup>
Juni 9.0	25.515 <sup>153</sup>	64.22 <sup>324</sup>	22.55 <sup>16</sup>	60.04 <sup>352</sup>	57.725 <sup>149</sup>	72.34 <sup>303</sup>	29.383 <sup>173</sup>	38.22 <sup>63</sup>
18.9	25.668 <sup>202</sup>	60.98 <sup>315</sup>	22.71 <sup>25</sup>	56.52 <sup>336</sup>	57.874 <sup>191</sup>	69.31 <sup>296</sup>	29.556 <sup>211</sup>	38.85 <sup>77</sup>
28.9	25.870 <sup>244</sup>	57.83 <sup>297</sup>	22.96 <sup>31</sup>	53.16 <sup>313</sup>	58.065 <sup>230</sup>	66.35 <sup>283</sup>	29.767 <sup>241</sup>	39.62 <sup>88</sup>
Juli 8.9	26.114 <sup>281</sup>	54.86 <sup>270</sup>	23.27 <sup>38</sup>	50.03 <sup>281</sup>	58.295 <sup>262</sup>	63.52 <sup>259</sup>	30.008 <sup>266</sup>	40.50 <sup>96</sup>
18.9	26.395 <sup>310</sup>	52.16 <sup>236</sup>	23.65 <sup>43</sup>	47.22 <sup>240</sup>	58.557 <sup>286</sup>	60.93 <sup>230</sup>	30.274 <sup>283</sup>	41.46 <sup>101</sup>
28.8	26.705 <sup>330</sup>	49.80 <sup>194</sup>	24.08 <sup>47</sup>	44.82 <sup>191</sup>	58.843 <sup>305</sup>	58.63 <sup>193</sup>	30.557 <sup>296</sup>	42.47 <sup>103</sup>
Aug. 7.8	27.035 <sup>342</sup>	47.86 <sup>145</sup>	24.55 <sup>50</sup>	42.91 <sup>158</sup>	59.148 <sup>315</sup>	56.70 <sup>149</sup>	30.853 <sup>301</sup>	43.50 <sup>100</sup>
17.8	27.377 <sup>350</sup>	46.41 <sup>93</sup>	25.05 <sup>51</sup>	41.53 <sup>78</sup>	59.463 <sup>318</sup>	55.21 <sup>101</sup>	31.154 <sup>302</sup>	44.50 <sup>95</sup>
27.7	27.727 <sup>346</sup>	45.48 <sup>36</sup>	25.56 <sup>52</sup>	40.75 <sup>16</sup>	59.781 <sup>316</sup>	54.20 <sup>49</sup>	31.456 <sup>297</sup>	45.45 <sup>87</sup>
Sept. 6.7	28.073 <sup>334</sup>	45.12 <sup>23</sup>	26.08 <sup>50</sup>	40.59 <sup>48</sup>	60.097 <sup>307</sup>	53.71 <sup>5</sup>	31.753 <sup>289</sup>	46.32 <sup>76</sup>
16.7	28.407 <sup>316</sup>	45.35 <sup>80</sup>	26.58 <sup>47</sup>	41.07 <sup>111</sup>	60.404 <sup>290</sup>	53.76 <sup>60</sup>	32.042 <sup>276</sup>	47.08 <sup>63</sup>
26.7	28.723 <sup>292</sup>	46.15 <sup>135</sup>	27.05 <sup>43</sup>	42.18 <sup>169</sup>	60.694 <sup>271</sup>	54.36 <sup>112</sup>	32.318 <sup>262</sup>	47.71 <sup>49</sup>
Okt. 6.6	29.015 <sup>261</sup>	47.50 <sup>126</sup>	27.48 <sup>38</sup>	43.87 <sup>223</sup>	60.965 <sup>244</sup>	55.48 <sup>159</sup>	32.580 <sup>242</sup>	48.20 <sup>36</sup>
16.6	29.276 <sup>226</sup>	49.36 <sup>230</sup>	27.86 <sup>31</sup>	46.10 <sup>269</sup>	61.209 <sup>214</sup>	57.07 <sup>202</sup>	32.822 <sup>222</sup>	48.56 <sup>24</sup>
26.6	29.502 <sup>184</sup>	51.66 <sup>264</sup>	28.18 <sup>24</sup>	48.79 <sup>303</sup>	61.423 <sup>180</sup>	59.09 <sup>235</sup>	33.044 <sup>196</sup>	48.80 <sup>12</sup>
Nov. 5.6	29.686 <sup>140</sup>	54.30 <sup>290</sup>	28.42 <sup>17</sup>	51.82 <sup>329</sup>	61.603 <sup>142</sup>	61.44 <sup>260</sup>	33.240 <sup>169</sup>	48.92 <sup>4</sup>
15.5	29.826 <sup>93</sup>	57.20 <sup>303</sup>	28.59 <sup>8</sup>	55.11 <sup>340</sup>	61.745 <sup>101</sup>	64.04 <sup>275</sup>	33.409 <sup>138</sup>	48.96 <sup>4</sup>
25.5	29.919 <sup>42</sup>	60.23 <sup>355</sup>	28.67 <sup>0</sup>	58.51 <sup>340</sup>	61.846 <sup>58</sup>	66.79 <sup>279</sup>	33.547 <sup>103</sup>	48.92 <sup>10</sup>
Dez. 5.5	29.961 <sup>8</sup>	63.28 <sup>296</sup>	28.67 <sup>10</sup>	61.91 <sup>326</sup>	61.904 <sup>14</sup>	69.58 <sup>273</sup>	33.650 <sup>65</sup>	48.82 <sup>12</sup>
15.4	29.953 <sup>60</sup>	66.24 <sup>278</sup>	28.57 <sup>17</sup>	65.17 <sup>303</sup>	61.918 <sup>33</sup>	72.31 <sup>257</sup>	33.715 <sup>25</sup>	48.70 <sup>16</sup>
25.4	29.893 <sup>108</sup>	69.02 <sup>249</sup>	28.40 <sup>25</sup>	68.20 <sup>268</sup>	61.885 <sup>76</sup>	74.88 <sup>233</sup>	33.740 <sup>16</sup>	48.54 <sup>17</sup>
35.4	29.785	71.51	28.15	70.88	61.809	77.21	33.724	48.37
Mittl. Ort sec $\delta$ , tg $\delta$	26.878 1.356	61.23 -0.916	25.69 2.178	58.59 -1.935	58.726 1.206	68.31 -0.674	29.502 1.048	47.03 +0.313



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	164) ε Tauri		168) α Tauri		171) α Doradus		169) ν Eridani	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	4 <sup>h</sup> 24 <sup>m</sup>	+19° 0'	4 <sup>h</sup> 31 <sup>m</sup>	+16° 21'	4 <sup>h</sup> 32 <sup>m</sup>	-55° 11'	4 <sup>h</sup> 32 <sup>m</sup>	-3° 30'
Jan. 0.4	8.291 <sup>38</sup>	32.26 <sup>12</sup>	31.200 <sup>32</sup>	12.82 <sup>25</sup>	21.611 <sup>194</sup>	91.33 <sup>263</sup>	29.303 <sup>39</sup>	43.23 <sup>121</sup>
10.4	8.253 <sup>80</sup>	32.14 <sup>15</sup>	31.168 <sup>73</sup>	12.57 <sup>26</sup>	21.417 <sup>251</sup>	93.96 <sup>221</sup>	29.264 <sup>78</sup>	44.44 <sup>107</sup>
20.4	8.173 <sup>116</sup>	31.99 <sup>18</sup>	31.095 <sup>111</sup>	12.31 <sup>26</sup>	21.166 <sup>300</sup>	96.17 <sup>172</sup>	29.186 <sup>112</sup>	45.51 <sup>90</sup>
30.3	8.057 <sup>147</sup>	31.81 <sup>21</sup>	30.984 <sup>142</sup>	12.05 <sup>26</sup>	20.866 <sup>339</sup>	97.89 <sup>121</sup>	29.074 <sup>143</sup>	46.41 <sup>71</sup>
Feb. 9.3	7.910 <sup>171</sup>	31.60 <sup>25</sup>	30.842 <sup>167</sup>	11.79 <sup>27</sup>	20.527 <sup>367</sup>	99.10 <sup>66</sup>	28.931 <sup>165</sup>	47.12 <sup>52</sup>
19.3	7.739 <sup>185</sup>	31.35 <sup>29</sup>	30.675 <sup>182</sup>	11.52 <sup>27</sup>	20.160 <sup>382</sup>	99.76 <sup>11</sup>	28.766 <sup>180</sup>	47.64 <sup>31</sup>
März 1.2	7.554 <sup>189</sup>	31.06 <sup>31</sup>	30.493 <sup>187</sup>	11.25 <sup>28</sup>	19.778 <sup>384</sup>	99.87 <sup>44</sup>	28.586 <sup>184</sup>	47.95 <sup>11</sup>
11.2	7.365 <sup>181</sup>	30.75 <sup>33</sup>	30.306 <sup>181</sup>	10.97 <sup>26</sup>	19.394 <sup>373</sup>	99.43 <sup>96</sup>	28.402 <sup>179</sup>	48.06 <sup>11</sup>
21.2	7.184 <sup>163</sup>	30.42 <sup>32</sup>	30.125 <sup>165</sup>	10.71 <sup>23</sup>	19.021 <sup>348</sup>	98.47 <sup>146</sup>	28.223 <sup>164</sup>	47.95 <sup>32</sup>
31.2	7.021 <sup>136</sup>	30.10 <sup>29</sup>	29.960 <sup>139</sup>	10.48 <sup>18</sup>	18.673 <sup>313</sup>	97.01 <sup>192</sup>	28.059 <sup>140</sup>	47.63 <sup>53</sup>
Apr. 10.1	6.885 <sup>100</sup>	29.81 <sup>24</sup>	29.821 <sup>104</sup>	10.30 <sup>11</sup>	18.360 <sup>265</sup>	95.09 <sup>234</sup>	27.919 <sup>108</sup>	47.10 <sup>75</sup>
20.1	6.785 <sup>58</sup>	29.57 <sup>15</sup>	29.717 <sup>64</sup>	10.19 <sup>2</sup>	18.095 <sup>210</sup>	92.75 <sup>270</sup>	27.811 <sup>70</sup>	46.35 <sup>95</sup>
30.1	6.727 <sup>12</sup>	29.42 <sup>3</sup>	29.653 <sup>19</sup>	10.17 <sup>10</sup>	17.885 <sup>148</sup>	90.05 <sup>300</sup>	27.741 <sup>28</sup>	45.40 <sup>116</sup>
Mai 10.1	6.715 <sup>35</sup>	29.39 <sup>9</sup>	29.634 <sup>27</sup>	10.27 <sup>23</sup>	17.737 <sup>81</sup>	87.05 <sup>324</sup>	27.713 <sup>16</sup>	44.24 <sup>134</sup>
20.0	6.750 <sup>83</sup>	29.48 <sup>22</sup>	29.661 <sup>74</sup>	10.50 <sup>37</sup>	17.656 <sup>12</sup>	83.81 <sup>339</sup>	27.729 <sup>61</sup>	42.90 <sup>150</sup>
30.0	6.833 <sup>129</sup>	29.70 <sup>38</sup>	29.735 <sup>119</sup>	10.87 <sup>51</sup>	17.644 <sup>58</sup>	80.42 <sup>348</sup>	27.790 <sup>103</sup>	41.40 <sup>164</sup>
Juni 9.0	6.962 <sup>171</sup>	30.08 <sup>52</sup>	29.854 <sup>162</sup>	11.38 <sup>64</sup>	17.702 <sup>126</sup>	76.94 <sup>348</sup>	27.893 <sup>144</sup>	39.76 <sup>174</sup>
18.9	7.133 <sup>208</sup>	30.60 <sup>66</sup>	30.016 <sup>198</sup>	12.02 <sup>77</sup>	17.828 <sup>190</sup>	73.46 <sup>337</sup>	28.037 <sup>180</sup>	38.02 <sup>180</sup>
28.9	7.341 <sup>239</sup>	31.26 <sup>77</sup>	30.214 <sup>230</sup>	12.79 <sup>86</sup>	18.018 <sup>250</sup>	70.09 <sup>320</sup>	28.217 <sup>212</sup>	36.22 <sup>179</sup>
Juli 8.9	7.580 <sup>264</sup>	32.03 <sup>86</sup>	30.444 <sup>256</sup>	13.65 <sup>93</sup>	18.268 <sup>302</sup>	66.89 <sup>292</sup>	28.429 <sup>237</sup>	34.43 <sup>176</sup>
18.9	7.844 <sup>284</sup>	32.89 <sup>92</sup>	30.700 <sup>276</sup>	14.58 <sup>97</sup>	18.570 <sup>346</sup>	63.97 <sup>256</sup>	28.666 <sup>257</sup>	32.67 <sup>165</sup>
28.8	8.128 <sup>296</sup>	33.81 <sup>95</sup>	30.976 <sup>289</sup>	15.55 <sup>98</sup>	18.916 <sup>382</sup>	61.41 <sup>213</sup>	28.923 <sup>272</sup>	31.02 <sup>150</sup>
Aug. 7.8	8.424 <sup>304</sup>	34.76 <sup>94</sup>	31.265 <sup>296</sup>	16.53 <sup>95</sup>	19.298 <sup>407</sup>	59.28 <sup>161</sup>	29.195 <sup>280</sup>	29.52 <sup>130</sup>
17.8	8.728 <sup>304</sup>	35.70 <sup>91</sup>	31.561 <sup>300</sup>	17.48 <sup>88</sup>	19.705 <sup>422</sup>	57.67 <sup>106</sup>	29.475 <sup>283</sup>	28.22 <sup>104</sup>
27.8	9.032 <sup>301</sup>	36.61 <sup>84</sup>	31.861 <sup>297</sup>	18.36 <sup>79</sup>	20.127 <sup>427</sup>	56.61 <sup>44</sup>	29.758 <sup>281</sup>	27.18 <sup>77</sup>
Sept. 6.7	9.333 <sup>293</sup>	37.45 <sup>74</sup>	32.158 <sup>290</sup>	19.15 <sup>67</sup>	20.554 <sup>420</sup>	56.17 <sup>18</sup>	30.039 <sup>275</sup>	26.41 <sup>45</sup>
16.7	9.626 <sup>281</sup>	38.19 <sup>64</sup>	32.448 <sup>280</sup>	19.82 <sup>54</sup>	20.974 <sup>404</sup>	56.35 <sup>81</sup>	30.314 <sup>265</sup>	25.96 <sup>12</sup>
26.7	9.907 <sup>267</sup>	38.83 <sup>52</sup>	32.728 <sup>267</sup>	20.36 <sup>39</sup>	21.378 <sup>376</sup>	57.16 <sup>140</sup>	30.579 <sup>252</sup>	25.84 <sup>19</sup>
Okt. 6.6	10.174 <sup>250</sup>	39.35 <sup>40</sup>	32.995 <sup>250</sup>	20.75 <sup>26</sup>	21.754 <sup>340</sup>	58.56 <sup>197</sup>	30.831 <sup>235</sup>	26.03 <sup>51</sup>
16.6	10.424 <sup>228</sup>	39.75 <sup>29</sup>	33.245 <sup>230</sup>	21.01 <sup>12</sup>	22.094 <sup>295</sup>	60.53 <sup>246</sup>	31.066 <sup>215</sup>	26.54 <sup>78</sup>
26.6	10.652 <sup>204</sup>	40.04 <sup>19</sup>	33.475 <sup>208</sup>	21.13 <sup>1</sup>	22.389 <sup>242</sup>	62.99 <sup>285</sup>	31.281 <sup>191</sup>	27.32 <sup>102</sup>
Nov. 5.6	10.856 <sup>176</sup>	40.23 <sup>10</sup>	33.683 <sup>180</sup>	21.14 <sup>8</sup>	22.631 <sup>183</sup>	65.84 <sup>315</sup>	31.472 <sup>165</sup>	28.34 <sup>120</sup>
15.5	11.032 <sup>145</sup>	40.33 <sup>4</sup>	33.863 <sup>150</sup>	21.06 <sup>15</sup>	22.814 <sup>118</sup>	68.99 <sup>332</sup>	31.637 <sup>135</sup>	29.54 <sup>133</sup>
25.5	11.177 <sup>110</sup>	40.37 <sup>0</sup>	34.013 <sup>115</sup>	20.91 <sup>20</sup>	22.932 <sup>51</sup>	72.31 <sup>337</sup>	31.772 <sup>102</sup>	30.87 <sup>139</sup>
Dez. 5.5	11.287 <sup>72</sup>	40.37 <sup>4</sup>	34.128 <sup>78</sup>	20.71 <sup>22</sup>	22.983 <sup>18</sup>	75.68 <sup>330</sup>	31.874 <sup>65</sup>	32.26 <sup>140</sup>
15.5	11.359 <sup>31</sup>	40.33 <sup>6</sup>	34.206 <sup>37</sup>	20.49 <sup>23</sup>	22.965 <sup>87</sup>	78.98 <sup>312</sup>	31.939 <sup>26</sup>	33.66 <sup>136</sup>
25.4	11.390 <sup>11</sup>	40.27 <sup>8</sup>	34.243 <sup>5</sup>	20.26 <sup>23</sup>	22.878 <sup>153</sup>	82.10 <sup>283</sup>	31.965 <sup>14</sup>	35.02 <sup>126</sup>
35.4	11.379	40.19	34.238	20.03	22.725	84.93	31.951	36.28
Mittl. Ort sec δ, tr δ	7.084 1.058	39.10 +0.345	30.004 1.042	20.44 +0.294	19.943 1.752	72.73 -1.439	28.226 1.002	31.96 -0.061

Mittlere Zeit Greenw.	172) 53 Eridani		174) $\tau$ Tauri		173) Gr. 848		175) 4 Camelop.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	4 <sup>h</sup> 34 <sup>m</sup>	-14 <sup>°</sup> 27'	4 <sup>h</sup> 37 <sup>m</sup>	+22 <sup>°</sup> 48'	4 <sup>h</sup> 38 <sup>m</sup>	+75 <sup>°</sup> 47'	4 <sup>h</sup> 41 <sup>m</sup>	+56 <sup>°</sup> 37'
Jan. 0.4	40.249 <sup>49</sup>	26.39 <sup>169</sup>	38.563 <sup>28</sup>	30.87 <sup>9</sup>	32.06 <sup>28</sup>	73.77 <sup>260</sup>	37.274 <sup>77</sup>	17.73 <sup>183</sup>
10.4	40.200 <sup>88</sup>	28.08 <sup>146</sup>	38.535 <sup>72</sup>	30.96 <sup>4</sup>	31.78 <sup>44</sup>	76.37 <sup>227</sup>	37.197 <sup>149</sup>	19.56 <sup>158</sup>
20.4	40.112 <sup>124</sup>	29.54 <sup>121</sup>	38.463 <sup>112</sup>	31.00 <sup>0</sup>	31.34 <sup>59</sup>	78.64 <sup>186</sup>	37.048 <sup>215</sup>	21.14 <sup>127</sup>
30.3	39.988 <sup>154</sup>	30.75 <sup>93</sup>	38.351 <sup>146</sup>	31.00 <sup>7</sup>	30.75 <sup>69</sup>	80.50 <sup>138</sup>	36.833 <sup>272</sup>	22.41 <sup>93</sup>
Feb. 9.3	39.834 <sup>176</sup>	31.68 <sup>63</sup>	38.205 <sup>172</sup>	30.93 <sup>14</sup>	30.06 <sup>78</sup>	81.88 <sup>85</sup>	36.561 <sup>313</sup>	23.34 <sup>53</sup>
19.3	39.658 <sup>191</sup>	32.31 <sup>33</sup>	38.033 <sup>190</sup>	30.79 <sup>21</sup>	29.28 <sup>82</sup>	82.73 <sup>29</sup>	36.248 <sup>339</sup>	23.87 <sup>12</sup>
März 1.3	39.467 <sup>195</sup>	32.64 <sup>1</sup>	37.843 <sup>196</sup>	30.58 <sup>28</sup>	28.46 <sup>83</sup>	83.02 <sup>28</sup>	35.909 <sup>348</sup>	23.99 <sup>29</sup>
11.2	39.272 <sup>191</sup>	32.65 <sup>29</sup>	37.647 <sup>190</sup>	30.30 <sup>34</sup>	27.63 <sup>81</sup>	82.74 <sup>82</sup>	35.561 <sup>338</sup>	23.70 <sup>69</sup>
21.2	39.081 <sup>175</sup>	32.36 <sup>60</sup>	37.457 <sup>174</sup>	29.96 <sup>37</sup>	26.82 <sup>74</sup>	81.92 <sup>132</sup>	35.223 <sup>310</sup>	23.01 <sup>105</sup>
31.2	38.906 <sup>152</sup>	31.76 <sup>89</sup>	37.283 <sup>148</sup>	29.59 <sup>39</sup>	26.08 <sup>64</sup>	80.60 <sup>176</sup>	34.913 <sup>268</sup>	21.96 <sup>137</sup>
Apr. 10.1	38.754 <sup>119</sup>	30.87 <sup>117</sup>	37.135 <sup>112</sup>	29.20 <sup>37</sup>	25.44 <sup>52</sup>	78.84 <sup>212</sup>	34.645 <sup>211</sup>	20.59 <sup>161</sup>
20.1	38.635 <sup>82</sup>	29.70 <sup>143</sup>	37.023 <sup>71</sup>	28.83 <sup>32</sup>	24.92 <sup>38</sup>	76.72 <sup>242</sup>	34.434 <sup>143</sup>	18.98 <sup>180</sup>
30.1	38.553 <sup>40</sup>	28.27 <sup>167</sup>	36.952 <sup>25</sup>	28.51 <sup>25</sup>	24.54 <sup>22</sup>	74.30 <sup>259</sup>	34.291 <sup>70</sup>	17.18 <sup>190</sup>
Mai 10.1	38.513 <sup>5</sup>	26.60 <sup>189</sup>	36.927 <sup>23</sup>	28.26 <sup>14</sup>	24.32 <sup>5</sup>	71.71 <sup>169</sup>	34.221 <sup>8</sup>	15.28 <sup>193</sup>
20.0	38.518 <sup>49</sup>	24.71 <sup>205</sup>	36.950 <sup>72</sup>	28.12 <sup>2</sup>	24.27 <sup>12</sup>	69.02 <sup>169</sup>	34.229 <sup>86</sup>	13.35 <sup>189</sup>
30.0	38.567 <sup>94</sup>	22.66 <sup>219</sup>	37.022 <sup>119</sup>	28.10 <sup>12</sup>	24.39 <sup>28</sup>	66.33 <sup>259</sup>	34.315 <sup>162</sup>	11.46 <sup>179</sup>
Juni 9.0	38.661 <sup>136</sup>	20.47 <sup>226</sup>	37.141 <sup>163</sup>	28.22 <sup>25</sup>	24.67 <sup>43</sup>	63.74 <sup>245</sup>	34.477 <sup>233</sup>	9.67 <sup>164</sup>
19.0	38.797 <sup>173</sup>	18.21 <sup>228</sup>	37.304 <sup>201</sup>	28.47 <sup>38</sup>	25.10 <sup>58</sup>	61.29 <sup>220</sup>	34.710 <sup>298</sup>	8.03 <sup>143</sup>
28.9	38.970 <sup>206</sup>	15.93 <sup>224</sup>	37.505 <sup>235</sup>	28.85 <sup>51</sup>	25.68 <sup>70</sup>	59.09 <sup>192</sup>	35.008 <sup>354</sup>	6.60 <sup>119</sup>
Juli 8.9	39.176 <sup>233</sup>	13.69 <sup>214</sup>	37.740 <sup>262</sup>	29.36 <sup>62</sup>	26.38 <sup>81</sup>	57.17 <sup>159</sup>	35.362 <sup>401</sup>	5.41 <sup>92</sup>
18.9	39.409 <sup>256</sup>	11.55 <sup>196</sup>	38.002 <sup>283</sup>	29.98 <sup>70</sup>	27.19 <sup>91</sup>	55.58 <sup>121</sup>	35.763 <sup>438</sup>	4.49 <sup>64</sup>
28.8	39.665 <sup>271</sup>	9.59 <sup>173</sup>	38.285 <sup>298</sup>	30.68 <sup>76</sup>	28.10 <sup>96</sup>	54.37 <sup>82</sup>	36.201 <sup>467</sup>	3.85 <sup>34</sup>
Aug. 7.8	39.936 <sup>281</sup>	7.86 <sup>145</sup>	38.583 <sup>307</sup>	31.44 <sup>77</sup>	29.06 <sup>102</sup>	53.55 <sup>41</sup>	36.668 <sup>485</sup>	3.51 <sup>5</sup>
17.8	40.217 <sup>285</sup>	6.41 <sup>110</sup>	38.890 <sup>311</sup>	32.21 <sup>78</sup>	30.08 <sup>105</sup>	53.14 <sup>1</sup>	37.153 <sup>495</sup>	3.46 <sup>25</sup>
27.8	40.502 <sup>285</sup>	5.31 <sup>72</sup>	39.201 <sup>309</sup>	32.99 <sup>75</sup>	31.13 <sup>105</sup>	53.15 <sup>43</sup>	37.648 <sup>497</sup>	3.71 <sup>53</sup>
Sept. 6.7	40.787 <sup>279</sup>	4.59 <sup>32</sup>	39.510 <sup>304</sup>	33.74 <sup>70</sup>	32.18 <sup>105</sup>	53.58 <sup>84</sup>	38.145 <sup>492</sup>	4.24 <sup>81</sup>
16.7	41.066 <sup>268</sup>	4.27 <sup>10</sup>	39.814 <sup>294</sup>	34.44 <sup>62</sup>	33.23 <sup>102</sup>	54.42 <sup>124</sup>	38.637 <sup>477</sup>	5.05 <sup>106</sup>
26.7	41.334 <sup>255</sup>	4.37 <sup>51</sup>	40.108 <sup>281</sup>	35.06 <sup>55</sup>	34.25 <sup>97</sup>	55.66 <sup>161</sup>	39.114 <sup>459</sup>	6.11 <sup>130</sup>
Okt. 6.7	41.589 <sup>237</sup>	4.88 <sup>90</sup>	40.389 <sup>265</sup>	35.61 <sup>47</sup>	35.22 <sup>91</sup>	57.27 <sup>197</sup>	39.573 <sup>431</sup>	7.41 <sup>151</sup>
16.6	41.826 <sup>216</sup>	5.78 <sup>125</sup>	40.654 <sup>245</sup>	36.08 <sup>39</sup>	36.13 <sup>82</sup>	59.24 <sup>228</sup>	40.004 <sup>398</sup>	8.92 <sup>172</sup>
26.6	42.042 <sup>192</sup>	7.03 <sup>155</sup>	40.899 <sup>222</sup>	36.47 <sup>32</sup>	36.95 <sup>73</sup>	61.52 <sup>256</sup>	40.402 <sup>357</sup>	10.64 <sup>188</sup>
Nov. 5.6	42.234 <sup>162</sup>	8.58 <sup>177</sup>	41.121 <sup>195</sup>	36.79 <sup>27</sup>	37.68 <sup>60</sup>	64.08 <sup>279</sup>	40.759 <sup>309</sup>	12.52 <sup>202</sup>
15.5	42.396 <sup>131</sup>	10.35 <sup>192</sup>	41.316 <sup>163</sup>	37.06 <sup>23</sup>	38.28 <sup>47</sup>	66.87 <sup>295</sup>	41.068 <sup>254</sup>	14.54 <sup>212</sup>
25.5	42.527 <sup>96</sup>	12.27 <sup>199</sup>	41.479 <sup>127</sup>	37.29 <sup>20</sup>	38.75 <sup>32</sup>	69.82 <sup>303</sup>	41.322 <sup>190</sup>	16.66 <sup>217</sup>
Dez. 5.5	42.623 <sup>57</sup>	14.26 <sup>199</sup>	41.606 <sup>88</sup>	37.49 <sup>17</sup>	39.07 <sup>15</sup>	72.85 <sup>305</sup>	41.512 <sup>120</sup>	18.83 <sup>217</sup>
15.5	42.680 <sup>18</sup>	16.25 <sup>192</sup>	41.694 <sup>46</sup>	37.66 <sup>15</sup>	39.22 <sup>2</sup>	75.90 <sup>206</sup>	41.632 <sup>47</sup>	21.00 <sup>210</sup>
25.4	42.698 <sup>23</sup>	18.17 <sup>177</sup>	41.740 <sup>0</sup>	37.81 <sup>14</sup>	39.20 <sup>17</sup>	78.86 <sup>278</sup>	41.679 <sup>29</sup>	23.10 <sup>197</sup>
35.4	42.675	19.94	41.740	37.95	39.03	81.64	41.650	25.07
Mittl. Ort sec $\delta$ , tg $\delta$	39.169 1.033	13.22 -0.258	37.277 1.085	37.59 +0.421	26.53 4.078	73.84 +3.953	34.900 1.818	19.78 +1.518

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	178) $\gamma$ Camelop.		180) $\pi^5$ Orionis		181) $\iota$ Aurigae		183) $\epsilon$ Aurigae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$4^h 46^m$	$+66^\circ 12'$	$4^h 50^m$	$+2^\circ 18'$	$4^h 51^m$	$+33^\circ 2'$	$4^h 56^m$	$+43^\circ 42'$
Jan. 0.4	26.29 <sub>13</sub>	49.06 <sub>217</sub>	15.489 <sub>21</sub>	45.81 <sub>98</sub>	60.073 <sub>19</sub>	38.20 <sub>65</sub>	28.154 <sub>25</sub>	34.31 <sub>123</sub>
10.4	26.16 <sub>22</sub>	51.33 <sub>200</sub>	15.468 <sub>62</sub>	44.83 <sub>88</sub>	60.054 <sub>60</sub>	38.85 <sub>57</sub>	28.129 <sub>83</sub>	35.54 <sub>110</sub>
20.4	25.94 <sub>31</sub>	53.33 <sub>165</sub>	15.406 <sub>100</sub>	43.95 <sub>75</sub>	59.985 <sub>115</sub>	39.42 <sub>45</sub>	28.046 <sub>137</sub>	36.64 <sub>90</sub>
30.3	25.63 <sub>39</sub>	54.98 <sub>124</sub>	15.306 <sub>133</sub>	43.20 <sub>60</sub>	59.870 <sub>156</sub>	39.87 <sub>30</sub>	27.909 <sub>183</sub>	37.54 <sub>67</sub>
Feb. 9.3	25.24 <sub>44</sub>	56.22 <sub>78</sub>	15.173 <sub>158</sub>	42.60 <sub>47</sub>	59.714 <sub>187</sub>	40.17 <sub>14</sub>	27.726 <sub>221</sub>	38.21 <sub>42</sub>
19.3	24.80 <sub>48</sub>	57.00 <sub>29</sub>	15.015 <sub>177</sub>	42.13 <sub>32</sub>	59.527 <sub>208</sub>	40.31 <sub>3</sub>	27.505 <sub>245</sub>	38.63 <sub>12</sub>
März 1.3	24.32 <sub>49</sub>	57.29 <sub>20</sub>	14.838 <sub>184</sub>	41.81 <sub>17</sub>	59.319 <sub>218</sub>	40.28 <sub>22</sub>	27.260 <sub>257</sub>	38.75 <sub>16</sub>
11.2	23.83 <sub>47</sub>	57.09 <sub>69</sub>	14.654 <sub>181</sub>	41.64 <sub>1</sub>	59.101 <sub>214</sub>	40.06 <sub>38</sub>	27.003 <sub>254</sub>	38.59 <sub>44</sub>
21.2	23.36 <sub>45</sub>	56.40 <sub>112</sub>	14.473 <sub>169</sub>	41.63 <sub>15</sub>	58.887 <sub>199</sub>	39.68 <sub>53</sub>	26.749 <sub>237</sub>	38.15 <sub>69</sub>
31.2	22.91 <sub>38</sub>	55.28 <sub>152</sub>	14.304 <sub>147</sub>	41.78 <sub>31</sub>	58.688 <sub>173</sub>	39.15 <sub>65</sub>	26.512 <sub>226</sub>	37.46 <sub>91</sub>
Apr. 10.2	22.53 <sub>31</sub>	53.76 <sub>184</sub>	14.157 <sub>117</sub>	42.09 <sub>48</sub>	58.515 <sub>136</sub>	38.50 <sub>73</sub>	26.306 <sub>166</sub>	36.55 <sub>109</sub>
20.1	22.22 <sub>23</sub>	51.92 <sub>208</sub>	14.040 <sub>81</sub>	42.57 <sub>65</sub>	58.379 <sub>92</sub>	37.77 <sub>76</sub>	26.140 <sub>116</sub>	35.46 <sub>120</sub>
30.1	21.99 <sub>12</sub>	49.84 <sub>225</sub>	13.959 <sub>40</sub>	43.22 <sub>82</sub>	58.287 <sub>43</sub>	37.01 <sub>76</sub>	26.024 <sub>59</sub>	34.26 <sub>128</sub>
Mai 10.1	21.87 <sub>2</sub>	47.59 <sub>232</sub>	13.919 <sub>4</sub>	44.04 <sub>99</sub>	58.244 <sub>10</sub>	36.25 <sub>72</sub>	25.965 <sub>0</sub>	32.98 <sub>128</sub>
20.0	21.85 <sub>8</sub>	45.27 <sub>232</sub>	13.923 <sub>48</sub>	45.03 <sub>114</sub>	58.254 <sub>62</sub>	35.53 <sub>64</sub>	25.965 <sub>61</sub>	31.70 <sub>123</sub>
30.0	21.93 <sub>18</sub>	42.95 <sub>225</sub>	13.971 <sub>92</sub>	46.17 <sub>128</sub>	58.316 <sub>114</sub>	34.89 <sub>53</sub>	26.026 <sub>119</sub>	30.47 <sub>115</sub>
Juni 9.0	22.11 <sub>28</sub>	40.70 <sub>209</sub>	14.063 <sub>132</sub>	47.45 <sub>138</sub>	58.430 <sub>161</sub>	34.36 <sub>40</sub>	26.145 <sub>175</sub>	29.32 <sub>102</sub>
19.0	22.39 <sub>37</sub>	38.61 <sub>189</sub>	14.195 <sub>169</sub>	48.83 <sub>145</sub>	58.591 <sub>206</sub>	33.96 <sub>25</sub>	26.320 <sub>225</sub>	28.30 <sub>86</sub>
28.9	22.76 <sub>45</sub>	36.72 <sub>164</sub>	14.364 <sub>202</sub>	50.28 <sub>149</sub>	58.797 <sub>242</sub>	33.71 <sub>10</sub>	26.545 <sub>270</sub>	27.44 <sub>69</sub>
Juli 8.9	23.21 <sub>51</sub>	35.08 <sub>134</sub>	14.566 <sub>228</sub>	51.77 <sub>148</sub>	59.039 <sub>275</sub>	33.61 <sub>4</sub>	26.815 <sub>307</sub>	26.75 <sub>49</sub>
18.9	23.72 <sub>57</sub>	33.74 <sub>102</sub>	14.794 <sub>250</sub>	53.25 <sub>142</sub>	59.314 <sub>300</sub>	33.65 <sub>19</sub>	27.122 <sub>337</sub>	26.26 <sub>29</sub>
28.9	24.29 <sub>61</sub>	32.72 <sub>67</sub>	15.044 <sub>266</sub>	54.67 <sub>132</sub>	59.614 <sub>319</sub>	33.84 <sub>31</sub>	27.459 <sub>360</sub>	25.97 <sub>9</sub>
Aug. 7.8	24.90 <sub>64</sub>	32.05 <sub>33</sub>	15.310 <sub>277</sub>	55.99 <sub>116</sub>	59.933 <sub>330</sub>	34.15 <sub>42</sub>	27.819 <sub>376</sub>	25.88 <sub>10</sub>
17.8	25.54 <sub>65</sub>	31.72 <sub>4</sub>	15.587 <sub>282</sub>	57.15 <sub>98</sub>	60.263 <sub>338</sub>	34.57 <sub>51</sub>	28.195 <sub>385</sub>	25.98 <sub>28</sub>
27.8	26.19 <sub>66</sub>	31.76 <sub>39</sub>	15.869 <sub>283</sub>	58.13 <sub>74</sub>	60.601 <sub>338</sub>	35.08 <sub>58</sub>	28.580 <sub>388</sub>	26.26 <sub>45</sub>
Sept. 6.7	26.85 <sub>66</sub>	32.15 <sub>74</sub>	16.152 <sub>280</sub>	58.87 <sub>49</sub>	60.939 <sub>336</sub>	35.66 <sub>64</sub>	28.968 <sub>385</sub>	26.71 <sub>60</sub>
16.7	27.51 <sub>64</sub>	32.89 <sub>107</sub>	16.432 <sub>272</sub>	59.36 <sub>21</sub>	61.275 <sub>327</sub>	36.30 <sub>67</sub>	29.353 <sub>378</sub>	27.31 <sub>75</sub>
26.7	28.15 <sub>62</sub>	33.96 <sub>139</sub>	16.704 <sub>262</sub>	59.57 <sub>5</sub>	61.602 <sub>316</sub>	36.97 <sub>69</sub>	29.731 <sub>365</sub>	28.06 <sub>88</sub>
Okt. 6.7	28.77 <sub>58</sub>	35.35 <sub>169</sub>	16.966 <sub>247</sub>	59.52 <sub>32</sub>	61.918 <sub>301</sub>	37.66 <sub>72</sub>	30.096 <sub>348</sub>	28.94 <sub>100</sub>
16.6	29.35 <sub>54</sub>	37.04 <sub>196</sub>	17.213 <sub>231</sub>	59.20 <sub>57</sub>	62.219 <sub>281</sub>	38.38 <sub>73</sub>	30.444 <sub>326</sub>	29.94 <sub>111</sub>
26.6	29.89 <sub>47</sub>	39.00 <sub>219</sub>	17.444 <sub>209</sub>	58.63 <sub>76</sub>	62.500 <sub>257</sub>	39.11 <sub>75</sub>	30.770 <sub>299</sub>	31.05 <sub>121</sub>
Nov. 5.6	30.36 <sub>41</sub>	41.19 <sub>239</sub>	17.653 <sub>185</sub>	57.87 <sub>93</sub>	62.757 <sub>228</sub>	39.86 <sub>76</sub>	31.069 <sub>264</sub>	32.26 <sub>129</sub>
15.6	30.77 <sub>34</sub>	43.58 <sub>253</sub>	17.838 <sub>155</sub>	56.94 <sub>104</sub>	62.985 <sub>194</sub>	40.62 <sub>78</sub>	31.333 <sub>226</sub>	33.55 <sub>136</sub>
25.5	31.11 <sub>24</sub>	46.11 <sub>262</sub>	17.993 <sub>123</sub>	55.90 <sub>111</sub>	63.179 <sub>156</sub>	41.40 <sub>78</sub>	31.559 <sub>179</sub>	34.91 <sub>141</sub>
Dez. 5.5	31.35 <sub>15</sub>	48.73 <sub>264</sub>	18.116 <sub>87</sub>	54.79 <sub>111</sub>	63.335 <sub>111</sub>	42.18 <sub>79</sub>	31.738 <sub>128</sub>	36.32 <sub>142</sub>
15.5	31.50 <sub>5</sub>	51.37 <sub>257</sub>	18.203 <sub>47</sub>	53.68 <sub>109</sub>	63.446 <sub>64</sub>	42.97 <sub>76</sub>	31.866 <sub>72</sub>	37.74 <sub>139</sub>
25.4	31.55 <sub>6</sub>	53.94 <sub>243</sub>	18.250 <sub>5</sub>	52.59 <sub>102</sub>	63.510 <sub>13</sub>	43.73 <sub>72</sub>	31.938 <sub>13</sub>	39.13 <sub>133</sub>
35.4	31.49	56.37	18.255	51.57	63.523	44.45	31.951	40.46
Mittl. Ort	22.98	50.54	14.344	56.29	58.593	44.01	26.389	38.96
sec $\delta$ , tg $\delta$	2.479	+2.269	1.001	+0.040	1.193	+0.651	1.384	+0.956



Mittlere Zeit Greenw.	182) $\iota$ Camelop.		184) $\epsilon$ Tauri		185) $\gamma$ Aurigae		186) $\epsilon$ Leporis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	4 <sup>h</sup> 56 <sup>m</sup>	+60° 19'	4 <sup>h</sup> 58 <sup>m</sup>	+21° 28'	5 <sup>h</sup> 1 <sup>m</sup>	+41° 7'	5 <sup>h</sup> 2 <sup>m</sup>	-22° 28'
Jan. 0.4	36.34	51.01 <sub>206</sub>	30.800	44.76	8.408	49.27	13.280	38.63
10.4	36.27	53.07 <sub>184</sub>	30.792	44.78	8.392	50.38	13.242	40.76
20.4	36.12	54.91 <sub>154</sub>	30.737	44.80	8.319	51.37	13.160	42.64
30.3	35.89	56.45 <sub>118</sub>	30.640	44.80	8.194	52.19	13.038	44.22
Feb. 9.3	35.60	57.63 <sub>78</sub>	30.506	44.76	8.023	52.81	12.881	45.46
19.3	35.26	58.41	30.342	44.68	7.816	53.20	12.697	46.34
März 1.3	34.88	58.75 <sub>34</sub>	30.157	44.55	7.582	53.33	12.493	46.84
11.2	34.49	58.65 <sub>10</sub>	29.962	44.36	7.337	53.20	12.281	46.97
21.2	34.10	58.12 <sub>53</sub>	29.769	44.13	7.094	52.82	12.069	46.73
31.2	33.74	57.17 <sub>95</sub>	29.588	43.87	6.866	52.21	11.869	46.12
Apr. 10.2	33.43	55.88 <sub>160</sub>	29.430	43.60	6.666	51.40	11.688	45.15
20.1	33.17	54.28 <sub>183</sub>	29.304	43.33	6.504	50.43	11.537	43.85
30.1	32.98	52.45 <sub>198</sub>	29.217	43.11	6.390	49.35	11.422	42.24
Mai 10.1	32.87	50.47 <sub>206</sub>	29.173	42.95	6.329	48.21	11.348	40.36
20.0	32.84	48.41 <sub>207</sub>	29.177	42.87	6.326	47.07	11.317	38.22
30.0	32.91	46.34 <sub>201</sub>	29.228	42.89	6.380	45.97	11.333	35.90
Juni 9.0	33.05	44.33 <sub>187</sub>	29.325	43.03	6.491	44.95	11.394	33.43
19.0	33.28	42.46 <sub>170</sub>	29.467	43.28	6.655	44.06	11.498	30.87
28.9	33.57	40.76 <sub>148</sub>	29.648	43.65	6.869	43.31	11.643	28.28
Juli 8.9	33.94	39.28 <sub>121</sub>	29.864	44.13	7.125	42.73	11.825	25.75
18.9	34.36	38.07 <sub>94</sub>	30.109	44.69	7.419	42.32	12.039	23.34
28.9	34.82	37.13 <sub>63</sub>	30.377	45.31	7.741	42.09	12.280	21.12
Aug. 7.8	35.32	36.50 <sub>33</sub>	30.664	45.98	8.085	42.04	12.541	19.16
17.8	35.85	36.17 <sub>1</sub>	30.961	46.65	8.446	42.15	12.818	17.53
27.8	36.39	36.16 <sub>29</sub>	31.266	47.30	8.815	42.43	13.105	16.29
Sept. 6.7	36.94	36.45 <sub>60</sub>	31.573	47.91	9.189	42.85	13.397	15.48
16.7	37.49	37.05 <sub>89</sub>	31.877	48.46	9.561	43.40	13.687	15.13
26.7	38.02	37.94 <sub>116</sub>	32.175	48.92	9.926	44.06	13.972	15.27
Okt. 6.7	38.54	39.10 <sub>143</sub>	32.463	49.30	10.280	44.84	14.247	15.88
16.6	39.03	40.53 <sub>167</sub>	32.739	49.59	10.619	45.72	14.507	16.96
26.6	39.49	42.20 <sub>188</sub>	32.997	49.80	10.937	46.68	14.747	18.45
Nov. 5.6	39.91	44.08 <sub>207</sub>	33.235	49.94	11.230	47.73	14.964	20.30
15.6	40.27	46.15 <sub>220</sub>	33.448	50.03	11.491	48.86	15.152	22.42
25.5	40.57	48.35 <sub>230</sub>	33.631	50.09	11.714	50.05	15.307	24.75
Dez. 5.5	40.80	50.65 <sub>233</sub>	33.779	50.13	11.895	51.28	15.426	27.19
15.5	40.96	52.98 <sub>231</sub>	33.889	50.18	12.026	52.54	15.503	29.64
25.4	41.04	55.29 <sub>219</sub>	33.955	50.22	12.103	53.78	15.538	32.03
35.4	41.02	57.48	33.976	50.27	12.125	54.97	15.529	34.26
Mittl. Ort sec $\delta$ , tg $\delta$	33.67	53.86	29.495	52.54	6.720	54.54	12.063	24.70
	2.020	+1.756	1.075	+0.394	1.328	+0.873	1.082	-0.414

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	188) $\beta$ Eridani		192) $\mu$ Aurigae		191) 19 H. Camelop.		194) $\beta$ Orionis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	5 <sup>h</sup> 4 <sup>m</sup>	-5° 11'	5 <sup>h</sup> 8 <sup>m</sup>	+38° 23'	5 <sup>h</sup> 9 <sup>m</sup>	+79° 8'	5 <sup>h</sup> 10 <sup>m</sup>	-8° 17'
Jan. 0.4	4.981 <sub>15</sub>	17.41 <sub>140</sub>	11.011 <sub>5</sub>	34.99 <sub>98</sub>	57.24 <sub>24</sub>	44.08 <sub>286</sub>	51.371 <sub>13</sub>	34.44 <sub>157</sub>
10.4	4.966 <sub>58</sub>	18.81 <sub>123</sub>	11.006 <sub>61</sub>	35.97 <sub>88</sub>	57.00 <sub>47</sub>	46.94 <sub>262</sub>	51.358 <sub>55</sub>	36.01 <sub>139</sub>
20.4	4.908 <sub>96</sub>	20.04 <sub>105</sub>	10.945 <sub>113</sub>	36.85 <sub>75</sub>	56.53 <sub>67</sub>	49.56 <sub>226</sub>	51.303 <sub>95</sub>	37.40 <sub>118</sub>
30.4	4.812 <sub>131</sub>	21.09 <sub>85</sub>	10.832 <sub>158</sub>	37.60 <sub>57</sub>	55.86 <sub>84</sub>	51.82 <sub>182</sub>	51.208 <sub>131</sub>	38.58 <sub>95</sub>
Feb. 9.3	4.681 <sub>159</sub>	21.94 <sub>62</sub>	10.674 <sub>195</sub>	38.17 <sub>38</sub>	55.02 <sub>97</sub>	53.64 <sub>132</sub>	51.077 <sub>159</sub>	39.53 <sub>70</sub>
19.3	4.522 <sub>178</sub>	22.56 <sub>40</sub>	10.479 <sub>221</sub>	38.55 <sub>15</sub>	54.05 <sub>105</sub>	54.96 <sub>76</sub>	50.918 <sub>179</sub>	40.23 <sub>45</sub>
März 1.3	4.344 <sub>188</sub>	22.96 <sub>18</sub>	10.258 <sub>234</sub>	38.70 <sub>8</sub>	53.00 <sub>110</sub>	55.72 <sub>18</sub>	50.739 <sub>191</sub>	40.68 <sub>19</sub>
11.2	4.156 <sub>188</sub>	23.14 <sub>6</sub>	10.024 <sub>235</sub>	38.62 <sub>30</sub>	51.90 <sub>110</sub>	55.90 <sub>39</sub>	50.548 <sub>191</sub>	40.87 <sub>6</sub>
21.2	3.968 <sub>177</sub>	23.08 <sub>28</sub>	9.789 <sub>221</sub>	38.32 <sub>52</sub>	50.80 <sub>103</sub>	55.51 <sub>94</sub>	50.357 <sub>182</sub>	40.81 <sub>32</sub>
31.2	3.791 <sub>158</sub>	22.80 <sub>50</sub>	9.568 <sub>196</sub>	37.80 <sub>69</sub>	49.77 <sub>94</sub>	54.57 <sub>145</sub>	50.175 <sub>163</sub>	40.49 <sub>56</sub>
Apr. 10.2	3.633 <sub>130</sub>	22.30 <sub>73</sub>	9.372 <sub>159</sub>	37.11 <sub>84</sub>	48.83 <sub>80</sub>	53.12 <sub>188</sub>	50.012 <sub>137</sub>	39.93 <sub>82</sub>
20.1	3.503 <sub>95</sub>	21.57 <sub>94</sub>	9.213 <sub>115</sub>	36.27 <sub>93</sub>	48.03 <sub>63</sub>	51.24 <sub>223</sub>	49.875 <sub>102</sub>	39.11 <sub>105</sub>
30.1	3.408 <sub>56</sub>	20.63 <sub>115</sub>	9.098 <sub>65</sub>	35.34 <sub>98</sub>	47.40 <sub>45</sub>	49.01 <sub>251</sub>	49.773 <sub>63</sub>	38.06 <sub>127</sub>
Mai 10.1	3.352 <sub>13</sub>	19.48 <sub>134</sub>	9.033 <sub>9</sub>	34.36 <sub>99</sub>	46.95 <sub>23</sub>	46.50 <sub>269</sub>	49.710 <sub>22</sub>	36.79 <sub>147</sub>
20.1	3.339 <sub>30</sub>	18.14 <sub>151</sub>	9.024 <sub>45</sub>	33.37 <sub>95</sub>	46.72 <sub>2</sub>	43.81 <sub>278</sub>	49.688 <sub>22</sub>	35.32 <sub>164</sub>
30.0	3.369 <sub>73</sub>	16.63 <sub>164</sub>	9.069 <sub>101</sub>	32.42 <sub>88</sub>	46.70 <sub>19</sub>	41.03 <sub>277</sub>	49.710 <sub>65</sub>	33.68 <sub>179</sub>
Juni 9.0	3.442 <sub>114</sub>	14.99 <sub>174</sub>	9.170 <sub>152</sub>	31.54 <sub>77</sub>	46.89 <sub>39</sub>	38.26 <sub>269</sub>	49.775 <sub>106</sub>	31.89 <sub>189</sub>
19.0	3.556 <sub>152</sub>	13.25 <sub>180</sub>	9.322 <sub>199</sub>	30.77 <sub>63</sub>	47.28 <sub>60</sub>	35.57 <sub>253</sub>	49.881 <sub>144</sub>	30.00 <sub>194</sub>
28.9	3.708 <sub>186</sub>	11.45 <sub>181</sub>	9.521 <sub>241</sub>	30.14 <sub>49</sub>	47.88 <sub>76</sub>	33.04 <sub>230</sub>	50.025 <sub>178</sub>	28.06 <sub>194</sub>
Juli 8.9	3.894 <sub>214</sub>	9.64 <sub>177</sub>	9.762 <sub>277</sub>	29.65 <sub>33</sub>	48.64 <sub>93</sub>	30.74 <sub>202</sub>	50.203 <sub>208</sub>	26.12 <sub>189</sub>
18.9	4.108 <sub>238</sub>	7.87 <sub>167</sub>	10.039 <sub>306</sub>	29.32 <sub>17</sub>	49.57 <sub>106</sub>	28.72 <sub>169</sub>	50.411 <sub>233</sub>	24.23 <sub>178</sub>
28.9	4.346 <sub>255</sub>	6.20 <sub>151</sub>	10.345 <sub>329</sub>	29.15 <sub>2</sub>	50.63 <sub>118</sub>	27.03 <sub>132</sub>	50.644 <sub>251</sub>	22.45 <sub>160</sub>
Aug. 7.8	4.601 <sub>269</sub>	4.69 <sub>131</sub>	10.674 <sub>345</sub>	29.13 <sub>12</sub>	51.81 <sub>126</sub>	25.71 <sub>93</sub>	50.895 <sub>266</sub>	20.85 <sub>138</sub>
17.8	4.870 <sub>277</sub>	3.38 <sub>105</sub>	11.019 <sub>354</sub>	29.25 <sub>25</sub>	53.07 <sub>132</sub>	24.78 <sub>51</sub>	51.161 <sub>275</sub>	19.47 <sub>110</sub>
27.8	5.147 <sub>280</sub>	2.33 <sub>76</sub>	11.373 <sub>360</sub>	29.50 <sub>37</sub>	54.39 <sub>136</sub>	24.27 <sub>8</sub>	51.436 <sub>280</sub>	18.37 <sub>77</sub>
Sept. 6.8	5.427 <sub>279</sub>	1.57 <sub>43</sub>	11.733 <sub>359</sub>	29.87 <sub>47</sub>	55.75 <sub>138</sub>	24.19 <sub>33</sub>	51.716 <sub>280</sub>	17.60 <sub>43</sub>
16.7	5.706 <sub>273</sub>	1.14 <sub>9</sub>	12.092 <sub>354</sub>	30.34 <sub>57</sub>	57.13 <sub>136</sub>	24.52 <sub>77</sub>	51.996 <sub>275</sub>	17.17 <sub>6</sub>
26.7	5.979 <sub>265</sub>	1.05 <sub>25</sub>	12.446 <sub>345</sub>	30.91 <sub>65</sub>	58.49 <sub>132</sub>	25.29 <sub>118</sub>	52.271 <sub>268</sub>	17.11 <sub>31</sub>
Okt. 6.7	6.244 <sub>253</sub>	1.30 <sub>59</sub>	12.791 <sub>331</sub>	31.56 <sub>73</sub>	59.81 <sub>126</sub>	26.47 <sub>159</sub>	52.539 <sub>256</sub>	17.42 <sub>67</sub>
16.6	6.497 <sub>236</sub>	1.89 <sub>88</sub>	13.122 <sub>312</sub>	32.29 <sub>80</sub>	61.07 <sub>117</sub>	28.06 <sub>196</sub>	52.795 <sub>241</sub>	18.09 <sub>100</sub>
26.6	6.733 <sub>217</sub>	2.77 <sub>114</sub>	13.434 <sub>289</sub>	33.09 <sub>87</sub>	62.24 <sub>105</sub>	30.02 <sub>230</sub>	53.036 <sub>221</sub>	19.09 <sub>128</sub>
Nov. 5.6	6.950 <sub>192</sub>	3.91 <sub>135</sub>	13.723 <sub>259</sub>	33.96 <sub>94</sub>	63.29 <sub>91</sub>	32.32 <sub>260</sub>	53.257 <sub>196</sub>	20.37 <sub>150</sub>
15.6	7.142 <sub>163</sub>	5.26 <sub>149</sub>	13.982 <sub>225</sub>	34.90 <sub>99</sub>	64.20 <sub>74</sub>	34.92 <sub>285</sub>	53.453 <sub>169</sub>	21.87 <sub>167</sub>
25.5	7.305 <sub>131</sub>	6.75 <sub>157</sub>	14.207 <sub>184</sub>	35.89 <sub>104</sub>	64.94 <sub>55</sub>	37.77 <sub>301</sub>	53.622 <sub>135</sub>	23.54 <sub>175</sub>
Dez. 5.5	7.436 <sub>94</sub>	8.32 <sub>159</sub>	14.391 <sub>137</sub>	36.93 <sub>107</sub>	65.49 <sub>34</sub>	40.78 <sub>311</sub>	53.757 <sub>98</sub>	25.29 <sub>178</sub>
15.5	7.530 <sub>54</sub>	9.91 <sub>155</sub>	14.528 <sub>85</sub>	38.00 <sub>107</sub>	65.83 <sub>12</sub>	43.89 <sub>312</sub>	53.855 <sub>58</sub>	27.07 <sub>173</sub>
25.5	7.584 <sub>12</sub>	11.46 <sub>144</sub>	14.613 <sub>30</sub>	39.07 <sub>104</sub>	65.95 <sub>11</sub>	47.01 <sub>302</sub>	53.913 <sub>16</sub>	28.80 <sub>163</sub>
35.4	7.596	12.90	14.643	40.11	65.84	50.03	53.929	30.43
Mittl. Ort see 5, tg 6	3.816 1.004	5.73 -0.091	9.393 1.276	41.02 +0.792	50.04 5.311	46.71 +5.216	50.186 1.011	22.38 -0.146

Mittlere Zeit Greenw.	193) $\alpha$ Aurigae		196) $\beta$ Doradus		201) $\gamma$ Orionis		202) $\beta$ Tauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	5 <sup>h</sup> 10 <sup>m</sup>	+45° 55'	5 <sup>h</sup> 13 <sup>m</sup>	-67° 16'	5 <sup>h</sup> 20 <sup>m</sup>	+6° 16'	5 <sup>h</sup> 21 <sup>m</sup>	+28° 32'
Jan. 0.4	61.721 9	11.25 138	51.73 26	35.71 304	61.240 8	41.26 85	26.810 13	29.82 43
10.4	61.712 71	12.63 125	51.47 36	38.75 268	61.248 37	40.41 74	26.823 38	30.25 40
20.4	61.641 130	13.88 107	51.11 44	41.43 223	61.211 79	39.67 64	26.785 86	30.65 36
30.4	61.511 181	14.95 85	50.67 51	43.66 173	61.132 117	39.03 51	26.699 129	31.01 29
Feb. 9.3	61.330 223	15.80 57	50.16 55	45.39 120	61.015 148	38.52 40	26.570 165	31.30 20
19.3	61.107 252	16.37 28	49.61 60	46.59 64	60.867 171	38.12 29	26.405 190	31.50 8
März 1.3	60.855 267	16.65 2	49.01 61	47.23 9	60.696 183	37.83 17	26.215 207	31.58 5
11.3	60.588 268	16.63 32	48.40 60	47.32 47	60.513 187	37.66 5	26.008 208	31.53 16
21.2	60.320 253	16.31 61	47.80 59	46.85 99	60.326 178	37.61 6	25.800 208	31.37 28
31.2	60.067 226	15.70 87	47.21 55	45.86 150	60.148 161	37.67 18	25.600 179	31.09 36
Apr. 10.2	59.841 185	14.83 107	46.66 49	44.36 196	59.987 134	37.85 31	25.421 149	30.73 44
20.1	59.656 136	13.76 122	46.17 43	42.40 239	59.853 101	38.16 45	25.272 111	30.29 48
30.1	59.520 80	12.54 133	45.74 34	40.01 275	59.752 63	38.61 58	25.161 66	29.81 49
Mai 10.1	59.440 20	11.21 138	45.40 26	37.26 304	59.689 20	39.19 72	25.095 19	29.32 46
20.1	59.420 43	9.83 137	45.14 17	34.22 329	59.669 23	39.91 86	25.076 31	28.86 40
30.0	59.463 103	8.46 131	44.97 7	30.93 343	59.692 66	40.77 97	25.107 79	28.46 33
Juni 9.0	59.566 162	7.15 120	44.90 2	27.50 349	59.758 108	41.74 107	25.186 126	28.13 24
19.0	59.728 215	5.95 107	44.92 13	24.01 348	59.866 145	42.81 115	25.312 169	27.89 13
29.0	59.943 262	4.88 91	45.05 22	20.53 336	60.011 180	43.96 120	25.481 207	27.76 3
Juli 8.9	60.205 303	3.97 72	45.27 31	17.17 316	60.191 209	45.16 120	25.688 240	27.73 7
18.9	60.508 337	3.25 53	45.58 39	14.01 285	60.400 234	46.36 118	25.928 268	27.80 16
28.9	60.845 362	2.72 33	45.97 45	11.16 246	60.634 253	47.54 110	26.196 289	27.96 24
Aug. 7.8	61.207 382	2.39 14	46.42 52	8.70 199	60.887 267	48.64 98	26.485 305	28.20 30
17.8	61.589 395	2.25 6	46.94 56	6.71 145	61.154 278	49.62 83	26.790 315	28.50 34
27.8	61.984 401	2.31 25	47.50 58	5.26 86	61.432 282	50.45 64	27.105 322	28.84 36
Sept. 6.8	62.385 401	2.56 42	48.08 60	4.40 22	61.714 284	51.09 42	27.427 323	29.20 36
16.7	62.786 397	2.98 58	48.68 59	4.18 43	61.998 281	51.51 19	27.750 321	29.56 36
26.7	63.183 387	3.56 75	49.27 57	4.61 107	62.279 276	51.70 5	28.071 314	29.92 35
Okt. 6.7	63.570 371	4.31 89	49.84 53	5.68 169	62.555 266	51.65 28	28.385 305	30.27 33
16.7	63.941 351	5.20 103	50.37 48	7.37 224	62.821 253	51.37 48	28.690 290	30.60 32
26.6	64.292 325	6.23 116	50.85 40	9.61 272	63.074 235	50.89 67	28.980 271	30.92 32
Nov. 5.6	64.617 291	7.39 128	51.25 32	12.33 310	63.309 214	50.22 81	29.251 246	31.24 34
15.6	64.908 252	8.67 138	51.57 22	15.43 336	63.523 187	49.41 91	29.497 218	31.58 35
25.5	65.160 205	10.05 145	51.79 12	18.79 351	63.710 156	48.50 97	29.715 181	31.93 39
Dez. 5.5	65.365 151	11.50 150	51.91 1	22.30 353	63.866 119	47.53 96	29.896 141	32.32 41
15.5	65.516 93	13.00 150	51.92 9	25.83 342	63.985 79	46.57 94	30.037 95	32.73 44
25.5	65.609 32	14.50 147	51.83 20	29.25 320	64.064 36	45.63 87	30.132 46	33.17 46
35.4	65.641	15.97	51.63	32.45	64.100	44.76	30.178	33.63
Mittl. Ort sec 6, tg 2	59.871 1.438	16.61 +1.033	48.74 2.588	18.96 -2.387	60.018 1.006	51.62 +0.110	25.383 1.138	37.67 +0.544



# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	203) 17 Camelop.		206) δ Orionis		207) α Leporis		205) Gr. 966	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	5 <sup>h</sup> 22 <sup>m</sup>	+62° 59'	5 <sup>h</sup> 28 <sup>m</sup>	-0° 21'	5 <sup>h</sup> 29 <sup>m</sup>	-17° 52'	5 <sup>h</sup> 29 <sup>m</sup>	+74° 59'
Jan. 0.4	56.44 <sub>3</sub>	73.14 <sub>227</sub>	5.530 <sub>9</sub>	29.26 <sub>122</sub>	21.282 <sub>7</sub>	48.09 <sub>208</sub>	30.25 <sub>9</sub>	40.15 <sub>279</sub>
10.4	56.41 <sub>12</sub>	75.41 <sub>210</sub>	5.539 <sub>35</sub>	30.48 <sub>108</sub>	21.275 <sub>53</sub>	50.17 <sub>187</sub>	30.16 <sub>25</sub>	42.94 <sub>260</sub>
20.4	56.29 <sub>22</sub>	77.51 <sub>184</sub>	5.504 <sub>77</sub>	31.56 <sub>93</sub>	21.222 <sub>95</sub>	52.04 <sub>159</sub>	29.91 <sub>41</sub>	45.54 <sub>230</sub>
30.4	56.07 <sub>29</sub>	79.35 <sub>152</sub>	5.427 <sub>115</sub>	32.49 <sub>75</sub>	21.127 <sub>134</sub>	53.63 <sub>130</sub>	29.50 <sub>54</sub>	47.84 <sub>192</sub>
Feb. 9.3	55.78 <sub>35</sub>	80.87 <sub>112</sub>	5.312 <sub>147</sub>	33.24 <sub>57</sub>	20.993 <sub>165</sub>	54.93 <sub>98</sub>	28.96 <sub>65</sub>	49.76 <sub>146</sub>
19.3	55.43 <sub>40</sub>	81.99 <sub>70</sub>	5.165 <sub>170</sub>	33.81 <sub>40</sub>	20.828 <sub>189</sub>	55.91 <sub>65</sub>	28.31 <sub>73</sub>	51.22 <sub>96</sub>
März 1.3	55.03 <sub>43</sub>	82.69 <sub>24</sub>	4.995 <sub>184</sub>	34.21 <sub>20</sub>	20.639 <sub>202</sub>	56.56 <sub>31</sub>	27.58 <sub>78</sub>	52.18 <sub>42</sub>
11.3	54.60 <sub>43</sub>	82.93 <sub>22</sub>	4.811 <sub>188</sub>	34.41 <sub>3</sub>	20.437 <sub>207</sub>	56.87 <sub>4</sub>	26.80 <sub>79</sub>	52.60 <sub>13</sub>
21.2	54.17 <sub>41</sub>	82.71 <sub>67</sub>	4.623 <sub>181</sub>	34.44 <sub>15</sub>	20.230 <sub>199</sub>	56.83 <sub>37</sub>	26.01 <sub>76</sub>	52.47 <sub>67</sub>
31.2	53.76 <sub>38</sub>	82.04 <sub>107</sub>	4.442 <sub>165</sub>	34.29 <sub>34</sub>	20.031 <sub>184</sub>	56.46 <sub>70</sub>	25.25 <sub>70</sub>	51.80 <sub>116</sub>
Apr. 10.2	53.38 <sub>32</sub>	80.97 <sub>143</sub>	4.277 <sub>140</sub>	33.95 <sub>51</sub>	19.847 <sub>159</sub>	55.76 <sub>101</sub>	24.55 <sub>61</sub>	50.64 <sub>161</sub>
20.1	53.06 <sub>25</sub>	79.54 <sub>172</sub>	4.137 <sub>108</sub>	33.44 <sub>70</sub>	19.688 <sub>126</sub>	54.75 <sub>130</sub>	23.94 <sub>49</sub>	49.03 <sub>198</sub>
30.1	52.81 <sub>17</sub>	77.82 <sub>194</sub>	4.029 <sub>71</sub>	32.74 <sub>87</sub>	19.562 <sub>89</sub>	53.45 <sub>158</sub>	23.45 <sub>37</sub>	47.05 <sub>228</sub>
Mai 10.1	52.64 <sub>8</sub>	75.88 <sub>209</sub>	3.958 <sub>29</sub>	31.87 <sub>104</sub>	19.473 <sub>48</sub>	51.87 <sub>182</sub>	23.08 <sub>21</sub>	44.77 <sub>248</sub>
20.1	52.56 <sub>1</sub>	73.79 <sub>216</sub>	3.929 <sub>13</sub>	30.83 <sub>119</sub>	19.425 <sub>5</sub>	50.05 <sub>203</sub>	22.87 <sub>6</sub>	42.29 <sub>261</sub>
30.0	52.57 <sub>10</sub>	71.63 <sub>217</sub>	3.942 <sub>55</sub>	29.64 <sub>132</sub>	19.420 <sub>39</sub>	48.02 <sub>218</sub>	22.81 <sub>9</sub>	39.68 <sub>265</sub>
Juni 9.0	52.67 <sub>19</sub>	69.46 <sub>209</sub>	3.997 <sub>96</sub>	28.32 <sub>142</sub>	19.459 <sub>82</sub>	45.84 <sub>230</sub>	22.90 <sub>25</sub>	37.03 <sub>261</sub>
19.0	52.86 <sub>27</sub>	67.37 <sub>197</sub>	4.093 <sub>134</sub>	26.90 <sub>150</sub>	19.541 <sub>121</sub>	43.54 <sub>235</sub>	23.15 <sub>39</sub>	34.42 <sub>250</sub>
29.0	53.13 <sub>34</sub>	65.40 <sub>179</sub>	4.227 <sub>169</sub>	25.40 <sub>152</sub>	19.662 <sub>158</sub>	41.19 <sub>233</sub>	23.54 <sub>52</sub>	31.92 <sub>231</sub>
Juli 8.9	53.47 <sub>41</sub>	63.61 <sub>158</sub>	4.396 <sub>198</sub>	23.88 <sub>150</sub>	19.820 <sub>192</sub>	38.86 <sub>226</sub>	24.06 <sub>65</sub>	29.61 <sub>208</sub>
18.9	53.88 <sub>47</sub>	62.03 <sub>132</sub>	4.594 <sub>224</sub>	22.38 <sub>144</sub>	20.012 <sub>218</sub>	36.60 <sub>211</sub>	24.71 <sub>75</sub>	27.53 <sub>180</sub>
28.9	54.35 <sub>51</sub>	60.71 <sub>103</sub>	4.818 <sub>244</sub>	20.94 <sub>132</sub>	20.230 <sub>242</sub>	34.49 <sub>190</sub>	25.46 <sub>83</sub>	25.73 <sub>147</sub>
Aug. 7.8	54.86 <sub>55</sub>	59.68 <sub>74</sub>	5.062 <sub>260</sub>	19.62 <sub>116</sub>	20.472 <sub>260</sub>	32.59 <sub>161</sub>	26.29 <sub>91</sub>	24.26 <sub>112</sub>
17.8	55.41 <sub>58</sub>	58.94 <sub>43</sub>	5.322 <sub>271</sub>	18.46 <sub>95</sub>	20.732 <sub>273</sub>	30.98 <sub>128</sub>	27.20 <sub>96</sub>	23.14 <sub>75</sub>
27.8	55.99 <sub>59</sub>	58.51 <sub>11</sub>	5.593 <sub>277</sub>	17.51 <sub>70</sub>	21.005 <sub>281</sub>	29.70 <sub>89</sub>	28.16 <sub>100</sub>	22.39 <sub>35</sub>
Sept. 6.8	56.58 <sub>59</sub>	58.40 <sub>20</sub>	5.870 <sub>280</sub>	16.81 <sub>42</sub>	21.286 <sub>285</sub>	28.81 <sub>46</sub>	29.16 <sub>101</sub>	22.04 <sub>4</sub>
16.7	57.17 <sub>60</sub>	58.60 <sub>53</sub>	6.150 <sub>278</sub>	16.39 <sub>13</sub>	21.571 <sub>284</sub>	28.35 <sub>1</sub>	30.17 <sub>102</sub>	22.08 <sub>45</sub>
26.7	57.77 <sub>58</sub>	59.13 <sub>83</sub>	6.428 <sub>274</sub>	16.26 <sub>18</sub>	21.855 <sub>279</sub>	28.34 <sub>44</sub>	31.19 <sub>100</sub>	22.53 <sub>85</sub>
Okt. 6.7	58.35 <sub>56</sub>	59.96 <sub>113</sub>	6.702 <sub>265</sub>	16.44 <sub>47</sub>	22.134 <sub>269</sub>	28.78 <sub>88</sub>	32.19 <sub>96</sub>	23.38 <sub>123</sub>
16.7	58.91 <sub>53</sub>	61.09 <sub>142</sub>	6.967 <sub>253</sub>	16.91 <sub>73</sub>	22.403 <sub>255</sub>	29.66 <sub>129</sub>	33.15 <sub>91</sub>	24.61 <sub>161</sub>
26.6	59.44 <sub>49</sub>	62.51 <sub>169</sub>	7.220 <sub>236</sub>	17.64 <sub>98</sub>	22.658 <sub>235</sub>	30.95 <sub>164</sub>	34.06 <sub>83</sub>	26.22 <sub>195</sub>
Nov. 5.6	59.93 <sub>44</sub>	64.20 <sub>193</sub>	7.456 <sub>214</sub>	18.62 <sub>115</sub>	22.893 <sub>212</sub>	32.59 <sub>193</sub>	34.89 <sub>74</sub>	28.17 <sub>227</sub>
15.6	60.37 <sub>38</sub>	66.13 <sub>213</sub>	7.670 <sub>189</sub>	19.77 <sub>129</sub>	23.105 <sub>182</sub>	34.52 <sub>214</sub>	35.63 <sub>63</sub>	30.44 <sub>254</sub>
25.5	60.75 <sub>31</sub>	68.26 <sub>228</sub>	7.859 <sub>157</sub>	21.06 <sub>137</sub>	23.287 <sub>148</sub>	36.66 <sub>227</sub>	36.26 <sub>50</sub>	32.98 <sub>275</sub>
Dez. 5.5	61.06 <sub>22</sub>	70.54 <sub>239</sub>	8.016 <sub>121</sub>	22.43 <sub>138</sub>	23.435 <sub>109</sub>	38.93 <sub>231</sub>	36.76 <sub>35</sub>	35.73 <sub>288</sub>
15.5	61.28 <sub>12</sub>	72.93 <sub>242</sub>	8.137 <sub>81</sub>	23.81 <sub>135</sub>	23.544 <sub>67</sub>	41.24 <sub>228</sub>	37.11 <sub>18</sub>	38.61 <sub>294</sub>
25.5	61.40 <sub>4</sub>	75.35 <sub>237</sub>	8.218 <sub>37</sub>	25.16 <sub>125</sub>	23.611 <sub>23</sub>	43.52 <sub>215</sub>	37.29 <sub>2</sub>	41.55 <sub>289</sub>
35.4	61.44	77.72	8.255	26.41	23.634	45.67	37.31	44.44
Mittl. Ort sec δ, tg δ	53.53 2.203	77.87 +1.963	4.310 1.000	18.11 -0.006	20.011 1.051	35.27 -0.323	25.10 3.863	44.70 +3.731

Mittlere Zeit Greenw.	209) $\iota$ Orionis		210) $\epsilon$ Orionis		212) $\beta$ Doradus		211) $\zeta$ Tauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	5 <sup>h</sup> 31 <sup>m</sup>	-5° 57'	5 <sup>h</sup> 32 <sup>m</sup>	-1° 14'	5 <sup>h</sup> 32 <sup>m</sup>	-62° 32'	5 <sup>h</sup> 33 <sup>m</sup>	+21° 5'
Jan. 0.5	41.192 <sub>8</sub>	45.68 <sub>152</sub>	19.558 <sub>12</sub>	71.30 <sub>128</sub>	59.96 <sub>16</sub>	39.28 <sub>320</sub>	3.859 <sub>24</sub>	39.60 <sub>2</sub>
10.4	41.200 <sub>37</sub>	47.20 <sub>136</sub>	19.570 <sub>32</sub>	72.58 <sub>114</sub>	59.80 <sub>25</sub>	42.48 <sub>288</sub>	3.883 <sub>25</sub>	39.58 <sub>2</sub>
20.4	41.163 <sub>79</sub>	48.56 <sub>117</sub>	19.538 <sub>74</sub>	73.72 <sub>97</sub>	59.55 <sub>33</sub>	45.36 <sub>246</sub>	3.858 <sub>71</sub>	39.60 <sub>5</sub>
30.4	41.084 <sub>117</sub>	49.73 <sub>95</sub>	19.464 <sub>114</sub>	74.69 <sub>80</sub>	59.22 <sub>39</sub>	47.82 <sub>200</sub>	3.787 <sub>113</sub>	39.65 <sub>4</sub>
Feb. 9.3	40.967 <sub>149</sub>	50.68 <sub>72</sub>	19.350 <sub>145</sub>	75.49 <sub>60</sub>	58.83 <sub>44</sub>	49.82 <sub>149</sub>	3.674 <sub>149</sub>	39.69 <sub>4</sub>
19.3	40.818 <sub>172</sub>	51.40 <sub>49</sub>	19.205 <sub>170</sub>	76.09 <sub>42</sub>	58.39 <sub>48</sub>	51.31 <sub>94</sub>	3.525 <sub>176</sub>	39.73 <sub>0</sub>
März 1.3	40.646 <sub>187</sub>	51.89 <sub>26</sub>	19.035 <sub>184</sub>	76.51 <sub>22</sub>	57.91 <sub>50</sub>	52.25 <sub>40</sub>	3.349 <sub>192</sub>	39.73 <sub>4</sub>
11.3	40.459 <sub>192</sub>	52.15 <sub>1</sub>	18.851 <sub>188</sub>	76.73 <sub>3</sub>	57.41 <sub>50</sub>	52.65 <sub>15</sub>	3.157 <sub>197</sub>	39.69 <sub>8</sub>
21.2	40.267 <sub>185</sub>	52.16 <sub>22</sub>	18.663 <sub>182</sub>	76.76 <sub>16</sub>	56.91 <sub>49</sub>	52.50 <sub>69</sub>	2.960 <sub>191</sub>	39.61 <sub>12</sub>
31.2	40.082 <sub>170</sub>	51.94 <sub>44</sub>	18.481 <sub>167</sub>	76.60 <sub>34</sub>	56.42 <sub>47</sub>	51.81 <sub>121</sub>	2.769 <sub>173</sub>	39.49 <sub>14</sub>
Apr. 10.2	39.912 <sub>145</sub>	51.50 <sub>68</sub>	18.314 <sub>143</sub>	76.26 <sub>54</sub>	55.95 <sub>42</sub>	50.60 <sub>169</sub>	2.596 <sub>147</sub>	39.35 <sub>15</sub>
20.2	39.767 <sub>114</sub>	50.82 <sub>89</sub>	18.171 <sub>111</sub>	75.72 <sub>72</sub>	55.53 <sub>37</sub>	48.91 <sub>214</sub>	2.449 <sub>112</sub>	39.20 <sub>14</sub>
30.1	39.653 <sub>77</sub>	49.93 <sub>111</sub>	18.060 <sub>74</sub>	75.00 <sub>91</sub>	55.16 <sub>31</sub>	46.77 <sub>253</sub>	2.337 <sub>72</sub>	39.06 <sub>11</sub>
Mai 10.1	39.576 <sub>37</sub>	48.82 <sub>129</sub>	17.986 <sub>34</sub>	74.09 <sub>107</sub>	54.85 <sub>24</sub>	44.24 <sub>286</sub>	2.265 <sub>28</sub>	38.95 <sub>6</sub>
20.1	39.539 <sub>5</sub>	47.53 <sub>146</sub>	17.952 <sub>9</sub>	73.02 <sub>122</sub>	54.61 <sub>16</sub>	41.38 <sub>314</sub>	2.237 <sub>18</sub>	38.89 <sub>1</sub>
30.0	39.544 <sub>48</sub>	46.07 <sub>161</sub>	17.961 <sub>50</sub>	71.80 <sub>136</sub>	54.45 <sub>8</sub>	38.24 <sub>332</sub>	2.255 <sub>64</sub>	38.90 <sub>9</sub>
Juni 9.0	39.592 <sub>89</sub>	44.46 <sub>171</sub>	18.011 <sub>92</sub>	70.44 <sub>146</sub>	54.37 <sub>1</sub>	34.92 <sub>344</sub>	2.319 <sub>108</sub>	38.99 <sub>18</sub>
19.0	39.681 <sub>127</sub>	42.75 <sub>178</sub>	18.103 <sub>130</sub>	68.98 <sub>153</sub>	54.38 <sub>8</sub>	31.48 <sub>347</sub>	2.427 <sub>149</sub>	39.17 <sub>26</sub>
29.0	39.808 <sub>162</sub>	40.97 <sub>179</sub>	18.233 <sub>164</sub>	67.45 <sub>155</sub>	54.46 <sub>17</sub>	28.01 <sub>339</sub>	2.576 <sub>185</sub>	39.43 <sub>34</sub>
Juli 8.9	39.970 <sub>193</sub>	39.18 <sub>175</sub>	18.397 <sub>195</sub>	65.90 <sub>154</sub>	54.63 <sub>24</sub>	24.62 <sub>323</sub>	2.761 <sub>217</sub>	39.77 <sub>40</sub>
18.9	40.163 <sub>218</sub>	37.43 <sub>167</sub>	18.592 <sub>220</sub>	64.36 <sub>147</sub>	54.87 <sub>31</sub>	21.39 <sub>297</sub>	2.978 <sub>244</sub>	40.17 <sub>44</sub>
28.9	40.381 <sub>240</sub>	35.76 <sub>151</sub>	18.812 <sub>241</sub>	62.89 <sub>134</sub>	55.18 <sub>37</sub>	18.42 <sub>262</sub>	3.222 <sub>266</sub>	40.61 <sub>47</sub>
Aug. 7.9	40.621 <sub>256</sub>	34.25 <sub>131</sub>	19.053 <sub>258</sub>	61.55 <sub>118</sub>	55.55 <sub>42</sub>	15.80 <sub>219</sub>	3.488 <sub>282</sub>	41.08 <sub>46</sub>
17.8	40.877 <sub>268</sub>	32.94 <sub>107</sub>	19.311 <sub>269</sub>	60.37 <sub>96</sub>	55.97 <sub>47</sub>	13.61 <sub>167</sub>	3.770 <sub>294</sub>	41.54 <sub>43</sub>
27.8	41.145 <sub>276</sub>	31.87 <sub>76</sub>	19.580 <sub>276</sub>	59.41 <sub>71</sub>	56.44 <sub>49</sub>	11.94 <sub>109</sub>	4.064 <sub>300</sub>	41.97 <sub>39</sub>
Sept. 6.8	41.421 <sub>279</sub>	31.11 <sub>44</sub>	19.856 <sub>279</sub>	58.70 <sub>42</sub>	56.93 <sub>51</sub>	10.85 <sub>47</sub>	4.364 <sub>305</sub>	42.36 <sub>31</sub>
16.7	41.700 <sub>278</sub>	30.67 <sub>9</sub>	20.135 <sub>279</sub>	58.28 <sub>11</sub>	57.44 <sub>51</sub>	10.38 <sub>17</sub>	4.669 <sub>303</sub>	42.67 <sub>23</sub>
26.7	41.978 <sub>274</sub>	30.58 <sub>27</sub>	20.414 <sub>274</sub>	58.17 <sub>19</sub>	57.95 <sub>50</sub>	10.55 <sub>83</sub>	4.972 <sub>300</sub>	42.90 <sub>14</sub>
Okt. 6.7	42.252 <sub>265</sub>	30.85 <sub>61</sub>	20.688 <sub>267</sub>	58.36 <sub>50</sub>	58.45 <sub>47</sub>	11.38 <sub>146</sub>	5.272 <sub>292</sub>	43.04 <sub>5</sub>
16.7	42.517 <sub>253</sub>	31.46 <sub>92</sub>	20.955 <sub>255</sub>	58.86 <sub>77</sub>	58.92 <sub>43</sub>	12.84 <sub>204</sub>	5.564 <sub>280</sub>	43.09 <sub>2</sub>
26.6	42.770 <sub>237</sub>	32.38 <sub>120</sub>	21.210 <sub>238</sub>	59.63 <sub>102</sub>	59.35 <sub>38</sub>	14.88 <sub>256</sub>	5.844 <sub>263</sub>	43.07 <sub>7</sub>
Nov. 5.6	43.007 <sub>214</sub>	33.58 <sub>143</sub>	21.448 <sub>217</sub>	60.65 <sub>121</sub>	59.73 <sub>32</sub>	17.44 <sub>297</sub>	6.107 <sub>243</sub>	43.00 <sub>11</sub>
15.6	43.221 <sub>188</sub>	35.01 <sub>158</sub>	21.665 <sub>191</sub>	61.86 <sub>135</sub>	60.05 <sub>24</sub>	20.41 <sub>329</sub>	6.350 <sub>215</sub>	42.89 <sub>13</sub>
25.6	43.409 <sub>157</sub>	36.59 <sub>168</sub>	21.856 <sub>161</sub>	63.21 <sub>142</sub>	60.29 <sub>16</sub>	23.70 <sub>348</sub>	6.565 <sub>183</sub>	42.76 <sub>12</sub>
Dez. 5.5	43.566 <sub>120</sub>	38.27 <sub>171</sub>	22.017 <sub>124</sub>	64.63 <sub>144</sub>	60.45 <sub>7</sub>	27.18 <sub>355</sub>	6.748 <sub>145</sub>	42.64 <sub>9</sub>
15.5	43.686 <sub>80</sub>	39.98 <sub>167</sub>	22.141 <sub>85</sub>	66.07 <sub>141</sub>	60.52 <sub>2</sub>	30.73 <sub>351</sub>	6.893 <sub>102</sub>	42.55 <sub>5</sub>
25.5	43.766 <sub>37</sub>	41.65 <sub>158</sub>	22.226 <sub>40</sub>	67.48 <sub>133</sub>	60.50 <sub>12</sub>	34.24 <sub>333</sub>	6.995 <sub>55</sub>	42.50 <sub>0</sub>
35.4	43.803	43.23	22.266	68.81	60.38	37.57	7.050	42.50
Mittl. Ort	39.964	33.98	18.332	60.06	57.28	24.03	2.521	48.67
sec $\delta$ , tg $\delta$	1.005	-0.104	1.000	-0.022	2.169	-1.924	1.072	+0.386

Mittlere Zeit Greenw.	215) $\alpha$ Columbae		216) $\sigma$ Aurigae		219) $\zeta$ Leporis		220) $\alpha$ Orionis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	5 <sup>h</sup> 36 <sup>m</sup>	-34° 6'	5 <sup>h</sup> 39 <sup>m</sup>	+49° 47'	5 <sup>h</sup> 43 <sup>m</sup>	-14° 50'	5 <sup>h</sup> 44 <sup>m</sup>	-9° 41'
Jan. 0.5	53.069	65.88	58.021	32.33	29.243	71.01	7.512	57.28
10.4	53.040	68.62	58.048	33.98	29.252	73.01	7.528	59.04
20.4	52.961	71.08	58.005	35.54	29.215	74.82	7.498	60.61
30.4	52.834	73.21	57.894	36.95	29.135	76.38	7.424	61.98
Feb. 9.3	52.664	74.96	57.723	38.16	29.014	77.67	7.311	63.10
19.3	52.460	76.28	57.500	39.10	28.861	78.66	7.164	63.96
März 1.3	52.230	77.16	57.239	39.74	28.681	79.34	6.992	64.56
11.3	51.984	77.60	56.954	40.05	28.485	79.71	6.803	64.88
21.2	51.733	77.57	56.660	40.02	28.283	79.76	6.608	64.94
31.2	51.488	77.10	56.375	39.66	28.086	79.50	6.417	64.73
Apr. 10.2	51.259	76.19	56.112	38.99	27.902	78.94	6.240	64.25
20.2	51.056	74.88	55.885	38.04	27.741	78.08	6.085	63.52
30.1	50.886	73.19	55.706	36.87	27.610	76.94	5.960	62.54
Mai 10.1	50.756	71.15	55.582	35.52	27.515	75.54	5.870	61.33
20.1	50.671	68.80	55.520	34.06	27.459	73.90	5.820	59.91
30.0	50.632	66.21	55.522	32.54	27.446	72.07	5.812	58.31
Juni 9.0	50.642	63.44	55.589	31.01	27.475	70.06	5.845	56.56
19.0	50.701	60.54	55.718	29.53	27.546	67.95	5.920	54.69
29.0	50.804	57.59	55.906	28.13	27.656	65.77	6.033	52.76
Juli 8.9	50.951	54.68	56.148	26.85	27.802	63.58	6.181	50.81
18.9	51.138	51.88	56.437	25.73	27.982	61.46	6.362	48.91
28.9	51.359	49.27	56.766	24.78	28.190	59.45	6.570	47.11
Aug. 7.9	51.610	46.95	57.129	24.02	28.421	57.64	6.801	45.47
17.8	51.884	44.98	57.519	23.46	28.672	56.08	7.051	44.06
27.8	52.178	43.44	57.928	23.10	28.937	54.83	7.314	42.92
Sept. 6.8	52.484	42.39	58.351	22.95	29.212	53.94	7.587	42.10
16.7	52.797	41.87	58.781	23.01	29.493	53.45	7.866	41.63
26.7	53.111	41.90	59.212	23.26	29.776	53.38	8.145	41.55
Okt. 6.7	53.419	42.50	59.639	23.71	30.056	53.75	8.423	41.86
16.7	53.717	43.64	60.056	24.36	30.328	54.53	8.693	42.54
26.6	53.998	45.29	60.456	25.20	30.589	55.71	8.953	43.58
Nov. 5.6	54.255	47.39	60.832	26.23	30.833	57.23	9.197	44.92
15.6	54.483	49.86	61.178	27.45	31.056	59.04	9.420	46.53
25.6	54.675	52.61	61.483	28.82	31.251	61.05	9.618	48.31
Dez. 5.5	54.826	55.54	61.741	30.34	31.414	63.20	9.784	50.21
15.5	54.932	58.53	61.943	31.97	31.540	65.40	9.914	52.15
25.5	54.989	61.50	62.083	33.66	31.623	67.58	10.002	54.06
35.4	54.993	64.33	62.154	35.35	31.663	69.65	10.047	55.87
Mittl. Ort	51.581	52.10	56.033	39.28	27.957	58.74	6.251	45.39
sec $\delta$ , tg $\delta$	1.208	-0.677	1.549	+1.183	1.035	-0.265	1.014	-0.171



Mittlere Zeit Greenw.	224) $\alpha$ Orionis		225) $\delta$ Aurigae		227 $\beta$ Aurigae		228) $\eta$ Aurigae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	5 <sup>h</sup> 50 <sup>m</sup>	+7° 23'	5 <sup>h</sup> 53 <sup>m</sup>	+54° 16'	5 <sup>h</sup> 53 <sup>m</sup>	+44° 56'	5 <sup>h</sup> 54 <sup>m</sup>	+37° 12'
Jan. 0.5	61.422	27.63	13.391	42.72	54.631	20.08	29.820	22.43
10.4	61.457 <sup>35</sup>	26.79 <sup>84</sup>	13.436 <sup>45</sup>	44.62 <sup>190</sup>	54.679 <sup>48</sup>	21.47 <sup>139</sup>	29.869 <sup>49</sup>	23.37 <sup>94</sup>
20.4	61.446 <sup>11</sup>	26.05 <sup>74</sup>	13.402 <sup>34</sup>	46.44 <sup>182</sup>	54.662 <sup>17</sup>	22.83 <sup>136</sup>	29.860 <sup>9</sup>	24.31 <sup>94</sup>
30.4	61.389 <sup>57</sup>	25.44 <sup>61</sup>	13.292 <sup>110</sup>	48.12 <sup>168</sup>	54.582 <sup>80</sup>	24.08 <sup>125</sup>	29.794 <sup>66</sup>	25.19 <sup>88</sup>
Feb. 9.4	61.291 <sup>98</sup>	24.95 <sup>49</sup>	13.113 <sup>179</sup>	49.58 <sup>146</sup>	54.443 <sup>139</sup>	25.19 <sup>111</sup>	29.676 <sup>118</sup>	25.97 <sup>78</sup>
19.3	61.157 <sup>134</sup>	24.58 <sup>37</sup>	12.875 <sup>238</sup>	50.77 <sup>119</sup>	54.254 <sup>189</sup>	26.09 <sup>90</sup>	29.512 <sup>164</sup>	26.62 <sup>65</sup>
März 1.3	60.996 <sup>161</sup>	24.32 <sup>26</sup>	12.591 <sup>284</sup>	51.63 <sup>86</sup>	54.026 <sup>228</sup>	26.75 <sup>66</sup>	29.313 <sup>199</sup>	27.10 <sup>48</sup>
11.3	60.816 <sup>180</sup>	24.18 <sup>14</sup>	12.278 <sup>313</sup>	52.13 <sup>50</sup>	53.773 <sup>253</sup>	27.14 <sup>39</sup>	29.092 <sup>221</sup>	27.38 <sup>28</sup>
21.3	60.629 <sup>187</sup>	24.13 <sup>5</sup>	11.951 <sup>327</sup>	52.25 <sup>12</sup>	53.509 <sup>264</sup>	27.24 <sup>10</sup>	28.860 <sup>232</sup>	27.45 <sup>7</sup>
31.2	60.445 <sup>184</sup>	24.20 <sup>7</sup>	11.629 <sup>322</sup>	52.00 <sup>25</sup>	53.248 <sup>261</sup>	27.05 <sup>19</sup>	28.631 <sup>229</sup>	27.31 <sup>14</sup>
Apr. 10.2	60.274 <sup>171</sup>	24.37 <sup>17</sup>	11.328 <sup>301</sup>	51.38 <sup>62</sup>	53.004 <sup>244</sup>	26.59 <sup>46</sup>	28.417 <sup>214</sup>	26.98 <sup>33</sup>
20.2	60.125 <sup>149</sup>	24.64 <sup>27</sup>	11.063 <sup>265</sup>	50.44 <sup>94</sup>	52.791 <sup>213</sup>	25.88 <sup>71</sup>	28.231 <sup>186</sup>	26.47 <sup>51</sup>
30.1	60.006 <sup>119</sup>	25.03 <sup>39</sup>	10.846 <sup>217</sup>	49.23 <sup>121</sup>	52.619 <sup>172</sup>	24.97 <sup>91</sup>	28.081 <sup>150</sup>	25.81 <sup>66</sup>
Mai 10.1	59.922 <sup>84</sup>	25.54 <sup>51</sup>	10.689 <sup>157</sup>	47.79 <sup>144</sup>	52.496 <sup>123</sup>	23.89 <sup>108</sup>	27.976 <sup>105</sup>	25.05 <sup>76</sup>
20.1	59.878 <sup>44</sup>	26.16 <sup>62</sup>	10.596 <sup>93</sup>	46.18 <sup>161</sup>	52.428 <sup>68</sup>	22.70 <sup>119</sup>	27.919 <sup>57</sup>	24.22 <sup>83</sup>
30.1	59.876 <sup>2</sup>	26.89 <sup>73</sup>	10.573 <sup>23</sup>	44.47 <sup>171</sup>	52.417 <sup>11</sup>	21.44 <sup>126</sup>	27.915 <sup>4</sup>	23.36 <sup>86</sup>
Juni 9.0	59.916 <sup>40</sup>	27.73 <sup>84</sup>	10.621 <sup>48</sup>	42.71 <sup>176</sup>	52.466 <sup>49</sup>	20.17 <sup>127</sup>	27.962 <sup>47</sup>	22.51 <sup>85</sup>
19.0	59.997 <sup>81</sup>	28.66 <sup>93</sup>	10.737 <sup>116</sup>	40.96 <sup>175</sup>	52.571 <sup>105</sup>	18.92 <sup>125</sup>	28.061 <sup>99</sup>	21.69 <sup>82</sup>
29.0	60.117 <sup>120</sup>	29.67 <sup>101</sup>	10.918 <sup>181</sup>	39.28 <sup>168</sup>	52.730 <sup>159</sup>	17.73 <sup>119</sup>	28.207 <sup>146</sup>	20.93 <sup>76</sup>
Juli 9.0	60.272 <sup>155</sup>	30.71 <sup>104</sup>	11.160 <sup>242</sup>	37.70 <sup>158</sup>	52.938 <sup>208</sup>	16.63 <sup>110</sup>	28.397 <sup>190</sup>	20.26 <sup>67</sup>
18.9	60.458 <sup>186</sup>	31.76 <sup>105</sup>	11.455 <sup>295</sup>	36.26 <sup>144</sup>	53.192 <sup>254</sup>	15.65 <sup>98</sup>	28.627 <sup>230</sup>	19.67 <sup>59</sup>
28.9	60.671 <sup>213</sup>	32.78 <sup>102</sup>	11.798 <sup>343</sup>	35.00 <sup>126</sup>	53.483 <sup>291</sup>	14.81 <sup>84</sup>	28.890 <sup>263</sup>	19.19 <sup>48</sup>
Aug. 7.9	60.906 <sup>235</sup>	33.73 <sup>95</sup>	12.181 <sup>383</sup>	33.93 <sup>107</sup>	53.806 <sup>323</sup>	14.11 <sup>70</sup>	29.182 <sup>292</sup>	18.82 <sup>37</sup>
17.8	61.160 <sup>254</sup>	34.58 <sup>85</sup>	12.595 <sup>414</sup>	33.07 <sup>86</sup>	54.155 <sup>349</sup>	13.57 <sup>54</sup>	29.496 <sup>314</sup>	18.55 <sup>27</sup>
27.8	61.427 <sup>267</sup>	35.29 <sup>71</sup>	13.036 <sup>441</sup>	32.44 <sup>63</sup>	54.524 <sup>369</sup>	13.18 <sup>39</sup>	29.827 <sup>331</sup>	18.36 <sup>19</sup>
Sept. 6.8	61.704 <sup>277</sup>	35.82 <sup>53</sup>	13.494 <sup>458</sup>	32.04 <sup>40</sup>	54.907 <sup>383</sup>	12.94 <sup>24</sup>	30.171 <sup>344</sup>	18.28 <sup>8</sup>
16.8	61.986 <sup>282</sup>	36.14 <sup>32</sup>	13.964 <sup>470</sup>	31.87 <sup>17</sup>	55.300 <sup>393</sup>	12.86 <sup>8</sup>	30.523 <sup>352</sup>	18.27 <sup>1</sup>
26.7	62.271 <sup>285</sup>	36.24 <sup>10</sup>	14.439 <sup>475</sup>	31.95 <sup>8</sup>	55.697 <sup>397</sup>	12.94 <sup>8</sup>	30.878 <sup>355</sup>	18.34 <sup>7</sup>
Okt. 6.7	62.554 <sup>283</sup>	36.12 <sup>12</sup>	14.912 <sup>473</sup>	32.27 <sup>32</sup>	56.092 <sup>395</sup>	13.17 <sup>23</sup>	31.233 <sup>355</sup>	18.49 <sup>15</sup>
16.7	62.833 <sup>279</sup>	35.77 <sup>35</sup>	15.377 <sup>465</sup>	32.83 <sup>56</sup>	56.481 <sup>389</sup>	13.56 <sup>39</sup>	31.582 <sup>349</sup>	18.72 <sup>23</sup>
26.7	63.103 <sup>270</sup>	35.22 <sup>55</sup>	15.826 <sup>449</sup>	33.63 <sup>80</sup>	56.859 <sup>378</sup>	14.11 <sup>55</sup>	31.921 <sup>339</sup>	19.04 <sup>32</sup>
Nov. 5.6	63.360 <sup>257</sup>	34.49 <sup>73</sup>	16.252 <sup>426</sup>	34.67 <sup>104</sup>	57.217 <sup>358</sup>	14.81 <sup>70</sup>	32.245 <sup>324</sup>	19.45 <sup>41</sup>
15.6	63.598 <sup>238</sup>	33.63 <sup>86</sup>	16.644 <sup>392</sup>	35.93 <sup>126</sup>	57.550 <sup>333</sup>	15.68 <sup>87</sup>	32.546 <sup>301</sup>	19.66 <sup>51</sup>
25.6	63.812 <sup>214</sup>	32.68 <sup>95</sup>	16.995 <sup>351</sup>	37.41 <sup>148</sup>	57.849 <sup>299</sup>	16.70 <sup>102</sup>	32.817 <sup>271</sup>	20.58 <sup>62</sup>
Dez. 5.5	63.997 <sup>185</sup>	31.69 <sup>99</sup>	17.295 <sup>300</sup>	39.06 <sup>165</sup>	58.107 <sup>258</sup>	17.87 <sup>117</sup>	33.053 <sup>236</sup>	21.31 <sup>73</sup>
15.5	64.146 <sup>149</sup>	30.70 <sup>99</sup>	17.533 <sup>238</sup>	40.87 <sup>181</sup>	58.316 <sup>209</sup>	19.15 <sup>128</sup>	33.244 <sup>191</sup>	22.13 <sup>82</sup>
25.5	64.255 <sup>109</sup>	29.74 <sup>96</sup>	17.702 <sup>169</sup>	42.76 <sup>189</sup>	58.468 <sup>152</sup>	20.52 <sup>137</sup>	33.386 <sup>142</sup>	23.03 <sup>90</sup>
35.5	64.320 <sup>65</sup>	28.87 <sup>87</sup>	17.796 <sup>94</sup>	44.70 <sup>194</sup>	58.557 <sup>89</sup>	21.93 <sup>141</sup>	33.473 <sup>87</sup>	23.98 <sup>95</sup>
Mittl. Ort	60.159	38.27	11.206	50.30	52.841	28.26	28.237	31.13
sec $\delta$ , tg $\delta$	1.008	+0.130	1.713	+1.391	1.413	+0.998	1.256	+0.759

Mittlere Zeit Greenw.	229) $\eta$ Columbae		232) $\nu$ Orionis		236) $\eta$ Geminorum		234) 22 II. Camelop.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	5 <sup>h</sup> 56 <sup>m</sup>	-42° 48'	6 <sup>h</sup> 3 <sup>m</sup>	+14° 46'	6 <sup>h</sup> 10 <sup>m</sup>	+22° 31'	6 <sup>h</sup> 10 <sup>m</sup>	+69° 20'
Jan. 0.5	49.154 <sup>27</sup>	81.27 <sup>309</sup>	II.845 <sup>51</sup>	33.33 <sup>43</sup>	15.154 <sup>62</sup>	39.58 <sup>4</sup>	25.46 <sup>7</sup>	49.81 <sup>263</sup>
10.4	49.127 <sup>86</sup>	84.36 <sup>283</sup>	II.896 <sup>2</sup>	32.90 <sup>34</sup>	15.216 <sup>11</sup>	39.62 <sup>10</sup>	25.53 <sup>5</sup>	52.44 <sup>255</sup>
20.4	49.041 <sup>141</sup>	87.19 <sup>249</sup>	II.898 <sup>45</sup>	32.56 <sup>25</sup>	15.227 <sup>41</sup>	39.72 <sup>16</sup>	25.48 <sup>19</sup>	54.99 <sup>238</sup>
30.4	48.900 <sup>190</sup>	89.68 <sup>210</sup>	II.853 <sup>90</sup>	32.31 <sup>18</sup>	15.186 <sup>38</sup>	39.88 <sup>19</sup>	25.29 <sup>30</sup>	57.37 <sup>212</sup>
Feb. 9.4	48.710 <sup>231</sup>	91.78 <sup>165</sup>	II.763 <sup>128</sup>	32.13 <sup>11</sup>	15.098 <sup>129</sup>	40.07 <sup>19</sup>	24.99 <sup>40</sup>	59.49 <sup>177</sup>
19.3	48.479 <sup>262</sup>	93.43 <sup>118</sup>	II.635 <sup>159</sup>	32.02 <sup>6</sup>	14.969 <sup>162</sup>	40.26 <sup>18</sup>	24.59 <sup>47</sup>	61.26 <sup>136</sup>
März 1.3	48.217 <sup>284</sup>	94.61 <sup>69</sup>	II.476 <sup>180</sup>	31.96 <sup>2</sup>	14.807 <sup>185</sup>	40.44 <sup>13</sup>	24.12 <sup>53</sup>	62.62 <sup>89</sup>
11.3	47.933 <sup>292</sup>	95.30 <sup>19</sup>	II.296 <sup>189</sup>	31.94 <sup>1</sup>	14.622 <sup>197</sup>	40.57 <sup>9</sup>	23.59 <sup>56</sup>	63.51 <sup>39</sup>
21.3	47.641 <sup>290</sup>	95.49 <sup>31</sup>	II.107 <sup>189</sup>	31.95 <sup>4</sup>	14.425 <sup>197</sup>	40.66 <sup>4</sup>	23.03 <sup>57</sup>	63.90 <sup>11</sup>
31.2	47.351 <sup>276</sup>	95.18 <sup>78</sup>	10.918 <sup>177</sup>	31.99 <sup>6</sup>	14.228 <sup>187</sup>	40.70 <sup>2</sup>	22.46 <sup>54</sup>	63.79 <sup>60</sup>
Apr. 10.2	47.075 <sup>252</sup>	94.40 <sup>124</sup>	10.741 <sup>156</sup>	32.05 <sup>10</sup>	14.041 <sup>166</sup>	40.68 <sup>7</sup>	21.92 <sup>48</sup>	63.19 <sup>105</sup>
20.2	46.823 <sup>220</sup>	93.16 <sup>167</sup>	10.585 <sup>127</sup>	32.15 <sup>15</sup>	13.875 <sup>136</sup>	40.61 <sup>9</sup>	21.44 <sup>42</sup>	62.14 <sup>146</sup>
30.1	46.603 <sup>178</sup>	91.49 <sup>206</sup>	10.458 <sup>92</sup>	32.30 <sup>20</sup>	13.739 <sup>100</sup>	40.52 <sup>11</sup>	21.02 <sup>33</sup>	60.68 <sup>180</sup>
Mai 10.1	46.425 <sup>133</sup>	89.43 <sup>240</sup>	10.366 <sup>52</sup>	32.50 <sup>26</sup>	13.639 <sup>59</sup>	40.41 <sup>9</sup>	20.69 <sup>23</sup>	58.88 <sup>208</sup>
20.1	46.292 <sup>83</sup>	87.03 <sup>269</sup>	10.314 <sup>10</sup>	32.76 <sup>33</sup>	13.580 <sup>15</sup>	40.32 <sup>8</sup>	20.46 <sup>13</sup>	56.80 <sup>228</sup>
30.1	46.209 <sup>31</sup>	84.34 <sup>292</sup>	10.304 <sup>33</sup>	33.09 <sup>40</sup>	13.565 <sup>29</sup>	40.24 <sup>3</sup>	20.33 <sup>1</sup>	54.52 <sup>240</sup>
Juni 9.0	46.178 <sup>21</sup>	81.42 <sup>308</sup>	10.337 <sup>75</sup>	33.49 <sup>48</sup>	13.594 <sup>72</sup>	40.21 <sup>1</sup>	20.32 <sup>10</sup>	52.12 <sup>246</sup>
19.0	46.199 <sup>74</sup>	78.34 <sup>314</sup>	10.412 <sup>114</sup>	33.97 <sup>54</sup>	13.666 <sup>114</sup>	40.22 <sup>6</sup>	20.42 <sup>21</sup>	49.66 <sup>243</sup>
29.0	46.273 <sup>122</sup>	75.20 <sup>314</sup>	10.526 <sup>151</sup>	34.51 <sup>58</sup>	13.780 <sup>152</sup>	40.28 <sup>10</sup>	20.63 <sup>31</sup>	47.23 <sup>236</sup>
Juli 9.0	46.395 <sup>169</sup>	72.06 <sup>305</sup>	10.677 <sup>183</sup>	35.09 <sup>61</sup>	13.932 <sup>187</sup>	40.38 <sup>15</sup>	20.94 <sup>40</sup>	44.87 <sup>221</sup>
18.9	46.564 <sup>211</sup>	69.01 <sup>285</sup>	10.860 <sup>212</sup>	35.70 <sup>61</sup>	14.119 <sup>217</sup>	40.53 <sup>17</sup>	21.34 <sup>49</sup>	42.66 <sup>202</sup>
28.9	46.775 <sup>249</sup>	66.16 <sup>257</sup>	II.072 <sup>235</sup>	36.31 <sup>58</sup>	14.336 <sup>242</sup>	40.70 <sup>19</sup>	21.83 <sup>56</sup>	40.64 <sup>179</sup>
Aug. 7.9	47.024 <sup>281</sup>	63.59 <sup>222</sup>	II.307 <sup>255</sup>	36.89 <sup>52</sup>	14.578 <sup>263</sup>	40.89 <sup>18</sup>	22.39 <sup>62</sup>	38.85 <sup>151</sup>
17.8	47.305 <sup>307</sup>	61.37 <sup>177</sup>	II.562 <sup>271</sup>	37.41 <sup>43</sup>	14.841 <sup>280</sup>	41.07 <sup>14</sup>	23.01 <sup>68</sup>	37.34 <sup>122</sup>
27.8	47.612 <sup>326</sup>	59.60 <sup>127</sup>	II.833 <sup>281</sup>	37.84 <sup>33</sup>	15.121 <sup>293</sup>	41.21 <sup>11</sup>	23.69 <sup>72</sup>	36.12 <sup>90</sup>
Sept. 6.8	47.938 <sup>339</sup>	58.33 <sup>70</sup>	12.114 <sup>289</sup>	38.17 <sup>18</sup>	15.414 <sup>301</sup>	41.32 <sup>3</sup>	24.41 <sup>74</sup>	35.22 <sup>55</sup>
16.8	48.277 <sup>345</sup>	57.63 <sup>11</sup>	12.403 <sup>294</sup>	38.35 <sup>4</sup>	15.715 <sup>308</sup>	41.35 <sup>3</sup>	25.15 <sup>76</sup>	34.67 <sup>20</sup>
26.7	48.622 <sup>344</sup>	57.52 <sup>50</sup>	12.697 <sup>294</sup>	38.39 <sup>11</sup>	16.023 <sup>309</sup>	41.32 <sup>10</sup>	25.91 <sup>77</sup>	34.47 <sup>16</sup>
Okt. 6.7	48.966 <sup>335</sup>	58.02 <sup>109</sup>	12.991 <sup>291</sup>	38.28 <sup>26</sup>	16.332 <sup>307</sup>	41.22 <sup>17</sup>	26.68 <sup>75</sup>	34.63 <sup>54</sup>
16.7	49.301 <sup>319</sup>	59.11 <sup>166</sup>	13.282 <sup>285</sup>	38.02 <sup>39</sup>	16.639 <sup>301</sup>	41.05 <sup>22</sup>	27.43 <sup>74</sup>	35.17 <sup>90</sup>
26.7	49.620 <sup>294</sup>	60.77 <sup>217</sup>	13.567 <sup>272</sup>	37.63 <sup>50</sup>	16.940 <sup>291</sup>	40.83 <sup>26</sup>	28.17 <sup>69</sup>	36.07 <sup>126</sup>
Nov. 5.6	49.914 <sup>263</sup>	62.94 <sup>260</sup>	13.839 <sup>255</sup>	37.13 <sup>58</sup>	17.231 <sup>273</sup>	40.57 <sup>27</sup>	28.86 <sup>64</sup>	37.33 <sup>161</sup>
15.6	50.177 <sup>223</sup>	65.54 <sup>294</sup>	14.094 <sup>233</sup>	36.55 <sup>61</sup>	17.504 <sup>250</sup>	40.30 <sup>25</sup>	29.50 <sup>58</sup>	38.94 <sup>194</sup>
25.6	50.400 <sup>177</sup>	68.48 <sup>316</sup>	14.327 <sup>204</sup>	35.94 <sup>62</sup>	17.754 <sup>221</sup>	40.05 <sup>21</sup>	30.08 <sup>48</sup>	40.88 <sup>220</sup>
Dez. 5.5	50.577 <sup>125</sup>	71.64 <sup>328</sup>	14.531 <sup>168</sup>	35.32 <sup>59</sup>	17.975 <sup>185</sup>	39.84 <sup>15</sup>	30.56 <sup>39</sup>	43.08 <sup>243</sup>
15.5	50.702 <sup>68</sup>	74.92 <sup>328</sup>	14.699 <sup>127</sup>	34.73 <sup>53</sup>	18.160 <sup>141</sup>	39.69 <sup>6</sup>	30.95 <sup>28</sup>	45.51 <sup>258</sup>
25.5	50.770 <sup>10</sup>	78.20 <sup>318</sup>	14.826 <sup>82</sup>	34.20 <sup>46</sup>	18.301 <sup>95</sup>	39.63 <sup>1</sup>	31.23 <sup>15</sup>	48.09 <sup>266</sup>
35.5	50.780	81.38	14.908	33.74	18.396	39.64	31.38	50.75
Mittl. Ort sec $\delta$ , $\tan \delta$	47.383 1.363	68.18 -0.927	10.546 1.034	43.69 +0.264	13.800 1.083	49.74 +0.415	21.88 2.836	57.98 +2.654

Mittlere Zeit Greenw.	240) $\zeta$ Canis maj.		241) $\mu$ Geminorum		242) $\psi^1$ Aurigae		243) $\beta$ Canis maj.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	6 <sup>h</sup> 17 <sup>m</sup>	-30° 1'	6 <sup>h</sup> 18 <sup>m</sup>	+22° 33'	6 <sup>h</sup> 18 <sup>m</sup>	+49° 19'	6 <sup>h</sup> 19 <sup>m</sup>	-17° 54'
Jan. 0.5	22.925 <sup>23</sup>	53.43 <sup>279</sup>	19.520 <sup>71</sup>	5.74 <sup>2</sup>	60.086 <sup>84</sup>	34.61 <sup>163</sup>	19.877 <sup>41</sup>	71.50 <sup>229</sup>
10.4	22.948 <sup>30</sup>	56.22 <sup>258</sup>	19.591 <sup>19</sup>	5.76 <sup>10</sup>	60.170 <sup>12</sup>	36.24 <sup>163</sup>	19.918 <sup>9</sup>	73.79 <sup>210</sup>
20.4	22.918 <sup>80</sup>	58.80 <sup>231</sup>	19.610 <sup>33</sup>	5.86 <sup>16</sup>	60.182 <sup>59</sup>	37.87 <sup>157</sup>	19.909 <sup>55</sup>	75.89 <sup>186</sup>
30.4	22.838 <sup>127</sup>	61.11 <sup>197</sup>	19.577 <sup>81</sup>	6.02 <sup>20</sup>	60.123 <sup>126</sup>	39.44 <sup>143</sup>	19.854 <sup>101</sup>	77.75 <sup>158</sup>
Feb. 9.4	22.711 <sup>167</sup>	63.08 <sup>159</sup>	19.496 <sup>124</sup>	6.22 <sup>21</sup>	59.997 <sup>185</sup>	40.87 <sup>124</sup>	19.753 <sup>139</sup>	79.33 <sup>127</sup>
19.3	22.544 <sup>199</sup>	64.67 <sup>120</sup>	19.372 <sup>158</sup>	6.43 <sup>21</sup>	59.812 <sup>233</sup>	42.11 <sup>99</sup>	19.614 <sup>169</sup>	80.60 <sup>95</sup>
März 1.3	22.345 <sup>221</sup>	65.87 <sup>77</sup>	19.214 <sup>182</sup>	6.64 <sup>17</sup>	59.579 <sup>266</sup>	43.10 <sup>69</sup>	19.445 <sup>192</sup>	81.55 <sup>61</sup>
11.3	22.124 <sup>234</sup>	66.64 <sup>35</sup>	19.032 <sup>196</sup>	6.81 <sup>12</sup>	59.313 <sup>285</sup>	43.79 <sup>37</sup>	19.253 <sup>204</sup>	82.16 <sup>21</sup>
21.3	21.890 <sup>235</sup>	66.99 <sup>7</sup>	18.836 <sup>197</sup>	6.93 <sup>7</sup>	59.028 <sup>288</sup>	44.16 <sup>4</sup>	19.049 <sup>205</sup>	82.43 <sup>7</sup>
31.2	21.655 <sup>226</sup>	66.92 <sup>49</sup>	18.639 <sup>188</sup>	7.00 <sup>1</sup>	58.740 <sup>276</sup>	44.20 <sup>28</sup>	18.844 <sup>197</sup>	82.36 <sup>41</sup>
Apr. 10.2	21.429 <sup>208</sup>	66.43 <sup>90</sup>	18.451 <sup>168</sup>	7.01 <sup>4</sup>	58.464 <sup>249</sup>	43.92 <sup>59</sup>	18.647 <sup>180</sup>	81.95 <sup>72</sup>
20.2	21.221 <sup>181</sup>	65.53 <sup>128</sup>	18.283 <sup>141</sup>	6.97 <sup>7</sup>	58.215 <sup>211</sup>	43.33 <sup>86</sup>	18.467 <sup>155</sup>	81.23 <sup>103</sup>
30.1	21.040 <sup>148</sup>	64.25 <sup>163</sup>	18.142 <sup>105</sup>	6.90 <sup>9</sup>	58.004 <sup>162</sup>	42.47 <sup>109</sup>	18.312 <sup>122</sup>	80.20 <sup>131</sup>
Mai 10.1	20.892 <sup>109</sup>	62.62 <sup>195</sup>	18.037 <sup>65</sup>	6.81 <sup>9</sup>	57.842 <sup>107</sup>	41.38 <sup>127</sup>	18.190 <sup>87</sup>	78.89 <sup>158</sup>
20.1	20.783 <sup>68</sup>	60.67 <sup>222</sup>	17.972 <sup>22</sup>	6.72 <sup>7</sup>	57.735 <sup>48</sup>	40.11 <sup>140</sup>	18.103 <sup>47</sup>	77.31 <sup>180</sup>
30.1	20.715 <sup>23</sup>	58.45 <sup>245</sup>	17.950 <sup>22</sup>	6.65 <sup>5</sup>	57.687 <sup>14</sup>	38.71 <sup>148</sup>	18.056 <sup>7</sup>	75.51 <sup>199</sup>
Juni 9.0	20.692 <sup>20</sup>	56.00 <sup>261</sup>	17.972 <sup>65</sup>	6.60 <sup>1</sup>	57.701 <sup>75</sup>	37.23 <sup>152</sup>	18.049 <sup>35</sup>	73.52 <sup>213</sup>
19.0	20.712 <sup>65</sup>	53.39 <sup>271</sup>	18.037 <sup>106</sup>	6.59 <sup>4</sup>	57.776 <sup>133</sup>	35.71 <sup>150</sup>	18.084 <sup>74</sup>	71.39 <sup>223</sup>
29.0	20.777 <sup>105</sup>	50.68 <sup>274</sup>	18.143 <sup>145</sup>	6.63 <sup>7</sup>	57.909 <sup>188</sup>	34.21 <sup>144</sup>	18.158 <sup>111</sup>	69.16 <sup>225</sup>
Juli 9.0	20.882 <sup>145</sup>	47.94 <sup>269</sup>	18.288 <sup>180</sup>	6.70 <sup>11</sup>	58.097 <sup>239</sup>	32.77 <sup>136</sup>	18.269 <sup>147</sup>	66.91 <sup>222</sup>
18.9	21.027 <sup>180</sup>	45.25 <sup>256</sup>	18.468 <sup>209</sup>	6.81 <sup>13</sup>	58.336 <sup>283</sup>	31.41 <sup>124</sup>	18.416 <sup>178</sup>	64.69 <sup>211</sup>
28.9	21.207 <sup>213</sup>	42.69 <sup>233</sup>	18.677 <sup>237</sup>	6.94 <sup>13</sup>	58.619 <sup>321</sup>	30.17 <sup>111</sup>	18.594 <sup>205</sup>	62.58 <sup>192</sup>
Aug. 7.9	21.420 <sup>239</sup>	40.36 <sup>205</sup>	18.914 <sup>258</sup>	7.07 <sup>12</sup>	58.940 <sup>354</sup>	29.06 <sup>96</sup>	18.799 <sup>228</sup>	60.66 <sup>171</sup>
17.8	21.659 <sup>262</sup>	38.31 <sup>168</sup>	19.172 <sup>276</sup>	7.19 <sup>10</sup>	59.294 <sup>380</sup>	28.10 <sup>80</sup>	19.027 <sup>249</sup>	58.95 <sup>139</sup>
27.8	21.921 <sup>281</sup>	36.63 <sup>124</sup>	19.448 <sup>289</sup>	7.29 <sup>4</sup>	59.674 <sup>401</sup>	27.30 <sup>61</sup>	19.276 <sup>265</sup>	57.56 <sup>102</sup>
Sept. 6.8	22.202 <sup>294</sup>	35.39 <sup>76</sup>	19.737 <sup>300</sup>	7.33 <sup>2</sup>	60.075 <sup>417</sup>	26.69 <sup>44</sup>	19.541 <sup>276</sup>	56.54 <sup>62</sup>
16.8	22.496 <sup>302</sup>	34.63 <sup>24</sup>	20.037 <sup>307</sup>	7.31 <sup>9</sup>	60.492 <sup>426</sup>	26.25 <sup>25</sup>	19.817 <sup>282</sup>	55.92 <sup>18</sup>
26.7	22.798 <sup>306</sup>	34.39 <sup>31</sup>	20.344 <sup>310</sup>	7.22 <sup>17</sup>	60.918 <sup>432</sup>	26.00 <sup>6</sup>	20.100 <sup>287</sup>	55.74 <sup>29</sup>
Okt. 6.7	23.104 <sup>303</sup>	34.70 <sup>84</sup>	20.654 <sup>309</sup>	7.05 <sup>23</sup>	61.350 <sup>429</sup>	25.94 <sup>15</sup>	20.387 <sup>286</sup>	56.03 <sup>73</sup>
16.7	23.407 <sup>295</sup>	35.54 <sup>136</sup>	20.963 <sup>305</sup>	6.82 <sup>28</sup>	61.779 <sup>422</sup>	26.09 <sup>36</sup>	20.673 <sup>279</sup>	56.76 <sup>116</sup>
26.7	23.702 <sup>280</sup>	36.90 <sup>183</sup>	21.268 <sup>295</sup>	6.54 <sup>32</sup>	62.201 <sup>406</sup>	26.45 <sup>58</sup>	20.952 <sup>268</sup>	57.92 <sup>156</sup>
Nov. 5.6	23.982 <sup>258</sup>	38.73 <sup>223</sup>	21.563 <sup>279</sup>	6.22 <sup>32</sup>	62.607 <sup>383</sup>	27.03 <sup>80</sup>	21.220 <sup>250</sup>	59.48 <sup>189</sup>
15.6	24.240 <sup>229</sup>	40.96 <sup>255</sup>	21.842 <sup>258</sup>	5.90 <sup>30</sup>	62.990 <sup>349</sup>	27.83 <sup>101</sup>	21.470 <sup>226</sup>	61.37 <sup>214</sup>
25.6	24.469 <sup>195</sup>	43.51 <sup>278</sup>	22.100 <sup>228</sup>	5.60 <sup>25</sup>	63.339 <sup>308</sup>	28.84 <sup>121</sup>	21.696 <sup>195</sup>	63.51 <sup>233</sup>
Dez. 5.5	24.664 <sup>153</sup>	46.29 <sup>290</sup>	22.328 <sup>193</sup>	5.35 <sup>18</sup>	63.647 <sup>257</sup>	30.05 <sup>139</sup>	21.891 <sup>159</sup>	65.84 <sup>241</sup>
15.5	24.817 <sup>106</sup>	49.19 <sup>293</sup>	22.521 <sup>150</sup>	5.17 <sup>10</sup>	63.904 <sup>197</sup>	31.44 <sup>153</sup>	22.050 <sup>118</sup>	68.25 <sup>242</sup>
25.5	24.923 <sup>56</sup>	52.12 <sup>286</sup>	22.671 <sup>103</sup>	5.07 <sup>0</sup>	64.101 <sup>130</sup>	32.97 <sup>163</sup>	22.168 <sup>70</sup>	70.67 <sup>235</sup>
35.5	24.979	54.98	22.774	5.07	64.231	34.60	22.238	73.02
Mittl. Ort sec $\delta$ , tg $\delta$	21.391 1.155	41.75 -0.578	18.170 1.083	16.13 +0.415	58.190 1.534	44.11 +1.164	18.504 1.051	60.08 -0.323



# Obere Kulmination Greenwich

Mittlere Zur Greenw.	244) 8 Monocerotis		245) α Argus		246) 10 Monocerotis		247) 8 Lynxis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	6 <sup>h</sup> 19 <sup>m</sup>	+4° 37'	6 <sup>h</sup> 22 <sup>m</sup>	-52° 39'	6 <sup>h</sup> 24 <sup>m</sup>	-4° 42'	6 <sup>h</sup> 30 <sup>m</sup>	+61° 32'
Jan. 0.5	42.562 <sup>60</sup>	48.16 <sup>107</sup>	16.770 <sup>24</sup>	22.68 <sup>343</sup>	10.728 <sup>57</sup>	59.58 <sup>162</sup>	41.99 <sup>11</sup>	53.03 <sup>225</sup>
10.5	42.622 <sup>13</sup>	47.09 <sup>95</sup>	16.746 <sup>95</sup>	26.11 <sup>319</sup>	10.785 <sup>10</sup>	61.20 <sup>147</sup>	42.10 <sup>2</sup>	55.28 <sup>226</sup>
20.4	42.635 <sup>35</sup>	46.14 <sup>79</sup>	16.651 <sup>162</sup>	29.30 <sup>289</sup>	10.795 <sup>37</sup>	62.67 <sup>128</sup>	42.12 <sup>8</sup>	57.54 <sup>216</sup>
30.4	42.600 <sup>79</sup>	45.35 <sup>64</sup>	16.489 <sup>224</sup>	32.19 <sup>250</sup>	10.758 <sup>81</sup>	63.95 <sup>107</sup>	42.04 <sup>18</sup>	59.70 <sup>199</sup>
Feb. 9.4	42.521 <sup>117</sup>	44.71 <sup>48</sup>	16.265 <sup>276</sup>	34.69 <sup>206</sup>	10.677 <sup>119</sup>	65.02 <sup>84</sup>	41.86 <sup>25</sup>	61.69 <sup>173</sup>
19.3	42.404 <sup>150</sup>	44.23 <sup>33</sup>	15.989 <sup>317</sup>	36.75 <sup>158</sup>	10.558 <sup>152</sup>	65.86 <sup>61</sup>	41.61 <sup>32</sup>	63.42 <sup>140</sup>
März 1.3	42.254 <sup>171</sup>	43.90 <sup>20</sup>	15.672 <sup>347</sup>	38.33 <sup>107</sup>	10.406 <sup>174</sup>	66.47 <sup>39</sup>	41.29 <sup>37</sup>	64.82 <sup>101</sup>
11.3	42.083 <sup>184</sup>	43.70 <sup>5</sup>	15.325 <sup>362</sup>	39.40 <sup>54</sup>	10.232 <sup>187</sup>	66.86 <sup>16</sup>	40.92 <sup>40</sup>	65.83 <sup>59</sup>
21.3	41.899 <sup>186</sup>	43.65 <sup>8</sup>	14.963 <sup>366</sup>	39.94 <sup>2</sup>	10.045 <sup>189</sup>	67.02 <sup>7</sup>	40.52 <sup>40</sup>	66.42 <sup>16</sup>
31.2	41.713 <sup>178</sup>	43.73 <sup>21</sup>	14.597 <sup>357</sup>	39.96 <sup>50</sup>	9.856 <sup>181</sup>	66.95 <sup>29</sup>	40.12 <sup>40</sup>	66.58 <sup>28</sup>
Apr. 10.2	41.535 <sup>159</sup>	43.94 <sup>33</sup>	14.240 <sup>334</sup>	39.46 <sup>101</sup>	9.675 <sup>165</sup>	66.66 <sup>49</sup>	39.72 <sup>36</sup>	66.30 <sup>70</sup>
20.2	41.376 <sup>135</sup>	44.27 <sup>47</sup>	13.906 <sup>303</sup>	38.45 <sup>148</sup>	9.510 <sup>141</sup>	66.17 <sup>70</sup>	39.36 <sup>32</sup>	65.60 <sup>108</sup>
30.2	41.241 <sup>102</sup>	44.74 <sup>58</sup>	13.603 <sup>261</sup>	36.97 <sup>192</sup>	9.369 <sup>110</sup>	65.47 <sup>90</sup>	39.04 <sup>26</sup>	64.52 <sup>140</sup>
Mai 10.1	41.139 <sup>66</sup>	45.32 <sup>71</sup>	13.342 <sup>212</sup>	35.05 <sup>231</sup>	9.259 <sup>74</sup>	64.57 <sup>108</sup>	38.78 <sup>19</sup>	63.12 <sup>168</sup>
20.1	41.073 <sup>27</sup>	46.03 <sup>82</sup>	13.130 <sup>158</sup>	32.74 <sup>266</sup>	9.185 <sup>36</sup>	63.49 <sup>124</sup>	38.59 <sup>11</sup>	61.44 <sup>189</sup>
30.1	41.046 <sup>14</sup>	46.85 <sup>93</sup>	12.972 <sup>100</sup>	30.08 <sup>293</sup>	9.149 <sup>3</sup>	62.25 <sup>138</sup>	38.48 <sup>2</sup>	59.55 <sup>204</sup>
Juni 9.0	41.060 <sup>53</sup>	47.78 <sup>101</sup>	12.872 <sup>40</sup>	27.15 <sup>314</sup>	9.152 <sup>42</sup>	60.87 <sup>149</sup>	38.46 <sup>5</sup>	57.51 <sup>212</sup>
19.0	41.113 <sup>92</sup>	48.79 <sup>108</sup>	12.832 <sup>22</sup>	24.01 <sup>327</sup>	9.194 <sup>81</sup>	59.38 <sup>157</sup>	38.51 <sup>14</sup>	55.39 <sup>214</sup>
29.0	41.205 <sup>126</sup>	49.87 <sup>111</sup>	12.854 <sup>82</sup>	20.74 <sup>329</sup>	9.275 <sup>116</sup>	57.81 <sup>161</sup>	38.65 <sup>21</sup>	53.25 <sup>211</sup>
Juli 9.0	41.331 <sup>160</sup>	50.98 <sup>110</sup>	12.936 <sup>141</sup>	17.45 <sup>325</sup>	9.391 <sup>148</sup>	56.20 <sup>158</sup>	38.86 <sup>28</sup>	51.14 <sup>202</sup>
18.9	41.491 <sup>188</sup>	52.08 <sup>107</sup>	13.077 <sup>195</sup>	14.20 <sup>309</sup>	9.539 <sup>179</sup>	54.62 <sup>152</sup>	39.14 <sup>34</sup>	49.12 <sup>189</sup>
28.9	41.679 <sup>213</sup>	53.15 <sup>98</sup>	13.272 <sup>246</sup>	11.11 <sup>285</sup>	9.718 <sup>203</sup>	53.10 <sup>139</sup>	39.48 <sup>40</sup>	47.23 <sup>172</sup>
Aug. 7.9	41.892 <sup>234</sup>	54.13 <sup>86</sup>	13.518 <sup>291</sup>	8.26 <sup>250</sup>	9.921 <sup>226</sup>	51.71 <sup>123</sup>	39.88 <sup>45</sup>	45.51 <sup>152</sup>
17.9	42.126 <sup>250</sup>	54.99 <sup>71</sup>	13.809 <sup>331</sup>	5.76 <sup>208</sup>	10.147 <sup>244</sup>	50.48 <sup>100</sup>	40.33 <sup>50</sup>	43.99 <sup>129</sup>
27.8	42.376 <sup>264</sup>	55.70 <sup>50</sup>	14.140 <sup>361</sup>	3.68 <sup>156</sup>	10.391 <sup>258</sup>	49.48 <sup>73</sup>	40.83 <sup>52</sup>	42.70 <sup>104</sup>
Sept. 6.8	42.640 <sup>275</sup>	56.20 <sup>27</sup>	14.501 <sup>386</sup>	2.12 <sup>100</sup>	10.649 <sup>270</sup>	48.75 <sup>42</sup>	41.35 <sup>55</sup>	41.66 <sup>77</sup>
16.8	42.915 <sup>281</sup>	56.47 <sup>2</sup>	14.887 <sup>400</sup>	1.12 <sup>38</sup>	10.919 <sup>277</sup>	48.33 <sup>8</sup>	41.90 <sup>56</sup>	40.89 <sup>48</sup>
26.7	43.196 <sup>284</sup>	56.49 <sup>23</sup>	15.287 <sup>405</sup>	0.74 <sup>25</sup>	11.196 <sup>281</sup>	48.25 <sup>25</sup>	42.46 <sup>58</sup>	40.41 <sup>18</sup>
Okt. 6.7	43.480 <sup>284</sup>	56.26 <sup>48</sup>	15.692 <sup>401</sup>	0.99 <sup>90</sup>	11.477 <sup>281</sup>	48.50 <sup>59</sup>	43.04 <sup>58</sup>	40.23 <sup>13</sup>
16.7	43.764 <sup>280</sup>	55.78 <sup>71</sup>	16.093 <sup>386</sup>	1.89 <sup>152</sup>	11.758 <sup>277</sup>	49.09 <sup>92</sup>	43.62 <sup>57</sup>	40.36 <sup>45</sup>
26.7	44.044 <sup>270</sup>	55.07 <sup>91</sup>	16.479 <sup>360</sup>	3.41 <sup>208</sup>	12.035 <sup>267</sup>	50.01 <sup>121</sup>	44.19 <sup>54</sup>	40.81 <sup>78</sup>
Nov. 5.6	44.314 <sup>255</sup>	54.16 <sup>108</sup>	16.839 <sup>325</sup>	5.49 <sup>259</sup>	12.302 <sup>253</sup>	51.22 <sup>144</sup>	44.73 <sup>52</sup>	41.59 <sup>110</sup>
15.6	44.569 <sup>234</sup>	53.08 <sup>119</sup>	17.164 <sup>279</sup>	8.08 <sup>299</sup>	12.555 <sup>232</sup>	52.66 <sup>161</sup>	45.25 <sup>47</sup>	42.69 <sup>140</sup>
25.6	44.803 <sup>208</sup>	51.89 <sup>124</sup>	17.443 <sup>223</sup>	11.07 <sup>329</sup>	12.787 <sup>204</sup>	54.27 <sup>173</sup>	45.72 <sup>42</sup>	44.09 <sup>169</sup>
Dez. 5.6	45.011 <sup>173</sup>	50.65 <sup>125</sup>	17.666 <sup>161</sup>	14.36 <sup>347</sup>	12.991 <sup>172</sup>	56.00 <sup>178</sup>	46.14 <sup>34</sup>	45.78 <sup>193</sup>
15.5	45.184 <sup>135</sup>	49.40 <sup>120</sup>	17.827 <sup>93</sup>	17.83 <sup>353</sup>	13.163 <sup>131</sup>	57.78 <sup>176</sup>	46.48 <sup>27</sup>	47.71 <sup>212</sup>
25.5	45.319 <sup>90</sup>	48.20 <sup>112</sup>	17.920 <sup>22</sup>	21.36 <sup>348</sup>	13.294 <sup>87</sup>	59.54 <sup>167</sup>	46.75 <sup>17</sup>	49.83 <sup>224</sup>
35.5	45.409	47.08	17.942	24.84	13.381	61.21	46.92	52.07
Mittl. Ort	41.290	59.10	14.482	11.27	9.438	48.47	39.44	62.95
sec δ, tg δ	1.003	+0.081	1.648	-1.310	1.003	-0.082	2.099	+1.846

Mittlere Zeit Greenw.	249) $\xi^3$ Canis maj.		248) 23 II. Camelop.		251) $\gamma$ Geminorum		250) 5I Aurigae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	6 <sup>h</sup> 31 <sup>m</sup>	-22° 54'	6 <sup>h</sup> 33 <sup>m</sup>	+79° 38'	6 <sup>h</sup> 33 <sup>m</sup>	+16° 27'	6 <sup>h</sup> 33 <sup>m</sup>	+39° 27'
Jan. 0.5	51.175 <sub>48</sub>	21.36 <sub>256</sub>	14.04 <sub>18</sub>	55.55 <sub>300</sub>	17.161 <sub>82</sub>	47.65 <sub>39</sub>	21.064 <sub>97</sub>	26.13 <sub>104</sub>
10.5	51.223 <sub>3</sub>	23.92 <sub>237</sub>	14.22 <sub>8</sub>	58.55 <sub>297</sub>	17.243 <sub>31</sub>	47.26 <sub>28</sub>	21.161 <sub>36</sub>	27.17 <sub>110</sub>
20.4	51.220 <sub>53</sub>	26.29 <sub>213</sub>	14.14 <sub>32</sub>	61.52 <sub>283</sub>	17.274 <sub>18</sub>	46.98 <sub>17</sub>	21.197 <sub>27</sub>	28.27 <sub>110</sub>
30.4	51.167 <sub>99</sub>	28.42 <sub>183</sub>	13.82 <sub>55</sub>	64.35 <sub>257</sub>	17.256 <sub>67</sub>	46.81 <sub>8</sub>	21.170 <sub>85</sub>	29.37 <sub>105</sub>
Feb. 9.4	51.068 <sub>140</sub>	30.25 <sub>151</sub>	13.27 <sub>75</sub>	66.92 <sub>222</sub>	17.189 <sub>110</sub>	46.73 <sub>0</sub>	21.085 <sub>139</sub>	30.42 <sub>95</sub>
19.3	50.928 <sub>173</sub>	31.76 <sub>114</sub>	12.52 <sub>92</sub>	69.14 <sub>179</sub>	17.079 <sub>144</sub>	46.73 <sub>5</sub>	20.946 <sub>181</sub>	31.37 <sub>81</sub>
März 1.3	50.755 <sub>197</sub>	32.90 <sub>78</sub>	11.60 <sub>105</sub>	70.93 <sub>127</sub>	16.935 <sub>171</sub>	46.78 <sub>8</sub>	20.765 <sub>214</sub>	32.18 <sub>62</sub>
11.3	50.558 <sub>211</sub>	33.68 <sub>40</sub>	10.55 <sub>111</sub>	72.20 <sub>73</sub>	16.764 <sub>186</sub>	46.86 <sub>11</sub>	20.551 <sub>233</sub>	32.80 <sub>41</sub>
21.3	50.347 <sub>215</sub>	34.08 <sub>3</sub>	9.44 <sub>115</sub>	72.93 <sub>16</sub>	16.578 <sub>190</sub>	46.97 <sub>12</sub>	20.318 <sub>238</sub>	33.21 <sub>17</sub>
31.2	50.132 <sub>209</sub>	34.11 <sub>34</sub>	8.29 <sub>112</sub>	73.09 <sub>40</sub>	16.388 <sub>183</sub>	47.09 <sub>13</sub>	20.080 <sub>231</sub>	33.38 <sub>6</sub>
Apr. 10.2	49.923 <sub>193</sub>	33.77 <sub>71</sub>	7.17 <sub>105</sub>	72.69 <sub>94</sub>	16.205 <sub>168</sub>	47.22 <sub>13</sub>	19.849 <sub>212</sub>	33.32 <sub>28</sub>
20.2	49.730 <sub>170</sub>	33.06 <sub>104</sub>	6.12 <sub>94</sub>	71.75 <sub>143</sub>	16.037 <sub>142</sub>	47.35 <sub>14</sub>	19.637 <sub>180</sub>	33.04 <sub>48</sub>
30.2	49.560 <sub>138</sub>	32.02 <sub>137</sub>	5.18 <sub>79</sub>	70.32 <sub>187</sub>	15.895 <sub>111</sub>	47.49 <sub>17</sub>	19.457 <sub>142</sub>	32.56 <sub>66</sub>
Mai 10.1	49.422 <sub>104</sub>	30.65 <sub>166</sub>	4.39 <sub>62</sub>	68.45 <sub>223</sub>	15.784 <sub>74</sub>	47.66 <sub>20</sub>	19.315 <sub>96</sub>	31.90 <sub>79</sub>
20.1	49.318 <sub>66</sub>	28.99 <sub>191</sub>	3.77 <sub>42</sub>	66.22 <sub>252</sub>	15.710 <sub>34</sub>	47.86 <sub>23</sub>	19.219 <sub>47</sub>	31.11 <sub>89</sub>
30.1	49.252 <sub>24</sub>	27.08 <sub>213</sub>	3.35 <sub>22</sub>	63.70 <sub>272</sub>	15.676 <sub>7</sub>	48.09 <sub>28</sub>	19.172 <sub>4</sub>	30.22 <sub>96</sub>
Juni 9.0	49.228 <sub>17</sub>	24.95 <sub>229</sub>	3.13 <sub>0</sub>	60.98 <sub>284</sub>	15.683 <sub>48</sub>	48.37 <sub>32</sub>	19.176 <sub>54</sub>	29.26 <sub>99</sub>
19.0	49.245 <sub>57</sub>	22.66 <sub>240</sub>	3.13 <sub>21</sub>	58.14 <sub>288</sub>	15.731 <sub>88</sub>	48.69 <sub>36</sub>	19.230 <sub>105</sub>	28.27 <sub>98</sub>
29.0	49.302 <sub>96</sub>	20.26 <sub>243</sub>	3.34 <sub>41</sub>	55.26 <sub>284</sub>	15.819 <sub>124</sub>	49.05 <sub>38</sub>	19.335 <sub>150</sub>	27.29 <sub>96</sub>
Juli 9.0	49.398 <sub>133</sub>	17.83 <sub>241</sub>	3.75 <sub>60</sub>	52.42 <sub>274</sub>	15.943 <sub>159</sub>	49.43 <sub>40</sub>	19.485 <sub>193</sub>	26.33 <sub>92</sub>
18.9	49.531 <sub>166</sub>	15.42 <sub>230</sub>	4.35 <sub>79</sub>	49.68 <sub>257</sub>	16.102 <sub>188</sub>	49.83 <sub>39</sub>	19.678 <sub>230</sub>	25.41 <sub>86</sub>
28.9	49.697 <sub>196</sub>	13.12 <sub>213</sub>	5.14 <sub>95</sub>	47.11 <sub>234</sub>	16.290 <sub>215</sub>	50.22 <sub>36</sub>	19.908 <sub>265</sub>	24.55 <sub>78</sub>
Aug. 7.9	49.893 <sub>222</sub>	10.99 <sub>188</sub>	6.09 <sub>109</sub>	44.77 <sub>207</sub>	16.505 <sub>238</sub>	50.58 <sub>31</sub>	20.173 <sub>292</sub>	23.77 <sub>70</sub>
17.9	50.115 <sub>245</sub>	9.11 <sub>155</sub>	7.18 <sub>121</sub>	42.70 <sub>175</sub>	16.743 <sub>256</sub>	50.89 <sub>22</sub>	20.465 <sub>316</sub>	23.07 <sub>62</sub>
27.8	50.360 <sub>263</sub>	7.56 <sub>117</sub>	8.39 <sub>131</sub>	40.95 <sub>139</sub>	16.999 <sub>272</sub>	51.11 <sub>12</sub>	20.781 <sub>335</sub>	22.45 <sub>53</sub>
Sept. 6.8	50.623 <sub>277</sub>	6.39 <sub>74</sub>	9.70 <sub>139</sub>	39.56 <sub>102</sub>	17.271 <sub>284</sub>	51.23 <sub>0</sub>	21.116 <sub>351</sub>	21.92 <sub>45</sub>
16.8	50.900 <sub>288</sub>	5.65 <sub>26</sub>	11.09 <sub>143</sub>	38.54 <sub>60</sub>	17.555 <sub>293</sub>	51.23 <sub>14</sub>	21.467 <sub>362</sub>	21.47 <sub>36</sub>
26.7	51.188 <sub>293</sub>	5.39 <sub>23</sub>	12.52 <sub>146</sub>	37.94 <sub>17</sub>	17.848 <sub>298</sub>	51.09 <sub>27</sub>	21.829 <sub>367</sub>	21.11 <sub>26</sub>
Okt. 6.7	51.481 <sub>294</sub>	5.62 <sub>72</sub>	13.98 <sub>146</sub>	37.77 <sub>27</sub>	18.146 <sub>300</sub>	50.82 <sub>40</sub>	22.196 <sub>371</sub>	20.85 <sub>15</sub>
16.7	51.775 <sub>289</sub>	6.34 <sub>120</sub>	15.44 <sub>143</sub>	38.04 <sub>71</sub>	18.446 <sub>298</sub>	50.42 <sub>51</sub>	22.567 <sub>367</sub>	20.70 <sub>3</sub>
26.7	52.064 <sub>279</sub>	7.54 <sub>163</sub>	16.87 <sub>136</sub>	38.75 <sub>116</sub>	18.744 <sub>291</sub>	49.91 <sub>61</sub>	22.934 <sub>357</sub>	20.67 <sub>11</sub>
Nov. 5.6	52.343 <sub>261</sub>	9.17 <sub>201</sub>	18.23 <sub>126</sub>	39.91 <sub>158</sub>	19.035 <sub>278</sub>	49.30 <sub>66</sub>	23.291 <sub>340</sub>	20.78 <sub>26</sub>
15.6	52.604 <sub>238</sub>	11.18 <sub>230</sub>	19.49 <sub>114</sub>	41.49 <sub>199</sub>	19.313 <sub>258</sub>	48.64 <sub>68</sub>	23.631 <sub>317</sub>	21.04 <sub>42</sub>
25.6	52.842 <sub>207</sub>	13.48 <sub>252</sub>	20.63 <sub>98</sub>	43.48 <sub>234</sub>	19.571 <sub>232</sub>	47.96 <sub>67</sub>	23.948 <sub>283</sub>	21.46 <sub>58</sub>
Dez. 5.6	53.049 <sub>169</sub>	16.00 <sub>264</sub>	21.61 <sub>79</sub>	45.82 <sub>265</sub>	19.803 <sub>199</sub>	47.29 <sub>61</sub>	24.231 <sub>242</sub>	22.04 <sub>74</sub>
15.5	53.218 <sub>127</sub>	18.64 <sub>268</sub>	22.40 <sub>57</sub>	48.47 <sub>287</sub>	20.002 <sub>159</sub>	46.68 <sub>53</sub>	24.473 <sub>192</sub>	22.78 <sub>89</sub>
25.5	53.345 <sub>79</sub>	21.32 <sub>261</sub>	22.97 <sub>33</sub>	51.34 <sub>300</sub>	20.161 <sub>113</sub>	46.15 <sub>43</sub>	24.665 <sub>137</sub>	23.67 <sub>101</sub>
35.5	53.424	23.93	23.30	54.34	20.274	45.72	24.802	24.68
Mittl. Ort sec $\delta$ , tg $\delta$	49.727 1.086	10.38 -0.423	7.26 5.567	65.22 +5.476	15.864 1.043	58.50 +0.296	19.491 1.295	36.68 +0.823

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	252) $\nu$ Argus		253) $S$ Monocerotis		254) $\epsilon$ Geminorum		256) $\xi$ Geminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	$6^h 35^m$	$-43^{\circ} 7'$	$6^h 36^m$	$+9^{\circ} 57'$	$6^h 39^m$	$+25^{\circ} 12'$	$6^h 40^m$	$+12^{\circ} 58'$
1923								
Jan. 0.5	26.196 <sub>21</sub>	50.93 <sub>329</sub>	45.569 <sub>80</sub>	54.44 <sub>80</sub>	13.121 <sub>94</sub>	20.44 <sub>15</sub>	59.388 <sub>87</sub>	36.27 <sub>63</sub>
10.5	26.217 <sub>41</sub>	54.22 <sub>309</sub>	45.649 <sub>33</sub>	53.64 <sub>67</sub>	13.215 <sub>41</sub>	20.59 <sub>25</sub>	59.475 <sub>37</sub>	35.64 <sub>51</sub>
20.4	26.176 <sub>100</sub>	57.31 <sub>281</sub>	45.682 <sub>18</sub>	52.97 <sub>53</sub>	13.256 <sub>13</sub>	20.84 <sub>32</sub>	59.512 <sub>13</sub>	35.13 <sub>37</sub>
30.4	26.076 <sub>155</sub>	60.12 <sub>245</sub>	45.664 <sub>64</sub>	52.44 <sub>40</sub>	13.243 <sub>65</sub>	21.16 <sub>37</sub>	59.499 <sub>60</sub>	34.76 <sub>26</sub>
Feb. 9.4	25.921 <sub>202</sub>	62.57 <sub>206</sub>	45.600 <sub>106</sub>	52.04 <sub>28</sub>	13.178 <sub>111</sub>	21.53 <sub>39</sub>	59.439 <sub>104</sub>	34.50 <sub>15</sub>
19.4	25.719 <sub>242</sub>	64.63 <sub>160</sub>	45.494 <sub>140</sub>	51.76 <sub>16</sub>	13.067 <sub>149</sub>	21.92 <sub>37</sub>	59.335 <sub>138</sub>	34.35 <sub>6</sub>
März 1.3	25.477 <sub>269</sub>	66.23 <sub>114</sub>	45.354 <sub>166</sub>	51.60 <sub>7</sub>	12.918 <sub>177</sub>	22.29 <sub>32</sub>	59.197 <sub>166</sub>	34.29 <sub>7</sub>
11.3	25.208 <sub>287</sub>	67.37 <sub>64</sub>	45.188 <sub>182</sub>	51.53 <sub>10</sub>	12.741 <sub>196</sub>	22.61 <sub>25</sub>	59.031 <sub>182</sub>	34.30 <sub>1</sub>
21.3	24.921 <sub>291</sub>	68.01 <sub>15</sub>	45.006 <sub>185</sub>	51.56 <sub>3</sub>	12.545 <sub>200</sub>	22.86 <sub>18</sub>	58.849 <sub>187</sub>	34.37 <sub>12</sub>
31.2	24.630 <sub>287</sub>	68.16 <sub>34</sub>	44.821 <sub>181</sub>	51.66 <sub>18</sub>	12.345 <sub>195</sub>	23.04 <sub>9</sub>	58.662 <sub>182</sub>	34.49 <sub>16</sub>
Apr. 10.2	24.343 <sub>269</sub>	67.82 <sub>81</sub>	44.640 <sub>165</sub>	51.84 <sub>24</sub>	12.150 <sub>179</sub>	23.13 <sub>0</sub>	58.480 <sub>167</sub>	34.65 <sub>20</sub>
20.2	24.074 <sub>243</sub>	67.01 <sub>126</sub>	44.475 <sub>141</sub>	52.08 <sub>32</sub>	11.971 <sub>154</sub>	23.13 <sub>6</sub>	58.313 <sub>145</sub>	34.85 <sub>25</sub>
30.2	23.831 <sub>209</sub>	65.75 <sub>169</sub>	44.334 <sub>111</sub>	52.40 <sub>39</sub>	11.817 <sub>120</sub>	23.07 <sub>13</sub>	58.168 <sub>114</sub>	35.10 <sub>29</sub>
Mai 10.1	23.622 <sub>169</sub>	64.06 <sub>207</sub>	44.223 <sub>76</sub>	52.79 <sub>48</sub>	11.697 <sub>83</sub>	22.94 <sub>16</sub>	58.054 <sub>79</sub>	35.39 <sub>34</sub>
20.1	23.453 <sub>124</sub>	61.99 <sub>241</sub>	44.147 <sub>38</sub>	53.27 <sub>54</sub>	11.614 <sub>41</sub>	22.78 <sub>19</sub>	57.975 <sub>40</sub>	35.73 <sub>40</sub>
30.1	23.329 <sub>75</sub>	59.58 <sub>268</sub>	44.109 <sub>2</sub>	53.81 <sub>62</sub>	11.573 <sub>3</sub>	22.59 <sub>19</sub>	57.935 <sub>1</sub>	36.13 <sub>45</sub>
Juni 9.1	23.254 <sub>25</sub>	56.90 <sub>290</sub>	44.111 <sub>41</sub>	54.43 <sub>68</sub>	11.576 <sub>46</sub>	22.40 <sub>18</sub>	57.934 <sub>39</sub>	36.58 <sub>50</sub>
19.0	23.229 <sub>25</sub>	54.00 <sub>303</sub>	44.152 <sub>80</sub>	55.11 <sub>72</sub>	11.622 <sub>87</sub>	22.22 <sub>17</sub>	57.973 <sub>78</sub>	37.08 <sub>53</sub>
29.0	23.254 <sub>74</sub>	50.97 <sub>310</sub>	44.232 <sub>116</sub>	55.83 <sub>76</sub>	11.709 <sub>127</sub>	22.05 <sub>15</sub>	58.051 <sub>114</sub>	37.61 <sub>56</sub>
Juli 9.0	23.328 <sub>123</sub>	47.87 <sub>306</sub>	44.348 <sub>149</sub>	56.59 <sub>76</sub>	11.836 <sub>163</sub>	21.90 <sub>13</sub>	58.165 <sub>148</sub>	38.17 <sub>57</sub>
18.9	23.451 <sub>167</sub>	44.81 <sub>294</sub>	44.497 <sub>178</sub>	57.35 <sub>73</sub>	11.999 <sub>195</sub>	21.77 <sub>11</sub>	58.313 <sub>177</sub>	38.74 <sub>55</sub>
28.9	23.618 <sub>209</sub>	41.87 <sub>272</sub>	44.675 <sub>205</sub>	58.08 <sub>67</sub>	12.194 <sub>224</sub>	21.66 <sub>11</sub>	58.490 <sub>204</sub>	39.29 <sub>50</sub>
Aug. 7.9	23.827 <sub>245</sub>	39.15 <sub>242</sub>	44.880 <sub>227</sub>	58.75 <sub>58</sub>	12.418 <sub>248</sub>	21.55 <sub>12</sub>	58.694 <sub>227</sub>	39.79 <sub>42</sub>
17.9	24.072 <sub>279</sub>	36.73 <sub>202</sub>	45.107 <sub>246</sub>	59.33 <sub>45</sub>	12.666 <sub>268</sub>	21.43 <sub>15</sub>	58.921 <sub>247</sub>	40.21 <sub>31</sub>
27.8	24.351 <sub>305</sub>	34.71 <sub>158</sub>	45.353 <sub>261</sub>	59.78 <sub>29</sub>	12.934 <sub>286</sub>	21.28 <sub>17</sub>	59.168 <sub>263</sub>	40.52 <sub>19</sub>
Sept. 6.8	24.656 <sub>326</sub>	33.13 <sub>103</sub>	45.614 <sub>274</sub>	60.07 <sub>12</sub>	13.220 <sub>299</sub>	21.11 <sub>22</sub>	59.431 <sub>276</sub>	40.71 <sub>2</sub>
16.8	24.982 <sub>341</sub>	32.10 <sub>45</sub>	45.888 <sub>284</sub>	60.19 <sub>8</sub>	13.519 <sub>310</sub>	20.89 <sub>27</sub>	59.707 <sub>285</sub>	40.73 <sub>14</sub>
26.8	25.323 <sub>349</sub>	31.65 <sub>14</sub>	46.172 <sub>289</sub>	60.11 <sub>28</sub>	13.829 <sub>316</sub>	20.62 <sub>32</sub>	59.992 <sub>293</sub>	40.59 <sub>31</sub>
Okt. 6.7	25.672 <sub>349</sub>	31.79 <sub>77</sub>	46.461 <sub>292</sub>	59.83 <sub>48</sub>	14.145 <sub>319</sub>	20.30 <sub>35</sub>	60.285 <sub>296</sub>	40.28 <sub>48</sub>
16.7	26.021 <sub>341</sub>	32.56 <sub>135</sub>	46.753 <sub>290</sub>	59.35 <sub>66</sub>	14.464 <sub>318</sub>	19.95 <sub>38</sub>	60.581 <sub>294</sub>	39.80 <sub>63</sub>
26.7	26.362 <sub>325</sub>	33.91 <sub>191</sub>	47.043 <sub>283</sub>	58.69 <sub>82</sub>	14.782 <sub>311</sub>	19.57 <sub>37</sub>	60.875 <sub>289</sub>	39.17 <sub>75</sub>
Nov. 5.6	26.687 <sub>300</sub>	35.82 <sub>240</sub>	47.326 <sub>271</sub>	57.87 <sub>93</sub>	15.093 <sub>299</sub>	19.20 <sub>36</sub>	61.164 <sub>277</sub>	38.42 <sub>84</sub>
15.6	26.987 <sub>265</sub>	38.22 <sub>279</sub>	47.597 <sub>252</sub>	56.94 <sub>100</sub>	15.392 <sub>278</sub>	18.84 <sub>30</sub>	61.441 <sub>258</sub>	37.58 <sub>89</sub>
25.6	27.252 <sub>224</sub>	41.01 <sub>309</sub>	47.849 <sub>227</sub>	55.94 <sub>102</sub>	15.670 <sub>252</sub>	18.54 <sub>22</sub>	61.699 <sub>234</sub>	36.69 <sub>88</sub>
Dez. 5.6	27.476 <sub>175</sub>	44.10 <sub>329</sub>	48.076 <sub>194</sub>	54.92 <sub>100</sub>	15.922 <sub>217</sub>	18.32 <sub>12</sub>	61.933 <sub>201</sub>	35.81 <sub>85</sub>
15.5	27.651 <sub>119</sub>	47.39 <sub>337</sub>	48.270 <sub>156</sub>	53.92 <sub>94</sub>	16.139 <sub>175</sub>	18.20 <sub>1</sub>	62.134 <sub>163</sub>	34.96 <sub>78</sub>
25.5	27.770 <sub>60</sub>	50.76 <sub>333</sub>	48.426 <sub>111</sub>	52.98 <sub>85</sub>	16.314 <sub>128</sub>	18.19 <sub>10</sub>	62.297 <sub>118</sub>	34.18 <sub>68</sub>
35.5	27.830	54.09	48.537	52.13	16.442	18.29	62.415	33.50
Mittl. Ort sec $\delta$ , 1g $\delta$	24.286 1.370	40.38 -0.937	44.295 1.015	65.38 +0.176	11.770 1.105	31.37 +0.471	58.110 1.026	47.23 +0.231



Mittlere Zeit Greenw.	257) $\alpha$ Canis maj.*)		258) 18 Monocerotis		262) $\alpha$ Pictoris		261) $\theta$ Geminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	6 <sup>h</sup> 41 <sup>m</sup>	-16° 36'	6 <sup>h</sup> 43 <sup>m</sup>	+2° 29'	6 <sup>h</sup> 47 <sup>m</sup>	-61° 51'	6 <sup>h</sup> 47 <sup>m</sup>	+34° 3'
Jan. 0.5	46.560 <sup>59</sup>	47.03 <sup>234</sup>	52.079 <sup>83</sup>	40.03 <sup>127</sup>	27.26 <sup>1</sup>	39.50 <sup>363</sup>	44.408 <sup>111</sup>	8.44 <sup>68</sup>
10.5	46.619 <sup>10</sup>	49.37 <sup>215</sup>	52.162 <sup>33</sup>	38.76 <sup>113</sup>	27.25 <sup>11</sup>	43.13 <sup>345</sup>	44.519 <sup>52</sup>	9.12 <sup>78</sup>
20.4	46.629 <sup>39</sup>	51.52 <sup>192</sup>	52.195 <sup>14</sup>	37.63 <sup>96</sup>	27.14 <sup>20</sup>	46.58 <sup>320</sup>	44.571 <sup>7</sup>	9.90 <sup>83</sup>
30.4	46.590 <sup>85</sup>	53.44 <sup>166</sup>	52.181 <sup>61</sup>	36.67 <sup>78</sup>	26.94 <sup>28</sup>	49.78 <sup>284</sup>	44.564 <sup>64</sup>	10.73 <sup>83</sup>
Feb. 9.4	46.505 <sup>126</sup>	55.10 <sup>135</sup>	52.120 <sup>103</sup>	35.89 <sup>60</sup>	26.66 <sup>34</sup>	52.62 <sup>244</sup>	44.500 <sup>114</sup>	11.56 <sup>80</sup>
19.4	46.379 <sup>159</sup>	56.45 <sup>104</sup>	52.017 <sup>137</sup>	35.29 <sup>42</sup>	26.32 <sup>40</sup>	55.06 <sup>197</sup>	44.386 <sup>158</sup>	12.36 <sup>72</sup>
März 1.3	46.220 <sup>184</sup>	57.49 <sup>71</sup>	51.880 <sup>163</sup>	34.87 <sup>25</sup>	25.92 <sup>45</sup>	57.03 <sup>147</sup>	44.228 <sup>191</sup>	13.08 <sup>59</sup>
11.3	46.036 <sup>198</sup>	58.20 <sup>38</sup>	51.717 <sup>179</sup>	34.62 <sup>9</sup>	25.47 <sup>47</sup>	58.50 <sup>94</sup>	44.037 <sup>211</sup>	13.67 <sup>44</sup>
21.3	45.838 <sup>203</sup>	58.58 <sup>5</sup>	51.538 <sup>185</sup>	34.53 <sup>6</sup>	25.00 <sup>48</sup>	59.44 <sup>40</sup>	43.826 <sup>219</sup>	14.11 <sup>27</sup>
31.2	45.635 <sup>198</sup>	58.63 <sup>27</sup>	51.353 <sup>180</sup>	34.59 <sup>21</sup>	24.52 <sup>48</sup>	59.84 <sup>13</sup>	43.607 <sup>215</sup>	14.38 <sup>9</sup>
Apr. 10.2	45.437 <sup>183</sup>	58.36 <sup>58</sup>	51.173 <sup>166</sup>	34.80 <sup>35</sup>	24.04 <sup>47</sup>	59.71 <sup>66</sup>	43.392 <sup>200</sup>	14.47 <sup>9</sup>
20.2	45.254 <sup>160</sup>	57.78 <sup>88</sup>	51.007 <sup>145</sup>	35.15 <sup>49</sup>	23.57 <sup>43</sup>	59.05 <sup>118</sup>	43.192 <sup>173</sup>	14.38 <sup>25</sup>
30.2	45.094 <sup>132</sup>	56.90 <sup>116</sup>	50.862 <sup>116</sup>	35.64 <sup>63</sup>	23.14 <sup>38</sup>	57.87 <sup>164</sup>	43.019 <sup>139</sup>	14.13 <sup>39</sup>
Mai 10.1	44.962 <sup>97</sup>	55.74 <sup>140</sup>	50.746 <sup>82</sup>	36.27 <sup>76</sup>	22.76 <sup>34</sup>	56.23 <sup>209</sup>	42.880 <sup>99</sup>	13.74 <sup>50</sup>
20.1	44.865 <sup>60</sup>	54.34 <sup>163</sup>	50.664 <sup>46</sup>	37.03 <sup>87</sup>	22.42 <sup>27</sup>	54.14 <sup>248</sup>	42.781 <sup>54</sup>	13.24 <sup>60</sup>
30.1	44.805 <sup>21</sup>	52.71 <sup>182</sup>	50.618 <sup>8</sup>	37.90 <sup>98</sup>	22.15 <sup>20</sup>	51.66 <sup>281</sup>	42.727 <sup>8</sup>	12.64 <sup>65</sup>
Juni 9.1	44.784 <sup>19</sup>	50.89 <sup>197</sup>	50.610 <sup>31</sup>	38.88 <sup>107</sup>	21.95 <sup>13</sup>	48.85 <sup>308</sup>	42.719 <sup>38</sup>	11.99 <sup>69</sup>
19.0	44.803 <sup>58</sup>	48.92 <sup>206</sup>	50.641 <sup>68</sup>	39.95 <sup>112</sup>	21.82 <sup>6</sup>	45.77 <sup>325</sup>	42.757 <sup>85</sup>	11.30 <sup>70</sup>
29.0	44.861 <sup>95</sup>	46.86 <sup>210</sup>	50.709 <sup>104</sup>	41.07 <sup>116</sup>	21.76 <sup>2</sup>	42.52 <sup>335</sup>	42.842 <sup>127</sup>	10.60 <sup>69</sup>
Juli 9.0	44.956 <sup>129</sup>	44.76 <sup>207</sup>	50.813 <sup>136</sup>	42.23 <sup>115</sup>	21.78 <sup>10</sup>	39.17 <sup>335</sup>	42.969 <sup>167</sup>	9.91 <sup>67</sup>
18.9	45.085 <sup>162</sup>	42.69 <sup>199</sup>	50.949 <sup>166</sup>	43.38 <sup>111</sup>	21.88 <sup>17</sup>	35.82 <sup>325</sup>	43.136 <sup>203</sup>	9.24 <sup>65</sup>
28.9	45.247 <sup>190</sup>	40.70 <sup>183</sup>	51.115 <sup>192</sup>	44.49 <sup>102</sup>	22.05 <sup>25</sup>	32.57 <sup>305</sup>	43.339 <sup>234</sup>	8.59 <sup>61</sup>
Aug. 7.9	45.437 <sup>214</sup>	38.87 <sup>160</sup>	51.307 <sup>216</sup>	45.51 <sup>88</sup>	22.30 <sup>31</sup>	29.52 <sup>276</sup>	43.573 <sup>263</sup>	7.98 <sup>58</sup>
17.9	45.651 <sup>236</sup>	37.27 <sup>132</sup>	51.523 <sup>235</sup>	46.39 <sup>72</sup>	22.61 <sup>37</sup>	26.76 <sup>236</sup>	43.836 <sup>286</sup>	7.40 <sup>55</sup>
27.8	45.887 <sup>254</sup>	35.95 <sup>97</sup>	51.758 <sup>252</sup>	47.11 <sup>50</sup>	22.98 <sup>41</sup>	24.40 <sup>188</sup>	44.122 <sup>306</sup>	6.85 <sup>51</sup>
Sept. 6.8	46.141 <sup>269</sup>	34.98 <sup>58</sup>	52.010 <sup>266</sup>	47.61 <sup>25</sup>	23.39 <sup>46</sup>	22.52 <sup>133</sup>	44.428 <sup>322</sup>	6.34 <sup>48</sup>
16.8	46.410 <sup>278</sup>	34.40 <sup>16</sup>	52.276 <sup>275</sup>	47.86 <sup>1</sup>	23.85 <sup>49</sup>	21.19 <sup>71</sup>	44.750 <sup>334</sup>	5.86 <sup>45</sup>
26.8	46.688 <sup>285</sup>	34.24 <sup>29</sup>	52.551 <sup>283</sup>	47.85 <sup>29</sup>	24.34 <sup>50</sup>	20.48 <sup>2</sup>	45.084 <sup>344</sup>	5.41 <sup>41</sup>
Okt. 6.7	46.973 <sup>287</sup>	34.53 <sup>74</sup>	52.834 <sup>286</sup>	47.56 <sup>55</sup>	24.84 <sup>51</sup>	20.41 <sup>59</sup>	45.428 <sup>348</sup>	5.00 <sup>35</sup>
16.7	47.260 <sup>284</sup>	35.27 <sup>116</sup>	53.120 <sup>285</sup>	47.01 <sup>82</sup>	25.35 <sup>49</sup>	21.00 <sup>124</sup>	45.776 <sup>348</sup>	4.65 <sup>28</sup>
26.7	47.544 <sup>275</sup>	36.43 <sup>155</sup>	53.405 <sup>280</sup>	46.19 <sup>104</sup>	25.84 <sup>47</sup>	22.24 <sup>186</sup>	46.124 <sup>342</sup>	4.37 <sup>19</sup>
Nov. 5.6	47.819 <sup>260</sup>	37.98 <sup>188</sup>	53.685 <sup>268</sup>	45.15 <sup>122</sup>	26.31 <sup>42</sup>	24.10 <sup>241</sup>	46.466 <sup>329</sup>	4.18 <sup>9</sup>
15.6	48.079 <sup>239</sup>	39.86 <sup>215</sup>	53.953 <sup>251</sup>	43.93 <sup>136</sup>	26.73 <sup>37</sup>	26.51 <sup>289</sup>	46.795 <sup>309</sup>	4.09 <sup>5</sup>
25.6	48.318 <sup>211</sup>	42.01 <sup>234</sup>	54.204 <sup>225</sup>	42.57 <sup>143</sup>	27.10 <sup>30</sup>	29.40 <sup>324</sup>	47.104 <sup>280</sup>	4.14 <sup>18</sup>
Dec. 5.6	48.529 <sup>176</sup>	44.35 <sup>243</sup>	54.429 <sup>194</sup>	41.14 <sup>144</sup>	27.40 <sup>22</sup>	32.64 <sup>350</sup>	47.384 <sup>243</sup>	4.32 <sup>35</sup>
15.5	48.705 <sup>135</sup>	46.78 <sup>245</sup>	54.623 <sup>155</sup>	39.70 <sup>140</sup>	27.62 <sup>13</sup>	36.14 <sup>364</sup>	47.627 <sup>199</sup>	4.67 <sup>49</sup>
25.5	48.840 <sup>90</sup>	49.23 <sup>238</sup>	54.778 <sup>112</sup>	38.30 <sup>132</sup>	27.75 <sup>4</sup>	39.78 <sup>365</sup>	47.826 <sup>147</sup>	5.16 <sup>64</sup>
35.5	48.930	51.61	54.890	36.98	27.79	43.43	47.973	5.80
Mittl. Ort sec $\delta$ , tg $\delta$	45.178 1.044	36.15 -0.298	50.808 1.001	50.92 +0.044	24.15 2.120	30.36 -1.870	42.966 1.207	19.65 +0.676

\*) Ort des Hauptsterns; die jährliche Parallaxe (0.38) ist bereits berücksichtigt

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	266) ♀ Canis maj.		265) ♀ Lynceis		268) ♂ Canis maj.		269) ♂ Gemminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	6 <sup>h</sup> 50 <sup>m</sup>	-11° 56'	6 <sup>h</sup> 50 <sup>m</sup>	+58° 31'	6 <sup>h</sup> 55 <sup>m</sup>	-28° 51'	6 <sup>h</sup> 59 <sup>m</sup>	+20° 40'
1923								
Jan. 0.5	38.093 <sup>77</sup>	38.71 <sup>209</sup>	39.094 <sup>147</sup>	20.73 <sup>207</sup>	37.507 <sup>66</sup>	68.83 <sup>289</sup>	33.899 <sup>112</sup>	53.01 <sup>19</sup>
10.5	38.170 <sup>28</sup>	40.80 <sup>194</sup>	39.241 <sup>57</sup>	22.80 <sup>214</sup>	37.573 <sup>14</sup>	71.72 <sup>273</sup>	34.011 <sup>59</sup>	52.82 <sup>6</sup>
20.4	38.198 <sup>21</sup>	42.74 <sup>173</sup>	39.298 <sup>34</sup>	24.94 <sup>210</sup>	37.587 <sup>41</sup>	74.45 <sup>249</sup>	34.070 <sup>7</sup>	52.76 <sup>6</sup>
30.4	38.177 <sup>67</sup>	44.47 <sup>148</sup>	39.264 <sup>121</sup>	27.04 <sup>198</sup>	37.546 <sup>90</sup>	76.94 <sup>220</sup>	34.077 <sup>45</sup>	52.82 <sup>16</sup>
Feb. 9.4	38.110 <sup>109</sup>	45.95 <sup>122</sup>	39.143 <sup>199</sup>	29.02 <sup>179</sup>	37.456 <sup>135</sup>	79.14 <sup>185</sup>	34.032 <sup>91</sup>	52.98 <sup>23</sup>
19.4	38.001 <sup>144</sup>	47.17 <sup>93</sup>	38.944 <sup>266</sup>	30.81 <sup>151</sup>	37.321 <sup>172</sup>	80.99 <sup>147</sup>	33.941 <sup>132</sup>	53.21 <sup>26</sup>
März 1.3	37.857 <sup>171</sup>	48.10 <sup>64</sup>	38.678 <sup>316</sup>	32.32 <sup>118</sup>	37.149 <sup>201</sup>	82.46 <sup>108</sup>	33.809 <sup>162</sup>	53.47 <sup>28</sup>
11.3	37.686 <sup>187</sup>	48.74 <sup>36</sup>	38.362 <sup>350</sup>	33.50 <sup>80</sup>	36.948 <sup>220</sup>	83.54 <sup>68</sup>	33.647 <sup>182</sup>	53.75 <sup>27</sup>
21.3	37.499 <sup>194</sup>	49.10 <sup>7</sup>	38.012 <sup>364</sup>	34.30 <sup>39</sup>	36.728 <sup>228</sup>	84.22 <sup>25</sup>	33.465 <sup>191</sup>	54.02 <sup>24</sup>
31.2	37.305 <sup>191</sup>	49.17 <sup>22</sup>	37.648 <sup>361</sup>	34.69 <sup>2</sup>	36.500 <sup>225</sup>	84.47 <sup>15</sup>	33.274 <sup>190</sup>	54.26 <sup>20</sup>
Apr. 10.2	37.114 <sup>178</sup>	48.95 <sup>49</sup>	37.287 <sup>337</sup>	34.67 <sup>43</sup>	36.275 <sup>213</sup>	84.32 <sup>56</sup>	33.084 <sup>177</sup>	54.46 <sup>15</sup>
20.2	36.936 <sup>158</sup>	48.46 <sup>75</sup>	36.950 <sup>302</sup>	34.24 <sup>80</sup>	36.062 <sup>194</sup>	83.76 <sup>94</sup>	32.907 <sup>156</sup>	54.61 <sup>12</sup>
30.2	36.778 <sup>131</sup>	47.71 <sup>100</sup>	36.648 <sup>250</sup>	33.44 <sup>114</sup>	35.868 <sup>165</sup>	82.82 <sup>131</sup>	32.751 <sup>127</sup>	54.73 <sup>9</sup>
Mai 10.1	36.647 <sup>98</sup>	46.71 <sup>124</sup>	36.398 <sup>190</sup>	32.30 <sup>143</sup>	35.703 <sup>133</sup>	81.51 <sup>164</sup>	32.624 <sup>94</sup>	54.82 <sup>6</sup>
20.1	36.549 <sup>63</sup>	45.47 <sup>143</sup>	36.208 <sup>122</sup>	30.87 <sup>166</sup>	35.570 <sup>96</sup>	79.87 <sup>194</sup>	32.530 <sup>55</sup>	54.88 <sup>5</sup>
30.1	36.486 <sup>26</sup>	44.04 <sup>162</sup>	36.086 <sup>51</sup>	29.21 <sup>184</sup>	35.474 <sup>55</sup>	77.93 <sup>220</sup>	32.475 <sup>15</sup>	54.93 <sup>5</sup>
Juni 9.1	36.460 <sup>13</sup>	42.42 <sup>175</sup>	36.035 <sup>23</sup>	27.37 <sup>195</sup>	35.419 <sup>15</sup>	75.73 <sup>239</sup>	32.460 <sup>26</sup>	54.98 <sup>5</sup>
19.0	36.473 <sup>50</sup>	40.67 <sup>184</sup>	36.058 <sup>94</sup>	25.42 <sup>202</sup>	35.404 <sup>27</sup>	73.34 <sup>254</sup>	32.486 <sup>65</sup>	55.03 <sup>6</sup>
29.0	36.523 <sup>87</sup>	38.83 <sup>190</sup>	36.152 <sup>164</sup>	23.40 <sup>203</sup>	35.431 <sup>67</sup>	70.80 <sup>260</sup>	32.551 <sup>103</sup>	55.09 <sup>6</sup>
Juli 9.0	36.610 <sup>120</sup>	36.93 <sup>189</sup>	36.316 <sup>229</sup>	21.37 <sup>198</sup>	35.498 <sup>106</sup>	68.20 <sup>260</sup>	32.654 <sup>137</sup>	55.15 <sup>6</sup>
18.9	36.730 <sup>152</sup>	35.04 <sup>181</sup>	36.545 <sup>289</sup>	19.39 <sup>189</sup>	35.604 <sup>143</sup>	65.60 <sup>253</sup>	32.791 <sup>170</sup>	55.21 <sup>6</sup>
28.9	36.882 <sup>179</sup>	33.23 <sup>169</sup>	36.834 <sup>343</sup>	17.50 <sup>178</sup>	35.747 <sup>176</sup>	63.07 <sup>236</sup>	32.961 <sup>199</sup>	55.27 <sup>2</sup>
Aug. 7.9	37.061 <sup>205</sup>	31.54 <sup>149</sup>	37.177 <sup>390</sup>	15.72 <sup>162</sup>	35.923 <sup>206</sup>	60.71 <sup>211</sup>	33.160 <sup>223</sup>	55.29 <sup>3</sup>
17.9	37.266 <sup>227</sup>	30.05 <sup>123</sup>	37.567 <sup>430</sup>	14.10 <sup>144</sup>	36.129 <sup>234</sup>	58.60 <sup>180</sup>	33.383 <sup>246</sup>	55.26 <sup>8</sup>
27.8	37.493 <sup>246</sup>	28.82 <sup>93</sup>	37.997 <sup>465</sup>	12.66 <sup>122</sup>	36.363 <sup>257</sup>	56.80 <sup>140</sup>	33.629 <sup>265</sup>	55.18 <sup>17</sup>
Sept. 6.8	37.739 <sup>261</sup>	27.89 <sup>58</sup>	38.462 <sup>492</sup>	11.44 <sup>100</sup>	36.620 <sup>277</sup>	55.40 <sup>95</sup>	33.894 <sup>281</sup>	55.01 <sup>25</sup>
16.8	38.000 <sup>273</sup>	27.31 <sup>19</sup>	38.954 <sup>513</sup>	10.44 <sup>74</sup>	36.897 <sup>292</sup>	54.45 <sup>45</sup>	34.175 <sup>294</sup>	54.76 <sup>35</sup>
26.8	38.273 <sup>282</sup>	27.12 <sup>22</sup>	39.467 <sup>527</sup>	9.70 <sup>47</sup>	37.189 <sup>302</sup>	54.00 <sup>8</sup>	34.469 <sup>304</sup>	54.41 <sup>45</sup>
Okt. 6.7	38.555 <sup>286</sup>	27.34 <sup>62</sup>	39.994 <sup>534</sup>	9.23 <sup>18</sup>	37.491 <sup>307</sup>	54.08 <sup>61</sup>	34.773 <sup>310</sup>	53.96 <sup>53</sup>
16.7	38.841 <sup>285</sup>	27.96 <sup>102</sup>	40.528 <sup>531</sup>	9.05 <sup>12</sup>	37.798 <sup>306</sup>	54.69 <sup>114</sup>	35.083 <sup>312</sup>	53.43 <sup>61</sup>
26.7	39.126 <sup>280</sup>	28.98 <sup>137</sup>	41.059 <sup>519</sup>	9.17 <sup>43</sup>	38.104 <sup>299</sup>	55.83 <sup>163</sup>	35.395 <sup>309</sup>	52.82 <sup>64</sup>
Nov. 5.6	39.406 <sup>267</sup>	30.35 <sup>168</sup>	41.578 <sup>496</sup>	9.60 <sup>75</sup>	38.403 <sup>284</sup>	57.46 <sup>206</sup>	35.704 <sup>300</sup>	52.18 <sup>67</sup>
15.6	39.673 <sup>249</sup>	32.03 <sup>192</sup>	42.074 <sup>462</sup>	10.35 <sup>107</sup>	38.687 <sup>261</sup>	59.52 <sup>242</sup>	36.004 <sup>283</sup>	51.51 <sup>64</sup>
25.6	39.922 <sup>224</sup>	33.95 <sup>209</sup>	42.536 <sup>415</sup>	11.42 <sup>136</sup>	38.948 <sup>231</sup>	61.94 <sup>269</sup>	36.287 <sup>260</sup>	50.87 <sup>57</sup>
Dez. 5.6	40.146 <sup>190</sup>	36.04 <sup>219</sup>	42.951 <sup>355</sup>	12.78 <sup>163</sup>	39.179 <sup>193</sup>	64.63 <sup>287</sup>	36.547 <sup>229</sup>	50.30 <sup>49</sup>
15.5	40.336 <sup>152</sup>	38.23 <sup>221</sup>	43.306 <sup>284</sup>	14.41 <sup>187</sup>	39.372 <sup>149</sup>	67.50 <sup>294</sup>	36.776 <sup>189</sup>	49.81 <sup>38</sup>
25.5	40.488 <sup>107</sup>	40.44 <sup>214</sup>	43.590 <sup>203</sup>	16.28 <sup>203</sup>	39.521 <sup>99</sup>	70.44 <sup>293</sup>	36.965 <sup>144</sup>	49.43 <sup>24</sup>
35.5	40.595	42.58	43.793	18.31	39.620	73.37	37.109	49.19
Mittl. Ort sec δ, tg δ	36.751 1.022	28.24 -0.212	36.867 1.915	32.03 +1.634	35.936 1.142	59.15 -0.551	32.612 1.069	64.36 +0.378

Mittlere Zeit Greenw.	271) $\gamma$ Canis maj.		273) $\delta$ Canis maj.		274) $\beta_3$ Aurigae		277) $\lambda$ (Gemini)orum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	$7^h 0^m$	$-15^\circ 31'$	$7^h 5^m$	$-26^\circ 16'$	$7^h 6^m$	$+39^\circ 26'$	$7^h 13^m$	$+16^\circ 40'$
1923								
Jan. 0.5	17.898 <sup>84</sup>	16.88 <sup>230</sup>	17.119 <sup>80</sup>	21.57 <sup>281</sup>	23.220 <sup>139</sup>	39.42 <sup>97</sup>	41.400 <sup>123</sup>	38.22 <sup>48</sup>
10.5	17.982 <sup>34</sup>	19.18 <sup>215</sup>	17.199 <sup>26</sup>	24.38 <sup>267</sup>	23.359 <sup>77</sup>	40.39 <sup>108</sup>	41.523 <sup>71</sup>	37.74 <sup>33</sup>
20.5	18.016 <sup>15</sup>	21.33 <sup>194</sup>	17.225 <sup>25</sup>	27.05 <sup>243</sup>	23.436 <sup>12</sup>	41.47 <sup>115</sup>	41.594 <sup>20</sup>	37.41 <sup>20</sup>
30.4	18.001 <sup>63</sup>	23.27 <sup>169</sup>	17.200 <sup>76</sup>	29.48 <sup>216</sup>	23.448 <sup>49</sup>	42.52 <sup>117</sup>	41.614 <sup>32</sup>	37.21 <sup>6</sup>
Feb. 9.4	17.938 <sup>107</sup>	24.96 <sup>140</sup>	17.124 <sup>121</sup>	31.64 <sup>183</sup>	23.399 <sup>107</sup>	43.79 <sup>111</sup>	41.582 <sup>79</sup>	37.15 <sup>5</sup>
19.4	17.831 <sup>142</sup>	26.36 <sup>110</sup>	17.003 <sup>159</sup>	33.47 <sup>147</sup>	23.292 <sup>155</sup>	44.90 <sup>101</sup>	41.503 <sup>119</sup>	37.20 <sup>13</sup>
März 1.4	17.689 <sup>171</sup>	27.46 <sup>78</sup>	16.844 <sup>189</sup>	34.94 <sup>110</sup>	23.137 <sup>194</sup>	45.91 <sup>87</sup>	41.384 <sup>151</sup>	37.33 <sup>19</sup>
11.3	17.518 <sup>188</sup>	28.24 <sup>47</sup>	16.655 <sup>209</sup>	36.04 <sup>70</sup>	22.943 <sup>220</sup>	46.78 <sup>67</sup>	41.233 <sup>173</sup>	37.52 <sup>22</sup>
21.3	17.330 <sup>198</sup>	28.71 <sup>15</sup>	16.446 <sup>218</sup>	36.74 <sup>31</sup>	22.723 <sup>233</sup>	47.45 <sup>45</sup>	41.060 <sup>184</sup>	37.74 <sup>25</sup>
31.3	17.132 <sup>195</sup>	28.86 <sup>17</sup>	16.228 <sup>217</sup>	37.05 <sup>8</sup>	22.490 <sup>233</sup>	47.90 <sup>22</sup>	40.876 <sup>185</sup>	37.99 <sup>24</sup>
Apr. 10.2	16.937 <sup>185</sup>	28.69 <sup>46</sup>	16.011 <sup>208</sup>	36.97 <sup>47</sup>	22.257 <sup>221</sup>	48.12 <sup>2</sup>	40.691 <sup>175</sup>	38.23 <sup>24</sup>
20.2	16.752 <sup>165</sup>	28.23 <sup>76</sup>	15.803 <sup>189</sup>	36.50 <sup>85</sup>	22.036 <sup>196</sup>	48.10 <sup>24</sup>	40.516 <sup>157</sup>	38.47 <sup>24</sup>
30.2	16.587 <sup>140</sup>	27.47 <sup>103</sup>	15.614 <sup>163</sup>	35.65 <sup>119</sup>	21.840 <sup>164</sup>	47.86 <sup>45</sup>	40.359 <sup>131</sup>	38.71 <sup>23</sup>
Mai 10.2	16.447 <sup>109</sup>	26.44 <sup>129</sup>	15.451 <sup>132</sup>	34.46 <sup>152</sup>	21.676 <sup>123</sup>	47.41 <sup>63</sup>	40.228 <sup>100</sup>	38.94 <sup>23</sup>
20.1	16.338 <sup>73</sup>	25.15 <sup>152</sup>	15.319 <sup>96</sup>	32.94 <sup>180</sup>	21.553 <sup>79</sup>	46.78 <sup>77</sup>	40.128 <sup>64</sup>	39.17 <sup>24</sup>
30.1	16.265 <sup>38</sup>	23.63 <sup>172</sup>	15.223 <sup>58</sup>	31.14 <sup>206</sup>	21.474 <sup>31</sup>	46.01 <sup>89</sup>	40.064 <sup>26</sup>	39.41 <sup>25</sup>
Juni 9.1	16.227 <sup>1</sup>	21.91 <sup>187</sup>	15.165 <sup>19</sup>	29.08 <sup>226</sup>	21.443 <sup>18</sup>	45.12 <sup>97</sup>	40.038 <sup>12</sup>	39.66 <sup>26</sup>
19.1	16.228 <sup>39</sup>	20.04 <sup>198</sup>	15.146 <sup>21</sup>	26.82 <sup>240</sup>	21.461 <sup>65</sup>	44.15 <sup>103</sup>	40.050 <sup>49</sup>	39.92 <sup>26</sup>
29.0	16.267 <sup>75</sup>	18.06 <sup>203</sup>	15.167 <sup>60</sup>	24.42 <sup>248</sup>	21.526 <sup>112</sup>	43.12 <sup>104</sup>	40.099 <sup>87</sup>	40.18 <sup>27</sup>
Juli 9.0	16.342 <sup>109</sup>	16.03 <sup>204</sup>	15.227 <sup>98</sup>	21.94 <sup>249</sup>	21.638 <sup>154</sup>	42.08 <sup>105</sup>	40.186 <sup>120</sup>	40.45 <sup>25</sup>
19.0	16.451 <sup>142</sup>	13.99 <sup>197</sup>	15.325 <sup>133</sup>	19.45 <sup>242</sup>	21.792 <sup>194</sup>	41.03 <sup>104</sup>	40.306 <sup>152</sup>	40.70 <sup>22</sup>
28.9	16.593 <sup>171</sup>	12.02 <sup>183</sup>	15.458 <sup>166</sup>	17.03 <sup>227</sup>	21.986 <sup>231</sup>	39.99 <sup>100</sup>	40.458 <sup>181</sup>	40.92 <sup>18</sup>
Aug. 7.9	16.764 <sup>197</sup>	10.19 <sup>164</sup>	15.624 <sup>196</sup>	14.76 <sup>204</sup>	22.217 <sup>261</sup>	38.99 <sup>96</sup>	40.639 <sup>206</sup>	41.10 <sup>10</sup>
17.9	16.961 <sup>222</sup>	8.55 <sup>137</sup>	15.820 <sup>224</sup>	12.72 <sup>175</sup>	22.478 <sup>290</sup>	38.03 <sup>91</sup>	40.845 <sup>229</sup>	41.20 <sup>1</sup>
27.9	17.183 <sup>241</sup>	7.18 <sup>105</sup>	16.044 <sup>248</sup>	10.97 <sup>137</sup>	22.768 <sup>314</sup>	37.12 <sup>86</sup>	41.074 <sup>250</sup>	41.21 <sup>9</sup>
Sept. 6.8	17.424 <sup>259</sup>	6.13 <sup>67</sup>	16.292 <sup>268</sup>	9.60 <sup>94</sup>	23.082 <sup>334</sup>	36.26 <sup>78</sup>	41.324 <sup>267</sup>	41.12 <sup>23</sup>
16.8	17.683 <sup>274</sup>	5.46 <sup>27</sup>	16.560 <sup>284</sup>	8.66 <sup>47</sup>	23.416 <sup>351</sup>	35.48 <sup>70</sup>	41.591 <sup>282</sup>	40.89 <sup>36</sup>
26.8	17.957 <sup>283</sup>	5.19 <sup>17</sup>	16.844 <sup>296</sup>	8.19 <sup>5</sup>	23.767 <sup>363</sup>	34.78 <sup>63</sup>	41.873 <sup>293</sup>	40.53 <sup>50</sup>
Okt. 6.8	18.240 <sup>289</sup>	5.36 <sup>61</sup>	17.140 <sup>302</sup>	8.24 <sup>56</sup>	24.130 <sup>372</sup>	34.15 <sup>51</sup>	42.166 <sup>303</sup>	40.03 <sup>64</sup>
16.7	18.529 <sup>290</sup>	5.97 <sup>103</sup>	17.442 <sup>304</sup>	8.80 <sup>108</sup>	24.502 <sup>376</sup>	33.64 <sup>39</sup>	42.469 <sup>306</sup>	39.39 <sup>74</sup>
26.7	18.819 <sup>286</sup>	7.00 <sup>142</sup>	17.746 <sup>299</sup>	9.88 <sup>155</sup>	24.878 <sup>372</sup>	33.25 <sup>23</sup>	42.775 <sup>306</sup>	38.65 <sup>83</sup>
Nov. 5.7	19.105 <sup>274</sup>	8.42 <sup>176</sup>	18.045 <sup>286</sup>	11.43 <sup>197</sup>	25.250 <sup>362</sup>	33.02 <sup>7</sup>	43.081 <sup>299</sup>	37.82 <sup>88</sup>
15.6	19.379 <sup>256</sup>	10.18 <sup>204</sup>	18.331 <sup>265</sup>	13.40 <sup>233</sup>	25.612 <sup>342</sup>	32.95 <sup>11</sup>	43.380 <sup>285</sup>	36.94 <sup>89</sup>
25.6	19.635 <sup>231</sup>	12.22 <sup>224</sup>	18.596 <sup>238</sup>	15.73 <sup>260</sup>	25.954 <sup>315</sup>	33.06 <sup>32</sup>	43.665 <sup>264</sup>	36.05 <sup>86</sup>
Dez. 5.6	19.866 <sup>199</sup>	14.46 <sup>236</sup>	18.834 <sup>203</sup>	18.33 <sup>278</sup>	26.269 <sup>278</sup>	33.38 <sup>53</sup>	43.929 <sup>235</sup>	35.19 <sup>79</sup>
15.6	20.065 <sup>159</sup>	16.82 <sup>239</sup>	19.037 <sup>160</sup>	21.11 <sup>285</sup>	26.547 <sup>232</sup>	33.91 <sup>71</sup>	44.164 <sup>198</sup>	34.40 <sup>67</sup>
25.5	20.224 <sup>114</sup>	19.21 <sup>236</sup>	19.197 <sup>112</sup>	23.96 <sup>285</sup>	26.779 <sup>178</sup>	34.62 <sup>90</sup>	44.362 <sup>154</sup>	33.73 <sup>55</sup>
35.5	20.338	21.57	19.309	26.81	26.957	35.52	44.516	33.18
Mittl. Ort sec $\delta$ , tg $\delta$	16.520 1.038	6.86 -0.278	15.589 1.115	12.30 -0.494	21.739 1.295	51.45 +0.823	40.154 1.044	49.61 +0.300



# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	278) $\pi$ Argus		279) $\delta$ Geminorum		280) $\gamma$ Lyncis seq.		281) $\delta$ Volantis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	7 <sup>h</sup> 14 <sup>m</sup>	-36° 57'	7 <sup>h</sup> 15 <sup>m</sup>	+22° 7'	7 <sup>h</sup> 16 <sup>m</sup>	+55° 25'	7 <sup>h</sup> 16 <sup>m</sup>	-67° 48'
Jan. 0.5	27.128 <sub>80</sub>	38.62 <sub>323</sub>	32.850 <sub>130</sub>	19.89 <sub>15</sub>	37.397 <sub>185</sub>	28.53 <sub>184</sub>	56.58 <sub>3</sub>	65.12 <sub>373</sub>
10.5	27.208 <sub>22</sub>	41.85 <sub>310</sub>	32.980 <sub>76</sub>	19.74 <sub>1</sub>	37.582 <sub>101</sub>	30.37 <sub>197</sub>	56.61 <sub>9</sub>	68.85 <sub>365</sub>
20.5	27.230 <sub>36</sub>	44.95 <sub>288</sub>	33.056 <sub>24</sub>	19.75 <sub>13</sub>	37.683 <sub>16</sub>	32.34 <sub>201</sub>	56.52 <sub>20</sub>	72.50 <sub>345</sub>
30.4	27.194 <sub>91</sub>	47.83 <sub>259</sub>	33.080 <sub>31</sub>	19.88 <sub>24</sub>	37.699 <sub>67</sub>	34.35 <sub>196</sub>	56.32 <sub>30</sub>	75.95 <sub>317</sub>
Feb. 9.4	27.103 <sub>142</sub>	50.42 <sub>224</sub>	33.049 <sub>78</sub>	20.12 <sub>33</sub>	37.632 <sub>144</sub>	36.31 <sub>184</sub>	56.02 <sub>39</sub>	79.12 <sub>281</sub>
19.4	26.961 <sub>183</sub>	52.66 <sub>185</sub>	32.971 <sub>122</sub>	20.45 <sub>36</sub>	37.488 <sub>211</sub>	38.15 <sub>164</sub>	55.63 <sub>47</sub>	81.93 <sub>239</sub>
März 1.4	26.778 <sub>217</sub>	54.51 <sub>143</sub>	32.849 <sub>154</sub>	20.81 <sub>38</sub>	37.277 <sub>265</sub>	39.79 <sub>137</sub>	55.16 <sub>54</sub>	84.32 <sub>192</sub>
11.3	26.561 <sub>240</sub>	55.94 <sub>98</sub>	32.695 <sub>178</sub>	21.19 <sub>36</sub>	37.012 <sub>304</sub>	41.16 <sub>104</sub>	54.62 <sub>57</sub>	86.24 <sub>142</sub>
21.3	26.321 <sub>251</sub>	56.92 <sub>52</sub>	32.517 <sub>190</sub>	21.55 <sub>32</sub>	36.708 <sub>324</sub>	42.20 <sub>69</sub>	54.05 <sub>60</sub>	87.66 <sub>89</sub>
31.3	26.070 <sub>253</sub>	57.44 <sub>7</sub>	32.327 <sub>191</sub>	21.87 <sub>27</sub>	36.384 <sub>329</sub>	42.87 <sub>27</sub>	53.45 <sub>61</sub>	88.55 <sub>36</sub>
Apr. 10.3	25.817 <sub>245</sub>	57.51 <sub>38</sub>	32.136 <sub>181</sub>	22.14 <sub>21</sub>	36.055 <sub>315</sub>	43.16 <sub>10</sub>	52.84 <sub>60</sub>	88.91 <sub>19</sub>
20.2	25.572 <sub>227</sub>	57.13 <sub>81</sub>	31.955 <sub>162</sub>	22.35 <sub>14</sub>	35.740 <sub>289</sub>	43.06 <sub>47</sub>	52.24 <sub>57</sub>	88.72 <sub>71</sub>
30.2	25.345 <sub>201</sub>	56.32 <sub>124</sub>	31.793 <sub>137</sub>	22.49 <sub>9</sub>	35.451 <sub>248</sub>	42.59 <sub>81</sub>	51.67 <sub>53</sub>	88.01 <sub>122</sub>
Mai 10.2	25.144 <sub>169</sub>	55.08 <sub>162</sub>	31.656 <sub>103</sub>	22.58 <sub>5</sub>	35.203 <sub>198</sub>	41.78 <sub>112</sub>	51.14 <sub>48</sub>	86.79 <sub>170</sub>
20.1	24.975 <sub>133</sub>	53.46 <sub>198</sub>	31.553 <sub>68</sub>	22.63 <sub>1</sub>	35.005 <sub>141</sub>	40.66 <sub>139</sub>	50.66 <sub>42</sub>	85.09 <sub>213</sub>
30.1	24.842 <sub>92</sub>	51.48 <sub>227</sub>	31.485 <sub>28</sub>	22.64 <sub>2</sub>	34.864 <sub>78</sub>	39.27 <sub>159</sub>	50.24 <sub>33</sub>	82.96 <sub>252</sub>
Juni 9.1	24.750 <sub>50</sub>	49.21 <sub>252</sub>	31.457 <sub>11</sub>	22.62 <sub>3</sub>	34.786 <sub>14</sub>	37.68 <sub>176</sub>	49.91 <sub>25</sub>	80.44 <sub>284</sub>
19.1	24.700 <sub>7</sub>	46.69 <sub>271</sub>	31.468 <sub>50</sub>	22.59 <sub>5</sub>	34.772 <sub>51</sub>	35.92 <sub>187</sub>	49.66 <sub>17</sub>	77.60 <sub>309</sub>
29.0	24.693 <sub>37</sub>	43.98 <sub>281</sub>	31.518 <sub>89</sub>	22.54 <sub>6</sub>	34.823 <sub>114</sub>	34.05 <sub>192</sub>	49.49 <sub>7</sub>	74.51 <sub>326</sub>
Juli 9.0	24.730 <sub>80</sub>	41.17 <sub>284</sub>	31.607 <sub>123</sub>	22.48 <sub>7</sub>	34.937 <sub>174</sub>	32.13 <sub>194</sub>	49.42 <sub>3</sub>	71.25 <sub>332</sub>
19.0	24.810 <sub>121</sub>	38.33 <sub>279</sub>	31.730 <sub>157</sub>	22.41 <sub>10</sub>	35.111 <sub>231</sub>	30.19 <sub>190</sub>	49.45 <sub>12</sub>	67.93 <sub>331</sub>
29.0	24.931 <sub>160</sub>	35.54 <sub>264</sub>	31.887 <sub>185</sub>	22.31 <sub>13</sub>	35.342 <sub>281</sub>	28.29 <sub>184</sub>	49.57 <sub>21</sub>	64.62 <sub>317</sub>
Aug. 7.9	25.091 <sub>196</sub>	32.90 <sub>241</sub>	32.072 <sub>213</sub>	22.18 <sub>18</sub>	35.623 <sub>328</sub>	26.45 <sub>174</sub>	49.78 <sub>31</sub>	61.45 <sub>295</sub>
17.9	25.287 <sub>230</sub>	30.49 <sub>210</sub>	32.285 <sub>237</sub>	22.00 <sub>24</sub>	35.951 <sub>369</sub>	24.71 <sub>161</sub>	50.09 <sub>39</sub>	58.50 <sub>262</sub>
27.9	25.517 <sub>259</sub>	28.39 <sub>169</sub>	32.522 <sub>257</sub>	21.76 <sub>31</sub>	36.320 <sub>405</sub>	23.10 <sub>145</sub>	50.48 <sub>46</sub>	55.88 <sub>218</sub>
Sept. 6.8	25.776 <sub>284</sub>	26.70 <sub>122</sub>	32.779 <sub>276</sub>	21.45 <sub>39</sub>	36.725 <sub>436</sub>	21.65 <sub>126</sub>	50.94 <sub>52</sub>	53.70 <sub>168</sub>
16.8	26.060 <sub>305</sub>	25.48 <sub>69</sub>	33.055 <sub>291</sub>	21.06 <sub>49</sub>	37.161 <sub>462</sub>	20.39 <sub>106</sub>	51.46 <sub>57</sub>	52.02 <sub>109</sub>
26.8	26.365 <sub>321</sub>	24.79 <sub>13</sub>	33.346 <sub>304</sub>	20.57 <sub>56</sub>	37.623 <sub>478</sub>	19.33 <sub>83</sub>	52.03 <sub>61</sub>	50.93 <sub>47</sub>
Okt. 6.8	26.686 <sub>329</sub>	24.66 <sub>45</sub>	33.650 <sub>312</sub>	20.01 <sub>64</sub>	38.101 <sub>492</sub>	18.50 <sub>56</sub>	52.64 <sub>62</sub>	50.46 <sub>20</sub>
16.7	27.015 <sub>331</sub>	25.11 <sub>103</sub>	33.962 <sub>317</sub>	19.37 <sub>70</sub>	38.593 <sub>498</sub>	17.94 <sub>29</sub>	53.26 <sub>62</sub>	50.66 <sub>87</sub>
26.7	27.346 <sub>326</sub>	26.14 <sub>158</sub>	34.279 <sub>317</sub>	18.67 <sub>73</sub>	39.091 <sub>494</sub>	17.65 <sub>1</sub>	53.88 <sub>59</sub>	51.53 <sub>151</sub>
Nov. 5.7	27.672 <sub>311</sub>	27.72 <sub>209</sub>	34.596 <sub>311</sub>	17.94 <sub>72</sub>	39.585 <sub>481</sub>	17.66 <sub>32</sub>	54.47 <sub>55</sub>	53.04 <sub>211</sub>
15.7	27.983 <sub>289</sub>	29.81 <sub>250</sub>	34.907 <sub>296</sub>	17.22 <sub>68</sub>	40.066 <sub>455</sub>	17.98 <sub>65</sub>	55.02 <sub>49</sub>	55.15 <sub>263</sub>
25.6	28.272 <sub>256</sub>	32.31 <sub>284</sub>	35.203 <sub>275</sub>	16.54 <sub>60</sub>	40.521 <sub>419</sub>	18.63 <sub>96</sub>	55.51 <sub>41</sub>	57.78 <sub>307</sub>
Dez. 5.6	28.528 <sub>217</sub>	35.15 <sub>309</sub>	35.478 <sub>245</sub>	15.94 <sub>49</sub>	40.940 <sub>369</sub>	19.59 <sub>126</sub>	55.92 <sub>31</sub>	60.85 <sub>341</sub>
15.6	28.745 <sub>169</sub>	38.24 <sub>321</sub>	35.723 <sub>207</sub>	15.45 <sub>37</sub>	41.309 <sub>307</sub>	20.85 <sub>154</sub>	56.23 <sub>21</sub>	64.26 <sub>361</sub>
25.5	28.914 <sub>115</sub>	41.45 <sub>325</sub>	35.930 <sub>161</sub>	15.08 <sub>22</sub>	41.616 <sub>236</sub>	22.39 <sub>176</sub>	56.44 <sub>10</sub>	67.87 <sub>371</sub>
35.5	29.029	44.70	36.091	14.86	41.852	24.15	56.54	71.58
Mittl. Ort sec $\delta$ , tg $\delta$	25.350 1.251	30.52 -0.752	31.586 1.079	31.58 +0.407	35.481 1.762	41.38 +1.451	52.51 2.649	58.97 -2.453

Mittlere Zeit Greenw.	282) $\epsilon$ Geminorum		284) $\gamma$ 1308		285) $\beta$ Canis min.		286) $\rho$ Geminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	7 <sup>h</sup> 20 <sup>m</sup>	+27° 56'	7 <sup>h</sup> 22 <sup>m</sup>	+68° 37'	7 <sup>h</sup> 22 <sup>m</sup>	+8° 26'	7 <sup>h</sup> 24 <sup>m</sup>	+31° 56'
1923								
Jan. 0.5	58.113 <sup>141</sup>	56.72 <sup>20</sup>	55.87 <sup>26</sup>	16.84 <sup>247</sup>	59.797 <sup>125</sup>	33.31 <sup>103</sup>	11.013 <sup>150</sup>	8.21 <sup>45</sup>
10.5	58.254 <sup>87</sup>	56.92 <sup>35</sup>	56.13 <sup>13</sup>	19.31 <sup>258</sup>	59.922 <sup>76</sup>	32.28 <sup>86</sup>	11.163 <sup>93</sup>	8.66 <sup>60</sup>
20.5	58.341 <sup>29</sup>	57.27 <sup>49</sup>	56.26 <sup>1</sup>	21.89 <sup>261</sup>	59.998 <sup>25</sup>	31.42 <sup>70</sup>	11.256 <sup>34</sup>	9.26 <sup>73</sup>
30.5	58.370 <sup>26</sup>	57.76 <sup>57</sup>	56.27 <sup>12</sup>	24.50 <sup>253</sup>	60.023 <sup>25</sup>	30.72 <sup>53</sup>	11.290 <sup>23</sup>	9.99 <sup>80</sup>
Feb. 9.4	58.344 <sup>78</sup>	58.33 <sup>61</sup>	56.15 <sup>24</sup>	27.03 <sup>234</sup>	59.998 <sup>71</sup>	30.19 <sup>37</sup>	11.267 <sup>79</sup>	10.79 <sup>83</sup>
19.4	58.266 <sup>123</sup>	58.94 <sup>63</sup>	55.91 <sup>33</sup>	29.37 <sup>207</sup>	59.927 <sup>111</sup>	29.82 <sup>21</sup>	11.188 <sup>125</sup>	11.62 <sup>81</sup>
März 1.4	58.143 <sup>159</sup>	59.57 <sup>59</sup>	55.58 <sup>43</sup>	31.44 <sup>171</sup>	59.816 <sup>143</sup>	29.61 <sup>8</sup>	11.063 <sup>163</sup>	12.43 <sup>75</sup>
11.3	57.984 <sup>184</sup>	60.16 <sup>52</sup>	55.15 <sup>49</sup>	33.15 <sup>129</sup>	59.673 <sup>165</sup>	29.53 <sup>3</sup>	10.900 <sup>190</sup>	13.18 <sup>64</sup>
21.3	57.800 <sup>198</sup>	60.68 <sup>42</sup>	54.66 <sup>52</sup>	34.44 <sup>82</sup>	59.508 <sup>177</sup>	29.56 <sup>14</sup>	10.710 <sup>205</sup>	13.82 <sup>50</sup>
31.3	57.602 <sup>200</sup>	61.10 <sup>32</sup>	54.14 <sup>53</sup>	35.26 <sup>33</sup>	59.331 <sup>180</sup>	29.70 <sup>23</sup>	10.505 <sup>208</sup>	14.32 <sup>35</sup>
Apr. 10.3	57.402 <sup>192</sup>	61.42 <sup>18</sup>	53.61 <sup>52</sup>	35.59 <sup>16</sup>	59.151 <sup>171</sup>	29.93 <sup>30</sup>	10.297 <sup>200</sup>	14.67 <sup>19</sup>
20.2	57.210 <sup>173</sup>	61.60 <sup>7</sup>	53.09 <sup>48</sup>	35.43 <sup>63</sup>	58.980 <sup>155</sup>	30.23 <sup>38</sup>	10.097 <sup>182</sup>	14.86 <sup>3</sup>
30.2	57.037 <sup>146</sup>	61.67 <sup>4</sup>	52.61 <sup>43</sup>	34.80 <sup>108</sup>	58.825 <sup>132</sup>	30.61 <sup>45</sup>	9.915 <sup>154</sup>	14.89 <sup>13</sup>
Mai 10.2	56.891 <sup>113</sup>	61.63 <sup>15</sup>	52.18 <sup>36</sup>	33.72 <sup>148</sup>	58.693 <sup>103</sup>	31.06 <sup>51</sup>	9.761 <sup>120</sup>	14.76 <sup>26</sup>
20.2	56.778 <sup>76</sup>	61.48 <sup>23</sup>	51.82 <sup>27</sup>	32.24 <sup>181</sup>	58.590 <sup>70</sup>	31.57 <sup>58</sup>	9.641 <sup>82</sup>	14.50 <sup>38</sup>
30.1	56.702 <sup>35</sup>	61.25 <sup>29</sup>	51.55 <sup>17</sup>	30.43 <sup>209</sup>	58.520 <sup>35</sup>	32.15 <sup>63</sup>	9.559 <sup>41</sup>	14.12 <sup>47</sup>
Juni 9.1	56.667 <sup>5</sup>	60.96 <sup>35</sup>	51.38 <sup>8</sup>	28.34 <sup>231</sup>	58.485 <sup>1</sup>	32.78 <sup>68</sup>	9.518 <sup>2</sup>	13.65 <sup>55</sup>
19.1	56.672 <sup>47</sup>	60.61 <sup>39</sup>	51.30 <sup>2</sup>	26.03 <sup>246</sup>	58.486 <sup>38</sup>	33.46 <sup>70</sup>	9.520 <sup>45</sup>	13.10 <sup>61</sup>
29.0	56.719 <sup>86</sup>	60.22 <sup>41</sup>	51.32 <sup>12</sup>	23.57 <sup>253</sup>	58.524 <sup>72</sup>	34.16 <sup>72</sup>	9.565 <sup>86</sup>	12.49 <sup>65</sup>
Juli 9.0	56.805 <sup>124</sup>	59.81 <sup>44</sup>	51.44 <sup>22</sup>	21.04 <sup>255</sup>	58.596 <sup>105</sup>	34.88 <sup>71</sup>	9.651 <sup>125</sup>	11.84 <sup>67</sup>
19.0	56.929 <sup>158</sup>	59.37 <sup>45</sup>	51.66 <sup>30</sup>	18.49 <sup>251</sup>	58.701 <sup>136</sup>	35.59 <sup>66</sup>	9.776 <sup>161</sup>	11.17 <sup>69</sup>
29.0	57.087 <sup>189</sup>	58.92 <sup>48</sup>	51.96 <sup>39</sup>	15.98 <sup>242</sup>	58.837 <sup>164</sup>	36.25 <sup>59</sup>	9.937 <sup>194</sup>	10.48 <sup>71</sup>
Aug. 7.9	57.276 <sup>218</sup>	58.44 <sup>51</sup>	52.35 <sup>47</sup>	13.56 <sup>228</sup>	59.001 <sup>189</sup>	36.84 <sup>49</sup>	10.131 <sup>224</sup>	9.77 <sup>71</sup>
17.9	57.494 <sup>244</sup>	57.93 <sup>53</sup>	52.82 <sup>54</sup>	11.28 <sup>209</sup>	59.190 <sup>213</sup>	37.33 <sup>35</sup>	10.355 <sup>250</sup>	9.06 <sup>73</sup>
27.9	57.738 <sup>266</sup>	57.40 <sup>57</sup>	53.36 <sup>59</sup>	9.19 <sup>185</sup>	59.403 <sup>234</sup>	37.68 <sup>18</sup>	10.605 <sup>275</sup>	8.33 <sup>73</sup>
Sept. 6.9	58.004 <sup>286</sup>	56.83 <sup>61</sup>	53.95 <sup>65</sup>	7.34 <sup>159</sup>	59.637 <sup>253</sup>	37.86 <sup>2</sup>	10.880 <sup>296</sup>	7.60 <sup>74</sup>
16.8	58.290 <sup>303</sup>	56.22 <sup>64</sup>	54.60 <sup>69</sup>	5.75 <sup>129</sup>	59.890 <sup>268</sup>	37.84 <sup>22</sup>	11.176 <sup>313</sup>	6.86 <sup>75</sup>
26.8	58.593 <sup>316</sup>	55.58 <sup>67</sup>	55.29 <sup>72</sup>	4.46 <sup>96</sup>	60.158 <sup>281</sup>	37.62 <sup>45</sup>	11.489 <sup>329</sup>	6.11 <sup>73</sup>
Okt. 6.8	58.909 <sup>327</sup>	54.91 <sup>68</sup>	56.01 <sup>74</sup>	3.50 <sup>59</sup>	60.439 <sup>291</sup>	37.17 <sup>66</sup>	11.818 <sup>339</sup>	5.38 <sup>70</sup>
16.7	59.236 <sup>332</sup>	54.23 <sup>68</sup>	56.75 <sup>75</sup>	2.91 <sup>21</sup>	60.730 <sup>296</sup>	36.51 <sup>86</sup>	12.157 <sup>346</sup>	4.68 <sup>66</sup>
26.7	59.568 <sup>333</sup>	53.55 <sup>65</sup>	57.50 <sup>74</sup>	2.70 <sup>19</sup>	61.026 <sup>297</sup>	35.65 <sup>104</sup>	12.503 <sup>347</sup>	4.02 <sup>58</sup>
Nov. 5.7	59.901 <sup>327</sup>	52.90 <sup>58</sup>	58.24 <sup>72</sup>	2.89 <sup>61</sup>	61.323 <sup>292</sup>	34.61 <sup>116</sup>	12.850 <sup>341</sup>	3.44 <sup>48</sup>
15.7	60.228 <sup>313</sup>	52.32 <sup>48</sup>	58.96 <sup>68</sup>	3.50 <sup>102</sup>	61.615 <sup>280</sup>	33.45 <sup>125</sup>	13.191 <sup>327</sup>	2.96 <sup>35</sup>
25.6	60.541 <sup>291</sup>	51.84 <sup>37</sup>	59.64 <sup>62</sup>	4.52 <sup>142</sup>	61.895 <sup>260</sup>	32.20 <sup>129</sup>	13.518 <sup>305</sup>	2.61 <sup>18</sup>
Dez. 5.6	60.832 <sup>261</sup>	51.47 <sup>21</sup>	60.26 <sup>55</sup>	5.94 <sup>179</sup>	62.155 <sup>232</sup>	30.91 <sup>126</sup>	13.823 <sup>273</sup>	2.43 <sup>1</sup>
15.6	61.093 <sup>221</sup>	51.26 <sup>4</sup>	60.81 <sup>44</sup>	7.73 <sup>212</sup>	62.387 <sup>197</sup>	29.65 <sup>119</sup>	14.096 <sup>234</sup>	2.42 <sup>17</sup>
25.6	61.314 <sup>175</sup>	51.22 <sup>13</sup>	61.25 <sup>34</sup>	9.85 <sup>237</sup>	62.584 <sup>155</sup>	28.46 <sup>109</sup>	14.330 <sup>184</sup>	2.59 <sup>37</sup>
35.5	61.489	51.35	61.59	12.22	62.739	27.37	14.514	2.96
Mittl. Ort sec $\delta$ , tg $\delta$	56.824 1.132	68.81 +0.531	52.98 2.744	30.22 +2.555	58.574 1.011	44.23 +0.148	9.696 1.178	20.59 +0.623

Mittlere Zeit Greenw.	287) $\alpha$ (Geminorum <sup>1</sup> )		289) $\gamma$ Monocerotis		291) $\alpha$ Canis min. <sup>2</sup> )		292) $\gamma$ Lynceis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	7 <sup>h</sup> 29 <sup>m</sup>	+32° 3'	7 <sup>h</sup> 33 <sup>m</sup>	-3° 56'	7 <sup>h</sup> 35 <sup>m</sup>	+5° 25'	7 <sup>h</sup> 36 <sup>m</sup>	+58° 53'
1923								
Jan. 0.5	42.588 <sup>156</sup>	20.24 <sup>44</sup>	28.280 <sup>126</sup>	26.65 <sup>178</sup>	17.531 <sup>129</sup>	14.31 <sup>126</sup>	32.050 <sup>231</sup>	17.96 <sup>195</sup>
10.5	42.744 <sup>99</sup>	20.68 <sup>59</sup>	28.406 <sup>77</sup>	28.43 <sup>163</sup>	17.660 <sup>81</sup>	13.05 <sup>110</sup>	32.281 <sup>142</sup>	19.91 <sup>211</sup>
20.5	42.843 <sup>39</sup>	21.27 <sup>72</sup>	28.483 <sup>26</sup>	30.06 <sup>144</sup>	17.741 <sup>31</sup>	11.95 <sup>92</sup>	32.423 <sup>48</sup>	22.02 <sup>219</sup>
30.5	42.882 <sup>19</sup>	21.99 <sup>81</sup>	28.509 <sup>22</sup>	31.50 <sup>123</sup>	17.772 <sup>20</sup>	11.03 <sup>73</sup>	32.471 <sup>44</sup>	24.21 <sup>219</sup>
Feb. 9.4	42.863 <sup>73</sup>	22.80 <sup>84</sup>	28.487 <sup>68</sup>	32.73 <sup>101</sup>	17.752 <sup>65</sup>	10.30 <sup>54</sup>	32.427 <sup>131</sup>	26.40 <sup>208</sup>
19.4	42.790 <sup>121</sup>	23.64 <sup>83</sup>	28.419 <sup>108</sup>	33.74 <sup>77</sup>	17.687 <sup>106</sup>	9.76 <sup>36</sup>	32.296 <sup>208</sup>	28.48 <sup>190</sup>
März 1.4	42.669 <sup>160</sup>	24.47 <sup>77</sup>	28.311 <sup>140</sup>	34.51 <sup>53</sup>	17.581 <sup>139</sup>	9.40 <sup>20</sup>	32.088 <sup>273</sup>	30.38 <sup>163</sup>
11.3	42.509 <sup>188</sup>	25.24 <sup>67</sup>	28.171 <sup>162</sup>	35.04 <sup>32</sup>	17.442 <sup>162</sup>	9.20 <sup>5</sup>	31.815 <sup>319</sup>	32.01 <sup>130</sup>
21.3	42.321 <sup>204</sup>	25.91 <sup>54</sup>	28.009 <sup>177</sup>	35.36 <sup>9</sup>	17.280 <sup>175</sup>	9.15 <sup>8</sup>	31.496 <sup>350</sup>	33.31 <sup>92</sup>
31.3	42.117 <sup>209</sup>	26.45 <sup>38</sup>	27.832 <sup>180</sup>	35.45 <sup>12</sup>	17.105 <sup>178</sup>	9.23 <sup>20</sup>	31.146 <sup>361</sup>	34.23 <sup>51</sup>
Apr. 10.3	41.908 <sup>202</sup>	26.83 <sup>22</sup>	27.652 <sup>174</sup>	35.33 <sup>31</sup>	16.927 <sup>172</sup>	9.43 <sup>30</sup>	30.785 <sup>355</sup>	34.74 <sup>9</sup>
20.2	41.706 <sup>183</sup>	27.05 <sup>5</sup>	27.478 <sup>160</sup>	35.02 <sup>51</sup>	16.755 <sup>158</sup>	9.73 <sup>41</sup>	30.430 <sup>331</sup>	34.83 <sup>31</sup>
30.2	41.523 <sup>158</sup>	27.10 <sup>11</sup>	27.318 <sup>139</sup>	34.51 <sup>68</sup>	16.597 <sup>135</sup>	10.14 <sup>49</sup>	30.099 <sup>295</sup>	34.52 <sup>71</sup>
Mai 10.2	41.365 <sup>125</sup>	26.99 <sup>25</sup>	27.179 <sup>112</sup>	33.83 <sup>86</sup>	16.462 <sup>108</sup>	10.63 <sup>59</sup>	29.804 <sup>245</sup>	33.81 <sup>106</sup>
20.2	41.240 <sup>87</sup>	26.74 <sup>37</sup>	27.067 <sup>82</sup>	32.97 <sup>100</sup>	16.354 <sup>77</sup>	11.22 <sup>65</sup>	29.559 <sup>187</sup>	32.75 <sup>138</sup>
30.1	41.153 <sup>46</sup>	26.37 <sup>47</sup>	26.985 <sup>49</sup>	31.97 <sup>114</sup>	16.277 <sup>42</sup>	11.87 <sup>73</sup>	29.372 <sup>123</sup>	31.37 <sup>164</sup>
Juni 9.1	41.107 <sup>4</sup>	25.90 <sup>56</sup>	26.936 <sup>15</sup>	30.83 <sup>125</sup>	16.235 <sup>8</sup>	12.60 <sup>78</sup>	29.249 <sup>55</sup>	29.73 <sup>185</sup>
19.1	41.103 <sup>38</sup>	25.34 <sup>62</sup>	26.921 <sup>20</sup>	29.58 <sup>132</sup>	16.227 <sup>28</sup>	13.38 <sup>82</sup>	29.194 <sup>14</sup>	27.88 <sup>201</sup>
29.0	41.141 <sup>80</sup>	24.72 <sup>67</sup>	26.941 <sup>54</sup>	28.26 <sup>137</sup>	16.255 <sup>62</sup>	14.20 <sup>82</sup>	29.208 <sup>83</sup>	25.87 <sup>211</sup>
Juli 9.0	41.221 <sup>118</sup>	24.05 <sup>70</sup>	26.995 <sup>87</sup>	26.89 <sup>137</sup>	16.317 <sup>94</sup>	15.02 <sup>81</sup>	29.291 <sup>149</sup>	23.76 <sup>216</sup>
19.0	41.339 <sup>155</sup>	23.35 <sup>73</sup>	27.082 <sup>117</sup>	25.52 <sup>133</sup>	16.411 <sup>125</sup>	15.83 <sup>77</sup>	29.440 <sup>211</sup>	21.60 <sup>217</sup>
29.0	41.494 <sup>187</sup>	22.62 <sup>74</sup>	27.199 <sup>146</sup>	24.19 <sup>123</sup>	16.536 <sup>153</sup>	16.60 <sup>68</sup>	29.651 <sup>270</sup>	19.43 <sup>212</sup>
Aug. 7.9	41.681 <sup>218</sup>	21.88 <sup>77</sup>	27.345 <sup>173</sup>	22.96 <sup>108</sup>	16.689 <sup>180</sup>	17.28 <sup>57</sup>	29.921 <sup>324</sup>	17.31 <sup>204</sup>
17.9	41.899 <sup>246</sup>	21.11 <sup>77</sup>	27.518 <sup>198</sup>	21.88 <sup>90</sup>	16.869 <sup>203</sup>	17.85 <sup>41</sup>	30.245 <sup>372</sup>	15.27 <sup>193</sup>
27.9	42.145 <sup>270</sup>	20.34 <sup>79</sup>	27.716 <sup>219</sup>	20.98 <sup>65</sup>	17.072 <sup>225</sup>	18.26 <sup>22</sup>	30.617 <sup>416</sup>	13.34 <sup>176</sup>
Sept. 6.9	42.415 <sup>292</sup>	19.55 <sup>80</sup>	27.935 <sup>240</sup>	20.33 <sup>37</sup>	17.297 <sup>244</sup>	18.48 <sup>0</sup>	31.033 <sup>454</sup>	11.58 <sup>159</sup>
16.8	42.707 <sup>311</sup>	18.75 <sup>80</sup>	28.175 <sup>258</sup>	19.96 <sup>5</sup>	17.541 <sup>261</sup>	18.48 <sup>23</sup>	31.487 <sup>486</sup>	9.99 <sup>136</sup>
26.8	43.018 <sup>326</sup>	17.95 <sup>79</sup>	28.433 <sup>272</sup>	19.91 <sup>27</sup>	17.802 <sup>275</sup>	18.25 <sup>48</sup>	31.973 <sup>513</sup>	8.63 <sup>111</sup>
Okt. 6.8	43.344 <sup>338</sup>	17.16 <sup>77</sup>	28.705 <sup>284</sup>	20.18 <sup>62</sup>	18.077 <sup>287</sup>	17.77 <sup>73</sup>	32.486 <sup>531</sup>	7.52 <sup>84</sup>
16.7	43.682 <sup>346</sup>	16.39 <sup>71</sup>	28.989 <sup>290</sup>	20.80 <sup>93</sup>	18.364 <sup>293</sup>	17.04 <sup>96</sup>	33.017 <sup>542</sup>	6.68 <sup>53</sup>
26.7	44.028 <sup>348</sup>	15.68 <sup>64</sup>	29.279 <sup>293</sup>	21.73 <sup>124</sup>	18.657 <sup>295</sup>	16.08 <sup>116</sup>	33.559 <sup>544</sup>	6.15 <sup>19</sup>
Nov. 5.7	44.376 <sup>343</sup>	15.04 <sup>53</sup>	29.572 <sup>288</sup>	22.97 <sup>149</sup>	18.952 <sup>292</sup>	14.92 <sup>132</sup>	34.103 <sup>534</sup>	5.96 <sup>15</sup>
15.7	44.719 <sup>330</sup>	14.51 <sup>40</sup>	29.860 <sup>277</sup>	24.46 <sup>168</sup>	19.244 <sup>280</sup>	13.60 <sup>143</sup>	34.637 <sup>511</sup>	6.11 <sup>53</sup>
25.6	45.049 <sup>308</sup>	14.11 <sup>23</sup>	30.137 <sup>258</sup>	26.14 <sup>183</sup>	19.524 <sup>261</sup>	12.17 <sup>149</sup>	35.148 <sup>476</sup>	6.64 <sup>88</sup>
Dez. 5.6	45.357 <sup>278</sup>	13.88 <sup>5</sup>	30.395 <sup>230</sup>	27.97 <sup>189</sup>	19.785 <sup>235</sup>	10.68 <sup>149</sup>	35.624 <sup>425</sup>	7.52 <sup>123</sup>
15.6	45.635 <sup>239</sup>	13.83 <sup>15</sup>	30.625 <sup>196</sup>	29.86 <sup>189</sup>	20.020 <sup>200</sup>	9.19 <sup>143</sup>	36.049 <sup>362</sup>	8.75 <sup>156</sup>
25.6	45.874 <sup>190</sup>	13.98 <sup>34</sup>	30.821 <sup>155</sup>	31.75 <sup>182</sup>	20.220 <sup>159</sup>	7.76 <sup>132</sup>	36.411 <sup>287</sup>	10.31 <sup>183</sup>
35.5	46.064	14.32	30.976	33.57	20.379	6.44	36.698	12.14
Mittl. Ort sec $\delta$ , tg $\delta$	41.286 1.180	32.78 +0.626	27.023 1.002	16.88 -0.069	16.317 1.004	24.99 +0.095	30.088 1.936	31.99 +1.657

1) AR. der Mitte; Dekl. des folgenden helleren Sterns

2) Ort des hellen Sterns; die jährliche Parallaxe (0.33) ist bereits berücksichtigt



Mittlere Zeit Greenw.	294) $\alpha$ Geminorum		295) $\beta$ Geminorum		296) $\pi$ Geminorum		297) $\zeta$ Volantis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	7 <sup>h</sup> 39 <sup>m</sup>	+24° 34'	7 <sup>h</sup> 40 <sup>m</sup>	+28° 12'	7 <sup>h</sup> 42 <sup>m</sup>	+33° 36'	7 <sup>h</sup> 42 <sup>m</sup>	-72° 25'
Jan. 0.5	49.327 <sup>158</sup>	49.74 <sup>7</sup>	37.656 <sup>161</sup>	35.76 <sup>15</sup>	34.017 <sup>173</sup>	8.48 <sup>48</sup>	51.70 <sup>9</sup>	20.40 <sup>375</sup>
10.5	49.485 <sup>104</sup>	49.67 <sup>10</sup>	37.817 <sup>107</sup>	35.91 <sup>33</sup>	34.190 <sup>115</sup>	8.96 <sup>66</sup>	51.79 <sup>5</sup>	24.15 <sup>374</sup>
20.5	49.589 <sup>49</sup>	49.77 <sup>27</sup>	37.924 <sup>50</sup>	36.24 <sup>48</sup>	34.305 <sup>55</sup>	9.62 <sup>81</sup>	51.74 <sup>19</sup>	27.89 <sup>361</sup>
30.5	49.638 <sup>7</sup>	50.04 <sup>38</sup>	37.974 <sup>7</sup>	36.72 <sup>60</sup>	34.360 <sup>5</sup>	10.43 <sup>91</sup>	51.55 <sup>32</sup>	31.50 <sup>339</sup>
Feb. 9.4	49.631 <sup>58</sup>	50.42 <sup>48</sup>	37.967 <sup>60</sup>	37.32 <sup>67</sup>	34.355 <sup>61</sup>	11.34 <sup>96</sup>	51.23 <sup>44</sup>	34.89 <sup>309</sup>
19.4	49.573 <sup>104</sup>	50.90 <sup>53</sup>	37.907 <sup>108</sup>	37.99 <sup>71</sup>	34.294 <sup>112</sup>	12.30 <sup>95</sup>	50.79 <sup>55</sup>	37.98 <sup>272</sup>
März 1.4	49.469 <sup>141</sup>	51.43 <sup>56</sup>	37.799 <sup>148</sup>	38.70 <sup>68</sup>	34.182 <sup>153</sup>	13.25 <sup>89</sup>	50.24 <sup>62</sup>	40.70 <sup>230</sup>
11.4	49.328 <sup>170</sup>	51.99 <sup>52</sup>	37.651 <sup>175</sup>	39.38 <sup>63</sup>	34.029 <sup>185</sup>	14.14 <sup>79</sup>	49.62 <sup>70</sup>	43.00 <sup>182</sup>
21.3	49.158 <sup>185</sup>	52.51 <sup>47</sup>	37.476 <sup>193</sup>	40.01 <sup>54</sup>	33.844 <sup>203</sup>	14.93 <sup>65</sup>	48.92 <sup>73</sup>	44.82 <sup>131</sup>
31.3	48.973 <sup>192</sup>	52.98 <sup>39</sup>	37.283 <sup>199</sup>	40.55 <sup>43</sup>	33.641 <sup>210</sup>	15.58 <sup>48</sup>	48.19 <sup>76</sup>	46.13 <sup>79</sup>
Apr. 10.3	48.781 <sup>186</sup>	53.37 <sup>31</sup>	37.084 <sup>194</sup>	40.98 <sup>30</sup>	33.431 <sup>205</sup>	16.06 <sup>30</sup>	47.43 <sup>76</sup>	46.92 <sup>26</sup>
20.2	48.595 <sup>171</sup>	53.68 <sup>21</sup>	36.890 <sup>179</sup>	41.28 <sup>17</sup>	33.226 <sup>190</sup>	16.36 <sup>11</sup>	46.67 <sup>74</sup>	47.18 <sup>28</sup>
30.2	48.424 <sup>149</sup>	53.89 <sup>12</sup>	36.711 <sup>156</sup>	41.45 <sup>4</sup>	33.036 <sup>166</sup>	16.47 <sup>7</sup>	45.93 <sup>70</sup>	46.90 <sup>81</sup>
Mai 10.2	48.275 <sup>119</sup>	54.01 <sup>4</sup>	36.555 <sup>125</sup>	41.49 <sup>7</sup>	32.870 <sup>135</sup>	16.40 <sup>23</sup>	45.23 <sup>65</sup>	46.09 <sup>130</sup>
20.2	48.156 <sup>86</sup>	54.05 <sup>4</sup>	36.430 <sup>91</sup>	41.42 <sup>18</sup>	32.735 <sup>98</sup>	16.17 <sup>38</sup>	44.58 <sup>59</sup>	44.79 <sup>178</sup>
30.1	48.070 <sup>49</sup>	54.01 <sup>11</sup>	36.339 <sup>53</sup>	41.24 <sup>27</sup>	32.637 <sup>58</sup>	15.79 <sup>51</sup>	43.99 <sup>50</sup>	43.01 <sup>221</sup>
Juni 9.1	48.021 <sup>10</sup>	53.90 <sup>16</sup>	36.286 <sup>14</sup>	40.97 <sup>35</sup>	32.579 <sup>17</sup>	15.28 <sup>62</sup>	43.49 <sup>40</sup>	40.80 <sup>258</sup>
19.1	48.011 <sup>28</sup>	53.74 <sup>21</sup>	36.272 <sup>27</sup>	40.62 <sup>40</sup>	32.562 <sup>25</sup>	14.66 <sup>70</sup>	43.09 <sup>30</sup>	38.22 <sup>289</sup>
29.1	48.039 <sup>65</sup>	53.53 <sup>24</sup>	36.299 <sup>65</sup>	40.22 <sup>46</sup>	32.587 <sup>66</sup>	13.96 <sup>77</sup>	42.79 <sup>19</sup>	35.33 <sup>311</sup>
Juli 9.0	48.104 <sup>101</sup>	53.29 <sup>29</sup>	36.364 <sup>102</sup>	39.76 <sup>50</sup>	32.653 <sup>106</sup>	13.19 <sup>83</sup>	42.60 <sup>7</sup>	32.22 <sup>325</sup>
19.0	48.205 <sup>135</sup>	53.00 <sup>33</sup>	36.466 <sup>136</sup>	39.26 <sup>55</sup>	32.759 <sup>143</sup>	12.36 <sup>86</sup>	42.53 <sup>5</sup>	28.97 <sup>330</sup>
29.0	48.340 <sup>166</sup>	52.67 <sup>37</sup>	36.602 <sup>170</sup>	38.71 <sup>58</sup>	32.902 <sup>177</sup>	11.50 <sup>89</sup>	42.58 <sup>17</sup>	25.67 <sup>323</sup>
Aug. 7.9	48.506 <sup>195</sup>	52.30 <sup>43</sup>	36.772 <sup>198</sup>	38.13 <sup>63</sup>	33.079 <sup>210</sup>	10.61 <sup>91</sup>	42.75 <sup>29</sup>	22.44 <sup>308</sup>
17.9	48.701 <sup>221</sup>	51.87 <sup>49</sup>	36.970 <sup>227</sup>	37.50 <sup>67</sup>	33.289 <sup>237</sup>	9.70 <sup>94</sup>	43.04 <sup>40</sup>	19.36 <sup>281</sup>
27.9	48.922 <sup>245</sup>	51.38 <sup>56</sup>	37.197 <sup>251</sup>	36.83 <sup>71</sup>	33.526 <sup>265</sup>	8.76 <sup>94</sup>	43.44 <sup>50</sup>	16.55 <sup>244</sup>
Sept. 6.9	49.167 <sup>266</sup>	50.82 <sup>63</sup>	37.448 <sup>273</sup>	36.12 <sup>76</sup>	33.791 <sup>288</sup>	7.82 <sup>95</sup>	43.94 <sup>59</sup>	14.11 <sup>197</sup>
16.8	49.433 <sup>286</sup>	50.19 <sup>71</sup>	37.721 <sup>292</sup>	35.36 <sup>80</sup>	34.079 <sup>309</sup>	6.87 <sup>95</sup>	44.53 <sup>67</sup>	12.14 <sup>143</sup>
26.8	49.719 <sup>302</sup>	49.48 <sup>77</sup>	38.013 <sup>310</sup>	34.56 <sup>83</sup>	34.388 <sup>327</sup>	5.92 <sup>93</sup>	45.20 <sup>73</sup>	10.71 <sup>83</sup>
Okt. 6.8	50.021 <sup>315</sup>	48.71 <sup>83</sup>	38.323 <sup>324</sup>	33.73 <sup>85</sup>	34.715 <sup>342</sup>	4.99 <sup>89</sup>	45.93 <sup>75</sup>	9.88 <sup>18</sup>
16.8	50.336 <sup>324</sup>	47.88 <sup>85</sup>	38.647 <sup>332</sup>	32.88 <sup>84</sup>	35.057 <sup>352</sup>	4.10 <sup>82</sup>	46.68 <sup>77</sup>	9.70 <sup>49</sup>
26.7	50.660 <sup>328</sup>	47.03 <sup>86</sup>	38.979 <sup>337</sup>	32.04 <sup>81</sup>	35.409 <sup>355</sup>	3.28 <sup>73</sup>	47.45 <sup>75</sup>	10.19 <sup>115</sup>
Nov. 5.7	50.988 <sup>326</sup>	46.17 <sup>83</sup>	39.316 <sup>334</sup>	31.23 <sup>73</sup>	35.764 <sup>354</sup>	2.55 <sup>61</sup>	48.20 <sup>71</sup>	11.34 <sup>178</sup>
15.7	51.314 <sup>315</sup>	45.34 <sup>75</sup>	39.650 <sup>323</sup>	30.50 <sup>63</sup>	36.118 <sup>342</sup>	1.94 <sup>45</sup>	48.91 <sup>64</sup>	13.12 <sup>234</sup>
25.6	51.629 <sup>297</sup>	44.59 <sup>65</sup>	39.973 <sup>305</sup>	29.87 <sup>50</sup>	36.460 <sup>323</sup>	1.49 <sup>27</sup>	49.55 <sup>55</sup>	15.46 <sup>284</sup>
Dec. 5.6	51.926 <sup>269</sup>	43.94 <sup>51</sup>	40.278 <sup>276</sup>	29.37 <sup>32</sup>	36.783 <sup>294</sup>	1.22 <sup>6</sup>	50.10 <sup>44</sup>	18.30 <sup>323</sup>
15.6	52.195 <sup>233</sup>	43.43 <sup>34</sup>	40.554 <sup>240</sup>	29.05 <sup>14</sup>	37.077 <sup>255</sup>	1.16 <sup>16</sup>	50.54 <sup>31</sup>	21.53 <sup>352</sup>
25.6	52.428 <sup>190</sup>	43.09 <sup>17</sup>	40.794 <sup>195</sup>	28.91 <sup>6</sup>	37.332 <sup>207</sup>	1.32 <sup>38</sup>	50.85 <sup>18</sup>	25.05 <sup>368</sup>
35.5	52.618	42.92	40.989	28.97	37.539	1.70	51.03	28.73
Mittl. Ort sec $\delta$ , tg $\delta$	48.113 1.100	61.99 +0.458	36.423 1.135	48.30 +0.537	32.745 1.201	21.48 +0.664	46.47 3.311	17.05 -3.157

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	300) $\gamma$ Argus		303) $\gamma$ Argus		305) $\chi$ (Geminorum)		306) $\zeta$ Argus	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$7^h 50^m$	$+74^\circ 7'$	$7^h 54^m$	$-52^\circ 46'$	$7^h 58^m$	$+28^\circ 0'$	$8^h 0^m$	$-39^\circ 47'$
Jan. 0.6	64.05 <sup>41</sup>	18.41 <sup>256</sup>	51.804 <sup>127</sup>	34.15 <sup>367</sup>	48.718 <sup>182</sup>	28.21 <sup>7</sup>	54.478 <sup>136</sup>	12.41 <sup>338</sup>
10.5	64.46 <sup>25</sup>	20.97 <sup>275</sup>	51.931 <sup>52</sup>	37.82 <sup>363</sup>	48.900 <sup>128</sup>	28.28 <sup>26</sup>	54.614 <sup>77</sup>	15.79 <sup>333</sup>
20.5	64.71 <sup>8</sup>	23.72 <sup>283</sup>	51.983 <sup>33</sup>	41.45 <sup>350</sup>	49.028 <sup>71</sup>	28.54 <sup>45</sup>	54.691 <sup>16</sup>	19.12 <sup>319</sup>
30.5	64.79 <sup>8</sup>	26.55 <sup>282</sup>	51.960 <sup>95</sup>	44.95 <sup>327</sup>	49.099 <sup>12</sup>	28.99 <sup>59</sup>	54.707 <sup>44</sup>	22.31 <sup>296</sup>
Feb. 9.4	64.71 <sup>25</sup>	29.37 <sup>267</sup>	51.865 <sup>162</sup>	48.22 <sup>296</sup>	49.112 <sup>41</sup>	29.58 <sup>69</sup>	54.663 <sup>100</sup>	25.27 <sup>267</sup>
19.4	64.46 <sup>39</sup>	32.04 <sup>243</sup>	51.703 <sup>220</sup>	51.18 <sup>261</sup>	49.071 <sup>91</sup>	30.27 <sup>74</sup>	54.563 <sup>149</sup>	27.94 <sup>231</sup>
März 1.4	64.07 <sup>52</sup>	34.47 <sup>209</sup>	51.483 <sup>268</sup>	53.79 <sup>218</sup>	48.980 <sup>131</sup>	31.01 <sup>75</sup>	54.414 <sup>190</sup>	30.25 <sup>191</sup>
11.4	63.55 <sup>61</sup>	36.56 <sup>167</sup>	51.215 <sup>305</sup>	55.97 <sup>172</sup>	48.849 <sup>163</sup>	31.76 <sup>72</sup>	54.224 <sup>221</sup>	32.16 <sup>150</sup>
21.3	62.94 <sup>68</sup>	38.23 <sup>120</sup>	50.910 <sup>330</sup>	57.69 <sup>122</sup>	48.686 <sup>184</sup>	32.48 <sup>63</sup>	54.003 <sup>242</sup>	33.66 <sup>104</sup>
31.3	62.26 <sup>71</sup>	39.43 <sup>68</sup>	50.580 <sup>342</sup>	58.91 <sup>73</sup>	48.502 <sup>193</sup>	33.11 <sup>54</sup>	53.761 <sup>253</sup>	34.70 <sup>59</sup>
Apr. 10.3	61.55 <sup>72</sup>	40.11 <sup>16</sup>	50.238 <sup>343</sup>	59.64 <sup>21</sup>	48.309 <sup>192</sup>	33.65 <sup>40</sup>	53.508 <sup>253</sup>	35.29 <sup>13</sup>
20.3	60.83 <sup>69</sup>	40.27 <sup>38</sup>	49.895 <sup>333</sup>	59.85 <sup>30</sup>	48.117 <sup>180</sup>	34.05 <sup>28</sup>	53.255 <sup>244</sup>	35.42 <sup>33</sup>
30.2	60.14 <sup>62</sup>	39.89 <sup>87</sup>	49.562 <sup>312</sup>	59.55 <sup>80</sup>	47.937 <sup>159</sup>	34.33 <sup>14</sup>	53.011 <sup>227</sup>	35.09 <sup>77</sup>
Mai 10.2	59.52 <sup>55</sup>	39.02 <sup>134</sup>	49.250 <sup>284</sup>	58.75 <sup>128</sup>	47.778 <sup>134</sup>	34.47 <sup>1</sup>	52.784 <sup>203</sup>	34.32 <sup>121</sup>
20.2	58.97 <sup>46</sup>	37.68 <sup>175</sup>	48.966 <sup>247</sup>	57.47 <sup>172</sup>	47.644 <sup>101</sup>	34.48 <sup>11</sup>	52.581 <sup>173</sup>	33.11 <sup>159</sup>
30.1	58.51 <sup>34</sup>	35.93 <sup>209</sup>	48.719 <sup>205</sup>	55.75 <sup>213</sup>	47.543 <sup>65</sup>	34.37 <sup>22</sup>	52.408 <sup>138</sup>	31.52 <sup>195</sup>
Juni 9.1	58.17 <sup>22</sup>	33.84 <sup>239</sup>	48.514 <sup>157</sup>	53.62 <sup>247</sup>	47.478 <sup>28</sup>	34.15 <sup>31</sup>	52.270 <sup>101</sup>	29.57 <sup>225</sup>
19.1	57.95 <sup>10</sup>	31.45 <sup>260</sup>	48.357 <sup>106</sup>	51.15 <sup>276</sup>	47.450 <sup>9</sup>	33.84 <sup>39</sup>	52.169 <sup>61</sup>	27.32 <sup>251</sup>
29.1	57.85 <sup>4</sup>	28.85 <sup>275</sup>	48.251 <sup>51</sup>	48.39 <sup>297</sup>	47.459 <sup>48</sup>	33.45 <sup>47</sup>	52.108 <sup>19</sup>	24.81 <sup>269</sup>
Juli 9.0	57.89 <sup>17</sup>	26.10 <sup>283</sup>	48.200 <sup>3</sup>	45.42 <sup>310</sup>	47.507 <sup>84</sup>	32.98 <sup>53</sup>	52.089 <sup>24</sup>	22.12 <sup>279</sup>
19.0	58.06 <sup>28</sup>	23.27 <sup>284</sup>	48.203 <sup>60</sup>	42.32 <sup>313</sup>	47.591 <sup>118</sup>	32.45 <sup>58</sup>	52.113 <sup>66</sup>	19.33 <sup>281</sup>
29.0	58.34 <sup>41</sup>	20.43 <sup>279</sup>	48.263 <sup>115</sup>	39.19 <sup>307</sup>	47.709 <sup>151</sup>	31.87 <sup>65</sup>	52.179 <sup>107</sup>	16.52 <sup>275</sup>
Aug. 8.0	58.75 <sup>52</sup>	17.64 <sup>268</sup>	48.378 <sup>170</sup>	36.12 <sup>291</sup>	47.860 <sup>182</sup>	31.22 <sup>70</sup>	52.286 <sup>149</sup>	13.77 <sup>258</sup>
17.9	59.27 <sup>62</sup>	14.96 <sup>253</sup>	48.548 <sup>223</sup>	33.21 <sup>265</sup>	48.042 <sup>210</sup>	30.52 <sup>77</sup>	52.435 <sup>187</sup>	11.19 <sup>234</sup>
27.9	59.89 <sup>71</sup>	12.43 <sup>230</sup>	48.771 <sup>271</sup>	30.56 <sup>228</sup>	48.252 <sup>237</sup>	29.75 <sup>82</sup>	52.622 <sup>225</sup>	8.85 <sup>200</sup>
Sept. 6.9	60.60 <sup>79</sup>	10.13 <sup>205</sup>	49.042 <sup>325</sup>	28.28 <sup>184</sup>	48.489 <sup>261</sup>	28.93 <sup>88</sup>	52.847 <sup>259</sup>	6.85 <sup>157</sup>
16.8	61.39 <sup>85</sup>	8.08 <sup>174</sup>	49.357 <sup>354</sup>	26.44 <sup>131</sup>	48.750 <sup>283</sup>	28.05 <sup>94</sup>	53.106 <sup>288</sup>	5.28 <sup>108</sup>
26.8	62.24 <sup>92</sup>	6.34 <sup>139</sup>	49.711 <sup>384</sup>	25.13 <sup>72</sup>	49.033 <sup>303</sup>	27.11 <sup>97</sup>	53.394 <sup>314</sup>	4.20 <sup>54</sup>
Okt. 6.8	63.16 <sup>95</sup>	4.95 <sup>100</sup>	50.095 <sup>407</sup>	24.41 <sup>9</sup>	49.336 <sup>319</sup>	26.14 <sup>100</sup>	53.708 <sup>333</sup>	3.66 <sup>5</sup>
16.8	64.11 <sup>97</sup>	3.95 <sup>59</sup>	50.502 <sup>418</sup>	24.32 <sup>56</sup>	49.655 <sup>332</sup>	25.14 <sup>99</sup>	54.041 <sup>346</sup>	3.71 <sup>64</sup>
26.7	65.08 <sup>98</sup>	3.36 <sup>14</sup>	50.920 <sup>418</sup>	24.88 <sup>120</sup>	49.987 <sup>339</sup>	24.15 <sup>97</sup>	54.387 <sup>349</sup>	4.35 <sup>122</sup>
Nov. 5.7	66.06 <sup>96</sup>	3.22 <sup>32</sup>	51.338 <sup>407</sup>	26.08 <sup>180</sup>	50.326 <sup>340</sup>	23.18 <sup>89</sup>	54.736 <sup>345</sup>	5.57 <sup>178</sup>
15.7	67.02 <sup>92</sup>	3.54 <sup>80</sup>	51.745 <sup>382</sup>	27.88 <sup>235</sup>	50.666 <sup>333</sup>	22.29 <sup>78</sup>	55.081 <sup>329</sup>	7.35 <sup>227</sup>
25.7	67.94 <sup>86</sup>	4.34 <sup>125</sup>	52.127 <sup>345</sup>	30.23 <sup>281</sup>	50.999 <sup>317</sup>	21.51 <sup>64</sup>	55.410 <sup>305</sup>	9.62 <sup>268</sup>
Dez. 5.6	68.80 <sup>76</sup>	5.59 <sup>170</sup>	52.472 <sup>297</sup>	33.04 <sup>319</sup>	51.316 <sup>291</sup>	20.87 <sup>46</sup>	55.715 <sup>268</sup>	12.30 <sup>300</sup>
15.6	69.56 <sup>65</sup>	7.29 <sup>208</sup>	52.769 <sup>237</sup>	36.23 <sup>345</sup>	51.607 <sup>257</sup>	20.41 <sup>26</sup>	55.983 <sup>225</sup>	15.30 <sup>323</sup>
25.6	70.21 <sup>51</sup>	9.37 <sup>242</sup>	53.006 <sup>171</sup>	39.68 <sup>360</sup>	51.864 <sup>214</sup>	20.15 <sup>4</sup>	56.208 <sup>172</sup>	18.53 <sup>334</sup>
35.5	70.72	11.79	53.177	43.28	52.078	20.11	56.380	21.87
Mittl. Ort sec $\delta$ , tg $\delta$	60.60 3.656	33.56 +3.517	49.316 1.653	30.54 -1.316	47.549 1.133	41.06 +0.532	52.611 1.301	7.95 -0.833

Mittlere Zeit Greenw.	307) 27 Lynceis		308) * Navis		309) γ Argus		311) 20 Navis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	8 <sup>h</sup> 2 <sup>m</sup>	+51° 43'	8 <sup>h</sup> 4 <sup>m</sup>	-24° 4'	8 <sup>h</sup> 7 <sup>m</sup>	-47° 6'	8 <sup>h</sup> 9 <sup>m</sup>	-15° 33'
Jan. 0.6	41.913 <sup>243</sup>	33.31 <sup>144</sup>	17.322 <sup>145</sup>	59.65 <sup>284</sup>	11.700 <sup>146</sup>	35.87 <sup>356</sup>	48.957 <sup>154</sup>	26.44 <sup>246</sup>
10.5	42.156 <sup>169</sup>	34.75 <sup>167</sup>	17.467 <sup>94</sup>	62.49 <sup>274</sup>	11.846 <sup>78</sup>	39.43 <sup>354</sup>	49.111 <sup>105</sup>	28.90 <sup>236</sup>
20.5	42.325 <sup>90</sup>	36.42 <sup>182</sup>	17.561 <sup>40</sup>	65.23 <sup>258</sup>	11.924 <sup>12</sup>	42.97 <sup>342</sup>	49.216 <sup>54</sup>	31.26 <sup>217</sup>
30.5	42.415 <sup>11</sup>	38.24 <sup>190</sup>	17.601 <sup>13</sup>	67.81 <sup>236</sup>	11.936 <sup>56</sup>	46.39 <sup>321</sup>	49.270 <sup>2</sup>	33.43 <sup>197</sup>
Feb. 9.5	42.426 <sup>65</sup>	40.14 <sup>190</sup>	17.588 <sup>63</sup>	70.17 <sup>207</sup>	11.880 <sup>116</sup>	49.60 <sup>293</sup>	49.272 <sup>46</sup>	35.40 <sup>170</sup>
19.4	42.361 <sup>135</sup>	42.04 <sup>180</sup>	17.525 <sup>106</sup>	72.24 <sup>176</sup>	11.764 <sup>172</sup>	52.53 <sup>257</sup>	49.226 <sup>89</sup>	37.10 <sup>141</sup>
März 1.4	42.226 <sup>194</sup>	43.84 <sup>165</sup>	17.419 <sup>144</sup>	74.00 <sup>142</sup>	11.592 <sup>217</sup>	55.10 <sup>218</sup>	49.137 <sup>125</sup>	38.51 <sup>112</sup>
11.4	42.032 <sup>239</sup>	45.49 <sup>140</sup>	17.275 <sup>171</sup>	75.42 <sup>107</sup>	11.375 <sup>253</sup>	57.28 <sup>173</sup>	49.012 <sup>154</sup>	39.63 <sup>81</sup>
21.3	41.793 <sup>272</sup>	46.89 <sup>111</sup>	17.104 <sup>190</sup>	76.49 <sup>70</sup>	11.122 <sup>278</sup>	59.01 <sup>127</sup>	48.858 <sup>172</sup>	40.44 <sup>50</sup>
31.3	41.521 <sup>286</sup>	48.00 <sup>78</sup>	16.914 <sup>200</sup>	77.19 <sup>33</sup>	10.844 <sup>290</sup>	60.28 <sup>79</sup>	48.686 <sup>182</sup>	40.94 <sup>20</sup>
Apr. 10.3	41.235 <sup>288</sup>	48.78 <sup>43</sup>	16.714 <sup>199</sup>	77.52 <sup>3</sup>	10.554 <sup>294</sup>	61.07 <sup>29</sup>	48.504 <sup>182</sup>	41.14 <sup>10</sup>
20.3	40.947 <sup>275</sup>	49.21 <sup>6</sup>	16.515 <sup>190</sup>	77.49 <sup>40</sup>	10.260 <sup>286</sup>	61.36 <sup>20</sup>	48.322 <sup>174</sup>	41.04 <sup>40</sup>
30.2	40.672 <sup>249</sup>	49.27 <sup>29</sup>	16.325 <sup>175</sup>	77.09 <sup>73</sup>	9.974 <sup>269</sup>	61.16 <sup>68</sup>	48.148 <sup>159</sup>	40.64 <sup>66</sup>
Mai 10.2	40.423 <sup>214</sup>	48.98 <sup>62</sup>	16.150 <sup>152</sup>	76.36 <sup>107</sup>	9.705 <sup>246</sup>	60.48 <sup>114</sup>	47.989 <sup>138</sup>	39.98 <sup>94</sup>
20.2	40.209 <sup>171</sup>	48.36 <sup>93</sup>	15.998 <sup>126</sup>	75.29 <sup>136</sup>	9.459 <sup>213</sup>	59.34 <sup>157</sup>	47.851 <sup>113</sup>	39.04 <sup>117</sup>
30.2	40.038 <sup>121</sup>	47.43 <sup>120</sup>	15.872 <sup>96</sup>	73.93 <sup>164</sup>	9.246 <sup>178</sup>	57.77 <sup>197</sup>	47.738 <sup>84</sup>	37.87 <sup>138</sup>
Juni 9.1	39.917 <sup>69</sup>	46.23 <sup>143</sup>	15.776 <sup>62</sup>	72.29 <sup>186</sup>	9.068 <sup>137</sup>	55.80 <sup>231</sup>	47.654 <sup>53</sup>	36.49 <sup>157</sup>
19.1	39.848 <sup>13</sup>	44.80 <sup>161</sup>	15.714 <sup>29</sup>	70.43 <sup>205</sup>	8.931 <sup>93</sup>	53.49 <sup>259</sup>	47.601 <sup>21</sup>	34.92 <sup>171</sup>
29.1	39.835 <sup>41</sup>	43.19 <sup>175</sup>	15.685 <sup>6</sup>	68.38 <sup>217</sup>	8.838 <sup>46</sup>	50.90 <sup>282</sup>	47.580 <sup>12</sup>	33.21 <sup>180</sup>
Juli 9.0	39.876 <sup>95</sup>	41.44 <sup>185</sup>	15.691 <sup>41</sup>	66.21 <sup>224</sup>	8.792 <sup>1</sup>	48.08 <sup>294</sup>	47.592 <sup>44</sup>	31.41 <sup>185</sup>
19.0	39.971 <sup>146</sup>	39.59 <sup>191</sup>	15.732 <sup>75</sup>	63.97 <sup>224</sup>	8.793 <sup>50</sup>	45.14 <sup>299</sup>	47.636 <sup>76</sup>	29.56 <sup>183</sup>
29.0	40.117 <sup>195</sup>	37.68 <sup>194</sup>	15.807 <sup>109</sup>	61.73 <sup>215</sup>	8.843 <sup>98</sup>	42.15 <sup>295</sup>	47.712 <sup>107</sup>	27.73 <sup>176</sup>
Aug. 8.0	40.312 <sup>240</sup>	35.74 <sup>192</sup>	15.916 <sup>140</sup>	59.58 <sup>201</sup>	8.941 <sup>146</sup>	39.20 <sup>280</sup>	47.819 <sup>137</sup>	25.97 <sup>161</sup>
17.9	40.552 <sup>283</sup>	33.82 <sup>188</sup>	16.056 <sup>170</sup>	57.57 <sup>178</sup>	9.087 <sup>192</sup>	36.40 <sup>257</sup>	47.956 <sup>166</sup>	24.36 <sup>140</sup>
27.9	40.835 <sup>322</sup>	31.94 <sup>180</sup>	16.228 <sup>201</sup>	55.79 <sup>147</sup>	9.279 <sup>237</sup>	33.83 <sup>222</sup>	48.122 <sup>193</sup>	22.96 <sup>114</sup>
Sept. 6.9	41.157 <sup>358</sup>	30.14 <sup>170</sup>	16.429 <sup>229</sup>	54.32 <sup>110</sup>	9.516 <sup>276</sup>	31.61 <sup>182</sup>	48.315 <sup>219</sup>	21.82 <sup>80</sup>
16.9	41.515 <sup>390</sup>	28.44 <sup>155</sup>	16.658 <sup>253</sup>	53.22 <sup>68</sup>	9.792 <sup>312</sup>	29.79 <sup>128</sup>	48.534 <sup>242</sup>	21.02 <sup>42</sup>
26.8	41.905 <sup>417</sup>	26.89 <sup>139</sup>	16.911 <sup>275</sup>	52.54 <sup>21</sup>	10.104 <sup>343</sup>	28.51 <sup>74</sup>	48.776 <sup>263</sup>	20.60 <sup>2</sup>
Okt. 6.8	42.322 <sup>439</sup>	25.50 <sup>118</sup>	17.186 <sup>293</sup>	52.33 <sup>28</sup>	10.447 <sup>365</sup>	27.77 <sup>13</sup>	49.039 <sup>282</sup>	20.58 <sup>41</sup>
16.8	42.761 <sup>456</sup>	24.32 <sup>95</sup>	17.479 <sup>305</sup>	52.61 <sup>79</sup>	10.812 <sup>380</sup>	27.64 <sup>50</sup>	49.321 <sup>294</sup>	20.99 <sup>85</sup>
26.7	43.217 <sup>465</sup>	23.37 <sup>67</sup>	17.784 <sup>310</sup>	53.40 <sup>126</sup>	11.192 <sup>384</sup>	28.14 <sup>112</sup>	49.615 <sup>302</sup>	21.84 <sup>125</sup>
Nov. 5.7	43.682 <sup>464</sup>	22.70 <sup>38</sup>	18.094 <sup>310</sup>	54.66 <sup>170</sup>	11.576 <sup>379</sup>	29.26 <sup>171</sup>	49.917 <sup>302</sup>	23.09 <sup>163</sup>
15.7	44.146 <sup>454</sup>	22.32 <sup>4</sup>	18.404 <sup>300</sup>	56.36 <sup>209</sup>	11.955 <sup>361</sup>	30.97 <sup>224</sup>	50.219 <sup>296</sup>	24.72 <sup>195</sup>
25.7	44.600 <sup>430</sup>	22.28 <sup>30</sup>	18.704 <sup>282</sup>	58.45 <sup>241</sup>	12.316 <sup>333</sup>	33.21 <sup>271</sup>	50.515 <sup>280</sup>	26.67 <sup>220</sup>
Dez. 5.6	45.030 <sup>395</sup>	22.58 <sup>64</sup>	18.986 <sup>254</sup>	60.86 <sup>264</sup>	12.649 <sup>293</sup>	35.92 <sup>308</sup>	50.795 <sup>256</sup>	28.87 <sup>238</sup>
15.6	45.425 <sup>347</sup>	23.22 <sup>98</sup>	19.240 <sup>218</sup>	63.50 <sup>279</sup>	12.942 <sup>242</sup>	39.00 <sup>334</sup>	51.051 <sup>223</sup>	31.25 <sup>247</sup>
25.6	45.772 <sup>288</sup>	24.20 <sup>129</sup>	19.458 <sup>175</sup>	66.29 <sup>282</sup>	13.184 <sup>185</sup>	42.34 <sup>350</sup>	51.274 <sup>182</sup>	33.72 <sup>247</sup>
35.6	46.060	25.49	19.633	69.11	13.369	45.84	51.456	36.19
Mittl. Ort sec δ, tg δ	40.417 1.615	48.26 +1.268	15.861 1.095	53.46 -0.447	9.538 1.469	32.74 -1.077	47.639 1.038	19.35 -0.278



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	310) Br. 1147		312) $\beta$ Caneri		314) 31 Lynceis		315) $\epsilon$ Argus	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	8 <sup>h</sup> 9 <sup>m</sup>	+75° 59'	8 <sup>h</sup> 12 <sup>m</sup>	+9° 25'	8 <sup>h</sup> 17 <sup>m</sup>	+43° 25'	8 <sup>h</sup> 20 <sup>m</sup>	-59° 15'
Jan. 0.6	58.15	23.34	21.582	15.27	35.475	55.91	59.141	40.95
10.5	58.68	25.86	21.754	14.15	35.709	56.80	59.319	44.67
20.5	59.02	28.62	21.879	13.21	35.881	57.94	59.410	48.43
30.5	59.18	31.51	21.953	12.47	35.985	59.28	59.415	52.13
Feb. 9.5	59.15	34.42	21.975	11.93	36.021	60.75	59.334	55.66
19.4	58.93	37.23	21.948	11.57	35.989	62.29	59.175	58.95
März 1.4	58.54	39.84	21.876	11.39	35.896	63.82	58.945	61.91
11.4	58.00	42.14	21.766	11.37	35.750	65.26	58.653	64.49
21.4	57.35	44.05	21.627	11.47	35.563	66.56	58.314	66.63
31.3	56.61	45.48	21.469	11.68	35.346	67.66	57.939	68.30
Apr. 10.3	55.81	46.41	21.300	11.98	35.112	68.51	57.541	69.47
20.3	55.00	46.80	21.131	12.34	34.875	69.08	57.135	70.11
30.2	54.21	46.65	20.970	12.76	34.646	69.37	56.731	70.23
Mai 10.2	53.47	45.96	20.826	13.22	34.436	69.36	56.342	69.83
20.2	52.80	44.79	20.702	13.72	34.254	69.08	55.977	68.92
30.2	52.23	43.18	20.605	14.25	34.107	68.53	55.647	67.53
Juni 9.1	51.78	41.17	20.538	14.80	34.000	67.75	55.359	65.67
19.1	51.46	38.83	20.502	15.37	33.936	66.76	55.120	63.43
29.1	51.27	36.23	20.498	15.95	33.916	65.59	54.935	60.83
Juli 9.1	51.23	33.45	20.526	16.51	33.942	64.28	54.811	57.96
19.0	51.33	30.54	20.586	17.03	34.012	62.85	54.750	54.90
29.0	51.57	27.58	20.677	17.51	34.124	61.33	54.754	51.73
Aug. 8.0	51.95	24.62	20.796	17.90	34.277	59.75	54.826	48.56
17.9	52.45	21.75	20.944	18.18	34.470	58.14	54.966	45.49
27.9	53.08	19.01	21.117	18.32	34.699	56.52	55.172	42.62
Sept. 6.9	53.82	16.46	21.316	18.29	34.962	54.90	55.441	40.06
16.9	54.65	14.15	21.539	18.08	35.257	53.32	55.769	37.90
26.8	55.57	12.14	21.784	17.65	35.582	51.80	56.149	36.24
Okt. 6.8	56.56	10.46	22.048	17.02	35.933	50.36	56.573	35.14
16.8	57.61	9.17	22.330	16.17	36.307	49.05	57.032	34.66
26.8	58.69	8.31	22.626	15.13	36.698	47.89	57.511	34.84
Nov. 5.7	59.79	7.90	22.931	13.92	37.102	46.92	58.000	35.67
15.7	60.88	7.97	23.239	12.59	37.509	46.17	58.480	37.15
25.7	61.93	8.54	23.542	11.17	37.911	45.69	58.939	39.23
Dez. 5.6	62.92	9.60	23.833	9.73	38.298	45.50	59.359	41.83
15.6	63.82	11.14	24.103	8.32	38.657	45.61	59.726	44.88
25.6	64.60	13.11	24.342	7.00	38.978	46.04	60.029	48.26
35.6	65.23	15.45	24.543	5.80	39.250	46.77	60.256	51.87
Mittl. Ort sec $\delta$ , tg $\delta$	54.61 4.132	39.58 +4.009	20.471 1.014	25.89 +0.166	34.244 1.377	70.73 +0.947	56.156 1.957	40.38 -1.682

Mittlere Zeit Greenw.	316) Br. 1197		318) $\eta$ Chamael.		317) $\sigma$ Ursae maj.		320) Gr. 1450	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	8 <sup>h</sup> 21 <sup>m</sup>	-3° 39'	8 <sup>h</sup> 22 <sup>m</sup>	-77° 14'	8 <sup>h</sup> 23 <sup>m</sup>	+6° 58'	8 <sup>h</sup> 27 <sup>m</sup>	+38° 16'
1923								
Jan. 0.6	50.006 <sup>171</sup>	23.83 <sup>189</sup>	65.77 <sup>27</sup>	10.73 <sup>367</sup>	54.56 <sup>33</sup>	21.08 <sup>177</sup>	56.093 <sup>232</sup>	39.41 <sup>53</sup>
10.5	50.177 <sup>125</sup>	25.72 <sup>174</sup>	66.04 <sup>8</sup>	14.40 <sup>377</sup>	54.89 <sup>23</sup>	22.85 <sup>205</sup>	56.325 <sup>174</sup>	39.94 <sup>79</sup>
20.5	50.302 <sup>75</sup>	27.46 <sup>155</sup>	66.12 <sup>11</sup>	18.17 <sup>376</sup>	55.12 <sup>14</sup>	24.90 <sup>225</sup>	56.499 <sup>112</sup>	40.73 <sup>101</sup>
30.5	50.377 <sup>23</sup>	29.01 <sup>135</sup>	66.01 <sup>30</sup>	21.93 <sup>364</sup>	55.26 <sup>4</sup>	27.15 <sup>235</sup>	56.611 <sup>48</sup>	41.74 <sup>118</sup>
Feb. 9.5	50.400 <sup>24</sup>	30.36 <sup>111</sup>	65.71 <sup>46</sup>	25.57 <sup>344</sup>	55.30 <sup>5</sup>	29.50 <sup>236</sup>	56.659 <sup>15</sup>	42.92 <sup>129</sup>
19.4	50.376 <sup>68</sup>	31.47 <sup>86</sup>	65.25 <sup>62</sup>	29.01 <sup>316</sup>	55.25 <sup>15</sup>	31.86 <sup>226</sup>	56.644 <sup>73</sup>	44.21 <sup>132</sup>
März 1.4	50.308 <sup>106</sup>	32.33 <sup>64</sup>	64.63 <sup>74</sup>	32.17 <sup>280</sup>	55.10 <sup>22</sup>	34.12 <sup>207</sup>	56.571 <sup>123</sup>	45.53 <sup>129</sup>
11.4	50.202 <sup>135</sup>	32.97 <sup>41</sup>	63.89 <sup>86</sup>	34.97 <sup>240</sup>	54.88 <sup>29</sup>	36.19 <sup>180</sup>	56.448 <sup>163</sup>	46.82 <sup>121</sup>
21.4	50.067 <sup>155</sup>	33.38 <sup>18</sup>	63.03 <sup>93</sup>	37.37 <sup>193</sup>	54.59 <sup>34</sup>	37.99 <sup>145</sup>	56.285 <sup>193</sup>	48.03 <sup>105</sup>
31.3	49.912 <sup>167</sup>	33.56 <sup>2</sup>	62.10 <sup>99</sup>	39.30 <sup>145</sup>	54.25 <sup>37</sup>	39.44 <sup>107</sup>	56.092 <sup>209</sup>	49.08 <sup>87</sup>
Apr. 10.3	49.745 <sup>168</sup>	33.54 <sup>21</sup>	61.11 <sup>102</sup>	40.75 <sup>93</sup>	53.88 <sup>37</sup>	40.51 <sup>63</sup>	55.883 <sup>215</sup>	49.95 <sup>64</sup>
20.3	49.577 <sup>162</sup>	33.33 <sup>40</sup>	60.09 <sup>103</sup>	41.68 <sup>40</sup>	53.51 <sup>37</sup>	41.14 <sup>20</sup>	55.668 <sup>209</sup>	50.59 <sup>41</sup>
30.2	49.415 <sup>148</sup>	32.93 <sup>57</sup>	59.06 <sup>101</sup>	42.08 <sup>14</sup>	53.14 <sup>35</sup>	41.34 <sup>24</sup>	55.459 <sup>193</sup>	51.00 <sup>15</sup>
Mai 10.2	49.267 <sup>129</sup>	32.36 <sup>72</sup>	58.05 <sup>96</sup>	41.94 <sup>66</sup>	52.79 <sup>31</sup>	41.10 <sup>67</sup>	55.266 <sup>168</sup>	51.15 <sup>8</sup>
20.2	49.138 <sup>105</sup>	31.64 <sup>86</sup>	57.09 <sup>90</sup>	41.28 <sup>118</sup>	52.48 <sup>26</sup>	40.43 <sup>105</sup>	55.098 <sup>138</sup>	51.07 <sup>32</sup>
30.2	49.033 <sup>78</sup>	30.78 <sup>99</sup>	56.19 <sup>81</sup>	40.10 <sup>167</sup>	52.22 <sup>20</sup>	39.38 <sup>140</sup>	54.960 <sup>103</sup>	50.75 <sup>52</sup>
Juni 9.1	48.955 <sup>49</sup>	29.79 <sup>110</sup>	55.38 <sup>71</sup>	38.43 <sup>210</sup>	52.02 <sup>14</sup>	37.98 <sup>171</sup>	54.857 <sup>65</sup>	50.23 <sup>72</sup>
19.1	48.906 <sup>18</sup>	28.69 <sup>117</sup>	54.67 <sup>58</sup>	36.33 <sup>248</sup>	51.88 <sup>8</sup>	36.27 <sup>196</sup>	54.792 <sup>25</sup>	49.51 <sup>89</sup>
29.1	48.888 <sup>12</sup>	27.52 <sup>121</sup>	54.09 <sup>44</sup>	33.85 <sup>281</sup>	51.80 <sup>1</sup>	34.31 <sup>216</sup>	54.767 <sup>16</sup>	48.62 <sup>103</sup>
Juli 9.1	48.900 <sup>44</sup>	26.31 <sup>123</sup>	53.65 <sup>29</sup>	31.04 <sup>303</sup>	51.79 <sup>6</sup>	32.15 <sup>231</sup>	54.783 <sup>55</sup>	47.59 <sup>116</sup>
19.0	48.944 <sup>72</sup>	25.08 <sup>119</sup>	53.36 <sup>13</sup>	28.01 <sup>320</sup>	51.85 <sup>13</sup>	29.84 <sup>240</sup>	54.838 <sup>94</sup>	46.43 <sup>125</sup>
29.0	49.016 <sup>102</sup>	23.89 <sup>111</sup>	53.23 <sup>3</sup>	24.81 <sup>324</sup>	51.98 <sup>19</sup>	27.44 <sup>245</sup>	54.932 <sup>132</sup>	45.18 <sup>133</sup>
Aug. 8.0	49.118 <sup>131</sup>	22.78 <sup>98</sup>	53.26 <sup>21</sup>	21.57 <sup>319</sup>	52.17 <sup>26</sup>	24.99 <sup>246</sup>	55.064 <sup>168</sup>	43.85 <sup>140</sup>
17.9	49.249 <sup>157</sup>	21.80 <sup>81</sup>	53.47 <sup>37</sup>	18.38 <sup>302</sup>	52.43 <sup>31</sup>	22.53 <sup>240</sup>	55.232 <sup>202</sup>	42.45 <sup>144</sup>
27.9	49.406 <sup>184</sup>	20.99 <sup>59</sup>	53.84 <sup>53</sup>	15.36 <sup>276</sup>	52.74 <sup>36</sup>	20.13 <sup>230</sup>	55.434 <sup>234</sup>	41.01 <sup>148</sup>
Sept. 6.9	49.590 <sup>209</sup>	20.40 <sup>32</sup>	54.37 <sup>67</sup>	12.60 <sup>238</sup>	53.10 <sup>42</sup>	17.83 <sup>217</sup>	55.668 <sup>265</sup>	39.53 <sup>148</sup>
16.9	49.799 <sup>233</sup>	20.08 <sup>2</sup>	55.04 <sup>80</sup>	10.22 <sup>192</sup>	53.52 <sup>46</sup>	15.66 <sup>199</sup>	55.933 <sup>294</sup>	38.05 <sup>147</sup>
26.8	50.032 <sup>254</sup>	20.06 <sup>29</sup>	55.84 <sup>91</sup>	8.30 <sup>137</sup>	53.98 <sup>50</sup>	13.67 <sup>177</sup>	56.227 <sup>319</sup>	36.58 <sup>144</sup>
Okt. 6.8	50.286 <sup>273</sup>	20.35 <sup>63</sup>	56.75 <sup>98</sup>	6.93 <sup>75</sup>	54.48 <sup>53</sup>	11.90 <sup>150</sup>	56.546 <sup>344</sup>	35.14 <sup>137</sup>
16.8	50.559 <sup>288</sup>	20.98 <sup>95</sup>	57.73 <sup>102</sup>	6.18 <sup>11</sup>	55.01 <sup>56</sup>	10.40 <sup>118</sup>	56.890 <sup>362</sup>	33.77 <sup>127</sup>
26.8	50.847 <sup>297</sup>	21.93 <sup>125</sup>	58.75 <sup>103</sup>	6.07 <sup>55</sup>	55.57 <sup>58</sup>	9.22 <sup>84</sup>	57.252 <sup>375</sup>	32.50 <sup>114</sup>
Nov. 5.7	51.144 <sup>302</sup>	23.18 <sup>152</sup>	59.78 <sup>100</sup>	6.62 <sup>122</sup>	56.15 <sup>58</sup>	8.38 <sup>46</sup>	57.627 <sup>382</sup>	31.36 <sup>96</sup>
15.7	51.446 <sup>298</sup>	24.70 <sup>173</sup>	60.78 <sup>93</sup>	7.84 <sup>184</sup>	56.73 <sup>57</sup>	7.92 <sup>5</sup>	58.009 <sup>380</sup>	30.40 <sup>74</sup>
25.7	51.744 <sup>287</sup>	26.43 <sup>188</sup>	61.71 <sup>84</sup>	9.68 <sup>239</sup>	57.30 <sup>55</sup>	7.87 <sup>38</sup>	58.389 <sup>367</sup>	29.66 <sup>50</sup>
Dez. 5.6	52.031 <sup>266</sup>	28.31 <sup>106</sup>	62.55 <sup>70</sup>	12.07 <sup>288</sup>	57.85 <sup>50</sup>	8.25 <sup>80</sup>	58.756 <sup>344</sup>	29.16 <sup>21</sup>
15.6	52.297 <sup>236</sup>	30.27 <sup>199</sup>	63.25 <sup>55</sup>	14.95 <sup>326</sup>	58.35 <sup>46</sup>	9.05 <sup>121</sup>	59.100 <sup>311</sup>	28.95 <sup>8</sup>
25.6	52.533 <sup>199</sup>	32.26 <sup>193</sup>	63.80 <sup>38</sup>	18.21 <sup>353</sup>	58.81 <sup>38</sup>	10.26 <sup>159</sup>	59.411 <sup>266</sup>	29.03 <sup>37</sup>
35.6	52.732	34.19	64.18	21.74	59.19	11.85	59.677	29.40
Mittl. Ort	48.843	15.40	58.55	11.81	52.89	37.48	54.979	53.94
sec $\delta$ , tg $\delta$	1.002	-0.064	4.527	-4.415	2.061	+1.802	1.274	+0.789

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	321) $\eta$ Cancri		326) $\delta$ Cancri		327) $\alpha$ Pyxidis		328) $\epsilon$ Cancri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	8 <sup>h</sup> 28 <sup>m</sup>	+20° 41'	8 <sup>h</sup> 40 <sup>m</sup>	+18° 25'	8 <sup>h</sup> 40 <sup>m</sup>	-32° 54'	8 <sup>h</sup> 42 <sup>m</sup>	+29° 2'
Jan. 0.6	16.588 <sup>200</sup>	61.36 <sup>50</sup>	19.723 <sup>209</sup>	65.92 <sup>70</sup>	31.439 <sup>184</sup>	31.56 <sup>317</sup>	3.512 <sup>227</sup>	19.79 <sup>9</sup>
10.6	16.788 <sup>151</sup>	60.86 <sup>29</sup>	19.932 <sup>160</sup>	65.22 <sup>47</sup>	31.623 <sup>130</sup>	34.73 <sup>316</sup>	3.739 <sup>175</sup>	19.70 <sup>18</sup>
20.5	16.939 <sup>97</sup>	60.57 <sup>7</sup>	20.092 <sup>108</sup>	64.75 <sup>26</sup>	31.753 <sup>74</sup>	37.89 <sup>305</sup>	3.914 <sup>119</sup>	19.88 <sup>41</sup>
30.5	17.036 <sup>43</sup>	60.50 <sup>12</sup>	20.200 <sup>55</sup>	64.49 <sup>4</sup>	31.827 <sup>17</sup>	40.94 <sup>287</sup>	4.033 <sup>61</sup>	20.29 <sup>63</sup>
Feb. 9.5	17.079 <sup>10</sup>	60.62 <sup>30</sup>	20.255 <sup>1</sup>	64.45 <sup>16</sup>	31.844 <sup>37</sup>	43.81 <sup>262</sup>	4.094 <sup>4</sup>	20.92 <sup>78</sup>
19.4	17.069 <sup>59</sup>	60.92 <sup>42</sup>	20.256 <sup>46</sup>	64.61 <sup>30</sup>	31.807 <sup>87</sup>	46.43 <sup>233</sup>	4.098 <sup>49</sup>	21.70 <sup>89</sup>
März 1.4	17.010 <sup>101</sup>	61.34 <sup>52</sup>	20.210 <sup>90</sup>	64.91 <sup>43</sup>	31.720 <sup>129</sup>	48.76 <sup>198</sup>	4.049 <sup>96</sup>	22.59 <sup>94</sup>
11.4	16.909 <sup>134</sup>	61.86 <sup>56</sup>	20.120 <sup>124</sup>	65.34 <sup>50</sup>	31.591 <sup>165</sup>	50.74 <sup>161</sup>	3.953 <sup>133</sup>	23.53 <sup>94</sup>
21.4	16.775 <sup>158</sup>	62.42 <sup>58</sup>	19.996 <sup>149</sup>	65.84 <sup>54</sup>	31.426 <sup>190</sup>	52.35 <sup>122</sup>	3.820 <sup>162</sup>	24.47 <sup>89</sup>
31.3	16.617 <sup>172</sup>	63.00 <sup>56</sup>	19.847 <sup>164</sup>	66.38 <sup>55</sup>	31.236 <sup>205</sup>	53.57 <sup>81</sup>	3.658 <sup>178</sup>	25.36 <sup>80</sup>
Apr. 10.3	16.445 <sup>175</sup>	63.56 <sup>51</sup>	19.683 <sup>169</sup>	66.93 <sup>53</sup>	31.031 <sup>213</sup>	54.38 <sup>40</sup>	3.480 <sup>186</sup>	26.16 <sup>67</sup>
20.3	16.270 <sup>169</sup>	64.07 <sup>46</sup>	19.514 <sup>165</sup>	67.46 <sup>49</sup>	30.818 <sup>210</sup>	54.78 <sup>2</sup>	3.294 <sup>182</sup>	26.83 <sup>53</sup>
30.3	16.101 <sup>155</sup>	64.53 <sup>38</sup>	19.349 <sup>154</sup>	67.95 <sup>43</sup>	30.608 <sup>201</sup>	54.76 <sup>42</sup>	3.112 <sup>170</sup>	27.36 <sup>36</sup>
Mai 10.2	15.946 <sup>135</sup>	64.91 <sup>30</sup>	19.195 <sup>136</sup>	68.38 <sup>38</sup>	30.407 <sup>185</sup>	54.34 <sup>81</sup>	2.942 <sup>151</sup>	27.72 <sup>21</sup>
20.2	15.811 <sup>109</sup>	65.21 <sup>22</sup>	19.059 <sup>113</sup>	68.76 <sup>31</sup>	30.222 <sup>164</sup>	53.53 <sup>118</sup>	2.791 <sup>125</sup>	27.93 <sup>4</sup>
30.2	15.702 <sup>80</sup>	65.43 <sup>15</sup>	18.946 <sup>85</sup>	69.07 <sup>25</sup>	30.058 <sup>137</sup>	52.35 <sup>153</sup>	2.666 <sup>97</sup>	27.97 <sup>12</sup>
Juni 9.1	15.622 <sup>48</sup>	65.58 <sup>7</sup>	18.861 <sup>56</sup>	69.32 <sup>18</sup>	29.921 <sup>108</sup>	50.82 <sup>183</sup>	2.569 <sup>64</sup>	27.85 <sup>26</sup>
19.1	15.574 <sup>16</sup>	65.65 <sup>0</sup>	18.805 <sup>24</sup>	69.50 <sup>11</sup>	29.813 <sup>76</sup>	48.99 <sup>208</sup>	2.505 <sup>30</sup>	27.59 <sup>40</sup>
29.1	15.558 <sup>18</sup>	65.65 <sup>7</sup>	18.781 <sup>6</sup>	69.61 <sup>4</sup>	29.737 <sup>42</sup>	46.91 <sup>228</sup>	2.475 <sup>4</sup>	27.19 <sup>52</sup>
Juli 9.1	15.576 <sup>50</sup>	65.58 <sup>15</sup>	18.787 <sup>38</sup>	69.65 <sup>4</sup>	29.695 <sup>7</sup>	44.63 <sup>242</sup>	2.479 <sup>39</sup>	26.67 <sup>64</sup>
19.0	15.626 <sup>83</sup>	65.43 <sup>23</sup>	18.825 <sup>69</sup>	69.61 <sup>12</sup>	29.688 <sup>30</sup>	42.21 <sup>248</sup>	2.518 <sup>73</sup>	26.03 <sup>74</sup>
29.0	15.709 <sup>113</sup>	65.20 <sup>32</sup>	18.894 <sup>99</sup>	69.49 <sup>22</sup>	29.718 <sup>66</sup>	39.73 <sup>246</sup>	2.591 <sup>105</sup>	25.29 <sup>84</sup>
Aug. 8.0	15.822 <sup>142</sup>	64.88 <sup>41</sup>	18.993 <sup>129</sup>	69.27 <sup>32</sup>	29.784 <sup>103</sup>	37.27 <sup>236</sup>	2.696 <sup>138</sup>	24.45 <sup>95</sup>
18.0	15.964 <sup>171</sup>	64.47 <sup>52</sup>	19.122 <sup>156</sup>	68.95 <sup>45</sup>	29.887 <sup>140</sup>	34.91 <sup>217</sup>	2.834 <sup>169</sup>	23.50 <sup>103</sup>
27.9	16.135 <sup>198</sup>	63.95 <sup>64</sup>	19.278 <sup>184</sup>	68.50 <sup>58</sup>	30.027 <sup>175</sup>	32.74 <sup>190</sup>	3.003 <sup>198</sup>	22.47 <sup>112</sup>
Sept. 6.9	16.333 <sup>224</sup>	63.31 <sup>77</sup>	19.462 <sup>212</sup>	67.92 <sup>73</sup>	30.202 <sup>211</sup>	30.84 <sup>155</sup>	3.201 <sup>227</sup>	21.35 <sup>120</sup>
16.9	16.557 <sup>249</sup>	62.54 <sup>89</sup>	19.674 <sup>237</sup>	67.19 <sup>87</sup>	30.413 <sup>243</sup>	29.29 <sup>112</sup>	3.428 <sup>255</sup>	20.15 <sup>127</sup>
26.8	16.806 <sup>272</sup>	61.65 <sup>100</sup>	19.911 <sup>260</sup>	66.32 <sup>101</sup>	30.656 <sup>273</sup>	28.17 <sup>64</sup>	3.683 <sup>281</sup>	18.88 <sup>132</sup>
Okt. 6.8	17.078 <sup>292</sup>	60.65 <sup>111</sup>	20.171 <sup>284</sup>	65.31 <sup>115</sup>	30.929 <sup>298</sup>	27.53 <sup>111</sup>	3.964 <sup>305</sup>	17.56 <sup>136</sup>
16.8	17.370 <sup>309</sup>	59.54 <sup>119</sup>	20.455 <sup>302</sup>	64.16 <sup>124</sup>	31.227 <sup>319</sup>	27.42 <sup>44</sup>	4.269 <sup>324</sup>	16.20 <sup>135</sup>
26.8	17.679 <sup>321</sup>	58.35 <sup>125</sup>	20.757 <sup>315</sup>	62.92 <sup>133</sup>	31.546 <sup>331</sup>	27.86 <sup>98</sup>	4.593 <sup>340</sup>	14.85 <sup>132</sup>
Nov. 5.7	18.000 <sup>327</sup>	57.10 <sup>125</sup>	21.072 <sup>324</sup>	61.59 <sup>136</sup>	31.877 <sup>336</sup>	28.84 <sup>151</sup>	4.933 <sup>349</sup>	13.53 <sup>124</sup>
15.7	18.327 <sup>326</sup>	55.85 <sup>121</sup>	21.396 <sup>325</sup>	60.23 <sup>135</sup>	32.213 <sup>332</sup>	30.35 <sup>138</sup>	5.282 <sup>349</sup>	12.29 <sup>111</sup>
25.7	18.653 <sup>315</sup>	54.64 <sup>113</sup>	21.721 <sup>316</sup>	58.88 <sup>128</sup>	32.545 <sup>317</sup>	32.33 <sup>240</sup>	5.631 <sup>342</sup>	11.18 <sup>94</sup>
Dez. 5.7	18.968 <sup>297</sup>	53.51 <sup>99</sup>	22.037 <sup>299</sup>	57.60 <sup>117</sup>	32.862 <sup>292</sup>	34.73 <sup>273</sup>	5.973 <sup>323</sup>	10.24 <sup>73</sup>
15.6	19.265 <sup>267</sup>	52.52 <sup>83</sup>	22.336 <sup>273</sup>	56.43 <sup>101</sup>	33.154 <sup>258</sup>	37.46 <sup>297</sup>	6.296 <sup>294</sup>	9.51 <sup>50</sup>
25.6	19.532 <sup>229</sup>	51.69 <sup>62</sup>	22.609 <sup>236</sup>	55.42 <sup>81</sup>	33.412 <sup>214</sup>	40.43 <sup>311</sup>	6.590 <sup>257</sup>	9.01 <sup>23</sup>
35.6	19.761	51.07	22.845	54.61	33.626	43.54	6.847	8.78
Mittl. Ort sec $\delta$ , tg $\delta$	15.548 1.069	73.54 +0.378	18.728 1.054	77.70 +0.333	29.846 1.191	29.04 -0.647	2.520 1.144	33.27 +0.555



Mittlere Zeit Greenw.	330) $\delta$ Argus		334) $\zeta$ Hydrae		336) $c$ Carinae		335) $\iota$ Ursae maj.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	8 <sup>h</sup> 42 <sup>m</sup>	-54° 25'	8 <sup>h</sup> 51 <sup>m</sup>	+6° 14'	8 <sup>h</sup> 53 <sup>m</sup>	-60° 20'	8 <sup>h</sup> 53 <sup>m</sup>	+48° 20'
Jan. 0.6	37.198 <sup>207</sup>	32.71 <sup>363</sup>	20.515 <sup>204</sup>	12.71 <sup>143</sup>	21.27 <sup>24</sup>	56.77 <sup>364</sup>	57.741 <sup>294</sup>	25.66 <sup>91</sup>
10.6	37.405 <sup>133</sup>	36.34 <sup>371</sup>	20.719 <sup>160</sup>	11.28 <sup>124</sup>	21.51 <sup>16</sup>	60.41 <sup>376</sup>	58.035 <sup>230</sup>	26.57 <sup>125</sup>
20.5	37.538 <sup>56</sup>	40.05 <sup>368</sup>	20.879 <sup>110</sup>	10.04 <sup>103</sup>	21.67 <sup>7</sup>	64.17 <sup>378</sup>	58.265 <sup>160</sup>	27.82 <sup>151</sup>
30.5	37.594 <sup>20</sup>	43.73 <sup>354</sup>	20.989 <sup>59</sup>	9.01 <sup>81</sup>	21.74 <sup>2</sup>	67.95 <sup>368</sup>	58.425 <sup>86</sup>	29.33 <sup>171</sup>
Feb. 9.5	37.574 <sup>93</sup>	47.27 <sup>333</sup>	21.048 <sup>9</sup>	8.20 <sup>59</sup>	21.72 <sup>10</sup>	71.63 <sup>350</sup>	58.511 <sup>13</sup>	31.04 <sup>184</sup>
19.5	37.481 <sup>159</sup>	50.60 <sup>304</sup>	21.057 <sup>37</sup>	7.61 <sup>38</sup>	21.62 <sup>18</sup>	75.13 <sup>324</sup>	58.524 <sup>58</sup>	32.88 <sup>187</sup>
März 1.4	37.322 <sup>217</sup>	53.64 <sup>269</sup>	21.020 <sup>79</sup>	7.23 <sup>18</sup>	21.44 <sup>25</sup>	78.37 <sup>291</sup>	58.466 <sup>119</sup>	34.75 <sup>183</sup>
11.4	37.105 <sup>264</sup>	56.33 <sup>227</sup>	20.941 <sup>111</sup>	7.05 <sup>1</sup>	21.19 <sup>30</sup>	81.28 <sup>251</sup>	58.347 <sup>173</sup>	36.58 <sup>169</sup>
21.4	36.841 <sup>299</sup>	58.60 <sup>183</sup>	20.830 <sup>137</sup>	7.04 <sup>13</sup>	20.89 <sup>35</sup>	83.79 <sup>207</sup>	58.174 <sup>212</sup>	38.27 <sup>149</sup>
31.3	36.542 <sup>324</sup>	60.43 <sup>134</sup>	20.693 <sup>152</sup>	7.17 <sup>26</sup>	20.54 <sup>38</sup>	85.86 <sup>160</sup>	57.962 <sup>240</sup>	39.76 <sup>124</sup>
Apr. 10.3	36.218 <sup>337</sup>	61.77 <sup>85</sup>	20.541 <sup>158</sup>	7.43 <sup>36</sup>	20.16 <sup>40</sup>	87.46 <sup>109</sup>	57.722 <sup>253</sup>	41.00 <sup>93</sup>
20.3	35.881 <sup>338</sup>	62.62 <sup>34</sup>	20.383 <sup>157</sup>	7.79 <sup>44</sup>	19.76 <sup>41</sup>	88.55 <sup>57</sup>	57.469 <sup>254</sup>	41.93 <sup>60</sup>
30.3	35.543 <sup>330</sup>	62.96 <sup>17</sup>	20.226 <sup>148</sup>	8.23 <sup>52</sup>	19.35 <sup>40</sup>	89.12 <sup>6</sup>	57.215 <sup>243</sup>	42.53 <sup>26</sup>
Mai 10.2	35.213 <sup>313</sup>	62.79 <sup>67</sup>	20.078 <sup>132</sup>	8.75 <sup>57</sup>	18.95 <sup>38</sup>	89.18 <sup>47</sup>	56.972 <sup>222</sup>	42.79 <sup>9</sup>
20.2	34.900 <sup>287</sup>	62.12 <sup>115</sup>	19.946 <sup>112</sup>	9.32 <sup>61</sup>	18.57 <sup>36</sup>	88.71 <sup>98</sup>	56.750 <sup>192</sup>	42.70 <sup>42</sup>
30.2	34.613 <sup>254</sup>	60.97 <sup>161</sup>	19.834 <sup>88</sup>	9.93 <sup>65</sup>	18.21 <sup>33</sup>	87.73 <sup>146</sup>	56.558 <sup>156</sup>	42.28 <sup>73</sup>
Juni 9.2	34.359 <sup>215</sup>	59.36 <sup>202</sup>	19.746 <sup>62</sup>	10.58 <sup>67</sup>	17.88 <sup>28</sup>	86.27 <sup>190</sup>	56.402 <sup>116</sup>	41.55 <sup>102</sup>
19.1	34.144 <sup>171</sup>	57.34 <sup>238</sup>	19.684 <sup>35</sup>	11.25 <sup>68</sup>	17.60 <sup>24</sup>	84.37 <sup>230</sup>	56.286 <sup>73</sup>	40.53 <sup>128</sup>
29.1	33.973 <sup>123</sup>	54.96 <sup>267</sup>	19.649 <sup>6</sup>	11.93 <sup>66</sup>	17.36 <sup>18</sup>	82.07 <sup>263</sup>	56.213 <sup>27</sup>	39.25 <sup>149</sup>
Juli 9.1	33.850 <sup>70</sup>	52.29 <sup>289</sup>	19.643 <sup>23</sup>	12.59 <sup>63</sup>	17.18 <sup>12</sup>	79.44 <sup>288</sup>	56.186 <sup>19</sup>	37.76 <sup>168</sup>
19.0	33.780 <sup>15</sup>	49.40 <sup>303</sup>	19.666 <sup>52</sup>	13.22 <sup>57</sup>	17.06 <sup>5</sup>	76.56 <sup>306</sup>	56.205 <sup>65</sup>	36.08 <sup>183</sup>
29.0	33.765 <sup>42</sup>	46.37 <sup>306</sup>	19.718 <sup>80</sup>	13.79 <sup>48</sup>	17.01 <sup>1</sup>	73.50 <sup>313</sup>	56.270 <sup>109</sup>	34.25 <sup>194</sup>
Aug. 8.0	33.807 <sup>100</sup>	43.31 <sup>300</sup>	19.798 <sup>109</sup>	14.27 <sup>37</sup>	17.02 <sup>8</sup>	70.37 <sup>311</sup>	56.379 <sup>153</sup>	32.31 <sup>203</sup>
18.0	33.907 <sup>158</sup>	40.31 <sup>284</sup>	19.907 <sup>136</sup>	14.64 <sup>21</sup>	17.10 <sup>16</sup>	67.26 <sup>299</sup>	56.532 <sup>195</sup>	30.28 <sup>207</sup>
27.9	34.065 <sup>215</sup>	37.47 <sup>257</sup>	20.043 <sup>163</sup>	14.85 <sup>3</sup>	17.26 <sup>22</sup>	64.27 <sup>274</sup>	56.727 <sup>236</sup>	28.21 <sup>208</sup>
Sept. 6.9	34.280 <sup>269</sup>	34.90 <sup>221</sup>	20.206 <sup>191</sup>	14.88 <sup>18</sup>	17.48 <sup>29</sup>	61.53 <sup>241</sup>	56.963 <sup>276</sup>	26.13 <sup>206</sup>
16.9	34.549 <sup>320</sup>	32.69 <sup>175</sup>	20.397 <sup>216</sup>	14.70 <sup>40</sup>	17.77 <sup>35</sup>	59.12 <sup>197</sup>	57.239 <sup>313</sup>	24.07 <sup>201</sup>
26.9	34.869 <sup>363</sup>	30.94 <sup>121</sup>	20.613 <sup>242</sup>	14.30 <sup>65</sup>	18.12 <sup>40</sup>	57.15 <sup>145</sup>	57.552 <sup>348</sup>	22.06 <sup>191</sup>
Okt. 6.8	35.232 <sup>399</sup>	29.73 <sup>62</sup>	20.855 <sup>265</sup>	13.65 <sup>90</sup>	18.52 <sup>45</sup>	55.70 <sup>86</sup>	57.900 <sup>379</sup>	20.15 <sup>177</sup>
16.8	35.631 <sup>426</sup>	29.11 <sup>1</sup>	21.120 <sup>284</sup>	12.75 <sup>112</sup>	18.97 <sup>49</sup>	54.84 <sup>22</sup>	58.279 <sup>406</sup>	18.38 <sup>160</sup>
26.8	36.057 <sup>440</sup>	29.12 <sup>67</sup>	21.404 <sup>300</sup>	11.63 <sup>133</sup>	19.46 <sup>50</sup>	54.62 <sup>44</sup>	58.685 <sup>427</sup>	16.78 <sup>136</sup>
Nov. 5.7	36.497 <sup>443</sup>	29.79 <sup>129</sup>	21.704 <sup>309</sup>	10.30 <sup>150</sup>	19.96 <sup>51</sup>	55.06 <sup>109</sup>	59.112 <sup>439</sup>	15.42 <sup>109</sup>
15.7	36.940 <sup>430</sup>	31.08 <sup>190</sup>	22.013 <sup>311</sup>	8.80 <sup>161</sup>	20.47 <sup>50</sup>	56.15 <sup>172</sup>	59.551 <sup>442</sup>	14.33 <sup>78</sup>
25.7	37.370 <sup>405</sup>	32.98 <sup>244</sup>	22.324 <sup>305</sup>	7.19 <sup>168</sup>	20.97 <sup>46</sup>	57.87 <sup>229</sup>	59.993 <sup>434</sup>	13.55 <sup>43</sup>
Dez. 5.7	37.775 <sup>365</sup>	35.42 <sup>289</sup>	22.629 <sup>290</sup>	5.51 <sup>168</sup>	21.43 <sup>42</sup>	60.16 <sup>279</sup>	60.427 <sup>412</sup>	13.12 <sup>5</sup>
15.6	38.140 <sup>312</sup>	38.31 <sup>326</sup>	22.919 <sup>264</sup>	3.83 <sup>161</sup>	21.85 <sup>37</sup>	62.95 <sup>320</sup>	60.839 <sup>379</sup>	13.07 <sup>33</sup>
25.6	38.452 <sup>249</sup>	41.57 <sup>351</sup>	23.183 <sup>231</sup>	2.22 <sup>151</sup>	22.22 <sup>29</sup>	66.15 <sup>349</sup>	61.218 <sup>332</sup>	13.40 <sup>70</sup>
35.6	38.701	45.08	23.414	0.71	22.51	69.64	61.550	14.10
Mittl. Ort sec $\delta$ , tg $\delta$	34.659 1.719	33.59 -1.398	19.513 1.006	22.12 +0.109	18.25 2.022	59.39 -1.757	56.672 1.504	41.97 +1.124

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	337) α Cancri		339) 10 Ursae maj.		341) x Ursae maj.		343) α Volantis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	8 <sup>h</sup> 54 <sup>m</sup>	+12 <sup>o</sup> 9'	8 <sup>h</sup> 55 <sup>m</sup>	+42 <sup>o</sup> 4'	8 <sup>h</sup> 58 <sup>m</sup>	+47 <sup>o</sup> 27'	9 <sup>h</sup> 1 <sup>m</sup>	-66 <sup>o</sup> 5'
Jan. 0.6	17.658 <sup>214</sup>	13.56 <sup>111</sup>	39.922 <sup>272</sup>	63.38 <sup>56</sup>	23.651 <sup>296</sup>	27.19 <sup>84</sup>	17.82 <sup>29</sup>	14.81 <sup>363</sup>
10.6	17.872 <sup>167</sup>	12.45 <sup>90</sup>	40.194 <sup>214</sup>	63.94 <sup>88</sup>	23.947 <sup>235</sup>	28.03 <sup>117</sup>	18.11 <sup>19</sup>	18.44 <sup>378</sup>
20.5	18.039 <sup>118</sup>	11.55 <sup>68</sup>	40.408 <sup>151</sup>	64.82 <sup>116</sup>	24.182 <sup>165</sup>	29.20 <sup>146</sup>	18.30 <sup>8</sup>	22.22 <sup>383</sup>
30.5	18.157 <sup>65</sup>	10.87 <sup>45</sup>	40.559 <sup>84</sup>	65.98 <sup>136</sup>	24.347 <sup>93</sup>	30.66 <sup>166</sup>	18.38 <sup>2</sup>	26.05 <sup>378</sup>
Feb. 9.5	18.222 <sup>15</sup>	10.42 <sup>23</sup>	40.643 <sup>17</sup>	67.34 <sup>152</sup>	24.440 <sup>20</sup>	32.32 <sup>180</sup>	18.36 <sup>13</sup>	29.83 <sup>363</sup>
19.5	18.237 <sup>34</sup>	10.19 <sup>4</sup>	40.660 <sup>46</sup>	68.86 <sup>158</sup>	24.460 <sup>48</sup>	34.12 <sup>185</sup>	18.23 <sup>22</sup>	33.46 <sup>339</sup>
März 1.4	18.203 <sup>76</sup>	10.15 <sup>12</sup>	40.614 <sup>103</sup>	70.44 <sup>157</sup>	24.412 <sup>111</sup>	35.97 <sup>182</sup>	18.01 <sup>29</sup>	36.85 <sup>308</sup>
11.4	18.127 <sup>110</sup>	10.27 <sup>25</sup>	40.511 <sup>149</sup>	72.01 <sup>150</sup>	24.301 <sup>164</sup>	37.79 <sup>179</sup>	17.72 <sup>36</sup>	39.93 <sup>271</sup>
21.4	18.017 <sup>136</sup>	10.52 <sup>36</sup>	40.362 <sup>185</sup>	73.51 <sup>134</sup>	24.137 <sup>203</sup>	39.49 <sup>151</sup>	17.36 <sup>43</sup>	42.64 <sup>228</sup>
31.3	17.881 <sup>151</sup>	10.88 <sup>43</sup>	40.177 <sup>210</sup>	74.85 <sup>115</sup>	23.934 <sup>230</sup>	41.00 <sup>127</sup>	16.93 <sup>46</sup>	44.92 <sup>181</sup>
Apr. 10.3	17.730 <sup>160</sup>	11.31 <sup>48</sup>	39.967 <sup>221</sup>	76.00 <sup>90</sup>	23.704 <sup>245</sup>	42.27 <sup>97</sup>	16.47 <sup>49</sup>	46.73 <sup>131</sup>
20.3	17.570 <sup>159</sup>	11.79 <sup>50</sup>	39.746 <sup>222</sup>	76.90 <sup>62</sup>	23.459 <sup>247</sup>	43.24 <sup>65</sup>	15.98 <sup>51</sup>	48.04 <sup>79</sup>
30.3	17.411 <sup>150</sup>	12.29 <sup>51</sup>	39.524 <sup>212</sup>	77.52 <sup>34</sup>	23.212 <sup>237</sup>	43.89 <sup>32</sup>	15.47 <sup>50</sup>	48.83 <sup>26</sup>
Mai 10.2	17.261 <sup>133</sup>	12.80 <sup>50</sup>	39.312 <sup>192</sup>	77.86 <sup>4</sup>	22.975 <sup>218</sup>	44.21 <sup>3</sup>	14.97 <sup>49</sup>	49.09 <sup>28</sup>
20.2	17.128 <sup>114</sup>	13.30 <sup>50</sup>	39.120 <sup>166</sup>	77.90 <sup>23</sup>	22.757 <sup>189</sup>	44.18 <sup>35</sup>	14.48 <sup>47</sup>	48.81 <sup>81</sup>
30.2	17.014 <sup>90</sup>	13.80 <sup>47</sup>	38.954 <sup>135</sup>	77.67 <sup>51</sup>	22.568 <sup>155</sup>	43.83 <sup>66</sup>	14.01 <sup>42</sup>	48.00 <sup>130</sup>
Juni 9.2	16.924 <sup>63</sup>	14.27 <sup>45</sup>	38.819 <sup>98</sup>	77.16 <sup>76</sup>	22.413 <sup>116</sup>	43.17 <sup>96</sup>	13.59 <sup>38</sup>	46.70 <sup>177</sup>
19.1	16.861 <sup>35</sup>	14.72 <sup>41</sup>	38.721 <sup>59</sup>	76.40 <sup>98</sup>	22.297 <sup>74</sup>	42.21 <sup>121</sup>	13.21 <sup>32</sup>	44.93 <sup>220</sup>
29.1	16.826 <sup>6</sup>	15.13 <sup>36</sup>	38.662 <sup>20</sup>	75.42 <sup>119</sup>	22.223 <sup>30</sup>	41.00 <sup>143</sup>	12.89 <sup>26</sup>	42.73 <sup>255</sup>
Juli 9.1	16.820 <sup>23</sup>	15.49 <sup>30</sup>	38.642 <sup>21</sup>	74.23 <sup>135</sup>	22.193 <sup>15</sup>	39.57 <sup>163</sup>	12.63 <sup>19</sup>	40.18 <sup>284</sup>
19.0	16.843 <sup>52</sup>	15.79 <sup>23</sup>	38.663 <sup>60</sup>	72.88 <sup>150</sup>	22.208 <sup>59</sup>	37.94 <sup>177</sup>	12.44 <sup>10</sup>	37.34 <sup>306</sup>
29.0	16.895 <sup>81</sup>	16.02 <sup>12</sup>	38.723 <sup>100</sup>	71.38 <sup>162</sup>	22.267 <sup>102</sup>	36.17 <sup>191</sup>	12.34 <sup>3</sup>	34.28 <sup>316</sup>
Aug. 8.0	16.976 <sup>110</sup>	16.14 <sup>1</sup>	38.823 <sup>139</sup>	69.76 <sup>171</sup>	22.369 <sup>146</sup>	34.26 <sup>199</sup>	12.31 <sup>7</sup>	31.12 <sup>317</sup>
18.0	17.086 <sup>137</sup>	16.15 <sup>13</sup>	38.962 <sup>177</sup>	68.05 <sup>178</sup>	22.515 <sup>187</sup>	32.27 <sup>204</sup>	12.38 <sup>15</sup>	27.95 <sup>308</sup>
27.9	17.223 <sup>166</sup>	16.02 <sup>30</sup>	39.139 <sup>212</sup>	66.27 <sup>182</sup>	22.702 <sup>228</sup>	30.23 <sup>208</sup>	12.53 <sup>24</sup>	24.87 <sup>287</sup>
Sept. 6.9	17.389 <sup>193</sup>	15.72 <sup>47</sup>	39.351 <sup>248</sup>	64.45 <sup>184</sup>	22.930 <sup>267</sup>	28.15 <sup>206</sup>	12.77 <sup>32</sup>	22.00 <sup>256</sup>
16.9	17.582 <sup>219</sup>	15.25 <sup>67</sup>	39.599 <sup>282</sup>	62.61 <sup>183</sup>	23.197 <sup>305</sup>	26.09 <sup>201</sup>	13.09 <sup>40</sup>	19.44 <sup>214</sup>
26.9	17.801 <sup>245</sup>	14.58 <sup>86</sup>	39.881 <sup>313</sup>	60.78 <sup>178</sup>	23.502 <sup>339</sup>	24.08 <sup>193</sup>	13.49 <sup>47</sup>	17.30 <sup>163</sup>
Okt. 6.8	18.046 <sup>267</sup>	13.72 <sup>106</sup>	40.194 <sup>343</sup>	59.00 <sup>171</sup>	23.841 <sup>371</sup>	22.15 <sup>181</sup>	13.96 <sup>54</sup>	15.67 <sup>106</sup>
16.8	18.313 <sup>290</sup>	12.66 <sup>123</sup>	40.537 <sup>368</sup>	57.29 <sup>157</sup>	24.212 <sup>399</sup>	20.34 <sup>163</sup>	14.50 <sup>57</sup>	14.61 <sup>42</sup>
26.8	18.603 <sup>305</sup>	11.43 <sup>137</sup>	40.905 <sup>387</sup>	55.72 <sup>142</sup>	24.611 <sup>420</sup>	18.71 <sup>142</sup>	15.07 <sup>59</sup>	14.19 <sup>24</sup>
Nov. 5.7	18.908 <sup>315</sup>	10.06 <sup>148</sup>	41.292 <sup>400</sup>	54.30 <sup>120</sup>	25.031 <sup>434</sup>	17.29 <sup>116</sup>	15.66 <sup>61</sup>	14.43 <sup>91</sup>
15.7	19.223 <sup>318</sup>	8.58 <sup>153</sup>	41.692 <sup>403</sup>	53.10 <sup>95</sup>	25.465 <sup>437</sup>	16.13 <sup>84</sup>	16.27 <sup>59</sup>	15.34 <sup>156</sup>
25.7	19.541 <sup>313</sup>	7.05 <sup>154</sup>	42.095 <sup>397</sup>	52.15 <sup>64</sup>	25.902 <sup>431</sup>	15.29 <sup>50</sup>	16.86 <sup>55</sup>	16.90 <sup>215</sup>
Dez. 5.7	19.854 <sup>297</sup>	5.51 <sup>148</sup>	42.492 <sup>378</sup>	51.51 <sup>33</sup>	26.333 <sup>410</sup>	14.79 <sup>14</sup>	17.41 <sup>50</sup>	19.05 <sup>267</sup>
15.6	20.151 <sup>273</sup>	4.03 <sup>136</sup>	42.870 <sup>348</sup>	51.18 <sup>2</sup>	26.743 <sup>378</sup>	14.65 <sup>25</sup>	17.91 <sup>44</sup>	21.72 <sup>312</sup>
25.6	20.424 <sup>240</sup>	2.67 <sup>122</sup>	43.218 <sup>305</sup>	51.20 <sup>38</sup>	27.121 <sup>333</sup>	14.90 <sup>63</sup>	18.35 <sup>34</sup>	24.84 <sup>346</sup>
35.6	20.664	1.45	43.523	51.58	27.454	15.53	18.69	28.30
Mittl. Ort sec δ, tg δ	16.699 1.023	24.06 +0.215	38.935 1.347	78.93 +0.903	22.626 1.479	43.49 +1.090	14.10 2.467	18.85 -2.255

Mittlere Zeit Greenw.	344) $\sigma^2$ Ursae maj.		345) $\lambda$ Argus		347) $\theta$ Hydrae		348) $\beta$ Argus	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	9 <sup>h</sup> 3 <sup>m</sup>	+67° 26'	9 <sup>h</sup> 5 <sup>m</sup>	-43° 7'	9 <sup>h</sup> 10 <sup>m</sup>	+2° 38'	9 <sup>h</sup> 12 <sup>m</sup>	-69° 23'
Jan. 0.6	40.01 <sub>47</sub>	36.58 <sub>175</sub>	11.570 <sub>221</sub>	14.80 <sub>339</sub>	22.541 <sub>218</sub>	15.51 <sub>168</sub>	25.97 <sub>34</sub>	54.05 <sub>355</sub>
10.6	40.48 <sub>37</sub>	38.33 <sub>212</sub>	11.791 <sub>162</sub>	18.19 <sub>346</sub>	22.759 <sub>175</sub>	13.83 <sub>151</sub>	26.31 <sub>23</sub>	57.60 <sub>376</sub>
20.5	40.85 <sub>26</sub>	40.45 <sub>241</sub>	11.953 <sub>100</sub>	21.65 <sub>343</sub>	22.934 <sub>127</sub>	12.32 <sub>131</sub>	26.54 <sub>12</sub>	61.36 <sub>384</sub>
30.5	41.11 <sub>14</sub>	42.86 <sub>260</sub>	12.053 <sub>37</sub>	25.08 <sub>332</sub>	23.061 <sub>77</sub>	11.01 <sub>108</sub>	26.66 <sub>1</sub>	65.20 <sub>381</sub>
Feb. 9.5	41.25 <sub>1</sub>	45.46 <sub>268</sub>	12.090 <sub>24</sub>	28.40 <sub>311</sub>	23.138 <sub>26</sub>	9.93 <sub>85</sub>	26.65 <sub>12</sub>	69.01 <sub>371</sub>
19.5	41.26 <sub>10</sub>	48.14 <sub>266</sub>	12.066 <sub>81</sub>	31.51 <sub>285</sub>	23.164 <sub>20</sub>	9.08 <sub>61</sub>	26.53 <sub>23</sub>	72.72 <sub>350</sub>
März 1.4	41.16 <sub>22</sub>	50.80 <sub>251</sub>	11.985 <sub>131</sub>	34.36 <sub>252</sub>	23.144 <sub>62</sub>	8.47 <sub>40</sub>	26.30 <sub>32</sub>	76.22 <sub>321</sub>
11.4	40.94 <sub>30</sub>	53.31 <sub>227</sub>	11.854 <sub>173</sub>	36.88 <sub>215</sub>	23.082 <sub>97</sub>	8.07 <sub>19</sub>	25.98 <sub>41</sub>	79.43 <sub>287</sub>
21.4	40.64 <sub>38</sub>	55.58 <sub>195</sub>	11.681 <sub>205</sub>	39.03 <sub>174</sub>	22.985 <sub>123</sub>	7.88 <sub>2</sub>	25.57 <sub>47</sub>	82.30 <sub>246</sub>
31.4	40.26 <sub>44</sub>	57.53 <sub>155</sub>	11.476 <sub>229</sub>	40.77 <sub>131</sub>	22.862 <sub>142</sub>	7.86 <sub>14</sub>	25.10 <sub>52</sub>	84.76 <sub>200</sub>
Apr. 10.3	39.82 <sub>46</sub>	59.08 <sub>111</sub>	11.247 <sub>241</sub>	42.08 <sub>86</sub>	22.720 <sub>151</sub>	8.00 <sub>28</sub>	24.58 <sub>56</sub>	86.76 <sub>152</sub>
20.3	39.36 <sub>48</sub>	60.19 <sub>62</sub>	11.006 <sub>246</sub>	42.94 <sub>40</sub>	22.569 <sub>152</sub>	8.28 <sub>40</sub>	24.02 <sub>59</sub>	88.28 <sub>100</sub>
30.3	38.88 <sub>47</sub>	60.81 <sub>13</sub>	10.760 <sub>242</sub>	43.34 <sub>6</sub>	22.417 <sub>146</sub>	8.68 <sub>50</sub>	23.43 <sub>58</sub>	89.28 <sub>47</sub>
Mai 10.2	38.41 <sub>43</sub>	60.94 <sub>36</sub>	10.518 <sub>230</sub>	43.28 <sub>52</sub>	22.271 <sub>134</sub>	9.18 <sub>59</sub>	22.85 <sub>58</sub>	89.75 <sub>8</sub>
20.2	37.98 <sub>40</sub>	60.58 <sub>82</sub>	10.288 <sub>213</sub>	42.76 <sub>95</sub>	22.137 <sub>117</sub>	9.77 <sub>66</sub>	22.27 <sub>55</sub>	89.67 <sub>60</sub>
30.2	37.58 <sub>34</sub>	59.76 <sub>126</sub>	10.075 <sub>189</sub>	41.81 <sub>137</sub>	22.020 <sub>96</sub>	10.43 <sub>72</sub>	21.72 <sub>52</sub>	89.07 <sub>113</sub>
Juni 9.2	37.24 <sub>28</sub>	58.50 <sub>166</sub>	9.886 <sub>161</sub>	40.44 <sub>174</sub>	21.924 <sub>74</sub>	11.15 <sub>77</sub>	21.20 <sub>46</sub>	87.94 <sub>161</sub>
19.1	36.96 <sub>20</sub>	56.84 <sub>200</sub>	9.725 <sub>129</sub>	38.70 <sub>208</sub>	21.850 <sub>48</sub>	11.92 <sub>79</sub>	20.74 <sub>41</sub>	86.33 <sub>206</sub>
29.1	36.76 <sub>12</sub>	54.84 <sub>229</sub>	9.596 <sub>93</sub>	36.62 <sub>236</sub>	21.802 <sub>21</sub>	12.71 <sub>79</sub>	20.33 <sub>34</sub>	84.27 <sub>244</sub>
Juli 9.1	36.64 <sub>4</sub>	52.55 <sub>253</sub>	9.503 <sub>56</sub>	34.26 <sub>256</sub>	21.781 <sub>5</sub>	13.50 <sub>77</sub>	19.99 <sub>25</sub>	81.83 <sub>277</sub>
19.1	36.60 <sub>4</sub>	50.02 <sub>270</sub>	9.447 <sub>15</sub>	31.70 <sub>270</sub>	21.786 <sub>33</sub>	14.27 <sub>73</sub>	19.74 <sub>17</sub>	79.06 <sub>300</sub>
29.0	36.64 <sub>13</sub>	47.32 <sub>281</sub>	9.432 <sub>28</sub>	29.00 <sub>274</sub>	21.819 <sub>60</sub>	15.00 <sub>64</sub>	19.57 <sub>6</sub>	76.06 <sub>315</sub>
Aug. 8.0	36.77 <sub>21</sub>	44.51 <sub>289</sub>	9.460 <sub>71</sub>	26.26 <sub>270</sub>	21.879 <sub>89</sub>	15.64 <sub>52</sub>	19.51 <sub>3</sub>	72.91 <sub>319</sub>
18.0	36.98 <sub>28</sub>	41.62 <sub>288</sub>	9.531 <sub>115</sub>	23.56 <sub>257</sub>	21.968 <sub>116</sub>	16.16 <sub>37</sub>	19.54 <sub>13</sub>	69.72 <sub>314</sub>
27.9	37.26 <sub>36</sub>	38.74 <sub>282</sub>	9.646 <sub>161</sub>	20.99 <sub>233</sub>	22.084 <sub>145</sub>	16.53 <sub>18</sub>	19.67 <sub>24</sub>	66.58 <sub>296</sub>
Sept. 6.9	37.62 <sub>43</sub>	35.92 <sub>272</sub>	9.807 <sub>204</sub>	18.66 <sub>201</sub>	22.229 <sub>173</sub>	16.71 <sub>5</sub>	19.91 <sub>34</sub>	63.62 <sub>268</sub>
16.9	38.05 <sub>50</sub>	33.20 <sub>255</sub>	10.011 <sub>246</sub>	16.65 <sub>159</sub>	22.402 <sub>201</sub>	16.66 <sub>29</sub>	20.25 <sub>43</sub>	60.94 <sub>230</sub>
26.9	38.55 <sub>56</sub>	30.65 <sub>233</sub>	10.257 <sub>285</sub>	15.06 <sub>111</sub>	22.603 <sub>228</sub>	16.37 <sub>56</sub>	20.68 <sub>52</sub>	58.64 <sub>181</sub>
Okt. 6.8	39.11 <sub>61</sub>	28.32 <sub>206</sub>	10.542 <sub>319</sub>	13.95 <sub>56</sub>	22.831 <sub>254</sub>	15.81 <sub>84</sub>	21.20 <sub>59</sub>	56.83 <sub>124</sub>
16.8	39.72 <sub>66</sub>	26.26 <sub>172</sub>	10.861 <sub>347</sub>	13.39 <sub>2</sub>	23.085 <sub>277</sub>	14.97 <sub>110</sub>	21.79 <sub>63</sub>	55.59 <sub>63</sub>
26.8	40.38 <sub>68</sub>	24.54 <sub>134</sub>	11.208 <sub>366</sub>	13.41 <sub>62</sub>	23.362 <sub>294</sub>	13.87 <sub>134</sub>	22.42 <sub>68</sub>	54.96 <sub>3</sub>
Nov. 5.8	41.06 <sub>72</sub>	23.20 <sub>92</sub>	11.574 <sub>375</sub>	14.03 <sub>121</sub>	23.656 <sub>308</sub>	12.53 <sub>156</sub>	23.10 <sub>68</sub>	54.99 <sub>71</sub>
15.7	41.78 <sub>71</sub>	22.28 <sub>45</sub>	11.949 <sub>375</sub>	15.24 <sub>177</sub>	23.964 <sub>312</sub>	10.97 <sub>171</sub>	23.78 <sub>68</sub>	55.70 <sub>136</sub>
25.7	42.49 <sub>70</sub>	21.83 <sub>4</sub>	12.324 <sub>361</sub>	17.01 <sub>227</sub>	24.276 <sub>309</sub>	9.26 <sub>182</sub>	24.46 <sub>64</sub>	57.06 <sub>197</sub>
Dez. 5.7	43.19 <sub>67</sub>	21.87 <sub>55</sub>	12.685 <sub>336</sub>	19.28 <sub>270</sub>	24.585 <sub>297</sub>	7.44 <sub>185</sub>	25.10 <sub>58</sub>	59.03 <sub>253</sub>
15.6	43.86 <sub>61</sub>	22.42 <sub>103</sub>	13.021 <sub>300</sub>	21.98 <sub>304</sub>	24.882 <sub>274</sub>	5.59 <sub>184</sub>	25.68 <sub>50</sub>	61.56 <sub>299</sub>
25.6	44.47 <sub>53</sub>	23.45 <sub>150</sub>	13.321 <sub>254</sub>	25.02 <sub>328</sub>	25.156 <sub>243</sub>	3.75 <sub>175</sub>	26.18 <sub>40</sub>	64.55 <sub>336</sub>
35.6	45.00	24.95	13.575	28.30	25.399	2.00	26.58	67.91
Mittl. Ort	38.44	54.89	9.706	15.91	21.583	23.67	21.70	59.52
sec $\delta$ , tg $\delta$	2.608	+2.408	1.370	-0.936	1.001	+0.046	2.842	-2.661



Mittlere Zeit Greenw.	350) 83 Cancri		352) 40 Lynceis		353) $\alpha$ Argus		354) $\alpha$ Hydrae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	9 <sup>h</sup> 14 <sup>m</sup>	+18° 1'	9 <sup>h</sup> 16 <sup>m</sup>	+34° 42'	9 <sup>h</sup> 19 <sup>m</sup>	-54° 40'	9 <sup>h</sup> 23 <sup>m</sup>	-8° 19'
Jan. 0.6	42.065 <sup>237</sup>	45.93 <sup>87</sup>	22.998 <sup>270</sup>	53.85 <sup>3</sup>	46.095 <sup>268</sup>	48.58 <sup>350</sup>	49.268 <sup>224</sup>	31.95 <sup>222</sup>
10.6	42.302 <sup>192</sup>	45.06 <sup>63</sup>	23.268 <sup>221</sup>	53.88 <sup>36</sup>	46.363 <sup>197</sup>	52.08 <sup>366</sup>	49.492 <sup>181</sup>	34.17 <sup>211</sup>
20.6	42.494 <sup>143</sup>	44.43 <sup>37</sup>	23.489 <sup>164</sup>	54.24 <sup>65</sup>	46.560 <sup>122</sup>	55.74 <sup>370</sup>	49.673 <sup>133</sup>	36.28 <sup>195</sup>
30.5	42.637 <sup>89</sup>	44.06 <sup>13</sup>	23.653 <sup>103</sup>	54.89 <sup>90</sup>	46.682 <sup>47</sup>	59.44 <sup>365</sup>	49.806 <sup>84</sup>	38.23 <sup>175</sup>
Feb. 9.5	42.726 <sup>37</sup>	43.93 <sup>11</sup>	23.756 <sup>43</sup>	55.79 <sup>111</sup>	46.729 <sup>28</sup>	63.09 <sup>350</sup>	49.890 <sup>34</sup>	39.98 <sup>152</sup>
19.5	42.763 <sup>13</sup>	44.04 <sup>29</sup>	23.799 <sup>15</sup>	56.90 <sup>125</sup>	46.701 <sup>98</sup>	66.59 <sup>328</sup>	49.924 <sup>13</sup>	41.50 <sup>126</sup>
März 1.5	42.750 <sup>59</sup>	44.33 <sup>44</sup>	23.784 <sup>68</sup>	58.15 <sup>131</sup>	46.603 <sup>160</sup>	69.87 <sup>298</sup>	49.911 <sup>55</sup>	42.76 <sup>101</sup>
11.4	42.691 <sup>97</sup>	44.77 <sup>56</sup>	23.716 <sup>112</sup>	59.46 <sup>132</sup>	46.443 <sup>213</sup>	72.85 <sup>262</sup>	49.856 <sup>90</sup>	43.77 <sup>75</sup>
21.4	42.594 <sup>125</sup>	45.33 <sup>63</sup>	23.604 <sup>148</sup>	60.78 <sup>126</sup>	46.230 <sup>255</sup>	75.47 <sup>221</sup>	49.766 <sup>118</sup>	44.52 <sup>50</sup>
31.4	42.469 <sup>146</sup>	45.96 <sup>65</sup>	23.456 <sup>173</sup>	62.04 <sup>114</sup>	45.975 <sup>189</sup>	77.68 <sup>178</sup>	49.648 <sup>137</sup>	45.02 <sup>25</sup>
Apr. 10.3	42.323 <sup>158</sup>	46.61 <sup>65</sup>	23.283 <sup>186</sup>	63.18 <sup>97</sup>	45.686 <sup>309</sup>	79.46 <sup>129</sup>	49.511 <sup>149</sup>	45.27 <sup>2</sup>
20.3	42.165 <sup>159</sup>	47.26 <sup>61</sup>	23.097 <sup>191</sup>	64.15 <sup>78</sup>	45.377 <sup>321</sup>	80.75 <sup>81</sup>	49.362 <sup>152</sup>	45.29 <sup>19</sup>
30.3	42.006 <sup>153</sup>	47.87 <sup>57</sup>	22.906 <sup>185</sup>	64.93 <sup>56</sup>	45.056 <sup>322</sup>	81.56 <sup>30</sup>	49.210 <sup>149</sup>	45.10 <sup>40</sup>
Mai 10.3	41.853 <sup>142</sup>	48.44 <sup>49</sup>	22.721 <sup>172</sup>	65.49 <sup>33</sup>	44.734 <sup>314</sup>	81.86 <sup>21</sup>	49.061 <sup>140</sup>	44.70 <sup>59</sup>
20.2	41.711 <sup>123</sup>	48.93 <sup>42</sup>	22.549 <sup>152</sup>	65.82 <sup>10</sup>	44.420 <sup>299</sup>	81.65 <sup>70</sup>	48.921 <sup>125</sup>	44.11 <sup>76</sup>
30.2	41.588 <sup>103</sup>	49.35 <sup>34</sup>	22.397 <sup>127</sup>	65.92 <sup>14</sup>	44.121 <sup>275</sup>	80.95 <sup>117</sup>	48.796 <sup>108</sup>	43.35 <sup>92</sup>
Juni 9.2	41.485 <sup>76</sup>	49.69 <sup>25</sup>	22.270 <sup>98</sup>	65.78 <sup>36</sup>	43.846 <sup>245</sup>	79.78 <sup>163</sup>	48.688 <sup>86</sup>	42.43 <sup>105</sup>
19.2	41.409 <sup>51</sup>	49.94 <sup>15</sup>	22.172 <sup>65</sup>	65.42 <sup>56</sup>	43.601 <sup>208</sup>	78.15 <sup>202</sup>	48.602 <sup>64</sup>	41.38 <sup>116</sup>
29.1	41.358 <sup>23</sup>	50.09 <sup>7</sup>	22.107 <sup>33</sup>	64.86 <sup>76</sup>	43.393 <sup>168</sup>	76.13 <sup>237</sup>	48.538 <sup>39</sup>	40.22 <sup>123</sup>
Juli 9.1	41.335 <sup>6</sup>	50.16 <sup>4</sup>	22.074 <sup>1</sup>	64.10 <sup>93</sup>	43.225 <sup>120</sup>	73.76 <sup>265</sup>	48.499 <sup>13</sup>	38.99 <sup>128</sup>
19.1	41.341 <sup>35</sup>	50.12 <sup>15</sup>	22.075 <sup>35</sup>	63.17 <sup>109</sup>	43.105 <sup>70</sup>	71.11 <sup>286</sup>	48.486 <sup>14</sup>	37.71 <sup>127</sup>
29.0	41.376 <sup>64</sup>	49.97 <sup>26</sup>	22.110 <sup>70</sup>	62.08 <sup>123</sup>	43.035 <sup>16</sup>	68.25 <sup>297</sup>	48.500 <sup>41</sup>	36.44 <sup>123</sup>
Aug. 8.0	41.440 <sup>93</sup>	49.71 <sup>39</sup>	22.180 <sup>104</sup>	60.85 <sup>137</sup>	43.019 <sup>42</sup>	65.28 <sup>298</sup>	48.541 <sup>70</sup>	35.21 <sup>112</sup>
18.0	41.533 <sup>122</sup>	49.32 <sup>54</sup>	22.284 <sup>137</sup>	59.48 <sup>147</sup>	43.061 <sup>101</sup>	62.30 <sup>291</sup>	48.611 <sup>99</sup>	34.09 <sup>98</sup>
28.0	41.655 <sup>151</sup>	48.78 <sup>68</sup>	22.421 <sup>172</sup>	58.01 <sup>158</sup>	43.162 <sup>160</sup>	59.39 <sup>271</sup>	48.710 <sup>128</sup>	33.11 <sup>77</sup>
Sept. 6.9	41.806 <sup>180</sup>	48.10 <sup>84</sup>	22.593 <sup>205</sup>	56.43 <sup>165</sup>	43.322 <sup>220</sup>	56.68 <sup>243</sup>	48.838 <sup>159</sup>	32.34 <sup>52</sup>
16.9	41.986 <sup>210</sup>	47.26 <sup>100</sup>	22.798 <sup>237</sup>	54.78 <sup>171</sup>	43.542 <sup>276</sup>	54.25 <sup>202</sup>	48.997 <sup>188</sup>	31.82 <sup>22</sup>
26.9	42.196 <sup>237</sup>	46.26 <sup>116</sup>	23.035 <sup>270</sup>	53.07 <sup>174</sup>	43.818 <sup>329</sup>	52.23 <sup>156</sup>	49.185 <sup>219</sup>	31.60 <sup>11</sup>
Okt. 6.9	42.433 <sup>264</sup>	45.10 <sup>130</sup>	23.305 <sup>300</sup>	51.33 <sup>174</sup>	44.147 <sup>375</sup>	50.67 <sup>100</sup>	49.404 <sup>246</sup>	31.71 <sup>46</sup>
16.8	42.697 <sup>288</sup>	43.80 <sup>143</sup>	23.605 <sup>326</sup>	49.59 <sup>170</sup>	44.522 <sup>411</sup>	49.67 <sup>39</sup>	49.650 <sup>270</sup>	32.17 <sup>82</sup>
26.8	42.985 <sup>309</sup>	42.37 <sup>151</sup>	23.931 <sup>348</sup>	47.89 <sup>162</sup>	44.933 <sup>439</sup>	49.28 <sup>24</sup>	49.920 <sup>292</sup>	32.99 <sup>117</sup>
Nov. 5.8	43.294 <sup>322</sup>	40.86 <sup>156</sup>	24.279 <sup>365</sup>	46.27 <sup>148</sup>	45.372 <sup>451</sup>	49.52 <sup>88</sup>	50.212 <sup>305</sup>	34.16 <sup>149</sup>
15.7	43.616 <sup>329</sup>	39.30 <sup>155</sup>	24.644 <sup>372</sup>	44.79 <sup>131</sup>	45.823 <sup>452</sup>	50.40 <sup>150</sup>	50.517 <sup>312</sup>	35.65 <sup>177</sup>
25.7	43.945 <sup>327</sup>	37.75 <sup>149</sup>	25.016 <sup>371</sup>	43.48 <sup>107</sup>	46.275 <sup>436</sup>	51.90 <sup>208</sup>	50.829 <sup>311</sup>	37.42 <sup>200</sup>
Dez. 5.7	44.272 <sup>315</sup>	36.26 <sup>138</sup>	25.387 <sup>358</sup>	42.41 <sup>79</sup>	46.711 <sup>407</sup>	53.98 <sup>259</sup>	51.140 <sup>299</sup>	39.42 <sup>215</sup>
15.7	44.587 <sup>294</sup>	34.88 <sup>121</sup>	25.745 <sup>334</sup>	41.62 <sup>49</sup>	47.118 <sup>362</sup>	56.57 <sup>301</sup>	51.439 <sup>278</sup>	41.57 <sup>222</sup>
25.6	44.881 <sup>263</sup>	33.67 <sup>101</sup>	26.079 <sup>300</sup>	41.13 <sup>17</sup>	47.480 <sup>356</sup>	59.58 <sup>334</sup>	51.717 <sup>247</sup>	43.79 <sup>224</sup>
35.6	45.144	32.66	26.379	40.96	47.786	62.92	51.964	46.03
Mittl. Ort	41.215	57.34	22.173	68.49	43.664	52.85	48.252	26.83
sec $\delta$ , $\tan \delta$	1.052	+0.326	1.217	+0.693	1.730	-1.411	1.011	-0.146

Mittlere Zeit Greenw.	355) <i>h</i> Ursae maj.		359) $\psi$ Argus		357) <i>d</i> Ursae maj.		358) $\eta$ Ursae maj.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	9 <sup>h</sup> 25 <sup>m</sup>	+63° 23'	9 <sup>h</sup> 27 <sup>m</sup>	-40° 7'	9 <sup>h</sup> 27 <sup>m</sup>	+70° 9'	9 <sup>h</sup> 27 <sup>m</sup>	+52° 1'
Jan. 0.6	29.74 <sup>46</sup>	40.11 <sup>137</sup>	41.598 <sup>242</sup>	41.97 <sup>325</sup>	43.57 <sup>58</sup>	52.90 <sup>163</sup>	43.918 <sup>350</sup>	27.50 <sup>81</sup>
10.6	30.20 <sup>37</sup>	41.48 <sup>179</sup>	41.840 <sup>190</sup>	45.22 <sup>335</sup>	44.15 <sup>47</sup>	54.53 <sup>206</sup>	44.268 <sup>289</sup>	28.31 <sup>122</sup>
20.6	30.57 <sup>27</sup>	43.27 <sup>214</sup>	42.030 <sup>131</sup>	48.57 <sup>335</sup>	44.62 <sup>34</sup>	56.59 <sup>240</sup>	44.557 <sup>217</sup>	29.53 <sup>155</sup>
30.5	30.84 <sup>17</sup>	45.41 <sup>238</sup>	42.161 <sup>71</sup>	51.92 <sup>326</sup>	44.96 <sup>21</sup>	58.99 <sup>265</sup>	44.774 <sup>140</sup>	31.08 <sup>183</sup>
Feb. 9.5	31.01 <sup>7</sup>	47.79 <sup>254</sup>	42.232 <sup>11</sup>	55.18 <sup>308</sup>	45.17 <sup>8</sup>	61.64 <sup>280</sup>	44.914 <sup>61</sup>	32.91 <sup>201</sup>
19.5	31.08 <sup>4</sup>	50.33 <sup>258</sup>	42.243 <sup>44</sup>	58.26 <sup>284</sup>	45.25 <sup>6</sup>	64.44 <sup>280</sup>	44.975 <sup>16</sup>	34.92 <sup>211</sup>
März 1.5	31.04 <sup>13</sup>	52.91 <sup>251</sup>	42.199 <sup>94</sup>	61.10 <sup>254</sup>	45.19 <sup>19</sup>	67.24 <sup>271</sup>	44.959 <sup>86</sup>	37.03 <sup>211</sup>
11.4	30.91 <sup>22</sup>	55.42 <sup>235</sup>	42.105 <sup>137</sup>	63.64 <sup>220</sup>	45.00 <sup>29</sup>	69.95 <sup>252</sup>	44.873 <sup>149</sup>	39.14 <sup>203</sup>
21.4	30.69 <sup>29</sup>	57.77 <sup>209</sup>	41.968 <sup>171</sup>	65.84 <sup>182</sup>	44.71 <sup>39</sup>	72.47 <sup>221</sup>	44.724 <sup>199</sup>	41.17 <sup>183</sup>
31.4	30.40 <sup>34</sup>	59.86 <sup>175</sup>	41.797 <sup>197</sup>	67.66 <sup>142</sup>	44.32 <sup>47</sup>	74.68 <sup>184</sup>	44.525 <sup>236</sup>	43.00 <sup>159</sup>
Apr. 10.3	30.06 <sup>37</sup>	61.61 <sup>135</sup>	41.600 <sup>213</sup>	69.08 <sup>100</sup>	43.85 <sup>50</sup>	76.52 <sup>139</sup>	44.289 <sup>261</sup>	44.59 <sup>128</sup>
20.3	29.69 <sup>39</sup>	62.96 <sup>91</sup>	41.387 <sup>221</sup>	70.08 <sup>55</sup>	43.35 <sup>54</sup>	77.91 <sup>91</sup>	44.028 <sup>271</sup>	45.87 <sup>94</sup>
30.3	29.30 <sup>39</sup>	63.87 <sup>45</sup>	41.166 <sup>221</sup>	70.63 <sup>12</sup>	42.81 <sup>54</sup>	78.82 <sup>40</sup>	43.757 <sup>269</sup>	46.81 <sup>55</sup>
Mai 10.3	28.91 <sup>38</sup>	64.32 <sup>2</sup>	40.945 <sup>214</sup>	70.75 <sup>32</sup>	42.27 <sup>52</sup>	79.22 <sup>11</sup>	43.488 <sup>256</sup>	47.36 <sup>18</sup>
20.2	28.53 <sup>34</sup>	64.30 <sup>48</sup>	40.731 <sup>201</sup>	70.43 <sup>74</sup>	41.75 <sup>48</sup>	79.11 <sup>62</sup>	43.232 <sup>233</sup>	47.54 <sup>22</sup>
30.2	28.19 <sup>31</sup>	63.82 <sup>92</sup>	40.530 <sup>183</sup>	69.69 <sup>114</sup>	41.27 <sup>43</sup>	78.49 <sup>108</sup>	42.999 <sup>203</sup>	47.32 <sup>58</sup>
Juni 9.2	27.88 <sup>25</sup>	62.90 <sup>133</sup>	40.347 <sup>160</sup>	68.55 <sup>152</sup>	40.84 <sup>37</sup>	77.41 <sup>153</sup>	42.790 <sup>166</sup>	46.74 <sup>94</sup>
19.2	27.63 <sup>19</sup>	61.57 <sup>170</sup>	40.187 <sup>133</sup>	67.03 <sup>185</sup>	40.47 <sup>29</sup>	75.88 <sup>192</sup>	42.630 <sup>126</sup>	45.80 <sup>125</sup>
29.1	27.44 <sup>13</sup>	59.87 <sup>202</sup>	40.054 <sup>102</sup>	65.18 <sup>214</sup>	40.18 <sup>20</sup>	73.96 <sup>226</sup>	42.504 <sup>82</sup>	44.55 <sup>155</sup>
Juli 9.1	27.31 <sup>7</sup>	57.85 <sup>228</sup>	39.952 <sup>70</sup>	63.04 <sup>236</sup>	39.98 <sup>13</sup>	71.70 <sup>254</sup>	42.422 <sup>36</sup>	43.00 <sup>179</sup>
19.1	27.24 <sup>0</sup>	55.57 <sup>251</sup>	39.882 <sup>34</sup>	60.68 <sup>251</sup>	39.85 <sup>3</sup>	69.16 <sup>277</sup>	42.386 <sup>11</sup>	41.21 <sup>200</sup>
29.0	27.24 <sup>7</sup>	53.06 <sup>267</sup>	39.848 <sup>5</sup>	58.17 <sup>258</sup>	39.82 <sup>7</sup>	66.39 <sup>293</sup>	42.397 <sup>58</sup>	39.21 <sup>218</sup>
Aug. 8.0	27.31 <sup>13</sup>	50.39 <sup>279</sup>	39.853 <sup>46</sup>	55.59 <sup>258</sup>	39.89 <sup>15</sup>	63.46 <sup>304</sup>	42.455 <sup>105</sup>	37.03 <sup>231</sup>
18.0	27.44 <sup>20</sup>	47.60 <sup>284</sup>	39.899 <sup>87</sup>	53.01 <sup>247</sup>	40.04 <sup>24</sup>	60.42 <sup>308</sup>	42.560 <sup>152</sup>	34.72 <sup>239</sup>
28.0	27.64 <sup>27</sup>	44.76 <sup>284</sup>	39.986 <sup>130</sup>	50.54 <sup>227</sup>	40.28 <sup>33</sup>	57.34 <sup>305</sup>	42.712 <sup>200</sup>	32.33 <sup>245</sup>
Sept. 6.9	27.91 <sup>33</sup>	41.92 <sup>279</sup>	40.116 <sup>173</sup>	48.27 <sup>199</sup>	40.61 <sup>42</sup>	54.29 <sup>298</sup>	42.912 <sup>244</sup>	29.88 <sup>246</sup>
16.9	28.24 <sup>39</sup>	39.13 <sup>269</sup>	40.289 <sup>216</sup>	46.28 <sup>161</sup>	41.03 <sup>50</sup>	51.31 <sup>284</sup>	43.156 <sup>289</sup>	27.42 <sup>241</sup>
26.9	28.63 <sup>45</sup>	36.44 <sup>252</sup>	40.505 <sup>256</sup>	44.67 <sup>116</sup>	41.53 <sup>57</sup>	48.47 <sup>263</sup>	43.445 <sup>333</sup>	25.01 <sup>233</sup>
Okt. 6.9	29.08 <sup>50</sup>	33.92 <sup>229</sup>	40.761 <sup>293</sup>	43.51 <sup>65</sup>	42.10 <sup>64</sup>	45.84 <sup>237</sup>	43.778 <sup>372</sup>	22.68 <sup>220</sup>
16.8	29.58 <sup>55</sup>	31.63 <sup>202</sup>	41.054 <sup>324</sup>	42.86 <sup>10</sup>	42.74 <sup>70</sup>	43.47 <sup>205</sup>	44.150 <sup>408</sup>	20.48 <sup>201</sup>
26.8	30.13 <sup>58</sup>	29.61 <sup>168</sup>	41.378 <sup>348</sup>	42.76 <sup>48</sup>	43.44 <sup>75</sup>	41.42 <sup>166</sup>	44.558 <sup>437</sup>	18.47 <sup>177</sup>
Nov. 5.8	30.71 <sup>62</sup>	27.93 <sup>129</sup>	41.726 <sup>364</sup>	43.24 <sup>106</sup>	44.19 <sup>78</sup>	39.76 <sup>122</sup>	44.995 <sup>460</sup>	16.70 <sup>147</sup>
15.7	31.33 <sup>62</sup>	26.64 <sup>85</sup>	42.090 <sup>368</sup>	44.30 <sup>160</sup>	44.97 <sup>79</sup>	38.54 <sup>74</sup>	45.455 <sup>472</sup>	15.23 <sup>113</sup>
25.7	31.95 <sup>62</sup>	25.79 <sup>38</sup>	42.458 <sup>362</sup>	45.90 <sup>210</sup>	45.76 <sup>79</sup>	37.80 <sup>23</sup>	45.927 <sup>471</sup>	14.10 <sup>74</sup>
Dez. 5.7	32.57 <sup>60</sup>	25.41 <sup>12</sup>	42.820 <sup>343</sup>	48.00 <sup>254</sup>	46.55 <sup>76</sup>	37.57 <sup>31</sup>	46.398 <sup>457</sup>	13.36 <sup>31</sup>
15.7	33.17 <sup>56</sup>	25.53 <sup>62</sup>	43.163 <sup>312</sup>	50.54 <sup>288</sup>	47.31 <sup>72</sup>	37.88 <sup>84</sup>	46.855 <sup>429</sup>	13.05 <sup>13</sup>
25.6	33.73 <sup>50</sup>	26.15 <sup>110</sup>	43.475 <sup>273</sup>	53.42 <sup>314</sup>	48.03 <sup>64</sup>	38.72 <sup>135</sup>	47.284 <sup>387</sup>	13.18 <sup>55</sup>
35.6	34.23	27.25	43.748	56.56	48.67	40.07	47.671	13.73
Mittl. Ort sec $\delta$ , tg $\delta$	28.65 2.233	58.74 +1.997	39.927 1.308	44.29 -0.843	42.21 2.948	72.09 +2.773	43.069 1.625	44.94 +1.281

# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	360) $\iota$ Leonis min.		366) $\theta$ Antliae		367) $\epsilon$ Leonis		369) $\upsilon$ Argus	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	9 <sup>h</sup> 29 <sup>m</sup>	+36° 43'	9 <sup>h</sup> 40 <sup>m</sup>	-27° 24'	9 <sup>h</sup> 41 <sup>m</sup>	+24° 7'	9 <sup>h</sup> 45 <sup>m</sup>	-64° 42'
Jan. 0.6	31.497 <sup>289</sup>	69.96 <sup>5</sup>	47.357 <sup>242</sup>	58.39 <sup>291</sup>	29.760 <sup>268</sup>	33.77 <sup>69</sup>	13.95 <sup>37</sup>	44.05 <sup>338</sup>
10.6	31.786 <sup>239</sup>	70.01 <sup>40</sup>	47.599 <sup>197</sup>	61.30 <sup>293</sup>	30.028 <sup>225</sup>	33.08 <sup>39</sup>	14.32 <sup>29</sup>	47.43 <sup>364</sup>
20.6	32.025 <sup>183</sup>	70.41 <sup>71</sup>	47.796 <sup>147</sup>	64.23 <sup>289</sup>	30.253 <sup>175</sup>	32.69 <sup>9</sup>	14.61 <sup>19</sup>	51.07 <sup>378</sup>
30.5	32.208 <sup>122</sup>	71.12 <sup>99</sup>	47.943 <sup>93</sup>	67.12 <sup>277</sup>	30.428 <sup>123</sup>	32.60 <sup>20</sup>	14.80 <sup>9</sup>	54.85 <sup>382</sup>
Feb. 9.5	32.330 <sup>60</sup>	72.11 <sup>122</sup>	48.036 <sup>41</sup>	69.89 <sup>256</sup>	30.551 <sup>68</sup>	32.80 <sup>44</sup>	14.89 <sup>0</sup>	58.67 <sup>376</sup>
19.5	32.390 <sup>1</sup>	73.33 <sup>136</sup>	48.077 <sup>10</sup>	72.45 <sup>234</sup>	30.619 <sup>14</sup>	33.24 <sup>66</sup>	14.89 <sup>10</sup>	62.43 <sup>361</sup>
März 1.5	32.389 <sup>55</sup>	74.69 <sup>145</sup>	48.067 <sup>56</sup>	74.79 <sup>205</sup>	30.633 <sup>34</sup>	33.90 <sup>81</sup>	14.79 <sup>18</sup>	66.04 <sup>337</sup>
11.4	32.334 <sup>102</sup>	76.14 <sup>146</sup>	48.011 <sup>95</sup>	76.84 <sup>173</sup>	30.599 <sup>76</sup>	34.71 <sup>91</sup>	14.61 <sup>25</sup>	69.41 <sup>308</sup>
21.4	32.232 <sup>141</sup>	77.60 <sup>140</sup>	47.916 <sup>126</sup>	78.57 <sup>141</sup>	30.523 <sup>111</sup>	35.62 <sup>96</sup>	14.36 <sup>32</sup>	72.49 <sup>270</sup>
31.4	32.091 <sup>168</sup>	79.00 <sup>127</sup>	47.790 <sup>149</sup>	79.98 <sup>105</sup>	30.412 <sup>135</sup>	36.58 <sup>96</sup>	14.04 <sup>37</sup>	75.19 <sup>230</sup>
Apr. 10.4	31.923 <sup>186</sup>	80.27 <sup>110</sup>	47.641 <sup>165</sup>	81.03 <sup>70</sup>	30.277 <sup>152</sup>	37.54 <sup>90</sup>	13.67 <sup>40</sup>	77.49 <sup>183</sup>
20.3	31.737 <sup>192</sup>	81.37 <sup>90</sup>	47.476 <sup>174</sup>	81.73 <sup>35</sup>	30.125 <sup>159</sup>	38.44 <sup>82</sup>	13.27 <sup>43</sup>	79.32 <sup>134</sup>
30.3	31.545 <sup>190</sup>	82.27 <sup>65</sup>	47.302 <sup>173</sup>	82.08 <sup>2</sup>	29.966 <sup>158</sup>	39.26 <sup>71</sup>	12.84 <sup>45</sup>	80.66 <sup>83</sup>
Mai 10.3	31.355 <sup>179</sup>	82.92 <sup>40</sup>	47.129 <sup>169</sup>	82.06 <sup>35</sup>	29.808 <sup>151</sup>	39.97 <sup>56</sup>	12.39 <sup>45</sup>	81.49 <sup>30</sup>
20.2	31.176 <sup>161</sup>	83.32 <sup>14</sup>	46.960 <sup>157</sup>	81.71 <sup>70</sup>	29.657 <sup>136</sup>	40.53 <sup>43</sup>	11.94 <sup>44</sup>	81.79 <sup>22</sup>
30.2	31.015 <sup>138</sup>	83.46 <sup>12</sup>	46.803 <sup>143</sup>	81.01 <sup>101</sup>	29.521 <sup>119</sup>	40.96 <sup>28</sup>	11.50 <sup>41</sup>	81.57 <sup>76</sup>
Juni 9.2	30.877 <sup>110</sup>	83.34 <sup>36</sup>	46.660 <sup>124</sup>	80.00 <sup>130</sup>	29.402 <sup>96</sup>	41.24 <sup>11</sup>	11.09 <sup>39</sup>	80.81 <sup>125</sup>
19.2	30.767 <sup>80</sup>	82.98 <sup>60</sup>	46.536 <sup>102</sup>	78.70 <sup>156</sup>	29.306 <sup>72</sup>	41.35 <sup>4</sup>	10.70 <sup>35</sup>	79.56 <sup>172</sup>
29.1	30.687 <sup>47</sup>	82.38 <sup>82</sup>	46.434 <sup>78</sup>	77.14 <sup>178</sup>	29.234 <sup>46</sup>	41.31 <sup>19</sup>	10.35 <sup>30</sup>	77.84 <sup>214</sup>
Juli 9.1	30.640 <sup>14</sup>	81.56 <sup>102</sup>	46.356 <sup>51</sup>	75.36 <sup>193</sup>	29.188 <sup>19</sup>	41.12 <sup>34</sup>	10.05 <sup>25</sup>	75.70 <sup>249</sup>
19.1	30.626 <sup>21</sup>	80.54 <sup>120</sup>	46.305 <sup>22</sup>	73.43 <sup>204</sup>	29.169 <sup>10</sup>	40.78 <sup>51</sup>	9.80 <sup>18</sup>	73.21 <sup>279</sup>
29.1	30.647 <sup>55</sup>	79.34 <sup>136</sup>	46.283 <sup>8</sup>	71.39 <sup>208</sup>	29.179 <sup>38</sup>	40.27 <sup>65</sup>	9.62 <sup>10</sup>	70.42 <sup>298</sup>
Aug. 8.0	30.702 <sup>90</sup>	77.98 <sup>130</sup>	46.291 <sup>42</sup>	69.31 <sup>205</sup>	29.217 <sup>69</sup>	39.62 <sup>80</sup>	9.52 <sup>3</sup>	67.44 <sup>309</sup>
18.0	30.792 <sup>125</sup>	76.48 <sup>163</sup>	46.333 <sup>75</sup>	67.26 <sup>194</sup>	29.286 <sup>98</sup>	38.82 <sup>95</sup>	9.49 <sup>6</sup>	64.35 <sup>310</sup>
28.0	30.917 <sup>160</sup>	74.85 <sup>174</sup>	46.408 <sup>111</sup>	65.32 <sup>174</sup>	29.384 <sup>130</sup>	37.87 <sup>111</sup>	9.55 <sup>14</sup>	61.25 <sup>298</sup>
Sept. 6.9	31.077 <sup>195</sup>	73.11 <sup>181</sup>	46.519 <sup>148</sup>	63.58 <sup>148</sup>	29.514 <sup>161</sup>	36.76 <sup>125</sup>	9.69 <sup>22</sup>	58.27 <sup>277</sup>
16.9	31.272 <sup>230</sup>	71.30 <sup>188</sup>	46.667 <sup>184</sup>	62.10 <sup>114</sup>	29.675 <sup>193</sup>	35.51 <sup>139</sup>	9.91 <sup>31</sup>	55.50 <sup>244</sup>
26.9	31.502 <sup>264</sup>	69.42 <sup>190</sup>	46.851 <sup>220</sup>	60.96 <sup>74</sup>	29.868 <sup>226</sup>	34.12 <sup>152</sup>	10.22 <sup>39</sup>	53.06 <sup>202</sup>
(Okt. 6.9	31.766 <sup>296</sup>	67.52 <sup>190</sup>	47.071 <sup>254</sup>	60.22 <sup>29</sup>	30.094 <sup>256</sup>	32.60 <sup>162</sup>	10.61 <sup>45</sup>	51.04 <sup>150</sup>
16.8	32.062 <sup>326</sup>	65.62 <sup>184</sup>	47.325 <sup>283</sup>	59.93 <sup>19</sup>	30.350 <sup>284</sup>	30.98 <sup>169</sup>	11.06 <sup>51</sup>	49.54 <sup>91</sup>
26.8	32.388 <sup>351</sup>	63.78 <sup>175</sup>	47.608 <sup>309</sup>	60.12 <sup>69</sup>	30.634 <sup>310</sup>	29.29 <sup>174</sup>	11.57 <sup>56</sup>	48.63 <sup>28</sup>
Nov. 5.8	32.739 <sup>370</sup>	62.03 <sup>160</sup>	47.917 <sup>326</sup>	60.81 <sup>118</sup>	30.944 <sup>329</sup>	27.55 <sup>171</sup>	12.13 <sup>58</sup>	48.35 <sup>38</sup>
15.8	33.109 <sup>381</sup>	60.43 <sup>139</sup>	48.243 <sup>334</sup>	61.99 <sup>164</sup>	31.273 <sup>341</sup>	25.84 <sup>165</sup>	12.71 <sup>59</sup>	48.73 <sup>104</sup>
25.7	33.490 <sup>382</sup>	59.04 <sup>115</sup>	48.577 <sup>333</sup>	63.63 <sup>204</sup>	31.614 <sup>345</sup>	24.19 <sup>154</sup>	13.30 <sup>57</sup>	49.77 <sup>166</sup>
Dez. 5.7	33.872 <sup>371</sup>	57.89 <sup>84</sup>	48.910 <sup>322</sup>	65.67 <sup>239</sup>	31.959 <sup>337</sup>	22.65 <sup>134</sup>	13.87 <sup>54</sup>	51.43 <sup>225</sup>
15.7	34.243 <sup>351</sup>	57.05 <sup>52</sup>	49.232 <sup>299</sup>	68.06 <sup>266</sup>	32.296 <sup>321</sup>	21.31 <sup>113</sup>	14.41 <sup>49</sup>	53.68 <sup>275</sup>
25.6	34.594 <sup>317</sup>	56.53 <sup>16</sup>	49.531 <sup>267</sup>	70.72 <sup>283</sup>	32.617 <sup>292</sup>	20.18 <sup>86</sup>	14.90 <sup>42</sup>	56.43 <sup>317</sup>
35.6	34.911	56.37	49.798	73.55	32.909	19.32	15.32	59.60
Mittl. Ort sec $\delta$ , tg $\delta$	30.749 1.248	85.02 +0.746	46.091 1.127	58.82 -0.519	29.064 1.095	46.19 +0.448	10.68 2.342	52.07 -2.117



Mittlere Zeit Greenw.	368) $\nu$ Ursae maj.		370) $\delta$ Sextantis		372) Gr. 1586		378) $\pi$ Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$9^h 45^m$	$+59^\circ 23'$	$9^h 47^m$	$-3^\circ 52'$	$9^h 51^m$	$+73^\circ 14'$	$9^h 56^m$	$+8^\circ 24'$
Jan. 0.5	32.540 <sup>433</sup>	47.92 <sup>101</sup>	22.138 <sup>243</sup>	60.02 <sup>205</sup>	33.26 <sup>72</sup>	28.04 <sup>149</sup>	9.491 <sup>257</sup>	43.15 <sup>152</sup>
10.6	32.973 <sup>363</sup>	48.93 <sup>144</sup>	22.381 <sup>204</sup>	62.07 <sup>192</sup>	33.98 <sup>59</sup>	29.53 <sup>196</sup>	9.748 <sup>219</sup>	41.63 <sup>132</sup>
20.6	33.336 <sup>282</sup>	50.37 <sup>183</sup>	22.585 <sup>159</sup>	63.99 <sup>175</sup>	34.57 <sup>47</sup>	31.49 <sup>236</sup>	9.967 <sup>174</sup>	40.31 <sup>107</sup>
30.6	33.618 <sup>193</sup>	52.20 <sup>213</sup>	22.744 <sup>110</sup>	65.74 <sup>154</sup>	35.04 <sup>31</sup>	33.85 <sup>267</sup>	10.141 <sup>125</sup>	39.24 <sup>82</sup>
Feb. 9.5	33.811 <sup>100</sup>	54.33 <sup>235</sup>	22.854 <sup>60</sup>	67.28 <sup>131</sup>	35.35 <sup>15</sup>	36.52 <sup>286</sup>	10.266 <sup>75</sup>	38.42 <sup>56</sup>
19.5	33.911 <sup>8</sup>	56.68 <sup>245</sup>	22.914 <sup>14</sup>	68.59 <sup>105</sup>	35.50 <sup>0</sup>	39.38 <sup>293</sup>	10.341 <sup>27</sup>	37.86 <sup>31</sup>
März 1.5	33.919 <sup>79</sup>	59.13 <sup>247</sup>	22.928 <sup>30</sup>	69.64 <sup>80</sup>	35.50 <sup>15</sup>	42.31 <sup>289</sup>	10.368 <sup>18</sup>	37.55 <sup>9</sup>
11.4	33.840 <sup>156</sup>	61.60 <sup>236</sup>	22.898 <sup>67</sup>	70.44 <sup>56</sup>	35.35 <sup>29</sup>	45.20 <sup>272</sup>	10.350 <sup>57</sup>	37.46 <sup>10</sup>
21.4	33.684 <sup>222</sup>	63.96 <sup>215</sup>	22.831 <sup>98</sup>	71.00 <sup>34</sup>	35.06 <sup>41</sup>	47.92 <sup>246</sup>	10.293 <sup>89</sup>	37.56 <sup>27</sup>
31.4	33.462 <sup>272</sup>	66.11 <sup>189</sup>	22.733 <sup>119</sup>	71.34 <sup>12</sup>	34.65 <sup>50</sup>	50.38 <sup>209</sup>	10.204 <sup>114</sup>	37.83 <sup>39</sup>
Apr. 10.4	33.190 <sup>309</sup>	68.00 <sup>154</sup>	22.614 <sup>135</sup>	71.46 <sup>7</sup>	34.15 <sup>58</sup>	52.47 <sup>167</sup>	10.090 <sup>129</sup>	38.22 <sup>49</sup>
20.3	32.881 <sup>328</sup>	69.54 <sup>115</sup>	22.479 <sup>141</sup>	71.39 <sup>25</sup>	33.57 <sup>61</sup>	54.14 <sup>118</sup>	9.961 <sup>138</sup>	38.71 <sup>55</sup>
30.3	32.553 <sup>334</sup>	70.69 <sup>71</sup>	22.337 <sup>141</sup>	71.14 <sup>41</sup>	32.96 <sup>64</sup>	55.32 <sup>66</sup>	9.823 <sup>139</sup>	39.26 <sup>60</sup>
Mai 10.3	32.219 <sup>325</sup>	71.40 <sup>27</sup>	22.198 <sup>136</sup>	70.73 <sup>55</sup>	32.32 <sup>63</sup>	55.98 <sup>14</sup>	9.684 <sup>135</sup>	39.86 <sup>62</sup>
20.3	31.894 <sup>304</sup>	71.67 <sup>18</sup>	22.061 <sup>124</sup>	70.18 <sup>68</sup>	31.69 <sup>61</sup>	56.12 <sup>40</sup>	9.549 <sup>124</sup>	40.48 <sup>62</sup>
30.2	31.590 <sup>274</sup>	71.49 <sup>61</sup>	21.937 <sup>111</sup>	69.50 <sup>79</sup>	31.08 <sup>56</sup>	55.72 <sup>90</sup>	9.425 <sup>111</sup>	41.10 <sup>62</sup>
Juni 9.2	31.316 <sup>236</sup>	70.88 <sup>102</sup>	21.826 <sup>93</sup>	68.71 <sup>88</sup>	30.52 <sup>49</sup>	54.82 <sup>139</sup>	9.314 <sup>93</sup>	41.72 <sup>59</sup>
19.2	31.080 <sup>190</sup>	69.86 <sup>141</sup>	21.733 <sup>73</sup>	67.83 <sup>95</sup>	30.03 <sup>41</sup>	53.43 <sup>182</sup>	9.221 <sup>74</sup>	42.31 <sup>55</sup>
29.1	30.890 <sup>140</sup>	68.45 <sup>174</sup>	21.660 <sup>51</sup>	66.88 <sup>100</sup>	29.62 <sup>33</sup>	51.61 <sup>221</sup>	9.147 <sup>53</sup>	42.86 <sup>51</sup>
Juli 9.1	30.750 <sup>86</sup>	66.71 <sup>204</sup>	21.608 <sup>28</sup>	65.88 <sup>101</sup>	29.29 <sup>23</sup>	49.40 <sup>253</sup>	9.094 <sup>29</sup>	43.37 <sup>43</sup>
19.1	30.664 <sup>31</sup>	64.67 <sup>230</sup>	21.580 <sup>3</sup>	64.87 <sup>99</sup>	29.06 <sup>13</sup>	46.87 <sup>282</sup>	9.065 <sup>6</sup>	43.80 <sup>35</sup>
29.1	30.633 <sup>26</sup>	62.37 <sup>250</sup>	21.577 <sup>22</sup>	63.88 <sup>93</sup>	28.93 <sup>2</sup>	44.05 <sup>302</sup>	9.059 <sup>20</sup>	44.15 <sup>23</sup>
Aug. 8.0	30.659 <sup>84</sup>	59.87 <sup>265</sup>	21.599 <sup>50</sup>	62.95 <sup>83</sup>	28.91 <sup>9</sup>	41.03 <sup>317</sup>	9.079 <sup>47</sup>	44.38 <sup>11</sup>
18.0	30.743 <sup>141</sup>	57.22 <sup>276</sup>	21.649 <sup>77</sup>	62.12 <sup>69</sup>	29.00 <sup>19</sup>	37.86 <sup>325</sup>	9.126 <sup>74</sup>	44.49 <sup>5</sup>
28.0	30.884 <sup>200</sup>	54.46 <sup>281</sup>	21.726 <sup>107</sup>	61.43 <sup>50</sup>	29.19 <sup>29</sup>	34.61 <sup>327</sup>	9.200 <sup>104</sup>	44.44 <sup>23</sup>
Sept. 7.0	31.084 <sup>257</sup>	51.65 <sup>282</sup>	21.833 <sup>138</sup>	60.93 <sup>27</sup>	29.48 <sup>41</sup>	31.34 <sup>322</sup>	9.304 <sup>134</sup>	4.21 <sup>43</sup>
16.9	31.341 <sup>313</sup>	48.83 <sup>276</sup>	21.971 <sup>170</sup>	60.66 <sup>0</sup>	29.89 <sup>50</sup>	28.12 <sup>310</sup>	9.438 <sup>165</sup>	3.78 <sup>66</sup>
26.9	31.654 <sup>367</sup>	46.07 <sup>265</sup>	22.141 <sup>200</sup>	60.66 <sup>30</sup>	30.39 <sup>59</sup>	25.02 <sup>292</sup>	9.603 <sup>197</sup>	3.12 <sup>88</sup>
Okt. 6.9	32.021 <sup>418</sup>	43.42 <sup>249</sup>	22.341 <sup>231</sup>	60.96 <sup>62</sup>	30.98 <sup>69</sup>	22.10 <sup>267</sup>	9.800 <sup>228</sup>	2.24 <sup>111</sup>
16.8	32.439 <sup>464</sup>	40.93 <sup>225</sup>	22.572 <sup>259</sup>	61.58 <sup>93</sup>	31.67 <sup>77</sup>	19.43 <sup>236</sup>	10.028 <sup>257</sup>	-1.13 <sup>134</sup>
26.8	32.903 <sup>503</sup>	38.68 <sup>197</sup>	22.831 <sup>283</sup>	62.51 <sup>124</sup>	32.44 <sup>83</sup>	17.07 <sup>197</sup>	10.285 <sup>283</sup>	39.79 <sup>152</sup>
Nov. 5.8	33.406 <sup>534</sup>	36.71 <sup>161</sup>	23.114 <sup>302</sup>	63.75 <sup>153</sup>	33.27 <sup>88</sup>	15.10 <sup>153</sup>	10.568 <sup>304</sup>	38.27 <sup>169</sup>
15.8	33.940 <sup>553</sup>	35.10 <sup>122</sup>	23.416 <sup>313</sup>	65.28 <sup>176</sup>	34.15 <sup>91</sup>	13.57 <sup>104</sup>	10.872 <sup>317</sup>	36.58 <sup>179</sup>
25.7	34.493 <sup>557</sup>	33.88 <sup>76</sup>	23.729 <sup>316</sup>	67.04 <sup>194</sup>	35.06 <sup>91</sup>	12.53 <sup>50</sup>	11.189 <sup>322</sup>	34.79 <sup>184</sup>
Dec. 5.7	35.050 <sup>546</sup>	33.12 <sup>28</sup>	24.045 <sup>309</sup>	68.98 <sup>207</sup>	35.97 <sup>90</sup>	12.03 <sup>6</sup>	11.511 <sup>318</sup>	32.95 <sup>184</sup>
15.7	35.596 <sup>518</sup>	32.84 <sup>21</sup>	24.354 <sup>292</sup>	71.05 <sup>211</sup>	36.87 <sup>86</sup>	12.09 <sup>62</sup>	11.829 <sup>304</sup>	31.11 <sup>175</sup>
25.7	36.114 <sup>473</sup>	33.05 <sup>71</sup>	24.646 <sup>265</sup>	73.16 <sup>208</sup>	37.73 <sup>77</sup>	12.71 <sup>118</sup>	12.133 <sup>278</sup>	29.36 <sup>163</sup>
35.6	36.587	33.76	24.911	75.24	38.50	13.89	12.411	27.73
Mittl. Ort	31.767	66.55	21.267	54.77	32.14	47.93	8.776	51.38
sec $\delta$ , tg $\delta$	1.965	+1.691	1.002	-0.068	3.469	+3.322	1.011	+0.148

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	379) $\eta$ Leonis		380) $\alpha$ Leonis		381) $\lambda$ Hydrae		382) $\gamma$ Velorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$10^h 3^m$	$+17^\circ 7'$	$10^h 4^m$	$+12^\circ 20'$	$10^h 6^m$	$-11^\circ 58'$	$10^h 11^m$	$-41^\circ 44'$
Jan. 0.6	8.856 <sup>273</sup>	69.05 <sup>115</sup>	17.054 <sup>267</sup>	29.60 <sup>137</sup>	50.946 <sup>256</sup>	24.64 <sup>237</sup>	31.513 <sup>294</sup>	17.82 <sup>309</sup>
10.6	9.129 <sup>233</sup>	67.90 <sup>87</sup>	17.321 <sup>229</sup>	28.23 <sup>114</sup>	51.202 <sup>218</sup>	27.01 <sup>232</sup>	31.807 <sup>245</sup>	20.91 <sup>327</sup>
20.6	9.362 <sup>189</sup>	67.03 <sup>59</sup>	17.550 <sup>184</sup>	27.09 <sup>86</sup>	51.420 <sup>175</sup>	29.33 <sup>220</sup>	32.052 <sup>190</sup>	24.18 <sup>333</sup>
30.6	9.551 <sup>138</sup>	66.44 <sup>30</sup>	17.734 <sup>135</sup>	26.23 <sup>60</sup>	51.595 <sup>125</sup>	31.53 <sup>202</sup>	32.242 <sup>131</sup>	27.51 <sup>332</sup>
Feb. 9.5	9.689 <sup>87</sup>	66.14 <sup>2</sup>	17.869 <sup>85</sup>	25.63 <sup>33</sup>	51.720 <sup>77</sup>	33.55 <sup>180</sup>	32.373 <sup>72</sup>	30.83 <sup>322</sup>
19.5	9.776 <sup>36</sup>	66.12 <sup>22</sup>	17.954 <sup>36</sup>	25.30 <sup>8</sup>	51.797 <sup>30</sup>	35.35 <sup>156</sup>	32.445 <sup>15</sup>	34.05 <sup>304</sup>
März 1.5	9.812 <sup>10</sup>	66.34 <sup>42</sup>	17.990 <sup>10</sup>	25.22 <sup>14</sup>	51.827 <sup>15</sup>	36.91 <sup>131</sup>	32.460 <sup>39</sup>	37.09 <sup>281</sup>
11.5	9.802 <sup>53</sup>	66.76 <sup>59</sup>	17.980 <sup>50</sup>	25.36 <sup>33</sup>	51.812 <sup>53</sup>	38.22 <sup>104</sup>	32.421 <sup>86</sup>	39.90 <sup>251</sup>
21.4	9.749 <sup>86</sup>	67.35 <sup>70</sup>	17.930 <sup>84</sup>	25.69 <sup>46</sup>	51.759 <sup>85</sup>	39.26 <sup>77</sup>	32.335 <sup>127</sup>	42.41 <sup>218</sup>
31.4	9.663 <sup>113</sup>	68.05 <sup>76</sup>	17.846 <sup>110</sup>	26.15 <sup>57</sup>	51.674 <sup>110</sup>	40.03 <sup>52</sup>	32.208 <sup>158</sup>	44.59 <sup>181</sup>
Apr. 10.4	9.550 <sup>131</sup>	68.81 <sup>79</sup>	17.736 <sup>127</sup>	26.72 <sup>64</sup>	51.564 <sup>127</sup>	40.55 <sup>26</sup>	32.050 <sup>182</sup>	46.40 <sup>142</sup>
20.3	9.419 <sup>141</sup>	69.60 <sup>78</sup>	17.609 <sup>137</sup>	27.36 <sup>67</sup>	51.437 <sup>137</sup>	40.81 <sup>3</sup>	31.868 <sup>199</sup>	47.82 <sup>101</sup>
30.3	9.278 <sup>144</sup>	70.38 <sup>74</sup>	17.472 <sup>139</sup>	28.03 <sup>67</sup>	51.300 <sup>141</sup>	40.84 <sup>20</sup>	31.669 <sup>208</sup>	48.83 <sup>57</sup>
Mai 10.3	9.134 <sup>140</sup>	71.12 <sup>67</sup>	17.333 <sup>136</sup>	28.70 <sup>66</sup>	51.159 <sup>139</sup>	40.64 <sup>42</sup>	31.461 <sup>210</sup>	49.40 <sup>14</sup>
20.3	8.994 <sup>130</sup>	71.79 <sup>59</sup>	17.197 <sup>127</sup>	29.36 <sup>62</sup>	51.020 <sup>132</sup>	40.22 <sup>62</sup>	31.251 <sup>206</sup>	49.54 <sup>28</sup>
30.2	8.864 <sup>117</sup>	72.38 <sup>49</sup>	17.070 <sup>115</sup>	29.98 <sup>56</sup>	50.888 <sup>120</sup>	39.60 <sup>80</sup>	31.045 <sup>197</sup>	49.26 <sup>71</sup>
Juni 9.2	8.747 <sup>100</sup>	72.87 <sup>38</sup>	16.955 <sup>98</sup>	30.54 <sup>51</sup>	50.768 <sup>107</sup>	38.80 <sup>96</sup>	30.848 <sup>182</sup>	48.55 <sup>110</sup>
19.2	8.647 <sup>80</sup>	73.25 <sup>27</sup>	16.857 <sup>79</sup>	31.05 <sup>43</sup>	50.661 <sup>89</sup>	37.84 <sup>110</sup>	30.666 <sup>164</sup>	47.45 <sup>148</sup>
29.2	8.567 <sup>58</sup>	73.52 <sup>15</sup>	16.778 <sup>58</sup>	31.48 <sup>34</sup>	50.572 <sup>71</sup>	36.74 <sup>121</sup>	30.502 <sup>141</sup>	45.97 <sup>180</sup>
Juli 9.1	8.509 <sup>35</sup>	73.67 <sup>2</sup>	16.720 <sup>36</sup>	31.82 <sup>25</sup>	50.501 <sup>49</sup>	35.53 <sup>128</sup>	30.361 <sup>114</sup>	44.17 <sup>208</sup>
19.1	8.474 <sup>10</sup>	73.69 <sup>12</sup>	16.684 <sup>12</sup>	32.07 <sup>14</sup>	50.452 <sup>26</sup>	34.25 <sup>131</sup>	30.247 <sup>82</sup>	42.09 <sup>230</sup>
29.1	8.464 <sup>15</sup>	73.57 <sup>27</sup>	16.672 <sup>13</sup>	32.21 <sup>0</sup>	50.426 <sup>1</sup>	32.94 <sup>130</sup>	30.165 <sup>48</sup>	39.79 <sup>244</sup>
Aug. 8.0	8.479 <sup>43</sup>	73.30 <sup>41</sup>	16.685 <sup>40</sup>	32.21 <sup>13</sup>	50.425 <sup>25</sup>	31.64 <sup>123</sup>	30.117 <sup>9</sup>	37.35 <sup>251</sup>
18.0	8.522 <sup>72</sup>	72.89 <sup>58</sup>	16.725 <sup>68</sup>	32.08 <sup>30</sup>	50.450 <sup>55</sup>	30.41 <sup>111</sup>	30.108 <sup>32</sup>	34.84 <sup>249</sup>
28.0	8.594 <sup>101</sup>	72.31 <sup>76</sup>	16.793 <sup>97</sup>	31.78 <sup>48</sup>	50.505 <sup>86</sup>	29.30 <sup>94</sup>	30.140 <sup>78</sup>	32.35 <sup>237</sup>
Sept. 7.0	8.695 <sup>133</sup>	71.55 <sup>94</sup>	16.890 <sup>128</sup>	31.30 <sup>67</sup>	50.591 <sup>119</sup>	28.36 <sup>70</sup>	30.218 <sup>124</sup>	29.98 <sup>216</sup>
16.9	8.828 <sup>165</sup>	70.61 <sup>113</sup>	17.018 <sup>159</sup>	30.63 <sup>88</sup>	50.710 <sup>152</sup>	27.66 <sup>43</sup>	30.342 <sup>172</sup>	27.82 <sup>185</sup>
26.9	8.993 <sup>197</sup>	69.48 <sup>131</sup>	17.177 <sup>193</sup>	29.75 <sup>108</sup>	50.862 <sup>186</sup>	27.23 <sup>10</sup>	30.514 <sup>218</sup>	25.97 <sup>148</sup>
Okt. 6.9	9.190 <sup>231</sup>	68.17 <sup>147</sup>	17.370 <sup>224</sup>	28.67 <sup>129</sup>	51.048 <sup>220</sup>	27.13 <sup>26</sup>	30.732 <sup>264</sup>	24.49 <sup>101</sup>
16.9	9.421 <sup>260</sup>	66.70 <sup>162</sup>	17.594 <sup>255</sup>	27.38 <sup>148</sup>	51.268 <sup>251</sup>	27.39 <sup>63</sup>	30.996 <sup>304</sup>	23.48 <sup>50</sup>
26.8	9.681 <sup>288</sup>	65.08 <sup>173</sup>	17.849 <sup>282</sup>	25.90 <sup>164</sup>	51.519 <sup>278</sup>	28.02 <sup>100</sup>	31.300 <sup>338</sup>	22.98 <sup>6</sup>
Nov. 5.8	9.969 <sup>311</sup>	63.35 <sup>180</sup>	18.131 <sup>304</sup>	24.26 <sup>175</sup>	51.797 <sup>300</sup>	29.02 <sup>137</sup>	31.638 <sup>364</sup>	23.04 <sup>64</sup>
15.8	10.280 <sup>326</sup>	61.55 <sup>182</sup>	18.435 <sup>320</sup>	22.51 <sup>182</sup>	52.097 <sup>315</sup>	30.39 <sup>168</sup>	32.002 <sup>379</sup>	23.68 <sup>119</sup>
25.7	10.606 <sup>333</sup>	59.73 <sup>177</sup>	18.755 <sup>326</sup>	20.69 <sup>183</sup>	52.412 <sup>320</sup>	32.07 <sup>196</sup>	32.381 <sup>383</sup>	24.87 <sup>173</sup>
Dez. 5.7	10.939 <sup>331</sup>	57.96 <sup>167</sup>	19.081 <sup>324</sup>	18.86 <sup>178</sup>	52.732 <sup>316</sup>	34.03 <sup>217</sup>	32.764 <sup>374</sup>	26.60 <sup>220</sup>
15.7	11.270 <sup>317</sup>	56.29 <sup>151</sup>	19.405 <sup>310</sup>	17.08 <sup>167</sup>	53.048 <sup>302</sup>	36.20 <sup>230</sup>	33.138 <sup>353</sup>	28.80 <sup>261</sup>
25.7	11.587 <sup>294</sup>	54.78 <sup>129</sup>	19.715 <sup>288</sup>	15.41 <sup>149</sup>	53.350 <sup>277</sup>	38.50 <sup>237</sup>	33.491 <sup>319</sup>	31.41 <sup>293</sup>
35.6	11.881	53.49	20.003	13.92	53.627	40.87	33.810	34.34
Mittl. Ort sec $\delta$ , tg $\delta$	8.240 1.046	79.41 +0.308	16.411 1.024	38.65 +0.219	50.061 1.022	22.50 -0.212	29.989 1.340	23.81 -0.892

Mittlere Zeit Greenw.	384) ζ Leonis		383) λ Ursae maj.		386) μ Ursae maj.		387) 30 II. Urs. maj.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	10 <sup>h</sup> 12 <sup>m</sup>	+23° 47'	10 <sup>h</sup> 12 <sup>m</sup>	+43° 17'	10 <sup>h</sup> 17 <sup>m</sup>	+41° 52'	10 <sup>h</sup> 18 <sup>m</sup>	+65° 56'
1923								
Jan. 0.7	25.210 <sup>290</sup>	53.99 <sup>89</sup>	28.075 <sup>348</sup>	41.64 <sup>2</sup>	45.353 <sup>346</sup>	58.16 <sup>9</sup>	36.37 <sup>57</sup>	63.78 <sup>92</sup>
10.6	25.500 <sup>251</sup>	53.10 <sup>56</sup>	28.423 <sup>302</sup>	41.66 <sup>44</sup>	45.699 <sup>301</sup>	58.07 <sup>34</sup>	36.94 <sup>49</sup>	64.70 <sup>142</sup>
20.6	25.751 <sup>205</sup>	52.54 <sup>24</sup>	28.725 <sup>247</sup>	42.10 <sup>86</sup>	46.000 <sup>249</sup>	58.41 <sup>74</sup>	37.43 <sup>40</sup>	66.12 <sup>189</sup>
30.6	25.956 <sup>155</sup>	52.30 <sup>8</sup>	28.972 <sup>184</sup>	42.96 <sup>121</sup>	46.249 <sup>188</sup>	59.15 <sup>111</sup>	37.83 <sup>30</sup>	68.01 <sup>226</sup>
Feb. 9.5	26.111 <sup>100</sup>	52.38 <sup>37</sup>	29.156 <sup>119</sup>	44.17 <sup>150</sup>	46.437 <sup>124</sup>	60.26 <sup>142</sup>	38.13 <sup>19</sup>	70.27 <sup>253</sup>
19.5	26.211 <sup>48</sup>	52.75 <sup>61</sup>	29.275 <sup>54</sup>	45.67 <sup>172</sup>	46.561 <sup>60</sup>	61.68 <sup>164</sup>	38.32 <sup>8</sup>	72.80 <sup>271</sup>
März 1.5	26.259 <sup>1</sup>	53.36 <sup>82</sup>	29.329 <sup>9</sup>	47.39 <sup>185</sup>	46.621 <sup>1</sup>	63.32 <sup>180</sup>	38.40 <sup>3</sup>	75.51 <sup>271</sup>
11.5	26.258 <sup>46</sup>	54.18 <sup>96</sup>	29.320 <sup>66</sup>	49.24 <sup>190</sup>	46.620 <sup>57</sup>	65.12 <sup>185</sup>	38.37 <sup>14</sup>	78.28 <sup>271</sup>
21.4	26.212 <sup>83</sup>	55.14 <sup>103</sup>	29.254 <sup>114</sup>	51.14 <sup>186</sup>	46.563 <sup>105</sup>	66.97 <sup>183</sup>	38.23 <sup>22</sup>	80.99 <sup>254</sup>
31.4	26.129 <sup>113</sup>	56.17 <sup>107</sup>	29.140 <sup>152</sup>	53.00 <sup>174</sup>	46.458 <sup>142</sup>	68.80 <sup>174</sup>	38.01 <sup>30</sup>	83.53 <sup>227</sup>
Apr. 10.4	26.016 <sup>132</sup>	57.24 <sup>103</sup>	28.988 <sup>181</sup>	54.74 <sup>155</sup>	46.316 <sup>171</sup>	70.54 <sup>156</sup>	37.71 <sup>35</sup>	85.80 <sup>193</sup>
20.4	25.884 <sup>145</sup>	58.27 <sup>97</sup>	28.807 <sup>198</sup>	56.29 <sup>131</sup>	46.145 <sup>189</sup>	72.10 <sup>133</sup>	37.36 <sup>40</sup>	87.73 <sup>152</sup>
30.3	25.739 <sup>150</sup>	59.24 <sup>86</sup>	28.609 <sup>206</sup>	57.60 <sup>102</sup>	45.956 <sup>198</sup>	73.43 <sup>107</sup>	36.96 <sup>42</sup>	89.25 <sup>106</sup>
Mai 10.3	25.589 <sup>148</sup>	60.10 <sup>73</sup>	28.403 <sup>204</sup>	58.62 <sup>71</sup>	45.758 <sup>197</sup>	74.50 <sup>76</sup>	36.54 <sup>42</sup>	90.31 <sup>58</sup>
20.3	25.441 <sup>139</sup>	60.83 <sup>58</sup>	28.199 <sup>194</sup>	59.33 <sup>37</sup>	45.561 <sup>189</sup>	75.26 <sup>44</sup>	36.12 <sup>41</sup>	90.89 <sup>8</sup>
30.2	25.302 <sup>127</sup>	61.41 <sup>42</sup>	28.005 <sup>179</sup>	59.70 <sup>4</sup>	45.372 <sup>175</sup>	75.70 <sup>11</sup>	35.71 <sup>39</sup>	90.97 <sup>41</sup>
Juni 9.2	25.175 <sup>110</sup>	61.83 <sup>24</sup>	27.826 <sup>157</sup>	59.74 <sup>29</sup>	45.197 <sup>154</sup>	75.81 <sup>21</sup>	35.32 <sup>36</sup>	90.56 <sup>89</sup>
19.2	25.065 <sup>90</sup>	62.07 <sup>6</sup>	27.669 <sup>131</sup>	59.45 <sup>62</sup>	45.043 <sup>130</sup>	75.60 <sup>52</sup>	34.96 <sup>30</sup>	89.67 <sup>133</sup>
29.2	24.975 <sup>69</sup>	62.13 <sup>10</sup>	27.538 <sup>102</sup>	58.83 <sup>92</sup>	44.913 <sup>103</sup>	75.08 <sup>84</sup>	34.66 <sup>26</sup>	88.34 <sup>174</sup>
Juli 9.1	24.906 <sup>45</sup>	62.03 <sup>29</sup>	27.436 <sup>70</sup>	57.91 <sup>120</sup>	44.810 <sup>72</sup>	74.24 <sup>111</sup>	34.40 <sup>19</sup>	86.60 <sup>212</sup>
19.1	24.861 <sup>20</sup>	61.74 <sup>47</sup>	27.366 <sup>37</sup>	56.71 <sup>146</sup>	44.738 <sup>40</sup>	73.13 <sup>137</sup>	34.21 <sup>13</sup>	84.48 <sup>243</sup>
29.1	24.841 <sup>7</sup>	61.27 <sup>64</sup>	27.329 <sup>1</sup>	55.25 <sup>169</sup>	44.698 <sup>7</sup>	71.76 <sup>161</sup>	34.08 <sup>7</sup>	82.05 <sup>269</sup>
Aug. 8.1	24.848 <sup>35</sup>	60.63 <sup>81</sup>	27.328 <sup>36</sup>	53.56 <sup>190</sup>	44.691 <sup>29</sup>	70.15 <sup>182</sup>	34.01 <sup>1</sup>	79.36 <sup>291</sup>
18.0	24.883 <sup>65</sup>	59.82 <sup>99</sup>	27.364 <sup>74</sup>	51.66 <sup>207</sup>	44.720 <sup>66</sup>	68.33 <sup>200</sup>	34.02 <sup>8</sup>	76.45 <sup>306</sup>
28.0	24.948 <sup>96</sup>	58.83 <sup>117</sup>	27.438 <sup>113</sup>	49.59 <sup>221</sup>	44.786 <sup>104</sup>	66.33 <sup>216</sup>	34.10 <sup>16</sup>	73.39 <sup>316</sup>
Sept. 7.0	25.044 <sup>128</sup>	57.66 <sup>133</sup>	27.551 <sup>154</sup>	47.38 <sup>232</sup>	44.890 <sup>145</sup>	64.17 <sup>227</sup>	34.26 <sup>23</sup>	70.23 <sup>319</sup>
16.9	25.172 <sup>162</sup>	56.33 <sup>150</sup>	27.705 <sup>196</sup>	45.06 <sup>240</sup>	45.035 <sup>185</sup>	61.90 <sup>236</sup>	34.49 <sup>30</sup>	67.04 <sup>316</sup>
26.9	25.334 <sup>197</sup>	54.83 <sup>164</sup>	27.901 <sup>237</sup>	42.66 <sup>242</sup>	45.220 <sup>227</sup>	59.54 <sup>240</sup>	34.79 <sup>38</sup>	63.88 <sup>306</sup>
Okt. 6.9	25.531 <sup>231</sup>	53.19 <sup>176</sup>	28.138 <sup>279</sup>	40.24 <sup>240</sup>	45.447 <sup>268</sup>	57.14 <sup>240</sup>	35.17 <sup>45</sup>	60.82 <sup>290</sup>
16.9	25.762 <sup>264</sup>	51.43 <sup>186</sup>	28.417 <sup>317</sup>	37.84 <sup>233</sup>	45.715 <sup>307</sup>	54.74 <sup>235</sup>	35.62 <sup>51</sup>	57.92 <sup>266</sup>
26.8	26.026 <sup>294</sup>	49.57 <sup>191</sup>	28.734 <sup>353</sup>	35.51 <sup>220</sup>	46.022 <sup>342</sup>	52.39 <sup>223</sup>	36.13 <sup>57</sup>	55.26 <sup>237</sup>
Nov. 5.8	26.320 <sup>318</sup>	47.66 <sup>192</sup>	29.087 <sup>382</sup>	33.31 <sup>201</sup>	46.364 <sup>372</sup>	50.16 <sup>206</sup>	36.70 <sup>62</sup>	52.89 <sup>199</sup>
15.8	26.638 <sup>336</sup>	45.74 <sup>186</sup>	29.469 <sup>403</sup>	31.30 <sup>176</sup>	46.736 <sup>394</sup>	48.10 <sup>182</sup>	37.32 <sup>65</sup>	50.90 <sup>155</sup>
25.8	26.974 <sup>345</sup>	43.88 <sup>175</sup>	29.872 <sup>414</sup>	29.54 <sup>145</sup>	47.130 <sup>407</sup>	46.28 <sup>153</sup>	37.97 <sup>67</sup>	49.35 <sup>107</sup>
Dez. 5.7	27.319 <sup>345</sup>	42.13 <sup>157</sup>	30.286 <sup>414</sup>	28.09 <sup>108</sup>	47.537 <sup>407</sup>	44.75 <sup>117</sup>	38.64 <sup>67</sup>	48.28 <sup>53</sup>
15.7	27.664 <sup>333</sup>	40.56 <sup>134</sup>	30.700 <sup>400</sup>	27.01 <sup>68</sup>	47.944 <sup>395</sup>	43.58 <sup>79</sup>	39.31 <sup>65</sup>	47.75 <sup>2</sup>
25.7	27.997 <sup>311</sup>	39.22 <sup>107</sup>	31.100 <sup>374</sup>	26.33 <sup>25</sup>	48.339 <sup>370</sup>	42.79 <sup>35</sup>	39.96 <sup>61</sup>	47.77 <sup>58</sup>
35.6	28.308	38.15	31.474	26.08	48.709	42.44	40.57	48.35
Mittl. Ort	24.686	65.88	27.627	57.95	44.941	74.17	35.93	83.46
sec δ, tg δ	1.093	+0.441	1.374	+0.942	1.343	+0.897	2.454	+2.242



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	389) $\mu$ Hydrae		391) $J$ Carinae		390) $\beta$ Leonis min.		392) Lac. $\alpha$ Antliae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	10 <sup>h</sup> 22 <sup>m</sup>	-16° 26'	10 <sup>h</sup> 22 <sup>m</sup>	-73° 38'	10 <sup>h</sup> 23 <sup>m</sup>	+37° 5'	10 <sup>h</sup> 23 <sup>m</sup>	-30° 40'
Jan. 0.7	22.834 <sub>270</sub>	34.04 <sub>251</sub>	56.80 <sub>62</sub>	9.18 <sub>302</sub>	26.606 <sub>331</sub>	53.41 <sub>36</sub>	38.718 <sub>284</sub>	27.04 <sub>285</sub>
10.6	23.104 <sub>232</sub>	36.55 <sub>249</sub>	57.42 <sub>51</sub>	12.20 <sub>339</sub>	26.937 <sub>290</sub>	53.05 <sub>5</sub>	39.002 <sub>242</sub>	29.89 <sub>295</sub>
20.6	23.336 <sub>188</sub>	39.04 <sub>240</sub>	57.93 <sub>37</sub>	15.59 <sub>364</sub>	27.227 <sub>241</sub>	53.10 <sub>45</sub>	39.244 <sub>195</sub>	32.84 <sub>297</sub>
30.6	23.524 <sub>141</sub>	41.44 <sub>227</sub>	58.30 <sub>24</sub>	19.23 <sub>381</sub>	27.468 <sub>185</sub>	53.55 <sub>81</sub>	39.439 <sub>143</sub>	35.81 <sub>291</sub>
Feb. 9.5	23.665 <sub>92</sub>	43.71 <sub>207</sub>	58.54 <sub>11</sub>	23.04 <sub>386</sub>	27.653 <sub>125</sub>	54.36 <sub>113</sub>	39.582 <sub>91</sub>	38.72 <sub>278</sub>
19.5	23.757	45.78 <sub>184</sub>	58.65	26.90 <sub>383</sub>	27.778	55.49 <sub>138</sub>	39.673 <sub>39</sub>	41.50 <sub>258</sub>
März 1.5	23.801	47.62 <sub>159</sub>	58.61 <sub>4</sub>	30.73 <sub>369</sub>	27.843 <sub>8</sub>	56.87 <sub>155</sub>	39.712 <sub>9</sub>	44.08 <sub>234</sub>
11.5	23.801	49.21 <sub>132</sub>	58.45 <sub>16</sub>	34.42 <sub>349</sub>	27.851 <sub>—</sub>	58.42 <sub>165</sub>	39.703 <sub>53</sub>	46.42 <sub>207</sub>
21.4	23.760 <sub>74</sub>	50.53 <sub>104</sub>	58.18 <sub>27</sub>	37.91 <sub>322</sub>	27.806 <sub>45</sub>	60.07 <sub>167</sub>	39.650 <sub>88</sub>	48.49 <sub>175</sub>
31.4	23.686 <sub>100</sub>	51.57 <sub>77</sub>	57.79 <sub>47</sub>	41.13 <sub>286</sub>	27.717 <sub>125</sub>	61.74 <sub>160</sub>	39.562 <sub>118</sub>	50.24 <sub>143</sub>
Apr. 10.4	23.586 <sub>120</sub>	52.34 <sub>49</sub>	57.32 <sub>55</sub>	43.99 <sub>246</sub>	27.592 <sub>152</sub>	63.34 <sub>148</sub>	39.444 <sub>139</sub>	51.67 <sub>108</sub>
20.4	23.466 <sub>132</sub>	52.83 <sub>22</sub>	56.77 <sub>61</sub>	46.45 <sub>201</sub>	27.440 <sub>169</sub>	64.82 <sub>130</sub>	39.305 <sub>155</sub>	52.75 <sub>73</sub>
30.3	23.334 <sub>139</sub>	53.05 <sub>3</sub>	56.16 <sub>65</sub>	48.46 <sub>152</sub>	27.271 <sub>178</sub>	66.12 <sub>107</sub>	39.150 <sub>163</sub>	53.48 <sub>36</sub>
Mai 10.3	23.195 <sub>140</sub>	53.02 <sub>29</sub>	55.51 <sub>69</sub>	49.98 <sub>100</sub>	27.093 <sub>178</sub>	67.19 <sub>82</sub>	38.987 <sub>166</sub>	53.84 <sub>1</sub>
20.3	23.055 <sub>135</sub>	52.73 <sub>52</sub>	54.82 <sub>69</sub>	50.98 <sub>46</sub>	26.915 <sub>172</sub>	68.01 <sub>53</sub>	38.821 <sub>163</sub>	53.85 <sub>34</sub>
30.2	22.920 <sub>128</sub>	52.21 <sub>75</sub>	54.13 <sub>69</sub>	51.44 <sub>9</sub>	26.743 <sub>159</sub>	68.54 <sub>25</sub>	38.658 <sub>156</sub>	53.51 <sub>68</sub>
Juni 9.2	22.792 <sub>115</sub>	51.46 <sub>94</sub>	53.44 <sub>66</sub>	51.35 <sub>62</sub>	26.584 <sub>141</sub>	68.79 <sub>5</sub>	38.502 <sub>145</sub>	52.83 <sub>101</sub>
19.2	22.677 <sub>102</sub>	50.52 <sub>112</sub>	52.78 <sub>63</sub>	50.73 <sub>115</sub>	26.443 <sub>121</sub>	68.74 <sub>33</sub>	38.357 <sub>130</sub>	51.82 <sub>129</sub>
29.2	22.575 <sub>84</sub>	49.40 <sub>127</sub>	52.15 <sub>58</sub>	49.58 <sub>164</sub>	26.322 <sub>96</sub>	68.41 <sub>61</sub>	38.227 <sub>112</sub>	50.53 <sub>156</sub>
Juli 9.1	22.491 <sub>64</sub>	48.13 <sub>137</sub>	51.57 <sub>50</sub>	47.94 <sub>208</sub>	26.226 <sub>69</sub>	67.80 <sub>88</sub>	38.115 <sub>90</sub>	48.97 <sub>177</sub>
19.1	22.427 <sub>43</sub>	46.76 <sub>144</sub>	51.07 <sub>41</sub>	45.86 <sub>247</sub>	26.157 <sub>40</sub>	66.02 <sub>112</sub>	38.025 <sub>65</sub>	47.20 <sub>194</sub>
29.1	22.384 <sub>19</sub>	45.32 <sub>147</sub>	50.66 <sub>31</sub>	43.39 <sub>278</sub>	26.117 <sub>10</sub>	65.80 <sub>135</sub>	37.960 <sub>38</sub>	45.26 <sub>203</sub>
Aug. 8.1	22.365 <sub>9</sub>	43.85 <sub>142</sub>	50.35 <sub>20</sub>	40.61 <sub>300</sub>	26.107 <sub>22</sub>	64.45 <sub>157</sub>	37.922 <sub>6</sub>	43.23 <sub>206</sub>
18.0	22.374 <sub>37</sub>	42.43 <sub>133</sub>	50.15 <sub>8</sub>	37.61 <sub>312</sub>	26.129 <sub>57</sub>	62.88 <sub>176</sub>	37.916 <sub>28</sub>	41.17 <sub>202</sub>
28.0	22.411 <sub>70</sub>	41.10 <sub>116</sub>	50.07 <sub>6</sub>	34.49 <sub>314</sub>	26.186 <sub>92</sub>	61.12 <sub>192</sub>	37.944 <sub>65</sub>	39.15 <sub>190</sub>
Sept. 7.0	22.481 <sub>103</sub>	39.94 <sub>95</sub>	50.13 <sub>19</sub>	31.35 <sub>304</sub>	26.278 <sub>130</sub>	59.20 <sub>207</sub>	38.009 <sub>104</sub>	37.25 <sub>168</sub>
16.9	22.584 <sub>139</sub>	38.99 <sub>68</sub>	50.32 <sub>34</sub>	28.31 <sub>282</sub>	26.408 <sub>168</sub>	57.13 <sub>218</sub>	38.113 <sub>145</sub>	35.57 <sub>140</sub>
26.9	22.723 <sub>175</sub>	38.31 <sub>34</sub>	50.66 <sub>45</sub>	25.49 <sub>249</sub>	26.576 <sub>207</sub>	54.95 <sub>226</sub>	38.258 <sub>187</sub>	34.17 <sub>105</sub>
Okt. 6.9	22.898 <sub>211</sub>	37.97 <sub>2</sub>	51.11 <sub>58</sub>	23.00 <sub>206</sub>	26.783 <sub>248</sub>	52.69 <sub>230</sub>	38.445 <sub>226</sub>	33.12 <sub>63</sub>
16.9	23.109 <sub>245</sub>	37.99 <sub>41</sub>	51.69 <sub>69</sub>	20.94 <sub>154</sub>	27.031 <sub>285</sub>	50.39 <sub>228</sub>	38.671 <sub>265</sub>	32.49 <sub>16</sub>
26.8	23.354 <sub>276</sub>	38.40 <sub>82</sub>	52.38 <sub>76</sub>	19.40 <sub>95</sub>	27.316 <sub>319</sub>	48.11 <sub>222</sub>	38.936 <sub>298</sub>	32.33 <sub>32</sub>
Nov. 5.8	23.630 <sub>300</sub>	39.22 <sub>122</sub>	53.14 <sub>82</sub>	18.45 <sub>31</sub>	27.635 <sub>349</sub>	45.89 <sub>210</sub>	39.234 <sub>324</sub>	32.65 <sub>83</sub>
15.8	23.930 <sub>316</sub>	40.44 <sub>158</sub>	53.96 <sub>85</sub>	18.14 <sub>35</sub>	27.984 <sub>372</sub>	43.79 <sub>191</sub>	39.558 <sub>342</sub>	33.48 <sub>132</sub>
25.8	24.246 <sub>326</sub>	42.02 <sub>189</sub>	54.81 <sub>86</sub>	18.49 <sub>102</sub>	28.356 <sub>383</sub>	41.88 <sub>166</sub>	39.900 <sub>349</sub>	34.80 <sub>177</sub>
Dez. 5.7	24.572 <sub>324</sub>	43.91 <sub>217</sub>	55.67 <sub>82</sub>	19.51 <sub>165</sub>	28.739 <sub>387</sub>	40.22 <sub>136</sub>	40.249 <sub>345</sub>	36.57 <sub>216</sub>
15.7	24.896 <sub>311</sub>	46.08 <sub>235</sub>	56.49 <sub>76</sub>	21.16 <sub>223</sub>	29.126 <sub>376</sub>	38.86 <sub>100</sub>	40.594 <sub>331</sub>	38.73 <sub>249</sub>
25.7	25.207 <sub>288</sub>	48.43 <sub>246</sub>	57.25 <sub>68</sub>	23.39 <sub>275</sub>	29.502 <sub>353</sub>	37.86 <sub>61</sub>	40.925 <sub>304</sub>	41.22 <sub>274</sub>
35.6	25.495	50.89	57.93	26.14	29.855	37.25	41.229	43.96
Mittl. Ort	21.957	34.00	52.16	21.65	26.218	68.35	37.576	31.08
sec $\delta$ , tg $\delta$	1.043	-0.295	3.550	-3.406	1.254	+0.756	1.163	-0.593

Mittlere Zeit Greenw.	393) s Carinae		394) 36 Ursae maj.		395) 9 II. Draconis		404) 33 Sextantis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	10 <sup>h</sup> 25 <sup>m</sup>	-58° 20'	10 <sup>h</sup> 25 <sup>m</sup>	+56° 21'	10 <sup>h</sup> 28 <sup>m</sup>	+76° 6'	10 <sup>h</sup> 37 <sup>m</sup>	-1° 20'
Jan. 0.7	5.207 <sup>387</sup>	34.88 <sup>311</sup>	42.983 <sup>445</sup>	75.01 <sup>45</sup>	36.08 <sup>92</sup>	16.90 <sup>114</sup>	29.795 <sup>277</sup>	15.03 <sup>202</sup>
10.6	5.594 <sup>323</sup>	37.99 <sup>341</sup>	43.428 <sup>394</sup>	75.46 <sup>96</sup>	37.00 <sup>81</sup>	18.04 <sup>170</sup>	30.072 <sup>245</sup>	17.05 <sup>188</sup>
20.6	5.917 <sup>250</sup>	41.40 <sup>359</sup>	43.818 <sup>320</sup>	76.42 <sup>141</sup>	37.81 <sup>66</sup>	19.74 <sup>217</sup>	30.317 <sup>204</sup>	18.93 <sup>170</sup>
30.6	6.167 <sup>174</sup>	44.99 <sup>369</sup>	44.142 <sup>247</sup>	77.83 <sup>180</sup>	38.47 <sup>49</sup>	21.91 <sup>255</sup>	30.521 <sup>160</sup>	20.63 <sup>147</sup>
Feb. 9.6	6.341 <sup>94</sup>	48.68 <sup>368</sup>	44.389 <sup>165</sup>	79.63 <sup>212</sup>	38.96 <sup>32</sup>	24.46 <sup>284</sup>	30.681 <sup>112</sup>	22.10 <sup>123</sup>
19.5	6.435 <sup>18</sup>	52.36 <sup>360</sup>	44.554 <sup>80</sup>	81.75 <sup>233</sup>	39.28 <sup>14</sup>	27.30 <sup>300</sup>	30.793 <sup>65</sup>	23.33 <sup>97</sup>
März 1.5	6.453 <sup>55</sup>	55.96 <sup>342</sup>	44.634 <sup>1</sup>	84.08 <sup>244</sup>	39.42 <sup>5</sup>	30.30 <sup>305</sup>	30.858 <sup>21</sup>	24.30 <sup>71</sup>
11.5	6.398 <sup>120</sup>	59.38 <sup>317</sup>	44.633 <sup>77</sup>	86.52 <sup>245</sup>	39.37 <sup>22</sup>	33.35 <sup>296</sup>	30.879 <sup>19</sup>	25.01 <sup>48</sup>
21.4	6.278 <sup>178</sup>	62.55 <sup>285</sup>	44.556 <sup>143</sup>	88.97 <sup>236</sup>	39.15 <sup>38</sup>	36.31 <sup>276</sup>	30.860 <sup>53</sup>	25.49 <sup>25</sup>
31.4	6.100 <sup>225</sup>	65.40 <sup>250</sup>	44.413 <sup>198</sup>	91.33 <sup>216</sup>	38.77 <sup>51</sup>	39.07 <sup>246</sup>	30.807 <sup>81</sup>	25.74 <sup>5</sup>
Apr. 10.4	5.875 <sup>265</sup>	67.90 <sup>209</sup>	44.215 <sup>241</sup>	93.49 <sup>190</sup>	38.26 <sup>62</sup>	41.53 <sup>206</sup>	30.726 <sup>101</sup>	25.79 <sup>13</sup>
20.4	5.610 <sup>294</sup>	69.99 <sup>164</sup>	43.974 <sup>270</sup>	95.39 <sup>156</sup>	37.64 <sup>70</sup>	43.59 <sup>161</sup>	30.625 <sup>116</sup>	25.66 <sup>29</sup>
30.3	5.316 <sup>315</sup>	71.63 <sup>116</sup>	43.704 <sup>286</sup>	96.95 <sup>117</sup>	36.94 <sup>75</sup>	45.20 <sup>111</sup>	30.509 <sup>123</sup>	25.37 <sup>41</sup>
Mai 10.3	5.001 <sup>326</sup>	72.79 <sup>68</sup>	43.418 <sup>290</sup>	98.12 <sup>76</sup>	36.19 <sup>77</sup>	46.31 <sup>56</sup>	30.386 <sup>125</sup>	24.96 <sup>53</sup>
20.3	4.675 <sup>328</sup>	73.47 <sup>16</sup>	43.128 <sup>283</sup>	98.88 <sup>32</sup>	35.42 <sup>76</sup>	46.87 <sup>2</sup>	30.261 <sup>122</sup>	24.43 <sup>62</sup>
30.3	4.347 <sup>323</sup>	73.63 <sup>33</sup>	42.845 <sup>267</sup>	99.20 <sup>11</sup>	34.66 <sup>74</sup>	46.89 <sup>53</sup>	30.139 <sup>117</sup>	23.81 <sup>69</sup>
Juni 9.2	4.024 <sup>310</sup>	73.30 <sup>83</sup>	42.578 <sup>242</sup>	99.09 <sup>55</sup>	33.92 <sup>68</sup>	46.36 <sup>104</sup>	30.022 <sup>106</sup>	23.12 <sup>75</sup>
19.2	3.714 <sup>289</sup>	72.47 <sup>130</sup>	42.336 <sup>211</sup>	98.54 <sup>96</sup>	33.24 <sup>61</sup>	45.32 <sup>154</sup>	29.916 <sup>94</sup>	22.37 <sup>79</sup>
29.2	3.425 <sup>260</sup>	71.17 <sup>174</sup>	42.125 <sup>174</sup>	97.58 <sup>134</sup>	32.63 <sup>52</sup>	43.78 <sup>199</sup>	29.822 <sup>79</sup>	21.58 <sup>80</sup>
Juli 9.1	3.165 <sup>224</sup>	69.43 <sup>212</sup>	41.951 <sup>133</sup>	96.24 <sup>169</sup>	32.11 <sup>42</sup>	41.79 <sup>238</sup>	29.743 <sup>61</sup>	20.78 <sup>80</sup>
19.1	2.941 <sup>181</sup>	67.31 <sup>244</sup>	41.818 <sup>89</sup>	94.55 <sup>201</sup>	31.69 <sup>31</sup>	39.41 <sup>272</sup>	29.682 <sup>43</sup>	19.98 <sup>76</sup>
29.1	2.760 <sup>130</sup>	64.87 <sup>270</sup>	41.729 <sup>41</sup>	92.54 <sup>229</sup>	31.38 <sup>20</sup>	36.69 <sup>301</sup>	29.639 <sup>20</sup>	19.22 <sup>70</sup>
Aug. 8.1	2.630 <sup>72</sup>	62.17 <sup>285</sup>	41.688 <sup>7</sup>	90.25 <sup>251</sup>	31.18 <sup>7</sup>	33.68 <sup>322</sup>	29.619 <sup>3</sup>	18.52 <sup>59</sup>
18.0	2.558 <sup>11</sup>	59.32 <sup>293</sup>	41.695 <sup>59</sup>	87.74 <sup>270</sup>	31.11 <sup>6</sup>	30.46 <sup>338</sup>	29.622 <sup>30</sup>	17.93 <sup>47</sup>
28.0	2.547 <sup>57</sup>	56.39 <sup>288</sup>	41.754 <sup>112</sup>	85.04 <sup>282</sup>	31.17 <sup>19</sup>	27.08 <sup>345</sup>	29.652 <sup>59</sup>	17.46 <sup>28</sup>
Sept. 7.0	2.604 <sup>127</sup>	53.51 <sup>275</sup>	41.866 <sup>167</sup>	82.22 <sup>291</sup>	31.36 <sup>31</sup>	23.63 <sup>348</sup>	29.711 <sup>90</sup>	17.18 <sup>8</sup>
17.0	2.731 <sup>198</sup>	50.76 <sup>249</sup>	42.033 <sup>221</sup>	79.31 <sup>294</sup>	31.67 <sup>45</sup>	20.15 <sup>341</sup>	29.801 <sup>124</sup>	17.10 <sup>17</sup>
26.9	2.929 <sup>268</sup>	48.27 <sup>214</sup>	42.254 <sup>277</sup>	76.37 <sup>290</sup>	32.12 <sup>57</sup>	16.74 <sup>328</sup>	29.925 <sup>158</sup>	17.27 <sup>44</sup>
Okt. 6.9	3.197 <sup>333</sup>	46.13 <sup>168</sup>	42.531 <sup>331</sup>	73.47 <sup>282</sup>	32.69 <sup>68</sup>	13.46 <sup>307</sup>	30.083 <sup>194</sup>	17.71 <sup>72</sup>
16.9	3.530 <sup>392</sup>	44.45 <sup>116</sup>	42.862 <sup>381</sup>	70.65 <sup>266</sup>	33.37 <sup>80</sup>	10.39 <sup>280</sup>	30.277 <sup>229</sup>	18.43 <sup>102</sup>
26.8	3.922 <sup>442</sup>	43.29 <sup>58</sup>	43.243 <sup>429</sup>	67.99 <sup>243</sup>	34.17 <sup>89</sup>	7.59 <sup>244</sup>	30.506 <sup>259</sup>	19.45 <sup>130</sup>
Nov. 5.8	4.364 <sup>478</sup>	42.71 <sup>5</sup>	43.672 <sup>468</sup>	65.56 <sup>214</sup>	35.06 <sup>97</sup>	5.15 <sup>201</sup>	30.765 <sup>287</sup>	20.75 <sup>156</sup>
15.8	4.842 <sup>499</sup>	42.76 <sup>69</sup>	44.140 <sup>497</sup>	63.42 <sup>178</sup>	36.03 <sup>104</sup>	3.14 <sup>153</sup>	31.052 <sup>306</sup>	22.31 <sup>179</sup>
25.8	5.341 <sup>504</sup>	43.45 <sup>131</sup>	44.637 <sup>515</sup>	61.64 <sup>136</sup>	37.07 <sup>107</sup>	1.61 <sup>99</sup>	31.358 <sup>319</sup>	24.10 <sup>195</sup>
Dez. 5.7	5.845 <sup>493</sup>	44.76 <sup>190</sup>	45.152 <sup>518</sup>	60.28 <sup>89</sup>	38.14 <sup>107</sup>	0.62 <sup>40</sup>	31.677 <sup>321</sup>	26.05 <sup>206</sup>
15.7	6.338 <sup>464</sup>	46.66 <sup>242</sup>	45.670 <sup>504</sup>	59.39 <sup>39</sup>	39.21 <sup>104</sup>	0.22 <sup>19</sup>	31.998 <sup>313</sup>	28.11 <sup>209</sup>
25.7	6.802 <sup>420</sup>	49.08 <sup>287</sup>	46.174 <sup>476</sup>	59.00 <sup>14</sup>	40.25 <sup>98</sup>	0.41 <sup>80</sup>	32.311 <sup>295</sup>	30.20 <sup>207</sup>
35.7	7.222	51.95	46.650	59.14	41.23	1.21	32.606	32.27
Mittl. Ort sec δ, tg δ	2.897 1.905	45.35 -1.622	42.664 1.806	93.54 +1.504	35.67 4.166	37.39 +4.044	29.190 1.000	11.13 -0.023

Mittlere Zeit Greenw.	406) $\delta$ Argus		407) $\alpha$ Leonis min.		408) $\mu$ Argus		409) $\iota$ Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	10 <sup>h</sup> 40 <sup>m</sup>	-63° 59'	10 <sup>h</sup> 41 <sup>m</sup>	+31° 4'	10 <sup>h</sup> 43 <sup>m</sup>	-49° 0'	10 <sup>h</sup> 45 <sup>m</sup>	+10° 56'
Jan. 0.7	15.07 <sup>47</sup>	13.90 <sup>296</sup>	35.594 <sup>324</sup>	64.71 <sup>76</sup>	28.753 <sup>353</sup>	37.19 <sup>296</sup>	13.138 <sup>290</sup>	63.33 <sup>159</sup>
10.6	15.54 <sup>39</sup>	16.86 <sup>330</sup>	35.918 <sup>288</sup>	63.95 <sup>37</sup>	29.106 <sup>305</sup>	40.15 <sup>321</sup>	13.428 <sup>259</sup>	61.74 <sup>135</sup>
20.6	15.93 <sup>32</sup>	20.16 <sup>356</sup>	36.206 <sup>245</sup>	63.58 <sup>1</sup>	29.411 <sup>248</sup>	43.36 <sup>339</sup>	13.687 <sup>219</sup>	60.39 <sup>107</sup>
30.6	16.25 <sup>22</sup>	23.72 <sup>371</sup>	36.451 <sup>193</sup>	63.59 <sup>39</sup>	29.659 <sup>186</sup>	46.75 <sup>346</sup>	13.906 <sup>173</sup>	59.32 <sup>79</sup>
Feb. 9.6	16.47 <sup>14</sup>	27.43 <sup>376</sup>	36.644 <sup>139</sup>	63.98 <sup>73</sup>	29.845 <sup>123</sup>	50.21 <sup>345</sup>	14.079 <sup>126</sup>	58.53 <sup>50</sup>
19.5	16.61 <sup>5</sup>	31.19 <sup>373</sup>	36.783 <sup>83</sup>	64.71 <sup>102</sup>	29.968 <sup>59</sup>	53.66 <sup>335</sup>	14.205 <sup>78</sup>	58.03 <sup>21</sup>
März 1.5	16.66 <sup>4</sup>	34.92 <sup>359</sup>	36.866 <sup>30</sup>	65.73 <sup>123</sup>	30.027 <sup>1</sup>	57.01 <sup>317</sup>	14.283 <sup>31</sup>	57.82 <sup>3</sup>
11.5	16.62 <sup>12</sup>	38.51 <sup>340</sup>	36.896 <sup>19</sup>	66.96 <sup>139</sup>	30.026 <sup>56</sup>	60.18 <sup>294</sup>	14.314 <sup>10</sup>	57.85 <sup>26</sup>
21.4	16.50 <sup>19</sup>	41.91 <sup>311</sup>	36.877 <sup>62</sup>	68.35 <sup>146</sup>	29.970 <sup>103</sup>	63.12 <sup>265</sup>	14.304 <sup>46</sup>	58.11 <sup>44</sup>
31.4	16.31 <sup>25</sup>	45.02 <sup>279</sup>	36.815 <sup>97</sup>	69.81 <sup>147</sup>	29.867 <sup>144</sup>	65.77 <sup>231</sup>	14.258 <sup>76</sup>	58.55 <sup>57</sup>
Apr. 10.4	16.06 <sup>30</sup>	47.81 <sup>239</sup>	36.718 <sup>124</sup>	71.28 <sup>141</sup>	29.723 <sup>178</sup>	68.08 <sup>193</sup>	14.182 <sup>98</sup>	59.12 <sup>66</sup>
20.4	15.76 <sup>34</sup>	50.20 <sup>196</sup>	36.594 <sup>142</sup>	72.69 <sup>129</sup>	29.545 <sup>203</sup>	70.01 <sup>153</sup>	14.084 <sup>114</sup>	59.78 <sup>73</sup>
30.3	15.42 <sup>37</sup>	52.16 <sup>149</sup>	36.452 <sup>153</sup>	73.98 <sup>113</sup>	29.342 <sup>221</sup>	71.54 <sup>109</sup>	13.970 <sup>123</sup>	60.51 <sup>74</sup>
Mai 10.3	15.05 <sup>40</sup>	53.65 <sup>99</sup>	36.299 <sup>157</sup>	75.11 <sup>94</sup>	29.121 <sup>233</sup>	72.63 <sup>64</sup>	13.847 <sup>126</sup>	61.25 <sup>74</sup>
20.3	14.65 <sup>40</sup>	54.64 <sup>48</sup>	36.142 <sup>154</sup>	76.05 <sup>71</sup>	28.888 <sup>237</sup>	73.27 <sup>18</sup>	13.721 <sup>124</sup>	61.99 <sup>71</sup>
30.3	14.25 <sup>40</sup>	55.12 <sup>4</sup>	35.988 <sup>146</sup>	76.76 <sup>47</sup>	28.651 <sup>235</sup>	73.45 <sup>27</sup>	13.597 <sup>118</sup>	62.70 <sup>66</sup>
Juni 9.2	13.85 <sup>39</sup>	55.08 <sup>56</sup>	35.842 <sup>133</sup>	77.23 <sup>22</sup>	28.416 <sup>228</sup>	73.18 <sup>73</sup>	13.479 <sup>108</sup>	63.36 <sup>60</sup>
19.2	13.46 <sup>38</sup>	54.52 <sup>107</sup>	35.709 <sup>117</sup>	77.45 <sup>4</sup>	28.188 <sup>216</sup>	72.45 <sup>115</sup>	13.371 <sup>97</sup>	63.96 <sup>52</sup>
29.2	13.08 <sup>35</sup>	53.45 <sup>153</sup>	35.592 <sup>97</sup>	77.41 <sup>29</sup>	27.972 <sup>196</sup>	71.30 <sup>154</sup>	13.274 <sup>81</sup>	64.48 <sup>42</sup>
Juli 9.1	12.73 <sup>30</sup>	51.92 <sup>197</sup>	35.495 <sup>76</sup>	77.12 <sup>54</sup>	27.776 <sup>171</sup>	69.76 <sup>190</sup>	13.193 <sup>64</sup>	64.90 <sup>32</sup>
19.1	12.43 <sup>26</sup>	49.95 <sup>233</sup>	35.419 <sup>52</sup>	76.58 <sup>77</sup>	27.605 <sup>142</sup>	67.86 <sup>220</sup>	13.129 <sup>45</sup>	65.22 <sup>20</sup>
29.1	12.17 <sup>20</sup>	47.62 <sup>264</sup>	35.367 <sup>25</sup>	75.81 <sup>101</sup>	27.463 <sup>106</sup>	65.66 <sup>242</sup>	13.084 <sup>24</sup>	65.42 <sup>6</sup>
Aug. 8.1	11.97 <sup>13</sup>	44.98 <sup>285</sup>	35.342 <sup>2</sup>	74.80 <sup>122</sup>	27.357 <sup>64</sup>	63.24 <sup>258</sup>	13.060 <sup>0</sup>	65.48 <sup>10</sup>
18.0	11.84 <sup>6</sup>	42.13 <sup>298</sup>	35.344 <sup>33</sup>	73.58 <sup>144</sup>	27.293 <sup>18</sup>	60.66 <sup>264</sup>	13.060 <sup>27</sup>	65.38 <sup>26</sup>
28.0	11.78 <sup>2</sup>	39.15 <sup>300</sup>	35.377 <sup>67</sup>	72.14 <sup>162</sup>	27.275 <sup>33</sup>	58.02 <sup>261</sup>	13.087 <sup>55</sup>	65.12 <sup>46</sup>
Sept. 7.0	11.80 <sup>11</sup>	36.15 <sup>291</sup>	35.444 <sup>101</sup>	70.52 <sup>181</sup>	27.308 <sup>88</sup>	55.41 <sup>247</sup>	13.142 <sup>86</sup>	64.66 <sup>66</sup>
17.0	11.91 <sup>20</sup>	33.24 <sup>270</sup>	35.545 <sup>138</sup>	68.71 <sup>196</sup>	27.396 <sup>145</sup>	52.94 <sup>225</sup>	13.228 <sup>120</sup>	64.00 <sup>88</sup>
26.9	12.11 <sup>28</sup>	30.54 <sup>239</sup>	35.683 <sup>177</sup>	66.75 <sup>208</sup>	27.541 <sup>202</sup>	50.69 <sup>192</sup>	13.348 <sup>155</sup>	63.12 <sup>110</sup>
Okf. 6.9	12.39 <sup>36</sup>	28.15 <sup>198</sup>	35.860 <sup>215</sup>	64.67 <sup>219</sup>	27.743 <sup>258</sup>	48.77 <sup>150</sup>	13.503 <sup>191</sup>	62.02 <sup>132</sup>
16.9	12.75 <sup>44</sup>	26.17 <sup>148</sup>	36.075 <sup>254</sup>	62.48 <sup>223</sup>	28.001 <sup>310</sup>	47.27 <sup>100</sup>	13.694 <sup>226</sup>	60.70 <sup>154</sup>
26.8	13.19 <sup>50</sup>	24.69 <sup>90</sup>	36.329 <sup>289</sup>	60.25 <sup>224</sup>	28.311 <sup>356</sup>	46.27 <sup>46</sup>	13.920 <sup>259</sup>	59.16 <sup>171</sup>
Nov. 5.8	13.69 <sup>55</sup>	23.79 <sup>28</sup>	36.618 <sup>321</sup>	58.01 <sup>219</sup>	28.667 <sup>391</sup>	45.81 <sup>12</sup>	14.179 <sup>287</sup>	57.45 <sup>186</sup>
15.8	14.24 <sup>58</sup>	23.51 <sup>36</sup>	36.939 <sup>345</sup>	55.82 <sup>207</sup>	29.058 <sup>415</sup>	45.93 <sup>71</sup>	14.466 <sup>310</sup>	55.59 <sup>195</sup>
25.8	14.82 <sup>59</sup>	23.87 <sup>101</sup>	37.284 <sup>360</sup>	53.75 <sup>189</sup>	29.473 <sup>427</sup>	46.64 <sup>130</sup>	14.776 <sup>324</sup>	53.64 <sup>199</sup>
Dez. 5.7	15.41 <sup>58</sup>	24.88 <sup>162</sup>	37.644 <sup>367</sup>	51.86 <sup>164</sup>	29.900 <sup>425</sup>	47.94 <sup>184</sup>	15.100 <sup>329</sup>	51.65 <sup>196</sup>
15.7	15.99 <sup>55</sup>	26.50 <sup>219</sup>	38.011 <sup>360</sup>	50.22 <sup>134</sup>	30.325 <sup>408</sup>	49.78 <sup>233</sup>	15.429 <sup>323</sup>	49.69 <sup>187</sup>
25.7	16.54 <sup>50</sup>	28.69 <sup>269</sup>	38.371 <sup>343</sup>	48.88 <sup>100</sup>	30.733 <sup>377</sup>	52.11 <sup>273</sup>	15.752 <sup>307</sup>	47.82 <sup>171</sup>
35.7	17.04	31.38	38.714	47.88	31.110	54.84	16.059	46.11
Mittl. Ort see $\delta$ , tg $\delta$	12.37 2.280	26.53 -2.049	35.294 1.168	77.93 +0.603	27.135 1.525	47.19 -1.151	12.699 1.019	70.75 +0.193



Mittlere Zeit Greenw.†	415) $\iota$ Velorum		416) $\beta$ Ursae maj.		417) $\alpha$ Ursae maj.		418) $\gamma$ Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$10^h 56^m$	$-41^\circ 48'$	$10^h 57^m$	$+56^\circ 47'$	$10^h 58^m$	$+62^\circ 9'$	$11^h 1^m$	$+7^\circ 44'$
Jan. 0.7	38.324 <sub>337</sub>	36.34 <sub>282</sub>	12.369 <sub>474</sub>	25.23 <sub>12</sub>	59.31 <sub>54</sub>	41.97 <sub>29</sub>	3.169 <sub>295</sub>	63.51 <sub>175</sub>
10.6	38.661 <sub>296</sub>	39.16 <sub>304</sub>	12.843 <sub>429</sub>	25.35 <sub>66</sub>	59.85 <sub>49</sub>	42.26 <sub>85</sub>	3.464 <sub>265</sub>	61.76 <sub>154</sub>
20.6	38.957 <sub>247</sub>	42.20 <sub>319</sub>	13.272 <sub>369</sub>	26.01 <sub>116</sub>	60.34 <sub>42</sub>	43.11 <sub>137</sub>	3.729 <sub>228</sub>	60.22 <sub>129</sub>
30.6	39.204 <sub>193</sub>	45.39 <sub>323</sub>	13.641 <sub>298</sub>	27.17 <sub>163</sub>	60.76 <sub>35</sub>	44.48 <sub>184</sub>	3.957 <sub>185</sub>	58.93 <sub>100</sub>
Feb. 9.6	39.397 <sub>137</sub>	48.62 <sub>320</sub>	13.939 <sub>219</sub>	28.80 <sub>200</sub>	61.11 <sub>25</sub>	46.32 <sub>222</sub>	4.142 <sub>139</sub>	57.93 <sub>72</sub>
19.5	39.534 <sub>80</sub>	51.82 <sub>309</sub>	14.158 <sub>136</sub>	30.80 <sub>229</sub>	61.36 <sub>15</sub>	48.54 <sub>250</sub>	4.281 <sub>92</sub>	57.21 <sub>44</sub>
März 1.5	39.614 <sub>26</sub>	54.91 <sub>292</sub>	14.294 <sub>54</sub>	33.09 <sub>248</sub>	61.51 <sub>6</sub>	51.04 <sub>267</sub>	4.373 <sub>46</sub>	56.77 <sub>17</sub>
11.5	39.640 <sub>23</sub>	57.83 <sub>269</sub>	14.348 <sub>24</sub>	35.57 <sub>255</sub>	61.57 <sub>4</sub>	53.71 <sub>272</sub>	4.419 <sub>6</sub>	56.60 <sub>6</sub>
21.5	39.617 <sub>68</sub>	60.52 <sub>240</sub>	14.324 <sub>95</sub>	38.12 <sub>252</sub>	61.53 <sub>11</sub>	56.43 <sub>268</sub>	4.425 <sub>32</sub>	56.66 <sub>27</sub>
31.4	39.549 <sub>104</sub>	62.92 <sub>209</sub>	14.229 <sub>157</sub>	40.64 <sub>239</sub>	61.42 <sub>19</sub>	59.11 <sub>251</sub>	4.393 <sub>62</sub>	56.93 <sub>43</sub>
Apr. 10.4	39.445 <sub>134</sub>	65.01 <sub>174</sub>	14.072 <sub>206</sub>	43.03 <sub>217</sub>	61.23 <sub>25</sub>	61.62 <sub>226</sub>	4.331 <sub>85</sub>	57.36 <sub>55</sub>
20.4	39.311 <sub>159</sub>	66.75 <sub>136</sub>	13.866 <sub>244</sub>	45.20 <sub>188</sub>	60.98 <sub>30</sub>	63.88 <sub>193</sub>	4.246 <sub>103</sub>	57.91 <sub>64</sub>
30.3	39.152 <sub>175</sub>	68.11 <sub>97</sub>	13.622 <sub>270</sub>	47.08 <sub>150</sub>	60.68 <sub>33</sub>	65.81 <sub>154</sub>	4.143 <sub>114</sub>	58.55 <sub>69</sub>
Mai 10.3	38.977 <sub>187</sub>	69.08 <sub>57</sub>	13.352 <sub>284</sub>	48.58 <sub>111</sub>	60.35 <sub>34</sub>	67.35 <sub>109</sub>	4.029 <sub>119</sub>	59.24 <sub>72</sub>
20.3	38.790 <sub>192</sub>	69.65 <sub>14</sub>	13.068 <sub>286</sub>	49.69 <sub>67</sub>	60.01 <sub>36</sub>	68.44 <sub>62</sub>	3.910 <sub>120</sub>	59.96 <sub>71</sub>
30.3	38.598 <sub>193</sub>	69.79 <sub>26</sub>	12.782 <sub>279</sub>	50.36 <sub>22</sub>	59.65 <sub>34</sub>	69.06 <sub>14</sub>	3.790 <sub>118</sub>	60.67 <sub>70</sub>
Juni 9.2	38.405 <sub>188</sub>	69.53 <sub>66</sub>	12.503 <sub>264</sub>	50.58 <sub>24</sub>	59.31 <sub>33</sub>	69.20 <sub>34</sub>	3.672 <sub>110</sub>	61.37 <sub>66</sub>
19.2	38.217 <sub>179</sub>	68.87 <sub>105</sub>	12.239 <sub>241</sub>	50.34 <sub>67</sub>	58.98 <sub>30</sub>	68.86 <sub>31</sub>	3.562 <sub>101</sub>	62.03 <sub>60</sub>
29.2	38.038 <sub>166</sub>	67.82 <sub>140</sub>	11.998 <sub>212</sub>	49.67 <sub>109</sub>	58.68 <sub>27</sub>	68.05 <sub>126</sub>	3.461 <sub>89</sub>	62.03 <sub>55</sub>
Juli 9.2	37.872 <sub>145</sub>	66.42 <sub>172</sub>	11.786 <sub>178</sub>	48.58 <sub>150</sub>	58.41 <sub>22</sub>	66.79 <sub>167</sub>	3.372 <sub>74</sub>	63.16 <sub>44</sub>
19.1	37.727 <sub>123</sub>	64.70 <sub>198</sub>	11.608 <sub>138</sub>	47.08 <sub>185</sub>	58.19 <sub>18</sub>	65.12 <sub>206</sub>	3.298 <sub>58</sub>	63.60 <sub>35</sub>
29.1	37.604 <sub>94</sub>	62.72 <sub>219</sub>	11.470 <sub>96</sub>	45.23 <sub>218</sub>	58.01 <sub>13</sub>	63.06 <sub>238</sub>	3.240 <sub>37</sub>	63.95 <sub>22</sub>
Aug. 8.1	37.510 <sub>60</sub>	60.53 <sub>231</sub>	11.374 <sub>49</sub>	43.05 <sub>246</sub>	57.88 <sub>7</sub>	60.68 <sub>267</sub>	3.203 <sub>16</sub>	64.17 <sub>7</sub>
18.0	37.450 <sub>22</sub>	58.22 <sub>237</sub>	11.325 <sub>0</sub>	40.59 <sub>269</sub>	57.81 <sub>1</sub>	58.01 <sub>291</sub>	3.187 <sub>9</sub>	64.24 <sub>10</sub>
28.0	37.428 <sub>21</sub>	55.85 <sub>234</sub>	11.325 <sub>54</sub>	37.90 <sub>288</sub>	57.80 <sub>5</sub>	55.10 <sub>308</sub>	3.196 <sub>38</sub>	64.14 <sub>27</sub>
Sept. 7.0	37.449 <sub>68</sub>	53.51 <sub>220</sub>	11.379 <sub>107</sub>	35.02 <sub>302</sub>	57.85 <sub>11</sub>	52.02 <sub>321</sub>	3.234 <sub>68</sub>	63.87 <sub>49</sub>
17.0	37.517 <sub>119</sub>	51.31 <sub>199</sub>	11.486 <sub>165</sub>	32.00 <sub>309</sub>	57.96 <sub>19</sub>	48.81 <sub>327</sub>	3.302 <sub>103</sub>	63.38 <sub>72</sub>
26.9	37.636 <sub>169</sub>	49.32 <sub>168</sub>	11.651 <sub>224</sub>	28.91 <sub>311</sub>	58.15 <sub>24</sub>	45.54 <sub>326</sub>	3.405 <sub>138</sub>	62.66 <sub>95</sub>
Okt. 6.9	37.805 <sub>220</sub>	47.64 <sub>128</sub>	11.875 <sub>283</sub>	25.80 <sub>306</sub>	58.39 <sub>32</sub>	42.28 <sub>318</sub>	3.543 <sub>175</sub>	61.71 <sub>119</sub>
16.9	38.025 <sub>268</sub>	46.36 <sub>83</sub>	12.158 <sub>340</sub>	22.74 <sub>295</sub>	58.71 <sub>39</sub>	39.10 <sub>304</sub>	3.718 <sub>212</sub>	60.52 <sub>142</sub>
26.9	38.293 <sub>312</sub>	45.53 <sub>31</sub>	12.498 <sub>394</sub>	19.79 <sub>276</sub>	59.10 <sub>44</sub>	36.06 <sub>281</sub>	3.930 <sub>246</sub>	59.10 <sub>163</sub>
Nov. 5.8	38.605 <sub>348</sub>	45.22 <sub>23</sub>	12.892 <sub>442</sub>	17.03 <sub>250</sub>	59.54 <sub>51</sub>	33.25 <sub>251</sub>	4.176 <sub>277</sub>	57.47 <sub>182</sub>
15.8	38.953 <sub>373</sub>	45.45 <sub>78</sub>	13.334 <sub>480</sub>	14.53 <sub>215</sub>	60.05 <sub>54</sub>	30.74 <sub>214</sub>	4.453 <sub>302</sub>	55.65 <sub>194</sub>
25.8	39.326 <sub>389</sub>	46.23 <sub>131</sub>	13.814 <sub>508</sub>	12.38 <sub>175</sub>	60.59 <sub>58</sub>	28.60 <sub>169</sub>	4.755 <sub>319</sub>	53.71 <sub>202</sub>
Dec. 5.7	39.715 <sub>391</sub>	47.54 <sub>181</sub>	14.322 <sub>521</sub>	10.63 <sub>128</sub>	61.17 <sub>59</sub>	26.91 <sub>118</sub>	5.074 <sub>326</sub>	51.69 <sub>204</sub>
15.7	40.106 <sub>380</sub>	49.35 <sub>226</sub>	14.843 <sub>518</sub>	9.35 <sub>77</sub>	61.76 <sub>59</sub>	25.73 <sub>64</sub>	5.400 <sub>323</sub>	49.65 <sub>198</sub>
25.7	40.486 <sub>357</sub>	51.61 <sub>263</sub>	15.361 <sub>499</sub>	8.58 <sub>23</sub>	62.35 <sub>57</sub>	25.09 <sub>7</sub>	5.723 <sub>309</sub>	47.67 <sub>185</sub>
35.7	40.843	54.24	15.860	8.35	62.92	25.02	6.032	45.82
Mittl. Ort secδ, tgδ	37.070 1.342	45.52 -0.895	12.388 1.826	43.65 +1.528	59.41 2.142	61.15 +1.894	2.786 1.009	69.38 +0.136

Mittlere Zeit Greenw.	420) $\psi$ Ursae maj.		421) $\beta$ Crateris		422) $\delta$ Leonis		423) $\theta$ Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	11 <sup>h</sup> 5 <sup>m</sup>	+44° 54'	11 <sup>h</sup> 7 <sup>m</sup>	-22° 24'	11 <sup>h</sup> 10 <sup>m</sup>	+20° 56'	11 <sup>h</sup> 10 <sup>m</sup>	+15° 50'
Jan. 0.7	20.516 <sup>390</sup>	43.41 <sup>42</sup>	52.858 <sup>304</sup>	14.26 <sup>252</sup>	1.173 <sup>316</sup>	35.22 <sup>134</sup>	12.339 <sup>308</sup>	54.36 <sup>152</sup>
10.7	20.906 <sup>355</sup>	42.99 <sup>8</sup>	53.162 <sup>272</sup>	16.78 <sup>259</sup>	1.489 <sup>288</sup>	33.88 <sup>102</sup>	12.647 <sup>279</sup>	52.84 <sup>123</sup>
20.6	21.261 <sup>307</sup>	43.07 <sup>55</sup>	53.434 <sup>233</sup>	19.37 <sup>260</sup>	1.777 <sup>249</sup>	32.86 <sup>66</sup>	12.926 <sup>243</sup>	51.61 <sup>92</sup>
30.6	21.568 <sup>252</sup>	43.62 <sup>101</sup>	53.667 <sup>189</sup>	21.97 <sup>251</sup>	2.026 <sup>206</sup>	32.20 <sup>31</sup>	13.169 <sup>200</sup>	50.69 <sup>59</sup>
Feb. 9.6	21.820 <sup>191</sup>	44.63 <sup>139</sup>	53.856 <sup>140</sup>	24.48 <sup>239</sup>	2.232 <sup>158</sup>	31.89 <sup>4</sup>	13.369 <sup>153</sup>	50.10 <sup>26</sup>
19.5	22.011 <sup>125</sup>	46.02 <sup>172</sup>	53.996 <sup>94</sup>	26.87 <sup>220</sup>	2.390 <sup>108</sup>	31.93 <sup>36</sup>	13.522 <sup>106</sup>	49.84 <sup>5</sup>
März 1.5	22.136 <sup>62</sup>	47.74 <sup>195</sup>	54.090 <sup>47</sup>	29.07 <sup>198</sup>	2.498 <sup>60</sup>	32.29 <sup>63</sup>	13.628 <sup>58</sup>	49.89 <sup>32</sup>
11.5	22.198 <sup>1</sup>	49.69 <sup>209</sup>	54.137 <sup>6</sup>	31.05 <sup>174</sup>	2.558 <sup>15</sup>	32.92 <sup>84</sup>	13.686 <sup>15</sup>	50.21 <sup>55</sup>
21.5	22.199 <sup>53</sup>	51.78 <sup>214</sup>	54.143 <sup>31</sup>	32.79 <sup>147</sup>	2.573 <sup>25</sup>	33.76 <sup>101</sup>	13.701 <sup>24</sup>	50.76 <sup>73</sup>
31.4	22.146 <sup>101</sup>	53.92 <sup>209</sup>	54.112 <sup>62</sup>	34.26 <sup>119</sup>	2.548 <sup>59</sup>	34.77 <sup>111</sup>	13.677 <sup>56</sup>	51.49 <sup>86</sup>
Apr. 10.4	22.045 <sup>139</sup>	56.01 <sup>197</sup>	54.050 <sup>88</sup>	35.45 <sup>91</sup>	2.489 <sup>87</sup>	35.88 <sup>115</sup>	13.621 <sup>82</sup>	52.35 <sup>93</sup>
20.4	21.906 <sup>167</sup>	57.98 <sup>176</sup>	53.962 <sup>108</sup>	36.36 <sup>63</sup>	2.402 <sup>106</sup>	37.03 <sup>114</sup>	13.539 <sup>101</sup>	53.28 <sup>96</sup>
30.4	21.739 <sup>188</sup>	59.74 <sup>150</sup>	53.854 <sup>120</sup>	36.99 <sup>35</sup>	2.296 <sup>120</sup>	38.17 <sup>107</sup>	13.438 <sup>115</sup>	54.24 <sup>95</sup>
Mai 10.3	21.551 <sup>198</sup>	61.24 <sup>119</sup>	53.734 <sup>130</sup>	37.34 <sup>6</sup>	2.176 <sup>128</sup>	39.24 <sup>99</sup>	13.323 <sup>122</sup>	55.19 <sup>89</sup>
20.3	21.353 <sup>201</sup>	62.43 <sup>84</sup>	53.604 <sup>134</sup>	37.40 <sup>20</sup>	2.048 <sup>130</sup>	40.23 <sup>86</sup>	13.201 <sup>124</sup>	56.08 <sup>82</sup>
30.3	21.152 <sup>197</sup>	63.27 <sup>49</sup>	53.470 <sup>133</sup>	37.20 <sup>47</sup>	1.918 <sup>128</sup>	41.09 <sup>70</sup>	13.077 <sup>122</sup>	56.90 <sup>72</sup>
Juni 9.2	20.955 <sup>186</sup>	63.76 <sup>10</sup>	53.337 <sup>130</sup>	36.73 <sup>72</sup>	1.790 <sup>122</sup>	41.79 <sup>54</sup>	12.955 <sup>116</sup>	57.62 <sup>59</sup>
19.2	20.769 <sup>172</sup>	63.86 <sup>26</sup>	53.207 <sup>124</sup>	36.01 <sup>95</sup>	1.668 <sup>112</sup>	42.33 <sup>35</sup>	12.839 <sup>107</sup>	58.21 <sup>47</sup>
29.2	20.597 <sup>152</sup>	63.60 <sup>63</sup>	53.083 <sup>113</sup>	35.06 <sup>114</sup>	1.556 <sup>99</sup>	42.68 <sup>16</sup>	12.732 <sup>96</sup>	58.68 <sup>31</sup>
Juli 9.2	20.445 <sup>128</sup>	62.97 <sup>98</sup>	52.970 <sup>100</sup>	33.92 <sup>132</sup>	1.457 <sup>85</sup>	42.84 <sup>3</sup>	12.636 <sup>82</sup>	58.99 <sup>16</sup>
19.1	20.317 <sup>101</sup>	61.99 <sup>131</sup>	52.870 <sup>83</sup>	32.60 <sup>145</sup>	1.372 <sup>67</sup>	42.81 <sup>23</sup>	12.554 <sup>64</sup>	59.15 <sup>1</sup>
29.1	20.216 <sup>71</sup>	60.68 <sup>162</sup>	52.787 <sup>63</sup>	31.15 <sup>152</sup>	1.305 <sup>47</sup>	42.58 <sup>44</sup>	12.490 <sup>46</sup>	59.14 <sup>18</sup>
Aug. 8.1	20.145 <sup>38</sup>	59.06 <sup>190</sup>	52.724 <sup>39</sup>	29.63 <sup>156</sup>	1.258 <sup>23</sup>	42.14 <sup>65</sup>	12.444 <sup>23</sup>	58.96 <sup>38</sup>
18.1	20.107 <sup>1</sup>	57.16 <sup>214</sup>	52.685 <sup>11</sup>	28.07 <sup>153</sup>	1.235 <sup>2</sup>	41.49 <sup>86</sup>	12.421 <sup>2</sup>	58.58 <sup>56</sup>
28.0	20.106 <sup>38</sup>	55.02 <sup>237</sup>	52.674 <sup>21</sup>	26.54 <sup>143</sup>	1.237 <sup>32</sup>	40.63 <sup>107</sup>	12.423 <sup>30</sup>	58.02 <sup>77</sup>
Sept. 7.0	20.144 <sup>79</sup>	52.65 <sup>253</sup>	52.695 <sup>57</sup>	25.11 <sup>127</sup>	1.269 <sup>63</sup>	39.56 <sup>128</sup>	12.453 <sup>61</sup>	57.25 <sup>99</sup>
17.0	20.223 <sup>125</sup>	50.12 <sup>268</sup>	52.752 <sup>96</sup>	23.84 <sup>103</sup>	1.332 <sup>99</sup>	38.28 <sup>149</sup>	12.514 <sup>97</sup>	56.26 <sup>119</sup>
26.9	20.348 <sup>172</sup>	47.44 <sup>276</sup>	52.848 <sup>136</sup>	22.81 <sup>74</sup>	1.431 <sup>136</sup>	36.79 <sup>168</sup>	12.611 <sup>132</sup>	55.07 <sup>141</sup>
Okt. 6.9	20.520 <sup>220</sup>	44.68 <sup>279</sup>	52.984 <sup>178</sup>	22.07 <sup>40</sup>	1.567 <sup>175</sup>	35.11 <sup>186</sup>	12.743 <sup>171</sup>	53.66 <sup>161</sup>
16.9	20.740 <sup>266</sup>	41.89 <sup>278</sup>	53.162 <sup>219</sup>	21.67 <sup>1</sup>	1.742 <sup>214</sup>	33.25 <sup>200</sup>	12.914 <sup>209</sup>	52.05 <sup>179</sup>
26.9	21.006 <sup>312</sup>	39.11 <sup>268</sup>	53.381 <sup>256</sup>	21.66 <sup>41</sup>	1.956 <sup>251</sup>	31.25 <sup>211</sup>	13.123 <sup>245</sup>	50.26 <sup>194</sup>
Nov. 5.8	21.318 <sup>352</sup>	36.43 <sup>252</sup>	53.637 <sup>290</sup>	22.07 <sup>83</sup>	2.207 <sup>284</sup>	29.14 <sup>218</sup>	13.368 <sup>278</sup>	48.32 <sup>205</sup>
15.8	21.670 <sup>386</sup>	33.91 <sup>230</sup>	53.927 <sup>316</sup>	22.90 <sup>125</sup>	2.491 <sup>312</sup>	26.96 <sup>217</sup>	13.646 <sup>306</sup>	46.27 <sup>210</sup>
25.8	22.056 <sup>409</sup>	31.61 <sup>198</sup>	54.243 <sup>332</sup>	24.15 <sup>163</sup>	2.803 <sup>332</sup>	24.79 <sup>212</sup>	13.952 <sup>324</sup>	44.17 <sup>210</sup>
Dez. 5.8	22.465 <sup>423</sup>	29.63 <sup>162</sup>	54.575 <sup>339</sup>	25.78 <sup>197</sup>	3.135 <sup>342</sup>	22.67 <sup>198</sup>	14.276 <sup>334</sup>	42.07 <sup>202</sup>
15.7	22.888 <sup>423</sup>	28.01 <sup>120</sup>	54.914 <sup>334</sup>	27.75 <sup>223</sup>	3.477 <sup>342</sup>	20.69 <sup>179</sup>	14.610 <sup>334</sup>	40.05 <sup>188</sup>
25.7	23.311 <sup>408</sup>	26.81 <sup>72</sup>	55.248 <sup>319</sup>	29.98 <sup>244</sup>	3.819 <sup>330</sup>	18.90 <sup>153</sup>	14.944 <sup>322</sup>	38.17 <sup>167</sup>
35.7	23.719	26.09	55.567	32.42	4.149	17.37	15.266	36.50
Mittl. Ort sec $\delta$ , tg $\delta$	20.499 1.412	59.50 +0.997	52.124 1.082	18.52 -0.412	0.969 1.071	44.90 +0.383	12.087 1.039	62.47 +0.284

Mittlere Zeit Greenw.	425) $\nu$ Ursae maj.		426) $\delta$ Crateris		427) $\sigma$ Leonis		428) $\pi$ Centauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	11 <sup>h</sup> 14 <sup>m</sup>	+33° 30'	11 <sup>h</sup> 15 <sup>m</sup>	-14° 21'	11 <sup>h</sup> 17 <sup>m</sup>	+6° 26'	11 <sup>h</sup> 17 <sup>m</sup>	-54° 3'
Jan. 0.7	19.534 <sup>347</sup>	39.57 <sup>92</sup>	29.930 <sup>300</sup>	39.93 <sup>234</sup>	10.323 <sup>301</sup>	60.77 <sup>183</sup>	30.955 <sup>418</sup>	54.44 <sup>265</sup>
10.7	19.881 <sup>317</sup>	38.65 <sup>50</sup>	30.230 <sup>271</sup>	42.27 <sup>235</sup>	10.624 <sup>275</sup>	58.94 <sup>164</sup>	31.373 <sup>373</sup>	57.09 <sup>301</sup>
20.6	20.198 <sup>278</sup>	38.15 <sup>6</sup>	30.501 <sup>235</sup>	44.62 <sup>227</sup>	10.899 <sup>239</sup>	57.30 <sup>139</sup>	31.746 <sup>317</sup>	60.10 <sup>326</sup>
30.6	20.476 <sup>230</sup>	38.09 <sup>36</sup>	30.736 <sup>193</sup>	46.89 <sup>215</sup>	11.138 <sup>199</sup>	55.91 <sup>111</sup>	32.063 <sup>254</sup>	63.36 <sup>342</sup>
Feb. 9.6	20.706 <sup>178</sup>	38.45 <sup>75</sup>	30.929 <sup>148</sup>	49.04 <sup>197</sup>	11.337 <sup>154</sup>	54.80 <sup>83</sup>	32.317 <sup>187</sup>	66.78 <sup>350</sup>
19.5	20.884 <sup>122</sup>	39.20 <sup>109</sup>	31.077 <sup>102</sup>	51.01 <sup>176</sup>	11.491 <sup>108</sup>	53.97 <sup>53</sup>	32.504 <sup>121</sup>	70.28 <sup>347</sup>
März 1.5	21.006 <sup>69</sup>	40.29 <sup>135</sup>	31.179 <sup>57</sup>	52.77 <sup>153</sup>	11.599 <sup>63</sup>	53.44 <sup>27</sup>	32.625 <sup>55</sup>	73.75 <sup>339</sup>
11.5	21.075 <sup>17</sup>	41.64 <sup>155</sup>	31.236 <sup>17</sup>	54.30 <sup>127</sup>	11.662 <sup>22</sup>	53.17 <sup>1</sup>	32.680 <sup>6</sup>	77.14 <sup>321</sup>
21.5	21.092 <sup>29</sup>	43.19 <sup>166</sup>	31.253 <sup>20</sup>	55.57 <sup>102</sup>	11.684 <sup>15</sup>	53.16 <sup>19</sup>	32.674 <sup>63</sup>	80.35 <sup>298</sup>
31.4	21.063 <sup>68</sup>	44.85 <sup>170</sup>	31.233 <sup>50</sup>	56.59 <sup>77</sup>	11.669 <sup>47</sup>	53.35 <sup>38</sup>	32.611 <sup>111</sup>	83.33 <sup>270</sup>
Apr. 10.4	20.995 <sup>101</sup>	46.55 <sup>166</sup>	31.183 <sup>75</sup>	57.36 <sup>52</sup>	11.622 <sup>71</sup>	53.73 <sup>51</sup>	32.500 <sup>155</sup>	86.03 <sup>236</sup>
20.4	20.894 <sup>125</sup>	48.21 <sup>155</sup>	31.108 <sup>94</sup>	57.88 <sup>29</sup>	11.551 <sup>91</sup>	54.24 <sup>61</sup>	32.345 <sup>190</sup>	88.39 <sup>198</sup>
30.4	20.769 <sup>142</sup>	49.76 <sup>140</sup>	31.014 <sup>108</sup>	58.17 <sup>6</sup>	11.460 <sup>104</sup>	54.85 <sup>68</sup>	32.155 <sup>219</sup>	90.37 <sup>157</sup>
Mai 10.3	20.627 <sup>152</sup>	51.16 <sup>118</sup>	30.906 <sup>117</sup>	58.23 <sup>16</sup>	11.356 <sup>112</sup>	55.53 <sup>72</sup>	31.936 <sup>240</sup>	91.94 <sup>113</sup>
20.3	20.475 <sup>156</sup>	52.34 <sup>94</sup>	30.789 <sup>121</sup>	58.07 <sup>36</sup>	11.244 <sup>116</sup>	56.25 <sup>72</sup>	31.696 <sup>255</sup>	93.07 <sup>67</sup>
30.3	20.319 <sup>154</sup>	53.28 <sup>68</sup>	30.668 <sup>122</sup>	57.71 <sup>54</sup>	11.128 <sup>115</sup>	56.97 <sup>72</sup>	31.441 <sup>264</sup>	93.74 <sup>20</sup>
Juni 9.2	20.165 <sup>147</sup>	53.96 <sup>39</sup>	30.546 <sup>119</sup>	57.17 <sup>72</sup>	11.013 <sup>111</sup>	57.69 <sup>69</sup>	31.177 <sup>266</sup>	93.94 <sup>27</sup>
19.2	20.018 <sup>137</sup>	54.35 <sup>9</sup>	30.427 <sup>113</sup>	56.45 <sup>87</sup>	10.902 <sup>105</sup>	58.38 <sup>64</sup>	30.911 <sup>261</sup>	93.67 <sup>74</sup>
29.2	19.881 <sup>122</sup>	54.44 <sup>20</sup>	30.314 <sup>105</sup>	55.58 <sup>100</sup>	10.797 <sup>94</sup>	59.02 <sup>57</sup>	30.650 <sup>249</sup>	92.93 <sup>118</sup>
Juli 9.2	19.759 <sup>105</sup>	54.24 <sup>49</sup>	30.209 <sup>92</sup>	54.58 <sup>111</sup>	10.703 <sup>83</sup>	59.59 <sup>50</sup>	30.401 <sup>230</sup>	91.75 <sup>158</sup>
19.1	19.654 <sup>85</sup>	53.75 <sup>77</sup>	30.117 <sup>78</sup>	53.47 <sup>117</sup>	10.620 <sup>68</sup>	60.09 <sup>39</sup>	30.171 <sup>204</sup>	90.17 <sup>195</sup>
29.1	19.569 <sup>62</sup>	52.98 <sup>104</sup>	30.039 <sup>60</sup>	52.30 <sup>120</sup>	10.552 <sup>51</sup>	60.48 <sup>28</sup>	29.967 <sup>170</sup>	88.22 <sup>226</sup>
Aug. 8.1	19.507 <sup>35</sup>	51.94 <sup>130</sup>	29.979 <sup>38</sup>	51.10 <sup>118</sup>	10.501 <sup>29</sup>	60.76 <sup>14</sup>	29.797 <sup>128</sup>	85.96 <sup>248</sup>
18.1	19.472 <sup>6</sup>	50.64 <sup>156</sup>	29.941 <sup>12</sup>	49.92 <sup>112</sup>	10.472 <sup>6</sup>	60.90 <sup>3</sup>	29.669 <sup>80</sup>	83.48 <sup>265</sup>
28.0	19.466 <sup>26</sup>	49.08 <sup>177</sup>	29.929 <sup>17</sup>	48.80 <sup>100</sup>	10.466 <sup>22</sup>	60.87 <sup>22</sup>	29.589 <sup>24</sup>	80.83 <sup>269</sup>
Sept. 7.0	19.492 <sup>62</sup>	47.31 <sup>198</sup>	29.946 <sup>50</sup>	47.80 <sup>82</sup>	10.488 <sup>52</sup>	60.65 <sup>42</sup>	29.565 <sup>37</sup>	78.14 <sup>265</sup>
17.0	19.554 <sup>101</sup>	45.33 <sup>216</sup>	29.996 <sup>86</sup>	46.98 <sup>59</sup>	10.540 <sup>86</sup>	60.23 <sup>65</sup>	29.602 <sup>102</sup>	75.49 <sup>250</sup>
26.9	19.655 <sup>142</sup>	43.17 <sup>231</sup>	30.082 <sup>125</sup>	46.39 <sup>32</sup>	10.626 <sup>123</sup>	59.58 <sup>89</sup>	29.704 <sup>170</sup>	72.99 <sup>226</sup>
Okt. 6.9	19.797 <sup>184</sup>	40.86 <sup>242</sup>	30.207 <sup>166</sup>	46.07 <sup>1</sup>	10.749 <sup>160</sup>	58.69 <sup>114</sup>	29.874 <sup>236</sup>	70.73 <sup>190</sup>
16.9	19.981 <sup>227</sup>	38.44 <sup>248</sup>	30.373 <sup>205</sup>	46.08 <sup>35</sup>	10.909 <sup>199</sup>	57.55 <sup>138</sup>	30.110 <sup>301</sup>	68.83 <sup>147</sup>
26.9	20.208 <sup>267</sup>	35.96 <sup>250</sup>	30.578 <sup>242</sup>	46.43 <sup>72</sup>	11.108 <sup>235</sup>	56.17 <sup>160</sup>	30.411 <sup>358</sup>	67.36 <sup>95</sup>
Nov. 5.8	20.475 <sup>305</sup>	33.46 <sup>244</sup>	30.820 <sup>276</sup>	47.15 <sup>109</sup>	11.343 <sup>269</sup>	54.57 <sup>180</sup>	30.769 <sup>426</sup>	66.41 <sup>39</sup>
15.8	20.780 <sup>336</sup>	31.02 <sup>233</sup>	31.096 <sup>302</sup>	48.24 <sup>142</sup>	11.612 <sup>295</sup>	52.77 <sup>195</sup>	31.175 <sup>443</sup>	66.02 <sup>20</sup>
25.8	21.116 <sup>359</sup>	28.69 <sup>214</sup>	31.398 <sup>320</sup>	49.66 <sup>174</sup>	11.907 <sup>316</sup>	50.82 <sup>203</sup>	31.618 <sup>465</sup>	66.22 <sup>80</sup>
Dez. 5.8	21.475 <sup>372</sup>	26.55 <sup>188</sup>	31.718 <sup>329</sup>	51.40 <sup>199</sup>	12.223 <sup>325</sup>	48.79 <sup>208</sup>	32.083 <sup>472</sup>	67.02 <sup>138</sup>
15.7	21.847 <sup>373</sup>	24.67 <sup>155</sup>	32.047 <sup>327</sup>	53.39 <sup>219</sup>	12.548 <sup>325</sup>	46.71 <sup>204</sup>	32.555 <sup>464</sup>	68.40 <sup>192</sup>
25.7	22.220 <sup>362</sup>	23.12 <sup>118</sup>	32.374 <sup>314</sup>	55.58 <sup>230</sup>	12.873 <sup>315</sup>	44.67 <sup>193</sup>	33.019 <sup>439</sup>	70.32 <sup>240</sup>
35.7	22.582	21.94	32.688	57.88	13.188	42.74	33.458	72.72
Mittl. Ort	19.475	52.71	29.363	41.99	10.017	65.60	29.365	67.93
sec $\delta$ , tg $\delta$	1.199	+0.662	1.032	-0.256	1.006	-10.113	1.704	-1.380



Mittlere Zeit Greenw.	429) Gr. 1771		433) λ Draconis		434) ε Hydrae		436) λ Centauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	11 <sup>h</sup> 18 <sup>m</sup>	+64° 44'	11 <sup>h</sup> 26 <sup>m</sup>	+69° 44'	11 <sup>h</sup> 29 <sup>m</sup>	-31° 25'	11 <sup>h</sup> 32 <sup>m</sup>	-62° 35'
Jan. 0.7	17.27 <sub>60</sub>	48.45 <sub>14</sub>	50.43 <sub>73</sub>	62.65 <sub>19</sub>	13.425 <sub>330</sub>	44.93 <sub>252</sub>	15.25 <sub>52</sub>	21.08 <sub>244</sub>
10.7	17.87 <sub>55</sub>	48.59 <sub>74</sub>	51.16 <sub>67</sub>	62.84 <sub>80</sub>	13.755 <sub>301</sub>	47.45 <sub>270</sub>	15.77 <sub>47</sub>	23.52 <sub>286</sub>
20.6	18.42 <sub>48</sub>	49.33 <sub>128</sub>	51.83 <sub>59</sub>	63.64 <sub>137</sub>	14.056 <sub>261</sub>	50.15 <sub>279</sub>	16.24 <sub>40</sub>	26.38 <sub>319</sub>
30.6	18.00 <sub>41</sub>	50.61 <sub>179</sub>	52.42 <sub>50</sub>	65.01 <sub>189</sub>	14.317 <sub>217</sub>	52.94 <sub>281</sub>	16.64 <sub>33</sub>	29.57 <sub>344</sub>
Feb. 9.6	19.31 <sub>30</sub>	52.40 <sub>221</sub>	52.92 <sub>38</sub>	66.90 <sub>232</sub>	14.534 <sub>169</sub>	55.75 <sub>275</sub>	16.97 <sub>26</sub>	33.01 <sub>358</sub>
19.5	19.61	54.61 <sub>253</sub>	53.30 <sub>27</sub>	69.22 <sub>266</sub>	14.703 <sub>119</sub>	58.50 <sub>263</sub>	17.23 <sub>17</sub>	36.59 <sub>364</sub>
März 1.5	19.82 <sub>10</sub>	57.14 <sub>274</sub>	53.57 <sub>14</sub>	71.88 <sub>287</sub>	14.822 <sub>72</sub>	61.13 <sub>246</sub>	17.40 <sub>9</sub>	40.23 <sub>360</sub>
11.5	19.92 <sub>1</sub>	59.88 <sub>283</sub>	53.71 <sub>2</sub>	74.75 <sub>297</sub>	14.894 <sub>28</sub>	63.59 <sub>224</sub>	17.49 <sub>1</sub>	43.83 <sub>350</sub>
21.5	19.93 <sub>10</sub>	62.71 <sub>282</sub>	53.73 <sub>10</sub>	77.72 <sub>295</sub>	14.922 <sub>14</sub>	65.83 <sub>200</sub>	17.50 <sub>6</sub>	47.33 <sub>331</sub>
31.4	19.83 <sub>17</sub>	65.53 <sub>268</sub>	53.63 <sub>21</sub>	80.67 <sub>281</sub>	14.908 <sub>48</sub>	67.83 <sub>172</sub>	17.44 <sub>13</sub>	50.64 <sub>307</sub>
Apr. 10.4	19.66 <sub>25</sub>	68.21 <sub>245</sub>	53.42 <sub>30</sub>	83.48 <sub>256</sub>	14.860 <sub>77</sub>	69.55 <sub>143</sub>	17.31 <sub>18</sub>	53.71 <sub>275</sub>
20.4	19.41 <sub>30</sub>	70.66 <sub>214</sub>	53.12 <sub>38</sub>	86.04 <sub>224</sub>	14.783 <sub>102</sub>	70.98 <sub>111</sub>	17.13 <sub>23</sub>	56.46 <sub>240</sub>
30.4	19.11 <sub>34</sub>	72.80 <sub>174</sub>	52.74 <sub>43</sub>	88.28 <sub>182</sub>	14.681 <sub>120</sub>	72.09 <sub>80</sub>	16.90 <sub>27</sub>	58.86 <sub>198</sub>
Mai 10.3	18.77 <sub>38</sub>	74.54 <sub>130</sub>	52.31 <sub>48</sub>	90.10 <sub>137</sub>	14.561 <sub>134</sub>	72.89 <sub>47</sub>	16.63 <sub>31</sub>	60.84 <sub>155</sub>
20.3	18.39 <sub>39</sub>	75.84 <sub>82</sub>	51.83 <sub>49</sub>	91.47 <sub>86</sub>	14.427 <sub>143</sub>	73.36 <sub>15</sub>	16.32 <sub>34</sub>	62.39 <sub>107</sub>
30.3	18.00 <sub>39</sub>	76.66 <sub>33</sub>	51.34 <sub>50</sub>	92.33 <sub>35</sub>	14.284 <sub>148</sub>	73.51 <sub>19</sub>	15.98 <sub>35</sub>	63.46 <sub>57</sub>
Juni 9.2	17.61 <sub>38</sub>	76.99 <sub>17</sub>	50.84 <sub>50</sub>	92.68 <sub>19</sub>	14.136 <sub>150</sub>	73.32 <sub>50</sub>	15.63 <sub>36</sub>	64.03 <sub>7</sub>
19.2	17.23 <sub>35</sub>	76.82 <sub>67</sub>	50.34 <sub>47</sub>	92.49 <sub>70</sub>	13.986 <sub>147</sub>	72.82 <sub>80</sub>	15.27 <sub>36</sub>	64.10 <sub>44</sub>
29.2	16.88 <sub>33</sub>	76.15 <sub>115</sub>	49.87 <sub>43</sub>	91.79 <sub>120</sub>	13.839 <sub>140</sub>	72.02 <sub>109</sub>	14.91 <sub>35</sub>	63.66 <sub>92</sub>
Juli 9.2	16.55 <sub>28</sub>	75.00 <sub>158</sub>	49.44 <sub>38</sub>	90.59 <sub>166</sub>	13.699 <sub>130</sub>	70.93 <sub>133</sub>	14.56 <sub>34</sub>	62.74 <sub>140</sub>
19.1	16.27 <sub>24</sub>	73.42 <sub>201</sub>	49.06 <sub>33</sub>	88.93 <sub>210</sub>	13.569 <sub>115</sub>	69.60 <sub>155</sub>	14.22 <sub>30</sub>	61.34 <sub>182</sub>
29.1	16.03 <sub>19</sub>	71.41 <sub>236</sub>	48.73 <sub>27</sub>	86.83 <sub>248</sub>	13.454 <sub>96</sub>	68.05 <sub>171</sub>	13.92 <sub>26</sub>	59.52 <sub>220</sub>
Aug. 8.1	15.84 <sub>12</sub>	69.05 <sub>269</sub>	48.46 <sub>20</sub>	84.35 <sub>281</sub>	13.358 <sub>71</sub>	66.34 <sub>182</sub>	13.66 <sub>21</sub>	57.32 <sub>249</sub>
18.1	15.72 <sub>7</sub>	66.36 <sub>295</sub>	48.26 <sub>12</sub>	81.54 <sub>309</sub>	13.287 <sub>42</sub>	64.52 <sub>186</sub>	13.45 <sub>15</sub>	54.83 <sub>272</sub>
28.0	15.65 <sub>0</sub>	63.41 <sub>316</sub>	48.14 <sub>3</sub>	78.45 <sub>330</sub>	13.245 <sub>8</sub>	62.66 <sub>183</sub>	13.30 <sub>7</sub>	52.11 <sub>285</sub>
Sept. 7.0	15.65 <sub>7</sub>	60.25 <sub>331</sub>	48.11 <sub>5</sub>	75.15 <sub>346</sub>	13.237 <sub>31</sub>	60.83 <sub>172</sub>	13.23 <sub>0</sub>	49.26 <sub>287</sub>
17.0	15.72 <sub>15</sub>	56.94 <sub>339</sub>	48.16 <sub>14</sub>	71.69 <sub>353</sub>	13.268 <sub>74</sub>	59.11 <sub>152</sub>	13.23 <sub>8</sub>	46.39 <sub>279</sub>
26.9	15.87 <sub>22</sub>	53.55 <sub>341</sub>	48.30 <sub>24</sub>	68.16 <sub>355</sub>	13.342 <sub>120</sub>	57.59 <sub>127</sub>	13.31 <sub>18</sub>	43.60 <sub>259</sub>
Okt. 6.9	16.09 <sub>30</sub>	50.14 <sub>336</sub>	48.54 <sub>33</sub>	64.61 <sub>348</sub>	13.462 <sub>166</sub>	56.32 <sub>94</sub>	13.49 <sub>26</sub>	41.01 <sub>229</sub>
16.9	16.39 <sub>38</sub>	46.78 <sub>322</sub>	48.87 <sub>42</sub>	61.13 <sub>333</sub>	13.628 <sub>214</sub>	55.38 <sub>53</sub>	13.75 <sub>34</sub>	38.72 <sub>188</sub>
26.9	16.77 <sub>44</sub>	43.56 <sub>301</sub>	49.29 <sub>52</sub>	57.80 <sub>310</sub>	13.842 <sub>256</sub>	54.85 <sub>11</sub>	14.09 <sub>42</sub>	36.84 <sub>140</sub>
Nov. 5.8	17.21 <sub>52</sub>	40.55 <sub>272</sub>	49.81 <sub>59</sub>	54.70 <sub>280</sub>	14.098 <sub>206</sub>	54.74 <sub>37</sub>	14.51 <sub>49</sub>	35.44 <sub>83</sub>
15.8	17.73 <sub>56</sub>	37.83 <sub>234</sub>	50.40 <sub>67</sub>	51.90 <sub>239</sub>	14.394 <sub>326</sub>	55.11 <sub>83</sub>	15.00 <sub>53</sub>	34.61 <sub>21</sub>
25.8	18.29 <sub>61</sub>	35.49 <sub>193</sub>	51.07 <sub>71</sub>	49.51 <sub>194</sub>	14.720 <sub>348</sub>	55.94 <sub>129</sub>	15.53 <sub>56</sub>	34.37 <sub>39</sub>
Dez. 5.8	18.90 <sub>64</sub>	33.59 <sub>138</sub>	51.78 <sub>75</sub>	47.57 <sub>140</sub>	15.068 <sub>359</sub>	57.23 <sub>171</sub>	16.09 <sub>58</sub>	34.76 <sub>101</sub>
15.7	19.54 <sub>63</sub>	32.21 <sub>83</sub>	52.53 <sub>77</sub>	46.17 <sub>81</sub>	15.427 <sub>357</sub>	58.94 <sub>208</sub>	16.67 <sub>57</sub>	35.77 <sub>160</sub>
25.7	20.17 <sub>63</sub>	31.38 <sub>24</sub>	53.30 <sub>75</sub>	45.36 <sub>20</sub>	15.784 <sub>344</sub>	61.02 <sub>237</sub>	17.24 <sub>54</sub>	37.37 <sub>213</sub>
35.7	20.80	31.14	54.05	45.16	16.128	63.39	17.78	39.50
Mittl. Ort sec δ, tg δ	17.67 2.344	67.72 +2.120	51.11 2.890	82.31 +2.711	12.651 1.172	53.17 -0.611	13.26 2.173	37.23 -1.929

Mittlere Zeit Greenw.	437) $\alpha$ Leonis		440) $\gamma$ Draconis		441) $\gamma$ Ursae maj.		444) $\beta$ Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$11^h 33^m$	$-0^\circ 23'$	$11^h 38^m$	$+67^\circ 9'$	$11^h 41^m$	$+48^\circ 11'$	$11^h 45^m$	$+14^\circ 59'$
Jan. 0.7	0.663 <sub>305</sub>	56.68 <sub>203</sub>	10.80 <sub>66</sub>	57.24 <sub>4</sub>	59.140 <sub>424</sub>	66.96 <sub>69</sub>	8.070 <sub>318</sub>	62.59 <sub>170</sub>
10.7	0.968 <sub>280</sub>	58.71 <sub>191</sub>	11.46 <sub>62</sub>	57.20 <sub>57</sub>	59.564 <sub>397</sub>	66.27 <sub>15</sub>	8.388 <sub>297</sub>	60.89 <sub>142</sub>
20.6	1.248 <sub>248</sub>	60.62 <sub>171</sub>	12.08 <sub>55</sub>	57.77 <sub>117</sub>	59.961 <sub>356</sub>	66.12 <sub>39</sub>	8.685 <sub>265</sub>	59.47 <sub>109</sub>
30.6	1.496 <sub>209</sub>	62.33 <sub>150</sub>	12.63 <sub>48</sub>	58.94 <sub>169</sub>	60.317 <sub>305</sub>	66.51 <sub>90</sub>	8.950 <sub>227</sub>	58.38 <sub>75</sub>
Feb. 9.6	1.705 <sub>166</sub>	63.83 <sub>123</sub>	13.11 <sub>37</sub>	60.63 <sub>216</sub>	60.622 <sub>246</sub>	67.41 <sub>135</sub>	9.177 <sub>184</sub>	57.63 <sub>41</sub>
19.6	1.871 <sub>122</sub>	65.06 <sub>97</sub>	13.48 <sub>27</sub>	62.79 <sub>252</sub>	60.868 <sub>181</sub>	68.76 <sub>175</sub>	9.361 <sub>139</sub>	57.22 <sub>7</sub>
März 1.5	1.993 <sub>78</sub>	66.03 <sub>69</sub>	13.75 <sub>16</sub>	65.31 <sub>278</sub>	61.049 <sub>116</sub>	70.51 <sub>205</sub>	9.500 <sub>94</sub>	57.15 <sub>23</sub>
11.5	2.071 <sub>38</sub>	66.72 <sub>45</sub>	13.91 <sub>4</sub>	68.09 <sub>291</sub>	61.165 <sub>51</sub>	72.56 <sub>226</sub>	9.594 <sub>50</sub>	57.38 <sub>49</sub>
21.5	2.109 <sub>1</sub>	67.17 <sub>20</sub>	13.95 <sub>6</sub>	71.00 <sub>293</sub>	61.216 <sub>9</sub>	74.82 <sub>236</sub>	9.644 <sub>11</sub>	57.87 <sub>71</sub>
31.5	2.110 <sub>31</sub>	67.37 <sub>0</sub>	13.89 <sub>15</sub>	73.93 <sub>283</sub>	61.207 <sub>64</sub>	77.18 <sub>237</sub>	9.655 <sub>24</sub>	58.58 <sub>87</sub>
Apr. 10.4	2.079 <sub>57</sub>	67.37 <sub>18</sub>	13.74 <sub>24</sub>	76.76 <sub>262</sub>	61.143 <sub>109</sub>	79.55 <sub>227</sub>	9.631 <sub>52</sub>	59.45 <sub>98</sub>
20.4	2.022 <sub>77</sub>	67.19 <sub>33</sub>	13.50 <sub>31</sub>	79.38 <sub>233</sub>	61.034 <sub>147</sub>	81.82 <sub>210</sub>	9.579 <sub>76</sub>	60.43 <sub>103</sub>
30.4	1.945 <sub>93</sub>	66.86 <sub>45</sub>	13.19 <sub>36</sub>	81.71 <sub>196</sub>	60.887 <sub>177</sub>	83.92 <sub>186</sub>	9.503 <sub>94</sub>	61.46 <sub>103</sub>
Mai 10.3	1.852 <sub>103</sub>	66.41 <sub>55</sub>	12.83 <sub>41</sub>	83.67 <sub>151</sub>	60.710 <sub>197</sub>	85.78 <sub>155</sub>	9.409 <sub>106</sub>	62.49 <sub>100</sub>
20.3	1.749 <sub>109</sub>	65.86 <sub>62</sub>	12.42 <sub>42</sub>	85.18 <sub>104</sub>	60.513 <sub>209</sub>	87.33 <sub>119</sub>	9.303 <sub>113</sub>	63.49 <sub>94</sub>
30.3	1.640 <sub>111</sub>	65.24 <sub>67</sub>	12.00 <sub>44</sub>	86.22 <sub>53</sub>	60.304 <sub>215</sub>	88.52 <sub>81</sub>	9.190 <sub>118</sub>	64.43 <sub>84</sub>
Juni 9.3	1.529 <sub>111</sub>	64.57 <sub>71</sub>	11.56 <sub>43</sub>	86.75 <sub>1</sub>	60.089 <sub>212</sub>	89.33 <sub>40</sub>	9.072 <sub>118</sub>	65.27 <sub>71</sub>
19.2	1.418 <sub>107</sub>	63.86 <sub>72</sub>	11.13 <sub>42</sub>	86.76 <sub>50</sub>	59.877 <sub>206</sub>	89.73 <sub>2</sub>	8.954 <sub>116</sub>	65.98 <sub>58</sub>
29.2	1.311 <sub>100</sub>	63.14 <sub>72</sub>	10.71 <sub>39</sub>	86.26 <sub>100</sub>	59.671 <sub>192</sub>	89.71 <sub>42</sub>	8.838 <sub>109</sub>	66.56 <sub>43</sub>
Juli 9.2	1.211 <sub>91</sub>	62.42 <sub>69</sub>	10.32 <sub>35</sub>	85.26 <sub>147</sub>	59.479 <sub>174</sub>	89.29 <sub>83</sub>	8.729 <sub>100</sub>	66.99 <sub>26</sub>
19.2	1.120 <sub>79</sub>	61.73 <sub>65</sub>	9.97 <sub>31</sub>	83.79 <sub>191</sub>	59.305 <sub>152</sub>	88.46 <sub>121</sub>	8.629 <sub>89</sub>	67.25 <sub>8</sub>
29.1	1.041 <sub>63</sub>	61.08 <sub>58</sub>	9.66 <sub>26</sub>	81.88 <sub>231</sub>	59.153 <sub>126</sub>	87.25 <sub>157</sub>	8.540 <sub>74</sub>	67.33 <sub>11</sub>
Aug. 8.1	0.978 <sub>45</sub>	60.50 <sub>47</sub>	9.40 <sub>19</sub>	79.57 <sub>266</sub>	59.027 <sub>94</sub>	85.68 <sub>191</sub>	8.466 <sub>55</sub>	67.22 <sub>30</sub>
18.1	0.933 <sub>22</sub>	60.03 <sub>34</sub>	9.21 <sub>13</sub>	76.91 <sub>296</sub>	58.933 <sub>60</sub>	83.77 <sub>221</sub>	8.411 <sub>33</sub>	66.92 <sub>51</sub>
28.0	0.911 <sub>5</sub>	59.69 <sub>18</sub>	9.08 <sub>6</sub>	73.95 <sub>320</sub>	58.873 <sub>19</sub>	81.56 <sub>247</sub>	8.378 <sub>6</sub>	66.41 <sub>72</sub>
Sept. 7.0	0.916 <sub>36</sub>	59.51 <sub>1</sub>	9.02 <sub>2</sub>	70.75 <sub>338</sub>	58.854 <sub>23</sub>	79.09 <sub>270</sub>	8.372 <sub>23</sub>	65.69 <sub>95</sub>
17.0	0.952 <sub>69</sub>	59.52 <sub>25</sub>	9.04 <sub>10</sub>	67.37 <sub>349</sub>	58.877 <sub>72</sub>	76.39 <sub>288</sub>	8.395 <sub>58</sub>	64.74 <sub>118</sub>
27.0	1.021 <sub>107</sub>	59.77 <sub>50</sub>	9.14 <sub>19</sub>	63.88 <sub>354</sub>	58.949 <sub>121</sub>	73.51 <sub>300</sub>	8.453 <sub>95</sub>	63.56 <sub>140</sub>
Okt. 6.9	1.128 <sub>146</sub>	60.27 <sub>76</sub>	9.33 <sub>27</sub>	60.34 <sub>351</sub>	59.070 <sub>176</sub>	70.51 <sub>307</sub>	8.548 <sub>136</sub>	62.16 <sub>163</sub>
16.9	1.274 <sub>185</sub>	61.03 <sub>105</sub>	9.60 <sub>36</sub>	56.83 <sub>339</sub>	59.246 <sub>229</sub>	67.44 <sub>308</sub>	8.684 <sub>176</sub>	60.53 <sub>182</sub>
26.9	1.459 <sub>224</sub>	62.08 <sub>131</sub>	9.96 <sub>44</sub>	53.44 <sub>320</sub>	59.475 <sub>282</sub>	64.36 <sub>301</sub>	8.860 <sub>216</sub>	58.71 <sub>200</sub>
Nov. 5.9	1.683 <sub>259</sub>	63.39 <sub>157</sub>	10.40 <sub>52</sub>	50.24 <sub>292</sub>	59.757 <sub>331</sub>	61.35 <sub>287</sub>	9.076 <sub>254</sub>	56.71 <sub>212</sub>
15.8	1.942 <sub>288</sub>	64.96 <sub>179</sub>	10.92 <sub>58</sub>	47.32 <sub>256</sub>	60.088 <sub>374</sub>	58.48 <sub>264</sub>	9.330 <sub>286</sub>	54.59 <sub>220</sub>
25.8	2.230 <sub>309</sub>	66.75 <sub>195</sub>	11.50 <sub>63</sub>	44.76 <sub>212</sub>	60.462 <sub>408</sub>	55.84 <sub>234</sub>	9.616 <sub>312</sub>	52.39 <sub>222</sub>
Dez. 5.8	2.539 <sub>323</sub>	68.70 <sub>207</sub>	12.13 <sub>68</sub>	42.64 <sub>160</sub>	60.870 <sub>432</sub>	53.50 <sub>196</sub>	9.928 <sub>327</sub>	50.17 <sub>216</sub>
15.7	2.862 <sub>324</sub>	70.77 <sub>211</sub>	12.81 <sub>68</sub>	41.04 <sub>103</sub>	61.302 <sub>441</sub>	51.54 <sub>152</sub>	10.255 <sub>334</sub>	48.01 <sub>204</sub>
25.7	3.186 <sub>317</sub>	72.88 <sub>209</sub>	13.49 <sub>69</sub>	40.01 <sub>43</sub>	61.743 <sub>438</sub>	50.02 <sub>101</sub>	10.589 <sub>328</sub>	45.97 <sub>185</sub>
35.7	3.503	74.97	14.18	39.58	62.181	49.01	10.917	44.12
Mittl. Ort sec $\delta$ , tg $\delta$	0.371 1.000	54.81 -0.007	11.56 2.578	76.41 +2.376	59.476 1.501	82.93 +1.119	8.017 1.035	69.18 +0.268

Mittlere Zeit Greenw.	445) $\beta$ Virginis		447) $\gamma$ Ursae maj.		450) $\sigma$ Virginis		452) $\delta$ Centauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$11^h 46^m$	$+2^\circ 11'$	$11^h 49^m$	$+54^\circ 6'$	$12^h 1^m$	$+9^\circ 9'$	$12^h 4^m$	$-5^\circ 17'$
Jan. 0.7	41.245 <sub>312</sub>	52.98 <sub>200</sub>	46.786 <sub>473</sub>	65.27 <sub>59</sub>	17.268 <sub>318</sub>	33.95 <sub>188</sub>	22.599 <sub>430</sub>	21.52 <sub>221</sub>
10.7	41.557 <sub>290</sub>	50.98 <sub>185</sub>	47.259 <sub>445</sub>	64.68 <sub>2</sub>	17.586 <sub>298</sub>	32.07 <sub>166</sub>	23.029 <sub>398</sub>	23.73 <sub>259</sub>
20.7	41.847 <sub>259</sub>	49.13 <sub>163</sub>	47.704 <sub>403</sub>	64.66 <sub>55</sub>	17.884 <sub>271</sub>	30.41 <sub>138</sub>	23.427 <sub>357</sub>	26.32 <sub>287</sub>
30.6	42.106 <sub>222</sub>	47.50 <sub>139</sub>	48.107 <sub>348</sub>	65.21 <sub>109</sub>	18.155 <sub>235</sub>	29.03 <sub>109</sub>	23.784 <sub>306</sub>	29.19 <sub>307</sub>
Feb. 9.6	42.328 <sub>181</sub>	46.11 <sub>112</sub>	48.455 <sub>283</sub>	66.30 <sub>157</sub>	18.390 <sub>194</sub>	27.94 <sub>75</sub>	24.090 <sub>252</sub>	32.26 <sub>320</sub>
19.6	42.509 <sub>137</sub>	44.99 <sub>83</sub>	48.738 <sub>213</sub>	67.87 <sub>197</sub>	18.584 <sub>152</sub>	27.19 <sub>44</sub>	24.342 <sub>193</sub>	35.46 <sub>323</sub>
März 1.6	42.646 <sub>94</sub>	44.16 <sub>56</sub>	48.951 <sub>138</sub>	69.84 <sub>229</sub>	18.736 <sub>108</sub>	26.75 <sub>14</sub>	24.535 <sub>136</sub>	38.69 <sub>321</sub>
11.5	42.740 <sub>53</sub>	43.60 <sub>29</sub>	49.089 <sub>66</sub>	72.13 <sub>249</sub>	18.844 <sub>67</sub>	26.61 <sub>14</sub>	24.671 <sub>78</sub>	41.90 <sub>310</sub>
21.5	42.793 <sub>16</sub>	43.31 <sub>6</sub>	49.155 <sub>4</sub>	74.62 <sub>259</sub>	18.911 <sub>29</sub>	26.75 <sub>37</sub>	24.749 <sub>26</sub>	45.00 <sub>293</sub>
31.5	42.809 <sub>17</sub>	43.25 <sub>14</sub>	49.151 <sub>67</sub>	77.21 <sub>258</sub>	18.940 <sub>6</sub>	27.12 <sub>57</sub>	24.775 <sub>23</sub>	47.93 <sub>271</sub>
Apr. 10.4	42.792 <sub>43</sub>	43.39 <sub>32</sub>	49.084 <sub>122</sub>	79.79 <sub>247</sub>	18.934 <sub>34</sub>	27.69 <sub>71</sub>	24.752 <sub>66</sub>	50.64 <sub>245</sub>
20.4	42.749 <sub>66</sub>	43.71 <sub>45</sub>	48.962 <sub>167</sub>	82.26 <sub>228</sub>	18.900 <sub>58</sub>	28.40 <sub>81</sub>	24.686 <sub>106</sub>	53.09 <sub>213</sub>
30.4	42.683 <sub>83</sub>	44.16 <sub>55</sub>	48.795 <sub>204</sub>	84.54 <sub>199</sub>	18.842 <sub>78</sub>	29.21 <sub>87</sub>	24.580 <sub>138</sub>	55.22 <sub>179</sub>
Mai 10.4	42.600 <sub>95</sub>	44.71 <sub>63</sub>	48.591 <sub>230</sub>	86.53 <sub>165</sub>	18.764 <sub>92</sub>	30.08 <sub>88</sub>	24.442 <sub>168</sub>	57.01 <sub>142</sub>
20.3	42.505 <sub>103</sub>	45.34 <sub>68</sub>	48.361 <sub>246</sub>	88.18 <sub>126</sub>	18.672 <sub>102</sub>	30.96 <sub>87</sub>	24.274 <sub>191</sub>	58.43 <sub>101</sub>
30.3	42.402 <sub>108</sub>	46.02 <sub>70</sub>	48.115 <sub>255</sub>	89.44 <sub>84</sub>	18.570 <sub>109</sub>	31.83 <sub>83</sub>	24.083 <sub>208</sub>	59.44 <sub>59</sub>
Juni 9.3	42.294 <sub>108</sub>	46.72 <sub>71</sub>	47.860 <sub>256</sub>	90.28 <sub>39</sub>	18.461 <sub>111</sub>	32.66 <sub>76</sub>	23.875 <sub>222</sub>	60.03 <sub>15</sub>
19.3	42.186 <sub>108</sub>	47.43 <sub>69</sub>	47.604 <sub>249</sub>	90.67 <sub>7</sub>	18.350 <sub>112</sub>	33.42 <sub>68</sub>	23.653 <sub>229</sub>	60.18 <sub>27</sub>
29.2	42.078 <sub>102</sub>	48.12 <sub>66</sub>	47.355 <sub>235</sub>	90.60 <sub>51</sub>	18.238 <sub>110</sub>	34.10 <sub>57</sub>	23.424 <sub>230</sub>	59.91 <sub>70</sub>
Juli 9.2	41.976 <sub>95</sub>	48.78 <sub>61</sub>	47.120 <sub>216</sub>	90.09 <sub>95</sub>	18.128 <sub>104</sub>	34.67 <sub>45</sub>	23.194 <sub>224</sub>	59.21 <sub>111</sub>
19.2	41.881 <sub>85</sub>	49.39 <sub>54</sub>	46.904 <sub>191</sub>	89.14 <sub>137</sub>	18.024 <sub>95</sub>	35.12 <sub>32</sub>	22.970 <sub>212</sub>	58.10 <sub>148</sub>
29.1	41.796 <sub>71</sub>	49.93 <sub>44</sub>	46.713 <sub>162</sub>	87.77 <sub>176</sub>	17.929 <sub>82</sub>	35.44 <sub>17</sub>	22.758 <sub>192</sub>	56.62 <sub>181</sub>
Aug. 8.1	41.725 <sub>53</sub>	50.37 <sub>33</sub>	46.551 <sub>126</sub>	86.01 <sub>211</sub>	17.847 <sub>67</sub>	35.61 <sub>0</sub>	22.566 <sub>162</sub>	54.81 <sub>208</sub>
18.1	41.672 <sub>33</sub>	50.70 <sub>18</sub>	46.425 <sub>87</sub>	83.90 <sub>243</sub>	17.780 <sub>46</sub>	35.61 <sub>19</sub>	22.404 <sub>127</sub>	52.73 <sub>229</sub>
28.1	41.639 <sub>6</sub>	50.88 <sub>1</sub>	46.338 <sub>42</sub>	81.47 <sub>271</sub>	17.734 <sub>22</sub>	35.42 <sub>38</sub>	22.277 <sub>81</sub>	50.44 <sub>241</sub>
Sept. 7.0	41.633 <sub>23</sub>	50.89 <sub>18</sub>	46.296 <sub>7</sub>	78.76 <sub>294</sub>	17.712 <sub>7</sub>	35.04 <sub>60</sub>	22.196 <sub>29</sub>	48.03 <sub>245</sub>
17.0	41.656 <sub>58</sub>	50.71 <sub>42</sub>	46.303 <sub>61</sub>	75.82 <sub>311</sub>	17.719 <sub>41</sub>	34.44 <sub>83</sub>	22.167 <sub>29</sub>	45.58 <sub>238</sub>
27.0	41.714 <sub>94</sub>	50.29 <sub>67</sub>	46.364 <sub>119</sub>	72.71 <sub>322</sub>	17.760 <sub>78</sub>	33.61 <sub>107</sub>	22.196 <sub>93</sub>	43.20 <sub>223</sub>
Okt. 7.0	41.808 <sub>135</sub>	49.62 <sub>92</sub>	46.483 <sub>179</sub>	69.49 <sub>328</sub>	17.838 <sub>119</sub>	32.54 <sub>131</sub>	22.289 <sub>158</sub>	40.97 <sub>196</sub>
16.9	41.943 <sub>174</sub>	48.70 <sub>118</sub>	46.662 <sub>239</sub>	66.21 <sub>326</sub>	17.957 <sub>160</sub>	31.23 <sub>154</sub>	22.447 <sub>224</sub>	39.01 <sub>162</sub>
26.9	42.117 <sub>215</sub>	47.52 <sub>144</sub>	46.901 <sub>299</sub>	62.95 <sub>317</sub>	18.117 <sub>201</sub>	29.69 <sub>176</sub>	22.671 <sub>286</sub>	37.39 <sub>119</sub>
Nov. 5.9	42.332 <sub>251</sub>	46.08 <sub>167</sub>	47.200 <sub>356</sub>	59.78 <sub>299</sub>	18.318 <sub>240</sub>	27.93 <sub>194</sub>	22.957 <sub>341</sub>	36.20 <sub>69</sub>
15.8	42.583 <sub>282</sub>	44.41 <sub>187</sub>	47.556 <sub>405</sub>	56.79 <sub>273</sub>	18.558 <sub>274</sub>	25.99 <sub>207</sub>	23.298 <sub>388</sub>	35.51 <sub>16</sub>
25.8	42.865 <sub>307</sub>	42.54 <sub>201</sub>	47.961 <sub>445</sub>	54.06 <sub>239</sub>	18.832 <sub>301</sub>	23.92 <sub>216</sub>	23.686 <sub>423</sub>	35.35 <sub>40</sub>
Dez. 5.8	43.172 <sub>322</sub>	40.53 <sub>210</sub>	48.406 <sub>473</sub>	51.67 <sub>197</sub>	19.133 <sub>320</sub>	21.76 <sub>217</sub>	24.109 <sub>443</sub>	35.75 <sub>94</sub>
15.8	43.494 <sub>327</sub>	38.43 <sub>212</sub>	48.879 <sub>488</sub>	49.70 <sub>149</sub>	19.453 <sub>328</sub>	19.59 <sub>212</sub>	24.552 <sub>449</sub>	36.69 <sub>147</sub>
25.7	43.821 <sub>322</sub>	36.31 <sub>207</sub>	49.367 <sub>485</sub>	48.21 <sub>95</sub>	19.781 <sub>326</sub>	17.47 <sub>199</sub>	25.001 <sub>441</sub>	38.16 <sub>195</sub>
35.7	44.143	34.24	49.852	47.26	20.107	15.48	25.442	40.11
Mittl. Ort	41.062	55.16	47.305	82.20	17.247	37.94	21.603	36.92
sec $\delta$ , tg $\delta$	1.001	+0.038	1.706	+1.383	1.013	+0.161	1.565	-1.204



Mittlere Zeit Greenw.	453) $\epsilon$ Corvi		454) $\gamma$ H. Draconis		456) $\delta$ Ursae maj.		459) $\beta$ Chamael.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	$12^{\text{h}} 6^{\text{m}}$	$-22^{\circ} 11'$	$12^{\text{h}} 8^{\text{m}}$	$+78^{\circ} 2'$	$12^{\text{h}} 11^{\text{m}}$	$+57^{\circ} 27'$	$12^{\text{h}} 13^{\text{m}}$	$-78^{\circ} 52'$
1923								
Jan. 0.7	10.060 <sup>330</sup>	22.42 <sup>226</sup>	34.29 <sup>117</sup>	19.44 <sup>15</sup>	36.568 <sup>512</sup>	20.28 <sup>75</sup>	51.69 <sup>120</sup>	44.30 <sup>164</sup>
10.7	10.390 <sup>309</sup>	24.68 <sup>237</sup>	35.46 <sup>112</sup>	19.29 <sup>51</sup>	37.080 <sup>489</sup>	19.53 <sup>16</sup>	52.89 <sup>112</sup>	45.94 <sup>219</sup>
20.7	10.699 <sup>279</sup>	27.05 <sup>241</sup>	36.58 <sup>104</sup>	19.80 <sup>113</sup>	37.569 <sup>452</sup>	19.37 <sup>45</sup>	54.01 <sup>101</sup>	48.13 <sup>267</sup>
30.6	10.978 <sup>242</sup>	29.46 <sup>237</sup>	37.62 <sup>91</sup>	20.93 <sup>172</sup>	38.021 <sup>398</sup>	19.82 <sup>101</sup>	55.02 <sup>87</sup>	50.80 <sup>307</sup>
Feb. 9.6	11.220 <sup>201</sup>	31.83 <sup>228</sup>	38.53 <sup>76</sup>	22.65 <sup>222</sup>	38.419 <sup>335</sup>	20.83 <sup>154</sup>	55.89 <sup>72</sup>	53.87 <sup>338</sup>
19.6	11.421 <sup>157</sup>	34.11 <sup>214</sup>	39.29 <sup>58</sup>	24.87 <sup>264</sup>	38.754 <sup>261</sup>	22.37 <sup>199</sup>	56.61 <sup>55</sup>	57.25 <sup>360</sup>
März 1.6	11.578 <sup>114</sup>	36.25 <sup>196</sup>	39.87 <sup>39</sup>	27.51 <sup>292</sup>	39.015 <sup>184</sup>	24.36 <sup>233</sup>	57.16 <sup>37</sup>	60.85 <sup>374</sup>
11.5	11.692 <sup>72</sup>	38.21 <sup>174</sup>	40.26 <sup>19</sup>	30.43 <sup>311</sup>	39.199 <sup>166</sup>	26.69 <sup>259</sup>	57.53 <sup>20</sup>	64.59 <sup>378</sup>
21.5	11.764 <sup>34</sup>	39.95 <sup>152</sup>	40.45 <sup>2</sup>	33.54 <sup>315</sup>	39.305 <sup>30</sup>	29.28 <sup>272</sup>	57.73 <sup>3</sup>	68.37 <sup>373</sup>
31.5	11.798 <sup>0</sup>	41.47 <sup>128</sup>	40.43 <sup>21</sup>	36.69 <sup>308</sup>	39.335 <sup>41</sup>	32.00 <sup>275</sup>	57.76 <sup>13</sup>	72.10 <sup>363</sup>
Apr. 10.5	11.798 <sup>30</sup>	42.75 <sup>104</sup>	40.22 <sup>38</sup>	39.77 <sup>289</sup>	39.294 <sup>105</sup>	34.75 <sup>267</sup>	57.63 <sup>29</sup>	75.73 <sup>342</sup>
20.4	11.768 <sup>56</sup>	43.79 <sup>78</sup>	39.84 <sup>53</sup>	42.66 <sup>260</sup>	39.189 <sup>159</sup>	37.42 <sup>248</sup>	57.34 <sup>44</sup>	79.15 <sup>315</sup>
30.4	11.712 <sup>77</sup>	44.57 <sup>54</sup>	39.31 <sup>67</sup>	45.26 <sup>223</sup>	39.030 <sup>205</sup>	39.90 <sup>222</sup>	56.90 <sup>57</sup>	82.30 <sup>283</sup>
Mai 10.4	11.635 <sup>93</sup>	45.11 <sup>29</sup>	38.64 <sup>77</sup>	47.49 <sup>176</sup>	38.825 <sup>239</sup>	42.12 <sup>188</sup>	56.33 <sup>70</sup>	85.13 <sup>243</sup>
20.3	11.542 <sup>107</sup>	45.40 <sup>5</sup>	37.87 <sup>84</sup>	49.25 <sup>127</sup>	38.586 <sup>265</sup>	44.00 <sup>148</sup>	55.63 <sup>79</sup>	87.56 <sup>199</sup>
30.3	11.435 <sup>117</sup>	45.45 <sup>18</sup>	37.03 <sup>89</sup>	50.52 <sup>74</sup>	38.321 <sup>281</sup>	45.48 <sup>105</sup>	54.84 <sup>88</sup>	89.55 <sup>150</sup>
Juni 9.3	11.318 <sup>123</sup>	45.27 <sup>41</sup>	36.14 <sup>90</sup>	51.26 <sup>18</sup>	38.040 <sup>288</sup>	46.53 <sup>58</sup>	53.96 <sup>94</sup>	91.05 <sup>99</sup>
19.3	11.195 <sup>127</sup>	44.86 <sup>63</sup>	35.24 <sup>90</sup>	51.44 <sup>37</sup>	37.752 <sup>287</sup>	47.11 <sup>11</sup>	53.02 <sup>98</sup>	92.04 <sup>43</sup>
29.2	11.068 <sup>127</sup>	44.23 <sup>82</sup>	34.34 <sup>87</sup>	51.07 <sup>92</sup>	37.465 <sup>279</sup>	47.22 <sup>36</sup>	52.04 <sup>99</sup>	92.47 <sup>11</sup>
Juli 9.2	10.941 <sup>123</sup>	43.41 <sup>100</sup>	33.47 <sup>82</sup>	50.15 <sup>143</sup>	37.186 <sup>263</sup>	46.86 <sup>84</sup>	51.05 <sup>97</sup>	92.36 <sup>67</sup>
19.2	10.818 <sup>116</sup>	42.41 <sup>115</sup>	32.65 <sup>75</sup>	48.72 <sup>192</sup>	36.923 <sup>241</sup>	46.02 <sup>129</sup>	50.08 <sup>93</sup>	91.69 <sup>120</sup>
29.2	10.702 <sup>103</sup>	41.26 <sup>125</sup>	31.90 <sup>66</sup>	46.80 <sup>237</sup>	36.682 <sup>213</sup>	44.73 <sup>171</sup>	49.15 <sup>85</sup>	90.49 <sup>170</sup>
Aug. 8.1	10.599 <sup>87</sup>	40.01 <sup>132</sup>	31.24 <sup>55</sup>	44.43 <sup>275</sup>	36.469 <sup>178</sup>	43.02 <sup>210</sup>	48.30 <sup>75</sup>	88.79 <sup>215</sup>
18.1	10.512 <sup>65</sup>	38.69 <sup>134</sup>	30.69 <sup>43</sup>	41.68 <sup>309</sup>	36.291 <sup>138</sup>	40.92 <sup>246</sup>	47.55 <sup>61</sup>	86.64 <sup>252</sup>
28.1	10.447 <sup>37</sup>	37.35 <sup>130</sup>	30.26 <sup>31</sup>	38.59 <sup>337</sup>	36.153 <sup>91</sup>	38.46 <sup>276</sup>	46.94 <sup>44</sup>	84.12 <sup>282</sup>
Sept. 7.0	10.410 <sup>4</sup>	36.05 <sup>120</sup>	29.95 <sup>16</sup>	35.22 <sup>357</sup>	36.062 <sup>39</sup>	35.70 <sup>302</sup>	46.50 <sup>26</sup>	81.30 <sup>301</sup>
17.0	10.406 <sup>34</sup>	34.85 <sup>103</sup>	29.79 <sup>1</sup>	31.65 <sup>371</sup>	36.023 <sup>19</sup>	32.68 <sup>322</sup>	46.24 <sup>6</sup>	78.29 <sup>309</sup>
27.0	10.440 <sup>77</sup>	33.82 <sup>81</sup>	29.78 <sup>14</sup>	27.94 <sup>376</sup>	36.042 <sup>80</sup>	29.46 <sup>336</sup>	46.18 <sup>15</sup>	75.20 <sup>307</sup>
Okt. 7.0	10.517 <sup>121</sup>	33.01 <sup>52</sup>	29.92 <sup>31</sup>	24.18 <sup>375</sup>	36.122 <sup>147</sup>	26.10 <sup>344</sup>	46.33 <sup>36</sup>	72.13 <sup>291</sup>
16.9	10.638 <sup>167</sup>	32.49 <sup>20</sup>	30.23 <sup>46</sup>	20.43 <sup>363</sup>	36.269 <sup>214</sup>	22.66 <sup>344</sup>	46.69 <sup>57</sup>	69.22 <sup>265</sup>
26.9	10.805 <sup>213</sup>	32.29 <sup>17</sup>	30.69 <sup>63</sup>	16.80 <sup>344</sup>	36.483 <sup>281</sup>	19.22 <sup>336</sup>	47.26 <sup>77</sup>	66.57 <sup>226</sup>
Nov. 5.9	11.018 <sup>254</sup>	32.46 <sup>56</sup>	31.32 <sup>78</sup>	13.36 <sup>316</sup>	36.764 <sup>347</sup>	15.86 <sup>320</sup>	48.03 <sup>93</sup>	64.31 <sup>178</sup>
15.9	11.272 <sup>289</sup>	33.02 <sup>94</sup>	32.10 <sup>91</sup>	10.20 <sup>278</sup>	37.111 <sup>405</sup>	12.66 <sup>294</sup>	48.96 <sup>107</sup>	62.53 <sup>123</sup>
25.8	11.561 <sup>317</sup>	33.96 <sup>132</sup>	33.01 <sup>103</sup>	7.42 <sup>233</sup>	37.516 <sup>453</sup>	9.72 <sup>259</sup>	50.03 <sup>118</sup>	61.30 <sup>63</sup>
Dez. 5.8	11.878 <sup>336</sup>	35.28 <sup>165</sup>	34.04 <sup>111</sup>	5.09 <sup>179</sup>	37.969 <sup>492</sup>	7.13 <sup>218</sup>	51.21 <sup>123</sup>	60.67 <sup>2</sup>
15.8	12.214 <sup>342</sup>	36.93 <sup>194</sup>	35.15 <sup>118</sup>	3.30 <sup>120</sup>	38.461 <sup>514</sup>	4.95 <sup>168</sup>	52.44 <sup>126</sup>	60.69 <sup>65</sup>
25.7	12.556 <sup>339</sup>	38.87 <sup>216</sup>	36.33 <sup>119</sup>	2.10 <sup>57</sup>	38.975 <sup>520</sup>	3.27 <sup>113</sup>	53.70 <sup>123</sup>	61.34 <sup>129</sup>
35.7	12.895	41.03	37.52	1.53	39.495	2.14	54.93	62.63
Mittl. Ort see $\delta$ , $\eta$ $\delta$	9.685 1.080	29.58 -0.408	36.66 4.828	38.67 -4.723	37.400 1.859	37.12 -1.567	47.78 5.187	65.09 -5.090

Mittlere Zeit Greenw.	460) $\eta$ Virginis		462) $\alpha$ Crucis med.		466) $20$ Comae		465) $\delta$ Corvi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	$12^h 15^m$	$-0^\circ 14'$	$12^h 22^m$	$-62^\circ 40'$	$12^h 25^m$	$+21^\circ 18'$	$12^h 25^m$	$-16^\circ 5'$
1923								
Jan. 0.7	57.991 <sup>317</sup>	20.52 <sup>205</sup>	19.81 <sup>57</sup>	3.46 <sup>184</sup>	51.007 <sup>336</sup>	73.18 <sup>175</sup>	52.820 <sup>327</sup>	6.92 <sup>215</sup>
10.7	58.308 <sup>301</sup>	22.57 <sup>193</sup>	20.38 <sup>54</sup>	5.30 <sup>232</sup>	51.343 <sup>322</sup>	71.43 <sup>141</sup>	53.147 <sup>311</sup>	9.07 <sup>221</sup>
20.7	58.609 <sup>274</sup>	24.50 <sup>175</sup>	20.92 <sup>49</sup>	7.62 <sup>272</sup>	51.665 <sup>298</sup>	70.02 <sup>102</sup>	53.458 <sup>285</sup>	11.28 <sup>220</sup>
30.6	58.883 <sup>242</sup>	26.25 <sup>152</sup>	21.41 <sup>43</sup>	10.34 <sup>304</sup>	51.963 <sup>265</sup>	69.00 <sup>62</sup>	53.743 <sup>252</sup>	13.48 <sup>212</sup>
Feb. 9.6	59.125 <sup>203</sup>	27.77 <sup>126</sup>	21.84 <sup>35</sup>	13.38 <sup>327</sup>	52.228 <sup>226</sup>	68.38 <sup>21</sup>	53.995 <sup>214</sup>	15.60 <sup>198</sup>
19.6	59.328 <sup>163</sup>	29.03 <sup>99</sup>	22.19 <sup>29</sup>	16.65 <sup>341</sup>	52.454 <sup>184</sup>	68.17 <sup>18</sup>	54.209 <sup>174</sup>	17.58 <sup>182</sup>
März 1.6	59.491 <sup>121</sup>	30.02 <sup>71</sup>	22.48 <sup>21</sup>	20.06 <sup>349</sup>	52.638 <sup>139</sup>	68.35 <sup>53</sup>	54.383 <sup>133</sup>	19.40 <sup>161</sup>
11.5	59.612 <sup>81</sup>	30.73 <sup>45</sup>	22.69 <sup>13</sup>	23.55 <sup>347</sup>	52.777 <sup>95</sup>	68.88 <sup>85</sup>	54.516 <sup>93</sup>	21.01 <sup>139</sup>
21.5	59.693 <sup>45</sup>	31.18 <sup>19</sup>	22.82 <sup>6</sup>	27.02 <sup>337</sup>	52.872 <sup>53</sup>	69.73 <sup>108</sup>	54.609 <sup>55</sup>	22.40 <sup>116</sup>
31.5	59.738 <sup>11</sup>	31.37 <sup>2</sup>	22.88 <sup>1</sup>	30.39 <sup>323</sup>	52.925 <sup>16</sup>	70.81 <sup>128</sup>	54.664 <sup>22</sup>	23.56 <sup>94</sup>
Apr. 10.5	59.749 <sup>18</sup>	31.35 <sup>20</sup>	22.87 <sup>7</sup>	33.62 <sup>299</sup>	52.941 <sup>18</sup>	72.09 <sup>138</sup>	54.686 <sup>9</sup>	24.50 <sup>71</sup>
20.4	59.731 <sup>43</sup>	31.15 <sup>37</sup>	22.80 <sup>13</sup>	36.61 <sup>272</sup>	52.923 <sup>46</sup>	73.47 <sup>143</sup>	54.677 <sup>34</sup>	25.21 <sup>49</sup>
30.4	59.688 <sup>62</sup>	30.78 <sup>48</sup>	22.67 <sup>19</sup>	39.33 <sup>239</sup>	52.877 <sup>70</sup>	74.90 <sup>142</sup>	54.643 <sup>56</sup>	25.70 <sup>28</sup>
Mai 10.4	59.626 <sup>79</sup>	30.30 <sup>58</sup>	22.48 <sup>23</sup>	41.72 <sup>201</sup>	52.807 <sup>88</sup>	76.32 <sup>135</sup>	54.587 <sup>75</sup>	25.98 <sup>9</sup>
20.3	59.547 <sup>91</sup>	29.72 <sup>64</sup>	22.25 <sup>27</sup>	43.73 <sup>160</sup>	52.719 <sup>104</sup>	77.67 <sup>124</sup>	54.512 <sup>90</sup>	26.07 <sup>10</sup>
30.3	59.456 <sup>100</sup>	29.08 <sup>68</sup>	21.98 <sup>31</sup>	45.33 <sup>114</sup>	52.615 <sup>114</sup>	78.91 <sup>108</sup>	54.422 <sup>102</sup>	25.97 <sup>27</sup>
Juni 9.3	59.356 <sup>107</sup>	28.40 <sup>71</sup>	21.67 <sup>33</sup>	46.47 <sup>66</sup>	52.501 <sup>122</sup>	79.99 <sup>90</sup>	54.320 <sup>111</sup>	25.70 <sup>44</sup>
19.3	59.249 <sup>109</sup>	27.69 <sup>70</sup>	21.34 <sup>35</sup>	47.13 <sup>18</sup>	52.379 <sup>125</sup>	80.89 <sup>70</sup>	54.209 <sup>117</sup>	25.26 <sup>59</sup>
29.2	59.140 <sup>110</sup>	26.99 <sup>70</sup>	20.99 <sup>36</sup>	47.31 <sup>32</sup>	52.254 <sup>125</sup>	81.59 <sup>47</sup>	54.092 <sup>120</sup>	24.67 <sup>73</sup>
Juli 9.2	59.030 <sup>107</sup>	26.29 <sup>65</sup>	20.63 <sup>36</sup>	46.99 <sup>80</sup>	52.129 <sup>123</sup>	82.06 <sup>24</sup>	53.972 <sup>120</sup>	23.94 <sup>84</sup>
19.2	58.923 <sup>101</sup>	25.64 <sup>60</sup>	20.27 <sup>34</sup>	46.19 <sup>127</sup>	52.006 <sup>116</sup>	82.30 <sup>1</sup>	53.852 <sup>116</sup>	23.10 <sup>94</sup>
29.2	58.822 <sup>92</sup>	25.04 <sup>53</sup>	19.93 <sup>32</sup>	44.92 <sup>169</sup>	51.890 <sup>106</sup>	82.29 <sup>26</sup>	53.736 <sup>107</sup>	22.16 <sup>100</sup>
Aug. 8.1	58.730 <sup>78</sup>	24.51 <sup>42</sup>	19.61 <sup>28</sup>	43.23 <sup>207</sup>	51.784 <sup>92</sup>	82.03 <sup>52</sup>	53.629 <sup>94</sup>	21.16 <sup>102</sup>
18.1	58.652 <sup>59</sup>	24.09 <sup>29</sup>	19.33 <sup>23</sup>	41.16 <sup>238</sup>	51.692 <sup>72</sup>	81.51 <sup>77</sup>	53.535 <sup>75</sup>	20.14 <sup>101</sup>
28.1	58.593 <sup>35</sup>	23.80 <sup>13</sup>	19.10 <sup>17</sup>	38.78 <sup>260</sup>	51.620 <sup>49</sup>	80.74 <sup>103</sup>	53.460 <sup>51</sup>	19.13 <sup>94</sup>
Sept. 7.0	58.558 <sup>8</sup>	23.67 <sup>4</sup>	18.93 <sup>10</sup>	36.18 <sup>274</sup>	51.571 <sup>20</sup>	79.71 <sup>129</sup>	53.409 <sup>21</sup>	18.19 <sup>84</sup>
17.0	58.550 <sup>27</sup>	23.71 <sup>27</sup>	18.83 <sup>1</sup>	33.44 <sup>277</sup>	51.551 <sup>14</sup>	78.42 <sup>154</sup>	53.388 <sup>14</sup>	17.35 <sup>67</sup>
27.0	58.577 <sup>63</sup>	23.98 <sup>50</sup>	18.82 <sup>7</sup>	30.67 <sup>269</sup>	51.565 <sup>53</sup>	76.88 <sup>177</sup>	53.402 <sup>55</sup>	16.68 <sup>46</sup>
Okt. 7.0	58.640 <sup>105</sup>	24.48 <sup>76</sup>	18.89 <sup>17</sup>	27.98 <sup>251</sup>	51.618 <sup>95</sup>	75.11 <sup>200</sup>	53.457 <sup>98</sup>	16.22 <sup>19</sup>
16.9	58.745 <sup>146</sup>	25.24 <sup>103</sup>	19.06 <sup>26</sup>	25.47 <sup>221</sup>	51.713 <sup>138</sup>	73.11 <sup>218</sup>	53.555 <sup>144</sup>	16.03 <sup>10</sup>
26.9	58.891 <sup>190</sup>	26.27 <sup>130</sup>	19.32 <sup>34</sup>	23.26 <sup>183</sup>	51.851 <sup>184</sup>	70.93 <sup>234</sup>	53.699 <sup>189</sup>	16.13 <sup>43</sup>
Nov. 5.9	59.081 <sup>230</sup>	27.57 <sup>155</sup>	19.66 <sup>43</sup>	21.43 <sup>135</sup>	52.035 <sup>227</sup>	68.59 <sup>244</sup>	53.888 <sup>232</sup>	16.56 <sup>78</sup>
15.9	59.311 <sup>264</sup>	29.12 <sup>177</sup>	20.09 <sup>49</sup>	20.08 <sup>81</sup>	52.262 <sup>266</sup>	66.15 <sup>249</sup>	54.120 <sup>269</sup>	17.34 <sup>112</sup>
25.8	59.575 <sup>294</sup>	30.89 <sup>194</sup>	20.58 <sup>54</sup>	19.27 <sup>23</sup>	52.528 <sup>299</sup>	63.66 <sup>247</sup>	54.389 <sup>300</sup>	18.46 <sup>142</sup>
Dez. 5.8	59.869 <sup>314</sup>	32.83 <sup>206</sup>	21.12 <sup>57</sup>	19.04 <sup>37</sup>	52.827 <sup>324</sup>	61.19 <sup>236</sup>	54.689 <sup>322</sup>	19.88 <sup>171</sup>
15.8	60.183 <sup>325</sup>	34.89 <sup>212</sup>	21.69 <sup>59</sup>	19.41 <sup>97</sup>	53.151 <sup>338</sup>	58.83 <sup>219</sup>	55.011 <sup>332</sup>	21.59 <sup>193</sup>
25.7	60.508 <sup>324</sup>	37.01 <sup>210</sup>	22.28 <sup>58</sup>	20.38 <sup>152</sup>	53.489 <sup>342</sup>	56.64 <sup>195</sup>	55.343 <sup>333</sup>	23.52 <sup>210</sup>
35.7	60.832	39.11	22.86	21.90	53.831	54.69	55.676	25.62
Mittl. Ort sec $\delta$ , $\log \delta$	57.951 1.000	20.43 -0.004	18.47 2.178	22.41 -1.935	51.275 1.073	80.27 +0.390	52.653 1.041	12.87 -0.288

Mittlere Zeit Greenw.	470) 8 Canum ven.		472) $\alpha$ Draconis		471) $\beta$ Corvi		473) 24 Comae sq.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	12 <sup>h</sup> 30 <sup>m</sup>	+41° 46'	12 <sup>h</sup> 30 <sup>m</sup>	+70° 12'	12 <sup>h</sup> 30 <sup>m</sup>	-22° 58'	12 <sup>h</sup> 31 <sup>m</sup>	+18° 47'
Jan. 0.7	4.804 <sup>395</sup>	19.39 <sup>136</sup>	10.56 <sup>76</sup>	27.07 <sup>66</sup>	20.523 <sup>338</sup>	7.55 <sup>213</sup>	15.865 <sup>333</sup>	56.67 <sup>182</sup>
10.7	5.199 <sup>381</sup>	18.03 <sup>84</sup>	11.32 <sup>73</sup>	26.41 <sup>1</sup>	20.861 <sup>322</sup>	9.68 <sup>227</sup>	16.198 <sup>320</sup>	54.85 <sup>150</sup>
20.7	5.580 <sup>355</sup>	17.19 <sup>30</sup>	12.05 <sup>69</sup>	26.40 <sup>64</sup>	21.183 <sup>296</sup>	11.95 <sup>233</sup>	16.518 <sup>296</sup>	53.35 <sup>114</sup>
30.7	5.935 <sup>317</sup>	16.89 <sup>23</sup>	12.74 <sup>62</sup>	27.04 <sup>125</sup>	21.479 <sup>263</sup>	14.28 <sup>231</sup>	16.814 <sup>265</sup>	52.21 <sup>75</sup>
Feb. 9.6	6.252 <sup>273</sup>	17.12 <sup>75</sup>	13.36 <sup>53</sup>	28.29 <sup>181</sup>	21.742 <sup>224</sup>	16.59 <sup>225</sup>	17.079 <sup>228</sup>	51.46 <sup>36</sup>
19.6	6.525 <sup>221</sup>	17.87 <sup>121</sup>	13.89 <sup>43</sup>	30.10 <sup>228</sup>	21.966 <sup>183</sup>	18.84 <sup>212</sup>	17.307 <sup>185</sup>	51.10 <sup>3</sup>
März 1.6	6.746 <sup>166</sup>	19.08 <sup>160</sup>	14.32 <sup>31</sup>	32.38 <sup>265</sup>	22.149 <sup>141</sup>	20.96 <sup>196</sup>	17.492 <sup>143</sup>	51.13 <sup>39</sup>
11.6	6.912 <sup>110</sup>	20.68 <sup>192</sup>	14.63 <sup>19</sup>	35.03 <sup>290</sup>	22.290 <sup>100</sup>	22.92 <sup>178</sup>	17.635 <sup>100</sup>	51.52 <sup>69</sup>
21.5	7.022 <sup>57</sup>	22.60 <sup>213</sup>	14.82 <sup>7</sup>	37.93 <sup>305</sup>	22.390 <sup>61</sup>	24.70 <sup>156</sup>	17.735 <sup>59</sup>	52.21 <sup>95</sup>
31.5	7.079 <sup>8</sup>	24.73 <sup>227</sup>	14.89 <sup>5</sup>	40.98 <sup>306</sup>	22.451 <sup>27</sup>	26.26 <sup>134</sup>	17.794 <sup>22</sup>	53.16 <sup>114</sup>
Apr. 10.5	7.087 <sup>38</sup>	27.00 <sup>230</sup>	14.84 <sup>15</sup>	44.04 <sup>295</sup>	22.478 <sup>4</sup>	27.60 <sup>111</sup>	17.816 <sup>10</sup>	54.30 <sup>127</sup>
20.4	7.049 <sup>76</sup>	29.30 <sup>223</sup>	14.69 <sup>26</sup>	46.99 <sup>275</sup>	22.474 <sup>33</sup>	28.71 <sup>87</sup>	17.806 <sup>39</sup>	55.57 <sup>133</sup>
30.4	6.973 <sup>109</sup>	31.53 <sup>209</sup>	14.43 <sup>33</sup>	49.74 <sup>245</sup>	22.441 <sup>55</sup>	29.58 <sup>63</sup>	17.767 <sup>63</sup>	56.90 <sup>135</sup>
Mai 10.4	6.864 <sup>136</sup>	33.62 <sup>188</sup>	14.10 <sup>41</sup>	52.19 <sup>206</sup>	22.386 <sup>76</sup>	30.21 <sup>41</sup>	17.704 <sup>82</sup>	58.25 <sup>129</sup>
20.4	6.728 <sup>156</sup>	35.50 <sup>161</sup>	13.69 <sup>46</sup>	54.25 <sup>162</sup>	22.310 <sup>93</sup>	30.62 <sup>17</sup>	17.622 <sup>97</sup>	59.54 <sup>121</sup>
30.3	6.572 <sup>170</sup>	37.11 <sup>129</sup>	13.23 <sup>49</sup>	55.87 <sup>113</sup>	22.217 <sup>106</sup>	30.79 <sup>6</sup>	17.525 <sup>109</sup>	60.75 <sup>107</sup>
Juni 9.3	6.402 <sup>179</sup>	38.40 <sup>93</sup>	12.74 <sup>52</sup>	57.00 <sup>62</sup>	22.111 <sup>118</sup>	30.73 <sup>28</sup>	17.416 <sup>117</sup>	61.82 <sup>92</sup>
19.3	6.223 <sup>185</sup>	39.33 <sup>56</sup>	12.22 <sup>52</sup>	57.62 <sup>8</sup>	21.993 <sup>125</sup>	30.45 <sup>49</sup>	17.299 <sup>121</sup>	62.74 <sup>74</sup>
29.3	6.038 <sup>183</sup>	39.89 <sup>17</sup>	11.70 <sup>51</sup>	57.70 <sup>45</sup>	21.868 <sup>129</sup>	29.96 <sup>69</sup>	17.178 <sup>123</sup>	63.48 <sup>53</sup>
Juli 9.2	5.855 <sup>177</sup>	40.06 <sup>22</sup>	11.19 <sup>50</sup>	57.25 <sup>98</sup>	21.739 <sup>131</sup>	29.27 <sup>87</sup>	17.055 <sup>121</sup>	64.01 <sup>31</sup>
19.2	5.678 <sup>168</sup>	39.84 <sup>62</sup>	10.69 <sup>46</sup>	56.27 <sup>147</sup>	21.608 <sup>127</sup>	28.40 <sup>103</sup>	16.934 <sup>116</sup>	64.32 <sup>9</sup>
29.2	5.510 <sup>154</sup>	39.22 <sup>99</sup>	10.23 <sup>42</sup>	54.80 <sup>193</sup>	21.481 <sup>118</sup>	27.37 <sup>115</sup>	16.818 <sup>108</sup>	64.41 <sup>15</sup>
Aug. 8.1	5.356 <sup>133</sup>	38.23 <sup>136</sup>	9.81 <sup>37</sup>	52.87 <sup>237</sup>	21.363 <sup>105</sup>	26.22 <sup>124</sup>	16.710 <sup>93</sup>	64.26 <sup>39</sup>
18.1	5.223 <sup>109</sup>	36.87 <sup>171</sup>	9.44 <sup>30</sup>	50.50 <sup>274</sup>	21.258 <sup>86</sup>	24.98 <sup>128</sup>	16.617 <sup>76</sup>	63.87 <sup>63</sup>
28.1	5.114 <sup>79</sup>	35.16 <sup>203</sup>	9.14 <sup>23</sup>	47.76 <sup>307</sup>	21.172 <sup>60</sup>	23.70 <sup>126</sup>	16.541 <sup>53</sup>	63.24 <sup>89</sup>
Sept. 7.1	5.035 <sup>43</sup>	33.13 <sup>232</sup>	8.91 <sup>15</sup>	44.69 <sup>334</sup>	21.112 <sup>28</sup>	22.44 <sup>119</sup>	16.488 <sup>24</sup>	62.35 <sup>114</sup>
17.0	4.992 <sup>2</sup>	30.81 <sup>257</sup>	8.76 <sup>6</sup>	41.35 <sup>354</sup>	21.084 <sup>8</sup>	21.25 <sup>106</sup>	16.464 <sup>9</sup>	61.21 <sup>139</sup>
27.0	4.990 <sup>44</sup>	28.24 <sup>278</sup>	8.70 <sup>4</sup>	37.81 <sup>368</sup>	21.092 <sup>51</sup>	20.19 <sup>86</sup>	16.473 <sup>46</sup>	59.82 <sup>163</sup>
Okt. 7.0	5.034 <sup>94</sup>	25.46 <sup>295</sup>	8.74 <sup>14</sup>	34.13 <sup>373</sup>	21.143 <sup>97</sup>	19.33 <sup>61</sup>	16.519 <sup>89</sup>	58.19 <sup>186</sup>
17.0	5.128 <sup>147</sup>	22.51 <sup>306</sup>	8.88 <sup>24</sup>	30.40 <sup>369</sup>	21.240 <sup>145</sup>	18.72 <sup>31</sup>	16.608 <sup>132</sup>	56.33 <sup>206</sup>
26.9	5.275 <sup>199</sup>	19.45 <sup>310</sup>	9.12 <sup>35</sup>	26.71 <sup>359</sup>	21.385 <sup>192</sup>	18.41 <sup>4</sup>	16.740 <sup>178</sup>	54.27 <sup>223</sup>
Nov. 5.9	5.474 <sup>252</sup>	16.35 <sup>306</sup>	9.47 <sup>45</sup>	23.12 <sup>338</sup>	21.577 <sup>237</sup>	18.45 <sup>41</sup>	16.918 <sup>220</sup>	52.04 <sup>236</sup>
15.9	5.726 <sup>298</sup>	13.29 <sup>295</sup>	9.92 <sup>54</sup>	19.74 <sup>308</sup>	21.814 <sup>276</sup>	18.86 <sup>78</sup>	17.138 <sup>260</sup>	49.68 <sup>243</sup>
25.8	6.024 <sup>340</sup>	10.34 <sup>275</sup>	10.46 <sup>63</sup>	16.66 <sup>269</sup>	22.090 <sup>309</sup>	19.64 <sup>116</sup>	17.398 <sup>293</sup>	47.25 <sup>243</sup>
Dez. 5.8	6.364 <sup>372</sup>	7.59 <sup>246</sup>	11.09 <sup>69</sup>	13.97 <sup>222</sup>	22.399 <sup>331</sup>	20.80 <sup>150</sup>	17.691 <sup>318</sup>	44.82 <sup>236</sup>
15.8	6.736 <sup>391</sup>	5.13 <sup>210</sup>	11.78 <sup>74</sup>	11.75 <sup>167</sup>	22.730 <sup>344</sup>	22.30 <sup>179</sup>	18.009 <sup>333</sup>	42.46 <sup>222</sup>
25.8	7.127 <sup>400</sup>	3.03 <sup>167</sup>	12.52 <sup>76</sup>	10.08 <sup>106</sup>	23.074 <sup>344</sup>	24.09 <sup>203</sup>	18.342 <sup>338</sup>	40.24 <sup>200</sup>
35.7	7.527	1.36	13.28	9.02	23.418	26.12	18.680	38.24
Mittl. Ort	5.411	32.22	12.32	44.94	20.296	16.05	16.135	62.71
sec $\delta$ , tg $\delta$	1.341	+0.893	2.954	+2.780	1.086	-0.424	1.056	+0.340



Mittlere Zeit Greenw.	474) α Muscae		476) γ Centauri		478) 76 Ursae maj.		481) β Crucis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	12 <sup>h</sup> 32 <sup>m</sup>	-68° 42'	12 <sup>h</sup> 37 <sup>m</sup>	-48° 31'	12 <sup>h</sup> 38 <sup>m</sup>	+63° 7'	12 <sup>h</sup> 43 <sup>m</sup>	-59° 15'
Jan. 0.7	36.15 <sub>70</sub>	21.30 <sub>160</sub>	16.292 <sub>433</sub>	57.22 <sub>188</sub>	11.12 <sub>59</sub>	51.50 <sub>94</sub>	13.473 <sub>536</sub>	45.95 <sub>164</sub>
10.7	36.85 <sub>67</sub>	22.90 <sub>212</sub>	16.725 <sub>413</sub>	59.10 <sub>227</sub>	11.71 <sub>58</sub>	50.56 <sub>32</sub>	14.009 <sub>512</sub>	47.59 <sub>211</sub>
20.7	37.52 <sub>61</sub>	25.02 <sub>257</sub>	17.138 <sub>379</sub>	61.37 <sub>256</sub>	12.29 <sub>54</sub>	50.24 <sub>33</sub>	14.521 <sub>473</sub>	49.70 <sub>250</sub>
30.7	38.13 <sub>54</sub>	27.59 <sub>294</sub>	17.517 <sub>338</sub>	63.93 <sub>281</sub>	12.83 <sub>49</sub>	50.57 <sub>94</sub>	14.994 <sub>423</sub>	52.20 <sub>283</sub>
Febr. 9.6	38.67 <sub>46</sub>	30.53 <sub>322</sub>	17.855 <sub>290</sub>	66.74 <sub>295</sub>	13.32 <sub>43</sub>	51.51 <sub>150</sub>	15.417 <sub>364</sub>	55.03 <sub>307</sub>
19.6	39.13 <sub>37</sub>	33.75 <sub>343</sub>	18.145 <sub>237</sub>	69.69 <sub>302</sub>	13.75 <sub>34</sub>	53.01 <sub>200</sub>	15.781 <sub>302</sub>	58.10 <sub>322</sub>
März 1.6	39.50 <sub>28</sub>	37.18 <sub>355</sub>	18.382 <sub>185</sub>	72.71 <sub>303</sub>	14.09 <sub>27</sub>	55.01 <sub>241</sub>	16.083 <sub>235</sub>	61.32 <sub>331</sub>
11.6	39.78 <sub>19</sub>	40.73 <sub>358</sub>	18.567 <sub>131</sub>	75.74 <sub>297</sub>	14.36 <sub>17</sub>	57.42 <sub>270</sub>	16.318 <sub>169</sub>	64.63 <sub>331</sub>
21.5	39.97 <sub>9</sub>	44.31 <sub>353</sub>	18.698 <sub>80</sub>	78.71 <sub>285</sub>	14.53 <sub>8</sub>	60.12 <sub>288</sub>	16.487 <sub>103</sub>	67.94 <sub>325</sub>
31.5	40.06 <sub>1</sub>	47.84 <sub>342</sub>	18.778 <sub>32</sub>	81.56 <sub>268</sub>	14.61 <sub>1</sub>	63.00 <sub>295</sub>	16.590 <sub>42</sub>	71.19 <sub>312</sub>
Apr. 10.5	40.07 <sub>7</sub>	51.26 <sub>323</sub>	18.810 <sub>12</sub>	84.24 <sub>246</sub>	14.60 <sub>9</sub>	65.95 <sub>289</sub>	16.632 <sub>17</sub>	74.31 <sub>293</sub>
20.4	40.00 <sub>16</sub>	54.49 <sub>298</sub>	18.798 <sub>53</sub>	86.70 <sub>220</sub>	14.51 <sub>15</sub>	68.84 <sub>274</sub>	16.615 <sub>72</sub>	77.24 <sub>268</sub>
30.4	39.84 <sub>22</sub>	57.47 <sub>266</sub>	18.745 <sub>89</sub>	88.90 <sub>189</sub>	14.36 <sub>22</sub>	71.58 <sub>248</sub>	16.543 <sub>122</sub>	79.92 <sub>238</sub>
Mai 10.4	39.62 <sub>29</sub>	60.13 <sub>230</sub>	18.656 <sub>121</sub>	90.79 <sub>157</sub>	14.14 <sub>27</sub>	74.06 <sub>215</sub>	16.421 <sub>167</sub>	82.30 <sub>204</sub>
20.4	39.33 <sub>35</sub>	62.43 <sub>189</sub>	18.535 <sub>150</sub>	92.36 <sub>121</sub>	13.87 <sub>32</sub>	76.21 <sub>176</sub>	16.254 <sub>209</sub>	84.34 <sub>166</sub>
30.3	38.98 <sub>40</sub>	64.32 <sub>143</sub>	18.385 <sub>174</sub>	93.57 <sub>83</sub>	13.55 <sub>34</sub>	77.97 <sub>130</sub>	16.045 <sub>243</sub>	86.00 <sub>124</sub>
Juni 9.3	38.58 <sub>43</sub>	65.75 <sub>95</sub>	18.211 <sub>194</sub>	94.40 <sub>43</sub>	13.21 <sub>35</sub>	79.27 <sub>82</sub>	15.802 <sub>272</sub>	87.24 <sub>80</sub>
19.3	38.15 <sub>46</sub>	66.70 <sub>44</sub>	18.017 <sub>209</sub>	94.83 <sub>3</sub>	12.86 <sub>37</sub>	80.09 <sub>32</sub>	15.530 <sub>295</sub>	88.04 <sub>34</sub>
29.3	37.69 <sub>48</sub>	67.14 <sub>8</sub>	17.808 <sub>217</sub>	94.86 <sub>38</sub>	12.49 <sub>37</sub>	80.41 <sub>19</sub>	15.235 <sub>329</sub>	88.38 <sub>13</sub>
Juli 9.2	37.21 <sub>48</sub>	67.06 <sub>60</sub>	17.591 <sub>221</sub>	94.48 <sub>78</sub>	12.12 <sub>35</sub>	80.22 <sub>70</sub>	14.926 <sub>314</sub>	88.25 <sub>60</sub>
19.2	36.73 <sub>46</sub>	66.46 <sub>109</sub>	17.370 <sub>217</sub>	93.70 <sub>115</sub>	11.77 <sub>34</sub>	79.52 <sub>118</sub>	14.612 <sub>309</sub>	87.65 <sub>105</sub>
29.2	36.27 <sub>44</sub>	65.37 <sub>156</sub>	17.153 <sub>205</sub>	92.55 <sub>149</sub>	11.43 <sub>31</sub>	78.34 <sub>165</sub>	14.303 <sub>294</sub>	86.60 <sub>147</sub>
Aug. 8.1	35.83 <sub>39</sub>	63.81 <sub>198</sub>	16.948 <sub>184</sub>	91.06 <sub>179</sub>	11.12 <sub>27</sub>	76.69 <sub>209</sub>	14.009 <sub>267</sub>	85.13 <sub>184</sub>
18.1	35.44 <sub>33</sub>	61.83 <sub>235</sub>	16.764 <sub>156</sub>	89.27 <sub>202</sub>	10.85 <sub>23</sub>	74.60 <sub>247</sub>	13.742 <sub>228</sub>	83.29 <sub>216</sub>
28.1	35.11 <sub>25</sub>	59.48 <sub>262</sub>	16.608 <sub>117</sub>	87.25 <sub>219</sub>	10.62 <sub>17</sub>	72.13 <sub>282</sub>	13.514 <sub>178</sub>	81.13 <sub>241</sub>
Sept. 7.1	34.86 <sub>16</sub>	56.86 <sub>281</sub>	16.491 <sub>71</sub>	85.06 <sub>228</sub>	10.45 <sub>12</sub>	69.31 <sub>311</sub>	13.336 <sub>117</sub>	78.72 <sub>257</sub>
17.0	34.70 <sub>6</sub>	54.05 <sub>290</sub>	16.420 <sub>17</sub>	82.78 <sub>227</sub>	10.33 <sub>5</sub>	66.20 <sub>335</sub>	13.219 <sub>46</sub>	76.15 <sub>263</sub>
27.0	34.64 <sub>6</sub>	51.15 <sub>287</sub>	16.403 <sub>44</sub>	80.51 <sub>218</sub>	10.28 <sub>2</sub>	62.85 <sub>352</sub>	13.173 <sub>33</sub>	73.52 <sub>259</sub>
Okt. 7.0	34.70 <sub>17</sub>	48.28 <sub>273</sub>	16.447 <sub>108</sub>	78.33 <sub>197</sub>	10.30 <sub>10</sub>	59.33 <sub>363</sub>	13.206 <sub>116</sub>	70.93 <sub>243</sub>
17.0	34.87 <sub>29</sub>	45.55 <sub>247</sub>	16.555 <sub>174</sub>	76.36 <sub>170</sub>	10.40 <sub>18</sub>	55.70 <sub>364</sub>	13.322 <sub>202</sub>	68.50 <sub>219</sub>
26.9	35.16 <sub>39</sub>	43.08 <sub>212</sub>	16.729 <sub>239</sub>	74.66 <sub>132</sub>	10.58 <sub>26</sub>	52.06 <sub>357</sub>	13.524 <sub>284</sub>	66.31 <sub>183</sub>
Nov. 5.9	35.55 <sub>50</sub>	40.96 <sub>166</sub>	16.968 <sub>300</sub>	73.34 <sub>89</sub>	10.84 <sub>34</sub>	48.49 <sub>343</sub>	13.808 <sub>360</sub>	64.48 <sub>140</sub>
15.9	36.05 <sub>59</sub>	39.30 <sub>113</sub>	17.268 <sub>352</sub>	72.45 <sub>40</sub>	11.18 <sub>42</sub>	45.06 <sub>318</sub>	14.168 <sub>428</sub>	63.08 <sub>90</sub>
25.8	36.64 <sub>65</sub>	38.17 <sub>56</sub>	17.620 <sub>393</sub>	72.05 <sub>12</sub>	11.60 <sub>49</sub>	41.88 <sub>284</sub>	14.596 <sub>480</sub>	62.18 <sub>36</sub>
Dez. 5.8	37.29 <sub>70</sub>	37.61 <sub>5</sub>	18.013 <sub>423</sub>	72.17 <sub>64</sub>	12.09 <sub>53</sub>	39.04 <sub>241</sub>	15.076 <sub>518</sub>	61.82 <sub>22</sub>
15.8	37.99 <sub>71</sub>	37.66 <sub>67</sub>	18.436 <sub>438</sub>	72.81 <sub>115</sub>	12.62 <sub>57</sub>	36.63 <sub>191</sub>	15.594 <sub>539</sub>	62.04 <sub>79</sub>
25.8	38.70 <sub>72</sub>	38.33 <sub>126</sub>	18.874 <sub>439</sub>	73.96 <sub>162</sub>	13.19 <sub>59</sub>	34.72 <sub>134</sub>	16.133 <sub>541</sub>	62.83 <sub>133</sub>
35.7	39.42	39.59	19.313	75.58	13.78	33.38	16.674	64.16
Mittl. Ort sec δ, tg δ	34.53 2.754	41.73 -2.566	15.662 1.510	73.71 -1.132	12.49 2.213	68.20 +1.974	12.571 1.957	65.14 -1.682

Mittlere Zeit Greenw.	482) $\alpha$ Centauri		483) $\epsilon$ Ursae maj.		484) $\delta$ Virginis		486) $\delta$ Draconis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$12^{\text{h}} 49^{\text{m}}$	$-39^{\circ} 45'$	$12^{\text{h}} 50^{\text{m}}$	$+56^{\circ} 22'$	$12^{\text{h}} 51^{\text{m}}$	$+3^{\circ} 48'$	$12^{\text{h}} 52^{\text{m}}$	$+65^{\circ} 50'$
Jan. 0.8	10.216 <sup>391</sup>	23.32 <sup>187</sup>	37.629 <sup>499</sup>	23.91 <sup>126</sup>	43.225 <sup>322</sup>	55.83 <sup>204</sup>	23.21 <sup>64</sup>	64.96 <sup>107</sup>
10.7	10.607 <sup>375</sup>	25.19 <sup>218</sup>	38.128 <sup>490</sup>	22.65 <sup>66</sup>	43.547 <sup>311</sup>	53.79 <sup>188</sup>	23.85 <sup>63</sup>	63.89 <sup>42</sup>
20.7	10.982 <sup>349</sup>	27.37 <sup>242</sup>	38.618 <sup>465</sup>	21.99 <sup>3</sup>	43.858 <sup>292</sup>	51.91 <sup>166</sup>	24.48 <sup>60</sup>	63.47 <sup>23</sup>
30.7	11.331 <sup>314</sup>	29.79 <sup>259</sup>	39.083 <sup>426</sup>	21.96 <sup>58</sup>	44.150 <sup>264</sup>	50.25 <sup>140</sup>	25.08 <sup>56</sup>	63.70 <sup>86</sup>
Feb. 9.6	11.645 <sup>273</sup>	32.38 <sup>268</sup>	39.509 <sup>374</sup>	22.54 <sup>115</sup>	44.414 <sup>231</sup>	48.85 <sup>110</sup>	25.64 <sup>48</sup>	64.56 <sup>145</sup>
19.6	11.918 <sup>229</sup>	35.06 <sup>270</sup>	39.883 <sup>310</sup>	23.69 <sup>167</sup>	44.645 <sup>194</sup>	47.75 <sup>80</sup>	26.12 <sup>41</sup>	66.01 <sup>197</sup>
März 1.6	12.147 <sup>182</sup>	37.76 <sup>266</sup>	40.193 <sup>242</sup>	25.36 <sup>211</sup>	44.839 <sup>155</sup>	46.95 <sup>50</sup>	26.53 <sup>31</sup>	67.98 <sup>240</sup>
11.6	12.329 <sup>137</sup>	40.42 <sup>258</sup>	40.435 <sup>169</sup>	27.47 <sup>244</sup>	44.994 <sup>117</sup>	46.45 <sup>20</sup>	26.84 <sup>21</sup>	70.38 <sup>272</sup>
21.5	12.466 <sup>92</sup>	43.00 <sup>243</sup>	40.604 <sup>97</sup>	29.91 <sup>268</sup>	45.111 <sup>80</sup>	46.25 <sup>6</sup>	27.05 <sup>12</sup>	73.10 <sup>293</sup>
31.5	12.558 <sup>50</sup>	45.43 <sup>226</sup>	40.701 <sup>27</sup>	32.59 <sup>279</sup>	45.191 <sup>45</sup>	46.31 <sup>28</sup>	27.17 <sup>2</sup>	76.03 <sup>302</sup>
Apr. 10.5	12.608 <sup>13</sup>	47.69 <sup>204</sup>	40.728 <sup>38</sup>	35.38 <sup>280</sup>	45.236 <sup>15</sup>	46.59 <sup>47</sup>	27.19 <sup>7</sup>	79.05 <sup>299</sup>
20.5	12.621 <sup>23</sup>	49.73 <sup>181</sup>	40.690 <sup>97</sup>	38.18 <sup>270</sup>	45.251 <sup>13</sup>	47.06 <sup>62</sup>	27.12 <sup>15</sup>	82.04 <sup>285</sup>
30.4	12.598 <sup>54</sup>	51.54 <sup>153</sup>	40.593 <sup>147</sup>	40.88 <sup>251</sup>	45.238 <sup>36</sup>	47.68 <sup>72</sup>	26.97 <sup>23</sup>	84.89 <sup>261</sup>
Mai 10.4	12.544 <sup>83</sup>	53.07 <sup>124</sup>	40.446 <sup>191</sup>	43.39 <sup>223</sup>	45.202 <sup>57</sup>	48.40 <sup>79</sup>	26.74 <sup>29</sup>	87.50 <sup>219</sup>
20.4	12.461 <sup>107</sup>	54.31 <sup>94</sup>	40.255 <sup>226</sup>	45.62 <sup>188</sup>	45.145 <sup>73</sup>	49.19 <sup>82</sup>	26.45 <sup>34</sup>	89.79 <sup>189</sup>
30.3	12.354 <sup>129</sup>	55.25 <sup>61</sup>	40.029 <sup>252</sup>	47.50 <sup>149</sup>	45.072 <sup>88</sup>	50.01 <sup>82</sup>	26.11 <sup>37</sup>	91.68 <sup>145</sup>
Juni 9.3	12.225 <sup>148</sup>	55.86 <sup>28</sup>	39.777 <sup>270</sup>	48.99 <sup>104</sup>	44.984 <sup>99</sup>	50.83 <sup>79</sup>	25.74 <sup>41</sup>	93.13 <sup>96</sup>
19.3	12.077 <sup>163</sup>	56.14 <sup>6</sup>	39.507 <sup>281</sup>	50.03 <sup>58</sup>	44.885 <sup>107</sup>	51.62 <sup>75</sup>	25.33 <sup>41</sup>	94.09 <sup>45</sup>
29.3	11.914 <sup>172</sup>	56.08 <sup>40</sup>	39.226 <sup>284</sup>	50.61 <sup>9</sup>	44.778 <sup>114</sup>	52.37 <sup>69</sup>	24.92 <sup>42</sup>	94.54 <sup>8</sup>
Juli 9.2	11.742 <sup>178</sup>	55.68 <sup>72</sup>	38.942 <sup>281</sup>	50.70 <sup>39</sup>	44.664 <sup>117</sup>	53.06 <sup>60</sup>	24.50 <sup>42</sup>	94.46 <sup>59</sup>
19.2	11.564 <sup>177</sup>	54.96 <sup>104</sup>	38.661 <sup>269</sup>	50.31 <sup>86</sup>	44.547 <sup>116</sup>	53.66 <sup>50</sup>	24.08 <sup>39</sup>	93.87 <sup>110</sup>
29.2	11.387 <sup>171</sup>	53.92 <sup>131</sup>	38.392 <sup>252</sup>	49.45 <sup>132</sup>	44.431 <sup>111</sup>	54.16 <sup>39</sup>	23.69 <sup>37</sup>	92.77 <sup>158</sup>
Aug. 8.2	11.216 <sup>155</sup>	52.61 <sup>154</sup>	38.140 <sup>226</sup>	48.13 <sup>175</sup>	44.320 <sup>102</sup>	54.55 <sup>25</sup>	23.32 <sup>34</sup>	91.19 <sup>204</sup>
18.1	11.061 <sup>134</sup>	51.07 <sup>173</sup>	37.914 <sup>195</sup>	46.38 <sup>216</sup>	44.218 <sup>87</sup>	54.80 <sup>9</sup>	22.98 <sup>29</sup>	89.15 <sup>244</sup>
28.1	10.927 <sup>105</sup>	49.34 <sup>185</sup>	37.719 <sup>156</sup>	44.22 <sup>252</sup>	44.131 <sup>68</sup>	54.89 <sup>9</sup>	22.69 <sup>23</sup>	86.71 <sup>281</sup>
Sept. 7.1	10.822 <sup>66</sup>	47.49 <sup>191</sup>	37.563 <sup>109</sup>	41.70 <sup>284</sup>	44.063 <sup>42</sup>	54.80 <sup>28</sup>	22.46 <sup>17</sup>	83.90 <sup>312</sup>
17.0	10.756 <sup>22</sup>	45.58 <sup>188</sup>	37.454 <sup>56</sup>	38.86 <sup>310</sup>	44.021 <sup>10</sup>	54.52 <sup>51</sup>	22.29 <sup>10</sup>	80.78 <sup>338</sup>
27.0	10.734 <sup>30</sup>	43.70 <sup>176</sup>	37.398 <sup>2</sup>	35.76 <sup>332</sup>	44.011 <sup>26</sup>	54.01 <sup>74</sup>	22.19 <sup>2</sup>	77.40 <sup>357</sup>
Okt. 7.0	10.764 <sup>85</sup>	41.94 <sup>157</sup>	37.400 <sup>68</sup>	32.44 <sup>347</sup>	44.037 <sup>67</sup>	53.27 <sup>99</sup>	22.17 <sup>7</sup>	73.83 <sup>368</sup>
17.0	10.849 <sup>144</sup>	40.37 <sup>130</sup>	37.468 <sup>136</sup>	28.97 <sup>354</sup>	44.104 <sup>111</sup>	52.28 <sup>124</sup>	22.24 <sup>15</sup>	70.15 <sup>372</sup>
26.9	10.993 <sup>201</sup>	39.07 <sup>95</sup>	37.604 <sup>206</sup>	25.43 <sup>354</sup>	44.215 <sup>155</sup>	51.04 <sup>148</sup>	22.39 <sup>25</sup>	66.43 <sup>367</sup>
Nov. 5.9	11.194 <sup>256</sup>	38.12 <sup>55</sup>	37.810 <sup>276</sup>	21.89 <sup>344</sup>	44.370 <sup>200</sup>	49.56 <sup>171</sup>	22.64 <sup>33</sup>	62.76 <sup>353</sup>
15.9	11.450 <sup>304</sup>	37.57 <sup>10</sup>	38.086 <sup>340</sup>	18.45 <sup>325</sup>	44.570 <sup>239</sup>	47.85 <sup>191</sup>	22.97 <sup>43</sup>	59.23 <sup>329</sup>
25.9	11.754 <sup>344</sup>	37.47 <sup>36</sup>	38.426 <sup>398</sup>	15.20 <sup>298</sup>	44.809 <sup>275</sup>	45.94 <sup>205</sup>	23.40 <sup>50</sup>	55.94 <sup>297</sup>
Dez. 5.8	12.098 <sup>374</sup>	37.83 <sup>82</sup>	38.824 <sup>445</sup>	12.22 <sup>261</sup>	45.084 <sup>300</sup>	43.89 <sup>214</sup>	23.90 <sup>56</sup>	52.97 <sup>254</sup>
15.8	12.472 <sup>390</sup>	38.65 <sup>126</sup>	39.269 <sup>480</sup>	9.61 <sup>216</sup>	45.384 <sup>317</sup>	41.75 <sup>217</sup>	24.46 <sup>60</sup>	50.43 <sup>203</sup>
25.8	12.862 <sup>394</sup>	39.91 <sup>166</sup>	39.749 <sup>498</sup>	7.45 <sup>162</sup>	45.701 <sup>324</sup>	39.58 <sup>211</sup>	25.06 <sup>64</sup>	48.40 <sup>146</sup>
35.7	13.256	41.57	40.247	5.83	46.025	37.47	25.70	46.94
Mittl. Ort sec $\delta$ , tg $\delta$	9.874 1.301	37.89 -0.832	38.812 1.806	38.99 +1.504	43.441 1.002	55.87 +0.067	24.93 2.445	81.38 +2.231

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	485) 12 Can. ven. sq.		488) ε Virginis		490) θ Virginis		492) 43 Comae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	12 <sup>h</sup> 52 <sup>m</sup>	+38° 43'	12 <sup>h</sup> 58 <sup>m</sup>	+11° 22'	13 <sup>h</sup> 5 <sup>m</sup>	-5° 7'	13 <sup>h</sup> 8 <sup>m</sup>	+28° 15'
Jan. 0.8	25.022 <sup>382</sup>	50.97 <sup>163</sup>	20.294 <sup>326</sup>	19.26 <sup>200</sup>	57.469 <sup>324</sup>	38.28 <sup>204</sup>	16.279 <sup>348</sup>	57.72 <sup>189</sup>
10.7	25.404 <sup>374</sup>	49.34 <sup>114</sup>	20.620 <sup>317</sup>	17.26 <sup>177</sup>	57.793 <sup>316</sup>	40.32 <sup>198</sup>	16.627 <sup>343</sup>	55.83 <sup>148</sup>
20.7	25.778 <sup>354</sup>	48.20 <sup>61</sup>	20.937 <sup>299</sup>	15.49 <sup>147</sup>	58.109 <sup>298</sup>	42.30 <sup>187</sup>	16.970 <sup>326</sup>	54.35 <sup>102</sup>
30.7	26.132 <sup>322</sup>	47.59 <sup>7</sup>	21.236 <sup>272</sup>	14.02 <sup>114</sup>	58.407 <sup>272</sup>	44.17 <sup>169</sup>	17.296 <sup>301</sup>	53.33 <sup>56</sup>
Feb. 9.7	26.454 <sup>283</sup>	47.52 <sup>45</sup>	21.508 <sup>240</sup>	12.88 <sup>78</sup>	58.679 <sup>242</sup>	45.86 <sup>148</sup>	17.597 <sup>267</sup>	52.77 <sup>7</sup>
19.6	26.737 <sup>237</sup>	47.97 <sup>93</sup>	21.748 <sup>203</sup>	12.10 <sup>43</sup>	58.921 <sup>205</sup>	47.34 <sup>124</sup>	17.864 <sup>227</sup>	52.70 <sup>38</sup>
März 1.6	26.974 <sup>187</sup>	48.90 <sup>136</sup>	21.951 <sup>163</sup>	11.67 <sup>8</sup>	59.126 <sup>169</sup>	48.58 <sup>98</sup>	18.091 <sup>186</sup>	53.08 <sup>81</sup>
11.6	27.161 <sup>136</sup>	50.26 <sup>171</sup>	22.114 <sup>125</sup>	11.59 <sup>24</sup>	59.295 <sup>132</sup>	49.56 <sup>72</sup>	18.277 <sup>141</sup>	53.89 <sup>118</sup>
21.5	27.297 <sup>85</sup>	51.97 <sup>198</sup>	22.239 <sup>86</sup>	11.83 <sup>51</sup>	59.427 <sup>96</sup>	50.28 <sup>47</sup>	18.418 <sup>99</sup>	55.07 <sup>147</sup>
31.5	27.382 <sup>38</sup>	53.95 <sup>216</sup>	22.325 <sup>51</sup>	12.34 <sup>75</sup>	59.523 <sup>62</sup>	50.75 <sup>25</sup>	18.517 <sup>58</sup>	56.54 <sup>170</sup>
Apr. 10.5	27.420 <sup>5</sup>	56.11 <sup>224</sup>	22.376 <sup>19</sup>	13.09 <sup>91</sup>	59.585 <sup>32</sup>	51.00 <sup>5</sup>	18.575 <sup>19</sup>	58.24 <sup>184</sup>
20.5	27.415 <sup>45</sup>	58.35 <sup>223</sup>	22.395 <sup>10</sup>	14.00 <sup>103</sup>	59.617 <sup>4</sup>	51.05 <sup>14</sup>	18.594 <sup>14</sup>	60.08 <sup>189</sup>
30.4	27.370 <sup>78</sup>	60.58 <sup>214</sup>	22.385 <sup>34</sup>	15.03 <sup>111</sup>	59.621 <sup>20</sup>	50.91 <sup>27</sup>	18.580 <sup>45</sup>	61.97 <sup>189</sup>
Mai 10.4	27.292 <sup>106</sup>	62.72 <sup>197</sup>	22.351 <sup>56</sup>	16.14 <sup>112</sup>	59.601 <sup>42</sup>	50.64 <sup>40</sup>	18.535 <sup>70</sup>	63.86 <sup>180</sup>
20.4	27.186 <sup>130</sup>	64.69 <sup>174</sup>	22.295 <sup>74</sup>	17.26 <sup>109</sup>	59.559 <sup>61</sup>	50.24 <sup>49</sup>	18.465 <sup>93</sup>	65.66 <sup>166</sup>
30.4	27.056 <sup>148</sup>	66.43 <sup>146</sup>	22.221 <sup>90</sup>	18.35 <sup>104</sup>	59.498 <sup>78</sup>	49.75 <sup>56</sup>	18.372 <sup>111</sup>	67.32 <sup>146</sup>
Juni 9.3	26.908 <sup>161</sup>	67.89 <sup>113</sup>	22.131 <sup>101</sup>	19.39 <sup>94</sup>	59.420 <sup>91</sup>	49.19 <sup>62</sup>	18.261 <sup>126</sup>	68.78 <sup>123</sup>
19.3	26.747 <sup>169</sup>	69.02 <sup>79</sup>	22.030 <sup>111</sup>	20.33 <sup>82</sup>	59.329 <sup>104</sup>	48.57 <sup>65</sup>	18.135 <sup>137</sup>	70.01 <sup>96</sup>
29.3	26.578 <sup>175</sup>	69.81 <sup>41</sup>	21.919 <sup>118</sup>	21.15 <sup>69</sup>	59.225 <sup>112</sup>	47.92 <sup>67</sup>	17.998 <sup>145</sup>	70.97 <sup>67</sup>
Juli 9.2	26.403 <sup>174</sup>	70.22 <sup>3</sup>	21.801 <sup>121</sup>	21.84 <sup>53</sup>	59.113 <sup>118</sup>	47.25 <sup>67</sup>	17.853 <sup>149</sup>	71.64 <sup>37</sup>
19.2	26.229 <sup>169</sup>	70.25 <sup>35</sup>	21.680 <sup>121</sup>	22.37 <sup>35</sup>	58.995 <sup>120</sup>	46.58 <sup>65</sup>	17.704 <sup>148</sup>	72.01 <sup>5</sup>
29.2	26.060 <sup>160</sup>	69.90 <sup>74</sup>	21.559 <sup>117</sup>	22.72 <sup>18</sup>	58.875 <sup>118</sup>	45.93 <sup>62</sup>	17.556 <sup>144</sup>	72.06 <sup>28</sup>
Aug. 8.2	25.900 <sup>145</sup>	69.16 <sup>110</sup>	21.442 <sup>108</sup>	22.90 <sup>3</sup>	58.757 <sup>110</sup>	45.31 <sup>55</sup>	17.412 <sup>135</sup>	71.78 <sup>59</sup>
18.1	25.755 <sup>125</sup>	68.06 <sup>147</sup>	21.334 <sup>94</sup>	22.87 <sup>24</sup>	58.647 <sup>98</sup>	44.76 <sup>47</sup>	17.277 <sup>119</sup>	71.19 <sup>92</sup>
28.1	25.630 <sup>98</sup>	66.59 <sup>180</sup>	21.240 <sup>74</sup>	22.63 <sup>46</sup>	58.549 <sup>80</sup>	44.29 <sup>35</sup>	17.158 <sup>99</sup>	70.27 <sup>123</sup>
Sept. 7.1	25.532 <sup>67</sup>	64.79 <sup>211</sup>	21.166 <sup>50</sup>	22.17 <sup>69</sup>	58.469 <sup>54</sup>	43.94 <sup>20</sup>	17.059 <sup>72</sup>	69.04 <sup>153</sup>
17.1	25.465 <sup>29</sup>	62.68 <sup>239</sup>	21.116 <sup>18</sup>	21.48 <sup>94</sup>	58.415 <sup>23</sup>	43.74 <sup>2</sup>	16.987 <sup>39</sup>	67.51 <sup>182</sup>
27.0	25.436 <sup>15</sup>	60.29 <sup>264</sup>	21.098 <sup>19</sup>	20.54 <sup>119</sup>	58.392 <sup>14</sup>	43.72 <sup>20</sup>	16.948 <sup>0</sup>	65.69 <sup>209</sup>
Okt. 7.0	25.451 <sup>63</sup>	57.65 <sup>284</sup>	21.117 <sup>59</sup>	19.35 <sup>143</sup>	58.406 <sup>55</sup>	43.92 <sup>43</sup>	16.948 <sup>44</sup>	63.60 <sup>232</sup>
17.0	25.514 <sup>115</sup>	54.81 <sup>300</sup>	21.176 <sup>104</sup>	17.92 <sup>167</sup>	58.461 <sup>100</sup>	44.35 <sup>70</sup>	16.992 <sup>90</sup>	61.28 <sup>253</sup>
26.9	25.629 <sup>167</sup>	51.81 <sup>307</sup>	21.280 <sup>149</sup>	16.25 <sup>188</sup>	58.561 <sup>146</sup>	45.05 <sup>96</sup>	17.082 <sup>141</sup>	58.75 <sup>268</sup>
Nov. 5.9	25.796 <sup>220</sup>	48.74 <sup>309</sup>	21.429 <sup>193</sup>	14.37 <sup>207</sup>	58.707 <sup>191</sup>	46.01 <sup>123</sup>	17.223 <sup>189</sup>	56.07 <sup>277</sup>
15.9	26.016 <sup>269</sup>	45.65 <sup>303</sup>	21.622 <sup>235</sup>	12.30 <sup>221</sup>	58.898 <sup>233</sup>	47.24 <sup>149</sup>	17.412 <sup>236</sup>	53.30 <sup>280</sup>
25.9	26.285 <sup>312</sup>	42.62 <sup>288</sup>	21.857 <sup>272</sup>	10.09 <sup>230</sup>	59.131 <sup>269</sup>	48.73 <sup>170</sup>	17.648 <sup>276</sup>	50.50 <sup>276</sup>
Dez. 5.8	26.597 <sup>347</sup>	39.74 <sup>264</sup>	22.129 <sup>299</sup>	7.79 <sup>231</sup>	59.400 <sup>298</sup>	50.43 <sup>189</sup>	17.924 <sup>310</sup>	47.74 <sup>262</sup>
15.8	26.944 <sup>372</sup>	37.10 <sup>233</sup>	22.428 <sup>319</sup>	5.48 <sup>226</sup>	59.698 <sup>316</sup>	52.32 <sup>200</sup>	18.234 <sup>335</sup>	45.12 <sup>241</sup>
25.8	27.316 <sup>383</sup>	34.77 <sup>192</sup>	22.747 <sup>327</sup>	3.22 <sup>213</sup>	60.014 <sup>325</sup>	54.32 <sup>205</sup>	18.569 <sup>347</sup>	42.71 <sup>211</sup>
35.8	27.699	32.85	23.074	1.09	60.339	56.37	18.916	40.60
Mittl. Ort	25.730	62.07	20.635	21.66	57.673	41.98	16.906	65.14
sec δ, tg δ	1.282	+0.802	1.020	+0.201	1.004	-0.090	1.135	+0.538



Mittlere Zeit Greenw.	495) $\gamma$ Hydrae		496) $\iota$ Centauri		497) $\zeta$ Ursae maj. pr.		498) $\alpha$ Virginis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$13^h 14^m$	$-22^\circ 45'$	$13^h 16^m$	$-36^\circ 18'$	$13^h 20^m$	$+55^\circ 19'$	$13^h 21^m$	$-10^\circ 45'$
Jan. 0.8	43.828 <sup>344</sup>	46.75 <sup>188</sup>	15.751 <sup>381</sup>	9.32 <sup>167</sup>	48.303 <sup>479</sup>	24.20 <sup>163</sup>	7.792 <sup>327</sup>	29.29 <sup>197</sup>
10.7	44.172 <sup>337</sup>	48.63 <sup>202</sup>	16.132 <sup>371</sup>	10.99 <sup>196</sup>	48.782 <sup>481</sup>	22.57 <sup>104</sup>	8.119 <sup>322</sup>	31.26 <sup>199</sup>
20.7	44.509 <sup>318</sup>	50.65 <sup>210</sup>	16.503 <sup>352</sup>	12.95 <sup>218</sup>	49.263 <sup>467</sup>	21.53 <sup>42</sup>	8.441 <sup>306</sup>	33.25 <sup>193</sup>
30.7	44.827 <sup>293</sup>	52.75 <sup>211</sup>	16.855 <sup>324</sup>	15.13 <sup>233</sup>	49.730 <sup>438</sup>	21.11 <sup>22</sup>	8.747 <sup>283</sup>	35.18 <sup>182</sup>
Feb. 9.7	45.120 <sup>260</sup>	54.86 <sup>207</sup>	17.179 <sup>288</sup>	17.46 <sup>242</sup>	50.168 <sup>394</sup>	21.33 <sup>82</sup>	9.030 <sup>253</sup>	37.00 <sup>166</sup>
19.6	45.380 <sup>225</sup>	56.93 <sup>198</sup>	17.467 <sup>249</sup>	19.88 <sup>244</sup>	50.562 <sup>341</sup>	22.15 <sup>139</sup>	9.283 <sup>220</sup>	38.66 <sup>147</sup>
März 1.6	45.605 <sup>187</sup>	58.91 <sup>184</sup>	17.716 <sup>208</sup>	22.32 <sup>241</sup>	50.903 <sup>280</sup>	23.54 <sup>187</sup>	9.503 <sup>184</sup>	40.13 <sup>125</sup>
11.6	45.792 <sup>150</sup>	60.75 <sup>167</sup>	17.924 <sup>166</sup>	24.73 <sup>233</sup>	51.183 <sup>213</sup>	25.41 <sup>228</sup>	9.687 <sup>148</sup>	41.38 <sup>102</sup>
21.5	45.942 <sup>112</sup>	62.42 <sup>150</sup>	18.090 <sup>124</sup>	27.06 <sup>221</sup>	51.396 <sup>145</sup>	27.69 <sup>258</sup>	9.835 <sup>113</sup>	42.40 <sup>79</sup>
31.5	46.054 <sup>77</sup>	63.92 <sup>130</sup>	18.214 <sup>85</sup>	29.27 <sup>205</sup>	51.541 <sup>77</sup>	30.27 <sup>277</sup>	9.948 <sup>80</sup>	43.19 <sup>58</sup>
Apr. 10.5	46.131 <sup>44</sup>	65.22 <sup>109</sup>	18.299 <sup>48</sup>	31.32 <sup>187</sup>	51.618 <sup>14</sup>	33.04 <sup>284</sup>	10.028 <sup>48</sup>	43.77 <sup>37</sup>
20.5	46.175 <sup>15</sup>	66.31 <sup>90</sup>	18.347 <sup>13</sup>	33.19 <sup>166</sup>	51.632 <sup>47</sup>	35.88 <sup>282</sup>	10.076 <sup>20</sup>	44.14 <sup>19</sup>
30.4	46.190 <sup>13</sup>	67.21 <sup>69</sup>	18.360 <sup>19</sup>	34.85 <sup>143</sup>	51.585 <sup>102</sup>	38.70 <sup>268</sup>	10.096 <sup>6</sup>	44.33 <sup>2</sup>
Mai 10.4	46.177 <sup>37</sup>	67.90 <sup>50</sup>	18.341 <sup>49</sup>	36.28 <sup>118</sup>	51.483 <sup>147</sup>	41.38 <sup>246</sup>	10.090 <sup>29</sup>	44.35 <sup>12</sup>
20.4	46.140 <sup>60</sup>	68.40 <sup>29</sup>	18.292 <sup>75</sup>	37.46 <sup>93</sup>	51.336 <sup>189</sup>	43.84 <sup>217</sup>	10.061 <sup>50</sup>	44.23 <sup>25</sup>
30.4	46.080 <sup>80</sup>	68.69 <sup>9</sup>	18.217 <sup>101</sup>	38.39 <sup>64</sup>	51.147 <sup>222</sup>	46.01 <sup>180</sup>	10.011 <sup>70</sup>	43.98 <sup>36</sup>
Juni 9.3	46.000 <sup>98</sup>	68.78 <sup>10</sup>	18.116 <sup>122</sup>	39.03 <sup>35</sup>	50.925 <sup>248</sup>	47.81 <sup>138</sup>	9.941 <sup>86</sup>	43.62 <sup>45</sup>
19.3	45.902 <sup>113</sup>	68.68 <sup>28</sup>	17.994 <sup>141</sup>	39.38 <sup>6</sup>	50.677 <sup>267</sup>	49.19 <sup>94</sup>	9.855 <sup>101</sup>	43.17 <sup>53</sup>
29.3	45.789 <sup>126</sup>	68.40 <sup>47</sup>	17.853 <sup>156</sup>	39.44 <sup>23</sup>	50.410 <sup>279</sup>	50.13 <sup>46</sup>	9.754 <sup>112</sup>	42.64 <sup>60</sup>
Juli 9.2	45.663 <sup>133</sup>	67.93 <sup>64</sup>	17.697 <sup>166</sup>	39.21 <sup>53</sup>	50.131 <sup>284</sup>	50.59 <sup>2</sup>	9.642 <sup>122</sup>	42.04 <sup>65</sup>
19.2	45.530 <sup>139</sup>	67.29 <sup>79</sup>	17.531 <sup>172</sup>	38.68 <sup>80</sup>	49.847 <sup>281</sup>	50.57 <sup>51</sup>	9.520 <sup>126</sup>	41.39 <sup>69</sup>
29.2	45.391 <sup>138</sup>	66.50 <sup>92</sup>	17.359 <sup>170</sup>	37.88 <sup>106</sup>	49.566 <sup>272</sup>	50.06 <sup>98</sup>	9.394 <sup>126</sup>	40.70 <sup>71</sup>
Aug. 8.2	45.253 <sup>131</sup>	65.58 <sup>102</sup>	17.189 <sup>163</sup>	36.82 <sup>129</sup>	49.294 <sup>255</sup>	49.08 <sup>144</sup>	9.268 <sup>122</sup>	39.99 <sup>69</sup>
18.1	45.122 <sup>118</sup>	64.56 <sup>109</sup>	17.026 <sup>147</sup>	35.53 <sup>146</sup>	49.039 <sup>230</sup>	47.64 <sup>187</sup>	9.146 <sup>110</sup>	39.30 <sup>65</sup>
28.1	45.004 <sup>97</sup>	63.47 <sup>110</sup>	16.879 <sup>123</sup>	34.07 <sup>159</sup>	48.809 <sup>198</sup>	45.77 <sup>227</sup>	9.036 <sup>94</sup>	38.65 <sup>58</sup>
Sept. 7.1	44.907 <sup>71</sup>	62.37 <sup>107</sup>	16.756 <sup>90</sup>	32.48 <sup>165</sup>	48.611 <sup>157</sup>	43.50 <sup>264</sup>	8.942 <sup>69</sup>	38.07 <sup>48</sup>
17.1	44.836 <sup>36</sup>	61.30 <sup>99</sup>	16.666 <sup>50</sup>	30.83 <sup>165</sup>	48.454 <sup>108</sup>	40.86 <sup>295</sup>	8.873 <sup>38</sup>	37.59 <sup>33</sup>
27.0	44.800 <sup>4</sup>	60.31 <sup>85</sup>	16.616 <sup>3</sup>	29.18 <sup>157</sup>	48.346 <sup>53</sup>	37.91 <sup>322</sup>	8.835 <sup>1</sup>	37.26 <sup>15</sup>
Okt. 7.0	44.804 <sup>50</sup>	59.46 <sup>64</sup>	16.613 <sup>50</sup>	27.61 <sup>141</sup>	48.293 <sup>10</sup>	34.69 <sup>341</sup>	8.834 <sup>41</sup>	37.11 <sup>8</sup>
17.0	44.854 <sup>99</sup>	58.82 <sup>39</sup>	16.663 <sup>107</sup>	26.20 <sup>118</sup>	48.303 <sup>77</sup>	31.28 <sup>355</sup>	8.875 <sup>87</sup>	37.19 <sup>33</sup>
26.9	44.953 <sup>150</sup>	58.43 <sup>10</sup>	16.770 <sup>163</sup>	25.02 <sup>88</sup>	48.380 <sup>148</sup>	27.73 <sup>360</sup>	8.962 <sup>134</sup>	37.52 <sup>60</sup>
Nov. 5.9	45.103 <sup>199</sup>	58.33 <sup>23</sup>	16.933 <sup>220</sup>	24.14 <sup>53</sup>	48.528 <sup>219</sup>	24.13 <sup>357</sup>	9.096 <sup>182</sup>	38.12 <sup>89</sup>
15.9	45.302 <sup>245</sup>	58.56 <sup>57</sup>	17.153 <sup>270</sup>	23.61 <sup>12</sup>	48.747 <sup>287</sup>	20.56 <sup>345</sup>	9.278 <sup>225</sup>	39.01 <sup>117</sup>
25.9	45.547 <sup>283</sup>	59.13 <sup>92</sup>	17.423 <sup>313</sup>	23.49 <sup>28</sup>	49.034 <sup>350</sup>	17.11 <sup>322</sup>	9.503 <sup>264</sup>	40.18 <sup>142</sup>
Dez. 5.8	45.830 <sup>314</sup>	60.05 <sup>125</sup>	17.736 <sup>348</sup>	23.77 <sup>72</sup>	49.384 <sup>403</sup>	13.89 <sup>290</sup>	9.767 <sup>294</sup>	41.60 <sup>166</sup>
15.8	46.144 <sup>335</sup>	61.30 <sup>153</sup>	18.084 <sup>370</sup>	24.49 <sup>111</sup>	49.787 <sup>446</sup>	10.99 <sup>248</sup>	10.061 <sup>316</sup>	43.26 <sup>183</sup>
25.8	46.479 <sup>345</sup>	62.83 <sup>177</sup>	18.454 <sup>380</sup>	25.60 <sup>148</sup>	50.233 <sup>474</sup>	8.51 <sup>200</sup>	10.377 <sup>327</sup>	45.09 <sup>194</sup>
35.8	46.824	64.60	18.834	27.08	50.707	6.51	10.704	47.03
Mittl. Ort sec $\delta$ , tg $\delta$	43.902 1.084	56.89 -0.420	15.682 1.241	23.80 -0.735	49.715 1.758	37.60 +1.446	8.029 1.018	35.55 -0.190

Mittlere Zeit Greenw.	499) Gr. 2001		500) 69 H. Urs. maj.		501) ζ Virginis		502) 17 H. Can. ven.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	13 <sup>h</sup> 24 <sup>m</sup>	+72° 46'	13 <sup>h</sup> 25 <sup>m</sup>	+60° 20'	13 <sup>h</sup> 30 <sup>m</sup>	-0° 12'	13 <sup>h</sup> 31 <sup>m</sup>	+37° 34'
Jan. 0.8	7.17 <sub>82</sub>	72.27 <sub>133</sub>	35.98 <sub>53</sub>	21.37 <sub>159</sub>	45.685 <sub>321</sub>	7.04 <sub>203</sub>	20.670 <sub>371</sub>	26.22 <sub>199</sub>
10.8	7.99 <sub>84</sub>	70.94 <sub>67</sub>	36.51 <sub>54</sub>	19.78 <sub>98</sub>	46.006 <sub>317</sub>	9.07 <sub>193</sub>	21.041 <sub>372</sub>	24.23 <sub>150</sub>
20.7	8.83 <sub>82</sub>	70.27 <sub>1</sub>	37.05 <sub>52</sub>	18.80 <sub>34</sub>	46.323 <sub>305</sub>	11.00 <sub>176</sub>	21.413 <sub>362</sub>	22.73 <sub>99</sub>
30.7	9.65 <sub>77</sub>	70.26 <sub>67</sub>	37.57 <sub>50</sub>	18.46 <sub>31</sub>	46.628 <sub>283</sub>	12.76 <sub>154</sub>	21.775 <sub>339</sub>	21.74 <sub>44</sub>
Feb. 9.7	10.42 <sub>71</sub>	70.93 <sub>129</sub>	38.07 <sub>45</sub>	18.77 <sub>93</sub>	46.911 <sub>256</sub>	14.30 <sub>129</sub>	22.114 <sub>308</sub>	21.30 <sub>11</sub>
19.6	11.13 <sub>61</sub>	72.22 <sub>185</sub>	38.52 <sub>38</sub>	19.70 <sub>151</sub>	47.167 <sub>224</sub>	15.59 <sub>100</sub>	22.422 <sub>269</sub>	21.41 <sub>64</sub>
März 1.6	11.74 <sub>50</sub>	74.07 <sub>234</sub>	38.90 <sub>33</sub>	21.21 <sub>200</sub>	47.391 <sub>189</sub>	16.59 <sub>71</sub>	22.691 <sub>225</sub>	22.05 <sub>111</sub>
11.6	12.24 <sub>37</sub>	76.41 <sub>272</sub>	39.23 <sub>24</sub>	23.21 <sub>242</sub>	47.580 <sub>154</sub>	17.30 <sub>43</sub>	22.916 <sub>179</sub>	23.16 <sub>153</sub>
21.6	12.61 <sub>24</sub>	79.13 <sub>298</sub>	39.47 <sub>17</sub>	25.63 <sub>271</sub>	47.734 <sub>119</sub>	17.73 <sub>16</sub>	23.095 <sub>133</sub>	24.69 <sub>187</sub>
31.5	12.85 <sub>10</sub>	82.11 <sub>313</sub>	39.64 <sub>9</sub>	28.34 <sub>290</sub>	47.853 <sub>86</sub>	17.89 <sub>7</sub>	23.228 <sub>86</sub>	26.56 <sub>211</sub>
Apr. 10.5	12.95 <sub>2</sub>	85.24 <sub>314</sub>	39.73 <sub>1</sub>	31.24 <sub>297</sub>	47.939 <sub>55</sub>	17.82 <sub>28</sub>	23.314 <sub>42</sub>	28.67 <sub>226</sub>
20.5	12.93 <sub>15</sub>	88.38 <sub>306</sub>	39.74 <sub>6</sub>	34.21 <sub>293</sub>	47.994 <sub>26</sub>	17.54 <sub>45</sub>	23.356 <sub>2</sub>	30.93 <sub>232</sub>
30.5	12.78 <sub>26</sub>	91.44 <sub>285</sub>	39.68 <sub>12</sub>	37.14 <sub>279</sub>	48.020 <sub>0</sub>	17.09 <sub>57</sub>	23.358 <sub>35</sub>	33.25 <sub>229</sub>
Mai 10.4	12.52 <sub>36</sub>	94.29 <sub>255</sub>	39.56 <sub>18</sub>	39.93 <sub>255</sub>	48.020 <sub>24</sub>	16.52 <sub>67</sub>	23.323 <sub>68</sub>	35.54 <sub>218</sub>
20.4	12.16 <sub>46</sub>	96.84 <sub>219</sub>	39.38 <sub>23</sub>	42.48 <sub>223</sub>	47.996 <sub>45</sub>	15.85 <sub>72</sub>	23.255 <sub>97</sub>	37.72 <sub>200</sub>
30.4	11.70 <sub>51</sub>	99.03 <sub>174</sub>	39.15 <sub>27</sub>	44.71 <sub>184</sub>	47.951 <sub>65</sub>	15.13 <sub>75</sub>	23.158 <sub>121</sub>	39.72 <sub>175</sub>
Juni 9.3	11.19 <sub>57</sub>	100.77 <sub>125</sub>	38.88 <sub>29</sub>	46.55 <sub>142</sub>	47.886 <sub>82</sub>	14.38 <sub>76</sub>	23.037 <sub>142</sub>	41.47 <sub>147</sub>
19.3	10.62 <sub>61</sub>	102.02 <sub>74</sub>	38.59 <sub>33</sub>	47.97 <sub>93</sub>	47.804 <sub>98</sub>	13.62 <sub>74</sub>	22.895 <sub>158</sub>	42.94 <sub>112</sub>
29.3	10.01 <sub>63</sub>	102.76 <sub>20</sub>	38.26 <sub>33</sub>	48.90 <sub>45</sub>	47.706 <sub>109</sub>	12.88 <sub>71</sub>	22.737 <sub>171</sub>	44.06 <sub>77</sub>
Juli 9.3	9.38 <sub>64</sub>	102.96 <sub>34</sub>	37.93 <sub>34</sub>	49.35 <sub>6</sub>	47.597 <sub>119</sub>	12.17 <sub>65</sub>	22.566 <sub>178</sub>	44.83 <sub>38</sub>
19.2	8.74 <sub>62</sub>	102.62 <sub>87</sub>	37.59 <sub>35</sub>	49.29 <sub>57</sub>	47.478 <sub>125</sub>	11.52 <sub>59</sub>	22.388 <sub>182</sub>	45.21 <sub>1</sub>
29.2	8.12 <sub>61</sub>	101.75 <sub>139</sub>	37.24 <sub>33</sub>	48.72 <sub>106</sub>	47.353 <sub>126</sub>	10.93 <sub>49</sub>	22.206 <sub>179</sub>	45.20 <sub>39</sub>
Aug. 8.2	7.51 <sub>56</sub>	100.36 <sub>187</sub>	36.91 <sub>31</sub>	47.66 <sub>153</sub>	47.227 <sub>123</sub>	10.44 <sub>39</sub>	22.027 <sub>172</sub>	44.81 <sub>79</sub>
18.2	6.95 <sub>50</sub>	98.49 <sub>232</sub>	36.60 <sub>28</sub>	46.13 <sub>198</sub>	47.104 <sub>114</sub>	10.05 <sub>26</sub>	21.855 <sub>158</sub>	44.02 <sub>118</sub>
28.1	6.45 <sub>44</sub>	96.17 <sub>273</sub>	36.32 <sub>24</sub>	44.15 <sub>239</sub>	46.990 <sub>98</sub>	9.79 <sub>11</sub>	21.697 <sub>138</sub>	42.84 <sub>154</sub>
Sept. 7.1	6.01 <sub>37</sub>	93.44 <sub>307</sub>	36.08 <sub>20</sub>	41.76 <sub>276</sub>	46.892 <sub>76</sub>	9.68 <sub>6</sub>	21.559 <sub>111</sub>	41.30 <sub>189</sub>
17.1	5.64 <sub>26</sub>	90.37 <sub>338</sub>	35.88 <sub>14</sub>	39.00 <sub>308</sub>	46.816 <sub>47</sub>	9.74 <sub>26</sub>	21.448 <sub>76</sub>	39.41 <sub>222</sub>
27.0	5.38 <sub>16</sub>	86.99 <sub>360</sub>	35.74 <sub>8</sub>	35.92 <sub>334</sub>	46.769 <sub>12</sub>	10.00 <sub>47</sub>	21.372 <sub>35</sub>	37.19 <sub>250</sub>
Okt. 7.0	5.22 <sub>5</sub>	83.39 <sub>375</sub>	35.66 <sub>1</sub>	32.58 <sub>354</sub>	46.757 <sub>29</sub>	10.47 <sub>72</sub>	21.337 <sub>11</sub>	34.69 <sub>275</sub>
17.0	5.17 <sub>7</sub>	79.64 <sub>383</sub>	35.65 <sub>6</sub>	29.04 <sub>366</sub>	46.786 <sub>73</sub>	11.19 <sub>96</sub>	21.348 <sub>63</sub>	31.94 <sub>296</sub>
27.0	5.24 <sub>20</sub>	75.81 <sub>381</sub>	35.71 <sub>15</sub>	25.38 <sub>370</sub>	46.859 <sub>120</sub>	12.15 <sub>121</sub>	21.411 <sub>117</sub>	28.98 <sub>310</sub>
Nov. 5.9	5.44 <sub>32</sub>	72.00 <sub>371</sub>	35.86 <sub>23</sub>	21.68 <sub>365</sub>	46.979 <sub>167</sub>	13.36 <sub>146</sub>	21.528 <sub>172</sub>	25.88 <sub>317</sub>
15.9	5.76 <sub>46</sub>	68.29 <sub>350</sub>	36.09 <sub>30</sub>	18.03 <sub>351</sub>	47.146 <sub>210</sub>	14.82 <sub>168</sub>	21.700 <sub>225</sub>	22.71 <sub>317</sub>
25.9	6.22 <sub>56</sub>	64.79 <sub>319</sub>	36.39 <sub>38</sub>	14.52 <sub>326</sub>	47.356 <sub>250</sub>	16.50 <sub>186</sub>	21.925 <sub>273</sub>	19.54 <sub>308</sub>
Dez. 5.9	6.78 <sub>67</sub>	61.60 <sub>279</sub>	36.77 <sub>44</sub>	11.26 <sub>293</sub>	47.606 <sub>282</sub>	18.36 <sub>200</sub>	22.198 <sub>314</sub>	16.46 <sub>289</sub>
15.8	7.45 <sub>74</sub>	58.81 <sub>230</sub>	37.21 <sub>49</sub>	8.33 <sub>248</sub>	47.888 <sub>306</sub>	20.36 <sub>207</sub>	22.512 <sub>347</sub>	13.57 <sub>262</sub>
25.8	8.19 <sub>81</sub>	56.51 <sub>173</sub>	37.70 <sub>52</sub>	5.85 <sub>197</sub>	48.194 <sub>318</sub>	22.43 <sub>208</sub>	22.859 <sub>367</sub>	10.95 <sub>226</sub>
35.8	9.00	54.78	38.22	3.88	48.512	24.51	23.226	8.69
Mittl. Ort	10.13	87.76	37.69	35.34	46.085	9.97	21.612	35.13
sec δ, tg δ	3.379	+3.229	2.021	+1.756	1.000	-0.004	1.262	+0.769

Mittlere Zeit Greenw.	504) $\epsilon$ Centauri		507) $\tau$ Bootis		509) $\eta$ Ursae maj.		510) $\delta$ Virginis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	13 <sup>h</sup> 34 <sup>m</sup>	-53° 4'	13 <sup>h</sup> 43 <sup>m</sup>	+17° 50'	13 <sup>h</sup> 44 <sup>m</sup>	+49° 41'	13 <sup>h</sup> 45 <sup>m</sup>	-17° 44'
Jan. 0.8	59.946 <sup>482</sup>	12.68 <sup>113</sup>	35.501 <sup>326</sup>	21.15 <sup>212</sup>	29.166 <sup>424</sup>	38.46 <sup>197</sup>	40.732 <sup>333</sup>	54.69 <sup>178</sup>
10.8	60.428 <sup>476</sup>	13.81 <sup>156</sup>	35.827 <sup>326</sup>	19.03 <sup>184</sup>	29.590 <sup>431</sup>	36.49 <sup>142</sup>	41.065 <sup>333</sup>	56.47 <sup>187</sup>
20.7	60.904 <sup>457</sup>	15.37 <sup>195</sup>	36.153 <sup>317</sup>	17.19 <sup>149</sup>	30.021 <sup>425</sup>	35.07 <sup>82</sup>	41.398 <sup>320</sup>	58.34 <sup>190</sup>
30.7	61.361 <sup>426</sup>	17.32 <sup>226</sup>	36.470 <sup>298</sup>	15.70 <sup>109</sup>	30.446 <sup>404</sup>	34.25 <sup>21</sup>	41.718 <sup>301</sup>	60.24 <sup>188</sup>
Feb. 9.7	61.787 <sup>386</sup>	19.58 <sup>252</sup>	36.768 <sup>272</sup>	14.61 <sup>67</sup>	30.850 <sup>371</sup>	34.04 <sup>41</sup>	42.019 <sup>275</sup>	62.12 <sup>180</sup>
19.7	62.173 <sup>342</sup>	22.10 <sup>271</sup>	37.040 <sup>242</sup>	13.94 <sup>25</sup>	31.221 <sup>329</sup>	34.45 <sup>99</sup>	42.294 <sup>244</sup>	63.92 <sup>167</sup>
März 1.6	62.515 <sup>291</sup>	24.81 <sup>282</sup>	37.282 <sup>205</sup>	13.69 <sup>16</sup>	31.550 <sup>279</sup>	35.44 <sup>151</sup>	42.538 <sup>211</sup>	65.59 <sup>151</sup>
11.6	62.806 <sup>239</sup>	27.63 <sup>287</sup>	37.487 <sup>170</sup>	13.85 <sup>52</sup>	31.829 <sup>223</sup>	36.95 <sup>195</sup>	42.749 <sup>176</sup>	67.10 <sup>134</sup>
21.6	63.045 <sup>187</sup>	30.50 <sup>287</sup>	37.657 <sup>132</sup>	14.37 <sup>86</sup>	32.052 <sup>167</sup>	38.90 <sup>232</sup>	42.925 <sup>141</sup>	68.44 <sup>115</sup>
31.5	63.232 <sup>134</sup>	33.37 <sup>280</sup>	37.789 <sup>96</sup>	15.23 <sup>113</sup>	32.219 <sup>109</sup>	41.22 <sup>256</sup>	43.066 <sup>108</sup>	69.59 <sup>95</sup>
Apr. 10.5	63.366 <sup>85</sup>	36.17 <sup>268</sup>	37.885 <sup>61</sup>	16.36 <sup>133</sup>	32.328 <sup>53</sup>	43.78 <sup>272</sup>	43.174 <sup>77</sup>	70.54 <sup>77</sup>
20.5	63.451 <sup>35</sup>	38.85 <sup>252</sup>	37.946 <sup>30</sup>	17.69 <sup>146</sup>	32.381 <sup>1</sup>	46.50 <sup>275</sup>	43.251 <sup>46</sup>	71.31 <sup>58</sup>
30.5	63.486 <sup>11</sup>	41.37 <sup>231</sup>	37.976 <sup>1</sup>	19.15 <sup>154</sup>	32.382 <sup>49</sup>	49.25 <sup>270</sup>	43.297 <sup>19</sup>	71.89 <sup>41</sup>
Mai 10.4	63.475 <sup>56</sup>	43.68 <sup>205</sup>	37.977 <sup>27</sup>	20.69 <sup>153</sup>	32.333 <sup>92</sup>	51.95 <sup>254</sup>	43.316 <sup>8</sup>	72.30 <sup>26</sup>
20.4	63.419 <sup>98</sup>	45.73 <sup>176</sup>	37.950 <sup>50</sup>	22.22 <sup>149</sup>	32.241 <sup>31</sup>	54.49 <sup>230</sup>	43.308 <sup>32</sup>	72.56 <sup>10</sup>
30.4	63.321 <sup>137</sup>	47.49 <sup>144</sup>	37.900 <sup>73</sup>	23.71 <sup>139</sup>	32.110 <sup>165</sup>	56.79 <sup>200</sup>	43.276 <sup>56</sup>	72.66 <sup>5</sup>
Juni 9.4	63.184 <sup>173</sup>	48.93 <sup>108</sup>	37.827 <sup>91</sup>	25.10 <sup>125</sup>	31.945 <sup>194</sup>	58.79 <sup>164</sup>	43.220 <sup>76</sup>	72.61 <sup>18</sup>
19.3	63.011 <sup>205</sup>	50.01 <sup>70</sup>	37.736 <sup>109</sup>	26.35 <sup>107</sup>	31.751 <sup>215</sup>	60.43 <sup>123</sup>	43.144 <sup>96</sup>	72.43 <sup>31</sup>
29.3	62.806 <sup>229</sup>	50.71 <sup>29</sup>	37.627 <sup>121</sup>	27.42 <sup>87</sup>	31.536 <sup>233</sup>	61.66 <sup>81</sup>	43.048 <sup>113</sup>	72.12 <sup>43</sup>
Juli 9.3	62.577 <sup>249</sup>	51.00 <sup>12</sup>	37.506 <sup>133</sup>	28.29 <sup>65</sup>	31.303 <sup>243</sup>	62.47 <sup>34</sup>	42.935 <sup>126</sup>	71.69 <sup>54</sup>
19.2	62.328 <sup>260</sup>	50.88 <sup>52</sup>	37.373 <sup>139</sup>	28.94 <sup>41</sup>	31.060 <sup>249</sup>	62.81 <sup>12</sup>	42.809 <sup>135</sup>	71.15 <sup>63</sup>
29.2	62.068 <sup>261</sup>	50.36 <sup>93</sup>	37.234 <sup>142</sup>	29.35 <sup>15</sup>	30.811 <sup>247</sup>	62.69 <sup>58</sup>	42.674 <sup>140</sup>	70.52 <sup>72</sup>
Aug. 8.2	61.807 <sup>254</sup>	49.43 <sup>129</sup>	37.092 <sup>140</sup>	29.50 <sup>11</sup>	30.564 <sup>237</sup>	62.11 <sup>105</sup>	42.534 <sup>139</sup>	69.80 <sup>78</sup>
18.2	61.553 <sup>234</sup>	48.14 <sup>162</sup>	36.952 <sup>131</sup>	29.39 <sup>38</sup>	30.327 <sup>222</sup>	61.06 <sup>148</sup>	42.395 <sup>131</sup>	69.02 <sup>81</sup>
28.1	61.319 <sup>203</sup>	46.52 <sup>190</sup>	36.821 <sup>116</sup>	29.01 <sup>66</sup>	30.105 <sup>198</sup>	59.58 <sup>189</sup>	42.264 <sup>116</sup>	68.21 <sup>81</sup>
Sept. 7.1	61.116 <sup>161</sup>	44.62 <sup>211</sup>	36.705 <sup>95</sup>	28.35 <sup>93</sup>	29.907 <sup>166</sup>	57.69 <sup>229</sup>	42.148 <sup>93</sup>	67.40 <sup>76</sup>
17.1	60.955 <sup>108</sup>	42.51 <sup>223</sup>	36.610 <sup>67</sup>	27.42 <sup>122</sup>	29.741 <sup>126</sup>	55.40 <sup>263</sup>	42.055 <sup>64</sup>	66.64 <sup>67</sup>
27.1	60.847 <sup>46</sup>	40.28 <sup>228</sup>	36.543 <sup>32</sup>	26.20 <sup>148</sup>	29.615 <sup>78</sup>	52.77 <sup>294</sup>	41.991 <sup>26</sup>	65.97 <sup>54</sup>
Okt. 7.0	60.801 <sup>25</sup>	38.00 <sup>223</sup>	36.511 <sup>9</sup>	24.72 <sup>175</sup>	29.537 <sup>24</sup>	49.83 <sup>319</sup>	41.965 <sup>17</sup>	65.43 <sup>36</sup>
17.0	60.826 <sup>100</sup>	35.77 <sup>207</sup>	36.520 <sup>54</sup>	22.97 <sup>200</sup>	29.513 <sup>37</sup>	46.64 <sup>338</sup>	41.982 <sup>64</sup>	65.07 <sup>13</sup>
27.0	60.926 <sup>176</sup>	33.70 <sup>183</sup>	36.574 <sup>101</sup>	20.97 <sup>220</sup>	29.550 <sup>101</sup>	43.26 <sup>349</sup>	42.046 <sup>115</sup>	64.94 <sup>12</sup>
Nov. 5.9	61.102 <sup>251</sup>	31.87 <sup>149</sup>	36.675 <sup>151</sup>	18.77 <sup>239</sup>	29.651 <sup>166</sup>	39.77 <sup>354</sup>	42.161 <sup>165</sup>	65.06 <sup>47</sup>
15.9	61.353 <sup>319</sup>	30.38 <sup>110</sup>	36.826 <sup>197</sup>	16.38 <sup>251</sup>	29.817 <sup>231</sup>	36.23 <sup>348</sup>	42.326 <sup>211</sup>	65.48 <sup>71</sup>
25.9	61.672 <sup>378</sup>	29.28 <sup>63</sup>	37.023 <sup>239</sup>	13.87 <sup>257</sup>	30.048 <sup>290</sup>	32.75 <sup>333</sup>	42.537 <sup>255</sup>	66.19 <sup>100</sup>
Dez. 5.9	62.050 <sup>426</sup>	28.65 <sup>15</sup>	37.262 <sup>276</sup>	11.30 <sup>255</sup>	30.338 <sup>343</sup>	29.42 <sup>308</sup>	42.792 <sup>289</sup>	67.19 <sup>127</sup>
15.8	62.476 <sup>459</sup>	28.50 <sup>36</sup>	37.538 <sup>304</sup>	8.75 <sup>247</sup>	30.681 <sup>385</sup>	26.34 <sup>274</sup>	43.081 <sup>315</sup>	68.46 <sup>152</sup>
25.8	62.935 <sup>477</sup>	28.86 <sup>84</sup>	37.842 <sup>321</sup>	6.28 <sup>229</sup>	31.066 <sup>415</sup>	23.60 <sup>230</sup>	43.396 <sup>330</sup>	69.98 <sup>171</sup>
35.8	63.412	29.70	38.163	3.99	31.481	21.30	43.726	71.69
Mittl. Ort sec $\delta$ , tg $\delta$	59.826 1.665	32.06 -1.331	36.180 1.051	23.73 +0.322	30.537 1.546	49.47 +1.179	41.057 1.050	64.13 -0.320



# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	512) ζ Centauri		513) η Bootis		517) ιι Bootis		516) τ Virginis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	13 <sup>h</sup> 50 <sup>m</sup>	-46° 54'	13 <sup>h</sup> 51 <sup>m</sup>	+18° 46'	13 <sup>h</sup> 57 <sup>m</sup>	+27° 45'	13 <sup>h</sup> 57 <sup>m</sup>	+1° 54'
Jan. 0.8	43.444	18.00	0.375	56.69	40.142	23.48	43.010	62.51
10.8	43.879	19.09	0.700	54.52	40.478	21.27	43.327	60.47
20.7	44.311	20.57	1.028	52.65	40.820	19.44	43.645	58.55
30.7	44.730	22.39	1.348	51.14	41.156	18.05	43.955	56.81
Feb. 9.7	45.125	24.48	1.650	50.03	41.476	17.14	44.249	55.32
19.7	45.488	26.78	1.929	49.34	41.772	16.73	44.520	54.09
März 1.6	45.812	29.23	2.176	49.10	42.038	16.82	44.762	53.17
11.6	46.094	31.77	2.390	49.27	42.267	17.37	44.974	52.56
21.6	46.332	34.35	2.567	49.82	42.459	18.35	45.152	52.25
31.6	46.523	36.90	2.707	50.71	42.610	19.70	45.297	52.23
Apr. 10.5	46.671	39.38	2.812	51.88	42.723	21.33	45.410	52.45
20.5	46.775	41.75	2.882	53.25	42.797	23.18	45.491	52.89
30.5	46.835	43.97	2.919	54.77	42.836	25.15	45.543	53.50
Mai 10.4	46.855	46.00	2.926	56.35	42.842	27.17	45.567	54.23
20.4	46.834	47.82	2.906	57.95	42.817	29.16	45.566	55.04
30.4	46.776	49.38	2.861	59.49	42.763	31.06	45.540	55.91
Juni 9.4	46.681	50.65	2.793	60.93	42.685	32.79	45.492	56.78
19.3	46.553	51.62	2.705	62.22	42.583	34.32	45.424	57.65
29.3	46.395	52.25	2.598	63.34	42.462	35.60	45.336	58.47
Juli 9.3	46.211	52.54	2.477	64.24	42.324	36.59	45.232	59.22
19.3	46.007	52.46	2.344	64.91	42.174	37.27	45.114	59.90
29.2	45.788	52.03	2.203	65.33	42.015	37.64	44.987	60.48
Aug. 8.2	45.563	51.25	2.058	65.48	41.852	37.66	44.853	60.95
18.2	45.341	50.15	1.915	65.37	41.690	37.35	44.719	61.29
28.1	45.132	48.74	1.779	64.97	41.536	36.69	44.591	61.48
Sept. 7.1	44.945	47.10	1.657	64.29	41.395	35.69	44.474	61.51
17.1	44.792	45.26	1.555	63.32	41.276	34.35	44.377	61.35
27.1	44.683	43.31	1.481	62.07	41.186	32.70	44.306	60.99
Okt. 7.0	44.627	41.32	1.442	60.54	41.131	30.74	44.268	60.41
17.0	44.632	39.39	1.443	58.74	41.118	28.50	44.270	59.60
27.0	44.703	37.59	1.489	56.70	41.152	26.02	44.315	58.54
Nov. 6.0	44.843	36.02	1.583	54.44	41.236	23.33	44.409	57.24
15.9	45.051	34.75	1.727	52.00	41.373	20.50	44.550	55.70
25.9	45.323	33.84	1.918	49.43	41.559	17.58	44.737	53.96
Dez. 5.9	45.650	33.35	2.152	46.81	41.793	14.66	44.966	52.04
15.8	46.023	33.31	2.424	44.20	42.068	11.82	45.232	50.00
25.8	46.431	33.71	2.725	41.69	42.375	9.14	45.525	47.89
35.8	46.859	34.56	3.046	39.35	42.706	6.71	45.836	45.80
Mittl. Ort	43.561	36.19	1.107	59.22	41.048	28.37	43.584	59.28
sec δ, tg δ	1.464	-1.069	1.056	+0.340	1.130	+0.526	1.001	+0.033

Mittlere Zeit Greenw.	518) $\beta$ Centauri		520) $\theta$ Centauri		521) $\alpha$ Draconis		522) $d$ Bootis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	13 <sup>h</sup> 58 <sup>m</sup>	-59° 59'	14 <sup>h</sup> 2 <sup>m</sup>	-35° 59'	14 <sup>h</sup> 2 <sup>m</sup>	+64° 44'	14 <sup>h</sup> 6 <sup>m</sup>	+25° 27'
Jan. 0.8	22.401 <sup>560</sup>	47.60 <sup>64</sup>	8.321 <sup>377</sup>	15.42 <sup>127</sup>	15.81 <sup>57</sup>	24.34 <sup>196</sup>	52.361 <sup>330</sup>	17.04 <sup>225</sup>
10.8	22.961 <sup>562</sup>	48.24 <sup>113</sup>	8.698 <sup>379</sup>	16.69 <sup>156</sup>	16.38 <sup>60</sup>	22.38 <sup>134</sup>	52.691 <sup>336</sup>	14.79 <sup>190</sup>
20.8	23.523 <sup>548</sup>	49.37 <sup>58</sup>	9.077 <sup>368</sup>	18.25 <sup>178</sup>	16.98 <sup>60</sup>	21.04 <sup>70</sup>	53.027 <sup>332</sup>	12.89 <sup>149</sup>
30.7	24.071 <sup>520</sup>	50.95 <sup>197</sup>	9.445 <sup>350</sup>	20.03 <sup>197</sup>	17.58 <sup>58</sup>	20.34 <sup>3</sup>	53.359 <sup>318</sup>	11.40 <sup>102</sup>
Feb. 9.7	24.591 <sup>481</sup>	52.92 <sup>230</sup>	9.795 <sup>323</sup>	22.00 <sup>207</sup>	18.16 <sup>55</sup>	20.31 <sup>64</sup>	53.677 <sup>295</sup>	10.38 <sup>54</sup>
19.7	25.072 <sup>435</sup>	55.22 <sup>258</sup>	10.118 <sup>291</sup>	24.07 <sup>214</sup>	18.71 <sup>49</sup>	20.95 <sup>126</sup>	53.972 <sup>267</sup>	9.84 <sup>5</sup>
März 1.7	25.507 <sup>380</sup>	57.80 <sup>276</sup>	10.409 <sup>255</sup>	26.21 <sup>214</sup>	19.20 <sup>42</sup>	22.21 <sup>181</sup>	54.239 <sup>234</sup>	9.79 <sup>47</sup>
11.6	25.887 <sup>324</sup>	60.56 <sup>290</sup>	10.664 <sup>219</sup>	28.35 <sup>211</sup>	19.62 <sup>35</sup>	24.02 <sup>230</sup>	54.473 <sup>197</sup>	10.21 <sup>84</sup>
21.6	26.211 <sup>263</sup>	63.46 <sup>297</sup>	10.883 <sup>181</sup>	30.46 <sup>203</sup>	19.97 <sup>26</sup>	26.32 <sup>266</sup>	54.670 <sup>159</sup>	11.05 <sup>121</sup>
31.6	26.474 <sup>203</sup>	66.43 <sup>297</sup>	11.064 <sup>143</sup>	32.49 <sup>193</sup>	20.23 <sup>17</sup>	28.98 <sup>293</sup>	54.829 <sup>121</sup>	12.26 <sup>151</sup>
Apr. 10.5	26.677 <sup>142</sup>	69.40 <sup>293</sup>	11.207 <sup>106</sup>	34.42 <sup>180</sup>	20.40 <sup>8</sup>	31.91 <sup>307</sup>	54.950 <sup>85</sup>	13.77 <sup>174</sup>
20.5	26.819 <sup>82</sup>	72.33 <sup>281</sup>	11.313 <sup>71</sup>	36.22 <sup>165</sup>	20.48 <sup>0</sup>	34.98 <sup>310</sup>	55.035 <sup>51</sup>	15.51 <sup>187</sup>
30.5	26.901 <sup>23</sup>	75.14 <sup>266</sup>	11.384 <sup>37</sup>	37.87 <sup>146</sup>	20.48 <sup>8</sup>	38.08 <sup>302</sup>	55.086 <sup>17</sup>	17.38 <sup>195</sup>
Mai 10.5	26.924 <sup>37</sup>	77.80 <sup>244</sup>	11.421 <sup>2</sup>	39.33 <sup>129</sup>	20.40 <sup>16</sup>	41.10 <sup>283</sup>	55.103 <sup>13</sup>	19.33 <sup>194</sup>
20.4	26.887 <sup>91</sup>	80.24 <sup>218</sup>	11.423 <sup>28</sup>	40.62 <sup>107</sup>	20.24 <sup>22</sup>	43.93 <sup>256</sup>	55.090 <sup>42</sup>	21.27 <sup>186</sup>
30.4	26.796 <sup>145</sup>	82.42 <sup>187</sup>	11.395 <sup>60</sup>	41.69 <sup>84</sup>	20.02 <sup>29</sup>	46.49 <sup>221</sup>	55.048 <sup>68</sup>	23.13 <sup>172</sup>
Juni 9.4	26.651 <sup>195</sup>	84.29 <sup>151</sup>	11.335 <sup>89</sup>	42.53 <sup>61</sup>	19.73 <sup>33</sup>	48.70 <sup>179</sup>	54.980 <sup>92</sup>	24.85 <sup>154</sup>
19.4	26.456 <sup>238</sup>	85.80 <sup>114</sup>	11.246 <sup>115</sup>	43.74 <sup>35</sup>	19.40 <sup>37</sup>	50.49 <sup>134</sup>	54.888 <sup>112</sup>	26.39 <sup>131</sup>
29.3	26.218 <sup>277</sup>	86.94 <sup>71</sup>	11.131 <sup>139</sup>	43.49 <sup>9</sup>	19.03 <sup>41</sup>	51.83 <sup>84</sup>	54.776 <sup>130</sup>	27.70 <sup>104</sup>
Juli 9.3	25.941 <sup>306</sup>	87.65 <sup>28</sup>	10.992 <sup>158</sup>	43.58 <sup>17</sup>	18.62 <sup>42</sup>	52.67 <sup>32</sup>	54.646 <sup>144</sup>	28.74 <sup>75</sup>
19.3	25.635 <sup>327</sup>	87.93 <sup>17</sup>	10.834 <sup>173</sup>	43.41 <sup>43</sup>	18.20 <sup>43</sup>	52.99 <sup>20</sup>	54.502 <sup>156</sup>	29.49 <sup>45</sup>
29.2	25.308 <sup>336</sup>	87.76 <sup>62</sup>	10.661 <sup>182</sup>	42.98 <sup>60</sup>	17.77 <sup>43</sup>	52.79 <sup>71</sup>	54.346 <sup>160</sup>	29.94 <sup>13</sup>
Aug. 8.2	24.972 <sup>332</sup>	87.14 <sup>105</sup>	10.479 <sup>182</sup>	42.29 <sup>92</sup>	17.34 <sup>42</sup>	52.08 <sup>123</sup>	54.186 <sup>161</sup>	30.07 <sup>21</sup>
18.2	24.640 <sup>315</sup>	86.09 <sup>145</sup>	10.297 <sup>175</sup>	41.37 <sup>113</sup>	16.92 <sup>40</sup>	50.85 <sup>171</sup>	54.025 <sup>156</sup>	29.86 <sup>53</sup>
28.2	24.325 <sup>283</sup>	84.64 <sup>180</sup>	10.122 <sup>159</sup>	40.24 <sup>129</sup>	16.52 <sup>36</sup>	49.14 <sup>216</sup>	53.869 <sup>143</sup>	29.33 <sup>86</sup>
Sept. 7.1	24.042 <sup>236</sup>	82.84 <sup>210</sup>	9.963 <sup>133</sup>	38.95 <sup>141</sup>	16.16 <sup>31</sup>	46.98 <sup>258</sup>	53.726 <sup>124</sup>	28.47 <sup>120</sup>
17.1	23.806 <sup>177</sup>	80.74 <sup>231</sup>	9.830 <sup>98</sup>	37.54 <sup>146</sup>	15.85 <sup>26</sup>	44.40 <sup>295</sup>	53.602 <sup>96</sup>	27.27 <sup>151</sup>
27.1	23.629 <sup>105</sup>	78.43 <sup>244</sup>	9.732 <sup>56</sup>	36.08 <sup>145</sup>	15.59 <sup>19</sup>	41.45 <sup>326</sup>	53.506 <sup>62</sup>	25.76 <sup>181</sup>
Okt. 7.1	23.524 <sup>22</sup>	75.99 <sup>247</sup>	9.676 <sup>4</sup>	34.63 <sup>137</sup>	15.40 <sup>11</sup>	38.19 <sup>352</sup>	53.444 <sup>21</sup>	23.95 <sup>211</sup>
17.0	23.502 <sup>67</sup>	73.52 <sup>239</sup>	9.672 <sup>51</sup>	33.26 <sup>121</sup>	15.29 <sup>3</sup>	34.67 <sup>369</sup>	53.423 <sup>24</sup>	21.84 <sup>235</sup>
27.0	23.569 <sup>158</sup>	71.13 <sup>222</sup>	9.723 <sup>111</sup>	32.05 <sup>99</sup>	15.26 <sup>7</sup>	30.98 <sup>379</sup>	53.447 <sup>75</sup>	19.49 <sup>257</sup>
Nov. 6.0	23.727 <sup>249</sup>	68.91 <sup>195</sup>	9.834 <sup>169</sup>	31.06 <sup>71</sup>	15.33 <sup>16</sup>	27.19 <sup>380</sup>	53.522 <sup>126</sup>	16.92 <sup>274</sup>
15.9	23.976 <sup>335</sup>	66.96 <sup>159</sup>	10.003 <sup>226</sup>	30.35 <sup>38</sup>	15.49 <sup>25</sup>	23.39 <sup>370</sup>	53.648 <sup>177</sup>	14.18 <sup>284</sup>
25.9	24.311 <sup>409</sup>	65.37 <sup>116</sup>	10.229 <sup>276</sup>	29.97 <sup>2</sup>	15.74 <sup>35</sup>	19.69 <sup>352</sup>	53.825 <sup>223</sup>	11.34 <sup>287</sup>
Dez. 5.9	24.720 <sup>472</sup>	64.21 <sup>69</sup>	10.505 <sup>319</sup>	29.95 <sup>37</sup>	16.09 <sup>43</sup>	16.17 <sup>321</sup>	54.048 <sup>265</sup>	8.47 <sup>282</sup>
15.9	25.192 <sup>519</sup>	63.52 <sup>17</sup>	10.824 <sup>350</sup>	30.32 <sup>73</sup>	16.52 <sup>50</sup>	12.96 <sup>282</sup>	54.313 <sup>298</sup>	5.65 <sup>268</sup>
25.8	25.711 <sup>548</sup>	63.35 <sup>35</sup>	11.174 <sup>370</sup>	31.05 <sup>109</sup>	17.02 <sup>55</sup>	10.14 <sup>233</sup>	54.611 <sup>322</sup>	2.97 <sup>246</sup>
35.8	26.259	63.70	11.544	32.14	17.57	7.81	54.933	0.51
Mittl. Ort sec $\delta$ , tg $\delta$	22.485 2.000	68.75 -1.732	8.623 1.236	30.88 -0.726	18.22 2.344	36.70 + 2.120	53.278 1.107	20.81 +0.476

Mittlere Zeit Greenw.	523) $\alpha$ Virginis		524) $\delta$ Ursae min.		525) $\epsilon$ Virginis		526) $\alpha$ Bootis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	14 <sup>h</sup> 8 <sup>m</sup>	-9° 54'	14 <sup>h</sup> 8 <sup>m</sup>	+77° 54'	14 <sup>h</sup> 11 <sup>m</sup>	-5° 37'	14 <sup>h</sup> 12 <sup>m</sup>	+19° 34'
Jan. 0.8	46.596 <sup>320</sup>	50.12 <sup>181</sup>	62.22 <sup>104</sup>	20.71 <sup>181</sup>	57.854 <sup>316</sup>	55.49 <sup>191</sup>	8.067 <sup>318</sup>	55.77 <sup>229</sup>
10.8	46.916 <sup>323</sup>	51.93 <sup>184</sup>	63.26 <sup>110</sup>	18.90 <sup>117</sup>	58.170 <sup>319</sup>	57.40 <sup>187</sup>	8.385 <sup>324</sup>	53.48 <sup>200</sup>
20.8	47.239 <sup>316</sup>	53.77 <sup>178</sup>	64.36 <sup>113</sup>	17.73 <sup>50</sup>	58.489 <sup>314</sup>	59.27 <sup>178</sup>	8.709 <sup>320</sup>	51.48 <sup>164</sup>
30.7	47.555 <sup>302</sup>	55.55 <sup>167</sup>	65.49 <sup>111</sup>	17.23 <sup>17</sup>	58.803 <sup>300</sup>	61.05 <sup>162</sup>	9.029 <sup>308</sup>	49.84 <sup>123</sup>
Feb. 9.7	47.857 <sup>280</sup>	57.22 <sup>152</sup>	66.60 <sup>105</sup>	17.40 <sup>84</sup>	59.103 <sup>278</sup>	62.67 <sup>143</sup>	9.337 <sup>286</sup>	48.61 <sup>80</sup>
19.7	48.137 <sup>253</sup>	58.74 <sup>133</sup>	67.65 <sup>96</sup>	18.24 <sup>146</sup>	59.381 <sup>253</sup>	64.10 <sup>119</sup>	9.623 <sup>260</sup>	47.81 <sup>34</sup>
März 1.7	48.390 <sup>223</sup>	60.07 <sup>111</sup>	68.61 <sup>83</sup>	19.70 <sup>201</sup>	59.634 <sup>223</sup>	65.29 <sup>94</sup>	9.883 <sup>228</sup>	47.47 <sup>10</sup>
11.6	48.613 <sup>191</sup>	61.18 <sup>89</sup>	69.44 <sup>68</sup>	21.71 <sup>248</sup>	59.857 <sup>192</sup>	66.23 <sup>69</sup>	10.111 <sup>194</sup>	47.57 <sup>50</sup>
21.6	48.804 <sup>160</sup>	62.07 <sup>66</sup>	70.12 <sup>50</sup>	24.19 <sup>283</sup>	60.049 <sup>160</sup>	66.92 <sup>44</sup>	10.305 <sup>158</sup>	48.07 <sup>86</sup>
31.6	48.964 <sup>127</sup>	62.73 <sup>44</sup>	70.62 <sup>32</sup>	27.02 <sup>307</sup>	60.209 <sup>129</sup>	67.36 <sup>21</sup>	10.463 <sup>124</sup>	48.93 <sup>115</sup>
Apr. 10.5	49.091 <sup>97</sup>	63.17 <sup>25</sup>	70.94 <sup>14</sup>	30.09 <sup>319</sup>	60.338 <sup>98</sup>	67.57 <sup>0</sup>	10.587 <sup>89</sup>	50.08 <sup>139</sup>
20.5	49.188 <sup>68</sup>	63.42 <sup>8</sup>	71.08 <sup>5</sup>	33.28 <sup>319</sup>	60.436 <sup>69</sup>	67.57 <sup>17</sup>	10.676 <sup>57</sup>	51.47 <sup>155</sup>
30.5	49.256 <sup>40</sup>	63.50 <sup>7</sup>	71.03 <sup>23</sup>	36.47 <sup>308</sup>	60.505 <sup>42</sup>	67.40 <sup>31</sup>	10.733 <sup>25</sup>	53.02 <sup>163</sup>
Mai 10.5	49.296 <sup>13</sup>	63.43 <sup>20</sup>	70.80 <sup>39</sup>	39.55 <sup>286</sup>	60.547 <sup>14</sup>	67.09 <sup>42</sup>	10.758 <sup>4</sup>	54.65 <sup>166</sup>
20.4	49.309 <sup>13</sup>	63.23 <sup>30</sup>	70.41 <sup>54</sup>	42.41 <sup>255</sup>	60.561 <sup>11</sup>	66.67 <sup>51</sup>	10.754 <sup>31</sup>	56.31 <sup>161</sup>
30.4	49.296 <sup>37</sup>	62.93 <sup>39</sup>	69.87 <sup>66</sup>	44.96 <sup>217</sup>	60.550 <sup>36</sup>	66.16 <sup>57</sup>	10.723 <sup>57</sup>	57.92 <sup>152</sup>
Juni 9.4	49.259 <sup>60</sup>	62.54 <sup>45</sup>	69.21 <sup>78</sup>	47.13 <sup>173</sup>	60.514 <sup>58</sup>	65.59 <sup>60</sup>	10.666 <sup>81</sup>	59.44 <sup>137</sup>
19.4	49.199 <sup>81</sup>	62.09 <sup>50</sup>	68.43 <sup>86</sup>	48.86 <sup>124</sup>	60.456 <sup>79</sup>	64.99 <sup>62</sup>	10.585 <sup>101</sup>	60.81 <sup>120</sup>
29.3	49.118 <sup>101</sup>	61.59 <sup>55</sup>	67.57 <sup>92</sup>	50.10 <sup>71</sup>	60.377 <sup>99</sup>	64.37 <sup>62</sup>	10.484 <sup>120</sup>	62.01 <sup>97</sup>
Juli 9.3	49.017 <sup>116</sup>	61.04 <sup>57</sup>	66.65 <sup>96</sup>	50.81 <sup>18</sup>	60.278 <sup>115</sup>	63.75 <sup>61</sup>	10.364 <sup>135</sup>	62.98 <sup>74</sup>
19.3	48.901 <sup>130</sup>	60.47 <sup>59</sup>	65.69 <sup>98</sup>	50.99 <sup>37</sup>	60.163 <sup>128</sup>	63.14 <sup>58</sup>	10.229 <sup>146</sup>	63.72 <sup>48</sup>
29.2	48.771 <sup>137</sup>	59.88 <sup>59</sup>	64.71 <sup>97</sup>	50.62 <sup>89</sup>	60.035 <sup>136</sup>	62.56 <sup>53</sup>	10.083 <sup>154</sup>	64.20 <sup>20</sup>
Aug. 8.2	48.634 <sup>140</sup>	59.29 <sup>57</sup>	63.74 <sup>93</sup>	49.73 <sup>142</sup>	59.899 <sup>139</sup>	62.03 <sup>48</sup>	9.929 <sup>155</sup>	64.40 <sup>9</sup>
18.2	48.494 <sup>136</sup>	58.72 <sup>54</sup>	62.81 <sup>89</sup>	48.31 <sup>190</sup>	59.760 <sup>137</sup>	61.55 <sup>40</sup>	9.774 <sup>152</sup>	64.31 <sup>38</sup>
28.2	48.358 <sup>126</sup>	58.18 <sup>47</sup>	61.92 <sup>82</sup>	46.41 <sup>235</sup>	59.623 <sup>136</sup>	61.15 <sup>30</sup>	9.622 <sup>140</sup>	63.93 <sup>67</sup>
Sept. 7.1	48.232 <sup>107</sup>	57.71 <sup>37</sup>	61.10 <sup>72</sup>	44.06 <sup>276</sup>	59.497 <sup>108</sup>	60.85 <sup>17</sup>	9.482 <sup>122</sup>	63.26 <sup>97</sup>
17.1	48.125 <sup>80</sup>	57.34 <sup>25</sup>	60.38 <sup>61</sup>	41.30 <sup>311</sup>	59.389 <sup>82</sup>	60.68 <sup>2</sup>	9.360 <sup>96</sup>	62.29 <sup>128</sup>
27.1	48.045 <sup>47</sup>	57.09 <sup>10</sup>	59.77 <sup>48</sup>	38.19 <sup>341</sup>	59.307 <sup>50</sup>	60.66 <sup>16</sup>	9.264 <sup>64</sup>	61.01 <sup>156</sup>
Okt. 7.1	47.998 <sup>6</sup>	56.99 <sup>10</sup>	59.29 <sup>32</sup>	34.78 <sup>364</sup>	59.257 <sup>10</sup>	60.82 <sup>36</sup>	9.200 <sup>24</sup>	59.45 <sup>184</sup>
17.0	47.992 <sup>38</sup>	57.09 <sup>32</sup>	58.97 <sup>15</sup>	31.14 <sup>378</sup>	59.247 <sup>34</sup>	61.18 <sup>60</sup>	9.176 <sup>21</sup>	57.61 <sup>209</sup>
27.0	48.030 <sup>88</sup>	57.41 <sup>56</sup>	58.82 <sup>1</sup>	27.36 <sup>385</sup>	59.281 <sup>82</sup>	61.78 <sup>83</sup>	9.197 <sup>68</sup>	55.52 <sup>233</sup>
Nov. 6.0	48.118 <sup>136</sup>	57.97 <sup>82</sup>	58.83 <sup>20</sup>	23.51 <sup>382</sup>	59.363 <sup>131</sup>	62.61 <sup>108</sup>	9.265 <sup>120</sup>	53.19 <sup>251</sup>
15.9	48.254 <sup>185</sup>	58.79 <sup>106</sup>	59.03 <sup>39</sup>	19.69 <sup>370</sup>	59.494 <sup>179</sup>	63.69 <sup>132</sup>	9.385 <sup>168</sup>	50.68 <sup>265</sup>
25.9	48.439 <sup>228</sup>	59.85 <sup>131</sup>	59.42 <sup>56</sup>	15.99 <sup>346</sup>	59.673 <sup>222</sup>	65.01 <sup>153</sup>	9.553 <sup>214</sup>	48.03 <sup>271</sup>
Dez. 5.9	48.667 <sup>266</sup>	61.16 <sup>152</sup>	59.98 <sup>73</sup>	12.53 <sup>314</sup>	59.895 <sup>260</sup>	66.54 <sup>172</sup>	9.767 <sup>255</sup>	45.32 <sup>272</sup>
15.9	48.933 <sup>295</sup>	62.68 <sup>168</sup>	60.71 <sup>88</sup>	9.39 <sup>270</sup>	60.155 <sup>289</sup>	68.26 <sup>184</sup>	10.022 <sup>287</sup>	42.60 <sup>263</sup>
25.8	49.228 <sup>314</sup>	64.36 <sup>180</sup>	61.59 <sup>99</sup>	6.69 <sup>219</sup>	60.444 <sup>310</sup>	70.10 <sup>192</sup>	10.309 <sup>310</sup>	39.97 <sup>246</sup>
35.8	49.542	66.16	62.58	4.50	60.754	72.02	10.619	37.51
Mittl. Ort sec $\delta$ , tg $\delta$	47.126 1.015	57.63 -0.175	67.34 4.774	33.69 +4.668	58.438 1.005	61.70 -0.099	8.922 1.061	57.57 +0.356



Mittlere Zeit Greenw.	527) λ Bootis		531) θ Bootis		534) ρ Bootis		535) γ Bootis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	14 <sup>h</sup> 13 <sup>m</sup>	+46° 26'	14 <sup>h</sup> 22 <sup>m</sup>	+52° 11'	14 <sup>h</sup> 28 <sup>m</sup>	+30° 42'	14 <sup>h</sup> 28 <sup>m</sup>	+38° 38'
Jan. 0.8	26.020 <sup>390</sup>	20.00 <sup>228</sup>	32.831 <sup>417</sup>	72.82 <sup>234</sup>	29.591 <sup>330</sup>	27.32 <sup>239</sup>	57.386 <sup>350</sup>	33.85 <sup>242</sup>
10.8	26.410 <sup>403</sup>	17.72 <sup>176</sup>	33.248 <sup>437</sup>	70.48 <sup>179</sup>	29.921 <sup>342</sup>	24.93 <sup>200</sup>	57.736 <sup>364</sup>	31.43 <sup>197</sup>
20.8	26.813 <sup>405</sup>	15.96 <sup>119</sup>	33.685 <sup>442</sup>	68.69 <sup>120</sup>	30.263 <sup>343</sup>	22.93 <sup>155</sup>	58.100 <sup>366</sup>	29.46 <sup>145</sup>
30.7	27.218 <sup>392</sup>	14.77 <sup>58</sup>	34.127 <sup>432</sup>	67.49 <sup>57</sup>	30.606 <sup>333</sup>	21.38 <sup>105</sup>	58.466 <sup>359</sup>	28.01 <sup>90</sup>
Feb. 9.7	27.610 <sup>368</sup>	14.19 <sup>3</sup>	34.559 <sup>410</sup>	66.92 <sup>7</sup>	30.939 <sup>315</sup>	20.33 <sup>52</sup>	58.825 <sup>339</sup>	27.11 <sup>32</sup>
19.7	27.978 <sup>335</sup>	14.22 <sup>63</sup>	34.969 <sup>376</sup>	66.99 <sup>70</sup>	31.254 <sup>289</sup>	19.81 <sup>1</sup>	59.164 <sup>312</sup>	26.79 <sup>25</sup>
März 1.7	28.313 <sup>293</sup>	14.85 <sup>118</sup>	35.345 <sup>332</sup>	67.69 <sup>128</sup>	31.543 <sup>258</sup>	19.82 <sup>53</sup>	59.476 <sup>278</sup>	27.04 <sup>81</sup>
11.6	28.606 <sup>246</sup>	16.03 <sup>168</sup>	35.677 <sup>281</sup>	68.97 <sup>179</sup>	31.801 <sup>223</sup>	20.35 <sup>99</sup>	59.754 <sup>240</sup>	27.85 <sup>130</sup>
21.6	28.852 <sup>196</sup>	17.71 <sup>209</sup>	35.958 <sup>225</sup>	70.76 <sup>222</sup>	32.024 <sup>185</sup>	21.34 <sup>140</sup>	59.994 <sup>197</sup>	29.15 <sup>172</sup>
31.6	29.048 <sup>145</sup>	19.80 <sup>240</sup>	36.183 <sup>168</sup>	72.98 <sup>254</sup>	32.209 <sup>146</sup>	22.74 <sup>173</sup>	60.191 <sup>154</sup>	30.87 <sup>208</sup>
Apr. 10.6	29.193 <sup>94</sup>	22.20 <sup>261</sup>	36.351 <sup>109</sup>	75.52 <sup>277</sup>	32.355 <sup>108</sup>	24.47 <sup>199</sup>	60.345 <sup>110</sup>	32.95 <sup>231</sup>
20.5	29.287 <sup>44</sup>	24.81 <sup>273</sup>	36.460 <sup>53</sup>	78.29 <sup>288</sup>	32.463 <sup>71</sup>	26.46 <sup>215</sup>	60.455 <sup>69</sup>	35.26 <sup>248</sup>
30.5	29.331 <sup>3</sup>	27.54 <sup>272</sup>	36.513 <sup>3</sup>	81.17 <sup>288</sup>	32.534 <sup>35</sup>	28.61 <sup>223</sup>	60.524 <sup>27</sup>	37.74 <sup>253</sup>
Mai 10.5	29.328 <sup>48</sup>	30.26 <sup>264</sup>	36.510 <sup>54</sup>	84.05 <sup>279</sup>	32.569 <sup>0</sup>	30.84 <sup>223</sup>	60.551 <sup>12</sup>	40.27 <sup>250</sup>
20.4	29.280 <sup>87</sup>	32.90 <sup>247</sup>	36.456 <sup>102</sup>	86.84 <sup>261</sup>	32.569 <sup>32</sup>	33.07 <sup>215</sup>	60.539 <sup>48</sup>	42.77 <sup>239</sup>
30.4	29.193 <sup>124</sup>	35.37 <sup>222</sup>	36.354 <sup>145</sup>	89.45 <sup>234</sup>	32.537 <sup>62</sup>	35.22 <sup>200</sup>	60.491 <sup>82</sup>	45.16 <sup>220</sup>
Juni 9.4	29.069 <sup>156</sup>	37.59 <sup>190</sup>	36.209 <sup>183</sup>	91.79 <sup>200</sup>	32.475 <sup>90</sup>	37.22 <sup>179</sup>	60.409 <sup>112</sup>	47.36 <sup>194</sup>
19.4	28.913 <sup>184</sup>	39.49 <sup>154</sup>	36.026 <sup>216</sup>	93.79 <sup>163</sup>	32.385 <sup>115</sup>	39.01 <sup>153</sup>	60.297 <sup>140</sup>	49.30 <sup>163</sup>
29.3	28.729 <sup>206</sup>	41.03 <sup>113</sup>	35.810 <sup>242</sup>	95.42 <sup>119</sup>	32.270 <sup>137</sup>	40.54 <sup>124</sup>	60.157 <sup>163</sup>	50.93 <sup>129</sup>
Juli 9.3	28.523 <sup>223</sup>	42.16 <sup>71</sup>	35.568 <sup>264</sup>	96.61 <sup>73</sup>	32.133 <sup>155</sup>	41.78 <sup>92</sup>	59.994 <sup>182</sup>	52.22 <sup>91</sup>
19.3	28.300 <sup>235</sup>	42.87 <sup>25</sup>	35.304 <sup>277</sup>	97.34 <sup>26</sup>	31.978 <sup>170</sup>	42.70 <sup>56</sup>	59.812 <sup>198</sup>	53.13 <sup>50</sup>
29.3	28.065 <sup>241</sup>	43.12 <sup>20</sup>	35.027 <sup>286</sup>	97.60 <sup>23</sup>	31.808 <sup>179</sup>	43.26 <sup>20</sup>	59.614 <sup>206</sup>	53.63 <sup>9</sup>
Aug. 8.2	27.824 <sup>239</sup>	42.92 <sup>66</sup>	34.741 <sup>283</sup>	97.37 <sup>71</sup>	31.629 <sup>182</sup>	43.46 <sup>17</sup>	59.408 <sup>209</sup>	53.72 <sup>33</sup>
18.2	27.585 <sup>230</sup>	42.26 <sup>111</sup>	34.458 <sup>276</sup>	96.66 <sup>118</sup>	31.447 <sup>180</sup>	43.29 <sup>54</sup>	59.199 <sup>206</sup>	53.39 <sup>75</sup>
28.2	27.355 <sup>213</sup>	41.15 <sup>154</sup>	34.182 <sup>257</sup>	95.48 <sup>164</sup>	31.267 <sup>170</sup>	42.75 <sup>92</sup>	58.993 <sup>193</sup>	52.64 <sup>117</sup>
Sept. 7.1	27.142 <sup>188</sup>	39.61 <sup>195</sup>	33.925 <sup>230</sup>	93.84 <sup>207</sup>	31.097 <sup>152</sup>	41.83 <sup>128</sup>	58.800 <sup>174</sup>	51.47 <sup>156</sup>
17.1	26.954 <sup>154</sup>	37.66 <sup>233</sup>	33.695 <sup>193</sup>	91.77 <sup>246</sup>	30.945 <sup>126</sup>	40.55 <sup>163</sup>	58.626 <sup>146</sup>	49.91 <sup>195</sup>
27.1	26.800 <sup>112</sup>	35.33 <sup>268</sup>	33.502 <sup>148</sup>	89.31 <sup>282</sup>	30.819 <sup>93</sup>	38.92 <sup>197</sup>	58.480 <sup>110</sup>	47.96 <sup>229</sup>
Okt. 7.1	26.688 <sup>62</sup>	32.65 <sup>297</sup>	33.354 <sup>93</sup>	86.49 <sup>313</sup>	30.726 <sup>52</sup>	36.95 <sup>228</sup>	58.370 <sup>66</sup>	45.67 <sup>261</sup>
17.0	26.626 <sup>5</sup>	29.68 <sup>321</sup>	33.261 <sup>32</sup>	83.36 <sup>338</sup>	30.674 <sup>5</sup>	34.67 <sup>254</sup>	58.304 <sup>15</sup>	43.06 <sup>288</sup>
27.0	26.621 <sup>55</sup>	26.47 <sup>339</sup>	33.229 <sup>35</sup>	79.98 <sup>354</sup>	30.669 <sup>46</sup>	32.13 <sup>278</sup>	58.289 <sup>39</sup>	40.18 <sup>310</sup>
Nov. 6.0	26.676 <sup>119</sup>	23.08 <sup>348</sup>	33.264 <sup>105</sup>	76.44 <sup>365</sup>	30.715 <sup>100</sup>	29.35 <sup>294</sup>	58.328 <sup>97</sup>	37.08 <sup>325</sup>
16.0	26.795 <sup>182</sup>	19.60 <sup>350</sup>	33.369 <sup>176</sup>	72.79 <sup>365</sup>	30.815 <sup>154</sup>	26.41 <sup>305</sup>	58.425 <sup>156</sup>	33.83 <sup>332</sup>
25.9	26.977 <sup>243</sup>	16.10 <sup>342</sup>	33.545 <sup>243</sup>	69.14 <sup>355</sup>	30.969 <sup>205</sup>	23.36 <sup>308</sup>	58.581 <sup>210</sup>	30.51 <sup>330</sup>
Dez. 5.9	27.220 <sup>296</sup>	12.68 <sup>333</sup>	33.788 <sup>306</sup>	65.59 <sup>336</sup>	31.174 <sup>251</sup>	20.28 <sup>301</sup>	58.791 <sup>262</sup>	27.21 <sup>319</sup>
15.9	27.516 <sup>342</sup>	9.45 <sup>296</sup>	34.094 <sup>359</sup>	62.23 <sup>305</sup>	31.425 <sup>289</sup>	17.27 <sup>286</sup>	59.053 <sup>303</sup>	24.02 <sup>298</sup>
25.8	27.858 <sup>377</sup>	6.49 <sup>257</sup>	34.453 <sup>400</sup>	59.18 <sup>265</sup>	31.714 <sup>318</sup>	14.41 <sup>260</sup>	59.356 <sup>337</sup>	21.04 <sup>268</sup>
35.8	28.235	3.92	34.853	56.53	32.032	11.81	59.693	18.36
Mittl. Ort sec δ, tg δ	27.466 1.451	28.63 +1.052	34.562 1.632	81.98 +1.289	30.713 1.163	31.41 +0.594	58.687 1.280	39.85 +0.800

Mittlere Zeit Greenw.	537) $\eta$ Centauri		538) $\alpha$ Centauri *)		543) $\zeta$ Bootis med.		542) $\alpha$ Apodis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	$14^h 30^m$	$-41^\circ 48'$	$14^h 34^m$	$-60^\circ 30'$	$14^h 37^m$	$+14^\circ 3'$	$14^h 38^m$	$-78^\circ 42'$
<b>1923</b>								
Jan. 0.8	36.071 <sub>396</sub>	56.44 <sub>81</sub>	21.44 <sub>55</sub>	41.10 <sub>24</sub>	27.354 <sub>305</sub>	28.97 <sub>224</sub>	11.81 <sub>126</sub>	47.46 <sub>46</sub>
10.8	36.467 <sub>405</sub>	57.25 <sub>113</sub>	21.99 <sub>56</sub>	41.34 <sub>71</sub>	27.659 <sub>316</sub>	26.73 <sub>202</sub>	13.07 <sub>130</sub>	47.00 <sub>11</sub>
20.8	36.872 <sub>401</sub>	58.38 <sub>144</sub>	22.55 <sub>56</sub>	42.05 <sub>117</sub>	27.975 <sub>316</sub>	24.71 <sub>171</sub>	14.37 <sub>132</sub>	47.11 <sub>67</sub>
30.8	37.273 <sub>388</sub>	59.82 <sub>167</sub>	23.11 <sub>54</sub>	43.22 <sub>158</sub>	28.291 <sub>308</sub>	23.00 <sub>137</sub>	15.69 <sub>129</sub>	47.78 <sub>120</sub>
Feb. 9.7	37.661 <sub>365</sub>	61.49 <sub>187</sub>	23.65 <sub>51</sub>	44.80 <sub>192</sub>	28.599 <sub>292</sub>	21.63 <sub>97</sub>	16.98 <sub>124</sub>	48.98 <sub>169</sub>
19.7	38.026 <sub>337</sub>	63.36 <sub>200</sub>	24.16 <sub>47</sub>	46.72 <sub>222</sub>	28.891 <sub>269</sub>	20.66 <sub>55</sub>	18.22 <sub>116</sub>	50.67 <sub>211</sub>
März 1.7	38.363 <sub>304</sub>	65.36 <sub>208</sub>	24.63 <sub>42</sub>	48.94 <sub>246</sub>	29.160 <sub>243</sub>	20.11 <sub>15</sub>	19.38 <sub>106</sub>	52.78 <sub>250</sub>
11.6	38.667 <sub>268</sub>	67.44 <sub>211</sub>	25.05 <sub>37</sub>	51.40 <sub>263</sub>	29.403 <sub>213</sub>	19.96 <sub>24</sub>	20.44 <sub>93</sub>	55.28 <sub>280</sub>
21.6	38.935 <sub>231</sub>	69.55 <sub>212</sub>	25.42 <sub>30</sub>	54.03 <sub>274</sub>	29.616 <sub>181</sub>	20.20 <sub>61</sub>	21.37 <sub>80</sub>	58.08 <sub>305</sub>
31.6	39.166 <sub>192</sub>	71.67 <sub>207</sub>	25.72 <sub>25</sub>	56.77 <sub>279</sub>	29.797 <sub>149</sub>	20.81 <sub>91</sub>	22.17 <sub>66</sub>	61.13 <sub>321</sub>
Apr. 10.6	39.358 <sub>153</sub>	73.74 <sub>200</sub>	25.97 <sub>20</sub>	59.56 <sub>280</sub>	29.946 <sub>117</sub>	21.72 <sub>115</sub>	22.83 <sub>49</sub>	64.34 <sub>333</sub>
20.5	39.511 <sub>114</sub>	75.74 <sub>189</sub>	26.17 <sub>12</sub>	62.36 <sub>274</sub>	30.063 <sub>86</sub>	22.87 <sub>135</sub>	23.32 <sub>34</sub>	67.67 <sub>335</sub>
30.5	39.625 <sub>76</sub>	77.63 <sub>176</sub>	26.29 <sub>7</sub>	65.10 <sub>262</sub>	30.149 <sub>56</sub>	24.22 <sub>147</sub>	23.66 <sub>17</sub>	71.02 <sub>332</sub>
Mai 10.5	39.701 <sub>38</sub>	79.39 <sub>161</sub>	26.36 <sub>0</sub>	67.72 <sub>248</sub>	30.205 <sub>26</sub>	25.69 <sub>153</sub>	23.83 <sub>0</sub>	74.34 <sub>321</sub>
20.5	39.739 <sub>1</sub>	81.00 <sub>142</sub>	26.36 <sub>5</sub>	70.20 <sub>226</sub>	30.231 <sub>2</sub>	27.22 <sub>153</sub>	23.83 <sub>17</sub>	77.55 <sub>304</sub>
30.4	39.738 <sub>38</sub>	82.42 <sub>121</sub>	26.31 <sub>12</sub>	72.46 <sub>201</sub>	30.229 <sub>29</sub>	28.75 <sub>148</sub>	23.66 <sub>32</sub>	80.59 <sub>278</sub>
Juni 9.4	39.700 <sub>74</sub>	83.63 <sub>98</sub>	26.19 <sub>17</sub>	74.47 <sub>170</sub>	30.200 <sub>55</sub>	30.23 <sub>138</sub>	23.34 <sub>49</sub>	83.37 <sub>247</sub>
19.4	39.626 <sub>108</sub>	84.61 <sub>72</sub>	26.02 <sub>22</sub>	76.17 <sub>136</sub>	30.145 <sub>80</sub>	31.61 <sub>124</sub>	22.85 <sub>62</sub>	85.84 <sub>209</sub>
29.3	39.518 <sub>139</sub>	85.33 <sub>45</sub>	25.80 <sub>27</sub>	77.53 <sub>98</sub>	30.065 <sub>101</sub>	32.85 <sub>108</sub>	22.23 <sub>75</sub>	87.93 <sub>167</sub>
Juli 9.3	39.379 <sub>167</sub>	85.78 <sub>15</sub>	25.53 <sub>31</sub>	78.51 <sub>57</sub>	29.964 <sub>120</sub>	33.93 <sub>88</sub>	21.48 <sub>84</sub>	89.60 <sub>118</sub>
19.3	39.212 <sub>188</sub>	85.93 <sub>14</sub>	25.22 <sub>34</sub>	79.08 <sub>14</sub>	29.844 <sub>137</sub>	34.81 <sub>67</sub>	20.64 <sub>93</sub>	90.78 <sub>68</sub>
29.3	39.024 <sub>203</sub>	85.79 <sub>44</sub>	24.88 <sub>35</sub>	79.22 <sub>30</sub>	29.707 <sub>148</sub>	35.48 <sub>43</sub>	19.71 <sub>97</sub>	91.46 <sub>13</sub>
Aug. 8.2	38.821 <sub>210</sub>	85.35 <sub>73</sub>	24.53 <sub>36</sub>	78.92 <sub>73</sub>	29.559 <sub>154</sub>	35.91 <sub>19</sub>	18.74 <sub>99</sub>	91.59 <sub>40</sub>
18.2	38.611 <sub>208</sub>	84.62 <sub>99</sub>	24.17 <sub>36</sub>	78.19 <sub>114</sub>	29.405 <sub>154</sub>	36.10 <sub>6</sub>	17.75 <sub>96</sub>	91.19 <sub>95</sub>
28.2	38.403 <sub>195</sub>	83.63 <sub>124</sub>	23.81 <sub>33</sub>	77.05 <sub>152</sub>	29.251 <sub>148</sub>	36.04 <sub>33</sub>	16.79 <sub>91</sub>	90.24 <sub>146</sub>
Sept. 7.2	38.208 <sub>173</sub>	82.39 <sub>142</sub>	23.48 <sub>29</sub>	75.53 <sub>186</sub>	29.103 <sub>133</sub>	35.71 <sub>60</sub>	15.88 <sub>80</sub>	88.78 <sub>192</sub>
17.1	38.035 <sub>138</sub>	80.97 <sub>155</sub>	23.19 <sub>24</sub>	73.67 <sub>212</sub>	28.970 <sub>110</sub>	35.11 <sub>88</sub>	15.08 <sub>67</sub>	86.86 <sub>232</sub>
27.1	37.897 <sub>95</sub>	79.42 <sub>163</sub>	22.95 <sub>17</sub>	71.55 <sub>231</sub>	28.860 <sub>81</sub>	34.23 <sub>115</sub>	14.41 <sub>51</sub>	84.54 <sub>264</sub>
Okt. 7.1	37.802 <sub>41</sub>	77.79 <sub>163</sub>	22.78 <sub>8</sub>	69.24 <sub>241</sub>	28.779 <sub>44</sub>	33.08 <sub>143</sub>	13.90 <sub>31</sub>	81.90 <sub>286</sub>
17.0	37.761 <sub>18</sub>	76.16 <sub>154</sub>	22.70 <sub>0</sub>	66.83 <sub>240</sub>	28.735 <sub>0</sub>	31.65 <sub>169</sub>	13.59 <sub>10</sub>	79.04 <sub>297</sub>
27.0	37.779 <sub>81</sub>	74.62 <sub>139</sub>	22.70 <sub>9</sub>	64.43 <sub>231</sub>	28.735 <sub>47</sub>	29.96 <sub>193</sub>	13.49 <sub>12</sub>	76.07 <sub>295</sub>
Nov. 6.0	37.860 <sub>147</sub>	73.23 <sub>116</sub>	22.79 <sub>19</sub>	62.12 <sub>210</sub>	28.782 <sub>96</sub>	28.03 <sub>215</sub>	13.61 <sub>36</sub>	73.12 <sub>284</sub>
16.0	38.007 <sub>210</sub>	72.07 <sub>87</sub>	22.98 <sub>29</sub>	60.02 <sub>181</sub>	28.878 <sub>147</sub>	25.88 <sub>232</sub>	13.97 <sub>57</sub>	70.28 <sub>259</sub>
25.9	38.217 <sub>268</sub>	71.20 <sub>53</sub>	23.27 <sub>36</sub>	58.21 <sub>144</sub>	29.025 <sub>193</sub>	23.56 <sub>244</sub>	14.54 <sub>77</sub>	67.69 <sub>225</sub>
Dec. 5.9	38.485 <sub>318</sub>	70.67 <sub>16</sub>	23.63 <sub>44</sub>	56.77 <sub>101</sub>	29.218 <sub>234</sub>	21.12 <sub>249</sub>	15.31 <sub>95</sub>	65.44 <sub>182</sub>
15.9	38.803 <sub>357</sub>	70.51 <sub>22</sub>	24.07 <sub>49</sub>	55.76 <sub>53</sub>	29.452 <sub>270</sub>	18.63 <sub>247</sub>	16.26 <sub>109</sub>	63.62 <sub>133</sub>
25.9	39.160 <sub>385</sub>	70.73 <sub>61</sub>	24.56 <sub>53</sub>	55.23 <sub>5</sub>	29.722 <sub>295</sub>	16.16 <sub>237</sub>	17.35 <sub>120</sub>	62.29 <sub>78</sub>
35.8	39.545	71.34	25.09	55.18	30.017	13.79	18.55	61.51
Mittl. Ort sec <sup>0</sup> , tg <sup>0</sup>	36.581 1.342	73.75 -0.895	21.94 2.032	62.53 -1.769	28.263 1.031	28.00 +0.250	13.01 5.112	71.08 -5.014

\*) Ort des hellen Sterns; die jährliche Parallaxe (0.75) ist bereits berücksichtigt

Mittlere Zeit Greenw.	545) $\mu$ Virginis		547) $\iota$ Virginis		548) $\alpha$ Librae		549) Gr. 2164	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	14 <sup>h</sup> 38 <sup>m</sup>	-5° 19'	14 <sup>h</sup> 42 <sup>m</sup>	+2° 12'	14 <sup>h</sup> 46 <sup>m</sup>	-15° 43'	14 <sup>h</sup> 49 <sup>m</sup>	+59° 35'
Jan. 0.8	59.252 <sup>307</sup>	20.67 <sup>184</sup>	20.454 <sup>302</sup>	63.86 <sup>200</sup>	36.187 <sup>315</sup>	11.57 <sup>151</sup>	26.658 <sup>454</sup>	74.44 <sup>252</sup>
10.8	59.559 <sup>316</sup>	22.51 <sup>182</sup>	20.756 <sup>311</sup>	61.86 <sup>191</sup>	36.502 <sup>324</sup>	13.08 <sup>159</sup>	27.112 <sup>490</sup>	71.92 <sup>198</sup>
20.8	59.875 <sup>315</sup>	24.33 <sup>171</sup>	21.067 <sup>312</sup>	59.95 <sup>173</sup>	36.826 <sup>325</sup>	14.67 <sup>161</sup>	27.602 <sup>507</sup>	69.94 <sup>138</sup>
30.8	60.190 <sup>305</sup>	26.04 <sup>157</sup>	21.379 <sup>303</sup>	58.22 <sup>149</sup>	37.151 <sup>316</sup>	16.28 <sup>157</sup>	28.109 <sup>509</sup>	68.56 <sup>71</sup>
Feb. 9.7	60.495 <sup>289</sup>	27.61 <sup>137</sup>	21.682 <sup>288</sup>	56.73 <sup>122</sup>	37.467 <sup>301</sup>	17.85 <sup>150</sup>	28.618 <sup>493</sup>	67.85 <sup>5</sup>
19.7	60.784 <sup>268</sup>	28.98 <sup>113</sup>	21.970 <sup>267</sup>	55.51 <sup>92</sup>	37.768 <sup>280</sup>	19.35 <sup>136</sup>	29.111 <sup>463</sup>	67.80 <sup>61</sup>
März 1.7	61.052 <sup>241</sup>	30.11 <sup>88</sup>	22.237 <sup>241</sup>	54.59 <sup>59</sup>	38.048 <sup>254</sup>	20.71 <sup>122</sup>	29.574 <sup>420</sup>	68.41 <sup>123</sup>
11.6	61.293 <sup>213</sup>	30.99 <sup>63</sup>	22.478 <sup>214</sup>	54.00 <sup>29</sup>	38.302 <sup>226</sup>	21.93 <sup>104</sup>	29.994 <sup>366</sup>	69.64 <sup>178</sup>
21.6	61.506 <sup>184</sup>	31.62 <sup>37</sup>	22.692 <sup>184</sup>	53.71 <sup>2</sup>	38.528 <sup>198</sup>	22.97 <sup>86</sup>	30.360 <sup>303</sup>	71.42 <sup>227</sup>
31.6	61.690 <sup>155</sup>	31.99 <sup>14</sup>	22.876 <sup>154</sup>	53.73 <sup>29</sup>	38.726 <sup>168</sup>	23.83 <sup>68</sup>	30.663 <sup>236</sup>	73.69 <sup>264</sup>
Apr. 10.6	61.845 <sup>125</sup>	32.13 <sup>6</sup>	23.030 <sup>124</sup>	54.02 <sup>51</sup>	38.894 <sup>138</sup>	24.51 <sup>51</sup>	30.899 <sup>166</sup>	76.33 <sup>290</sup>
20.5	61.970 <sup>95</sup>	32.07 <sup>24</sup>	23.154 <sup>95</sup>	54.53 <sup>69</sup>	39.032 <sup>110</sup>	25.02 <sup>37</sup>	31.065 <sup>95</sup>	79.23 <sup>306</sup>
30.5	62.065 <sup>68</sup>	31.83 <sup>38</sup>	23.249 <sup>67</sup>	55.22 <sup>83</sup>	39.142 <sup>79</sup>	25.39 <sup>22</sup>	31.160 <sup>25</sup>	82.29 <sup>311</sup>
Mai 10.5	62.133 <sup>39</sup>	31.45 <sup>48</sup>	23.316 <sup>38</sup>	56.05 <sup>92</sup>	39.221 <sup>51</sup>	25.61 <sup>10</sup>	31.185 <sup>42</sup>	85.40 <sup>303</sup>
20.5	62.172 <sup>12</sup>	30.97 <sup>57</sup>	23.354 <sup>11</sup>	56.97 <sup>98</sup>	39.272 <sup>22</sup>	25.71 <sup>1</sup>	31.143 <sup>105</sup>	88.43 <sup>288</sup>
30.4	62.184 <sup>14</sup>	30.40 <sup>61</sup>	23.365 <sup>16</sup>	57.95 <sup>98</sup>	39.294 <sup>7</sup>	25.70 <sup>10</sup>	31.038 <sup>164</sup>	91.31 <sup>262</sup>
Juni 9.4	62.170 <sup>41</sup>	29.79 <sup>64</sup>	23.349 <sup>42</sup>	58.93 <sup>96</sup>	39.287 <sup>35</sup>	25.60 <sup>19</sup>	30.874 <sup>217</sup>	93.93 <sup>230</sup>
19.4	62.129 <sup>66</sup>	29.15 <sup>64</sup>	23.307 <sup>67</sup>	59.89 <sup>91</sup>	39.252 <sup>62</sup>	25.41 <sup>26</sup>	30.657 <sup>263</sup>	96.23 <sup>191</sup>
29.3	62.063 <sup>88</sup>	28.51 <sup>64</sup>	23.240 <sup>89</sup>	60.80 <sup>84</sup>	39.190 <sup>87</sup>	25.15 <sup>33</sup>	30.394 <sup>303</sup>	98.14 <sup>147</sup>
Juli 9.3	61.975 <sup>108</sup>	27.87 <sup>61</sup>	23.151 <sup>110</sup>	61.64 <sup>75</sup>	39.103 <sup>110</sup>	24.82 <sup>39</sup>	30.091 <sup>334</sup>	99.61 <sup>100</sup>
19.3	61.867 <sup>126</sup>	27.26 <sup>56</sup>	23.041 <sup>127</sup>	62.39 <sup>63</sup>	38.993 <sup>130</sup>	24.43 <sup>45</sup>	29.757 <sup>358</sup>	100.61 <sup>51</sup>
29.3	61.741 <sup>139</sup>	26.70 <sup>52</sup>	22.914 <sup>140</sup>	63.02 <sup>51</sup>	38.863 <sup>144</sup>	23.98 <sup>50</sup>	29.399 <sup>373</sup>	101.12 <sup>1</sup>
Aug. 8.2	61.602 <sup>145</sup>	26.18 <sup>45</sup>	22.774 <sup>147</sup>	63.53 <sup>38</sup>	38.719 <sup>153</sup>	23.48 <sup>53</sup>	29.026 <sup>372</sup>	101.11 <sup>52</sup>
18.2	61.457 <sup>147</sup>	25.73 <sup>37</sup>	22.627 <sup>149</sup>	63.91 <sup>22</sup>	38.566 <sup>155</sup>	22.95 <sup>56</sup>	28.649 <sup>372</sup>	100.59 <sup>102</sup>
28.2	61.310 <sup>140</sup>	25.36 <sup>27</sup>	22.478 <sup>142</sup>	64.13 <sup>5</sup>	38.411 <sup>150</sup>	22.39 <sup>55</sup>	28.277 <sup>356</sup>	99.57 <sup>151</sup>
Sept. 7.2	61.170 <sup>127</sup>	25.09 <sup>15</sup>	22.336 <sup>130</sup>	64.18 <sup>14</sup>	38.261 <sup>136</sup>	21.84 <sup>52</sup>	27.921 <sup>329</sup>	98.06 <sup>198</sup>
17.1	61.043 <sup>103</sup>	24.94 <sup>0</sup>	22.206 <sup>108</sup>	64.04 <sup>33</sup>	38.125 <sup>113</sup>	21.32 <sup>46</sup>	27.592 <sup>290</sup>	96.08 <sup>241</sup>
27.1	60.940 <sup>74</sup>	24.94 <sup>16</sup>	22.098 <sup>78</sup>	63.71 <sup>54</sup>	38.012 <sup>82</sup>	20.86 <sup>37</sup>	27.302 <sup>240</sup>	93.67 <sup>280</sup>
Okt. 7.1	60.866 <sup>36</sup>	25.10 <sup>37</sup>	22.020 <sup>41</sup>	63.17 <sup>77</sup>	37.930 <sup>43</sup>	20.49 <sup>23</sup>	27.062 <sup>180</sup>	90.87 <sup>314</sup>
17.0	60.830 <sup>8</sup>	25.47 <sup>57</sup>	21.979 <sup>0</sup>	62.40 <sup>101</sup>	37.887 <sup>2</sup>	20.26 <sup>5</sup>	26.882 <sup>109</sup>	87.73 <sup>341</sup>
27.0	60.838 <sup>55</sup>	26.04 <sup>80</sup>	21.979 <sup>49</sup>	61.39 <sup>125</sup>	37.889 <sup>51</sup>	20.21 <sup>14</sup>	26.773 <sup>32</sup>	84.32 <sup>363</sup>
Nov. 6.0	60.893 <sup>105</sup>	26.84 <sup>105</sup>	22.028 <sup>97</sup>	60.14 <sup>148</sup>	37.940 <sup>104</sup>	20.35 <sup>37</sup>	26.741 <sup>51</sup>	80.69 <sup>375</sup>
16.0	60.998 <sup>153</sup>	27.89 <sup>126</sup>	22.125 <sup>146</sup>	58.66 <sup>168</sup>	38.044 <sup>154</sup>	20.72 <sup>62</sup>	26.792 <sup>135</sup>	76.94 <sup>377</sup>
25.9	61.151 <sup>200</sup>	29.15 <sup>148</sup>	22.271 <sup>192</sup>	56.98 <sup>186</sup>	38.198 <sup>202</sup>	21.34 <sup>86</sup>	26.927 <sup>219</sup>	73.17 <sup>371</sup>
Dec. 5.9	61.351 <sup>241</sup>	30.63 <sup>165</sup>	22.463 <sup>233</sup>	55.12 <sup>199</sup>	38.400 <sup>245</sup>	22.20 <sup>110</sup>	27.146 <sup>299</sup>	69.46 <sup>353</sup>
15.9	61.592 <sup>274</sup>	32.28 <sup>178</sup>	22.696 <sup>266</sup>	53.13 <sup>206</sup>	38.645 <sup>279</sup>	23.30 <sup>129</sup>	27.445 <sup>369</sup>	65.93 <sup>323</sup>
25.9	61.866 <sup>297</sup>	34.06 <sup>185</sup>	22.962 <sup>292</sup>	51.07 <sup>207</sup>	38.924 <sup>306</sup>	24.59 <sup>146</sup>	27.814 <sup>427</sup>	62.70 <sup>285</sup>
35.8	62.163	35.91	23.254	49.00	39.230	26.05	28.241	59.85
Mittl. Ort	59.985	27.57	21.264	59.18	36.897	21.78	28.996	82.90
sec $\delta$ , tg $\delta$	1.004	-0.093	1.001	+0.039	1.039	-0.281	1.977	+1.705



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	550) $\beta$ Ursae min.		551) P. XIV 221		552) $\beta$ Lupi		555) $\beta$ Bootis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	14 <sup>h</sup> 50 <sup>m</sup>	+74° 27'	14 <sup>h</sup> 52 <sup>m</sup>	+14° 45'	14 <sup>h</sup> 53 <sup>m</sup>	-42° 49'	14 <sup>h</sup> 59 <sup>m</sup>	+40° 41'
Jan. 0.8	50.22 <sub>76</sub>	62.95 <sub>236</sub>	34.128 <sub>299</sub>	24.95 <sub>228</sub>	28.058 <sub>393</sub>	12.18 <sub>53</sub>	1.229 <sub>336</sub>	31.90 <sub>263</sub>
10.8	50.98 <sub>83</sub>	60.59 <sub>179</sub>	34.427 <sub>311</sub>	22.67 <sub>205</sub>	28.451 <sub>406</sub>	12.71 <sub>87</sub>	1.565 <sub>359</sub>	29.27 <sub>221</sub>
20.8	51.81 <sub>88</sub>	58.80 <sub>114</sub>	34.738 <sub>315</sub>	20.62 <sub>175</sub>	28.857 <sub>408</sub>	13.58 <sub>116</sub>	1.924 <sub>368</sub>	27.06 <sub>170</sub>
30.8	52.69 <sub>89</sub>	57.66 <sub>47</sub>	35.053 <sub>310</sub>	18.87 <sub>141</sub>	29.265 <sub>400</sub>	14.74 <sub>143</sub>	2.292 <sub>368</sub>	25.36 <sub>113</sub>
Feb. 9.7	53.58 <sub>87</sub>	57.19 <sub>22</sub>	35.363 <sub>296</sub>	17.46 <sub>100</sub>	29.665 <sub>383</sub>	16.17 <sub>163</sub>	2.660 <sub>355</sub>	24.23 <sub>54</sub>
19.7	54.45 <sub>83</sub>	57.41 <sub>87</sub>	35.659 <sub>277</sub>	16.46 <sub>58</sub>	30.048 <sub>358</sub>	17.80 <sub>179</sub>	3.015 <sub>335</sub>	23.69 <sub>6</sub>
März 1.7	55.28 <sub>74</sub>	58.28 <sub>150</sub>	35.936 <sub>251</sub>	15.88 <sub>16</sub>	30.406 <sub>319</sub>	19.59 <sub>190</sub>	3.350 <sub>306</sub>	23.75 <sub>64</sub>
11.7	56.02 <sub>65</sub>	59.78 <sub>204</sub>	36.187 <sub>224</sub>	15.72 <sub>25</sub>	30.735 <sub>297</sub>	21.49 <sub>196</sub>	3.656 <sub>271</sub>	24.39 <sub>118</sub>
21.6	56.67 <sub>53</sub>	61.82 <sub>250</sub>	36.411 <sub>194</sub>	15.97 <sub>61</sub>	31.032 <sub>260</sub>	23.45 <sub>200</sub>	3.927 <sub>233</sub>	25.57 <sub>165</sub>
31.6	57.20 <sub>40</sub>	64.32 <sub>285</sub>	36.605 <sub>163</sub>	16.58 <sub>94</sub>	31.292 <sub>225</sub>	25.45 <sub>198</sub>	4.160 <sub>190</sub>	27.22 <sub>205</sub>
Apr. 10.6	57.60 <sub>26</sub>	67.17 <sub>309</sub>	36.768 <sub>132</sub>	17.52 <sub>120</sub>	31.517 <sub>185</sub>	27.43 <sub>195</sub>	4.350 <sub>148</sub>	29.27 <sub>235</sub>
20.5	57.86 <sub>12</sub>	70.26 <sub>320</sub>	36.900 <sub>100</sub>	18.72 <sub>141</sub>	31.702 <sub>147</sub>	29.38 <sub>187</sub>	4.498 <sub>104</sub>	31.62 <sub>255</sub>
30.5	57.98 <sub>2</sub>	73.46 <sub>321</sub>	37.000 <sub>70</sub>	20.13 <sub>153</sub>	31.849 <sub>108</sub>	31.25 <sub>178</sub>	4.602 <sub>61</sub>	34.17 <sub>266</sub>
Mai 10.5	57.96 <sub>16</sub>	76.67 <sub>310</sub>	37.070 <sub>40</sub>	21.66 <sub>161</sub>	31.957 <sub>68</sub>	33.03 <sub>166</sub>	4.663 <sub>19</sub>	36.83 <sub>267</sub>
20.5	57.80 <sub>29</sub>	79.77 <sub>290</sub>	37.110 <sub>10</sub>	23.27 <sub>161</sub>	32.025 <sub>28</sub>	34.69 <sub>150</sub>	4.682 <sub>21</sub>	39.50 <sub>259</sub>
30.4	57.51 <sub>40</sub>	82.67 <sub>259</sub>	37.120 <sub>18</sub>	24.88 <sub>156</sub>	32.053 <sub>13</sub>	36.19 <sub>133</sub>	4.661 <sub>60</sub>	42.09 <sub>243</sub>
Juni 9.4	57.11 <sub>50</sub>	85.26 <sub>224</sub>	37.102 <sub>46</sub>	26.44 <sub>147</sub>	32.040 <sub>52</sub>	37.52 <sub>112</sub>	4.601 <sub>95</sub>	44.52 <sub>220</sub>
19.4	56.61 <sub>60</sub>	87.50 <sub>180</sub>	37.056 <sub>72</sub>	27.91 <sub>133</sub>	31.988 <sub>91</sub>	38.64 <sub>89</sub>	4.506 <sub>129</sub>	46.72 <sub>190</sub>
29.4	56.01 <sub>66</sub>	89.30 <sub>133</sub>	36.984 <sub>96</sub>	29.24 <sub>115</sub>	31.897 <sub>126</sub>	39.53 <sub>63</sub>	4.377 <sub>159</sub>	48.62 <sub>157</sub>
Juli 9.3	55.35 <sub>72</sub>	90.63 <sub>82</sub>	36.888 <sub>118</sub>	30.39 <sub>96</sub>	31.771 <sub>159</sub>	40.16 <sub>36</sub>	4.218 <sub>184</sub>	50.19 <sub>119</sub>
19.3	54.63 <sub>76</sub>	91.45 <sub>30</sub>	36.770 <sub>136</sub>	31.35 <sub>73</sub>	31.612 <sub>185</sub>	40.52 <sub>6</sub>	4.034 <sub>205</sub>	51.38 <sub>78</sub>
29.3	53.87 <sub>77</sub>	91.75 <sub>24</sub>	36.634 <sub>150</sub>	32.08 <sub>50</sub>	31.427 <sub>206</sub>	40.58 <sub>22</sub>	3.829 <sub>220</sub>	52.16 <sub>35</sub>
Aug. 8.2	53.10 <sub>79</sub>	91.51 <sub>76</sub>	36.484 <sub>159</sub>	32.58 <sub>24</sub>	31.221 <sub>217</sub>	40.36 <sub>52</sub>	3.609 <sub>229</sub>	52.51 <sub>9</sub>
18.2	52.31 <sub>76</sub>	90.75 <sub>129</sub>	36.325 <sub>160</sub>	32.82 <sub>2</sub>	31.004 <sub>221</sub>	39.84 <sub>81</sub>	3.380 <sub>230</sub>	52.42 <sub>53</sub>
28.2	51.55 <sub>72</sub>	89.46 <sub>177</sub>	36.165 <sub>157</sub>	32.80 <sub>29</sub>	30.783 <sub>212</sub>	39.03 <sub>106</sub>	3.150 <sub>223</sub>	51.89 <sub>96</sub>
Sept. 7.2	50.83 <sub>68</sub>	87.69 <sub>224</sub>	36.008 <sub>144</sub>	32.51 <sub>58</sub>	30.571 <sub>194</sub>	37.97 <sub>128</sub>	2.927 <sub>208</sub>	50.93 <sub>139</sub>
17.1	50.15 <sub>60</sub>	85.45 <sub>266</sub>	35.864 <sub>123</sub>	31.93 <sub>85</sub>	30.377 <sub>163</sub>	36.69 <sub>145</sub>	2.719 <sub>184</sub>	49.54 <sub>180</sub>
27.1	49.55 <sub>50</sub>	82.79 <sub>303</sub>	35.741 <sub>95</sub>	31.08 <sub>114</sub>	30.214 <sub>122</sub>	35.24 <sub>157</sub>	2.535 <sub>150</sub>	47.74 <sub>219</sub>
Okt. 7.1	49.05 <sub>40</sub>	79.76 <sub>335</sub>	35.646 <sub>59</sub>	29.94 <sub>142</sub>	30.092 <sub>70</sub>	33.67 <sub>160</sub>	2.385 <sub>108</sub>	45.55 <sub>253</sub>
17.1	48.65 <sub>27</sub>	76.41 <sub>359</sub>	35.587 <sub>16</sub>	28.52 <sub>169</sub>	30.022 <sub>12</sub>	32.07 <sub>157</sub>	2.277 <sub>59</sub>	43.02 <sub>284</sub>
27.0	48.38 <sub>14</sub>	72.82 <sub>376</sub>	35.571 <sub>30</sub>	26.83 <sub>194</sub>	30.010 <sub>53</sub>	30.50 <sub>147</sub>	2.218 <sub>3</sub>	40.18 <sub>310</sub>
Nov. 6.0	48.24 <sub>1</sub>	69.06 <sub>384</sub>	35.601 <sub>81</sub>	24.89 <sub>216</sub>	30.063 <sub>120</sub>	29.03 <sub>127</sub>	2.215 <sub>55</sub>	37.08 <sub>328</sub>
16.0	48.25 <sub>16</sub>	65.22 <sub>383</sub>	35.682 <sub>130</sub>	22.73 <sub>233</sub>	30.183 <sub>185</sub>	27.76 <sub>104</sub>	2.270 <sub>117</sub>	33.80 <sub>340</sub>
25.9	48.41 <sub>31</sub>	61.39 <sub>371</sub>	35.812 <sub>179</sub>	20.40 <sub>247</sub>	30.368 <sub>246</sub>	26.72 <sub>73</sub>	2.387 <sub>175</sub>	30.40 <sub>341</sub>
Dez. 5.9	48.72 <sub>46</sub>	57.68 <sub>347</sub>	35.991 <sub>222</sub>	17.93 <sub>252</sub>	30.614 <sub>301</sub>	25.99 <sub>39</sub>	2.562 <sub>231</sub>	26.99 <sub>334</sub>
15.9	49.18 <sub>59</sub>	54.21 <sub>314</sub>	36.213 <sub>258</sub>	15.41 <sub>250</sub>	30.915 <sub>345</sub>	25.60 <sub>3</sub>	2.793 <sub>279</sub>	23.65 <sub>317</sub>
25.9	49.77 <sub>70</sub>	51.07 <sub>271</sub>	36.471 <sub>288</sub>	12.91 <sub>241</sub>	31.260 <sub>378</sub>	25.57 <sub>34</sub>	3.072 <sub>318</sub>	20.48 <sub>288</sub>
35.8	50.47	48.36	36.759	10.50	31.638	25.91	3.390	17.60
Mittl. Ort sec $\delta$ , lg $\delta$	54.76 3.735	72.68 +3.599	35.115 1.034	23.55 +0.263	28.766 1.363	29.72 -0.927	2.733 1.319	36.52 +0.860

Mittlere Zeit Greenw.	556) $\gamma$ Scorpii		557) $\psi$ Bootis		558) $\zeta$ Lupi		560) $\gamma$ Triang. austr.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$14^{\text{h}} 59^{\text{m}}$	$-24^{\circ} 58'$	$15^{\text{h}} 1^{\text{m}}$	$+27^{\circ} 14'$	$15^{\text{h}} 6^{\text{m}}$	$-51^{\circ} 48'$	$15^{\text{h}} 11^{\text{m}}$	$-68^{\circ} 23'$
Jan. 0.9	32.760 <sub>327</sub>	36.48 <sub>112</sub>	7.551 <sub>305</sub>	47.90 <sub>252</sub>	43.624 <sub>445</sub>	6.93 <sub>6</sub>	40.51 <sub>69</sub>	25.90 <sub>60</sub>
10.8	33.087 <sub>339</sub>	37.60 <sub>130</sub>	7.856 <sub>323</sub>	45.38 <sub>219</sub>	44.069 <sub>464</sub>	6.99 <sub>45</sub>	41.20 <sub>73</sub>	25.30 <sub>11</sub>
20.8	33.426 <sub>342</sub>	38.90 <sub>141</sub>	8.179 <sub>329</sub>	43.19 <sub>177</sub>	44.533 <sub>471</sub>	7.44 <sub>83</sub>	41.92 <sub>74</sub>	25.19 <sub>38</sub>
30.8	33.768 <sub>335</sub>	40.31 <sub>148</sub>	8.508 <sub>327</sub>	41.42 <sub>132</sub>	45.004 <sub>466</sub>	8.27 <sub>117</sub>	42.66 <sub>74</sub>	25.57 <sub>86</sub>
Feb. 9.7	34.103 <sub>321</sub>	41.79 <sub>151</sub>	8.835 <sub>316</sub>	40.10 <sub>81</sub>	45.470 <sub>450</sub>	9.44 <sub>147</sub>	43.40 <sub>72</sub>	26.43 <sub>128</sub>
19.7	34.424 <sub>301</sub>	43.30 <sub>148</sub>	9.151 <sub>296</sub>	39.29 <sub>29</sub>	45.920 <sub>426</sub>	10.91 <sub>171</sub>	44.12 <sub>68</sub>	27.71 <sub>168</sub>
März 1.7	34.725 <sub>277</sub>	44.78 <sub>142</sub>	9.447 <sub>272</sub>	39.00 <sub>22</sub>	46.346 <sub>396</sub>	12.62 <sub>192</sub>	44.80 <sub>65</sub>	29.39 <sub>202</sub>
11.7	35.002 <sub>251</sub>	46.20 <sub>134</sub>	9.719 <sub>243</sub>	39.22 <sub>70</sub>	46.742 <sub>360</sub>	14.54 <sub>208</sub>	45.45 <sub>58</sub>	31.41 <sub>231</sub>
21.6	35.253 <sub>221</sub>	47.54 <sub>122</sub>	9.962 <sub>210</sub>	39.92 <sub>114</sub>	47.102 <sub>320</sub>	16.62 <sub>218</sub>	46.03 <sub>53</sub>	33.72 <sub>254</sub>
31.6	35.474 <sub>192</sub>	48.76 <sub>112</sub>	10.172 <sub>176</sub>	41.06 <sub>151</sub>	47.422 <sub>279</sub>	18.80 <sub>225</sub>	46.56 <sub>45</sub>	36.26 <sub>272</sub>
Apr. 10.6	35.666 <sub>161</sub>	49.88 <sub>99</sub>	10.348 <sub>141</sub>	42.57 <sub>181</sub>	47.701 <sub>234</sub>	21.05 <sub>228</sub>	47.01 <sub>38</sub>	38.98 <sub>284</sub>
20.6	35.827 <sub>130</sub>	50.87 <sub>87</sub>	10.489 <sub>107</sub>	44.38 <sub>201</sub>	47.935 <sub>189</sub>	23.33 <sub>227</sub>	47.39 <sub>30</sub>	41.82 <sub>290</sub>
30.5	35.957 <sub>99</sub>	51.74 <sub>75</sub>	10.596 <sub>71</sub>	46.39 <sub>215</sub>	48.124 <sub>140</sub>	25.60 <sub>220</sub>	47.69 <sub>21</sub>	44.72 <sub>291</sub>
Mai 10.5	36.056 <sub>68</sub>	52.49 <sub>63</sub>	10.667 <sub>37</sub>	48.54 <sub>220</sub>	48.264 <sub>92</sub>	27.80 <sub>212</sub>	47.90 <sub>12</sub>	47.63 <sub>285</sub>
20.5	36.124 <sub>36</sub>	53.12 <sub>51</sub>	10.704 <sub>4</sub>	50.74 <sub>216</sub>	48.356 <sub>43</sub>	29.92 <sub>198</sub>	48.02 <sub>4</sub>	50.48 <sub>273</sub>
30.4	36.160 <sub>5</sub>	53.63 <sub>39</sub>	10.708 <sub>29</sub>	52.90 <sub>207</sub>	48.399 <sub>8</sub>	31.90 <sub>180</sub>	48.06 <sub>5</sub>	53.21 <sub>255</sub>
Juni 9.4	36.165 <sub>28</sub>	54.02 <sub>27</sub>	10.679 <sub>59</sub>	54.97 <sub>190</sub>	48.391 <sub>58</sub>	33.70 <sub>159</sub>	48.01 <sub>14</sub>	55.76 <sub>232</sub>
19.4	36.137 <sub>58</sub>	54.29 <sub>14</sub>	10.620 <sub>88</sub>	56.87 <sub>169</sub>	48.333 <sub>106</sub>	35.29 <sub>134</sub>	47.87 <sub>22</sub>	58.08 <sub>202</sub>
29.4	36.079 <sub>87</sub>	54.43 <sub>2</sub>	10.532 <sub>115</sub>	58.56 <sub>144</sub>	48.227 <sub>151</sub>	36.63 <sub>105</sub>	47.65 <sub>30</sub>	60.10 <sub>168</sub>
Juli 9.3	35.992 <sub>114</sub>	54.45 <sub>12</sub>	10.417 <sub>139</sub>	60.00 <sub>114</sub>	48.076 <sub>192</sub>	37.68 <sub>74</sub>	47.35 <sub>37</sub>	61.78 <sub>128</sub>
19.3	35.878 <sub>136</sub>	54.33 <sub>25</sub>	10.278 <sub>158</sub>	61.14 <sub>82</sub>	47.884 <sub>226</sub>	38.42 <sub>39</sub>	46.98 <sub>42</sub>	63.06 <sub>84</sub>
29.3	35.742 <sub>155</sub>	54.08 <sub>39</sub>	10.120 <sub>174</sub>	61.96 <sub>48</sub>	47.658 <sub>253</sub>	38.81 <sub>3</sub>	46.56 <sub>47</sub>	63.90 <sub>38</sub>
Aug. 8.3	35.587 <sub>167</sub>	53.69 <sub>51</sub>	9.946 <sub>183</sub>	62.44 <sub>13</sub>	47.405 <sub>270</sub>	38.84 <sub>34</sub>	46.09 <sub>50</sub>	64.28 <sub>11</sub>
18.2	35.420 <sub>171</sub>	53.18 <sub>61</sub>	9.763 <sub>186</sub>	62.57 <sub>23</sub>	47.135 <sub>275</sub>	38.50 <sub>70</sub>	45.59 <sub>50</sub>	64.17 <sub>59</sub>
28.2	35.249 <sub>167</sub>	52.57 <sub>72</sub>	9.577 <sub>182</sub>	62.34 <sub>60</sub>	46.860 <sub>269</sub>	37.80 <sub>104</sub>	45.09 <sub>49</sub>	63.58 <sub>106</sub>
Sept. 7.2	35.082 <sub>153</sub>	51.85 <sub>77</sub>	9.395 <sub>170</sub>	61.74 <sub>96</sub>	46.591 <sub>248</sub>	36.76 <sub>135</sub>	44.60 <sub>45</sub>	62.52 <sub>150</sub>
17.1	34.929 <sub>131</sub>	51.08 <sub>80</sub>	9.225 <sub>148</sub>	60.78 <sub>131</sub>	46.343 <sub>214</sub>	35.41 <sub>161</sub>	44.15 <sub>39</sub>	61.02 <sub>188</sub>
27.1	34.798 <sub>99</sub>	50.28 <sub>78</sub>	9.077 <sub>120</sub>	59.47 <sub>166</sub>	46.129 <sub>167</sub>	33.80 <sub>180</sub>	43.76 <sub>32</sub>	59.14 <sub>221</sub>
Okt. 7.1	34.699 <sub>59</sub>	49.50 <sub>71</sub>	8.957 <sub>83</sub>	57.81 <sub>198</sub>	45.962 <sub>109</sub>	32.00 <sub>193</sub>	43.44 <sub>22</sub>	56.93 <sub>245</sub>
17.1	34.640 <sub>11</sub>	48.79 <sub>60</sub>	8.874 <sub>38</sub>	55.83 <sub>228</sub>	45.853 <sub>40</sub>	30.07 <sub>197</sub>	43.22 <sub>11</sub>	54.48 <sub>259</sub>
27.0	34.629 <sub>42</sub>	48.19 <sub>44</sub>	8.836 <sub>11</sub>	53.55 <sub>254</sub>	45.813 <sub>34</sub>	28.10 <sub>193</sub>	43.11 <sub>1</sub>	51.89 <sub>263</sub>
Nov. 6.0	34.671 <sub>96</sub>	47.75 <sub>23</sub>	8.847 <sub>63</sub>	51.01 <sub>276</sub>	45.847 <sub>112</sub>	26.17 <sub>179</sub>	43.12 <sub>13</sub>	49.26 <sub>256</sub>
16.0	34.767 <sub>151</sub>	47.52 <sub>1</sub>	8.910 <sub>117</sub>	48.25 <sub>291</sub>	45.959 <sub>190</sub>	24.38 <sub>158</sub>	43.25 <sub>26</sub>	46.70 <sub>238</sub>
26.0	34.918 <sub>202</sub>	47.53 <sub>26</sub>	9.027 <sub>168</sub>	45.34 <sub>298</sub>	46.149 <sub>262</sub>	22.80 <sub>130</sub>	43.51 <sub>38</sub>	44.32 <sub>212</sub>
Dez. 5.9	35.120 <sub>249</sub>	47.79 <sub>53</sub>	9.195 <sub>217</sub>	42.36 <sub>299</sub>	46.411 <sub>328</sub>	21.50 <sub>95</sub>	43.89 <sub>49</sub>	42.20 <sub>177</sub>
15.9	35.369 <sub>286</sub>	48.32 <sub>79</sub>	9.412 <sub>258</sub>	39.37 <sub>288</sub>	46.739 <sub>382</sub>	20.55 <sub>58</sub>	44.38 <sub>57</sub>	40.43 <sub>134</sub>
25.9	35.655 <sub>315</sub>	49.11 <sub>102</sub>	9.670 <sub>291</sub>	36.49 <sub>271</sub>	47.121 <sub>424</sub>	19.97 <sub>17</sub>	44.95 <sub>65</sub>	39.09 <sub>89</sub>
35.8	35.970	50.13	9.961	33.78	47.545	19.80	45.60	38.20
Mittl. Ort sec $\delta$ , tg $\delta$	33.514 1.103	49.48 -0.466	8.758 1.125	49.37 +0.515	44.511 1.617	26.26 -1.271	41.87 2.716	47.79 -2.525

Mittlere Zeit Greenw.	563) $\delta$ Bootis		564) $\beta$ Librae		565) I H. Ursae min.		566) $\varphi^1$ Lupi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	15 <sup>h</sup> 12 <sup>m</sup>	+33° 35'	15 <sup>h</sup> 12 <sup>m</sup>	-9° 5'	15 <sup>h</sup> 13 <sup>m</sup>	+67° 37'	15 <sup>h</sup> 16 <sup>m</sup>	-35° 58'
1923								
Jan. 0.9	22.527 <sup>309</sup>	62.26 <sup>266</sup>	50.764 <sup>296</sup>	50.55 <sup>161</sup>	41.56 <sup>53</sup>	72.45 <sup>270</sup>	53.946 <sup>351</sup>	43.64 <sup>56</sup>
10.8	22.836 <sup>331</sup>	59.60 <sup>229</sup>	51.060 <sup>310</sup>	52.16 <sup>162</sup>	42.09 <sup>59</sup>	69.75 <sup>217</sup>	54.297 <sup>368</sup>	44.20 <sup>83</sup>
20.8	23.167 <sup>342</sup>	57.31 <sup>183</sup>	51.370 <sup>314</sup>	53.78 <sup>157</sup>	42.68 <sup>63</sup>	67.58 <sup>156</sup>	54.665 <sup>374</sup>	45.03 <sup>106</sup>
30.8	23.509 <sup>342</sup>	55.48 <sup>133</sup>	51.684 <sup>311</sup>	55.35 <sup>148</sup>	43.31 <sup>65</sup>	66.02 <sup>90</sup>	55.039 <sup>371</sup>	46.09 <sup>125</sup>
Feb. 9.7	23.851 <sup>333</sup>	54.15 <sup>78</sup>	51.995 <sup>300</sup>	56.83 <sup>132</sup>	43.96 <sup>64</sup>	65.12 <sup>22</sup>	55.410 <sup>360</sup>	47.34 <sup>139</sup>
19.7	24.184 <sup>316</sup>	53.37 <sup>22</sup>	52.295 <sup>284</sup>	58.15 <sup>113</sup>	44.60 <sup>61</sup>	64.90 <sup>46</sup>	55.770 <sup>341</sup>	48.73 <sup>149</sup>
März 1.7	24.500 <sup>293</sup>	53.15 <sup>34</sup>	52.579 <sup>263</sup>	59.28 <sup>92</sup>	45.21 <sup>57</sup>	65.36 <sup>110</sup>	56.111 <sup>319</sup>	50.22 <sup>155</sup>
11.7	24.793 <sup>263</sup>	53.49 <sup>87</sup>	52.842 <sup>239</sup>	60.20 <sup>69</sup>	45.78 <sup>51</sup>	66.46 <sup>170</sup>	56.430 <sup>292</sup>	51.77 <sup>157</sup>
21.6	25.056 <sup>229</sup>	54.36 <sup>133</sup>	53.081 <sup>213</sup>	60.89 <sup>47</sup>	46.29 <sup>44</sup>	68.16 <sup>221</sup>	56.722 <sup>262</sup>	53.34 <sup>156</sup>
31.6	25.285 <sup>195</sup>	55.69 <sup>173</sup>	53.294 <sup>186</sup>	61.36 <sup>26</sup>	46.73 <sup>34</sup>	70.37 <sup>262</sup>	56.984 <sup>231</sup>	54.90 <sup>154</sup>
Apr. 10.6	25.480 <sup>156</sup>	57.42 <sup>206</sup>	53.480 <sup>159</sup>	61.62 <sup>7</sup>	47.07 <sup>26</sup>	72.99 <sup>293</sup>	57.215 <sup>198</sup>	56.44 <sup>149</sup>
20.6	25.636 <sup>119</sup>	59.48 <sup>242</sup>	53.639 <sup>130</sup>	61.69 <sup>10</sup>	47.33 <sup>16</sup>	75.92 <sup>313</sup>	57.413 <sup>165</sup>	57.93 <sup>142</sup>
30.5	25.755 <sup>81</sup>	61.76 <sup>228</sup>	53.769 <sup>102</sup>	61.59 <sup>23</sup>	47.49 <sup>6</sup>	79.05 <sup>320</sup>	57.578 <sup>130</sup>	59.35 <sup>134</sup>
Mai 10.5	25.836 <sup>43</sup>	64.18 <sup>247</sup>	53.871 <sup>73</sup>	61.36 <sup>34</sup>	47.55 <sup>3</sup>	82.25 <sup>317</sup>	57.708 <sup>94</sup>	60.69 <sup>125</sup>
20.5	25.879 <sup>7</sup>	66.65 <sup>244</sup>	53.944 <sup>45</sup>	61.02 <sup>42</sup>	47.52 <sup>12</sup>	85.42 <sup>304</sup>	57.802 <sup>57</sup>	61.94 <sup>113</sup>
30.4	25.886 <sup>30</sup>	69.09 <sup>232</sup>	53.989 <sup>14</sup>	60.60 <sup>47</sup>	47.40 <sup>21</sup>	88.46 <sup>280</sup>	57.859 <sup>19</sup>	63.07 <sup>100</sup>
Juni 9.4	25.856 <sup>64</sup>	71.41 <sup>214</sup>	54.003 <sup>15</sup>	60.13 <sup>51</sup>	47.19 <sup>28</sup>	91.26 <sup>250</sup>	57.878 <sup>18</sup>	64.07 <sup>86</sup>
19.4	25.792 <sup>96</sup>	73.55 <sup>189</sup>	53.988 <sup>45</sup>	59.62 <sup>52</sup>	46.91 <sup>35</sup>	93.76 <sup>212</sup>	57.860 <sup>56</sup>	64.93 <sup>69</sup>
29.4	25.696 <sup>126</sup>	75.44 <sup>161</sup>	53.943 <sup>71</sup>	59.10 <sup>53</sup>	46.56 <sup>42</sup>	95.88 <sup>169</sup>	57.804 <sup>92</sup>	65.62 <sup>50</sup>
Juli 9.3	25.570 <sup>152</sup>	77.05 <sup>127</sup>	53.872 <sup>98</sup>	58.57 <sup>53</sup>	46.14 <sup>46</sup>	97.57 <sup>121</sup>	57.712 <sup>124</sup>	66.12 <sup>30</sup>
19.3	25.418 <sup>175</sup>	78.32 <sup>92</sup>	53.774 <sup>120</sup>	58.04 <sup>50</sup>	45.68 <sup>50</sup>	98.78 <sup>71</sup>	57.588 <sup>153</sup>	66.42 <sup>9</sup>
29.3	25.243 <sup>192</sup>	79.24 <sup>53</sup>	53.654 <sup>138</sup>	57.54 <sup>49</sup>	45.18 <sup>53</sup>	99.49 <sup>19</sup>	57.435 <sup>177</sup>	66.51 <sup>14</sup>
Aug. 8.3	25.051 <sup>203</sup>	79.77 <sup>14</sup>	53.516 <sup>152</sup>	57.05 <sup>45</sup>	44.65 <sup>54</sup>	99.68 <sup>35</sup>	57.258 <sup>192</sup>	66.37 <sup>36</sup>
18.2	24.848 <sup>207</sup>	79.91 <sup>27</sup>	53.364 <sup>158</sup>	56.60 <sup>40</sup>	44.11 <sup>54</sup>	99.33 <sup>86</sup>	57.066 <sup>201</sup>	66.01 <sup>58</sup>
28.2	24.641 <sup>205</sup>	79.64 <sup>67</sup>	53.206 <sup>156</sup>	56.20 <sup>33</sup>	43.57 <sup>53</sup>	98.47 <sup>137</sup>	56.865 <sup>199</sup>	65.43 <sup>78</sup>
Sept. 7.2	24.436 <sup>193</sup>	78.97 <sup>108</sup>	53.050 <sup>147</sup>	55.87 <sup>26</sup>	43.04 <sup>49</sup>	97.10 <sup>186</sup>	56.666 <sup>187</sup>	64.65 <sup>96</sup>
17.1	24.243 <sup>172</sup>	77.89 <sup>147</sup>	52.903 <sup>129</sup>	55.61 <sup>15</sup>	42.55 <sup>45</sup>	95.24 <sup>232</sup>	56.479 <sup>163</sup>	63.69 <sup>109</sup>
27.1	24.071 <sup>144</sup>	76.42 <sup>184</sup>	52.774 <sup>102</sup>	55.46 <sup>3</sup>	42.10 <sup>39</sup>	92.92 <sup>273</sup>	56.316 <sup>130</sup>	62.60 <sup>118</sup>
Okt. 7.1	23.927 <sup>105</sup>	74.58 <sup>219</sup>	52.672 <sup>66</sup>	55.43 <sup>14</sup>	41.71 <sup>32</sup>	90.19 <sup>310</sup>	56.186 <sup>85</sup>	61.42 <sup>121</sup>
17.1	23.822 <sup>61</sup>	72.39 <sup>251</sup>	52.606 <sup>25</sup>	55.57 <sup>31</sup>	41.39 <sup>23</sup>	87.09 <sup>340</sup>	56.101 <sup>35</sup>	60.21 <sup>118</sup>
27.0	23.761 <sup>10</sup>	69.88 <sup>278</sup>	52.581 <sup>24</sup>	55.88 <sup>51</sup>	41.16 <sup>14</sup>	83.69 <sup>365</sup>	56.066 <sup>24</sup>	59.03 <sup>109</sup>
Nov. 6.0	23.751 <sup>46</sup>	67.10 <sup>300</sup>	52.605 <sup>73</sup>	56.39 <sup>73</sup>	41.02 <sup>2</sup>	80.04 <sup>379</sup>	56.090 <sup>84</sup>	57.94 <sup>93</sup>
16.0	23.797 <sup>101</sup>	64.10 <sup>315</sup>	52.678 <sup>124</sup>	57.12 <sup>95</sup>	41.00 <sup>8</sup>	76.25 <sup>385</sup>	56.174 <sup>146</sup>	57.01 <sup>72</sup>
26.0	23.898 <sup>158</sup>	60.95 <sup>322</sup>	52.802 <sup>172</sup>	58.07 <sup>116</sup>	41.08 <sup>19</sup>	72.40 <sup>380</sup>	56.320 <sup>204</sup>	56.29 <sup>47</sup>
Dez. 5.9	24.056 <sup>208</sup>	57.73 <sup>320</sup>	52.974 <sup>216</sup>	59.23 <sup>134</sup>	41.27 <sup>30</sup>	68.60 <sup>366</sup>	56.524 <sup>256</sup>	55.82 <sup>18</sup>
15.9	24.264 <sup>255</sup>	54.53 <sup>308</sup>	53.190 <sup>254</sup>	60.57 <sup>149</sup>	41.57 <sup>40</sup>	64.94 <sup>338</sup>	56.780 <sup>301</sup>	55.64 <sup>12</sup>
25.9	24.519 <sup>292</sup>	51.45 <sup>286</sup>	53.444 <sup>283</sup>	62.06 <sup>160</sup>	41.97 <sup>48</sup>	61.56 <sup>301</sup>	57.081 <sup>335</sup>	55.76 <sup>41</sup>
35.8	24.811	48.59	53.727	63.66	42.45	58.55	57.416	56.17
Mittl. Ort sec $\delta$ , tg $\delta$	23.908 1.201	64.58 +0.664	51.649 1.013	59.31 -0.160	44.90 2.629	79.93 +2.431	54.820 1.236	59.43 -0.726



Mittlere Zeit Greenw.	569) $\gamma$ Ursae min.		568) $\mu$ Bootis		571) $\iota$ Draconis		572) $\beta$ Coron. bor.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	15 <sup>h</sup> 20 <sup>m</sup>	+72° 6'	15 <sup>h</sup> 21 <sup>m</sup>	+37° 38'	15 <sup>h</sup> 23 <sup>m</sup>	+59° 13'	15 <sup>h</sup> 24 <sup>m</sup>	+29° 21'
Jan. 0.9	46.08 <sub>62</sub>	21.49 <sub>270</sub>	33.355 <sub>310</sub>	44.57 <sub>275</sub>	10.373 <sub>410</sub>	61.35 <sub>284</sub>	37.910 <sub>292</sub>	72.26 <sub>264</sub>
10.8	46.70 <sub>69</sub>	18.79 <sub>218</sub>	33.665 <sub>336</sub>	41.82 <sub>236</sub>	10.783 <sub>455</sub>	58.51 <sub>234</sub>	38.202 <sub>316</sub>	69.62 <sub>232</sub>
20.8	47.39 <sub>75</sub>	16.61 <sub>157</sub>	34.001 <sub>349</sub>	39.46 <sub>188</sub>	11.238 <sub>485</sub>	56.17 <sub>177</sub>	38.518 <sub>327</sub>	67.30 <sub>190</sub>
30.8	48.14 <sub>77</sub>	15.04 <sub>91</sub>	34.350 <sub>354</sub>	37.58 <sub>136</sub>	11.723 <sub>498</sub>	54.40 <sub>113</sub>	38.845 <sub>329</sub>	65.40 <sub>145</sub>
Feb. 9.7	48.91 <sub>78</sub>	14.13 <sub>23</sub>	34.704 <sub>346</sub>	36.22 <sub>79</sub>	12.221 <sub>495</sub>	53.27 <sub>47</sub>	39.174 <sub>323</sub>	63.95 <sub>92</sub>
19.7	49.69 <sub>75</sub>	13.90 <sub>45</sub>	35.050 <sub>332</sub>	35.43 <sub>19</sub>	12.716 <sub>477</sub>	52.80 <sub>21</sub>	39.497 <sub>309</sub>	63.03 <sub>39</sub>
März 1.7	50.44 <sub>70</sub>	14.35 <sub>110</sub>	35.382 <sub>308</sub>	35.24 <sub>39</sub>	13.193 <sub>445</sub>	53.01 <sub>85</sub>	39.806 <sub>288</sub>	62.64 <sub>16</sub>
11.7	51.14 <sub>63</sub>	15.45 <sub>170</sub>	35.690 <sub>279</sub>	35.63 <sub>93</sub>	13.638 <sub>401</sub>	53.86 <sub>147</sub>	40.094 <sub>262</sub>	62.80 <sub>66</sub>
21.6	51.77 <sub>53</sub>	17.15 <sub>222</sub>	35.969 <sub>246</sub>	36.56 <sub>144</sub>	14.039 <sub>348</sub>	55.33 <sub>199</sub>	40.356 <sub>232</sub>	63.46 <sub>114</sub>
31.6	52.30 <sub>44</sub>	19.37 <sub>263</sub>	36.215 <sub>209</sub>	38.00 <sub>185</sub>	14.387 <sub>289</sub>	57.32 <sub>243</sub>	40.588 <sub>200</sub>	64.60 <sub>153</sub>
Apr. 10.6	52.74 <sub>32</sub>	22.00 <sub>295</sub>	36.424 <sub>169</sub>	39.85 <sub>219</sub>	14.676 <sub>223</sub>	59.75 <sub>278</sub>	40.788 <sub>166</sub>	66.13 <sub>187</sub>
20.6	53.06 <sub>20</sub>	24.95 <sub>315</sub>	36.593 <sub>130</sub>	42.04 <sub>244</sub>	14.899 <sub>155</sub>	62.53 <sub>301</sub>	40.954 <sub>131</sub>	68.00 <sub>211</sub>
30.5	53.26 <sub>8</sub>	28.10 <sub>324</sub>	36.723 <sub>89</sub>	44.48 <sub>259</sub>	15.054 <sub>85</sub>	65.54 <sub>313</sub>	41.085 <sub>95</sub>	70.11 <sub>227</sub>
Mai 10.5	53.34 <sub>5</sub>	31.34 <sub>320</sub>	36.812 <sub>49</sub>	47.07 <sub>263</sub>	15.139 <sub>18</sub>	68.67 <sub>314</sub>	41.180 <sub>60</sub>	72.38 <sub>234</sub>
20.5	53.29 <sub>15</sub>	34.54 <sub>308</sub>	36.861 <sub>9</sub>	49.70 <sub>261</sub>	15.157 <sub>49</sub>	71.81 <sub>304</sub>	41.240 <sub>23</sub>	74.72 <sub>234</sub>
30.4	53.14 <sub>27</sub>	37.62 <sub>285</sub>	36.870 <sub>30</sub>	52.31 <sub>249</sub>	15.108 <sub>112</sub>	74.85 <sub>286</sub>	41.263 <sub>10</sub>	77.06 <sub>225</sub>
Juni 9.4	52.87 <sub>36</sub>	40.47 <sub>254</sub>	36.840 <sub>67</sub>	54.80 <sub>229</sub>	14.996 <sub>171</sub>	77.71 <sub>260</sub>	41.253 <sub>45</sub>	79.31 <sub>210</sub>
19.4	52.51 <sub>46</sub>	43.01 <sub>217</sub>	36.773 <sub>102</sub>	57.09 <sub>205</sub>	14.825 <sub>225</sub>	80.31 <sub>225</sub>	41.208 <sub>78</sub>	81.41 <sub>190</sub>
29.4	52.05 <sub>53</sub>	45.18 <sub>174</sub>	36.671 <sub>135</sub>	59.14 <sub>174</sub>	14.600 <sub>273</sub>	82.56 <sub>186</sub>	41.130 <sub>108</sub>	83.31 <sub>164</sub>
Juli 9.3	51.52 <sub>59</sub>	46.92 <sub>126</sub>	36.536 <sub>164</sub>	60.88 <sub>139</sub>	14.327 <sub>313</sub>	84.42 <sub>141</sub>	41.022 <sub>136</sub>	84.95 <sub>133</sub>
19.3	50.93 <sub>64</sub>	48.18 <sub>76</sub>	36.372 <sub>188</sub>	62.27 <sub>101</sub>	14.014 <sub>317</sub>	85.83 <sub>94</sub>	40.886 <sub>159</sub>	86.28 <sub>101</sub>
29.3	50.29 <sub>68</sub>	48.94 <sub>23</sub>	36.184 <sub>207</sub>	63.28 <sub>59</sub>	13.667 <sub>371</sub>	86.77 <sub>44</sub>	40.727 <sub>179</sub>	87.29 <sub>66</sub>
Aug. 8.3	49.61 <sub>69</sub>	49.17 <sub>29</sub>	35.977 <sub>220</sub>	63.87 <sub>19</sub>	13.296 <sub>386</sub>	87.21 <sub>7</sub>	40.548 <sub>192</sub>	87.95 <sub>29</sub>
18.2	48.92 <sub>69</sub>	48.88 <sub>82</sub>	35.757 <sub>227</sub>	64.06 <sub>25</sub>	12.910 <sub>391</sub>	87.14 <sub>59</sub>	40.356 <sub>199</sub>	88.24 <sub>9</sub>
28.2	48.23 <sub>68</sub>	48.06 <sub>134</sub>	35.530 <sub>224</sub>	63.81 <sub>68</sub>	12.519 <sub>383</sub>	86.55 <sub>109</sub>	40.157 <sub>199</sub>	88.15 <sub>48</sub>
Sept. 7.2	47.55 <sub>64</sub>	46.72 <sub>182</sub>	35.306 <sub>213</sub>	63.13 <sub>111</sub>	12.136 <sub>366</sub>	85.46 <sub>159</sub>	39.958 <sub>189</sub>	87.67 <sub>85</sub>
17.1	46.91 <sub>58</sub>	44.90 <sub>228</sub>	35.093 <sub>194</sub>	62.02 <sub>152</sub>	11.770 <sub>334</sub>	83.87 <sub>205</sub>	39.769 <sub>172</sub>	86.82 <sub>124</sub>
27.1	46.33 <sub>52</sub>	42.62 <sub>270</sub>	34.899 <sub>164</sub>	60.50 <sub>191</sub>	11.436 <sub>292</sub>	81.82 <sub>248</sub>	39.597 <sub>145</sub>	85.58 <sub>160</sub>
Okt. 7.1	45.81 <sub>43</sub>	39.92 <sub>308</sub>	34.735 <sub>126</sub>	58.59 <sub>228</sub>	11.144 <sub>237</sub>	79.34 <sub>287</sub>	39.452 <sub>110</sub>	83.98 <sub>195</sub>
17.1	45.38 <sub>33</sub>	36.84 <sub>338</sub>	34.609 <sub>81</sub>	56.31 <sub>262</sub>	10.907 <sub>172</sub>	76.47 <sub>320</sub>	39.342 <sub>67</sub>	82.03 <sub>228</sub>
27.0	45.05 <sub>21</sub>	33.46 <sub>361</sub>	34.528 <sub>28</sub>	53.69 <sub>289</sub>	10.735 <sub>98</sub>	73.27 <sub>348</sub>	39.275 <sub>19</sub>	79.75 <sub>255</sub>
Nov. 6.0	44.84 <sub>8</sub>	29.85 <sub>377</sub>	34.500 <sub>29</sub>	50.80 <sub>312</sub>	10.637 <sub>18</sub>	69.79 <sub>366</sub>	39.256 <sub>34</sub>	77.20 <sub>278</sub>
16.0	44.76 <sub>5</sub>	26.08 <sub>384</sub>	34.529 <sub>88</sub>	47.68 <sub>328</sub>	10.619 <sub>68</sub>	66.13 <sub>377</sub>	39.290 <sub>89</sub>	74.42 <sub>296</sub>
26.0	44.81 <sub>18</sub>	22.24 <sub>379</sub>	34.617 <sub>145</sub>	44.40 <sub>334</sub>	10.687 <sub>152</sub>	62.36 <sub>378</sub>	39.379 <sub>143</sub>	71.46 <sub>306</sub>
Dez. 5.9	44.99 <sub>32</sub>	18.45 <sub>365</sub>	34.762 <sub>201</sub>	41.06 <sub>332</sub>	10.839 <sub>235</sub>	58.58 <sub>366</sub>	39.522 <sub>193</sub>	68.40 <sub>308</sub>
15.9	45.31 <sub>45</sub>	14.80 <sub>339</sub>	34.963 <sub>249</sub>	37.74 <sub>319</sub>	11.074 <sub>311</sub>	54.92 <sub>346</sub>	39.715 <sub>238</sub>	65.32 <sub>300</sub>
25.9	45.76 <sub>56</sub>	11.41 <sub>301</sub>	35.212 <sub>292</sub>	34.55 <sub>297</sub>	11.385 <sub>377</sub>	51.46 <sub>311</sub>	39.953 <sub>276</sub>	62.32 <sub>282</sub>
35.8	46.32	8.40	35.504	31.58	11.762	48.35	40.229	59.50
Mittl. Ort sec <sup>δ</sup> , tg $\delta$	50.29 3.255	28.72 +3.098	34.869 1.263	47.19 +0.771	12.870 1.955	67.26 +1.680	39.251 1.147	72.98 +0.563

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	573) $\nu$ Bootis		575) $\gamma$ Lupi		577) $\gamma$ Librae		578) $\alpha$ Coron. bor.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$15^{\text{h}} 28^{\text{m}}$	$+41^{\circ} 5'$	$15^{\text{h}} 29^{\text{m}}$	$-40^{\circ} 54'$	$15^{\text{h}} 31^{\text{m}}$	$-14^{\circ} 31'$	$15^{\text{h}} 31^{\text{m}}$	$+26^{\circ} 58'$
Jan. 0.9	8.152 <sup>313</sup>	38.41 <sup>282</sup>	59.114 <sup>363</sup>	16.24 <sup>24</sup>	11.992 <sup>293</sup>	51.04 <sup>133</sup>	24.313 <sup>285</sup>	22.73 <sup>263</sup>
10.8	8.465 <sup>343</sup>	35.59 <sup>243</sup>	59.477 <sup>385</sup>	16.48 <sup>54</sup>	12.285 <sup>310</sup>	52.37 <sup>139</sup>	24.598 <sup>308</sup>	20.10 <sup>232</sup>
20.8	8.808 <sup>359</sup>	33.16 <sup>193</sup>	59.862 <sup>394</sup>	17.02 <sup>80</sup>	12.595 <sup>317</sup>	53.76 <sup>140</sup>	24.906 <sup>321</sup>	17.78 <sup>195</sup>
30.8	9.167 <sup>366</sup>	31.23 <sup>139</sup>	60.256 <sup>395</sup>	17.82 <sup>105</sup>	12.912 <sup>317</sup>	55.16 <sup>137</sup>	25.227 <sup>324</sup>	15.83 <sup>150</sup>
Feb. 9.8	9.533 <sup>360</sup>	29.84 <sup>79</sup>	60.651 <sup>385</sup>	18.87 <sup>123</sup>	13.229 <sup>310</sup>	56.53 <sup>127</sup>	25.551 <sup>319</sup>	14.33 <sup>99</sup>
19.7	9.893	29.05	61.036	20.10	13.539	57.80	25.870	13.34 <sup>48</sup>
März 1.7	10.240 <sup>347</sup>	28.86 <sup>19</sup>	61.406 <sup>370</sup>	21.50 <sup>140</sup>	13.834 <sup>395</sup>	58.94 <sup>114</sup>	26.176 <sup>306</sup>	12.86 <sup>5</sup>
11.7	10.565 <sup>325</sup>	29.28 <sup>42</sup>	61.753 <sup>347</sup>	23.01 <sup>151</sup>	14.112 <sup>278</sup>	59.93 <sup>99</sup>	26.463 <sup>287</sup>	12.91 <sup>55</sup>
21.7	10.860 <sup>295</sup>	30.26 <sup>98</sup>	62.074 <sup>321</sup>	24.59 <sup>158</sup>	14.368 <sup>256</sup>	60.75 <sup>82</sup>	26.726 <sup>263</sup>	13.46 <sup>101</sup>
31.6	11.121 <sup>261</sup>	31.76 <sup>150</sup>	62.366 <sup>292</sup>	26.23 <sup>164</sup>	14.601 <sup>233</sup>	61.39 <sup>64</sup>	26.960 <sup>234</sup>	14.47 <sup>142</sup>
222		194	260	165	206	46	204	
Apr. 10.6	11.343 <sup>182</sup>	33.70 <sup>229</sup>	62.626 <sup>227</sup>	27.88 <sup>164</sup>	14.807 <sup>181</sup>	61.85 <sup>30</sup>	27.164 <sup>172</sup>	15.89 <sup>175</sup>
20.6	11.525 <sup>140</sup>	35.99 <sup>255</sup>	62.853 <sup>191</sup>	29.52 <sup>161</sup>	14.988 <sup>152</sup>	62.15 <sup>17</sup>	27.336 <sup>138</sup>	17.64 <sup>200</sup>
30.5	11.665 <sup>96</sup>	38.54 <sup>270</sup>	63.044 <sup>154</sup>	31.13 <sup>157</sup>	15.140 <sup>124</sup>	62.32 <sup>4</sup>	27.474 <sup>103</sup>	19.64 <sup>217</sup>
Mai 10.5	11.761 <sup>53</sup>	41.24 <sup>276</sup>	63.198 <sup>115</sup>	32.70 <sup>149</sup>	15.264 <sup>95</sup>	62.36 <sup>6</sup>	27.577 <sup>69</sup>	21.81 <sup>226</sup>
20.5	11.814 <sup>11</sup>	44.00 <sup>273</sup>	63.313 <sup>74</sup>	34.19 <sup>140</sup>	15.359 <sup>64</sup>	62.30 <sup>13</sup>	27.646 <sup>34</sup>	24.07 <sup>226</sup>
30.5	11.825 <sup>32</sup>	46.73 <sup>261</sup>	63.387 <sup>33</sup>	35.59 <sup>128</sup>	15.423 <sup>33</sup>	62.17 <sup>20</sup>	27.680 <sup>0</sup>	26.33 <sup>219</sup>
Juni 9.4	11.793 <sup>71</sup>	49.34 <sup>241</sup>	63.420 <sup>8</sup>	36.87 <sup>113</sup>	15.456 <sup>1</sup>	61.97 <sup>25</sup>	27.680 <sup>34</sup>	28.52 <sup>207</sup>
19.4	11.722 <sup>108</sup>	51.75 <sup>215</sup>	63.412 <sup>51</sup>	38.00 <sup>97</sup>	15.457 <sup>30</sup>	61.72 <sup>29</sup>	27.646 <sup>67</sup>	30.59 <sup>187</sup>
29.4	11.614 <sup>144</sup>	53.90 <sup>183</sup>	63.361 <sup>91</sup>	38.97 <sup>76</sup>	15.427 <sup>61</sup>	61.43 <sup>32</sup>	27.579 <sup>98</sup>	32.46 <sup>163</sup>
Juli 9.4	11.470 <sup>174</sup>	55.73 <sup>147</sup>	63.270 <sup>128</sup>	39.73 <sup>55</sup>	15.366 <sup>90</sup>	61.11 <sup>35</sup>	27.481 <sup>126</sup>	34.09 <sup>135</sup>
19.3	11.296 <sup>201</sup>	57.20 <sup>107</sup>	63.142 <sup>162</sup>	40.28 <sup>30</sup>	15.276 <sup>116</sup>	60.76 <sup>37</sup>	27.355 <sup>151</sup>	35.44 <sup>104</sup>
29.3	11.095 <sup>223</sup>	58.27 <sup>65</sup>	62.980 <sup>190</sup>	40.58 <sup>4</sup>	15.160 <sup>139</sup>	60.39 <sup>39</sup>	27.204 <sup>171</sup>	36.48 <sup>71</sup>
Aug. 8.3	10.872 <sup>236</sup>	58.92 <sup>21</sup>	62.790 <sup>208</sup>	40.62 <sup>21</sup>	15.021 <sup>154</sup>	60.00 <sup>41</sup>	27.033 <sup>185</sup>	37.19 <sup>35</sup>
18.2	10.636 <sup>243</sup>	59.13 <sup>24</sup>	62.582 <sup>220</sup>	40.41 <sup>48</sup>	14.867 <sup>164</sup>	59.59 <sup>41</sup>	26.848 <sup>194</sup>	37.54 <sup>0</sup>
28.2	10.393 <sup>243</sup>	58.89 <sup>69</sup>	62.362 <sup>221</sup>	39.93 <sup>73</sup>	14.703 <sup>165</sup>	59.18 <sup>40</sup>	26.654 <sup>195</sup>	37.54 <sup>38</sup>
Sept. 7.2	10.150 <sup>232</sup>	58.20 <sup>114</sup>	62.141 <sup>209</sup>	39.20 <sup>97</sup>	14.538 <sup>159</sup>	58.78 <sup>37</sup>	26.459 <sup>187</sup>	37.16 <sup>76</sup>
17.2	9.918 <sup>211</sup>	57.06 <sup>156</sup>	61.932 <sup>187</sup>	38.23 <sup>115</sup>	14.379 <sup>142</sup>	58.41 <sup>33</sup>	26.272 <sup>170</sup>	36.40 <sup>111</sup>
27.1	9.707 <sup>183</sup>	55.50 <sup>198</sup>	61.745 <sup>153</sup>	37.08 <sup>129</sup>	14.237 <sup>116</sup>	58.08 <sup>25</sup>	26.102 <sup>146</sup>	35.29 <sup>148</sup>
Okt. 7.1	9.524 <sup>144</sup>	53.52 <sup>236</sup>	61.592 <sup>107</sup>	35.79 <sup>138</sup>	14.121 <sup>83</sup>	57.83 <sup>14</sup>	25.956 <sup>111</sup>	33.81 <sup>182</sup>
17.1	9.380 <sup>97</sup>	51.16 <sup>270</sup>	61.485 <sup>54</sup>	34.41 <sup>140</sup>	14.038 <sup>40</sup>	57.69 <sup>0</sup>	25.845 <sup>70</sup>	31.99 <sup>214</sup>
27.1	9.283 <sup>43</sup>	48.46 <sup>299</sup>	61.431 <sup>7</sup>	33.01 <sup>135</sup>	13.998 <sup>7</sup>	57.69 <sup>17</sup>	25.775 <sup>22</sup>	29.85 <sup>243</sup>
Nov. 6.0	9.240 <sup>16</sup>	45.47 <sup>322</sup>	61.438 <sup>71</sup>	31.66 <sup>124</sup>	14.005 <sup>58</sup>	57.86 <sup>36</sup>	25.753 <sup>30</sup>	27.42 <sup>266</sup>
16.0	9.256 <sup>77</sup>	42.25 <sup>338</sup>	61.509 <sup>137</sup>	30.42 <sup>105</sup>	14.063 <sup>110</sup>	58.22 <sup>56</sup>	25.783 <sup>83</sup>	24.76 <sup>286</sup>
26.0	9.333 <sup>137</sup>	38.87 <sup>344</sup>	61.646 <sup>200</sup>	29.37 <sup>82</sup>	14.173 <sup>160</sup>	58.78 <sup>77</sup>	25.866 <sup>136</sup>	21.90 <sup>296</sup>
Dez. 5.9	9.470 <sup>196</sup>	35.43 <sup>342</sup>	61.846 <sup>256</sup>	28.55 <sup>54</sup>	14.333 <sup>207</sup>	59.55 <sup>97</sup>	26.002 <sup>186</sup>	18.94 <sup>301</sup>
15.9	9.666 <sup>248</sup>	32.01 <sup>328</sup>	62.102 <sup>306</sup>	28.01 <sup>24</sup>	14.540 <sup>246</sup>	60.52 <sup>115</sup>	26.188 <sup>231</sup>	15.93 <sup>294</sup>
25.9	9.914 <sup>293</sup>	28.73 <sup>305</sup>	62.408 <sup>346</sup>	27.77 <sup>7</sup>	14.786 <sup>278</sup>	61.67 <sup>129</sup>	26.419 <sup>268</sup>	12.99 <sup>279</sup>
35.9	10.207	25.68	62.754	27.84	15.064	62.96	26.687	10.20
Mittl. Ort	9.788	41.26	60.111	32.98	12.949	61.50	25.635	22.56
sec $\delta$ , tg $\delta$	1.327	+0.872	1.323	-0.867	1.033	-0.259	1.122	+0.509

Mittlere Zeit Greenw.	582) $\alpha$ Serpentis		583) $\beta$ Serpentis		584) $\gamma$ Serpentis		585) $\mu$ Serpentis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	15 <sup>h</sup> 40 <sup>m</sup>	+6° 39'	15 <sup>h</sup> 42 <sup>m</sup>	+15° 39'	15 <sup>h</sup> 45 <sup>m</sup>	+18° 22'	15 <sup>h</sup> 45 <sup>m</sup>	-3° 11'
Jan. 0.9	27.323 <sub>270</sub>	66.07 <sub>209</sub>	36.787 <sub>270</sub>	45.68 <sub>238</sub>	15.144 <sub>269</sub>	44.81 <sub>245</sub>	34.913 <sub>272</sub>	36.59 <sub>172</sub>
10.8	27.593 <sub>291</sub>	63.98 <sub>196</sub>	37.057 <sub>291</sub>	43.30 <sub>217</sub>	15.413 <sub>291</sub>	42.36 <sub>224</sub>	35.185 <sub>291</sub>	38.31 <sub>168</sub>
20.8	27.884 <sub>301</sub>	62.02 <sub>176</sub>	37.348 <sub>304</sub>	41.13 <sub>188</sub>	15.704 <sub>304</sub>	40.12 <sub>193</sub>	35.476 <sub>302</sub>	39.99 <sub>158</sub>
30.8	28.185 <sub>304</sub>	60.26 <sub>150</sub>	37.652 <sub>307</sub>	39.25 <sub>155</sub>	16.008 <sub>309</sub>	38.19 <sub>156</sub>	35.778 <sub>305</sub>	41.57 <sub>142</sub>
Feb. 9.8	28.489 <sub>298</sub>	58.76 <sub>118</sub>	37.959 <sub>303</sub>	37.70 <sub>115</sub>	16.317 <sub>306</sub>	36.63 <sub>114</sub>	36.083 <sub>300</sub>	42.99 <sub>121</sub>
19.7	28.787 <sub>287</sub>	57.58 <sub>84</sub>	38.262 <sub>293</sub>	36.55 <sub>71</sub>	16.623 <sub>295</sub>	35.49 <sub>68</sub>	36.383 <sub>288</sub>	44.20 <sub>97</sub>
März 1.7	29.074 <sub>270</sub>	56.74 <sub>48</sub>	38.555 <sub>275</sub>	35.84 <sub>27</sub>	16.918 <sub>279</sub>	34.81 <sub>23</sub>	36.671 <sub>274</sub>	45.17 <sub>69</sub>
11.7	29.344 <sub>251</sub>	56.26 <sub>11</sub>	38.830 <sub>255</sub>	35.57 <sub>16</sub>	17.197 <sub>259</sub>	34.58 <sub>24</sub>	36.945 <sub>254</sub>	45.86 <sub>42</sub>
21.7	29.595 <sub>227</sub>	56.15 <sub>23</sub>	39.085 <sub>232</sub>	35.73 <sub>57</sub>	17.456 <sub>235</sub>	34.82 <sub>66</sub>	37.199 <sub>232</sub>	46.28 <sub>15</sub>
31.6	29.822 <sub>203</sub>	56.38 <sub>55</sub>	39.317 <sub>206</sub>	36.30 <sub>93</sub>	17.691 <sub>209</sub>	35.48 <sub>104</sub>	37.431 <sub>209</sub>	46.43 <sub>11</sub>
Apr. 10.6	30.025 <sub>176</sub>	56.93 <sub>81</sub>	39.523 <sub>177</sub>	37.23 <sub>124</sub>	17.900 <sub>180</sub>	36.52 <sub>136</sub>	37.640 <sub>184</sub>	46.32 <sub>32</sub>
20.6	30.201 <sub>148</sub>	57.74 <sub>103</sub>	39.700 <sub>149</sub>	38.47 <sub>148</sub>	18.080 <sub>150</sub>	37.88 <sub>161</sub>	37.824 <sub>157</sub>	46.00 <sub>51</sub>
30.5	30.349 <sub>120</sub>	58.77 <sub>119</sub>	39.849 <sub>118</sub>	39.95 <sub>166</sub>	18.230 <sub>120</sub>	39.49 <sub>179</sub>	37.981 <sub>130</sub>	45.49 <sub>65</sub>
Mai 10.5	30.469 <sub>91</sub>	59.96 <sub>130</sub>	39.967 <sub>87</sub>	41.61 <sub>176</sub>	18.350 <sub>88</sub>	41.28 <sub>190</sub>	38.111 <sub>101</sub>	44.84 <sub>76</sub>
20.5	30.560 <sub>60</sub>	61.26 <sub>135</sub>	40.054 <sub>55</sub>	43.37 <sub>181</sub>	18.438 <sub>55</sub>	43.18 <sub>194</sub>	38.212 <sub>71</sub>	44.08 <sub>82</sub>
30.5	30.620 <sub>29</sub>	62.61 <sub>135</sub>	40.109 <sub>23</sub>	45.18 <sub>178</sub>	18.493 <sub>23</sub>	45.12 <sub>191</sub>	38.283 <sub>40</sub>	43.26 <sub>85</sub>
Juni 9.4	30.649 <sub>2</sub>	63.96 <sub>131</sub>	40.132 <sub>8</sub>	46.96 <sub>171</sub>	18.516 <sub>10</sub>	47.03 <sub>182</sub>	38.323 <sub>9</sub>	42.41 <sub>85</sub>
19.4	30.647 <sub>32</sub>	65.27 <sub>124</sub>	40.124 <sub>41</sub>	48.67 <sub>157</sub>	18.506 <sub>43</sub>	48.85 <sub>169</sub>	38.332 <sub>23</sub>	41.56 <sub>82</sub>
29.4	30.615 <sub>63</sub>	66.51 <sub>111</sub>	40.083 <sub>71</sub>	50.24 <sub>142</sub>	18.463 <sub>74</sub>	50.54 <sub>150</sub>	38.309 <sub>54</sub>	40.74 <sub>77</sub>
Juli 9.4	30.552 <sub>90</sub>	67.62 <sub>99</sub>	40.012 <sub>100</sub>	51.66 <sub>121</sub>	18.389 <sub>103</sub>	52.04 <sub>128</sub>	38.255 <sub>83</sub>	39.97 <sub>71</sub>
19.3	30.462 <sub>116</sub>	68.61 <sub>83</sub>	39.912 <sub>126</sub>	52.87 <sub>98</sub>	18.286 <sub>129</sub>	53.32 <sub>104</sub>	38.172 <sub>109</sub>	39.26 <sub>63</sub>
29.3	30.346 <sub>138</sub>	69.44 <sub>65</sub>	39.786 <sub>147</sub>	53.85 <sub>74</sub>	18.157 <sub>151</sub>	54.36 <sub>77</sub>	38.063 <sub>133</sub>	38.63 <sub>54</sub>
Aug. 8.3	30.208 <sub>154</sub>	70.09 <sub>46</sub>	39.639 <sub>164</sub>	54.59 <sub>46</sub>	18.006 <sub>169</sub>	55.13 <sub>47</sub>	37.930 <sub>150</sub>	38.09 <sub>44</sub>
18.2	30.054 <sub>165</sub>	70.55 <sub>26</sub>	39.475 <sub>175</sub>	55.05 <sub>19</sub>	17.837 <sub>179</sub>	55.60 <sub>18</sub>	37.780 <sub>162</sub>	37.65 <sub>33</sub>
28.2	29.889 <sub>167</sub>	70.81 <sub>5</sub>	39.300 <sub>177</sub>	55.24 <sub>9</sub>	17.658 <sub>182</sub>	55.78 <sub>13</sub>	37.618 <sub>165</sub>	37.32 <sub>21</sub>
Sept. 7.2	29.722 <sub>162</sub>	70.86 <sub>17</sub>	39.123 <sub>172</sub>	55.15 <sub>40</sub>	17.476 <sub>178</sub>	55.65 <sub>45</sub>	37.453 <sub>161</sub>	37.11 <sub>8</sub>
17.2	29.560 <sub>148</sub>	70.69 <sub>40</sub>	38.951 <sub>158</sub>	54.75 <sub>69</sub>	17.298 <sub>163</sub>	55.20 <sub>76</sub>	37.292 <sub>148</sub>	37.03 <sub>7</sub>
27.1	29.412 <sub>126</sub>	70.29 <sub>64</sub>	38.793 <sub>136</sub>	54.06 <sub>99</sub>	17.135 <sub>142</sub>	54.44 <sub>109</sub>	37.144 <sub>125</sub>	37.10 <sub>24</sub>
Okt. 7.1	29.286 <sub>94</sub>	69.65 <sub>88</sub>	38.657 <sub>104</sub>	53.07 <sub>129</sub>	16.993 <sub>110</sub>	53.35 <sub>139</sub>	37.019 <sub>94</sub>	37.34 <sub>41</sub>
17.1	29.192 <sub>56</sub>	68.77 <sub>114</sub>	38.553 <sub>66</sub>	51.78 <sub>157</sub>	16.883 <sub>72</sub>	51.96 <sub>169</sub>	36.925 <sub>56</sub>	37.75 <sub>61</sub>
27.1	29.136 <sub>11</sub>	67.63 <sub>137</sub>	38.487 <sub>21</sub>	50.21 <sub>185</sub>	16.811 <sub>27</sub>	50.27 <sub>197</sub>	36.869 <sub>11</sub>	38.36 <sub>81</sub>
Nov. 6.0	29.125 <sub>37</sub>	66.26 <sub>161</sub>	38.466 <sub>28</sub>	48.36 <sub>209</sub>	16.784 <sub>23</sub>	48.30 <sub>223</sub>	36.858 <sub>38</sub>	39.17 <sub>103</sub>
16.0	29.162 <sub>87</sub>	64.65 <sub>181</sub>	38.494 <sub>78</sub>	46.27 <sub>229</sub>	16.807 <sub>74</sub>	46.07 <sub>242</sub>	36.896 <sub>88</sub>	40.20 <sub>122</sub>
26.0	29.249 <sub>136</sub>	62.84 <sub>198</sub>	38.572 <sub>129</sub>	43.98 <sub>244</sub>	16.881 <sub>125</sub>	43.65 <sub>257</sub>	36.984 <sub>137</sub>	41.42 <sub>141</sub>
Dez. 5.9	29.385 <sub>182</sub>	60.86 <sub>210</sub>	38.701 <sub>177</sub>	41.54 <sub>254</sub>	17.006 <sub>172</sub>	41.08 <sub>266</sub>	37.121 <sub>183</sub>	42.83 <sub>157</sub>
15.9	29.567 <sub>222</sub>	58.76 <sub>216</sub>	38.878 <sub>218</sub>	39.00 <sub>255</sub>	17.178 <sub>216</sub>	38.42 <sub>265</sub>	37.304 <sub>224</sub>	44.40 <sub>168</sub>
25.9	29.789 <sub>256</sub>	56.60 <sub>216</sub>	39.096 <sub>253</sub>	36.45 <sub>248</sub>	17.394 <sub>252</sub>	35.77 <sub>258</sub>	37.528 <sub>256</sub>	46.08 <sub>174</sub>
35.9	30.045	54.44	39.349	33.97	17.646	33.19	37.784	47.82
Mittl. Ort sec $\delta$ , tg $\delta$	28.428 1.007	60.79 +0.117	37.988 1.039	42.45 +0.280	16.387 1.054	42.09 +0.333	35.976 1.002	44.39 -0.056



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	590) ζ Ursae min.		588) ε Serpentis		589) β Triang. austr.		593) ε Coron. bor.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	15 <sup>h</sup> 46 <sup>m</sup>	+78° 1'	15 <sup>h</sup> 46 <sup>m</sup>	+4° 42'	15 <sup>h</sup> 48 <sup>m</sup>	-63° 11'	15 <sup>h</sup> 54 <sup>m</sup>	+27° 5'
Jan. 0.9	39.92 <sub>76</sub>	50.19 <sub>286</sub>	57.451 <sub>267</sub>	36.41 <sub>201</sub>	18.91 <sub>54</sub>	20.56 <sub>87</sub>	22.522 <sub>268</sub>	61.01 <sub>270</sub>
10.9	40.68 <sub>91</sub>	47.33 <sub>237</sub>	57.718 <sub>288</sub>	34.40 <sub>190</sub>	19.45 <sub>58</sub>	19.69 <sub>44</sub>	22.790 <sub>294</sub>	58.31 <sub>242</sub>
20.8	41.59 <sub>101</sub>	44.96 <sub>180</sub>	58.006 <sub>299</sub>	32.50 <sub>173</sub>	20.03 <sub>61</sub>	19.25 <sub>1</sub>	23.084 <sub>311</sub>	55.89 <sub>206</sub>
30.8	42.60 <sub>109</sub>	43.16 <sub>116</sub>	58.305 <sub>302</sub>	30.77 <sub>149</sub>	20.64 <sub>61</sub>	19.24 <sub>41</sub>	23.395 <sub>319</sub>	53.83 <sub>162</sub>
Feb. 9.8	43.69 <sub>111</sub>	42.00 <sub>50</sub>	58.607 <sub>299</sub>	29.28 <sub>119</sub>	21.25 <sub>62</sub>	19.65 <sub>81</sub>	23.714 <sub>318</sub>	52.21 <sub>113</sub>
19.7	44.80 <sub>110</sub>	41.50 <sub>18</sub>	58.906 <sub>288</sub>	28.09 <sub>87</sub>	21.87 <sub>60</sub>	20.46 <sub>118</sub>	24.032 <sub>310</sub>	51.08 <sub>61</sub>
März 1.7	45.90 <sub>105</sub>	41.68 <sub>84</sub>	59.194 <sub>272</sub>	27.22 <sub>52</sub>	22.47 <sub>57</sub>	21.64 <sub>151</sub>	24.342 <sub>295</sub>	50.47 <sub>8</sub>
11.7	46.95 <sub>97</sub>	42.52 <sub>146</sub>	59.466 <sub>254</sub>	26.70 <sub>18</sub>	23.04 <sub>54</sub>	23.15 <sub>179</sub>	24.637 <sub>275</sub>	50.39 <sub>44</sub>
21.7	47.92 <sub>85</sub>	43.98 <sub>201</sub>	59.720 <sub>231</sub>	26.52 <sub>16</sub>	23.58 <sub>49</sub>	24.94 <sub>203</sub>	24.912 <sub>250</sub>	50.83 <sub>92</sub>
31.6	48.77 <sub>71</sub>	45.99 <sub>247</sub>	59.951 <sub>208</sub>	26.68 <sub>46</sub>	24.07 <sub>45</sub>	26.97 <sub>224</sub>	25.162 <sub>223</sub>	51.75 <sub>136</sub>
Apr. 10.6	49.48 <sub>54</sub>	48.46 <sub>282</sub>	60.159 <sub>182</sub>	27.14 <sub>73</sub>	24.52 <sub>39</sub>	29.21 <sub>238</sub>	25.385 <sub>193</sub>	53.11 <sub>170</sub>
20.6	50.02 <sub>38</sub>	51.28 <sub>307</sub>	60.341 <sub>155</sub>	27.87 <sub>93</sub>	24.91 <sub>33</sub>	31.59 <sub>249</sub>	25.578 <sub>160</sub>	54.81 <sub>200</sub>
30.6	50.40 <sub>18</sub>	54.35 <sub>321</sub>	60.496 <sub>127</sub>	28.80 <sub>110</sub>	25.24 <sub>26</sub>	34.08 <sub>255</sub>	25.738 <sub>127</sub>	56.81 <sub>219</sub>
Mai 10.5	50.58 <sub>1</sub>	57.56 <sub>323</sub>	60.623 <sub>97</sub>	29.90 <sub>121</sub>	25.50 <sub>20</sub>	36.63 <sub>256</sub>	25.865 <sub>92</sub>	59.00 <sub>230</sub>
20.5	50.59 <sub>18</sub>	60.79 <sub>315</sub>	60.720 <sub>68</sub>	31.11 <sub>126</sub>	25.70 <sub>12</sub>	39.19 <sub>252</sub>	25.957 <sub>57</sub>	61.30 <sub>234</sub>
30.5	50.41 <sub>34</sub>	63.94 <sub>297</sub>	60.788 <sub>37</sub>	32.37 <sub>127</sub>	25.82 <sub>5</sub>	41.71 <sub>241</sub>	26.014 <sub>21</sub>	63.64 <sub>230</sub>
Juni 9.4	50.07 <sub>51</sub>	66.91 <sub>270</sub>	60.825 <sub>5</sub>	33.64 <sub>124</sub>	25.87 <sub>3</sub>	44.12 <sub>226</sub>	26.035 <sub>16</sub>	65.94 <sub>218</sub>
19.4	49.56 <sub>65</sub>	69.61 <sub>237</sub>	60.830 <sub>27</sub>	34.88 <sub>118</sub>	25.84 <sub>10</sub>	46.38 <sub>204</sub>	26.019 <sub>50</sub>	68.12 <sub>201</sub>
29.4	48.91 <sub>77</sub>	71.98 <sub>197</sub>	60.803 <sub>57</sub>	36.06 <sub>107</sub>	25.74 <sub>18</sub>	48.42 <sub>178</sub>	25.969 <sub>84</sub>	70.13 <sub>179</sub>
Juli 9.4	48.14 <sub>89</sub>	73.95 <sub>151</sub>	60.746 <sub>86</sub>	37.13 <sub>95</sub>	25.56 <sub>23</sub>	50.20 <sub>147</sub>	25.885 <sub>115</sub>	71.92 <sub>151</sub>
19.3	47.25 <sub>97</sub>	75.46 <sub>104</sub>	60.660 <sub>112</sub>	38.08 <sub>80</sub>	25.33 <sub>30</sub>	51.67 <sub>110</sub>	25.770 <sub>144</sub>	73.43 <sub>122</sub>
29.3	46.28 <sub>103</sub>	76.50 <sub>53</sub>	60.548 <sub>135</sub>	38.88 <sub>65</sub>	25.03 <sub>35</sub>	52.77 <sub>70</sub>	25.626 <sub>168</sub>	74.65 <sub>88</sub>
Aug. 8.3	45.25 <sub>108</sub>	77.03 <sub>0</sub>	60.413 <sub>152</sub>	39.53 <sub>48</sub>	24.68 <sub>38</sub>	53.47 <sub>27</sub>	25.458 <sub>187</sub>	75.53 <sub>53</sub>
18.3	44.17 <sub>108</sub>	77.03 <sub>51</sub>	60.261 <sub>164</sub>	40.01 <sub>29</sub>	24.30 <sub>41</sub>	53.74 <sub>16</sub>	25.271 <sub>199</sub>	76.06 <sub>16</sub>
28.2	43.09 <sub>108</sub>	76.52 <sub>104</sub>	60.097 <sub>168</sub>	40.30 <sub>10</sub>	23.89 <sub>41</sub>	53.58 <sub>61</sub>	25.072 <sub>203</sub>	76.22 <sub>21</sub>
Sept. 7.2	42.01 <sub>104</sub>	75.48 <sub>153</sub>	59.929 <sub>164</sub>	40.40 <sub>11</sub>	23.48 <sub>39</sub>	52.97 <sub>104</sub>	24.869 <sub>199</sub>	76.01 <sub>59</sub>
17.2	40.97 <sub>98</sub>	73.95 <sub>200</sub>	59.765 <sub>151</sub>	40.29 <sub>32</sub>	23.09 <sub>36</sub>	51.93 <sub>143</sub>	24.670 <sub>186</sub>	75.42 <sub>96</sub>
27.1	39.99 <sub>88</sub>	71.95 <sub>245</sub>	59.614 <sub>128</sub>	39.97 <sub>55</sub>	22.73 <sub>30</sub>	50.50 <sub>178</sub>	24.484 <sub>164</sub>	74.46 <sub>134</sub>
Okt. 7.1	39.11 <sub>77</sub>	69.50 <sub>284</sub>	59.486 <sub>98</sub>	39.42 <sub>77</sub>	22.43 <sub>24</sub>	48.72 <sub>205</sub>	24.320 <sub>132</sub>	73.12 <sub>169</sub>
17.1	38.34 <sub>64</sub>	66.66 <sub>318</sub>	59.388 <sub>61</sub>	38.65 <sub>102</sub>	22.19 <sub>15</sub>	46.67 <sub>224</sub>	24.188 <sub>94</sub>	71.43 <sub>203</sub>
27.1	37.70 <sub>47</sub>	63.48 <sub>345</sub>	59.327 <sub>16</sub>	37.63 <sub>125</sub>	22.04 <sub>6</sub>	44.43 <sub>235</sub>	24.094 <sub>48</sub>	69.40 <sub>233</sub>
Nov. 6.0	37.23 <sub>30</sub>	60.03 <sub>365</sub>	59.311 <sub>32</sub>	36.38 <sub>148</sub>	21.98 <sub>5</sub>	42.08 <sub>236</sub>	24.046 <sub>3</sub>	67.07 <sub>259</sub>
16.0	36.93 <sub>10</sub>	56.38 <sub>376</sub>	59.343 <sub>82</sub>	34.90 <sub>168</sub>	22.03 <sub>14</sub>	39.72 <sub>226</sub>	24.049 <sub>57</sub>	64.48 <sub>280</sub>
26.0	36.83 <sub>10</sub>	52.62 <sub>377</sub>	59.425 <sub>131</sub>	33.22 <sub>186</sub>	22.17 <sub>26</sub>	37.46 <sub>209</sub>	24.106 <sub>111</sub>	61.68 <sub>294</sub>
Dez. 6.0	36.93 <sub>30</sub>	48.85 <sub>367</sub>	59.556 <sub>177</sub>	31.36 <sub>199</sub>	22.43 <sub>34</sub>	35.37 <sub>181</sub>	24.217 <sub>161</sub>	58.74 <sub>301</sub>
15.9	37.23 <sub>49</sub>	45.18 <sub>346</sub>	59.733 <sub>218</sub>	29.37 <sub>206</sub>	22.77 <sub>44</sub>	33.56 <sub>149</sub>	24.378 <sub>209</sub>	55.73 <sub>297</sub>
25.9	37.72 <sub>67</sub>	41.72 <sub>313</sub>	59.951 <sub>251</sub>	27.31 <sub>207</sub>	23.21 <sub>50</sub>	32.07 <sub>110</sub>	24.587 <sub>248</sub>	52.76 <sub>285</sub>
35.9	38.39	38.59	60.202	25.24	23.71	30.97	24.835	49.91
Mittl. Ort sec δ, tg δ	46.39 4.822	55.50 +4.718	58.567 1.003	30.48 +0.082	20.59 2.217	40.63 -1.979	23.923 1.123	59.69 +0.512

Mittlere Zeit Greenw.	594) $\delta$ Scorpii		598) $\theta$ Draconis		597) $\beta$ Scorpii		603) $\delta$ Ophiuchi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	15 <sup>h</sup> 55 <sup>m</sup>	-22° 24'	16 <sup>h</sup> 0 <sup>m</sup>	+58° 46'	16 <sup>h</sup> 0 <sup>m</sup>	-19° 35'	16 <sup>h</sup> 10 <sup>m</sup>	-3° 29'
Jan. 0.9	45.531 <sup>291</sup>	1.50 <sup>85</sup>	24.038 <sup>353</sup>	10.85 <sup>311</sup>	56.272 <sup>282</sup>	33.60 <sup>95</sup>	17.352 <sup>256</sup>	41.75 <sup>165</sup>
10.9	45.822 <sup>312</sup>	2.35 <sup>98</sup>	24.391 <sup>408</sup>	7.74 <sup>268</sup>	56.554 <sup>304</sup>	34.55 <sup>105</sup>	17.608 <sup>279</sup>	43.40 <sup>161</sup>
20.8	46.134 <sup>324</sup>	3.33 <sup>107</sup>	24.799 <sup>448</sup>	5.06 <sup>216</sup>	56.858 <sup>317</sup>	35.60 <sup>112</sup>	17.887 <sup>293</sup>	45.01 <sup>151</sup>
30.8	46.458 <sup>329</sup>	4.40 <sup>111</sup>	25.247 <sup>474</sup>	2.90 <sup>156</sup>	57.175 <sup>322</sup>	36.72 <sup>112</sup>	18.180 <sup>300</sup>	46.52 <sup>137</sup>
Feb. 9.8	46.787 <sup>335</sup>	5.51 <sup>111</sup>	25.721 <sup>484</sup>	1.34 <sup>91</sup>	57.497 <sup>319</sup>	37.84 <sup>109</sup>	18.480 <sup>299</sup>	47.89 <sup>116</sup>
19.8	47.112 <sup>315</sup>	6.62 <sup>106</sup>	26.205 <sup>479</sup>	0.43 <sup>24</sup>	57.816 <sup>311</sup>	38.93 <sup>103</sup>	18.779 <sup>293</sup>	49.05 <sup>92</sup>
März 1.7	47.427 <sup>300</sup>	7.68 <sup>101</sup>	26.684 <sup>461</sup>	0.19 <sup>44</sup>	58.127 <sup>297</sup>	39.96 <sup>92</sup>	19.072 <sup>281</sup>	49.97 <sup>66</sup>
11.7	47.727 <sup>282</sup>	8.69 <sup>91</sup>	27.145 <sup>429</sup>	0.63 <sup>107</sup>	58.424 <sup>279</sup>	40.88 <sup>82</sup>	19.353 <sup>266</sup>	50.63 <sup>38</sup>
21.7	48.009 <sup>261</sup>	9.60 <sup>82</sup>	27.574 <sup>387</sup>	1.70 <sup>166</sup>	58.703 <sup>259</sup>	41.70 <sup>68</sup>	19.619 <sup>248</sup>	51.01 <sup>11</sup>
31.6	48.270 <sup>238</sup>	10.42 <sup>70</sup>	27.961 <sup>336</sup>	3.36 <sup>217</sup>	58.962 <sup>237</sup>	42.38 <sup>56</sup>	19.867 <sup>227</sup>	51.12 <sup>14</sup>
Apr. 10.6	48.508 <sup>212</sup>	11.12 <sup>60</sup>	28.297 <sup>278</sup>	5.53 <sup>259</sup>	59.199 <sup>213</sup>	42.94 <sup>44</sup>	20.094 <sup>203</sup>	50.98 <sup>36</sup>
20.6	48.720 <sup>184</sup>	11.72 <sup>51</sup>	28.575 <sup>216</sup>	8.12 <sup>290</sup>	59.412 <sup>186</sup>	43.38 <sup>34</sup>	20.297 <sup>179</sup>	50.62 <sup>34</sup>
30.6	48.904 <sup>157</sup>	12.23 <sup>43</sup>	28.791 <sup>149</sup>	11.02 <sup>310</sup>	59.598 <sup>158</sup>	43.72 <sup>24</sup>	20.476 <sup>153</sup>	50.08 <sup>70</sup>
Mai 10.5	49.061 <sup>125</sup>	12.66 <sup>35</sup>	28.940 <sup>82</sup>	14.12 <sup>320</sup>	59.756 <sup>128</sup>	43.96 <sup>17</sup>	20.629 <sup>124</sup>	49.38 <sup>79</sup>
20.5	49.186 <sup>93</sup>	13.01 <sup>28</sup>	29.022 <sup>15</sup>	17.32 <sup>319</sup>	59.884 <sup>96</sup>	44.13 <sup>10</sup>	20.753 <sup>95</sup>	48.59 <sup>86</sup>
30.5	49.279 <sup>59</sup>	13.29 <sup>22</sup>	29.037 <sup>53</sup>	20.51 <sup>308</sup>	59.980 <sup>63</sup>	44.23 <sup>5</sup>	20.848 <sup>62</sup>	47.73 <sup>89</sup>
Juni 9.5	49.338 <sup>24</sup>	13.51 <sup>16</sup>	28.984 <sup>116</sup>	23.59 <sup>288</sup>	60.043 <sup>29</sup>	44.28 <sup>1</sup>	20.910 <sup>30</sup>	46.84 <sup>89</sup>
19.4	49.362 <sup>12</sup>	13.67 <sup>11</sup>	28.868 <sup>177</sup>	26.47 <sup>261</sup>	60.072 <sup>7</sup>	44.29 <sup>4</sup>	20.940 <sup>4</sup>	45.95 <sup>84</sup>
29.4	49.350 <sup>47</sup>	13.78 <sup>4</sup>	28.691 <sup>232</sup>	29.08 <sup>225</sup>	60.065 <sup>43</sup>	44.25 <sup>8</sup>	20.936 <sup>37</sup>	45.11 <sup>80</sup>
Juli 9.4	49.303 <sup>80</sup>	13.82 <sup>2</sup>	28.459 <sup>282</sup>	31.33 <sup>187</sup>	60.022 <sup>75</sup>	44.17 <sup>12</sup>	20.899 <sup>69</sup>	44.31 <sup>73</sup>
19.3	49.223 <sup>112</sup>	13.80 <sup>10</sup>	28.177 <sup>325</sup>	33.20 <sup>141</sup>	59.947 <sup>107</sup>	44.05 <sup>17</sup>	20.830 <sup>99</sup>	43.58 <sup>64</sup>
29.3	49.111 <sup>139</sup>	13.70 <sup>18</sup>	27.852 <sup>360</sup>	34.61 <sup>94</sup>	59.840 <sup>134</sup>	43.88 <sup>22</sup>	20.731 <sup>125</sup>	42.94 <sup>54</sup>
Aug. 8.3	48.972 <sup>159</sup>	13.52 <sup>26</sup>	27.492 <sup>385</sup>	35.55 <sup>41</sup>	59.706 <sup>156</sup>	43.66 <sup>27</sup>	20.606 <sup>147</sup>	42.40 <sup>45</sup>
18.3	48.813 <sup>175</sup>	13.26 <sup>33</sup>	27.107 <sup>399</sup>	35.99 <sup>7</sup>	59.550 <sup>170</sup>	43.39 <sup>32</sup>	20.459 <sup>163</sup>	41.95 <sup>33</sup>
28.2	48.638 <sup>180</sup>	12.93 <sup>40</sup>	26.708 <sup>404</sup>	35.92 <sup>59</sup>	59.380 <sup>177</sup>	43.07 <sup>36</sup>	20.296 <sup>170</sup>	41.62 <sup>21</sup>
Sept. 7.2	48.458 <sup>176</sup>	12.53 <sup>46</sup>	26.304 <sup>395</sup>	35.33 <sup>109</sup>	59.203 <sup>176</sup>	42.71 <sup>39</sup>	20.126 <sup>169</sup>	41.41 <sup>9</sup>
17.2	48.282 <sup>163</sup>	12.07 <sup>50</sup>	25.909 <sup>373</sup>	34.24 <sup>159</sup>	59.027 <sup>162</sup>	42.32 <sup>40</sup>	19.957 <sup>160</sup>	41.32 <sup>6</sup>
27.2	48.119 <sup>140</sup>	11.57 <sup>50</sup>	25.536 <sup>341</sup>	32.65 <sup>206</sup>	58.865 <sup>140</sup>	41.92 <sup>38</sup>	19.797 <sup>140</sup>	41.38 <sup>21</sup>
Okt. 7.1	47.979 <sup>106</sup>	11.07 <sup>47</sup>	25.195 <sup>293</sup>	30.59 <sup>250</sup>	58.725 <sup>109</sup>	41.54 <sup>34</sup>	19.657 <sup>113</sup>	41.59 <sup>38</sup>
17.1	47.873 <sup>65</sup>	10.60 <sup>40</sup>	24.902 <sup>235</sup>	28.09 <sup>289</sup>	58.616 <sup>68</sup>	41.20 <sup>25</sup>	19.544 <sup>76</sup>	41.97 <sup>57</sup>
27.1	47.808 <sup>16</sup>	10.20 <sup>30</sup>	24.667 <sup>167</sup>	25.20 <sup>322</sup>	58.548 <sup>21</sup>	40.95 <sup>14</sup>	19.468 <sup>34</sup>	42.54 <sup>76</sup>
Nov. 6.0	47.792 <sup>36</sup>	9.90 <sup>16</sup>	24.500 <sup>90</sup>	21.98 <sup>349</sup>	58.527 <sup>30</sup>	40.81 <sup>0</sup>	19.434 <sup>15</sup>	43.30 <sup>95</sup>
16.0	47.828 <sup>91</sup>	9.74 <sup>1</sup>	24.410 <sup>7</sup>	18.49 <sup>367</sup>	58.557 <sup>83</sup>	40.81 <sup>18</sup>	19.449 <sup>64</sup>	44.25 <sup>115</sup>
26.0	47.919 <sup>143</sup>	9.75 <sup>21</sup>	24.403 <sup>77</sup>	14.82 <sup>376</sup>	58.640 <sup>136</sup>	40.99 <sup>37</sup>	19.513 <sup>114</sup>	45.40 <sup>133</sup>
Dez. 6.0	48.062 <sup>194</sup>	9.96 <sup>40</sup>	24.480 <sup>162</sup>	11.06 <sup>373</sup>	58.776 <sup>185</sup>	41.36 <sup>55</sup>	19.627 <sup>160</sup>	46.73 <sup>149</sup>
15.9	48.256 <sup>238</sup>	10.36 <sup>60</sup>	24.642 <sup>243</sup>	7.33 <sup>361</sup>	58.961 <sup>229</sup>	41.91 <sup>74</sup>	19.787 <sup>203</sup>	48.22 <sup>159</sup>
25.9	48.494 <sup>273</sup>	10.96 <sup>78</sup>	24.885 <sup>315</sup>	3.72 <sup>334</sup>	59.190 <sup>265</sup>	42.65 <sup>89</sup>	19.990 <sup>239</sup>	49.81 <sup>166</sup>
35.9	48.767	11.74	25.200	0.38	59.455	43.54	20.229	51.47
Mittl. Ort sec $\delta$ , tg $\delta$	46.609 1.082	13.87 -0.412	26.644 1.929	13.84 +1.649	57.372 1.061	45.32 -0.356	18.511 1.002	50.01 -0.061

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	606) 19 Ursae min.		604) $\gamma^2$ Normae		605) $\varepsilon$ Ophiuchi		608) $\tau$ Herculis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	16 <sup>h</sup> 12 <sup>m</sup>	+76° 4'	16 <sup>h</sup> 14 <sup>m</sup>	-49° 57'	16 <sup>h</sup> 14 <sup>m</sup>	-4° 30'	16 <sup>h</sup> 17 <sup>m</sup>	+46° 29'
Jan. 0.9	54.14 <sup>59</sup>	16.31 <sup>309</sup>	2.684 <sup>376</sup>	47.92 <sup>59</sup>	13.529 <sup>254</sup>	13.12 <sup>158</sup>	23.550 <sup>279</sup>	45.27 <sup>314</sup>
10.9	54.73 <sup>72</sup>	13.22 <sup>267</sup>	3.060 <sup>413</sup>	47.33 <sup>28</sup>	13.783 <sup>278</sup>	14.70 <sup>156</sup>	23.829 <sup>320</sup>	42.13 <sup>280</sup>
20.8	55.45 <sup>83</sup>	10.55 <sup>214</sup>	3.473 <sup>435</sup>	47.05 <sup>4</sup>	14.061 <sup>292</sup>	16.26 <sup>147</sup>	24.149 <sup>352</sup>	39.33 <sup>233</sup>
30.8	56.28 <sup>91</sup>	8.41 <sup>153</sup>	3.908 <sup>447</sup>	47.09 <sup>34</sup>	14.353 <sup>301</sup>	17.73 <sup>133</sup>	24.501 <sup>372</sup>	37.00 <sup>180</sup>
Feb. 9.8	57.19 <sup>95</sup>	6.88 <sup>88</sup>	4.355 <sup>449</sup>	47.43 <sup>62</sup>	14.654 <sup>299</sup>	19.06 <sup>114</sup>	24.873 <sup>381</sup>	35.20 <sup>120</sup>
19.8	58.14 <sup>96</sup>	6.00 <sup>20</sup>	4.804 <sup>443</sup>	48.05 <sup>87</sup>	14.953 <sup>294</sup>	20.20 <sup>92</sup>	25.254 <sup>379</sup>	34.00 <sup>58</sup>
März 1.7	59.10 <sup>94</sup>	5.80 <sup>47</sup>	5.247 <sup>427</sup>	48.92 <sup>109</sup>	15.247 <sup>283</sup>	21.12 <sup>65</sup>	25.633 <sup>369</sup>	33.42 <sup>8</sup>
11.7	60.04 <sup>89</sup>	6.27 <sup>112</sup>	5.674 <sup>407</sup>	50.01 <sup>129</sup>	15.530 <sup>269</sup>	21.77 <sup>40</sup>	26.002 <sup>348</sup>	33.50 <sup>69</sup>
21.7	60.93 <sup>80</sup>	7.39 <sup>171</sup>	6.081 <sup>382</sup>	51.30 <sup>144</sup>	15.799 <sup>250</sup>	22.17 <sup>13</sup>	26.350 <sup>320</sup>	34.19 <sup>128</sup>
31.7	61.73 <sup>69</sup>	9.10 <sup>222</sup>	6.463 <sup>351</sup>	52.74 <sup>158</sup>	16.049 <sup>230</sup>	22.30 <sup>12</sup>	26.670 <sup>287</sup>	35.47 <sup>177</sup>
Apr. 10.6	62.42 <sup>56</sup>	11.32 <sup>264</sup>	6.814 <sup>318</sup>	54.32 <sup>168</sup>	16.279 <sup>208</sup>	22.18 <sup>32</sup>	26.957 <sup>248</sup>	37.26 <sup>224</sup>
20.6	62.98 <sup>42</sup>	13.06 <sup>295</sup>	7.132 <sup>279</sup>	56.00 <sup>176</sup>	16.487 <sup>183</sup>	21.86 <sup>51</sup>	27.205 <sup>206</sup>	39.50 <sup>258</sup>
30.6	63.40 <sup>27</sup>	16.91 <sup>316</sup>	7.411 <sup>238</sup>	57.76 <sup>181</sup>	16.670 <sup>157</sup>	21.35 <sup>65</sup>	27.411 <sup>159</sup>	42.08 <sup>282</sup>
Mai 10.5	63.67 <sup>12</sup>	20.07 <sup>325</sup>	7.649 <sup>193</sup>	59.57 <sup>182</sup>	16.827 <sup>129</sup>	20.70 <sup>76</sup>	27.570 <sup>112</sup>	44.90 <sup>297</sup>
20.5	63.79 <sup>5</sup>	23.32 <sup>324</sup>	7.842 <sup>144</sup>	61.39 <sup>181</sup>	16.956 <sup>99</sup>	19.94 <sup>82</sup>	27.682 <sup>63</sup>	47.87 <sup>302</sup>
30.5	63.74 <sup>19</sup>	26.56 <sup>313</sup>	7.986 <sup>93</sup>	63.20 <sup>176</sup>	17.055 <sup>67</sup>	19.12 <sup>84</sup>	27.745 <sup>12</sup>	50.89 <sup>296</sup>
Juni 9.5	63.55 <sup>34</sup>	29.69 <sup>292</sup>	8.079 <sup>39</sup>	64.96 <sup>166</sup>	17.122 <sup>34</sup>	18.28 <sup>85</sup>	27.758 <sup>37</sup>	53.85 <sup>282</sup>
19.4	63.21 <sup>47</sup>	32.61 <sup>264</sup>	8.118 <sup>15</sup>	66.62 <sup>154</sup>	17.156 <sup>0</sup>	17.43 <sup>81</sup>	27.721 <sup>83</sup>	56.67 <sup>262</sup>
29.4	62.74 <sup>60</sup>	35.25 <sup>229</sup>	8.103 <sup>69</sup>	68.16 <sup>137</sup>	17.156 <sup>33</sup>	16.62 <sup>76</sup>	27.638 <sup>130</sup>	59.29 <sup>232</sup>
Juli 9.4	62.14 <sup>70</sup>	37.54 <sup>188</sup>	8.034 <sup>120</sup>	69.53 <sup>115</sup>	17.123 <sup>66</sup>	15.86 <sup>70</sup>	27.508 <sup>171</sup>	61.61 <sup>199</sup>
19.4	61.44 <sup>79</sup>	39.42 <sup>142</sup>	7.914 <sup>168</sup>	70.68 <sup>91</sup>	17.057 <sup>97</sup>	15.16 <sup>62</sup>	27.337 <sup>209</sup>	63.60 <sup>159</sup>
29.3	60.65 <sup>86</sup>	40.84 <sup>94</sup>	7.746 <sup>210</sup>	71.59 <sup>62</sup>	16.960 <sup>124</sup>	14.54 <sup>53</sup>	27.128 <sup>241</sup>	65.19 <sup>118</sup>
Aug. 8.3	59.79 <sup>92</sup>	41.78 <sup>43</sup>	7.536 <sup>242</sup>	72.21 <sup>31</sup>	16.836 <sup>146</sup>	14.01 <sup>44</sup>	26.887 <sup>267</sup>	66.37 <sup>71</sup>
18.3	58.87 <sup>94</sup>	42.21 <sup>9</sup>	7.294 <sup>266</sup>	72.52 <sup>2</sup>	16.690 <sup>162</sup>	13.57 <sup>34</sup>	26.620 <sup>283</sup>	67.08 <sup>25</sup>
28.2	57.93 <sup>95</sup>	42.12 <sup>61</sup>	7.028 <sup>277</sup>	72.50 <sup>35</sup>	16.528 <sup>170</sup>	13.23 <sup>23</sup>	26.337 <sup>292</sup>	67.33 <sup>23</sup>
Sept. 7.2	56.98 <sup>93</sup>	41.51 <sup>113</sup>	6.751 <sup>275</sup>	72.15 <sup>67</sup>	16.358 <sup>171</sup>	13.00 <sup>10</sup>	26.045 <sup>290</sup>	67.10 <sup>71</sup>
17.2	56.05 <sup>89</sup>	40.38 <sup>162</sup>	6.476 <sup>258</sup>	71.48 <sup>98</sup>	16.187 <sup>161</sup>	12.90 <sup>2</sup>	25.755 <sup>278</sup>	66.39 <sup>119</sup>
27.2	55.16 <sup>84</sup>	38.76 <sup>210</sup>	6.218 <sup>227</sup>	70.50 <sup>125</sup>	16.026 <sup>142</sup>	12.92 <sup>17</sup>	25.477 <sup>255</sup>	65.20 <sup>165</sup>
Okt. 7.1	54.32 <sup>73</sup>	36.66 <sup>253</sup>	5.991 <sup>183</sup>	69.25 <sup>148</sup>	15.884 <sup>115</sup>	13.09 <sup>33</sup>	25.222 <sup>220</sup>	63.55 <sup>209</sup>
17.1	53.59 <sup>64</sup>	34.13 <sup>291</sup>	5.808 <sup>127</sup>	67.77 <sup>162</sup>	15.769 <sup>79</sup>	13.42 <sup>51</sup>	25.002 <sup>177</sup>	61.46 <sup>250</sup>
27.1	52.95 <sup>50</sup>	31.22 <sup>325</sup>	5.681 <sup>61</sup>	66.15 <sup>172</sup>	15.690 <sup>36</sup>	13.93 <sup>69</sup>	24.825 <sup>125</sup>	58.96 <sup>286</sup>
Nov. 6.1	52.45 <sup>34</sup>	27.97 <sup>351</sup>	5.620 <sup>12</sup>	64.43 <sup>172</sup>	15.654 <sup>11</sup>	14.62 <sup>89</sup>	24.700 <sup>65</sup>	56.10 <sup>315</sup>
16.0	52.11 <sup>19</sup>	24.46 <sup>368</sup>	5.632 <sup>87</sup>	62.71 <sup>165</sup>	15.665 <sup>61</sup>	15.51 <sup>107</sup>	24.635 <sup>0</sup>	52.95 <sup>339</sup>
26.0	51.92 <sup>1</sup>	20.78 <sup>376</sup>	5.719 <sup>161</sup>	61.06 <sup>152</sup>	15.726 <sup>111</sup>	16.58 <sup>126</sup>	24.635 <sup>65</sup>	49.56 <sup>352</sup>
Dez. 6.0	51.91 <sup>16</sup>	17.02 <sup>374</sup>	5.880 <sup>233</sup>	59.54 <sup>130</sup>	15.837 <sup>158</sup>	17.84 <sup>141</sup>	24.700 <sup>131</sup>	46.04 <sup>358</sup>
15.9	52.07 <sup>34</sup>	13.28 <sup>359</sup>	6.113 <sup>296</sup>	58.24 <sup>106</sup>	15.995 <sup>201</sup>	19.25 <sup>152</sup>	24.831 <sup>193</sup>	42.46 <sup>351</sup>
25.9	52.41 <sup>49</sup>	9.69 <sup>334</sup>	6.409 <sup>349</sup>	57.18 <sup>76</sup>	16.196 <sup>237</sup>	20.77 <sup>159</sup>	25.024 <sup>249</sup>	38.95 <sup>333</sup>
35.9	52.90	6.35	6.758	56.42	16.433	22.36	25.273	35.62
Mittl. Ort sec <sup>a</sup> , tg $\delta$	59.86 4.155	19.31 +4.033	4.174 1.555	65.11 -1.190	14.699 1.003	21.64 -0.079	25.519 1.453	45.65 +1.054



Mittlere Zeit Greenw.	609) $\gamma$ Herculis		611) $\gamma$ Apodis		615) $\eta$ Draconis		616) $\alpha$ Scorpii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	16 <sup>h</sup> 18 <sup>m</sup>	+19° 19'	16 <sup>h</sup> 21 <sup>m</sup>	-78° 43'	16 <sup>h</sup> 22 <sup>m</sup>	+61° 41'	16 <sup>h</sup> 24 <sup>m</sup>	-26° 15'
Jan. 0.9	29.977 <sup>244</sup>	62.57 <sup>252</sup>	30.73 <sup>103</sup>	17.66 <sup>184</sup>	53.75 <sup>34</sup>	16.10 <sup>326</sup>	39.725 <sup>278</sup>	32.03 <sup>48</sup>
10.9	30.221 <sup>271</sup>	60.05 <sup>232</sup>	31.76 <sup>116</sup>	15.82 <sup>139</sup>	54.09 <sup>40</sup>	12.84 <sup>287</sup>	40.003 <sup>304</sup>	32.51 <sup>62</sup>
20.9	30.492 <sup>290</sup>	57.73 <sup>203</sup>	32.92 <sup>126</sup>	14.43 <sup>92</sup>	54.49 <sup>46</sup>	9.97 <sup>238</sup>	40.307 <sup>322</sup>	33.13 <sup>73</sup>
30.8	30.782 <sup>301</sup>	55.70 <sup>167</sup>	34.18 <sup>132</sup>	13.51 <sup>43</sup>	54.95 <sup>49</sup>	7.59 <sup>180</sup>	40.629 <sup>331</sup>	33.86 <sup>82</sup>
Feb. 9.8	31.083 <sup>304</sup>	54.03 <sup>126</sup>	35.50 <sup>135</sup>	13.08 <sup>7</sup>	55.44 <sup>52</sup>	5.79 <sup>115</sup>	40.960 <sup>333</sup>	34.68 <sup>85</sup>
19.8	31.387 <sup>300</sup>	52.77 <sup>80</sup>	36.85 <sup>135</sup>	13.15 <sup>53</sup>	55.96 <sup>52</sup>	4.64 <sup>49</sup>	41.293 <sup>329</sup>	35.53 <sup>85</sup>
März 1.7	31.687 <sup>289</sup>	51.97 <sup>32</sup>	38.20 <sup>132</sup>	13.68 <sup>100</sup>	56.48 <sup>50</sup>	4.15 <sup>20</sup>	41.622 <sup>318</sup>	36.38 <sup>84</sup>
11.7	31.976 <sup>275</sup>	51.65 <sup>15</sup>	39.52 <sup>127</sup>	14.68 <sup>141</sup>	56.98 <sup>49</sup>	4.35 <sup>86</sup>	41.940 <sup>304</sup>	37.22 <sup>80</sup>
21.7	32.251 <sup>255</sup>	51.80 <sup>60</sup>	40.79 <sup>119</sup>	16.09 <sup>179</sup>	57.47 <sup>44</sup>	5.21 <sup>147</sup>	42.244 <sup>287</sup>	38.02 <sup>74</sup>
31.7	32.506 <sup>234</sup>	52.40 <sup>101</sup>	41.98 <sup>108</sup>	17.88 <sup>213</sup>	57.91 <sup>39</sup>	6.68 <sup>202</sup>	42.531 <sup>267</sup>	38.76 <sup>67</sup>
Apr. 10.6	32.740 <sup>208</sup>	53.41 <sup>136</sup>	43.06 <sup>98</sup>	20.01 <sup>243</sup>	58.30 <sup>34</sup>	8.70 <sup>247</sup>	42.798 <sup>243</sup>	39.43 <sup>62</sup>
20.6	32.948 <sup>181</sup>	54.77 <sup>165</sup>	44.04 <sup>83</sup>	22.44 <sup>266</sup>	58.64 <sup>26</sup>	11.17 <sup>282</sup>	43.041 <sup>219</sup>	40.05 <sup>57</sup>
30.6	33.129 <sup>150</sup>	56.42 <sup>187</sup>	44.87 <sup>69</sup>	25.10 <sup>284</sup>	58.90 <sup>20</sup>	13.99 <sup>308</sup>	43.260 <sup>190</sup>	40.62 <sup>52</sup>
Mai 10.6	33.279 <sup>120</sup>	58.29 <sup>200</sup>	45.56 <sup>52</sup>	27.94 <sup>296</sup>	59.10 <sup>13</sup>	17.07 <sup>322</sup>	43.450 <sup>159</sup>	41.14 <sup>47</sup>
20.5	33.399 <sup>87</sup>	60.29 <sup>207</sup>	46.08 <sup>36</sup>	30.90 <sup>302</sup>	59.23 <sup>5</sup>	20.29 <sup>326</sup>	43.609 <sup>127</sup>	41.61 <sup>44</sup>
30.5	33.486 <sup>52</sup>	62.36 <sup>207</sup>	46.44 <sup>17</sup>	33.92 <sup>300</sup>	59.28 <sup>3</sup>	23.55 <sup>320</sup>	43.736 <sup>90</sup>	42.05 <sup>40</sup>
Juni 9.5	33.538 <sup>17</sup>	64.43 <sup>200</sup>	46.61 <sup>2</sup>	36.92 <sup>292</sup>	59.25 <sup>10</sup>	26.75 <sup>303</sup>	43.826 <sup>53</sup>	42.45 <sup>36</sup>
19.4	33.555 <sup>18</sup>	66.43 <sup>188</sup>	46.59 <sup>20</sup>	39.84 <sup>275</sup>	59.15 <sup>17</sup>	29.78 <sup>279</sup>	43.879 <sup>14</sup>	42.81 <sup>32</sup>
29.4	33.537 <sup>53</sup>	68.31 <sup>170</sup>	46.39 <sup>37</sup>	42.59 <sup>252</sup>	58.98 <sup>24</sup>	32.57 <sup>248</sup>	43.893 <sup>26</sup>	43.13 <sup>27</sup>
Juli 9.4	33.484 <sup>87</sup>	70.01 <sup>149</sup>	46.02 <sup>55</sup>	45.11 <sup>222</sup>	58.74 <sup>29</sup>	35.05 <sup>210</sup>	43.867 <sup>63</sup>	43.40 <sup>20</sup>
19.4	33.397 <sup>117</sup>	71.50 <sup>125</sup>	45.47 <sup>69</sup>	47.33 <sup>185</sup>	58.45 <sup>35</sup>	37.15 <sup>167</sup>	43.804 <sup>100</sup>	43.60 <sup>12</sup>
29.3	33.280 <sup>144</sup>	72.75 <sup>97</sup>	44.78 <sup>82</sup>	49.18 <sup>141</sup>	58.10 <sup>39</sup>	38.82 <sup>121</sup>	43.704 <sup>132</sup>	43.72 <sup>3</sup>
Aug. 8.3	33.136 <sup>167</sup>	73.72 <sup>68</sup>	43.96 <sup>93</sup>	50.59 <sup>94</sup>	57.71 <sup>42</sup>	40.03 <sup>71</sup>	43.572 <sup>158</sup>	43.75 <sup>7</sup>
18.3	32.969 <sup>183</sup>	74.40 <sup>37</sup>	43.03 <sup>98</sup>	51.53 <sup>91</sup>	57.29 <sup>45</sup>	40.74 <sup>21</sup>	43.414 <sup>179</sup>	43.68 <sup>16</sup>
28.3	32.786 <sup>191</sup>	74.77 <sup>5</sup>	42.05 <sup>102</sup>	51.94 <sup>12</sup>	56.84 <sup>45</sup>	40.95 <sup>32</sup>	43.235 <sup>189</sup>	43.52 <sup>28</sup>
Sept. 7.2	32.595 <sup>191</sup>	74.82 <sup>27</sup>	41.03 <sup>101</sup>	51.82 <sup>67</sup>	56.39 <sup>46</sup>	40.63 <sup>84</sup>	43.046 <sup>191</sup>	43.24 <sup>38</sup>
17.2	32.404 <sup>183</sup>	74.55 <sup>61</sup>	40.02 <sup>95</sup>	51.15 <sup>119</sup>	55.93 <sup>43</sup>	39.79 <sup>134</sup>	42.855 <sup>183</sup>	42.86 <sup>46</sup>
27.2	32.221 <sup>165</sup>	73.94 <sup>94</sup>	39.07 <sup>86</sup>	49.96 <sup>168</sup>	55.50 <sup>41</sup>	38.45 <sup>184</sup>	42.672 <sup>162</sup>	42.40 <sup>51</sup>
Okt. 7.1	32.056 <sup>138</sup>	73.00 <sup>127</sup>	38.21 <sup>72</sup>	48.28 <sup>211</sup>	55.09 <sup>36</sup>	36.61 <sup>230</sup>	42.510 <sup>132</sup>	41.89 <sup>55</sup>
17.1	31.918 <sup>102</sup>	71.73 <sup>158</sup>	37.49 <sup>56</sup>	46.17 <sup>247</sup>	54.73 <sup>30</sup>	34.31 <sup>272</sup>	42.378 <sup>93</sup>	41.34 <sup>54</sup>
27.1	31.816 <sup>60</sup>	70.15 <sup>188</sup>	36.93 <sup>35</sup>	43.70 <sup>272</sup>	54.43 <sup>23</sup>	31.59 <sup>309</sup>	42.285 <sup>45</sup>	40.80 <sup>49</sup>
Nov. 6.1	31.756 <sup>13</sup>	68.27 <sup>214</sup>	36.58 <sup>14</sup>	40.98 <sup>288</sup>	54.20 <sup>15</sup>	28.50 <sup>339</sup>	42.240 <sup>7</sup>	40.31 <sup>41</sup>
16.0	31.743 <sup>38</sup>	66.13 <sup>237</sup>	36.44 <sup>9</sup>	38.10 <sup>292</sup>	54.05 <sup>7</sup>	25.11 <sup>362</sup>	42.247 <sup>63</sup>	39.90 <sup>28</sup>
26.0	31.781 <sup>90</sup>	63.76 <sup>255</sup>	36.53 <sup>32</sup>	35.18 <sup>285</sup>	53.98 <sup>3</sup>	21.49 <sup>375</sup>	42.310 <sup>117</sup>	39.62 <sup>12</sup>
Dez. 6.0	31.871 <sup>139</sup>	61.21 <sup>265</sup>	36.85 <sup>55</sup>	32.33 <sup>268</sup>	54.01 <sup>12</sup>	17.74 <sup>377</sup>	42.427 <sup>170</sup>	39.50 <sup>5</sup>
16.0	32.010 <sup>184</sup>	58.56 <sup>268</sup>	37.40 <sup>75</sup>	29.65 <sup>242</sup>	54.13 <sup>20</sup>	13.97 <sup>369</sup>	42.597 <sup>218</sup>	39.55 <sup>23</sup>
25.9	32.194 <sup>224</sup>	55.88 <sup>262</sup>	38.15 <sup>92</sup>	27.23 <sup>206</sup>	54.33 <sup>30</sup>	10.28 <sup>347</sup>	42.815 <sup>258</sup>	39.78 <sup>41</sup>
35.9	32.418	53.26	39.07	25.17	54.63	6.81	43.073	40.19
Mittl. Ort sec $\delta$ , tg $\delta$	31.332 1.060	58.67 +0.351	35.40 5.116	37.63 -5.017	56.66 2.108	17.54 +1.856	40.964 1.115	44.84 -0.493

Mittlere Zeit Greenw.	618) β Hercules		619) A Draconis		621) σ Hercules		622) ζ Ophiuchi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	16 <sup>h</sup> 26 <sup>m</sup>	+21° 39'	16 <sup>h</sup> 28 <sup>m</sup>	+68° 55'	16 <sup>h</sup> 31 <sup>m</sup>	+42° 35'	16 <sup>h</sup> 32 <sup>m</sup>	-10° 24'
Jan. 0.9	53.134 <sup>237</sup>	26.80 <sup>261</sup>	3.67 <sup>40</sup>	63.74 <sup>327</sup>	35.352 <sup>254</sup>	43.26 <sup>315</sup>	53.782 <sup>246</sup>	34.67 <sup>124</sup>
10.9	53.371 <sup>267</sup>	24.19 <sup>239</sup>	4.07 <sup>49</sup>	60.47 <sup>287</sup>	35.606 <sup>294</sup>	40.11 <sup>282</sup>	54.028 <sup>272</sup>	35.91 <sup>126</sup>
20.9	53.638 <sup>288</sup>	21.80 <sup>210</sup>	4.56 <sup>56</sup>	57.60 <sup>238</sup>	35.900 <sup>325</sup>	37.29 <sup>242</sup>	54.300 <sup>290</sup>	37.17 <sup>122</sup>
30.8	53.926 <sup>300</sup>	19.70 <sup>173</sup>	5.12 <sup>62</sup>	55.22 <sup>180</sup>	36.225 <sup>347</sup>	34.87 <sup>192</sup>	54.590 <sup>299</sup>	38.39 <sup>115</sup>
Feb. 9.8	54.226 <sup>304</sup>	17.97 <sup>130</sup>	5.74 <sup>65</sup>	53.42 <sup>116</sup>	36.572 <sup>358</sup>	32.95 <sup>135</sup>	54.889 <sup>303</sup>	39.54 <sup>102</sup>
19.8	54.530 <sup>303</sup>	16.67 <sup>83</sup>	6.39 <sup>66</sup>	52.26 <sup>48</sup>	36.930 <sup>359</sup>	31.60 <sup>74</sup>	55.192 <sup>299</sup>	40.56 <sup>85</sup>
März 1.8	54.833 <sup>294</sup>	15.84 <sup>33</sup>	7.05 <sup>66</sup>	51.78 <sup>21</sup>	37.289 <sup>352</sup>	30.86 <sup>11</sup>	55.491 <sup>292</sup>	41.41 <sup>67</sup>
11.7	55.127 <sup>280</sup>	15.51 <sup>17</sup>	7.71 <sup>62</sup>	51.99 <sup>87</sup>	37.641 <sup>336</sup>	30.75 <sup>51</sup>	55.783 <sup>280</sup>	42.08 <sup>46</sup>
21.7	55.407 <sup>262</sup>	15.68 <sup>64</sup>	8.33 <sup>57</sup>	52.86 <sup>149</sup>	37.977 <sup>313</sup>	31.26 <sup>108</sup>	56.063 <sup>265</sup>	42.54 <sup>25</sup>
31.7	55.669 <sup>241</sup>	16.32 <sup>106</sup>	8.90 <sup>51</sup>	54.35 <sup>203</sup>	38.290 <sup>285</sup>	32.34 <sup>162</sup>	56.328 <sup>246</sup>	42.79 <sup>5</sup>
Apr. 10.6	55.910 <sup>216</sup>	17.38 <sup>143</sup>	9.41 <sup>43</sup>	56.38 <sup>250</sup>	38.575 <sup>251</sup>	33.96 <sup>206</sup>	56.574 <sup>227</sup>	42.84 <sup>12</sup>
20.6	56.126 <sup>188</sup>	18.81 <sup>174</sup>	9.84 <sup>34</sup>	58.88 <sup>285</sup>	38.826 <sup>214</sup>	36.02 <sup>243</sup>	56.801 <sup>203</sup>	42.72 <sup>27</sup>
30.6	56.314 <sup>159</sup>	20.55 <sup>196</sup>	10.18 <sup>24</sup>	61.73 <sup>312</sup>	39.040 <sup>173</sup>	38.45 <sup>269</sup>	57.004 <sup>179</sup>	42.45 <sup>38</sup>
Mai 10.6	56.473 <sup>127</sup>	22.51 <sup>212</sup>	10.42 <sup>15</sup>	64.85 <sup>325</sup>	39.213 <sup>129</sup>	41.14 <sup>287</sup>	57.183 <sup>150</sup>	42.07 <sup>47</sup>
20.5	56.600 <sup>93</sup>	24.63 <sup>219</sup>	10.57 <sup>4</sup>	68.10 <sup>329</sup>	39.342 <sup>84</sup>	44.01 <sup>295</sup>	57.333 <sup>121</sup>	41.60 <sup>53</sup>
30.5	56.693 <sup>58</sup>	26.82 <sup>219</sup>	10.61 <sup>6</sup>	71.39 <sup>323</sup>	39.426 <sup>38</sup>	46.96 <sup>292</sup>	57.454 <sup>87</sup>	41.07 <sup>55</sup>
Juni 9.5	56.751 <sup>22</sup>	29.01 <sup>213</sup>	10.55 <sup>15</sup>	74.62 <sup>307</sup>	39.464 <sup>9</sup>	49.88 <sup>282</sup>	57.541 <sup>54</sup>	40.52 <sup>56</sup>
19.5	56.773 <sup>14</sup>	31.14 <sup>200</sup>	10.40 <sup>26</sup>	77.69 <sup>282</sup>	39.455 <sup>55</sup>	52.70 <sup>263</sup>	57.595 <sup>19</sup>	39.96 <sup>54</sup>
29.4	56.759 <sup>51</sup>	33.14 <sup>182</sup>	10.14 <sup>33</sup>	80.51 <sup>251</sup>	39.400 <sup>100</sup>	55.33 <sup>239</sup>	57.614 <sup>18</sup>	39.42 <sup>52</sup>
Juli 9.4	56.708 <sup>85</sup>	34.96 <sup>160</sup>	9.81 <sup>42</sup>	83.02 <sup>213</sup>	39.300 <sup>141</sup>	57.72 <sup>207</sup>	57.596 <sup>53</sup>	38.90 <sup>47</sup>
19.4	56.623 <sup>118</sup>	36.56 <sup>135</sup>	9.39 <sup>48</sup>	85.15 <sup>169</sup>	39.159 <sup>180</sup>	59.79 <sup>171</sup>	57.543 <sup>87</sup>	38.43 <sup>44</sup>
29.3	56.505 <sup>146</sup>	37.91 <sup>105</sup>	8.91 <sup>54</sup>	86.84 <sup>123</sup>	38.979 <sup>214</sup>	61.50 <sup>131</sup>	57.456 <sup>117</sup>	37.99 <sup>39</sup>
Aug. 8.3	56.359 <sup>170</sup>	38.96 <sup>75</sup>	8.37 <sup>58</sup>	88.07 <sup>73</sup>	38.765 <sup>240</sup>	62.81 <sup>88</sup>	57.339 <sup>142</sup>	37.60 <sup>34</sup>
18.3	56.189 <sup>187</sup>	39.71 <sup>42</sup>	7.79 <sup>61</sup>	88.80 <sup>21</sup>	38.525 <sup>260</sup>	63.69 <sup>43</sup>	57.197 <sup>161</sup>	37.26 <sup>29</sup>
28.3	56.002 <sup>197</sup>	40.13 <sup>9</sup>	7.18 <sup>63</sup>	89.01 <sup>31</sup>	38.265 <sup>270</sup>	64.12 <sup>3</sup>	57.036 <sup>173</sup>	36.97 <sup>23</sup>
Sept. 7.2	55.805 <sup>198</sup>	40.22 <sup>27</sup>	6.55 <sup>62</sup>	88.70 <sup>83</sup>	37.995 <sup>273</sup>	64.09 <sup>50</sup>	56.863 <sup>177</sup>	36.74 <sup>18</sup>
17.2	55.607 <sup>191</sup>	39.95 <sup>62</sup>	5.93 <sup>59</sup>	87.87 <sup>135</sup>	37.722 <sup>263</sup>	63.59 <sup>96</sup>	56.686 <sup>169</sup>	36.56 <sup>10</sup>
27.2	55.416 <sup>174</sup>	39.33 <sup>95</sup>	5.34 <sup>56</sup>	86.52 <sup>184</sup>	37.459 <sup>244</sup>	62.63 <sup>143</sup>	56.517 <sup>154</sup>	36.46 <sup>1</sup>
Okt. 7.2	55.242 <sup>148</sup>	38.38 <sup>130</sup>	4.78 <sup>51</sup>	84.68 <sup>231</sup>	37.215 <sup>215</sup>	61.20 <sup>186</sup>	56.363 <sup>127</sup>	36.45 <sup>9</sup>
17.1	55.094 <sup>113</sup>	37.08 <sup>163</sup>	4.27 <sup>43</sup>	82.37 <sup>273</sup>	37.000 <sup>175</sup>	59.34 <sup>228</sup>	56.236 <sup>93</sup>	36.54 <sup>21</sup>
27.1	54.981 <sup>71</sup>	35.45 <sup>194</sup>	3.84 <sup>35</sup>	79.64 <sup>310</sup>	36.825 <sup>127</sup>	57.06 <sup>265</sup>	56.143 <sup>50</sup>	36.75 <sup>36</sup>
Nov. 6.1	54.910 <sup>24</sup>	33.51 <sup>223</sup>	3.49 <sup>25</sup>	76.54 <sup>340</sup>	36.698 <sup>71</sup>	54.41 <sup>296</sup>	56.093 <sup>4</sup>	37.11 <sup>51</sup>
16.0	54.886 <sup>27</sup>	31.28 <sup>245</sup>	3.24 <sup>13</sup>	73.14 <sup>363</sup>	36.627 <sup>11</sup>	51.45 <sup>322</sup>	56.089 <sup>46</sup>	37.62 <sup>69</sup>
26.0	54.913 <sup>79</sup>	28.83 <sup>263</sup>	3.11 <sup>±</sup>	69.51 <sup>376</sup>	36.616 <sup>51</sup>	48.23 <sup>339</sup>	56.135 <sup>97</sup>	38.31 <sup>84</sup>
Dez. 6.0	54.992 <sup>129</sup>	26.20 <sup>275</sup>	3.09 <sup>11</sup>	65.75 <sup>378</sup>	36.667 <sup>113</sup>	44.84 <sup>348</sup>	56.232 <sup>145</sup>	39.15 <sup>100</sup>
16.0	55.121 <sup>176</sup>	23.45 <sup>277</sup>	3.20 <sup>22</sup>	61.97 <sup>370</sup>	36.780 <sup>171</sup>	41.36 <sup>345</sup>	56.377 <sup>190</sup>	40.15 <sup>113</sup>
25.9	55.297 <sup>216</sup>	20.68 <sup>271</sup>	3.42 <sup>33</sup>	58.27 <sup>349</sup>	36.951 <sup>225</sup>	37.91 <sup>331</sup>	56.567 <sup>227</sup>	41.28 <sup>122</sup>
35.9	55.513	17.97	3.75	54.78	37.176	34.60	56.794	42.50
Mittl. Ort sec δ, tg δ	54.539 1.076	22.96 +0.397	7.54 2.782	65.18 +2.596	37.209 1.358	42.21 +0.919	55.010 1.017	44.46 -0.184

Mittlere Zeit Greenw.	626) $\eta$ Herculis		625) $\alpha$ Triang. austr.		627) Gr. 2377		628) $\epsilon$ Scorpil	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	16 <sup>h</sup> 40 <sup>m</sup>	+39° 3'	16 <sup>h</sup> 40 <sup>m</sup>	-68° 52'	16 <sup>h</sup> 43 <sup>m</sup>	+56° 54'	16 <sup>h</sup> 45 <sup>m</sup>	-34° 9'
Jan. 0.9	13.575 <sup>239</sup>	66.59 <sup>311</sup>	26.83 <sup>56</sup>	60.70 <sup>170</sup>	47.524 <sup>277</sup>	68.71 <sup>336</sup>	8.890 <sup>279</sup>	3.56 <sup>7</sup>
10.9	13.814 <sup>278</sup>	63.48 <sup>283</sup>	27.39 <sup>64</sup>	59.00 <sup>131</sup>	47.801 <sup>338</sup>	65.35 <sup>302</sup>	9.169 <sup>311</sup>	3.49 <sup>11</sup>
20.9	14.092 <sup>308</sup>	60.65 <sup>244</sup>	28.03 <sup>70</sup>	57.69 <sup>92</sup>	48.139 <sup>387</sup>	62.33 <sup>257</sup>	9.480 <sup>333</sup>	3.60 <sup>29</sup>
30.8	14.400 <sup>330</sup>	58.21 <sup>196</sup>	28.73 <sup>73</sup>	56.77 <sup>49</sup>	48.526 <sup>425</sup>	59.76 <sup>204</sup>	9.813 <sup>347</sup>	3.89 <sup>42</sup>
Feb. 9.8	14.730 <sup>341</sup>	56.25 <sup>143</sup>	29.46 <sup>76</sup>	56.28 <sup>7</sup>	48.951 <sup>447</sup>	57.72 <sup>143</sup>	10.160 <sup>354</sup>	4.31 <sup>54</sup>
19.8	15.071 <sup>344</sup>	54.82 <sup>83</sup>	30.22 <sup>76</sup>	56.21 <sup>33</sup>	49.398 <sup>456</sup>	56.29 <sup>77</sup>	10.514 <sup>353</sup>	4.85 <sup>63</sup>
März 1.8	15.415 <sup>338</sup>	53.99 <sup>23</sup>	30.98 <sup>75</sup>	56.54 <sup>72</sup>	49.854 <sup>453</sup>	55.52 <sup>10</sup>	10.867 <sup>346</sup>	5.48 <sup>70</sup>
11.7	15.753 <sup>325</sup>	53.76 <sup>37</sup>	31.73 <sup>73</sup>	57.26 <sup>109</sup>	50.307 <sup>437</sup>	55.42 <sup>57</sup>	11.213 <sup>335</sup>	6.18 <sup>74</sup>
21.7	16.078 <sup>306</sup>	54.13 <sup>96</sup>	32.46 <sup>69</sup>	58.35 <sup>143</sup>	50.744 <sup>410</sup>	55.99 <sup>119</sup>	11.548 <sup>320</sup>	6.92 <sup>77</sup>
31.7	16.384 <sup>280</sup>	55.09 <sup>147</sup>	33.15 <sup>64</sup>	59.78 <sup>172</sup>	51.154 <sup>372</sup>	57.18 <sup>177</sup>	11.868 <sup>301</sup>	7.69 <sup>79</sup>
Apr. 10.6	16.664 <sup>251</sup>	56.56 <sup>193</sup>	33.79 <sup>59</sup>	61.50 <sup>199</sup>	51.526 <sup>327</sup>	58.95 <sup>225</sup>	12.169 <sup>279</sup>	8.48 <sup>81</sup>
20.6	16.915 <sup>217</sup>	58.49 <sup>229</sup>	34.38 <sup>53</sup>	63.49 <sup>221</sup>	51.853 <sup>274</sup>	61.20 <sup>266</sup>	12.448 <sup>254</sup>	9.29 <sup>82</sup>
30.6	17.132 <sup>179</sup>	60.78 <sup>258</sup>	34.91 <sup>44</sup>	65.70 <sup>238</sup>	52.127 <sup>217</sup>	63.86 <sup>295</sup>	12.702 <sup>225</sup>	10.11 <sup>83</sup>
Mai 10.6	17.311 <sup>139</sup>	63.36 <sup>276</sup>	35.35 <sup>37</sup>	68.08 <sup>252</sup>	52.344 <sup>156</sup>	66.81 <sup>315</sup>	12.927 <sup>192</sup>	10.94 <sup>83</sup>
20.5	17.450 <sup>97</sup>	66.12 <sup>286</sup>	35.72 <sup>28</sup>	70.60 <sup>259</sup>	52.500 <sup>91</sup>	69.96 <sup>323</sup>	13.119 <sup>157</sup>	11.77 <sup>84</sup>
30.5	17.547 <sup>53</sup>	68.98 <sup>285</sup>	36.00 <sup>18</sup>	73.19 <sup>260</sup>	52.591 <sup>26</sup>	73.19 <sup>322</sup>	13.276 <sup>117</sup>	12.61 <sup>83</sup>
Juni 9.5	17.600 <sup>9</sup>	71.83 <sup>277</sup>	36.18 <sup>8</sup>	75.79 <sup>256</sup>	52.617 <sup>40</sup>	76.41 <sup>312</sup>	13.393 <sup>77</sup>	13.44 <sup>80</sup>
19.5	17.609 <sup>36</sup>	74.60 <sup>260</sup>	36.26 <sup>2</sup>	78.35 <sup>246</sup>	52.577 <sup>102</sup>	79.53 <sup>292</sup>	13.470 <sup>32</sup>	14.24 <sup>76</sup>
29.4	17.573 <sup>80</sup>	77.20 <sup>238</sup>	36.24 <sup>12</sup>	80.81 <sup>228</sup>	52.475 <sup>163</sup>	82.45 <sup>265</sup>	13.502 <sup>12</sup>	15.00 <sup>69</sup>
Juli 9.4	17.493 <sup>121</sup>	79.58 <sup>208</sup>	36.12 <sup>22</sup>	83.09 <sup>204</sup>	52.312 <sup>220</sup>	85.10 <sup>231</sup>	13.490 <sup>55</sup>	15.69 <sup>62</sup>
19.4	17.372 <sup>159</sup>	81.66 <sup>175</sup>	35.90 <sup>31</sup>	85.13 <sup>173</sup>	52.092 <sup>271</sup>	87.41 <sup>193</sup>	13.435 <sup>98</sup>	16.31 <sup>51</sup>
29.3	17.213 <sup>192</sup>	83.41 <sup>137</sup>	35.59 <sup>38</sup>	86.86 <sup>138</sup>	51.821 <sup>315</sup>	89.34 <sup>148</sup>	13.337 <sup>136</sup>	16.82 <sup>37</sup>
Aug. 8.3	17.021 <sup>221</sup>	84.78 <sup>96</sup>	35.21 <sup>46</sup>	88.24 <sup>97</sup>	51.506 <sup>350</sup>	90.82 <sup>102</sup>	13.201 <sup>167</sup>	17.19 <sup>22</sup>
18.3	16.800 <sup>241</sup>	85.74 <sup>54</sup>	34.75 <sup>50</sup>	89.21 <sup>53</sup>	51.156 <sup>376</sup>	91.84 <sup>53</sup>	13.034 <sup>193</sup>	17.41 <sup>6</sup>
28.3	16.559 <sup>254</sup>	86.28 <sup>8</sup>	34.25 <sup>53</sup>	89.74 <sup>4</sup>	50.780 <sup>392</sup>	92.37 <sup>1</sup>	12.841 <sup>209</sup>	17.47 <sup>13</sup>
Sept. 7.2	16.305 <sup>257</sup>	86.36 <sup>37</sup>	33.72 <sup>53</sup>	89.78 <sup>43</sup>	50.388 <sup>394</sup>	92.38 <sup>50</sup>	12.632 <sup>214</sup>	17.34 <sup>30</sup>
17.2	16.048 <sup>250</sup>	85.99 <sup>82</sup>	33.19 <sup>51</sup>	89.35 <sup>91</sup>	49.994 <sup>386</sup>	91.88 <sup>101</sup>	12.418 <sup>208</sup>	17.04 <sup>47</sup>
27.2	15.798 <sup>233</sup>	85.17 <sup>128</sup>	32.68 <sup>47</sup>	88.44 <sup>135</sup>	49.608 <sup>364</sup>	90.87 <sup>151</sup>	12.210 <sup>190</sup>	16.57 <sup>62</sup>
Okt. 7.2	15.565 <sup>206</sup>	83.89 <sup>170</sup>	32.21 <sup>41</sup>	87.09 <sup>174</sup>	49.244 <sup>329</sup>	89.36 <sup>199</sup>	12.020 <sup>161</sup>	15.95 <sup>73</sup>
17.1	15.359 <sup>170</sup>	82.19 <sup>212</sup>	31.80 <sup>31</sup>	85.35 <sup>209</sup>	48.915 <sup>282</sup>	87.37 <sup>244</sup>	11.859 <sup>121</sup>	15.22 <sup>82</sup>
27.1	15.189 <sup>123</sup>	80.07 <sup>248</sup>	31.49 <sup>21</sup>	83.26 <sup>233</sup>	48.633 <sup>223</sup>	84.93 <sup>284</sup>	11.738 <sup>73</sup>	14.40 <sup>85</sup>
Nov. 6.1	15.066 <sup>72</sup>	77.59 <sup>280</sup>	31.28 <sup>9</sup>	80.93 <sup>250</sup>	48.410 <sup>154</sup>	82.09 <sup>319</sup>	11.665 <sup>17</sup>	13.55 <sup>83</sup>
16.0	14.994 <sup>14</sup>	74.79 <sup>308</sup>	31.19 <sup>3</sup>	78.43 <sup>256</sup>	48.256 <sup>79</sup>	78.90 <sup>345</sup>	11.648 <sup>41</sup>	12.72 <sup>77</sup>
26.0	14.980 <sup>44</sup>	71.71 <sup>328</sup>	31.22 <sup>17</sup>	75.87 <sup>252</sup>	48.177 <sup>0</sup>	75.45 <sup>364</sup>	11.689 <sup>101</sup>	11.95 <sup>66</sup>
Dez. 6.0	15.024 <sup>104</sup>	68.43 <sup>338</sup>	31.39 <sup>29</sup>	73.35 <sup>238</sup>	48.177 <sup>82</sup>	71.81 <sup>372</sup>	11.790 <sup>157</sup>	11.29 <sup>51</sup>
16.0	15.128 <sup>160</sup>	65.05 <sup>335</sup>	31.68 <sup>41</sup>	70.97 <sup>217</sup>	48.259 <sup>162</sup>	68.09 <sup>368</sup>	11.947 <sup>211</sup>	10.78 <sup>34</sup>
25.9	15.288 <sup>211</sup>	61.70 <sup>326</sup>	32.09 <sup>50</sup>	68.80 <sup>188</sup>	48.421 <sup>236</sup>	64.41 <sup>355</sup>	12.158 <sup>255</sup>	10.44 <sup>16</sup>
35.9	15.499	58.44	32.59	66.92	48.657	60.86	12.413	10.28
Mittl. Ort sec $\delta$ , tg $\delta$	15.341 1.288	64.57 +0.812	29.72 2.776	78.82 -2.590	50.078 1.832	68.16 +1.535	10.303 1.208	17.19 -0.678



Mittlere Zeit Greenw.	629) 49 Herculis		630) ζ <sup>2</sup> Scorpii		631) ζ Arae		633) α Ophiuchi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
I 923	16 <sup>h</sup> 48 <sup>m</sup>	+15° 6'	16 <sup>h</sup> 49 <sup>m</sup>	-42° 13'	16 <sup>h</sup> 52 <sup>m</sup>	-55° 51'	16 <sup>h</sup> 54 <sup>m</sup>	+9° 29'
Jan. 0.9	33.083 <sup>218</sup>	13.96 <sup>237</sup>	7.982 <sup>303</sup>	36.61 <sup>52</sup>	12.445 <sup>375</sup>	56.79 <sup>124</sup>	0.001 <sup>215</sup>	43.68 <sup>212</sup>
10.9	33.301 <sup>249</sup>	11.59 <sup>222</sup>	8.285 <sup>340</sup>	36.09 <sup>30</sup>	12.820 <sup>425</sup>	55.55 <sup>94</sup>	0.216 <sup>245</sup>	41.56 <sup>202</sup>
20.9	33.550 <sup>271</sup>	9.37 <sup>199</sup>	8.625 <sup>365</sup>	35.79 <sup>7</sup>	13.245 <sup>463</sup>	54.61 <sup>63</sup>	0.461 <sup>266</sup>	39.54 <sup>183</sup>
30.8	33.821 <sup>286</sup>	7.38 <sup>169</sup>	8.990 <sup>383</sup>	35.72 <sup>14</sup>	13.708 <sup>487</sup>	53.98 <sup>31</sup>	0.727 <sup>281</sup>	37.71 <sup>158</sup>
Feb. 9.8	34.107 <sup>293</sup>	5.69 <sup>132</sup>	9.373 <sup>391</sup>	35.86 <sup>33</sup>	14.195 <sup>501</sup>	53.67 <sup>1</sup>	1.008 <sup>289</sup>	36.13 <sup>126</sup>
19.8	34.400 <sup>295</sup>	4.37 <sup>91</sup>	9.764 <sup>392</sup>	36.19 <sup>51</sup>	14.696 <sup>505</sup>	53.68 <sup>30</sup>	1.297 <sup>290</sup>	34.87 <sup>90</sup>
März 1.8	34.695 <sup>289</sup>	3.46 <sup>47</sup>	10.156 <sup>386</sup>	36.70 <sup>65</sup>	15.201 <sup>499</sup>	53.98 <sup>59</sup>	1.587 <sup>286</sup>	33.97 <sup>51</sup>
11.7	34.984 <sup>281</sup>	2.99 <sup>2</sup>	10.542 <sup>374</sup>	37.35 <sup>79</sup>	15.700 <sup>486</sup>	54.57 <sup>85</sup>	1.873 <sup>278</sup>	33.46 <sup>11</sup>
21.7	35.265 <sup>266</sup>	2.97 <sup>41</sup>	10.916 <sup>358</sup>	38.14 <sup>90</sup>	16.186 <sup>466</sup>	55.42 <sup>109</sup>	2.151 <sup>265</sup>	33.35 <sup>27</sup>
31.7	35.531 <sup>249</sup>	3.38 <sup>81</sup>	11.274 <sup>339</sup>	39.04 <sup>99</sup>	16.652 <sup>439</sup>	56.51 <sup>130</sup>	2.416 <sup>250</sup>	33.62 <sup>64</sup>
Apr. 10.7	35.780 <sup>228</sup>	4.19 <sup>116</sup>	11.613 <sup>313</sup>	40.03 <sup>108</sup>	17.091 <sup>407</sup>	57.81 <sup>149</sup>	2.666 <sup>230</sup>	34.26 <sup>96</sup>
20.6	36.008 <sup>205</sup>	5.35 <sup>146</sup>	11.926 <sup>286</sup>	41.11 <sup>114</sup>	17.498 <sup>369</sup>	59.30 <sup>166</sup>	2.896 <sup>208</sup>	35.22 <sup>122</sup>
30.6	36.213 <sup>179</sup>	6.81 <sup>168</sup>	12.212 <sup>253</sup>	42.25 <sup>121</sup>	17.867 <sup>325</sup>	60.96 <sup>179</sup>	3.104 <sup>184</sup>	36.44 <sup>144</sup>
Mai 10.6	36.392 <sup>150</sup>	8.49 <sup>184</sup>	12.465 <sup>217</sup>	43.46 <sup>125</sup>	18.192 <sup>276</sup>	62.75 <sup>190</sup>	3.288 <sup>156</sup>	37.88 <sup>159</sup>
20.5	36.542 <sup>118</sup>	10.33 <sup>194</sup>	12.682 <sup>177</sup>	44.71 <sup>127</sup>	18.468 <sup>221</sup>	64.65 <sup>195</sup>	3.444 <sup>126</sup>	39.47 <sup>167</sup>
30.5	36.660 <sup>84</sup>	12.27 <sup>196</sup>	12.859 <sup>132</sup>	45.98 <sup>127</sup>	18.689 <sup>162</sup>	66.60 <sup>199</sup>	3.570 <sup>92</sup>	41.14 <sup>170</sup>
Juni 9.5	36.744 <sup>49</sup>	14.23 <sup>192</sup>	12.991 <sup>86</sup>	47.25 <sup>126</sup>	18.851 <sup>99</sup>	68.59 <sup>196</sup>	3.662 <sup>59</sup>	42.84 <sup>167</sup>
19.5	36.793 <sup>12</sup>	16.15 <sup>183</sup>	13.077 <sup>37</sup>	48.51 <sup>120</sup>	18.950 <sup>33</sup>	70.55 <sup>190</sup>	3.721 <sup>22</sup>	44.51 <sup>160</sup>
29.4	36.805 <sup>24</sup>	17.98 <sup>170</sup>	13.114 <sup>13</sup>	49.71 <sup>111</sup>	18.983 <sup>33</sup>	72.45 <sup>178</sup>	3.743 <sup>15</sup>	46.11 <sup>148</sup>
Juli 9.4	36.781 <sup>61</sup>	19.68 <sup>151</sup>	13.101 <sup>63</sup>	50.82 <sup>100</sup>	18.950 <sup>97</sup>	74.23 <sup>160</sup>	3.728 <sup>51</sup>	47.59 <sup>133</sup>
19.4	36.720 <sup>95</sup>	21.19 <sup>130</sup>	13.038 <sup>110</sup>	51.82 <sup>85</sup>	18.853 <sup>159</sup>	75.83 <sup>139</sup>	3.677 <sup>85</sup>	48.92 <sup>115</sup>
29.4	36.625 <sup>126</sup>	22.49 <sup>106</sup>	12.928 <sup>152</sup>	52.67 <sup>66</sup>	18.694 <sup>215</sup>	77.22 <sup>111</sup>	3.592 <sup>117</sup>	50.07 <sup>95</sup>
Aug. 8.3	36.499 <sup>152</sup>	23.55 <sup>80</sup>	12.776 <sup>189</sup>	53.33 <sup>41</sup>	18.479 <sup>262</sup>	78.33 <sup>80</sup>	3.475 <sup>144</sup>	51.02 <sup>74</sup>
18.3	36.347 <sup>173</sup>	24.35 <sup>53</sup>	12.587 <sup>217</sup>	53.77 <sup>24</sup>	18.217 <sup>298</sup>	79.13 <sup>46</sup>	3.331 <sup>166</sup>	51.76 <sup>50</sup>
28.3	36.174 <sup>186</sup>	24.88 <sup>23</sup>	12.370 <sup>235</sup>	53.98 <sup>4</sup>	17.919 <sup>322</sup>	79.59 <sup>8</sup>	3.165 <sup>179</sup>	52.26 <sup>26</sup>
Sept. 7.2	35.988 <sup>191</sup>	25.11 <sup>5</sup>	12.135 <sup>242</sup>	53.94 <sup>30</sup>	17.597 <sup>330</sup>	79.67 <sup>29</sup>	2.986 <sup>186</sup>	52.52 <sup>1</sup>
17.2	35.797 <sup>188</sup>	25.06 <sup>37</sup>	11.893 <sup>235</sup>	53.64 <sup>55</sup>	17.267 <sup>311</sup>	79.38 <sup>67</sup>	2.800 <sup>183</sup>	52.53 <sup>24</sup>
27.2	35.609 <sup>174</sup>	24.69 <sup>66</sup>	11.658 <sup>217</sup>	53.09 <sup>78</sup>	16.946 <sup>298</sup>	78.71 <sup>102</sup>	2.617 <sup>170</sup>	52.29 <sup>51</sup>
Okt. 7.2	35.435 <sup>151</sup>	24.03 <sup>98</sup>	11.441 <sup>184</sup>	52.31 <sup>97</sup>	16.648 <sup>257</sup>	77.69 <sup>134</sup>	2.447 <sup>149</sup>	51.78 <sup>77</sup>
17.1	35.284 <sup>120</sup>	23.05 <sup>127</sup>	11.257 <sup>141</sup>	51.34 <sup>113</sup>	16.391 <sup>201</sup>	76.35 <sup>160</sup>	2.298 <sup>118</sup>	51.01 <sup>104</sup>
27.1	35.164 <sup>81</sup>	21.78 <sup>157</sup>	11.116 <sup>88</sup>	50.21 <sup>122</sup>	16.190 <sup>133</sup>	74.75 <sup>180</sup>	2.180 <sup>80</sup>	49.97 <sup>129</sup>
Nov. 6.1	35.083 <sup>36</sup>	20.21 <sup>183</sup>	11.028 <sup>27</sup>	48.99 <sup>126</sup>	16.057 <sup>55</sup>	72.95 <sup>192</sup>	2.100 <sup>35</sup>	48.68 <sup>154</sup>
16.1	35.047 <sup>12</sup>	18.38 <sup>207</sup>	11.001 <sup>37</sup>	47.73 <sup>123</sup>	16.002 <sup>28</sup>	71.03 <sup>196</sup>	2.065 <sup>12</sup>	47.14 <sup>176</sup>
26.0	35.059 <sup>62</sup>	16.31 <sup>225</sup>	11.038 <sup>104</sup>	46.50 <sup>115</sup>	16.030 <sup>112</sup>	69.07 <sup>192</sup>	2.077 <sup>61</sup>	45.38 <sup>195</sup>
Dez. 6.0	35.121 <sup>111</sup>	14.06 <sup>239</sup>	11.142 <sup>167</sup>	45.35 <sup>102</sup>	16.142 <sup>196</sup>	67.15 <sup>180</sup>	2.138 <sup>109</sup>	43.43 <sup>208</sup>
16.0	35.232 <sup>157</sup>	11.67 <sup>246</sup>	11.309 <sup>225</sup>	44.33 <sup>84</sup>	16.338 <sup>271</sup>	65.35 <sup>162</sup>	2.247 <sup>154</sup>	41.35 <sup>217</sup>
25.9	35.389 <sup>198</sup>	9.21 <sup>244</sup>	11.534 <sup>277</sup>	43.49 <sup>63</sup>	16.609 <sup>340</sup>	63.73 <sup>139</sup>	2.401 <sup>194</sup>	39.18 <sup>219</sup>
35.9	35.587	6.77	11.811	42.86	16.949	62.34	2.595	36.99
Mittl. Ort sec δ, tg δ	34.463 1.036	8.28 +0.270	9.551 1.351	51.25 -0.908	14.471 1.782	72.95 -1.475	1.350 1.014	37.01 +0.167

Mittlere Zeit Greenw.	634) ε Hercules		637) η Ophiuchi		639) ζ Draconis		640) α Hercules	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	16 <sup>h</sup> 57 <sup>m</sup>	+31° 2'	17 <sup>h</sup> 5 <sup>m</sup>	-15° 37'	17 <sup>h</sup> 8 <sup>m</sup>	+65° 48'	17 <sup>h</sup> 11 <sup>m</sup>	+14° 28'
Jan. 0.9	18.971 <sup>214</sup>	23.85 <sup>293</sup>	56.256 <sup>226</sup>	40.76 <sup>81</sup>	30.21 <sup>28</sup>	35.86 <sup>349</sup>	6.718 <sup>199</sup>	43.54 <sup>232</sup>
10.9	19.185 <sup>250</sup>	20.92 <sup>272</sup>	56.482 <sup>256</sup>	41.57 <sup>86</sup>	30.49 <sup>36</sup>	32.37 <sup>318</sup>	6.917 <sup>231</sup>	41.22 <sup>220</sup>
20.9	19.435 <sup>279</sup>	18.20 <sup>239</sup>	56.738 <sup>278</sup>	42.43 <sup>88</sup>	30.85 <sup>45</sup>	29.19 <sup>277</sup>	7.148 <sup>256</sup>	39.02 <sup>200</sup>
30.9	19.714 <sup>299</sup>	15.81 <sup>199</sup>	57.016 <sup>294</sup>	43.31 <sup>83</sup>	31.30 <sup>50</sup>	26.42 <sup>227</sup>	7.404 <sup>275</sup>	37.02 <sup>171</sup>
Feb. 9.8	20.013 <sup>313</sup>	13.82 <sup>150</sup>	57.310 <sup>302</sup>	44.14 <sup>76</sup>	31.80 <sup>55</sup>	24.15 <sup>167</sup>	7.679 <sup>285</sup>	35.31 <sup>136</sup>
19.8	20.326 <sup>316</sup>	12.32 <sup>98</sup>	57.612 <sup>304</sup>	44.90 <sup>66</sup>	32.35 <sup>57</sup>	22.48 <sup>102</sup>	7.964 <sup>290</sup>	33.95 <sup>96</sup>
März 1.8	20.642 <sup>315</sup>	11.34 <sup>41</sup>	57.916 <sup>302</sup>	45.56 <sup>52</sup>	32.92 <sup>58</sup>	21.46 <sup>34</sup>	8.254 <sup>290</sup>	32.99 <sup>53</sup>
11.7	20.957 <sup>306</sup>	10.93 <sup>14</sup>	58.218 <sup>295</sup>	46.08 <sup>37</sup>	33.50 <sup>58</sup>	21.12 <sup>34</sup>	8.544 <sup>284</sup>	32.46 <sup>8</sup>
21.7	21.263 <sup>291</sup>	11.07 <sup>70</sup>	58.513 <sup>285</sup>	46.45 <sup>23</sup>	34.08 <sup>54</sup>	21.46 <sup>100</sup>	8.828 <sup>274</sup>	32.38 <sup>34</sup>
31.7	21.554 <sup>273</sup>	11.77 <sup>119</sup>	58.798 <sup>271</sup>	46.68 <sup>8</sup>	34.62 <sup>51</sup>	22.46 <sup>159</sup>	9.102 <sup>260</sup>	32.72 <sup>75</sup>
Apr. 10.7	21.827 <sup>249</sup>	12.96 <sup>164</sup>	59.069 <sup>255</sup>	46.76 <sup>6</sup>	35.13 <sup>45</sup>	24.05 <sup>213</sup>	9.362 <sup>243</sup>	33.47 <sup>112</sup>
20.6	22.076 <sup>221</sup>	14.60 <sup>201</sup>	59.324 <sup>235</sup>	46.70 <sup>15</sup>	35.58 <sup>38</sup>	26.18 <sup>257</sup>	9.605 <sup>222</sup>	34.59 <sup>142</sup>
30.6	22.297 <sup>191</sup>	16.61 <sup>230</sup>	59.559 <sup>212</sup>	46.55 <sup>24</sup>	35.96 <sup>31</sup>	28.75 <sup>292</sup>	9.827 <sup>197</sup>	36.01 <sup>166</sup>
Mai 10.6	22.488 <sup>156</sup>	18.91 <sup>250</sup>	59.771 <sup>186</sup>	46.31 <sup>30</sup>	36.27 <sup>23</sup>	31.67 <sup>316</sup>	10.024 <sup>170</sup>	37.67 <sup>184</sup>
20.6	22.644 <sup>119</sup>	21.41 <sup>261</sup>	59.957 <sup>156</sup>	46.01 <sup>33</sup>	36.50 <sup>13</sup>	34.83 <sup>330</sup>	10.194 <sup>139</sup>	39.51 <sup>195</sup>
30.5	22.763 <sup>80</sup>	24.02 <sup>265</sup>	60.113 <sup>123</sup>	45.68 <sup>34</sup>	36.63 <sup>5</sup>	38.13 <sup>334</sup>	10.333 <sup>106</sup>	41.46 <sup>198</sup>
Juni 9.5	22.843 <sup>39</sup>	26.67 <sup>259</sup>	60.236 <sup>88</sup>	45.34 <sup>33</sup>	36.68 <sup>4</sup>	41.47 <sup>326</sup>	10.439 <sup>70</sup>	43.44 <sup>197</sup>
19.5	22.882 <sup>2</sup>	29.26 <sup>247</sup>	60.324 <sup>49</sup>	45.01 <sup>31</sup>	36.64 <sup>12</sup>	44.73 <sup>312</sup>	10.509 <sup>33</sup>	45.41 <sup>189</sup>
29.4	22.880 <sup>44</sup>	31.73 <sup>229</sup>	60.373 <sup>11</sup>	44.70 <sup>28</sup>	36.52 <sup>22</sup>	47.85 <sup>287</sup>	10.542 <sup>6</sup>	47.30 <sup>176</sup>
Juli 9.4	22.836 <sup>83</sup>	34.02 <sup>205</sup>	60.384 <sup>28</sup>	44.42 <sup>25</sup>	36.30 <sup>29</sup>	50.72 <sup>257</sup>	10.536 <sup>44</sup>	49.06 <sup>159</sup>
19.4	22.753 <sup>122</sup>	36.07 <sup>175</sup>	60.356 <sup>67</sup>	44.17 <sup>22</sup>	36.01 <sup>36</sup>	53.29 <sup>220</sup>	10.492 <sup>80</sup>	50.65 <sup>139</sup>
29.4	22.631 <sup>156</sup>	37.82 <sup>142</sup>	60.289 <sup>102</sup>	43.95 <sup>20</sup>	35.65 <sup>43</sup>	55.49 <sup>178</sup>	10.412 <sup>114</sup>	52.04 <sup>116</sup>
Aug. 8.3	22.475 <sup>184</sup>	39.24 <sup>107</sup>	60.187 <sup>132</sup>	43.75 <sup>18</sup>	35.22 <sup>48</sup>	57.27 <sup>132</sup>	10.298 <sup>143</sup>	53.20 <sup>90</sup>
18.3	22.291 <sup>208</sup>	40.31 <sup>68</sup>	60.055 <sup>157</sup>	43.57 <sup>16</sup>	34.74 <sup>52</sup>	58.59 <sup>82</sup>	10.155 <sup>167</sup>	54.10 <sup>64</sup>
28.3	22.083 <sup>223</sup>	40.99 <sup>29</sup>	59.898 <sup>175</sup>	43.41 <sup>15</sup>	34.22 <sup>54</sup>	59.41 <sup>32</sup>	9.988 <sup>185</sup>	54.74 <sup>35</sup>
Sept. 7.3	21.860 <sup>229</sup>	41.28 <sup>13</sup>	59.723 <sup>183</sup>	43.26 <sup>14</sup>	33.68 <sup>56</sup>	59.73 <sup>21</sup>	9.803 <sup>193</sup>	55.09 <sup>6</sup>
17.2	21.631 <sup>226</sup>	41.15 <sup>54</sup>	59.540 <sup>182</sup>	43.12 <sup>12</sup>	33.12 <sup>55</sup>	59.52 <sup>73</sup>	9.610 <sup>192</sup>	55.15 <sup>24</sup>
27.2	21.405 <sup>213</sup>	40.61 <sup>96</sup>	59.358 <sup>170</sup>	43.00 <sup>10</sup>	32.57 <sup>53</sup>	58.79 <sup>126</sup>	9.418 <sup>183</sup>	54.91 <sup>54</sup>
Okt. 7.2	21.192 <sup>190</sup>	39.65 <sup>136</sup>	59.188 <sup>149</sup>	42.90 <sup>5</sup>	32.04 <sup>49</sup>	57.53 <sup>175</sup>	9.235 <sup>162</sup>	54.37 <sup>84</sup>
17.1	21.002 <sup>159</sup>	38.29 <sup>175</sup>	59.039 <sup>118</sup>	42.85 <sup>0</sup>	31.55 <sup>44</sup>	55.78 <sup>224</sup>	9.073 <sup>135</sup>	53.53 <sup>114</sup>
27.1	20.843 <sup>117</sup>	36.54 <sup>211</sup>	58.921 <sup>78</sup>	42.85 <sup>10</sup>	31.11 <sup>37</sup>	53.54 <sup>267</sup>	8.938 <sup>99</sup>	52.39 <sup>144</sup>
Nov. 6.1	20.726 <sup>71</sup>	34.43 <sup>244</sup>	58.843 <sup>32</sup>	42.95 <sup>19</sup>	30.74 <sup>29</sup>	50.87 <sup>305</sup>	8.839 <sup>55</sup>	50.95 <sup>170</sup>
16.1	20.655 <sup>19</sup>	31.99 <sup>271</sup>	58.811 <sup>17</sup>	43.14 <sup>31</sup>	30.45 <sup>20</sup>	47.82 <sup>337</sup>	8.784 <sup>8</sup>	49.25 <sup>195</sup>
26.0	20.636 <sup>36</sup>	29.28 <sup>293</sup>	58.828 <sup>68</sup>	43.45 <sup>44</sup>	30.25 <sup>10</sup>	44.45 <sup>359</sup>	8.776 <sup>40</sup>	47.30 <sup>214</sup>
Dez. 6.0	20.672 <sup>89</sup>	26.35 <sup>307</sup>	58.896 <sup>117</sup>	43.89 <sup>57</sup>	30.15 <sup>1</sup>	40.86 <sup>373</sup>	8.816 <sup>88</sup>	45.16 <sup>230</sup>
16.0	20.761 <sup>141</sup>	23.28 <sup>310</sup>	59.013 <sup>164</sup>	44.46 <sup>70</sup>	30.16 <sup>11</sup>	37.13 <sup>374</sup>	8.904 <sup>135</sup>	42.86 <sup>238</sup>
26.0	20.902 <sup>188</sup>	20.18 <sup>305</sup>	59.177 <sup>205</sup>	45.16 <sup>80</sup>	30.27 <sup>21</sup>	33.39 <sup>364</sup>	9.039 <sup>177</sup>	40.48 <sup>239</sup>
35.9	21.090	17.13	59.382	45.96	30.48	29.75	9.216	38.09
Mittl. Ort sec δ, tg δ	20.579 1.167	19.93 +0.602	57.606 1.038	51.15 -0.280	33.62 2.440	33.78 +2.226	8.133 1.033	37.11 +0.258



Mittlere Zeit Greenw.	641) $\delta$ Hercules		643) $\pi$ Hercules		644) $\vartheta$ Ophiuchi		645) $\beta$ Arae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$17^h 11^m$	$+24^\circ 55'$	$17^h 12^m$	$+36^\circ 53'$	$17^h 17^m$	$-24^\circ 55'$	$17^h 18^m$	$-55^\circ 27'$
Jan. 0.9	50.567 <sup>197</sup>	49.79 <sup>275</sup>	20.132 <sup>201</sup>	46.46 <sup>313</sup>	15.254 <sup>231</sup>	15.17 <sup>23</sup>	51.451 <sup>336</sup>	17.64 <sup>145</sup>
10.9	50.764 <sup>233</sup>	47.04 <sup>257</sup>	20.333 <sup>242</sup>	43.33 <sup>290</sup>	15.485 <sup>263</sup>	15.40 <sup>33</sup>	51.787 <sup>390</sup>	16.19 <sup>121</sup>
20.9	50.997 <sup>261</sup>	44.47 <sup>231</sup>	20.575 <sup>277</sup>	40.43 <sup>257</sup>	15.748 <sup>288</sup>	15.73 <sup>40</sup>	52.177 <sup>432</sup>	14.98 <sup>92</sup>
30.9	51.258 <sup>282</sup>	42.16 <sup>195</sup>	20.852 <sup>303</sup>	37.86 <sup>216</sup>	16.036 <sup>306</sup>	16.13 <sup>45</sup>	52.609 <sup>464</sup>	14.06 <sup>64</sup>
Feb. 9.8	51.540 <sup>295</sup>	40.21 <sup>152</sup>	21.155 <sup>320</sup>	35.70 <sup>165</sup>	16.342 <sup>316</sup>	16.58 <sup>47</sup>	53.073 <sup>484</sup>	13.42 <sup>34</sup>
19.8	51.835 <sup>302</sup>	38.69 <sup>105</sup>	21.475 <sup>330</sup>	34.05 <sup>109</sup>	16.658 <sup>322</sup>	17.05 <sup>45</sup>	53.557 <sup>495</sup>	13.08 <sup>7</sup>
März 1.8	52.137 <sup>302</sup>	37.64 <sup>52</sup>	21.805 <sup>331</sup>	32.96 <sup>50</sup>	16.980 <sup>320</sup>	17.50 <sup>42</sup>	54.052 <sup>497</sup>	13.01 <sup>22</sup>
11.8	52.439 <sup>296</sup>	37.12 <sup>1</sup>	22.136 <sup>325</sup>	32.46 <sup>10</sup>	17.300 <sup>316</sup>	17.92 <sup>37</sup>	54.549 <sup>491</sup>	13.23 <sup>47</sup>
21.7	52.735 <sup>286</sup>	37.11 <sup>52</sup>	22.461 <sup>313</sup>	32.56 <sup>68</sup>	17.616 <sup>306</sup>	18.29 <sup>32</sup>	55.040 <sup>477</sup>	13.70 <sup>73</sup>
31.7	53.021 <sup>270</sup>	37.63 <sup>98</sup>	22.774 <sup>295</sup>	33.24 <sup>122</sup>	17.922 <sup>295</sup>	18.61 <sup>27</sup>	55.517 <sup>457</sup>	14.43 <sup>96</sup>
Apr. 10.7	53.291 <sup>251</sup>	38.61 <sup>141</sup>	23.069 <sup>271</sup>	34.46 <sup>170</sup>	18.217 <sup>278</sup>	18.88 <sup>21</sup>	55.974 <sup>431</sup>	15.39 <sup>118</sup>
20.6	53.542 <sup>227</sup>	40.02 <sup>178</sup>	23.340 <sup>243</sup>	36.16 <sup>212</sup>	18.495 <sup>259</sup>	19.09 <sup>19</sup>	56.405 <sup>399</sup>	16.57 <sup>136</sup>
30.6	53.769 <sup>201</sup>	41.80 <sup>205</sup>	23.583 <sup>210</sup>	38.28 <sup>244</sup>	18.754 <sup>236</sup>	19.28 <sup>17</sup>	56.804 <sup>358</sup>	17.93 <sup>154</sup>
Mai 10.6	53.970 <sup>169</sup>	43.85 <sup>227</sup>	23.793 <sup>174</sup>	40.72 <sup>267</sup>	18.990 <sup>229</sup>	19.45 <sup>16</sup>	57.162 <sup>314</sup>	19.47 <sup>168</sup>
20.6	54.139 <sup>136</sup>	46.12 <sup>239</sup>	23.967 <sup>134</sup>	43.39 <sup>282</sup>	19.199 <sup>178</sup>	19.61 <sup>16</sup>	57.476 <sup>262</sup>	21.15 <sup>179</sup>
30.5	54.275 <sup>100</sup>	48.51 <sup>244</sup>	24.101 <sup>91</sup>	46.21 <sup>286</sup>	19.377 <sup>143</sup>	19.77 <sup>18</sup>	57.738 <sup>204</sup>	22.94 <sup>187</sup>
Juni 9.5	54.375 <sup>60</sup>	50.95 <sup>242</sup>	24.192 <sup>47</sup>	49.07 <sup>284</sup>	19.520 <sup>105</sup>	19.95 <sup>19</sup>	57.942 <sup>143</sup>	24.81 <sup>190</sup>
19.5	54.435 <sup>22</sup>	53.37 <sup>232</sup>	24.239 <sup>3</sup>	51.91 <sup>272</sup>	19.625 <sup>65</sup>	20.14 <sup>21</sup>	58.085 <sup>76</sup>	26.71 <sup>189</sup>
29.5	54.457 <sup>19</sup>	55.69 <sup>216</sup>	24.242 <sup>44</sup>	54.63 <sup>253</sup>	19.690 <sup>22</sup>	20.35 <sup>22</sup>	58.161 <sup>9</sup>	28.60 <sup>183</sup>
Juli 9.4	54.438 <sup>60</sup>	57.85 <sup>196</sup>	24.198 <sup>87</sup>	57.16 <sup>229</sup>	19.712 <sup>20</sup>	20.57 <sup>22</sup>	58.170 <sup>58</sup>	30.43 <sup>170</sup>
19.4	54.378 <sup>97</sup>	59.81 <sup>170</sup>	24.111 <sup>128</sup>	59.45 <sup>199</sup>	19.692 <sup>61</sup>	20.79 <sup>20</sup>	58.112 <sup>123</sup>	32.13 <sup>153</sup>
29.4	54.281 <sup>132</sup>	61.51 <sup>141</sup>	23.983 <sup>167</sup>	61.44 <sup>165</sup>	19.631 <sup>101</sup>	20.99 <sup>17</sup>	57.989 <sup>184</sup>	33.66 <sup>131</sup>
Aug. 8.3	54.149 <sup>163</sup>	62.92 <sup>109</sup>	23.816 <sup>199</sup>	63.09 <sup>126</sup>	19.530 <sup>135</sup>	21.16 <sup>12</sup>	57.805 <sup>237</sup>	34.97 <sup>104</sup>
18.3	53.986 <sup>187</sup>	64.01 <sup>76</sup>	23.617 <sup>226</sup>	64.35 <sup>86</sup>	19.395 <sup>164</sup>	21.28 <sup>6</sup>	57.568 <sup>280</sup>	36.01 <sup>72</sup>
28.3	53.799 <sup>204</sup>	64.77 <sup>39</sup>	23.391 <sup>243</sup>	65.21 <sup>42</sup>	19.231 <sup>183</sup>	21.34 <sup>1</sup>	57.288 <sup>310</sup>	36.73 <sup>37</sup>
Sept. 7.3	53.595 <sup>213</sup>	65.16 <sup>3</sup>	23.148 <sup>253</sup>	65.63 <sup>1</sup>	19.048 <sup>195</sup>	21.33 <sup>10</sup>	56.978 <sup>327</sup>	37.10 <sup>0</sup>
17.2	53.382 <sup>213</sup>	65.19 <sup>36</sup>	22.895 <sup>253</sup>	65.62 <sup>47</sup>	18.853 <sup>195</sup>	21.23 <sup>17</sup>	56.651 <sup>328</sup>	37.10 <sup>38</sup>
27.2	53.169 <sup>203</sup>	64.83 <sup>73</sup>	22.642 <sup>241</sup>	65.15 <sup>91</sup>	18.658 <sup>185</sup>	21.06 <sup>24</sup>	56.323 <sup>310</sup>	36.72 <sup>74</sup>
Okt. 7.2	52.966 <sup>182</sup>	64.10 <sup>111</sup>	22.401 <sup>220</sup>	64.24 <sup>135</sup>	18.473 <sup>163</sup>	20.82 <sup>30</sup>	56.013 <sup>278</sup>	35.98 <sup>108</sup>
17.2	52.784 <sup>154</sup>	62.99 <sup>147</sup>	22.181 <sup>188</sup>	62.89 <sup>178</sup>	18.310 <sup>132</sup>	20.52 <sup>33</sup>	55.735 <sup>229</sup>	34.90 <sup>138</sup>
27.1	52.630 <sup>116</sup>	61.52 <sup>182</sup>	21.993 <sup>149</sup>	61.11 <sup>217</sup>	18.178 <sup>91</sup>	20.19 <sup>33</sup>	55.506 <sup>167</sup>	33.52 <sup>162</sup>
Nov. 6.1	52.514 <sup>72</sup>	59.70 <sup>214</sup>	21.844 <sup>101</sup>	58.94 <sup>254</sup>	18.087 <sup>44</sup>	19.86 <sup>30</sup>	55.339 <sup>95</sup>	31.90 <sup>180</sup>
16.1	52.442 <sup>24</sup>	57.56 <sup>241</sup>	21.743 <sup>47</sup>	56.40 <sup>283</sup>	18.043 <sup>8</sup>	19.56 <sup>24</sup>	55.244 <sup>14</sup>	30.10 <sup>190</sup>
26.0	52.418 <sup>28</sup>	55.15 <sup>263</sup>	21.696 <sup>8</sup>	53.57 <sup>307</sup>	18.051 <sup>61</sup>	19.32 <sup>14</sup>	55.230 <sup>67</sup>	28.20 <sup>191</sup>
Dez. 6.0	52.446 <sup>79</sup>	52.52 <sup>279</sup>	21.704 <sup>65</sup>	50.50 <sup>323</sup>	18.112 <sup>114</sup>	19.18 <sup>4</sup>	55.297 <sup>150</sup>	26.29 <sup>187</sup>
16.0	52.525 <sup>128</sup>	49.73 <sup>285</sup>	21.769 <sup>121</sup>	47.27 <sup>328</sup>	18.226 <sup>103</sup>	19.14 <sup>7</sup>	55.447 <sup>227</sup>	24.42 <sup>175</sup>
26.0	52.653 <sup>173</sup>	46.88 <sup>284</sup>	21.890 <sup>173</sup>	43.99 <sup>323</sup>	18.389 <sup>208</sup>	19.21 <sup>20</sup>	55.674 <sup>298</sup>	22.67 <sup>155</sup>
35.9	52.826	44.04	22.063	40.76	18.597	19.41	55.972	21.12
Mittl. Ort sec $\delta$ , tg $\delta$	52.093 1.103	44.52 +0.465	21.875 1.250	42.32 +0.751	16.705 1.103	26.52 -0.465	53.674 1.764	32.16 -1.453



Mittlere Zeit Greenw.	648) $\delta$ Arae		651) $\alpha$ Arae		652) $\lambda$ Scorpii		653) $\beta$ Draconis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	17 <sup>h</sup> 24 <sup>m</sup>	-60° 36'	17 <sup>h</sup> 25 <sup>m</sup>	-49° 48'	17 <sup>h</sup> 28 <sup>m</sup>	-37° 2'	17 <sup>h</sup> 28 <sup>m</sup>	+52° 21'
Jan. 1.0	6.01	62.51	51.143	47.23	20.949	44.46	39.245	32.22
10.9	6.38	60.77	51.437	46.02	21.195	43.93	39.440	28.75
20.9	6.82	59.29	51.780	45.02	21.480	43.55	39.695	25.52
30.9	7.30	58.10	52.160	44.25	21.795	43.31	40.001	22.64
Feb. 9.8	7.82	57.24	52.569	43.71	22.132	43.22	40.349	20.21
19.8	8.37	56.70	52.996	43.42	22.484	43.25	40.728	18.33
März 1.8	8.94	56.48	53.434	43.36	22.843	43.39	41.129	17.05
11.8	9.50	56.58	53.875	43.53	23.205	43.63	41.537	16.43
21.7	10.06	56.99	54.311	43.90	23.563	43.94	41.944	16.46
31.7	10.61	57.70	54.737	44.48	23.913	44.34	42.339	17.14
Apr. 10.7	11.14	58.69	55.147	45.24	24.251	44.80	42.714	18.43
20.7	11.64	59.93	55.536	46.17	24.573	45.32	43.058	20.28
30.6	12.10	61.41	55.898	47.27	24.874	45.92	43.365	22.58
Mai 10.6	12.51	63.10	56.227	48.51	25.149	46.58	43.628	25.27
20.6	12.87	64.96	56.518	49.88	25.395	47.31	43.841	28.25
30.5	13.18	66.95	56.764	51.36	25.606	48.10	44.000	31.40
Juni 9.5	13.41	69.05	56.961	52.91	25.778	48.94	44.102	34.64
19.5	13.57	71.19	57.104	54.51	25.907	49.82	44.144	37.87
29.5	13.66	73.33	57.190	56.10	25.989	50.71	44.126	41.00
Juli 9.4	13.67	75.40	57.215	57.66	26.022	51.60	44.048	43.94
19.4	13.60	77.35	57.180	59.14	26.007	52.45	43.914	46.62
29.4	13.45	79.12	57.087	60.48	25.943	53.23	43.724	48.98
Aug. 8.4	13.24	80.64	56.939	61.64	25.834	53.92	43.486	50.97
18.3	12.96	81.87	56.741	62.57	25.684	54.47	43.206	52.54
28.3	12.64	82.74	56.505	63.24	25.500	54.87	42.891	53.65
Sept. 7.3	12.27	83.24	56.239	63.61	25.292	55.08	42.552	54.28
17.2	11.89	83.32	55.956	63.66	25.069	55.09	42.198	54.41
27.2	11.51	82.99	55.671	63.39	24.841	54.90	41.842	54.03
Okt. 7.2	11.14	82.24	55.399	62.80	24.628	54.52	41.496	53.14
17.2	10.81	81.10	55.154	61.91	24.434	53.95	41.172	51.75
27.1	10.53	79.62	54.951	60.76	24.274	53.24	40.882	49.88
Nov. 6.1	10.32	77.85	54.801	59.40	24.158	52.41	40.638	47.55
16.1	10.19	75.87	54.716	57.88	24.094	51.51	40.449	44.81
26.1	10.16	73.75	54.700	56.28	24.087	50.59	40.323	41.73
Dez. 6.0	10.21	71.58	54.757	54.66	24.140	49.70	40.266	38.37
16.0	10.36	69.44	54.886	53.10	24.253	48.88	40.280	34.83
26.0	10.60	67.40	55.085	51.64	24.421	48.16	40.366	31.21
35.9	10.93	65.55	55.345	50.33	24.640	47.57	40.521	27.63
Mittl. Ort	8.61	77.11	53.158	60.82	22.617	56.71	41.527	28.06
sec $\delta$ , tg $\delta$	2.039	-1.776	1.550	-1.184	1.253	-0.755	1.637	+1.297

# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	656) α Ophiuchi		654) ♃ Scorpii		658) ♆ Serpentes		663) ♂ Herculis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
<b>1923</b>	17 <sup>h</sup> 31 <sup>m</sup>	+12° 36'	17 <sup>h</sup> 31 <sup>m</sup>	-42° 56'	17 <sup>h</sup> 33 <sup>m</sup>	-15° 20'	17 <sup>h</sup> 37 <sup>m</sup>	+46° 2'
Jan. 1.0	20.126 <sup>182</sup>	60.85 <sup>223</sup>	45.144 <sup>260</sup>	49.10 <sup>89</sup>	9.141 <sup>201</sup>	55.19 <sup>71</sup>	15.426 <sup>176</sup>	52.41 <sup>338</sup>
10.9	20.308 <sup>215</sup>	58.62 <sup>212</sup>	45.404 <sup>303</sup>	48.21 <sup>71</sup>	9.342 <sup>234</sup>	55.90 <sup>75</sup>	15.602 <sup>229</sup>	49.03 <sup>317</sup>
20.9	20.523 <sup>242</sup>	56.50 <sup>195</sup>	45.707 <sup>336</sup>	47.50 <sup>53</sup>	9.576 <sup>260</sup>	56.65 <sup>74</sup>	15.831 <sup>274</sup>	45.86 <sup>285</sup>
30.9	20.765 <sup>262</sup>	54.55 <sup>168</sup>	46.043 <sup>362</sup>	46.97 <sup>35</sup>	9.836 <sup>278</sup>	57.39 <sup>71</sup>	16.105 <sup>310</sup>	43.01 <sup>243</sup>
Feb. 9.8	21.027 <sup>276</sup>	52.87 <sup>137</sup>	46.405 <sup>379</sup>	46.62 <sup>18</sup>	10.114 <sup>291</sup>	58.10 <sup>62</sup>	16.415 <sup>339</sup>	40.58 <sup>192</sup>
19.8	21.303 <sup>285</sup>	51.50 <sup>98</sup>	46.784 <sup>388</sup>	46.44 <sup>0</sup>	10.405 <sup>298</sup>	58.72 <sup>52</sup>	16.754 <sup>357</sup>	38.66 <sup>134</sup>
März 1.8	21.588 <sup>287</sup>	50.52 <sup>58</sup>	47.172 <sup>391</sup>	46.44 <sup>14</sup>	10.703 <sup>300</sup>	59.24 <sup>38</sup>	17.111 <sup>366</sup>	37.32 <sup>71</sup>
11.8	21.875 <sup>285</sup>	49.94 <sup>15</sup>	47.563 <sup>389</sup>	46.58 <sup>29</sup>	11.003 <sup>298</sup>	59.62 <sup>23</sup>	17.477 <sup>367</sup>	36.61 <sup>8</sup>
21.7	22.160 <sup>279</sup>	49.79 <sup>27</sup>	47.952 <sup>381</sup>	46.87 <sup>42</sup>	11.301 <sup>292</sup>	59.85 <sup>7</sup>	17.844 <sup>358</sup>	36.53 <sup>56</sup>
31.7	22.439 <sup>268</sup>	50.06 <sup>67</sup>	48.333 <sup>368</sup>	47.29 <sup>55</sup>	11.593 <sup>282</sup>	59.92 <sup>6</sup>	18.202 <sup>342</sup>	37.09 <sup>115</sup>
Apr. 10.7	22.707 <sup>253</sup>	50.73 <sup>102</sup>	48.701 <sup>351</sup>	47.84 <sup>67</sup>	11.875 <sup>270</sup>	59.86 <sup>20</sup>	18.544 <sup>319</sup>	38.24 <sup>169</sup>
20.7	22.960 <sup>236</sup>	51.75 <sup>134</sup>	49.052 <sup>328</sup>	48.51 <sup>79</sup>	12.145 <sup>253</sup>	59.66 <sup>29</sup>	18.863 <sup>289</sup>	39.93 <sup>217</sup>
30.6	23.196 <sup>213</sup>	53.09 <sup>158</sup>	49.380 <sup>301</sup>	49.30 <sup>90</sup>	12.398 <sup>233</sup>	59.37 <sup>38</sup>	19.152 <sup>253</sup>	42.10 <sup>255</sup>
Mai 10.6	23.409 <sup>188</sup>	54.67 <sup>177</sup>	49.681 <sup>269</sup>	50.20 <sup>100</sup>	12.631 <sup>208</sup>	58.99 <sup>42</sup>	19.405 <sup>211</sup>	44.65 <sup>283</sup>
20.6	23.597 <sup>159</sup>	56.44 <sup>188</sup>	49.950 <sup>230</sup>	51.20 <sup>108</sup>	12.839 <sup>181</sup>	58.57 <sup>45</sup>	19.616 <sup>166</sup>	47.48 <sup>304</sup>
30.5	23.756 <sup>126</sup>	58.32 <sup>194</sup>	50.180 <sup>188</sup>	52.28 <sup>116</sup>	13.020 <sup>148</sup>	58.12 <sup>43</sup>	19.782 <sup>116</sup>	50.52 <sup>313</sup>
Juni 9.5	23.882 <sup>90</sup>	60.26 <sup>193</sup>	50.368 <sup>140</sup>	53.44 <sup>120</sup>	13.168 <sup>113</sup>	57.69 <sup>42</sup>	19.898 <sup>64</sup>	53.65 <sup>314</sup>
19.5	23.972 <sup>53</sup>	62.19 <sup>186</sup>	50.508 <sup>90</sup>	54.64 <sup>122</sup>	13.281 <sup>75</sup>	57.27 <sup>37</sup>	19.962 <sup>11</sup>	56.79 <sup>305</sup>
29.5	24.025 <sup>14</sup>	64.05 <sup>175</sup>	50.598 <sup>36</sup>	55.86 <sup>121</sup>	13.356 <sup>34</sup>	56.90 <sup>33</sup>	19.973 <sup>42</sup>	59.84 <sup>289</sup>
Juli 9.4	24.039 <sup>26</sup>	65.80 <sup>160</sup>	50.634 <sup>17</sup>	57.07 <sup>115</sup>	13.390 <sup>6</sup>	56.57 <sup>27</sup>	19.931 <sup>94</sup>	62.73 <sup>266</sup>
19.4	24.013 <sup>64</sup>	67.40 <sup>140</sup>	50.617 <sup>70</sup>	58.22 <sup>106</sup>	13.384 <sup>47</sup>	56.30 <sup>22</sup>	19.837 <sup>145</sup>	65.39 <sup>236</sup>
29.4	23.949 <sup>100</sup>	68.80 <sup>120</sup>	50.547 <sup>120</sup>	59.28 <sup>94</sup>	13.337 <sup>86</sup>	56.08 <sup>17</sup>	19.692 <sup>190</sup>	67.75 <sup>201</sup>
Aug. 8.4	23.849 <sup>131</sup>	70.00 <sup>95</sup>	50.427 <sup>164</sup>	60.22 <sup>76</sup>	13.251 <sup>119</sup>	55.91 <sup>14</sup>	19.502 <sup>230</sup>	69.76 <sup>161</sup>
18.3	23.718 <sup>159</sup>	70.95 <sup>69</sup>	50.263 <sup>201</sup>	60.98 <sup>56</sup>	13.132 <sup>148</sup>	55.77 <sup>11</sup>	19.272 <sup>263</sup>	71.37 <sup>119</sup>
28.3	23.559 <sup>178</sup>	71.64 <sup>43</sup>	50.062 <sup>229</sup>	61.54 <sup>32</sup>	12.984 <sup>170</sup>	55.66 <sup>8</sup>	19.009 <sup>288</sup>	72.56 <sup>72</sup>
Sept. 7.3	23.381 <sup>190</sup>	72.07 <sup>15</sup>	49.833 <sup>245</sup>	61.86 <sup>7</sup>	12.814 <sup>183</sup>	55.58 <sup>6</sup>	18.721 <sup>303</sup>	73.28 <sup>25</sup>
17.2	23.191 <sup>193</sup>	72.22 <sup>13</sup>	49.588 <sup>248</sup>	61.93 <sup>19</sup>	12.631 <sup>186</sup>	55.52 <sup>4</sup>	18.418 <sup>307</sup>	73.53 <sup>25</sup>
27.2	22.998 <sup>186</sup>	72.09 <sup>42</sup>	49.340 <sup>239</sup>	61.74 <sup>43</sup>	12.445 <sup>179</sup>	55.48 <sup>2</sup>	18.111 <sup>299</sup>	73.28 <sup>73</sup>
Okt. 7.2	22.812 <sup>170</sup>	71.67 <sup>70</sup>	49.101 <sup>215</sup>	61.31 <sup>68</sup>	12.266 <sup>162</sup>	55.46 <sup>1</sup>	17.812 <sup>281</sup>	72.55 <sup>123</sup>
17.2	22.642 <sup>144</sup>	70.97 <sup>100</sup>	48.886 <sup>180</sup>	60.63 <sup>90</sup>	12.104 <sup>134</sup>	55.47 <sup>7</sup>	17.531 <sup>252</sup>	71.32 <sup>169</sup>
27.1	22.498 <sup>111</sup>	69.97 <sup>128</sup>	48.706 <sup>133</sup>	59.73 <sup>106</sup>	11.970 <sup>99</sup>	55.54 <sup>12</sup>	17.279 <sup>211</sup>	69.63 <sup>214</sup>
Nov. 6.1	22.387 <sup>69</sup>	68.69 <sup>154</sup>	48.573 <sup>76</sup>	58.67 <sup>117</sup>	11.871 <sup>55</sup>	55.66 <sup>22</sup>	17.068 <sup>163</sup>	67.49 <sup>256</sup>
16.1	22.318 <sup>25</sup>	67.15 <sup>179</sup>	48.497 <sup>15</sup>	57.50 <sup>123</sup>	11.816 <sup>9</sup>	55.88 <sup>30</sup>	16.905 <sup>107</sup>	64.93 <sup>290</sup>
26.1	22.293 <sup>22</sup>	65.36 <sup>198</sup>	48.482 <sup>49</sup>	56.27 <sup>124</sup>	11.807 <sup>41</sup>	56.18 <sup>42</sup>	16.798 <sup>45</sup>	62.03 <sup>319</sup>
Dez. 6.0	22.315 <sup>71</sup>	63.38 <sup>215</sup>	48.531 <sup>113</sup>	55.03 <sup>119</sup>	11.848 <sup>90</sup>	56.60 <sup>52</sup>	16.753 <sup>17</sup>	58.84 <sup>339</sup>
16.0	22.386 <sup>116</sup>	61.23 <sup>225</sup>	48.644 <sup>175</sup>	53.84 <sup>109</sup>	11.938 <sup>137</sup>	57.12 <sup>62</sup>	16.770 <sup>80</sup>	55.45 <sup>348</sup>
26.0	22.502 <sup>159</sup>	58.98 <sup>228</sup>	48.819 <sup>230</sup>	52.75 <sup>95</sup>	12.075 <sup>179</sup>	57.74 <sup>70</sup>	16.850 <sup>142</sup>	51.97 <sup>347</sup>
35.9	22.661	56.70	49.049	51.80	12.254	58.44	16.992	48.50
Mittl. Ort sec 3, tr 2	21.555 1.025	53.72 +0.224	46.966 1.366	61.73 -0.931	10.566 1.037	65.08 -0.275	17.432 1.441	47.38 +1.037

Mittlere Zeit Greenw.	664) $\omega$ Draconis		661) $\eta$ Pavonis		665) $\beta$ Ophiuchi		670) $\psi$ Draconis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	17 <sup>h</sup> 37 <sup>m</sup>	+68° 47'	17 <sup>h</sup> 38 <sup>m</sup>	-64° 40'	17 <sup>h</sup> 39 <sup>m</sup>	+4° 35'	17 <sup>h</sup> 43 <sup>m</sup>	+72° 11'
Jan. 0.0	20.18	41.67	7.15	66.22	38.672	61.58	13.78	18.22
10.9	20.41	38.11	7.54	64.18	38.849	59.78	14.00	14.65
20.9	20.74	34.78	8.00	62.39	39.060	58.04	14.36	11.29
30.9	21.16	31.80	8.52	60.89	39.297	56.43	14.83	8.26
Feb. 9.8	21.67	29.27	9.09	59.71	39.554	55.02	15.40	5.68
19.8	22.24	27.30	9.70	58.87	39.826	53.86	16.06	3.64
März 1.8	22.86	25.94	10.34	58.38	40.106	53.00	16.77	2.21
11.8	23.51	25.25	10.98	58.24	40.390	52.48	17.52	1.44
21.7	24.15	25.24	11.62	58.44	40.673	52.31	18.27	1.34
31.7	24.79	25.90	12.26	58.97	40.951	52.49	19.01	1.92
Apr. 10.7	25.38	27.19	12.86	59.82	41.220	53.01	19.71	3.12
20.7	25.93	29.05	13.44	60.97	41.477	53.82	20.35	4.90
30.6	26.41	31.40	13.99	62.40	41.718	54.89	20.92	7.18
Mai 10.6	26.80	34.16	14.48	64.08	41.939	56.17	21.39	9.87
20.6	27.12	37.22	14.91	65.98	42.136	57.60	21.75	12.87
30.5	27.33	40.48	15.27	68.05	42.305	59.13	22.00	16.10
Juni 9.5	27.44	43.85	15.56	70.26	42.443	60.70	22.13	19.43
19.5	27.45	47.21	15.77	72.55	42.547	62.25	22.14	22.78
29.5	27.36	50.48	15.89	74.86	42.614	63.76	22.03	26.05
Juli 9.4	27.17	53.57	15.92	77.13	42.642	65.16	21.79	29.14
19.4	26.88	56.40	15.86	79.30	42.630	66.45	21.45	32.00
29.4	26.50	58.92	15.70	81.29	42.580	67.58	21.00	34.54
Aug. 8.4	26.05	61.05	15.47	83.05	42.493	68.54	20.46	36.72
18.3	25.52	62.76	15.17	84.52	42.373	69.31	19.84	38.47
28.3	24.95	64.00	14.79	85.62	42.226	69.89	19.15	39.76
Sept. 7.3	24.33	64.74	14.38	86.33	42.057	70.26	18.41	40.57
17.2	23.69	64.96	13.94	86.60	41.875	70.43	17.65	40.86
27.2	23.04	64.66	13.49	86.42	41.689	70.38	16.87	40.63
Okt. 7.2	22.42	63.83	13.05	85.79	41.508	70.11	16.11	39.87
17.2	21.81	62.48	12.65	84.73	41.343	69.62	15.38	38.59
27.1	21.26	60.62	12.31	83.28	41.202	68.91	14.70	36.80
Nov. 6.1	20.77	58.30	12.04	81.49	41.094	67.98	14.10	34.54
16.1	20.37	55.54	11.85	79.42	41.025	66.82	13.59	31.84
26.1	20.06	52.42	11.77	77.17	41.001	65.47	13.19	28.76
Dez. 6.0	19.86	49.01	11.80	74.82	41.023	63.93	12.91	25.39
16.0	19.77	45.39	11.93	72.46	41.092	62.24	12.77	21.80
26.0	19.79	41.70	12.16	70.17	41.206	60.46	12.77	18.12
35.9	19.95	38.03	12.49	68.03	41.361	58.63	12.91	14.44
Mittl. Ort sec $\delta$ , tg $\delta$	23.98 2.765	37.28 +2.577	10.25 2.339	80.08 -2.114	40.076 1.003	53.61 +0.080	18.23 3.269	13.36 +3.112



# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	667) $\mu$ Herenlis		671) $\xi$ Draconis		675) $\zeta$ Draconis		672) $\theta$ Herenlis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	17 <sup>h</sup> 43 <sup>m</sup>	+27° 45'	17 <sup>h</sup> 52 <sup>m</sup>	+56° 52'	17 <sup>h</sup> 52 <sup>m</sup>	+76° 58'	17 <sup>h</sup> 53 <sup>m</sup>	+37° 15'
Jan. 1.0	25.044 <sup>165</sup>	59.45 <sup>286</sup>	9.319 <sup>162</sup>	69.13 <sup>356</sup>	47.66 <sup>22</sup>	32.11 <sup>354</sup>	34.963 <sup>153</sup>	41.89 <sup>317</sup>
10.9	25.209 <sup>204</sup>	56.59 <sup>273</sup>	9.481 <sup>233</sup>	65.57 <sup>336</sup>	47.88 <sup>41</sup>	28.57 <sup>335</sup>	35.116 <sup>199</sup>	38.72 <sup>301</sup>
20.9	25.413 <sup>237</sup>	53.86 <sup>248</sup>	9.714 <sup>296</sup>	62.21 <sup>306</sup>	48.29 <sup>57</sup>	25.22 <sup>304</sup>	35.315 <sup>239</sup>	35.71 <sup>274</sup>
30.9	25.650 <sup>264</sup>	51.38 <sup>214</sup>	10.010 <sup>350</sup>	59.15 <sup>264</sup>	48.86 <sup>72</sup>	22.18 <sup>262</sup>	35.554 <sup>271</sup>	32.97 <sup>239</sup>
Feb. 9.9	25.914 <sup>283</sup>	49.24 <sup>173</sup>	10.360 <sup>392</sup>	56.51 <sup>212</sup>	49.58 <sup>84</sup>	19.56 <sup>211</sup>	35.825 <sup>297</sup>	30.58 <sup>192</sup>
19.8	26.197 <sup>296</sup>	47.51 <sup>124</sup>	10.752 <sup>423</sup>	54.39 <sup>153</sup>	50.42 <sup>93</sup>	17.45 <sup>151</sup>	36.122 <sup>314</sup>	28.66 <sup>140</sup>
März 1.8	26.493 <sup>302</sup>	46.27 <sup>72</sup>	11.175 <sup>442</sup>	52.86 <sup>88</sup>	51.35 <sup>98</sup>	15.94 <sup>87</sup>	36.436 <sup>325</sup>	27.26 <sup>82</sup>
11.8	26.795 <sup>303</sup>	45.55 <sup>18</sup>	11.617 <sup>448</sup>	51.98 <sup>22</sup>	52.33 <sup>101</sup>	15.07 <sup>21</sup>	36.761 <sup>329</sup>	26.44 <sup>23</sup>
21.7	27.098 <sup>298</sup>	45.37 <sup>36</sup>	12.065 <sup>443</sup>	51.76 <sup>45</sup>	53.34 <sup>99</sup>	14.86 <sup>46</sup>	37.090 <sup>325</sup>	26.21 <sup>37</sup>
31.7	27.396 <sup>288</sup>	45.73 <sup>87</sup>	12.508 <sup>426</sup>	52.21 <sup>108</sup>	54.33 <sup>94</sup>	15.32 <sup>109</sup>	37.415 <sup>315</sup>	26.58 <sup>93</sup>
Apr. 10.7	27.684 <sup>273</sup>	46.60 <sup>134</sup>	12.934 <sup>397</sup>	53.29 <sup>167</sup>	55.27 <sup>87</sup>	16.41 <sup>168</sup>	37.730 <sup>298</sup>	27.51 <sup>147</sup>
20.7	27.957 <sup>252</sup>	47.94 <sup>174</sup>	13.331 <sup>360</sup>	54.96 <sup>217</sup>	56.14 <sup>77</sup>	18.09 <sup>218</sup>	38.028 <sup>277</sup>	28.98 <sup>192</sup>
30.6	28.209 <sup>228</sup>	49.68 <sup>208</sup>	13.691 <sup>314</sup>	57.13 <sup>261</sup>	56.91 <sup>64</sup>	20.27 <sup>261</sup>	38.305 <sup>249</sup>	30.90 <sup>230</sup>
Mai 10.6	28.437 <sup>199</sup>	51.76 <sup>232</sup>	14.005 <sup>261</sup>	59.74 <sup>293</sup>	57.55 <sup>49</sup>	22.88 <sup>293</sup>	38.554 <sup>216</sup>	33.20 <sup>260</sup>
20.6	28.636 <sup>165</sup>	54.08 <sup>250</sup>	14.266 <sup>202</sup>	62.67 <sup>317</sup>	58.04 <sup>35</sup>	25.81 <sup>317</sup>	38.770 <sup>179</sup>	35.80 <sup>280</sup>
30.6	28.801 <sup>129</sup>	56.58 <sup>258</sup>	14.468 <sup>138</sup>	65.84 <sup>330</sup>	58.39 <sup>17</sup>	28.98 <sup>331</sup>	38.949 <sup>138</sup>	38.60 <sup>292</sup>
Juni 9.5	28.930 <sup>90</sup>	59.16 <sup>260</sup>	14.606 <sup>71</sup>	69.14 <sup>334</sup>	58.56 <sup>1</sup>	32.29 <sup>335</sup>	39.087 <sup>93</sup>	41.52 <sup>295</sup>
19.5	29.020 <sup>47</sup>	61.76 <sup>253</sup>	14.677 <sup>3</sup>	72.48 <sup>328</sup>	58.57 <sup>15</sup>	35.64 <sup>326</sup>	39.180 <sup>47</sup>	44.47 <sup>290</sup>
29.5	29.067 <sup>5</sup>	64.29 <sup>240</sup>	14.680 <sup>66</sup>	75.76 <sup>314</sup>	58.42 <sup>32</sup>	38.90 <sup>314</sup>	39.227 <sup>1</sup>	47.37 <sup>277</sup>
Juli 9.4	29.072 <sup>39</sup>	66.69 <sup>220</sup>	14.614 <sup>131</sup>	78.90 <sup>291</sup>	58.10 <sup>47</sup>	42.04 <sup>290</sup>	39.226 <sup>50</sup>	50.14 <sup>258</sup>
19.4	29.033 <sup>80</sup>	68.89 <sup>197</sup>	14.483 <sup>195</sup>	81.81 <sup>262</sup>	57.63 <sup>62</sup>	44.94 <sup>263</sup>	39.176 <sup>95</sup>	52.72 <sup>231</sup>
29.4	28.953 <sup>120</sup>	70.86 <sup>169</sup>	14.288 <sup>253</sup>	84.43 <sup>228</sup>	57.01 <sup>74</sup>	47.57 <sup>226</sup>	39.081 <sup>139</sup>	55.03 <sup>200</sup>
Aug. 8.4	28.833 <sup>155</sup>	72.55 <sup>136</sup>	14.035 <sup>304</sup>	86.71 <sup>187</sup>	56.27 <sup>85</sup>	49.83 <sup>187</sup>	38.942 <sup>177</sup>	57.03 <sup>166</sup>
18.3	28.678 <sup>184</sup>	73.91 <sup>101</sup>	13.731 <sup>346</sup>	88.58 <sup>142</sup>	55.42 <sup>94</sup>	51.70 <sup>142</sup>	38.765 <sup>211</sup>	58.69 <sup>126</sup>
28.3	28.494 <sup>206</sup>	74.92 <sup>65</sup>	13.385 <sup>379</sup>	90.00 <sup>95</sup>	54.48 <sup>101</sup>	53.12 <sup>95</sup>	38.554 <sup>236</sup>	59.95 <sup>85</sup>
Sept. 7.3	28.288 <sup>221</sup>	75.57 <sup>26</sup>	13.006 <sup>400</sup>	90.95 <sup>45</sup>	53.47 <sup>106</sup>	54.07 <sup>45</sup>	38.318 <sup>252</sup>	60.80 <sup>41</sup>
17.3	28.067 <sup>226</sup>	75.83 <sup>14</sup>	12.606 <sup>408</sup>	91.40 <sup>7</sup>	52.41 <sup>107</sup>	54.52 <sup>7</sup>	38.066 <sup>260</sup>	61.21 <sup>3</sup>
27.2	27.841 <sup>220</sup>	75.69 <sup>54</sup>	12.198 <sup>404</sup>	91.33 <sup>59</sup>	51.34 <sup>106</sup>	54.45 <sup>59</sup>	37.806 <sup>256</sup>	61.18 <sup>50</sup>
Okt. 7.2	27.621 <sup>206</sup>	75.15 <sup>93</sup>	11.794 <sup>386</sup>	90.74 <sup>112</sup>	50.28 <sup>103</sup>	53.86 <sup>112</sup>	37.550 <sup>242</sup>	60.68 <sup>95</sup>
17.2	27.415 <sup>180</sup>	74.22 <sup>133</sup>	11.408 <sup>354</sup>	89.62 <sup>162</sup>	49.25 <sup>96</sup>	52.74 <sup>162</sup>	37.308 <sup>218</sup>	59.73 <sup>139</sup>
27.1	27.235 <sup>148</sup>	72.89 <sup>171</sup>	11.054 <sup>311</sup>	88.00 <sup>210</sup>	48.29 <sup>87</sup>	51.12 <sup>210</sup>	37.090 <sup>183</sup>	58.34 <sup>183</sup>
Nov. 6.1	27.087 <sup>106</sup>	71.18 <sup>205</sup>	10.743 <sup>254</sup>	85.90 <sup>256</sup>	47.42 <sup>75</sup>	49.02 <sup>254</sup>	36.907 <sup>142</sup>	56.51 <sup>222</sup>
16.1	26.981 <sup>60</sup>	69.13 <sup>237</sup>	10.489 <sup>190</sup>	83.34 <sup>294</sup>	46.67 <sup>62</sup>	46.48 <sup>293</sup>	36.765 <sup>93</sup>	54.29 <sup>257</sup>
26.1	26.921 <sup>10</sup>	66.76 <sup>262</sup>	10.299 <sup>118</sup>	80.40 <sup>326</sup>	46.05 <sup>45</sup>	43.55 <sup>325</sup>	36.672 <sup>40</sup>	51.72 <sup>286</sup>
Dez. 6.0	26.911 <sup>41</sup>	64.14 <sup>281</sup>	10.181 <sup>40</sup>	77.14 <sup>350</sup>	45.60 <sup>27</sup>	40.30 <sup>348</sup>	36.632 <sup>15</sup>	48.86 <sup>308</sup>
16.0	26.952 <sup>91</sup>	61.33 <sup>292</sup>	10.141 <sup>38</sup>	73.64 <sup>362</sup>	45.33 <sup>9</sup>	36.82 <sup>361</sup>	36.647 <sup>70</sup>	45.78 <sup>321</sup>
26.0	27.043 <sup>138</sup>	58.41 <sup>294</sup>	10.179 <sup>116</sup>	70.02 <sup>363</sup>	45.24 <sup>11</sup>	33.21 <sup>361</sup>	36.717 <sup>123</sup>	42.57 <sup>323</sup>
36.0	27.181	55.47	10.295	66.39	45.35	29.60	36.840	39.34
Mittl. Ort sec $\delta$ , tg $\delta$	26.627 1.130	53.11 +0.526	11.824 1.830	63.42 +1.533	53.61 4.437	26.43 +4.323	36.710 1.256	35.54 +0.761

Mittlere Zeit Greenw.	673) $\nu$ Ophiuchi		676) $\gamma$ Draconis		677) $\delta$ Ophiuchi		679) $\gamma$ Sagittarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$17^h 54^m$	$-9^{\circ} 45'$	$17^h 54^m$	$+51^{\circ} 29'$	$17^h 56^m$	$+2^{\circ} 56'$	$18^h 0^m$	$-30^{\circ} 25'$
Jan. 1.0	45.763 <sub>176</sub>	46.36 <sub>96</sub>	46.852 <sub>155</sub>	56.42 <sub>349</sub>	45.867 <sub>163</sub>	10.86 <sub>168</sub>	49.970 <sub>197</sub>	25.19 <sub>31</sub>
10.9	45.939 <sub>209</sub>	47.32 <sub>96</sub>	47.007 <sub>215</sub>	52.93 <sub>331</sub>	46.030 <sub>197</sub>	9.18 <sub>162</sub>	50.167 <sub>236</sub>	24.88 <sub>24</sub>
20.9	46.148 <sub>236</sub>	48.28 <sub>92</sub>	47.222 <sub>269</sub>	49.62 <sub>302</sub>	46.227 <sub>225</sub>	7.56 <sub>152</sub>	50.403 <sub>267</sub>	24.64 <sub>16</sub>
30.9	46.384 <sub>258</sub>	49.20 <sub>83</sub>	47.491 <sub>316</sub>	46.60 <sub>261</sub>	46.452 <sub>247</sub>	6.04 <sub>133</sub>	50.670 <sub>292</sub>	24.48 <sub>10</sub>
Feb. 9.9	46.642 <sub>274</sub>	50.03 <sub>70</sub>	47.807 <sub>351</sub>	43.99 <sub>211</sub>	46.699 <sub>263</sub>	4.71 <sub>110</sub>	50.962 <sub>310</sub>	24.38 <sub>5</sub>
19.8	46.916 <sub>283</sub>	50.73 <sub>53</sub>	48.158 <sub>379</sub>	41.88 <sub>154</sub>	46.962 <sub>275</sub>	3.61 <sub>82</sub>	51.272 <sub>323</sub>	24.33 <sub>3</sub>
März 1.8	47.199 <sub>290</sub>	51.26 <sub>34</sub>	48.537 <sub>394</sub>	40.34 <sub>90</sub>	47.237 <sub>281</sub>	2.79 <sub>50</sub>	51.595 <sub>330</sub>	24.30 <sub>0</sub>
11.8	47.489 <sub>290</sub>	51.60 <sub>13</sub>	48.931 <sub>401</sub>	39.44 <sub>25</sub>	47.518 <sub>282</sub>	2.29 <sub>16</sub>	51.925 <sub>333</sub>	24.30 <sub>1</sub>
21.7	47.779 <sub>288</sub>	51.73 <sub>8</sub>	49.332 <sub>396</sub>	39.19 <sub>40</sub>	47.800 <sub>281</sub>	2.13 <sub>17</sub>	52.258 <sub>332</sub>	24.31 <sub>2</sub>
31.7	48.067 <sub>283</sub>	51.65 <sub>27</sub>	49.728 <sub>383</sub>	39.59 <sub>103</sub>	48.081 <sub>275</sub>	2.30 <sub>49</sub>	52.590 <sub>325</sub>	24.33 <sub>3</sub>
Apr. 10.7	48.350 <sub>272</sub>	51.38 <sub>46</sub>	50.111 <sub>359</sub>	40.62 <sub>160</sub>	48.356 <sub>264</sub>	2.79 <sub>78</sub>	52.915 <sub>316</sub>	24.36 <sub>5</sub>
20.7	48.622 <sub>259</sub>	50.92 <sub>60</sub>	50.470 <sub>329</sub>	42.22 <sub>211</sub>	48.620 <sub>252</sub>	3.57 <sub>103</sub>	53.231 <sub>301</sub>	24.41 <sub>8</sub>
30.6	48.881 <sub>241</sub>	50.32 <sub>71</sub>	50.799 <sub>290</sub>	44.33 <sub>253</sub>	48.872 <sub>233</sub>	4.60 <sub>123</sub>	53.532 <sub>282</sub>	24.49 <sub>13</sub>
Mai 10.6	49.122 <sub>219</sub>	49.61 <sub>79</sub>	51.089 <sub>246</sub>	46.86 <sub>286</sub>	49.105 <sub>211</sub>	5.83 <sub>138</sub>	53.814 <sub>258</sub>	24.62 <sub>19</sub>
20.6	49.341 <sub>194</sub>	48.82 <sub>83</sub>	51.335 <sub>193</sub>	49.72 <sub>310</sub>	49.316 <sub>185</sub>	7.21 <sub>149</sub>	54.072 <sub>229</sub>	24.81 <sub>24</sub>
30.6	49.535 <sub>162</sub>	47.99 <sub>83</sub>	51.528 <sub>141</sub>	52.82 <sub>323</sub>	49.501 <sub>155</sub>	8.70 <sub>151</sub>	54.301 <sub>195</sub>	25.05 <sub>33</sub>
Juni 9.5	49.697 <sub>129</sub>	47.16 <sub>80</sub>	51.669 <sub>82</sub>	56.05 <sub>327</sub>	49.656 <sub>120</sub>	10.21 <sub>151</sub>	54.496 <sub>155</sub>	25.38 <sub>38</sub>
19.5	49.826 <sub>91</sub>	46.36 <sub>74</sub>	51.751 <sub>21</sub>	59.32 <sub>322</sub>	49.776 <sub>84</sub>	11.72 <sub>147</sub>	54.651 <sub>113</sub>	25.76 <sub>46</sub>
29.5	49.917 <sub>51</sub>	45.62 <sub>68</sub>	51.772 <sub>39</sub>	62.54 <sub>308</sub>	49.860 <sub>44</sub>	13.19 <sub>136</sub>	54.764 <sub>67</sub>	26.22 <sub>50</sub>
Juli 9.4	49.968 <sub>10</sub>	44.94 <sub>59</sub>	51.733 <sub>98</sub>	65.62 <sub>287</sub>	49.904 <sub>4</sub>	14.55 <sub>125</sub>	54.831 <sub>20</sub>	26.72 <sub>54</sub>
19.4	49.978 <sub>31</sub>	44.35 <sub>49</sub>	51.635 <sub>154</sub>	68.49 <sub>259</sub>	49.908 <sub>36</sub>	15.80 <sub>111</sub>	54.851 <sub>28</sub>	27.26 <sub>54</sub>
29.4	49.947 <sub>70</sub>	43.86 <sub>41</sub>	51.481 <sub>208</sub>	71.08 <sub>225</sub>	49.872 <sub>75</sub>	16.91 <sub>93</sub>	54.823 <sub>73</sub>	27.80 <sub>52</sub>
Aug. 8.4	49.877 <sub>106</sub>	43.45 <sub>31</sub>	51.273 <sub>253</sub>	73.33 <sub>185</sub>	49.797 <sub>109</sub>	17.84 <sub>77</sub>	54.750 <sub>116</sub>	28.32 <sub>48</sub>
18.3	49.771 <sub>138</sub>	43.14 <sub>22</sub>	51.020 <sub>293</sub>	75.18 <sub>143</sub>	49.688 <sub>139</sub>	18.61 <sub>57</sub>	54.634 <sub>152</sub>	28.80 <sub>41</sub>
28.3	49.633 <sub>161</sub>	42.92 <sub>14</sub>	50.727 <sub>323</sub>	76.61 <sub>96</sub>	49.549 <sub>163</sub>	19.18 <sub>39</sub>	54.482 <sub>180</sub>	29.21 <sub>31</sub>
Sept. 7.3	49.472 <sub>177</sub>	42.78 <sub>6</sub>	50.404 <sub>343</sub>	77.57 <sub>48</sub>	49.386 <sub>179</sub>	19.57 <sub>18</sub>	54.302 <sub>200</sub>	29.52 <sub>19</sub>
17.3	49.295 <sub>184</sub>	42.72 <sub>1</sub>	50.061 <sub>351</sub>	78.05 <sub>3</sub>	49.207 <sub>185</sub>	19.75 <sub>1</sub>	54.102 <sub>209</sub>	29.71 <sub>6</sub>
27.2	49.111 <sub>181</sub>	42.73 <sub>10</sub>	49.710 <sub>348</sub>	78.02 <sub>55</sub>	49.022 <sub>183</sub>	19.74 <sub>21</sub>	53.893 <sub>207</sub>	29.77 <sub>8</sub>
Okt. 7.2	48.930 <sub>167</sub>	42.83 <sub>18</sub>	49.362 <sub>331</sub>	77.47 <sub>105</sub>	48.839 <sub>170</sub>	19.53 <sub>42</sub>	53.686 <sub>191</sub>	29.69 <sub>21</sub>
17.2	48.763 <sub>144</sub>	43.01 <sub>26</sub>	49.031 <sub>303</sub>	76.42 <sub>156</sub>	48.669 <sub>148</sub>	19.11 <sub>62</sub>	53.495 <sub>167</sub>	29.48 <sub>32</sub>
27.1	48.619 <sub>112</sub>	43.27 <sub>37</sub>	48.728 <sub>264</sub>	74.86 <sub>203</sub>	48.521 <sub>118</sub>	18.49 <sub>83</sub>	53.328 <sub>130</sub>	29.16 <sub>41</sub>
Nov. 6.1	48.507 <sub>73</sub>	43.64 <sub>48</sub>	48.464 <sub>214</sub>	72.83 <sub>247</sub>	48.403 <sub>80</sub>	17.66 <sub>104</sub>	53.198 <sub>87</sub>	28.75 <sub>48</sub>
16.1	48.434 <sub>29</sub>	44.12 <sub>59</sub>	48.250 <sub>156</sub>	70.36 <sub>286</sub>	48.323 <sub>37</sub>	16.62 <sub>123</sub>	53.111 <sub>37</sub>	28.27 <sub>50</sub>
26.1	48.405 <sub>18</sub>	44.71 <sub>71</sub>	48.094 <sub>92</sub>	67.50 <sub>317</sub>	48.286 <sub>8</sub>	15.39 <sub>139</sub>	53.074 <sub>17</sub>	27.77 <sub>50</sub>
Dez. 6.0	48.423 <sub>65</sub>	45.42 <sub>81</sub>	48.002 <sub>24</sub>	64.33 <sub>341</sub>	48.294 <sub>54</sub>	14.00 <sub>155</sub>	53.091 <sub>71</sub>	27.27 <sub>47</sub>
16.0	48.488 <sub>111</sub>	46.23 <sub>90</sub>	47.978 <sub>46</sub>	60.92 <sub>355</sub>	48.348 <sub>99</sub>	12.45 <sub>165</sub>	53.162 <sub>122</sub>	26.80 <sub>41</sub>
26.0	48.599 <sub>153</sub>	47.13 <sub>97</sub>	48.024 <sub>114</sub>	57.37 <sub>356</sub>	48.447 <sub>140</sub>	10.80 <sub>170</sub>	53.284 <sub>171</sub>	26.39 <sub>54</sub>
36.0	48.752	48.10	48.138	53.81	48.587	9.10	53.455	26.05
Mittl. Ort sec $\delta$ , tg $\delta$	47.204 1.015	55.39 -0.172	49.057 1.606	50.43 +1.257	47.287 1.001	2.67 +0.051	51.630 1.160	35.37 -0.587

Mittlere Zeit Greenw.	680) $\zeta$ Ophiuchi		681) $\sigma$ Herculis		682) $\mu$ Sagittarii		688) $\eta$ Serpentis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	18 <sup>h</sup> 3 <sup>m</sup>	+9° 33'	18 <sup>h</sup> 4 <sup>m</sup>	+28° 44'	18 <sup>h</sup> 9 <sup>m</sup>	-21° 4'	18 <sup>h</sup> 17 <sup>m</sup>	-2° 54'
Jan. 1.0	40.482 <sub>152</sub>	14.21 <sub>200</sub>	30.718 <sub>143</sub>	70.26 <sub>287</sub>	7.927 <sub>174</sub>	40.04 <sub>22</sub>	18.061 <sub>147</sub>	63.75 <sub>131</sub>
10.9	40.634 <sub>187</sub>	12.21 <sub>194</sub>	30.861 <sub>184</sub>	67.39 <sub>276</sub>	8.101 <sub>211</sub>	40.26 <sub>25</sub>	18.208 <sub>182</sub>	65.06 <sub>127</sub>
20.9	40.821 <sub>217</sub>	10.27 <sub>180</sub>	31.045 <sub>219</sub>	64.63 <sub>253</sub>	8.312 <sub>241</sub>	40.51 <sub>27</sub>	18.390 <sub>212</sub>	66.33 <sub>120</sub>
30.9	41.038 <sub>241</sub>	8.47 <sub>158</sub>	31.264 <sub>249</sub>	62.10 <sub>222</sub>	8.553 <sub>264</sub>	40.78 <sub>25</sub>	18.602 <sub>235</sub>	67.53 <sub>107</sub>
Feb. 9.9	41.279 <sub>258</sub>	6.89 <sub>130</sub>	31.513 <sub>272</sub>	59.88 <sub>182</sub>	8.817 <sub>283</sub>	41.03 <sub>22</sub>	18.837 <sub>253</sub>	68.60 <sub>88</sub>
19.8	41.537 <sub>272</sub>	5.59 <sub>96</sub>	31.785 <sub>289</sub>	58.06 <sub>134</sub>	9.100 <sub>295</sub>	41.25 <sub>16</sub>	19.090 <sub>268</sub>	69.48 <sub>65</sub>
März 1.8	41.809 <sub>279</sub>	4.63 <sub>59</sub>	32.074 <sub>300</sub>	56.72 <sub>83</sub>	9.395 <sub>304</sub>	41.41 <sub>8</sub>	19.358 <sub>276</sub>	70.13 <sub>40</sub>
11.8	42.088 <sub>283</sub>	4.04 <sub>19</sub>	32.374 <sub>304</sub>	55.89 <sub>28</sub>	9.699 <sub>307</sub>	41.49 <sub>1</sub>	19.634 <sub>282</sub>	70.53 <sub>12</sub>
21.8	42.371 <sub>282</sub>	3.85 <sub>20</sub>	32.678 <sub>304</sub>	55.61 <sub>26</sub>	10.006 <sub>307</sub>	41.48 <sub>9</sub>	19.916 <sub>283</sub>	70.65 <sub>16</sub>
31.7	42.653 <sub>276</sub>	4.05 <sub>59</sub>	32.982 <sub>297</sub>	55.87 <sub>79</sub>	10.313 <sub>304</sub>	41.39 <sub>18</sub>	20.199 <sub>280</sub>	70.49 <sub>42</sub>
Apr. 10.7	42.929 <sub>267</sub>	4.64 <sub>93</sub>	33.279 <sub>285</sub>	56.66 <sub>127</sub>	10.617 <sub>295</sub>	41.21 <sub>25</sub>	20.479 <sub>274</sub>	70.07 <sub>67</sub>
20.7	43.196 <sub>254</sub>	5.57 <sub>124</sub>	33.564 <sub>269</sub>	57.93 <sub>170</sub>	10.912 <sub>283</sub>	40.96 <sub>30</sub>	20.753 <sub>264</sub>	69.40 <sub>88</sub>
30.6	43.450 <sub>236</sub>	6.81 <sub>148</sub>	33.833 <sub>246</sub>	59.63 <sub>206</sub>	11.195 <sub>267</sub>	40.66 <sub>32</sub>	21.017 <sub>248</sub>	68.52 <sub>103</sub>
Mai 10.6	43.686 <sub>214</sub>	8.29 <sub>168</sub>	34.079 <sub>218</sub>	61.69 <sub>235</sub>	11.462 <sub>246</sub>	40.34 <sub>32</sub>	21.265 <sub>229</sub>	67.49 <sub>116</sub>
20.6	43.900 <sub>188</sub>	9.97 <sub>180</sub>	34.297 <sub>187</sub>	64.04 <sub>254</sub>	11.708 <sub>219</sub>	40.02 <sub>29</sub>	21.494 <sub>204</sub>	66.33 <sub>123</sub>
30.6	44.088 <sub>156</sub>	11.77 <sub>186</sub>	34.484 <sub>150</sub>	66.58 <sub>266</sub>	11.927 <sub>188</sub>	39.73 <sub>25</sub>	21.698 <sub>175</sub>	65.10 <sub>125</sub>
Juni 9.5	44.244 <sub>122</sub>	13.63 <sub>188</sub>	34.634 <sub>111</sub>	69.24 <sub>269</sub>	12.115 <sub>153</sub>	39.48 <sub>20</sub>	21.873 <sub>143</sub>	63.85 <sub>124</sub>
19.5	44.366 <sub>84</sub>	15.51 <sub>182</sub>	34.745 <sub>69</sub>	71.93 <sub>266</sub>	12.268 <sub>113</sub>	39.28 <sub>12</sub>	22.016 <sub>105</sub>	62.61 <sub>118</sub>
29.5	44.450 <sub>45</sub>	17.33 <sub>172</sub>	34.814 <sub>24</sub>	74.59 <sub>254</sub>	12.381 <sub>71</sub>	39.16 <sub>6</sub>	22.121 <sub>66</sub>	61.43 <sub>110</sub>
Juli 9.5	44.495 <sub>4</sub>	19.05 <sub>159</sub>	34.838 <sub>21</sub>	77.13 <sub>238</sub>	12.452 <sub>27</sub>	39.10 <sub>1</sub>	22.187 <sub>24</sub>	60.33 <sub>98</sub>
19.4	44.499 <sub>37</sub>	20.64 <sub>142</sub>	34.817 <sub>64</sub>	79.51 <sub>215</sub>	12.479 <sub>18</sub>	39.11 <sub>6</sub>	22.211 <sub>17</sub>	59.35 <sub>86</sub>
29.4	44.462 <sub>75</sub>	22.06 <sub>123</sub>	34.753 <sub>106</sub>	81.66 <sub>187</sub>	12.461 <sub>61</sub>	39.17 <sub>11</sub>	22.194 <sub>57</sub>	58.49 <sub>71</sub>
Aug. 8.4	44.387 <sub>111</sub>	23.29 <sub>100</sub>	34.647 <sub>144</sub>	83.53 <sub>156</sub>	12.400 <sub>100</sub>	39.28 <sub>13</sub>	22.137 <sub>95</sub>	57.78 <sub>57</sub>
18.3	44.276 <sub>142</sub>	24.29 <sub>78</sub>	34.503 <sub>176</sub>	85.09 <sub>122</sub>	12.300 <sub>136</sub>	39.41 <sub>14</sub>	22.042 <sub>127</sub>	57.21 <sub>42</sub>
28.3	44.134 <sub>166</sub>	25.07 <sub>53</sub>	34.327 <sub>202</sub>	86.31 <sub>85</sub>	12.164 <sub>163</sub>	39.55 <sub>13</sub>	21.915 <sub>155</sub>	56.79 <sub>28</sub>
Sept. 7.3	43.968 <sub>183</sub>	25.60 <sub>28</sub>	34.125 <sub>220</sub>	87.16 <sub>47</sub>	12.001 <sub>183</sub>	39.68 <sub>11</sub>	21.760 <sub>173</sub>	56.51 <sub>12</sub>
17.3	43.785 <sub>191</sub>	25.88 <sub>2</sub>	33.905 <sub>228</sub>	87.63 <sub>6</sub>	11.818 <sub>192</sub>	39.79 <sub>7</sub>	21.587 <sub>183</sub>	56.39 <sub>2</sub>
27.2	43.594 <sub>189</sub>	25.90 <sub>24</sub>	33.677 <sub>226</sub>	87.69 <sub>34</sub>	11.626 <sub>191</sub>	39.86 <sub>4</sub>	21.404 <sub>184</sub>	56.41 <sub>16</sub>
Okt. 7.2	43.405 <sub>178</sub>	25.66 <sub>51</sub>	33.451 <sub>215</sub>	87.35 <sub>76</sub>	11.435 <sub>180</sub>	39.90 <sub>0</sub>	21.220 <sub>174</sub>	56.57 <sub>31</sub>
17.2	43.227 <sub>157</sub>	25.15 <sub>77</sub>	33.236 <sub>194</sub>	86.59 <sub>116</sub>	11.255 <sub>157</sub>	39.90 <sub>3</sub>	21.046 <sub>155</sub>	56.88 <sub>46</sub>
27.2	43.070 <sub>128</sub>	24.38 <sub>102</sub>	33.042 <sub>163</sub>	85.43 <sub>155</sub>	11.098 <sub>125</sub>	39.87 <sub>4</sub>	20.891 <sub>127</sub>	57.34 <sub>62</sub>
Nov. 6.1	42.942 <sub>90</sub>	23.36 <sub>128</sub>	32.879 <sub>125</sub>	83.88 <sub>191</sub>	10.973 <sub>85</sub>	39.83 <sub>4</sub>	20.764 <sub>91</sub>	57.96 <sub>76</sub>
16.1	42.852 <sub>50</sub>	22.08 <sub>151</sub>	32.754 <sub>81</sub>	81.97 <sub>225</sub>	10.888 <sub>41</sub>	39.79 <sub>1</sub>	20.673 <sub>52</sub>	58.72 <sub>92</sub>
26.1	42.802 <sub>4</sub>	20.57 <sub>171</sub>	32.673 <sub>33</sub>	79.72 <sub>252</sub>	10.847 <sub>8</sub>	39.78 <sub>4</sub>	20.621 <sub>6</sub>	59.64 <sub>105</sub>
Dez. 6.0	42.798 <sub>41</sub>	18.86 <sub>187</sub>	32.640 <sub>18</sub>	77.20 <sub>274</sub>	10.855 <sub>58</sub>	39.82 <sub>9</sub>	20.615 <sub>38</sub>	60.69 <sub>118</sub>
16.0	42.839 <sub>87</sub>	16.99 <sub>199</sub>	32.658 <sub>67</sub>	74.46 <sub>288</sub>	10.913 <sub>106</sub>	39.91 <sub>15</sub>	20.653 <sub>82</sub>	61.87 <sub>127</sub>
26.0	42.926 <sub>129</sub>	15.00 <sub>203</sub>	32.725 <sub>116</sub>	71.58 <sub>292</sub>	11.019 <sub>150</sub>	40.06 <sub>21</sub>	20.735 <sub>125</sub>	63.14 <sub>132</sub>
36.0	43.055	12.97	32.841	68.66	11.169	40.27	20.860	64.46
Mittl. Ort sec $\delta$ , tg $\delta$	41.919 1.014	6.33 +0.168	32.309 1.141	63.11 +0.549	9.477 1.072	49.36 -0.386	19.503 1.001	72.14 -0.051



Mittlere Zeit Greenw.	689) $\epsilon$ Sagittarii		690) $\iota$ Herculis		691) $\alpha$ Telescopii		695) $\gamma$ Draconis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	18 <sup>h</sup> 19 <sup>m</sup>	-34° 25'	18 <sup>h</sup> 20 <sup>m</sup>	+21° 43'	18 <sup>h</sup> 21 <sup>m</sup>	-46° 0'	18 <sup>h</sup> 22 <sup>m</sup>	+72° 41'
Jan. 1.0	1.876 <sup>183</sup>	11.23 <sup>65</sup>	23.477 <sup>130</sup>	68.66 <sup>257</sup>	13.719 <sup>206</sup>	34.58 <sup>135</sup>	22.46 <sup>10</sup>	67.33 <sup>361</sup>
11.0	2.059 <sup>226</sup>	10.58 <sup>57</sup>	23.607 <sup>168</sup>	66.09 <sup>248</sup>	13.925 <sup>257</sup>	33.23 <sup>124</sup>	22.56 <sup>24</sup>	63.72 <sup>350</sup>
20.9	2.285 <sup>261</sup>	10.01 <sup>50</sup>	23.775 <sup>203</sup>	63.61 <sup>231</sup>	14.182 <sup>300</sup>	31.99 <sup>112</sup>	22.80 <sup>38</sup>	60.22 <sup>327</sup>
30.9	2.546 <sup>290</sup>	9.51 <sup>43</sup>	23.978 <sup>231</sup>	61.30 <sup>204</sup>	14.482 <sup>335</sup>	30.87 <sup>97</sup>	23.18 <sup>49</sup>	56.95 <sup>290</sup>
Feb. 9.9	2.836 <sup>311</sup>	9.08 <sup>36</sup>	24.209 <sup>253</sup>	59.26 <sup>170</sup>	14.817 <sup>363</sup>	29.90 <sup>81</sup>	23.67 <sup>60</sup>	54.05 <sup>245</sup>
19.8	3.147 <sup>328</sup>	8.72 <sup>30</sup>	24.462 <sup>272</sup>	57.56 <sup>128</sup>	15.180 <sup>383</sup>	29.09 <sup>65</sup>	24.27 <sup>67</sup>	51.60 <sup>180</sup>
März 1.8	3.475 <sup>338</sup>	8.42 <sup>25</sup>	24.734 <sup>284</sup>	56.28 <sup>82</sup>	15.563 <sup>397</sup>	28.44 <sup>49</sup>	24.94 <sup>73</sup>	49.71 <sup>128</sup>
11.8	3.813 <sup>345</sup>	8.17 <sup>19</sup>	25.018 <sup>291</sup>	55.46 <sup>34</sup>	15.960 <sup>404</sup>	27.95 <sup>32</sup>	25.67 <sup>77</sup>	48.43 <sup>62</sup>
21.8	4.158 <sup>347</sup>	7.98 <sup>14</sup>	25.309 <sup>292</sup>	55.12 <sup>18</sup>	16.364 <sup>408</sup>	27.63 <sup>15</sup>	26.44 <sup>78</sup>	47.81 <sup>6</sup>
31.7	4.505 <sup>344</sup>	7.84 <sup>9</sup>	25.601 <sup>290</sup>	55.30 <sup>64</sup>	16.772 <sup>404</sup>	27.48 <sup>1</sup>	27.22 <sup>75</sup>	47.87 <sup>70</sup>
Apr. 10.7	4.849 <sup>336</sup>	7.75 <sup>2</sup>	25.891 <sup>282</sup>	55.94 <sup>110</sup>	17.176 <sup>395</sup>	27.49 <sup>20</sup>	27.97 <sup>72</sup>	48.57 <sup>133</sup>
20.7	5.185 <sup>324</sup>	7.73 <sup>5</sup>	26.173 <sup>269</sup>	57.04 <sup>150</sup>	17.571 <sup>380</sup>	27.69 <sup>37</sup>	28.69 <sup>65</sup>	49.90 <sup>188</sup>
30.7	5.509 <sup>307</sup>	7.78 <sup>14</sup>	26.442 <sup>251</sup>	58.54 <sup>183</sup>	17.951 <sup>360</sup>	28.06 <sup>55</sup>	29.34 <sup>58</sup>	51.78 <sup>237</sup>
Mai 10.6	5.816 <sup>284</sup>	7.92 <sup>24</sup>	26.693 <sup>228</sup>	60.37 <sup>210</sup>	18.311 <sup>331</sup>	28.61 <sup>73</sup>	29.92 <sup>48</sup>	54.15 <sup>276</sup>
20.6	6.100 <sup>255</sup>	8.16 <sup>34</sup>	26.921 <sup>200</sup>	62.47 <sup>228</sup>	18.642 <sup>297</sup>	29.34 <sup>89</sup>	30.40 <sup>36</sup>	56.91 <sup>306</sup>
30.6	6.355 <sup>221</sup>	8.50 <sup>44</sup>	27.121 <sup>167</sup>	64.75 <sup>241</sup>	18.939 <sup>256</sup>	30.23 <sup>105</sup>	30.76 <sup>26</sup>	59.97 <sup>327</sup>
Juni 9.5	6.576 <sup>180</sup>	8.94 <sup>55</sup>	27.288 <sup>131</sup>	67.16 <sup>244</sup>	19.195 <sup>208</sup>	31.28 <sup>117</sup>	31.02 <sup>12</sup>	63.24 <sup>337</sup>
19.5	6.756 <sup>137</sup>	9.49 <sup>63</sup>	27.419 <sup>91</sup>	69.60 <sup>242</sup>	19.403 <sup>157</sup>	32.45 <sup>128</sup>	31.14 <sup>0</sup>	66.61 <sup>339</sup>
29.5	6.893 <sup>89</sup>	10.12 <sup>71</sup>	27.510 <sup>49</sup>	72.02 <sup>233</sup>	19.560 <sup>99</sup>	33.73 <sup>135</sup>	31.14 <sup>13</sup>	70.00 <sup>331</sup>
Juli 9.5	6.982 <sup>38</sup>	10.83 <sup>75</sup>	27.559 <sup>5</sup>	74.35 <sup>218</sup>	19.659 <sup>41</sup>	35.08 <sup>138</sup>	31.01 <sup>24</sup>	73.31 <sup>314</sup>
19.4	7.020 <sup>11</sup>	11.58 <sup>78</sup>	27.564 <sup>38</sup>	76.53 <sup>198</sup>	19.700 <sup>19</sup>	36.46 <sup>136</sup>	30.77 <sup>37</sup>	76.45 <sup>291</sup>
29.4	7.009 <sup>62</sup>	12.36 <sup>75</sup>	27.526 <sup>79</sup>	78.51 <sup>174</sup>	19.681 <sup>78</sup>	37.82 <sup>129</sup>	30.40 <sup>47</sup>	79.36 <sup>262</sup>
Aug. 8.4	6.947 <sup>107</sup>	13.11 <sup>71</sup>	27.447 <sup>117</sup>	80.25 <sup>147</sup>	19.603 <sup>131</sup>	39.11 <sup>117</sup>	29.93 <sup>57</sup>	81.98 <sup>224</sup>
18.4	6.840 <sup>148</sup>	13.82 <sup>62</sup>	27.330 <sup>151</sup>	81.72 <sup>117</sup>	19.472 <sup>179</sup>	40.28 <sup>101</sup>	29.36 <sup>65</sup>	84.22 <sup>184</sup>
28.3	6.692 <sup>181</sup>	14.44 <sup>50</sup>	27.179 <sup>179</sup>	82.89 <sup>84</sup>	19.293 <sup>219</sup>	41.29 <sup>86</sup>	28.71 <sup>72</sup>	86.06 <sup>138</sup>
Sept. 7.3	6.511 <sup>205</sup>	14.94 <sup>36</sup>	27.000 <sup>198</sup>	83.73 <sup>51</sup>	19.074 <sup>246</sup>	42.09 <sup>55</sup>	27.99 <sup>76</sup>	87.44 <sup>90</sup>
17.3	6.306 <sup>218</sup>	15.30 <sup>20</sup>	26.802 <sup>208</sup>	84.24 <sup>15</sup>	18.828 <sup>263</sup>	42.64 <sup>27</sup>	27.23 <sup>79</sup>	88.34 <sup>38</sup>
27.2	6.088 <sup>218</sup>	15.50 <sup>1</sup>	26.594 <sup>209</sup>	84.39 <sup>21</sup>	18.565 <sup>264</sup>	42.91 <sup>2</sup>	26.44 <sup>80</sup>	88.72 <sup>14</sup>
Okt. 7.2	5.870 <sup>208</sup>	15.51 <sup>16</sup>	26.385 <sup>201</sup>	84.18 <sup>57</sup>	18.301 <sup>252</sup>	42.89 <sup>31</sup>	25.64 <sup>79</sup>	88.58 <sup>68</sup>
17.2	5.662 <sup>184</sup>	15.35 <sup>32</sup>	26.184 <sup>183</sup>	83.61 <sup>93</sup>	18.049 <sup>225</sup>	42.58 <sup>60</sup>	24.85 <sup>74</sup>	87.90 <sup>121</sup>
27.2	5.478 <sup>150</sup>	15.03 <sup>48</sup>	26.001 <sup>155</sup>	82.68 <sup>128</sup>	17.824 <sup>187</sup>	41.98 <sup>84</sup>	24.11 <sup>69</sup>	86.69 <sup>173</sup>
Nov. 6.1	5.328 <sup>107</sup>	14.55 <sup>59</sup>	25.846 <sup>120</sup>	81.40 <sup>161</sup>	17.637 <sup>137</sup>	41.14 <sup>107</sup>	23.42 <sup>62</sup>	84.96 <sup>223</sup>
16.1	5.221 <sup>57</sup>	13.96 <sup>67</sup>	25.726 <sup>79</sup>	79.79 <sup>192</sup>	17.500 <sup>79</sup>	40.07 <sup>123</sup>	22.80 <sup>51</sup>	82.73 <sup>266</sup>
26.1	5.164 <sup>4</sup>	13.29 <sup>72</sup>	25.647 <sup>35</sup>	77.87 <sup>218</sup>	17.421 <sup>16</sup>	38.84 <sup>134</sup>	22.29 <sup>39</sup>	80.07 <sup>304</sup>
Dez. 6.1	5.160 <sup>52</sup>	12.57 <sup>72</sup>	25.612 <sup>12</sup>	75.69 <sup>239</sup>	17.405 <sup>49</sup>	37.50 <sup>140</sup>	21.90 <sup>27</sup>	77.03 <sup>355</sup>
16.0	5.212 <sup>105</sup>	11.85 <sup>71</sup>	25.624 <sup>59</sup>	73.30 <sup>254</sup>	17.454 <sup>113</sup>	36.10 <sup>141</sup>	21.63 <sup>13</sup>	73.68 <sup>355</sup>
26.0	5.317 <sup>157</sup>	11.14 <sup>65</sup>	25.683 <sup>104</sup>	70.76 <sup>260</sup>	17.567 <sup>173</sup>	34.69 <sup>137</sup>	21.50 <sup>1</sup>	70.13 <sup>364</sup>
36.0	5.474	10.49	25.787	68.16	17.740	33.32	21.51	66.49
Mittl. Ort sec $\delta$ , tg $\delta$	3.660 1.212	20.66 -0.685	24.981 1.077	60.83 +0.399	15.851 1.440	44.29 -1.036	26.79 3.363	59.30 +3.211

Mittlere Zeit Greenw.	694) <i>b</i> Draconis		698) $\zeta$ Pavonis		699) $\alpha$ Lyrae		703) $\Pi$ Herculis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	18 <sup>h</sup> 22 <sup>m</sup>	+58° 45'	18 <sup>h</sup> 33 <sup>m</sup>	-71° 29'	18 <sup>h</sup> 34 <sup>m</sup>	+38° 42'	18 <sup>h</sup> 42 <sup>m</sup>	+20° 28'
Jan. 1.0	44.645 <sub>107</sub>	28.31 <sub>358</sub>	57.95 <sub>33</sub>	38.61 <sub>268</sub>	18.152 <sub>103</sub>	48.43 <sub>317</sub>	19.371 <sub>107</sub>	25.96 <sub>247</sub>
11.0	44.752 <sub>185</sub>	24.73 <sub>346</sub>	58.28 <sub>45</sub>	35.93 <sub>255</sub>	18.255 <sub>153</sub>	45.26 <sub>308</sub>	19.478 <sub>147</sub>	23.49 <sub>241</sub>
20.9	44.937 <sub>255</sub>	21.27 <sub>323</sub>	58.73 <sub>55</sub>	33.38 <sub>234</sub>	18.408 <sub>197</sub>	42.18 <sub>289</sub>	19.625 <sub>181</sub>	21.08 <sub>227</sub>
30.9	45.192 <sub>319</sub>	18.04 <sub>286</sub>	59.28 <sub>64</sub>	31.04 <sub>207</sub>	18.605 <sub>236</sub>	39.29 <sub>258</sub>	19.806 <sub>212</sub>	18.81 <sub>202</sub>
Feb. 9.9	45.511 <sub>372</sub>	15.18 <sub>241</sub>	59.92 <sub>71</sub>	28.97 <sub>177</sub>	18.841 <sub>268</sub>	36.71 <sub>218</sub>	20.018 <sub>237</sub>	16.79 <sub>171</sub>
19.9	45.883 <sub>415</sub>	12.77 <sub>185</sub>	60.63 <sub>77</sub>	27.20 <sub>143</sub>	19.109 <sub>295</sub>	34.53 <sub>169</sub>	20.255 <sub>257</sub>	15.08 <sub>132</sub>
März 1.8	46.298 <sub>444</sub>	10.92 <sub>123</sub>	61.40 <sub>81</sub>	25.77 <sub>107</sub>	19.404 <sub>314</sub>	32.84 <sub>114</sub>	20.512 <sub>274</sub>	13.76 <sub>88</sub>
11.8	46.742 <sub>461</sub>	9.69 <sub>57</sub>	62.21 <sub>84</sub>	24.70 <sub>69</sub>	19.718 <sub>327</sub>	31.70 <sub>55</sub>	20.786 <sub>283</sub>	12.88 <sub>41</sub>
21.8	47.203 <sub>467</sub>	9.12 <sub>9</sub>	63.05 <sub>85</sub>	24.01 <sub>30</sub>	20.045 <sub>332</sub>	31.15 <sub>5</sub>	21.069 <sub>290</sub>	12.47 <sub>8</sub>
31.7	47.670 <sub>458</sub>	9.21 <sub>75</sub>	63.90 <sub>84</sub>	23.71 <sub>8</sub>	20.377 <sub>331</sub>	31.20 <sub>63</sub>	21.359 <sub>291</sub>	12.55 <sub>56</sub>
Apr. 10.7	48.128 <sub>438</sub>	9.96 <sub>136</sub>	64.74 <sub>82</sub>	23.79 <sub>47</sub>	20.708 <sub>322</sub>	31.83 <sub>120</sub>	21.650 <sub>286</sub>	13.11 <sub>100</sub>
20.7	48.566 <sub>406</sub>	11.32 <sub>191</sub>	65.56 <sub>80</sub>	24.26 <sub>85</sub>	21.030 <sub>308</sub>	33.03 <sub>170</sub>	21.936 <sub>278</sub>	14.11 <sub>140</sub>
30.7	48.972 <sub>365</sub>	13.23 <sub>239</sub>	66.36 <sub>74</sub>	25.11 <sub>120</sub>	21.338 <sub>285</sub>	34.73 <sub>214</sub>	22.214 <sub>263</sub>	15.51 <sub>175</sub>
Mai 10.6	49.337 <sub>314</sub>	15.62 <sub>278</sub>	67.10 <sub>67</sub>	26.31 <sub>154</sub>	21.623 <sub>257</sub>	36.87 <sub>249</sub>	22.477 <sub>243</sub>	17.26 <sub>202</sub>
20.6	49.651 <sub>255</sub>	18.40 <sub>308</sub>	67.77 <sub>60</sub>	27.85 <sub>183</sub>	21.880 <sub>223</sub>	39.36 <sub>277</sub>	22.720 <sub>217</sub>	19.28 <sub>224</sub>
30.6	49.906 <sub>191</sub>	21.48 <sub>328</sub>	68.37 <sub>51</sub>	29.68 <sub>210</sub>	22.103 <sub>183</sub>	42.13 <sub>294</sub>	22.937 <sub>187</sub>	21.52 <sub>236</sub>
Juni 9.6	50.097 <sub>121</sub>	24.76 <sub>338</sub>	68.88 <sub>41</sub>	31.78 <sub>231</sub>	22.286 <sub>140</sub>	45.07 <sub>305</sub>	23.124 <sub>152</sub>	23.88 <sub>242</sub>
19.5	50.218 <sub>49</sub>	28.14 <sub>339</sub>	69.29 <sub>29</sub>	34.09 <sub>245</sub>	22.426 <sub>92</sub>	48.12 <sub>306</sub>	23.276 <sub>112</sub>	26.30 <sub>242</sub>
29.5	50.267 <sub>25</sub>	31.53 <sub>330</sub>	69.58 <sub>17</sub>	36.54 <sub>255</sub>	22.518 <sub>42</sub>	51.18 <sub>299</sub>	23.388 <sub>71</sub>	28.72 <sub>234</sub>
Juli 9.5	50.242 <sub>97</sub>	34.83 <sub>314</sub>	69.75 <sub>5</sub>	39.09 <sub>255</sub>	22.560 <sub>9</sub>	54.17 <sub>284</sub>	23.459 <sub>27</sub>	31.06 <sub>221</sub>
19.4	50.145 <sub>167</sub>	37.97 <sub>290</sub>	69.80 <sub>8</sub>	41.64 <sub>249</sub>	22.551 <sub>59</sub>	57.01 <sub>263</sub>	23.486 <sub>16</sub>	33.27 <sub>203</sub>
29.4	49.978 <sub>233</sub>	40.87 <sub>259</sub>	69.72 <sub>21</sub>	44.13 <sub>234</sub>	22.492 <sub>107</sub>	59.64 <sub>236</sub>	23.470 <sub>60</sub>	35.30 <sub>181</sub>
Aug. 8.4	49.745 <sub>293</sub>	43.46 <sub>224</sub>	69.51 <sub>32</sub>	46.47 <sub>212</sub>	22.385 <sub>152</sub>	62.00 <sub>204</sub>	23.410 <sub>100</sub>	37.11 <sub>155</sub>
18.4	49.452 <sub>343</sub>	45.70 <sub>181</sub>	69.19 <sub>42</sub>	48.59 <sub>182</sub>	22.233 <sub>191</sub>	64.04 <sub>168</sub>	23.310 <sub>136</sub>	38.66 <sub>126</sub>
28.3	49.109 <sub>384</sub>	47.51 <sub>137</sub>	68.77 <sub>50</sub>	50.41 <sub>144</sub>	22.042 <sub>223</sub>	65.72 <sub>128</sub>	23.174 <sub>166</sub>	39.92 <sub>96</sub>
Sept. 7.3	48.725 <sub>414</sub>	48.88 <sub>87</sub>	68.27 <sub>58</sub>	51.85 <sub>102</sub>	21.819 <sub>247</sub>	67.00 <sub>86</sub>	23.008 <sub>189</sub>	40.88 <sub>62</sub>
17.3	48.311 <sub>431</sub>	49.75 <sub>37</sub>	67.69 <sub>61</sub>	52.87 <sub>54</sub>	21.572 <sub>262</sub>	67.86 <sub>41</sub>	22.819 <sub>202</sub>	41.50 <sub>29</sub>
27.3	47.880 <sub>435</sub>	50.12 <sub>16</sub>	67.08 <sub>62</sub>	53.41 <sub>4</sub>	21.310 <sub>265</sub>	68.27 <sub>5</sub>	22.617 <sub>207</sub>	41.79 <sub>6</sub>
Okt. 7.2	47.445 <sub>425</sub>	49.96 <sub>69</sub>	66.46 <sub>60</sub>	53.45 <sub>47</sub>	21.045 <sub>260</sub>	68.22 <sub>52</sub>	22.410 <sub>202</sub>	41.73 <sub>42</sub>
17.2	47.020 <sub>400</sub>	49.27 <sub>122</sub>	65.86 <sub>57</sub>	52.98 <sub>98</sub>	20.785 <sub>242</sub>	67.70 <sub>99</sub>	22.208 <sub>187</sub>	41.31 <sub>76</sub>
27.2	46.620 <sub>362</sub>	48.05 <sub>174</sub>	65.29 <sub>49</sub>	52.00 <sub>144</sub>	20.543 <sub>215</sub>	66.71 <sub>144</sub>	22.021 <sub>164</sub>	40.55 <sub>111</sub>
Nov. 6.1	46.258 <sub>312</sub>	46.31 <sub>222</sub>	64.80 <sub>40</sub>	50.56 <sub>185</sub>	20.328 <sub>179</sub>	65.27 <sub>188</sub>	21.857 <sub>132</sub>	39.44 <sub>144</sub>
16.1	45.946 <sub>251</sub>	44.09 <sub>266</sub>	64.40 <sub>28</sub>	48.71 <sub>220</sub>	20.149 <sub>136</sub>	63.39 <sub>227</sub>	21.725 <sub>94</sub>	38.00 <sub>175</sub>
26.1	45.695 <sub>181</sub>	41.43 <sub>303</sub>	64.12 <sub>15</sub>	46.51 <sub>246</sub>	20.013 <sub>88</sub>	61.12 <sub>262</sub>	21.631 <sub>52</sub>	36.25 <sub>202</sub>
Dec. 6.1	45.514 <sub>105</sub>	38.40 <sub>333</sub>	63.97 <sub>2</sub>	44.05 <sub>264</sub>	19.925 <sub>35</sub>	58.50 <sub>290</sub>	21.579 <sub>8</sub>	34.23 <sub>224</sub>
16.0	45.409 <sub>24</sub>	35.07 <sub>353</sub>	63.95 <sub>11</sub>	41.41 <sub>271</sub>	19.890 <sub>19</sub>	55.60 <sub>309</sub>	21.571 <sub>38</sub>	31.99 <sub>240</sub>
26.0	45.385 <sub>58</sub>	31.54 <sub>360</sub>	64.06 <sub>26</sub>	38.70 <sub>271</sub>	19.909 <sub>72</sub>	52.51 <sub>318</sub>	21.609 <sub>82</sub>	29.59 <sub>248</sub>
36.0	45.443	27.94	64.32	35.99	19.981	49.33	21.691	27.11
Mittl. Ort sec. $\delta$ , tg $\delta$	47.181 1.928	20.45 +1.648	62.72 3.151	48.01 -2.988	19.870 1.281	40.09 +0.801	20.845 1.067	17.60 +0.373

Mittlere Zeit Greenw.	704) $\lambda$ Pavonis		705) $\beta$ Lyrae		707) $\sigma$ Draconis		706) $\sigma$ Sagittarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	18 <sup>h</sup> 45 <sup>m</sup>	-62° 16'	18 <sup>h</sup> 47 <sup>m</sup>	+33° 16'	18 <sup>h</sup> 50 <sup>m</sup>	+59° 17'	18 <sup>h</sup> 50 <sup>m</sup>	-26° 23'
Jan. 1.0	1.87 <sub>22</sub>	31.70 <sub>232</sub>	12.615 <sub>93</sub>	29.56 <sub>297</sub>	1.535 <sub>56</sub>	47.54 <sub>355</sub>	27.794 <sub>138</sub>	30.01 <sub>26</sub>
11.0	2.09 <sub>30</sub>	29.38 <sub>223</sub>	12.708 <sub>137</sub>	26.59 <sub>291</sub>	1.591 <sub>135</sub>	43.99 <sub>351</sub>	27.932 <sub>177</sub>	29.75 <sub>27</sub>
20.9	2.39 <sub>38</sub>	27.15 <sub>208</sub>	12.845 <sub>178</sub>	23.68 <sub>275</sub>	1.726 <sub>211</sub>	40.48 <sub>332</sub>	28.109 <sub>212</sub>	29.48 <sub>25</sub>
30.9	2.77 <sub>44</sub>	25.07 <sub>188</sub>	13.023 <sub>216</sub>	20.93 <sub>248</sub>	1.937 <sub>279</sub>	37.16 <sub>304</sub>	28.321 <sub>241</sub>	29.23 <sub>25</sub>
Feb. 9.9	3.21 <sub>49</sub>	23.19 <sub>164</sub>	13.239 <sub>246</sub>	18.45 <sub>211</sub>	2.216 <sub>340</sub>	34.12 <sub>262</sub>	28.562 <sub>266</sub>	28.98 <sub>28</sub>
19.9	3.70 <sub>52</sub>	21.55 <sub>138</sub>	13.485 <sub>272</sub>	16.34 <sub>165</sub>	2.556 <sub>390</sub>	31.50 <sub>211</sub>	28.828 <sub>285</sub>	28.70 <sub>30</sub>
März 1.8	4.22 <sub>56</sub>	20.17 <sub>110</sub>	13.757 <sub>292</sub>	14.69 <sub>115</sub>	2.946 <sub>429</sub>	29.39 <sub>153</sub>	29.113 <sub>300</sub>	28.40 <sub>34</sub>
11.8	4.78 <sub>58</sub>	19.07 <sub>79</sub>	14.049 <sub>306</sub>	13.54 <sub>60</sub>	3.375 <sub>456</sub>	27.86 <sub>89</sub>	29.413 <sub>310</sub>	28.06 <sub>38</sub>
21.8	5.36 <sub>59</sub>	18.28 <sub>47</sub>	14.355 <sub>313</sub>	12.94 <sub>2</sub>	3.831 <sub>470</sub>	26.97 <sub>24</sub>	29.723 <sub>318</sub>	27.68 <sub>41</sub>
31.8	5.95 <sub>59</sub>	17.81 <sub>16</sub>	14.668 <sub>316</sub>	12.92 <sub>53</sub>	4.301 <sub>472</sub>	26.73 <sub>43</sub>	30.041 <sub>321</sub>	27.27 <sub>44</sub>
Apr. 10.7	6.54 <sub>58</sub>	17.65 <sub>16</sub>	14.984 <sub>310</sub>	13.45 <sub>107</sub>	4.773 <sub>459</sub>	27.16 <sub>106</sub>	30.362 <sub>319</sub>	26.83 <sub>45</sub>
20.7	7.12 <sub>56</sub>	17.81 <sub>49</sub>	15.294 <sub>299</sub>	14.52 <sub>156</sub>	5.232 <sub>436</sub>	28.22 <sub>165</sub>	30.681 <sub>313</sub>	26.38 <sub>43</sub>
30.7	7.68 <sub>54</sub>	18.30 <sub>80</sub>	15.593 <sub>282</sub>	16.08 <sub>198</sub>	5.668 <sub>400</sub>	29.87 <sub>216</sub>	30.994 <sub>302</sub>	25.95 <sub>41</sub>
Mai 10.6	8.22 <sub>49</sub>	19.10 <sub>110</sub>	15.875 <sub>258</sub>	18.06 <sub>233</sub>	6.068 <sub>355</sub>	32.03 <sub>260</sub>	31.296 <sub>285</sub>	25.54 <sub>34</sub>
20.6	8.71 <sub>45</sub>	20.20 <sub>138</sub>	16.133 <sub>229</sub>	20.39 <sub>260</sub>	6.423 <sub>301</sub>	34.63 <sub>295</sub>	31.581 <sub>261</sub>	25.20 <sub>26</sub>
30.6	9.16 <sub>39</sub>	21.58 <sub>163</sub>	16.362 <sub>194</sub>	22.99 <sub>279</sub>	6.724 <sub>237</sub>	37.58 <sub>321</sub>	31.842 <sub>233</sub>	24.94 <sub>17</sub>
Juni 9.6	9.55 <sub>33</sub>	23.21 <sub>185</sub>	16.556 <sub>153</sub>	25.78 <sub>288</sub>	6.961 <sub>170</sub>	40.79 <sub>336</sub>	32.075 <sub>199</sub>	24.77 <sub>6</sub>
19.5	9.88 <sub>24</sub>	25.06 <sub>201</sub>	16.709 <sub>110</sub>	28.66 <sub>291</sub>	7.131 <sub>97</sub>	44.15 <sub>343</sub>	32.274 <sub>159</sub>	24.71 <sub>6</sub>
29.5	10.12 <sub>16</sub>	27.07 <sub>212</sub>	16.819 <sub>63</sub>	31.57 <sub>285</sub>	7.228 <sub>22</sub>	47.58 <sub>341</sub>	32.433 <sub>116</sub>	24.77 <sub>16</sub>
Juli 9.5	10.28 <sub>8</sub>	29.19 <sub>217</sub>	16.882 <sub>15</sub>	34.42 <sub>273</sub>	7.250 <sub>54</sub>	50.99 <sub>329</sub>	32.549 <sub>69</sub>	24.93 <sub>27</sub>
19.5	10.36 <sub>1</sub>	31.36 <sub>216</sub>	16.897 <sub>33</sub>	37.15 <sub>254</sub>	7.196 <sub>127</sub>	54.28 <sub>311</sub>	32.618 <sub>20</sub>	25.20 <sub>35</sub>
29.4	10.35 <sub>10</sub>	33.52 <sub>207</sub>	16.864 <sub>80</sub>	39.69 <sub>229</sub>	7.069 <sub>198</sub>	57.39 <sub>284</sub>	32.638 <sub>27</sub>	25.55 <sub>41</sub>
Aug. 8.4	10.25 <sub>19</sub>	35.59 <sub>191</sub>	16.784 <sub>124</sub>	41.98 <sub>200</sub>	6.871 <sub>263</sub>	60.23 <sub>252</sub>	32.611 <sub>72</sub>	25.96 <sub>45</sub>
18.4	10.06 <sub>25</sub>	37.50 <sub>168</sub>	16.660 <sub>163</sub>	43.98 <sub>165</sub>	6.608 <sub>320</sub>	62.75 <sub>215</sub>	32.539 <sub>114</sub>	26.41 <sub>46</sub>
28.3	9.81 <sub>32</sub>	39.18 <sub>138</sub>	16.497 <sub>196</sub>	45.63 <sub>130</sub>	6.288 <sub>367</sub>	64.90 <sub>171</sub>	32.425 <sub>150</sub>	26.87 <sub>43</sub>
Sept. 7.3	9.49 <sub>37</sub>	40.56 <sub>102</sub>	16.301 <sub>220</sub>	46.93 <sub>90</sub>	5.921 <sub>405</sub>	66.61 <sub>125</sub>	32.275 <sub>176</sub>	27.30 <sub>38</sub>
17.3	9.12 <sub>40</sub>	41.58 <sub>63</sub>	16.081 <sub>236</sub>	47.83 <sub>48</sub>	5.516 <sub>429</sub>	67.86 <sub>76</sub>	32.099 <sub>193</sub>	27.68 <sub>32</sub>
27.3	8.72 <sub>41</sub>	42.21 <sub>19</sub>	15.845 <sub>243</sub>	48.31 <sub>5</sub>	5.087 <sub>440</sub>	68.62 <sub>23</sub>	31.906 <sub>200</sub>	28.00 <sub>22</sub>
Okt. 7.2	8.31 <sub>41</sub>	42.40 <sub>25</sub>	15.602 <sub>238</sub>	48.36 <sub>39</sub>	4.647 <sub>437</sub>	68.85 <sub>30</sub>	31.706 <sub>195</sub>	28.22 <sub>12</sub>
17.2	7.90 <sub>37</sub>	42.15 <sub>68</sub>	15.364 <sub>224</sub>	47.97 <sub>83</sub>	4.210 <sub>419</sub>	68.55 <sub>84</sub>	31.511 <sub>180</sub>	28.34 <sub>3</sub>
27.2	7.53 <sub>33</sub>	41.47 <sub>111</sub>	15.140 <sub>201</sub>	47.14 <sub>126</sub>	3.791 <sub>390</sub>	67.71 <sub>137</sub>	31.331 <sub>154</sub>	28.37 <sub>7</sub>
Nov. 6.2	7.20 <sub>26</sub>	40.36 <sub>147</sub>	14.939 <sub>167</sub>	45.88 <sub>168</sub>	3.401 <sub>346</sub>	66.34 <sub>189</sub>	31.177 <sub>118</sub>	28.30 <sub>15</sub>
16.1	6.94 <sub>19</sub>	38.89 <sub>179</sub>	14.772 <sub>129</sub>	44.20 <sub>205</sub>	3.055 <sub>292</sub>	64.45 <sub>236</sub>	31.059 <sub>77</sub>	28.15 <sub>20</sub>
26.1	6.75 <sub>10</sub>	37.10 <sub>204</sub>	14.643 <sub>84</sub>	42.15 <sub>239</sub>	2.763 <sub>226</sub>	62.09 <sub>278</sub>	30.982 <sub>31</sub>	27.95 <sub>24</sub>
Dez. 6.1	6.65 <sub>1</sub>	35.06 <sub>221</sub>	14.559 <sub>36</sub>	39.76 <sub>267</sub>	2.537 <sub>154</sub>	59.31 <sub>314</sub>	30.951 <sub>17</sub>	27.71 <sub>27</sub>
16.0	6.64 <sub>8</sub>	32.85 <sub>231</sub>	14.523 <sub>14</sub>	37.09 <sub>287</sub>	2.383 <sub>76</sub>	56.17 <sub>339</sub>	30.968 <sub>66</sub>	27.44 <sub>25</sub>
26.0	6.72 <sub>17</sub>	30.54 <sub>232</sub>	14.537 <sub>63</sub>	34.22 <sub>298</sub>	2.307 <sub>5</sub>	52.78 <sub>353</sub>	31.034 <sub>112</sub>	27.19 <sub>26</sub>
36.0	6.89	28.22	14.600	31.24	2.312	49.25	31.146	26.93
Mittl. Ort	5.17	39.90	14.211	20.78	3.981	37.83	29.478	37.64
sec $\delta$ , tg $\delta$	2.150	-1.903	1.196	+0.656	1.958	+1.684	1.116	-0.496



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	708) $\lambda$ Telescopii		709) $\delta$ Serpentis pr.		711) $R$ Lyrae		713) $\gamma$ Lyrae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$18^h 52^m$	$-53^{\circ} 2'$	$18^h 52^m$	$+4^{\circ} 6'$	$18^h 52^m$	$+43^{\circ} 50'$	$18^h 56^m$	$+32^{\circ} 34'$
Jan. 1.0	15.747 <sup>179</sup>	19.39 <sup>187</sup>	22.068 <sup>109</sup>	15.98 <sup>159</sup>	57.757 <sup>75</sup>	47.24 <sup>327</sup>	2.198 <sup>83</sup>	67.96 <sup>292</sup>
11.0	15.926 <sup>241</sup>	17.52 <sup>182</sup>	22.177 <sup>146</sup>	14.39 <sup>155</sup>	57.832 <sup>128</sup>	43.97 <sup>323</sup>	2.281 <sup>128</sup>	65.04 <sup>288</sup>
21.0	16.167 <sup>295</sup>	15.70 <sup>171</sup>	22.323 <sup>177</sup>	12.84 <sup>146</sup>	57.960 <sup>179</sup>	40.74 <sup>307</sup>	2.409 <sup>168</sup>	62.16 <sup>273</sup>
30.9	16.462 <sup>341</sup>	13.99 <sup>157</sup>	22.500 <sup>205</sup>	11.38 <sup>129</sup>	58.139 <sup>224</sup>	37.67 <sup>278</sup>	2.577 <sup>206</sup>	59.43 <sup>248</sup>
Feb. 9.9	16.803 <sup>379</sup>	12.42 <sup>141</sup>	22.705 <sup>228</sup>	10.09 <sup>108</sup>	58.363 <sup>264</sup>	34.89 <sup>240</sup>	2.783 <sup>238</sup>	56.95 <sup>212</sup>
19.9	17.182 <sup>411</sup>	11.01 <sup>122</sup>	22.933 <sup>247</sup>	9.01 <sup>80</sup>	58.627 <sup>296</sup>	32.49 <sup>191</sup>	3.021 <sup>264</sup>	54.83 <sup>169</sup>
März 1.8	17.593 <sup>434</sup>	9.79 <sup>101</sup>	23.180 <sup>262</sup>	8.21 <sup>49</sup>	58.923 <sup>322</sup>	30.58 <sup>137</sup>	3.285 <sup>286</sup>	53.14 <sup>118</sup>
11.8	18.027 <sup>451</sup>	8.78 <sup>79</sup>	23.442 <sup>272</sup>	7.72 <sup>15</sup>	59.245 <sup>340</sup>	29.21 <sup>77</sup>	3.571 <sup>301</sup>	51.96 <sup>65</sup>
21.8	18.478 <sup>461</sup>	7.99 <sup>56</sup>	23.714 <sup>280</sup>	7.57 <sup>19</sup>	59.585 <sup>351</sup>	28.44 <sup>15</sup>	3.872 <sup>310</sup>	51.31 <sup>8</sup>
31.8	18.939 <sup>464</sup>	7.43 <sup>33</sup>	23.994 <sup>282</sup>	7.76 <sup>53</sup>	59.936 <sup>354</sup>	28.29 <sup>46</sup>	4.182 <sup>314</sup>	51.23 <sup>48</sup>
Apr. 10.7	19.403 <sup>461</sup>	7.10 <sup>7</sup>	24.276 <sup>282</sup>	8.29 <sup>84</sup>	60.290 <sup>348</sup>	28.75 <sup>106</sup>	4.496 <sup>311</sup>	51.71 <sup>101</sup>
20.7	19.864 <sup>451</sup>	7.03 <sup>18</sup>	24.558 <sup>275</sup>	9.13 <sup>112</sup>	60.638 <sup>335</sup>	29.81 <sup>159</sup>	4.807 <sup>301</sup>	52.72 <sup>149</sup>
30.7	20.315 <sup>432</sup>	7.21 <sup>43</sup>	24.833 <sup>265</sup>	10.25 <sup>135</sup>	60.973 <sup>313</sup>	31.40 <sup>207</sup>	5.108 <sup>286</sup>	54.21 <sup>192</sup>
Mai 10.7	20.747 <sup>405</sup>	7.64 <sup>69</sup>	25.098 <sup>248</sup>	11.60 <sup>152</sup>	61.286 <sup>286</sup>	33.47 <sup>248</sup>	5.394 <sup>264</sup>	56.13 <sup>229</sup>
20.6	21.152 <sup>369</sup>	8.33 <sup>94</sup>	25.346 <sup>227</sup>	13.12 <sup>164</sup>	61.572 <sup>249</sup>	35.95 <sup>279</sup>	5.658 <sup>236</sup>	58.42 <sup>257</sup>
30.6	21.521 <sup>326</sup>	9.27 <sup>116</sup>	25.573 <sup>201</sup>	14.76 <sup>170</sup>	61.821 <sup>208</sup>	38.74 <sup>302</sup>	5.894 <sup>202</sup>	60.99 <sup>275</sup>
Juni 9.6	21.847 <sup>275</sup>	10.43 <sup>136</sup>	25.774 <sup>168</sup>	16.46 <sup>171</sup>	62.029 <sup>162</sup>	41.76 <sup>316</sup>	6.096 <sup>162</sup>	63.74 <sup>287</sup>
19.5	22.122 <sup>217</sup>	11.79 <sup>153</sup>	25.942 <sup>133</sup>	18.17 <sup>168</sup>	62.191 <sup>111</sup>	44.92 <sup>321</sup>	6.258 <sup>120</sup>	66.61 <sup>290</sup>
29.5	22.339 <sup>152</sup>	13.32 <sup>165</sup>	26.075 <sup>94</sup>	19.85 <sup>159</sup>	62.302 <sup>56</sup>	48.13 <sup>316</sup>	6.378 <sup>73</sup>	69.51 <sup>286</sup>
Juli 9.5	22.491 <sup>85</sup>	14.97 <sup>173</sup>	26.169 <sup>51</sup>	21.44 <sup>147</sup>	62.358 <sup>2</sup>	51.29 <sup>306</sup>	6.451 <sup>26</sup>	72.37 <sup>273</sup>
19.5	22.576 <sup>15</sup>	16.70 <sup>175</sup>	26.220 <sup>9</sup>	22.91 <sup>132</sup>	62.360 <sup>53</sup>	54.35 <sup>287</sup>	6.477 <sup>23</sup>	75.10 <sup>256</sup>
29.4	22.591 <sup>55</sup>	18.45 <sup>172</sup>	26.229 <sup>33</sup>	24.23 <sup>114</sup>	62.307 <sup>106</sup>	57.22 <sup>261</sup>	6.454 <sup>70</sup>	77.66 <sup>233</sup>
Aug. 8.4	22.536 <sup>121</sup>	20.17 <sup>161</sup>	26.196 <sup>74</sup>	25.37 <sup>96</sup>	62.201 <sup>155</sup>	59.83 <sup>231</sup>	6.384 <sup>114</sup>	79.99 <sup>203</sup>
18.4	22.415 <sup>181</sup>	21.78 <sup>145</sup>	26.122 <sup>109</sup>	26.33 <sup>75</sup>	62.046 <sup>200</sup>	62.14 <sup>195</sup>	6.270 <sup>155</sup>	82.02 <sup>171</sup>
28.4	22.234 <sup>232</sup>	23.23 <sup>123</sup>	26.013 <sup>140</sup>	27.08 <sup>55</sup>	61.846 <sup>236</sup>	64.09 <sup>155</sup>	6.115 <sup>188</sup>	83.73 <sup>136</sup>
Sept. 7.3	22.002 <sup>272</sup>	24.46 <sup>95</sup>	25.873 <sup>165</sup>	27.63 <sup>34</sup>	61.610 <sup>265</sup>	65.64 <sup>112</sup>	5.927 <sup>214</sup>	85.09 <sup>97</sup>
17.3	21.730 <sup>299</sup>	25.41 <sup>63</sup>	25.708 <sup>179</sup>	27.97 <sup>13</sup>	61.345 <sup>284</sup>	66.76 <sup>66</sup>	5.713 <sup>231</sup>	86.06 <sup>55</sup>
27.3	21.431 <sup>309</sup>	26.04 <sup>28</sup>	25.529 <sup>184</sup>	28.10 <sup>9</sup>	61.061 <sup>292</sup>	67.42 <sup>18</sup>	5.482 <sup>239</sup>	86.61 <sup>13</sup>
Okt. 7.2	21.122 <sup>305</sup>	26.32 <sup>8</sup>	25.345 <sup>182</sup>	28.01 <sup>30</sup>	60.769 <sup>289</sup>	67.60 <sup>31</sup>	5.243 <sup>236</sup>	86.74 <sup>30</sup>
17.2	20.817 <sup>284</sup>	26.24 <sup>45</sup>	25.163 <sup>167</sup>	27.71 <sup>50</sup>	60.480 <sup>276</sup>	67.29 <sup>81</sup>	5.007 <sup>224</sup>	86.44 <sup>75</sup>
27.2	20.533 <sup>248</sup>	25.79 <sup>79</sup>	24.996 <sup>146</sup>	27.21 <sup>72</sup>	60.204 <sup>251</sup>	66.48 <sup>129</sup>	4.783 <sup>201</sup>	85.69 <sup>116</sup>
Nov. 6.2	20.285 <sup>199</sup>	25.00 <sup>111</sup>	24.850 <sup>116</sup>	26.49 <sup>92</sup>	59.953 <sup>217</sup>	65.19 <sup>177</sup>	4.582 <sup>171</sup>	84.53 <sup>159</sup>
16.1	20.086 <sup>140</sup>	23.89 <sup>138</sup>	24.734 <sup>79</sup>	25.57 <sup>111</sup>	59.736 <sup>175</sup>	63.42 <sup>220</sup>	4.411 <sup>133</sup>	82.94 <sup>197</sup>
26.1	19.946 <sup>72</sup>	22.51 <sup>159</sup>	24.655 <sup>40</sup>	24.46 <sup>128</sup>	59.561 <sup>127</sup>	61.22 <sup>258</sup>	4.278 <sup>90</sup>	80.97 <sup>231</sup>
Dez. 6.1	19.874 <sup>1</sup>	20.92 <sup>174</sup>	24.615 <sup>2</sup>	23.18 <sup>144</sup>	59.434 <sup>72</sup>	58.64 <sup>290</sup>	4.188 <sup>43</sup>	78.66 <sup>259</sup>
16.1	19.873 <sup>70</sup>	19.18 <sup>184</sup>	24.617 <sup>45</sup>	21.74 <sup>154</sup>	59.362 <sup>17</sup>	55.74 <sup>314</sup>	4.145 <sup>5</sup>	76.07 <sup>281</sup>
26.0	19.943 <sup>140</sup>	17.34 <sup>186</sup>	24.662 <sup>86</sup>	20.20 <sup>160</sup>	59.345 <sup>40</sup>	52.60 <sup>327</sup>	4.150 <sup>54</sup>	73.26 <sup>292</sup>
36.0	20.083	15.48	24.748	18.60	59.385	49.33	4.204	70.34
Mittl. Ort sec $\delta$ , tg $\delta$	18.325 1.663	26.86 -1.329	23.496 1.003	7.89 +0.072	59.543 1.386	37.88 +0.960	3.765 1.187	58.89 +0.639

Mittlere Zeit Greenw.	716) $\zeta$ Aquilae		717) $\lambda$ Aquilae		718) $\alpha$ Coron. austr.		720) $\pi$ Sagittarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	19 <sup>h</sup> 1 <sup>m</sup>	+13° 44'	19 <sup>h</sup> 2 <sup>m</sup>	-4° 59'	19 <sup>h</sup> 4 <sup>m</sup>	-38° 1'	19 <sup>h</sup> 5 <sup>m</sup>	-21° 8'
Jan. 1.0	50.821 <sub>92</sub>	60.79 <sub>208</sub>	8.314 <sub>107</sub>	49.38 <sub>102</sub>	12.132 <sub>136</sub>	26.61 <sub>103</sub>	9.511 <sub>117</sub>	43.35 <sub>1</sub>
11.0	50.913 <sub>131</sub>	58.71 <sub>205</sub>	8.421 <sub>143</sub>	50.40 <sub>101</sub>	12.268 <sub>181</sub>	25.58 <sub>103</sub>	9.628 <sub>155</sub>	43.36 <sub>1</sub>
21.0	51.044 <sub>164</sub>	56.66 <sub>194</sub>	8.564 <sub>174</sub>	51.41 <sub>94</sub>	12.449 <sub>223</sub>	24.55 <sub>99</sub>	9.783 <sub>189</sub>	43.37 <sub>2</sub>
30.9	51.208 <sub>194</sub>	54.72 <sub>174</sub>	8.738 <sub>203</sub>	52.35 <sub>81</sub>	12.672 <sub>257</sub>	23.56 <sub>95</sub>	9.972 <sub>219</sub>	43.35 <sub>6</sub>
Feb. 9.9	51.402 <sub>220</sub>	52.98 <sub>148</sub>	8.941 <sub>225</sub>	53.16 <sub>66</sub>	12.929 <sub>287</sub>	22.61 <sub>90</sub>	10.191 <sub>245</sub>	43.29 <sub>13</sub>
19.9	51.622 <sub>241</sub>	51.50 <sub>114</sub>	9.166 <sub>246</sub>	53.82 <sub>45</sub>	13.216 <sub>312</sub>	21.71 <sub>84</sub>	10.434 <sub>264</sub>	43.16 <sub>20</sub>
März 1.9	51.863 <sub>259</sub>	50.36 <sub>75</sub>	9.412 <sub>261</sub>	54.27 <sub>22</sub>	13.528 <sub>331</sub>	20.87 <sub>78</sub>	10.698 <sub>280</sub>	42.96 <sub>29</sub>
11.8	52.122 <sub>272</sub>	49.61 <sub>35</sub>	9.673 <sub>273</sub>	54.49 <sub>4</sub>	13.859 <sub>346</sub>	20.09 <sub>70</sub>	10.978 <sub>294</sub>	42.67 <sub>39</sub>
21.8	52.394 <sub>280</sub>	49.26 <sub>8</sub>	9.946 <sub>281</sub>	54.45 <sub>30</sub>	14.205 <sub>356</sub>	19.39 <sub>62</sub>	11.272 <sub>302</sub>	42.28 <sub>48</sub>
31.8	52.674 <sub>286</sub>	49.34 <sub>51</sub>	10.227 <sub>286</sub>	54.15 <sub>54</sub>	14.561 <sub>362</sub>	18.77 <sub>53</sub>	11.574 <sub>308</sub>	41.80 <sub>56</sub>
Apr. 10.7	52.960 <sub>285</sub>	49.85 <sub>91</sub>	10.513 <sub>286</sub>	53.61 <sub>76</sub>	14.923 <sub>362</sub>	18.24 <sub>42</sub>	11.882 <sub>309</sub>	41.24 <sub>63</sub>
20.7	53.245 <sub>279</sub>	50.76 <sub>126</sub>	10.799 <sub>283</sub>	52.85 <sub>96</sub>	15.285 <sub>357</sub>	17.82 <sub>29</sub>	12.191 <sub>305</sub>	40.61 <sub>66</sub>
30.7	53.524 <sub>269</sub>	52.02 <sub>157</sub>	11.082 <sub>273</sub>	51.89 <sub>112</sub>	15.642 <sub>346</sub>	17.53 <sub>15</sub>	12.496 <sub>297</sub>	39.95 <sub>67</sub>
Mai 10.7	53.793 <sub>254</sub>	53.59 <sub>182</sub>	11.355 <sub>260</sub>	50.77 <sub>122</sub>	15.988 <sub>329</sub>	17.38 <sub>1</sub>	12.793 <sub>282</sub>	39.28 <sub>64</sub>
20.6	54.047 <sub>231</sub>	55.41 <sub>201</sub>	11.615 <sub>239</sub>	49.55 <sub>129</sub>	16.317 <sub>305</sub>	17.39 <sub>17</sub>	13.075 <sub>262</sub>	38.64 <sub>60</sub>
30.6	54.278 <sub>204</sub>	57.42 <sub>212</sub>	11.854 <sub>214</sub>	48.26 <sub>130</sub>	16.622 <sub>273</sub>	17.56 <sub>34</sub>	13.337 <sub>236</sub>	38.04 <sub>51</sub>
Juni 9.6	54.482 <sub>172</sub>	59.54 <sub>217</sub>	12.068 <sub>184</sub>	46.96 <sub>128</sub>	16.895 <sub>236</sub>	17.90 <sub>51</sub>	13.573 <sub>204</sub>	37.53 <sub>43</sub>
19.6	54.654 <sub>136</sub>	61.71 <sub>217</sub>	12.252 <sub>148</sub>	45.68 <sub>121</sub>	17.131 <sub>192</sub>	18.41 <sub>67</sub>	13.777 <sub>166</sub>	37.10 <sub>31</sub>
29.5	54.790 <sub>94</sub>	63.88 <sub>209</sub>	12.400 <sub>109</sub>	44.47 <sub>111</sub>	17.323 <sub>143</sub>	19.08 <sub>80</sub>	13.943 <sub>125</sub>	36.79 <sub>18</sub>
Juli 9.5	54.884 <sub>52</sub>	65.97 <sub>198</sub>	12.509 <sub>67</sub>	43.36 <sub>100</sub>	17.466 <sub>91</sub>	19.88 <sub>92</sub>	14.068 <sub>80</sub>	36.61 <sub>7</sub>
19.5	54.936 <sub>9</sub>	67.95 <sub>182</sub>	12.576 <sub>23</sub>	42.36 <sub>86</sub>	17.557 <sub>35</sub>	20.80 <sub>99</sub>	14.148 <sub>33</sub>	36.54 <sub>4</sub>
29.4	54.945 <sub>34</sub>	69.77 <sub>162</sub>	12.599 <sub>20</sub>	41.50 <sub>71</sub>	17.592 <sub>19</sub>	21.79 <sub>103</sub>	14.181 <sub>12</sub>	36.58 <sub>14</sub>
Aug. 8.4	54.911 <sub>76</sub>	71.39 <sub>140</sub>	12.579 <sub>61</sub>	40.79 <sub>57</sub>	17.573 <sub>71</sub>	22.82 <sub>102</sub>	14.169 <sub>58</sub>	36.72 <sub>22</sub>
18.4	54.835 <sub>113</sub>	72.79 <sub>114</sub>	12.518 <sub>99</sub>	40.22 <sub>40</sub>	17.502 <sub>120</sub>	23.84 <sub>98</sub>	14.111 <sub>99</sub>	36.94 <sub>27</sub>
28.4	54.722 <sub>145</sub>	73.93 <sub>88</sub>	12.419 <sub>131</sub>	39.82 <sub>26</sub>	17.382 <sub>161</sub>	24.82 <sub>88</sub>	14.012 <sub>135</sub>	37.21 <sub>31</sub>
Sept. 7.3	54.577 <sub>169</sub>	74.81 <sub>60</sub>	12.288 <sub>157</sub>	39.56 <sub>13</sub>	17.221 <sub>195</sub>	25.70 <sub>74</sub>	13.877 <sub>162</sub>	37.52 <sub>31</sub>
17.3	54.408 <sub>186</sub>	75.41 <sub>31</sub>	12.131 <sub>174</sub>	39.43 <sub>2</sub>	17.026 <sub>217</sub>	26.44 <sub>56</sub>	13.715 <sub>182</sub>	37.83 <sub>30</sub>
27.3	54.222 <sub>194</sub>	75.72 <sub>1</sub>	11.957 <sub>180</sub>	39.45 <sub>14</sub>	16.809 <sub>228</sub>	27.00 <sub>36</sub>	13.533 <sub>190</sub>	38.13 <sub>27</sub>
Okt. 7.3	54.028 <sub>191</sub>	75.73 <sub>28</sub>	11.777 <sub>179</sub>	39.59 <sub>26</sub>	16.581 <sub>226</sub>	27.36 <sub>14</sub>	13.343 <sub>188</sub>	38.40 <sub>22</sub>
17.2	53.837 <sub>180</sub>	75.45 <sub>58</sub>	11.598 <sub>166</sub>	39.85 <sub>38</sub>	16.355 <sub>211</sub>	27.50 <sub>8</sub>	13.155 <sub>176</sub>	38.62 <sub>17</sub>
27.2	53.657 <sub>160</sub>	74.87 <sub>87</sub>	11.432 <sub>146</sub>	40.23 <sub>50</sub>	16.144 <sub>186</sub>	27.42 <sub>30</sub>	12.979 <sub>154</sub>	38.79 <sub>13</sub>
Nov. 6.2	53.497 <sub>130</sub>	74.00 <sub>115</sub>	11.286 <sub>116</sub>	40.73 <sub>62</sub>	15.958 <sub>149</sub>	27.12 <sub>50</sub>	12.825 <sub>122</sub>	38.92 <sub>8</sub>
16.1	53.367 <sub>97</sub>	72.85 <sub>142</sub>	11.170 <sub>81</sub>	41.35 <sub>73</sub>	15.809 <sub>104</sub>	26.62 <sub>67</sub>	12.703 <sub>85</sub>	39.00 <sub>7</sub>
26.1	53.270 <sub>58</sub>	71.43 <sub>166</sub>	11.089 <sub>42</sub>	42.08 <sub>84</sub>	15.705 <sub>54</sub>	25.95 <sub>81</sub>	12.618 <sub>42</sub>	39.07 <sub>4</sub>
Dez. 6.1	53.212 <sub>16</sub>	69.77 <sub>185</sub>	11.047 <sub>1</sub>	42.92 <sub>94</sub>	15.651 <sub>0</sub>	25.34 <sub>91</sub>	12.576 <sub>3</sub>	39.11 <sub>4</sub>
16.1	53.196 <sub>27</sub>	67.92 <sub>201</sub>	11.048 <sub>43</sub>	43.86 <sub>101</sub>	15.651 <sub>54</sub>	24.23 <sub>98</sub>	12.579 <sub>49</sub>	39.15 <sub>4</sub>
26.0	53.223 <sub>69</sub>	65.91 <sub>209</sub>	11.091 <sub>83</sub>	44.87 <sub>104</sub>	15.705 <sub>106</sub>	23.25 <sub>100</sub>	12.628 <sub>92</sub>	39.19 <sub>4</sub>
36.0	53.292	63.82	11.174	45.91	15.811	22.25	12.720	39.23
Mittl. Ort see S. fig 6	52.242 1.029	52.36 +0.245	9.770 1.004	57.05 -0.087	14.094 1.269	33.26 -0.782	11.122 1.072	50.36 -0.387

# Obere Kulmination Greenwich

Mittlere Zeit Greenwich.	723) δ Draconis		724) θ Lyrae		725) ω Aquilae		726) ζ Cygni	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	19 <sup>h</sup> 12 <sup>m</sup>	+67° 31'	19 <sup>h</sup> 13 <sup>m</sup>	+37° 59'	19 <sup>h</sup> 14 <sup>m</sup>	+11° 27'	19 <sup>h</sup> 15 <sup>m</sup>	+53° 13'
Jan. 1.0	29.47	45.24	40.095	54.63	10.725	28.07	17.446	43.78
11.0	29.45	41.72	40.151	51.57	10.807	26.14	17.472	40.38
21.0	29.53	38.17	40.255	48.52	10.927	24.24	17.565	36.96
30.9	29.73	34.73	40.405	45.60	11.080	22.44	17.722	33.67
Feb. 9.9	30.02	31.53	40.597	42.91	11.264	20.81	17.938	30.61
19.9	30.40	28.69	40.826	40.57	11.473	19.44	18.208	27.90
März 1.9	30.86	26.31	41.088	38.65	11.706	18.37	18.524	25.66
11.8	31.38	24.48	41.376	37.24	11.957	17.66	18.879	23.96
21.8	31.96	23.27	41.685	36.38	12.223	17.35	19.263	22.86
31.8	32.55	22.71	42.008	36.11	12.500	17.44	19.666	22.10
Apr. 10.8	33.16	22.81	42.337	36.43	12.784	17.94	20.078	22.59
20.7	33.77	23.57	42.667	37.31	13.069	18.81	20.489	23.40
30.7	34.35	24.94	42.990	38.73	13.352	20.03	20.887	24.81
Mai 10.7	34.88	26.85	43.299	40.61	13.626	21.55	21.263	26.75
20.6	35.36	29.26	43.586	42.90	13.886	23.30	21.607	29.15
30.6	35.77	32.06	43.844	45.51	14.126	25.23	21.911	31.93
Juni 9.6	36.10	35.18	44.067	48.36	14.340	27.28	22.166	35.00
19.6	36.34	38.51	44.210	51.37	14.523	29.37	22.365	38.27
29.5	36.48	41.96	44.308	54.44	14.671	31.46	22.505	41.65
Juli 9.5	36.53	45.45	44.476	57.51	14.779	33.48	22.581	45.04
19.5	36.47	48.88	44.513	60.48	14.845	35.39	22.591	48.37
29.5	36.31	52.18	44.498	63.30	14.867	37.14	22.536	51.56
Aug. 8.4	36.07	55.26	44.433	65.90	14.845	38.71	22.416	54.52
18.4	35.73	58.06	44.320	68.22	14.782	40.06	22.238	57.20
28.4	35.32	60.52	44.162	70.21	14.680	41.17	22.005	59.54
Sept. 7.3	34.84	62.59	43.968	71.84	14.546	42.03	21.725	61.48
17.3	34.30	64.21	43.743	73.08	14.385	42.62	21.408	62.99
27.3	33.73	65.35	43.498	73.88	14.206	42.95	21.064	64.03
Okt. 7.3	33.13	65.97	43.241	74.23	14.017	43.00	20.705	64.57
17.2	32.52	66.05	42.983	74.13	13.829	42.78	20.343	64.59
27.2	31.93	65.59	42.734	73.56	13.650	42.28	19.990	64.08
Nov. 6.2	31.37	64.57	42.505	72.52	13.490	41.50	19.658	63.04
16.2	30.85	63.02	42.304	71.03	13.356	40.47	19.359	61.49
26.1	30.39	60.94	42.139	69.11	13.255	39.18	19.102	59.44
Dec. 6.1	30.01	58.41	42.017	66.82	13.191	37.67	18.898	56.96
16.1	29.71	55.47	41.942	64.19	13.168	35.97	18.752	54.08
26.0	29.52	52.21	41.916	61.32	13.186	34.13	18.670	50.92
36.0	29.43	48.74	41.941	58.29	13.244	32.20	18.654	47.56
Mittl. Ort	32.50	33.74	41.693	44.63	12.126	19.70	19.443	32.83
sec δ. tg δ	2.616	+2.417	1.269	+0.781	1.020	+0.203	1.671	+1.338



Mittlere Zeit Greenw.	729) $\tau$ Draconis		728) $\alpha$ Sagittarii		730) $\delta$ Aquilae		732) $\beta$ Cygni	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	19 <sup>h</sup> 16 <sup>m</sup>	+73° 12'	19 <sup>h</sup> 18 <sup>m</sup>	-40° 45'	19 <sup>h</sup> 21 <sup>m</sup>	+2° 57'	19 <sup>h</sup> 27 <sup>m</sup>	+27° 47'
Jan. 1.0	58.69 <sup>8</sup>	58.78 <sup>349</sup>	31.150 <sup>120</sup>	38.20 <sup>124</sup>	35.567 <sup>82</sup>	44.20 <sup>144</sup>	35.502 <sup>53</sup>	58.90 <sup>264</sup>
II.0	58.61 <sup>6</sup>	55.29 <sup>353</sup>	31.270 <sup>169</sup>	36.96 <sup>125</sup>	35.649 <sup>118</sup>	42.76 <sup>141</sup>	35.555 <sup>95</sup>	56.26 <sup>265</sup>
21.0	58.67 <sup>21</sup>	51.76 <sup>345</sup>	31.439 <sup>212</sup>	35.71 <sup>123</sup>	35.767 <sup>152</sup>	41.35 <sup>133</sup>	35.650 <sup>135</sup>	53.61 <sup>255</sup>
30.9	58.88 <sup>34</sup>	48.31 <sup>323</sup>	31.651 <sup>250</sup>	34.48 <sup>119</sup>	35.919 <sup>180</sup>	40.02 <sup>119</sup>	35.785 <sup>171</sup>	51.06 <sup>235</sup>
Feb. 9.9	59.22 <sup>47</sup>	45.08 <sup>289</sup>	31.901 <sup>283</sup>	33.29 <sup>114</sup>	36.099 <sup>206</sup>	38.83 <sup>98</sup>	35.956 <sup>204</sup>	48.71 <sup>206</sup>
19.9	59.69 <sup>57</sup>	42.19 <sup>244</sup>	32.184 <sup>311</sup>	32.15 <sup>108</sup>	36.305 <sup>229</sup>	37.85 <sup>72</sup>	36.160 <sup>233</sup>	46.65 <sup>167</sup>
März 1.9	60.26 <sup>67</sup>	39.75 <sup>190</sup>	32.495 <sup>333</sup>	31.07 <sup>99</sup>	36.534 <sup>248</sup>	37.13 <sup>43</sup>	36.393 <sup>257</sup>	44.98 <sup>123</sup>
11.8	60.93 <sup>72</sup>	37.85 <sup>130</sup>	32.828 <sup>351</sup>	30.08 <sup>91</sup>	36.782 <sup>262</sup>	36.70 <sup>11</sup>	36.650 <sup>277</sup>	43.75 <sup>74</sup>
21.8	61.65 <sup>78</sup>	36.55 <sup>66</sup>	33.179 <sup>365</sup>	29.17 <sup>80</sup>	37.044 <sup>274</sup>	36.59 <sup>22</sup>	36.927 <sup>293</sup>	43.01 <sup>22</sup>
31.8	62.43 <sup>78</sup>	35.89 <sup>0</sup>	33.544 <sup>373</sup>	28.37 <sup>68</sup>	37.318 <sup>282</sup>	36.81 <sup>54</sup>	37.220 <sup>301</sup>	42.79 <sup>31</sup>
Apr. 10.8	63.21 <sup>78</sup>	35.89 <sup>65</sup>	33.917 <sup>376</sup>	27.69 <sup>54</sup>	37.600 <sup>285</sup>	37.35 <sup>85</sup>	37.521 <sup>305</sup>	43.10 <sup>82</sup>
20.7	63.99 <sup>74</sup>	36.54 <sup>127</sup>	34.293 <sup>374</sup>	27.15 <sup>39</sup>	37.885 <sup>285</sup>	38.20 <sup>112</sup>	37.826 <sup>303</sup>	43.92 <sup>130</sup>
30.7	64.73 <sup>69</sup>	37.81 <sup>183</sup>	34.667 <sup>365</sup>	26.76 <sup>21</sup>	38.170 <sup>277</sup>	39.32 <sup>135</sup>	38.129 <sup>293</sup>	45.22 <sup>171</sup>
Mai 10.7	65.42 <sup>61</sup>	39.64 <sup>231</sup>	35.032 <sup>349</sup>	26.55 <sup>3</sup>	38.447 <sup>265</sup>	40.67 <sup>153</sup>	38.422 <sup>278</sup>	46.93 <sup>208</sup>
20.6	66.03 <sup>52</sup>	41.95 <sup>274</sup>	35.381 <sup>326</sup>	26.52 <sup>17</sup>	38.712 <sup>247</sup>	42.20 <sup>164</sup>	38.700 <sup>256</sup>	49.01 <sup>237</sup>
30.6	66.55 <sup>41</sup>	44.69 <sup>305</sup>	35.707 <sup>296</sup>	26.69 <sup>36</sup>	38.959 <sup>224</sup>	43.84 <sup>172</sup>	38.956 <sup>228</sup>	51.38 <sup>257</sup>
Juni 9.6	66.96 <sup>30</sup>	47.74 <sup>329</sup>	36.003 <sup>257</sup>	27.05 <sup>57</sup>	39.183 <sup>194</sup>	45.56 <sup>172</sup>	39.184 <sup>193</sup>	53.95 <sup>271</sup>
19.6	67.26 <sup>16</sup>	51.03 <sup>342</sup>	36.260 <sup>214</sup>	27.62 <sup>75</sup>	39.377 <sup>160</sup>	47.28 <sup>169</sup>	39.377 <sup>154</sup>	56.66 <sup>277</sup>
29.5	67.42 <sup>4</sup>	54.45 <sup>347</sup>	36.474 <sup>163</sup>	28.37 <sup>91</sup>	39.537 <sup>121</sup>	48.97 <sup>161</sup>	39.531 <sup>111</sup>	59.43 <sup>275</sup>
Juli 9.5	67.46 <sup>10</sup>	57.92 <sup>344</sup>	36.637 <sup>110</sup>	29.28 <sup>104</sup>	39.658 <sup>79</sup>	50.58 <sup>150</sup>	39.642 <sup>64</sup>	62.18 <sup>267</sup>
19.5	67.36 <sup>22</sup>	61.36 <sup>332</sup>	36.747 <sup>52</sup>	30.32 <sup>114</sup>	39.737 <sup>36</sup>	52.08 <sup>134</sup>	39.706 <sup>17</sup>	64.85 <sup>252</sup>
29.5	67.14 <sup>35</sup>	64.68 <sup>313</sup>	36.799 <sup>5</sup>	31.46 <sup>119</sup>	39.773 <sup>7</sup>	53.42 <sup>117</sup>	39.723 <sup>30</sup>	67.38 <sup>232</sup>
Aug. 8.4	66.79 <sup>45</sup>	67.81 <sup>285</sup>	36.794 <sup>60</sup>	32.65 <sup>119</sup>	39.766 <sup>50</sup>	54.59 <sup>98</sup>	39.693 <sup>75</sup>	69.70 <sup>208</sup>
18.4	66.34 <sup>57</sup>	70.66 <sup>253</sup>	36.734 <sup>113</sup>	33.84 <sup>116</sup>	39.716 <sup>88</sup>	55.57 <sup>79</sup>	39.618 <sup>117</sup>	71.78 <sup>178</sup>
28.4	65.77 <sup>65</sup>	73.19 <sup>214</sup>	36.621 <sup>158</sup>	35.00 <sup>105</sup>	39.628 <sup>122</sup>	56.36 <sup>58</sup>	39.501 <sup>153</sup>	73.56 <sup>147</sup>
Sept. 7.3	65.12 <sup>72</sup>	75.33 <sup>172</sup>	36.463 <sup>194</sup>	36.05 <sup>90</sup>	39.506 <sup>150</sup>	56.94 <sup>38</sup>	39.348 <sup>183</sup>	75.03 <sup>112</sup>
17.3	64.40 <sup>77</sup>	77.05 <sup>124</sup>	36.269 <sup>221</sup>	36.95 <sup>72</sup>	39.356 <sup>169</sup>	57.32 <sup>17</sup>	39.165 <sup>204</sup>	76.15 <sup>74</sup>
27.3	63.63 <sup>81</sup>	78.29 <sup>73</sup>	36.048 <sup>235</sup>	37.67 <sup>49</sup>	39.187 <sup>179</sup>	57.49 <sup>3</sup>	38.961 <sup>217</sup>	76.89 <sup>35</sup>
Okt. 7.3	62.82 <sup>82</sup>	79.02 <sup>21</sup>	35.813 <sup>237</sup>	38.16 <sup>26</sup>	39.008 <sup>180</sup>	57.46 <sup>23</sup>	38.744 <sup>219</sup>	77.24 <sup>4</sup>
17.2	62.00 <sup>81</sup>	79.23 <sup>35</sup>	35.576 <sup>225</sup>	38.42 <sup>1</sup>	38.828 <sup>171</sup>	57.23 <sup>43</sup>	38.525 <sup>212</sup>	77.20 <sup>45</sup>
27.2	61.19 <sup>78</sup>	78.88 <sup>90</sup>	35.351 <sup>201</sup>	38.41 <sup>26</sup>	38.657 <sup>155</sup>	56.80 <sup>62</sup>	38.313 <sup>196</sup>	76.75 <sup>85</sup>
Nov. 6.2	60.41 <sup>72</sup>	77.98 <sup>145</sup>	35.150 <sup>166</sup>	38.15 <sup>50</sup>	38.502 <sup>128</sup>	56.18 <sup>80</sup>	38.117 <sup>172</sup>	75.90 <sup>125</sup>
16.2	59.69 <sup>65</sup>	76.53 <sup>196</sup>	34.984 <sup>123</sup>	37.65 <sup>71</sup>	38.374 <sup>96</sup>	55.38 <sup>99</sup>	37.945 <sup>139</sup>	74.65 <sup>162</sup>
26.1	59.04 <sup>55</sup>	74.57 <sup>244</sup>	34.861 <sup>73</sup>	36.94 <sup>89</sup>	38.278 <sup>60</sup>	54.39 <sup>114</sup>	37.806 <sup>103</sup>	73.03 <sup>195</sup>
Dez. 6.1	58.49 <sup>44</sup>	72.13 <sup>287</sup>	34.788 <sup>20</sup>	36.05 <sup>103</sup>	38.218 <sup>21</sup>	53.25 <sup>128</sup>	37.703 <sup>61</sup>	71.08 <sup>225</sup>
16.1	58.05 <sup>31</sup>	69.26 <sup>319</sup>	34.768 <sup>36</sup>	35.02 <sup>114</sup>	38.197 <sup>20</sup>	51.97 <sup>139</sup>	37.642 <sup>18</sup>	68.83 <sup>247</sup>
26.0	57.74 <sup>18</sup>	66.07 <sup>343</sup>	34.804 <sup>90</sup>	33.88 <sup>119</sup>	38.217 <sup>39</sup>	50.58 <sup>145</sup>	37.624 <sup>26</sup>	66.36 <sup>262</sup>
36.0	57.56	62.64	34.894	32.69	38.276	49.13	37.650	63.74
Mittl. Ort sec $\delta$ , tg $\delta$	62.59 3.463	46.74 +3.316	33.213 1.320	43.76 -0.862	36.969 1.001	36.43 +0.052	36.938 1.130	49.20 +0.527

Mittlere Zeit Greenw.	733) $\iota$ Cygni		736) $h$ Sagittarii		738) $\theta$ Cygni		742) $\delta$ Cygni	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	19 <sup>h</sup> 27 <sup>m</sup>	+51° 33'	19 <sup>h</sup> 31 <sup>m</sup>	-25° 3'	19 <sup>h</sup> 34 <sup>m</sup>	+50° 2'	19 <sup>h</sup> 42 <sup>m</sup>	+44° 56'
Jan. 1.0	44.039 11	65.74 333	59.716 91	11.86 30	20.801 5	43.07 328	32.507 8	42.97 314
11.0	44.050 75	62.41 337	59.807 131	11.56 33	20.806 67	39.79 332	32.515 61	39.83 319
21.0	44.125 136	59.04 328	59.938 168	11.23 37	20.873 125	36.47 325	32.576 114	36.64 313
31.0	44.261 194	55.76 306	60.106 199	10.86 42	20.998 181	33.22 305	32.690 165	33.51 295
Feb. 9.9	44.455 246	52.70 274	60.305 227	10.44 47	21.179 233	30.17 274	32.855 210	30.56 265
19.9	44.701 294	49.96 231	60.532 252	9.97 54	21.412 279	27.43 231	33.065 252	27.91 225
März 1.9	44.995 333	47.65 178	60.784 272	9.43 60	21.691 318	25.12 180	33.317 288	25.66 176
11.9	45.328 364	45.87 119	61.056 290	8.83 66	22.009 350	23.32 123	33.605 318	23.90 122
21.8	45.692 385	44.68 57	61.346 303	8.17 72	22.359 372	22.09 62	33.923 341	22.68 61
31.8	46.077 398	44.11 6	61.649 314	7.45 77	22.731 386	21.47 2	34.264 355	22.07 1
Apr. 10.8	46.475 400	44.17 70	61.903 319	6.68 79	23.117 390	21.49 64	34.619 361	22.06 60
20.7	46.875 392	44.87 129	62.282 319	5.89 78	23.507 385	22.13 124	34.980 360	22.66 118
30.7	47.267 374	46.16 183	62.601 316	5.11 75	23.892 369	23.37 177	35.340 348	23.84 170
Mai 10.7	47.641 347	47.99 230	62.917 304	4.36 69	24.261 344	25.14 225	35.688 328	25.54 217
20.7	47.988 310	50.29 270	63.221 287	3.67 60	24.605 311	27.39 265	36.016 300	27.71 256
30.6	48.298 265	52.99 300	63.508 263	3.07 47	24.916 268	30.04 297	36.316 265	30.27 286
Juni 9.6	48.563 215	55.99 322	63.771 233	2.60 35	25.184 220	33.01 319	36.581 221	33.13 309
19.6	48.778 157	59.21 335	64.004 196	2.25 20	25.404 165	36.20 332	36.802 173	36.22 323
29.6	48.935 96	62.56 339	64.200 156	2.05 5	25.569 107	39.52 337	36.975 120	39.45 327
Juli 9.5	49.031 33	65.95 334	64.356 109	2.00 10	25.676 45	42.89 334	37.095 64	42.72 325
19.5	49.064 31	69.29 322	64.465 62	2.10 23	25.721 17	46.23 322	37.159 7	45.97 313
29.5	49.033 94	72.51 302	64.527 12	2.33 35	25.704 78	49.45 303	37.166 50	49.10 296
Aug. 8.4	48.939 153	75.53 275	64.539 35	2.68 44	25.626 136	52.48 278	37.116 104	52.06 271
18.4	48.786 206	78.28 243	64.504 80	3.12 50	25.490 190	55.26 246	37.012 155	54.77 241
28.4	48.580 254	80.71 205	64.424 120	3.62 54	25.300 237	57.72 210	36.857 200	57.18 205
Sept. 7.4	48.326 293	82.76 163	64.304 152	4.16 52	25.063 276	59.82 168	36.657 237	59.23 167
17.3	48.033 322	84.39 117	64.152 177	4.68 49	24.787 304	61.50 123	36.420 264	60.90 123
27.3	47.711 338	85.56 69	63.975 190	5.17 42	24.483 323	62.73 75	36.156 283	62.13 77
Okt. 7.3	47.373 345	86.25 15	63.785 193	5.59 35	24.160 330	63.48 25	35.873 290	62.90 28
17.3	47.028 338	86.42 35	63.592 186	5.94 25	23.830 325	63.73 27	35.583 287	63.18 21
27.2	46.690 320	86.07 88	63.406 167	6.19 15	23.505 309	63.46 80	35.296 274	62.97 72
Nov. 6.2	46.370 292	85.19 140	63.239 140	6.34 6	23.196 282	62.66 132	35.022 249	62.25 122
16.2	46.078 252	83.79 190	63.099 106	6.40 4	22.914 245	61.34 180	34.773 217	61.03 169
26.1	45.826 205	81.89 235	62.993 65	6.36 10	22.669 201	59.54 227	34.556 177	59.34 214
Dez. 6.1	45.621 151	79.54 274	62.928 22	6.26 17	22.468 149	57.27 266	34.379 130	57.20 253
16.1	45.470 91	76.80 305	62.906 23	6.09 21	22.319 93	54.61 298	34.249 80	54.67 284
26.1	45.379 29	73.75 327	62.929 66	5.88 26	22.226 32	51.63 321	34.169 27	51.83 307
36.0	45.350	70.48	62.995	5.62	22.194	48.42	34.142	48.76
Mittl. Ort sec $\delta$ , tg $\delta$	45.907 1.609	54.24 +1.260	61.388 1.104	17.32 -0.467	22.585 1.557	31.35 +1.194	34.119 1.413	31.32 +0.998



Mittlere Zeit Greenw.	741) $\gamma$ Aquilae		743) $\delta$ Sagittae		745) $\alpha$ Aquilae*)		747) $\varepsilon$ Draconis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	19 <sup>h</sup> 42 <sup>m</sup>	+10° 25'	19 <sup>h</sup> 43 <sup>m</sup>	+18° 20'	19 <sup>h</sup> 47 <sup>m</sup>	+8° 39'	19 <sup>h</sup> 48 <sup>m</sup>	+7° 0' 4"
Jan. I.O	34.585	36.83	55.906	45.11	0.233	58.03	23.54	32.31
II.O	34.640	35.05	55.953	42.93	0.289	56.37	23.40	28.94
21.O	34.733	33.27	56.038	40.75	0.382	54.71	23.39	25.45
31.O	34.859	31.57	56.159	38.65	0.508	53.14	23.49	21.97
Feb. 9.9	35.017	30.03	56.313	36.72	0.666	51.72	23.71	18.62
19.9	35.203	28.71	56.498	35.03	0.852	50.51	24.04	15.54
März I.9	35.414	27.67	56.710	33.66	1.063	49.58	24.47	12.85
II.9	35.649	26.98	56.947	32.68	1.296	48.98	24.99	10.64
21.8	35.902	26.65	57.204	32.12	1.549	48.74	25.57	8.99
31.8	36.169	26.72	57.477	32.01	1.817	48.87	26.21	7.96
Apr. 10.8	36.449	27.18	57.762	32.36	2.096	49.38	26.88	7.58
20.7	36.735	28.01	58.053	33.15	2.382	50.24	27.56	7.86
30.7	37.023	29.19	58.346	34.35	2.671	51.43	28.22	8.77
Mai 10.7	37.307	30.66	58.635	35.91	2.956	52.91	28.86	10.27
20.7	37.581	32.38	58.912	37.78	3.231	54.61	29.44	12.31
30.6	37.839	34.28	59.173	39.89	3.490	56.49	29.96	14.81
Juni 9.6	38.074	36.31	59.409	42.18	3.728	58.47	30.40	17.69
19.6	38.281	38.40	59.616	44.57	3.938	60.51	30.74	20.87
29.6	38.454	40.48	59.787	47.00	4.114	62.54	30.98	24.26
Juli 9.5	38.588	42.52	59.919	49.40	4.253	64.51	31.12	27.76
19.5	38.682	44.45	60.008	51.71	4.349	66.37	31.14	31.29
29.5	38.731	46.24	60.052	53.89	4.403	68.08	31.05	34.76
Aug. 8.4	38.736	47.85	60.050	55.88	4.411	69.61	30.85	38.10
18.4	38.697	49.25	60.004	57.66	4.377	70.94	30.56	41.22
28.4	38.619	50.42	59.918	59.18	4.302	72.04	30.16	44.07
Sept. 7.4	38.504	51.35	59.794	60.42	4.192	72.91	29.68	46.58
17.3	38.359	52.03	59.640	61.36	4.051	73.53	29.14	48.69
27.3	38.193	52.44	59.464	61.99	3.888	73.90	28.53	50.36
Okt. 7.3	38.013	52.59	59.274	62.30	3.712	74.02	27.88	51.55
17.3	37.829	52.48	59.078	62.28	3.531	73.90	27.21	52.20
27.2	37.650	52.10	58.888	61.93	3.355	73.52	26.54	52.32
Nov. 6.2	37.484	51.46	58.711	61.24	3.192	72.90	25.88	51.87
16.2	37.341	50.57	58.555	60.24	3.051	72.06	25.26	50.85
26.1	37.226	49.44	58.428	58.93	2.939	70.98	24.68	49.28
Dez. 6.1	37.144	48.09	58.334	57.34	2.859	69.71	24.18	47.20
16.1	37.099	46.55	58.277	55.50	2.816	68.27	23.76	44.64
26.1	37.093	44.86	58.260	53.48	2.811	66.69	23.44	41.69
36.0	37.126	43.08	58.283	51.33	2.845	65.02	23.23	38.43
Mittl. Ort	35.934	28.60	57.254	36.05	1.579	50.13	26.52	18.45
see S. 127	1.017	1.0184	1.054	1.0332	1.012	1.0152	2.934	1.2758

\*) Die jährliche Parallaxe (0.23) ist bereits berücksichtigt



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	749) $\beta$ Aquilae			748) $\varepsilon$ Pavonis			750) $\psi$ Cygni			751) $\theta^1$ Sagittarii					
	AR.	Dekl.		AR.	Dekl.		AR.	Dekl.		AR.	Dekl.				
1923	19 <sup>h</sup> 51 <sup>m</sup>	+6° 12'		19 <sup>h</sup> 51 <sup>m</sup>	-73° 6'		19 <sup>h</sup> 53 <sup>m</sup>	+52° 13'		19 <sup>h</sup> 54 <sup>m</sup>	-35° 28'				
Jan. 1.1	30.515 <sub>50</sub>	55.97	154	37.08	9	55.02	294	36.630	29	74.90	323	41.717	71	65.65	98
11.0	30.565 <sub>87</sub>	54.43	154	37.17	22	52.08	299	36.601	33	71.67	333	41.788	115	64.67	105
21.0	30.652 <sub>120</sub>	52.89	146	37.39	34	49.09	297	36.634	96	68.34	329	41.903	157	63.62	109
31.0	30.772 <sub>151</sub>	51.43	132	37.73	47	46.12	286	36.730	156	65.05	315	42.060	194	62.53	113
Feb. 9.9	30.923 <sub>179</sub>	50.11	111	38.20	57	43.26	269	36.886	213	61.90	287	42.254	227	61.40	115
19.9	31.102 <sub>205</sub>	49.00	86	38.77	66	40.57	246	37.099	265	59.03	249	42.481	258	60.25	116
März 1.9	31.307 <sub>228</sub>	48.14	55	39.43	74	38.11	218	37.364	310	56.54	200	42.739	283	59.09	115
11.9	31.535 <sub>248</sub>	47.59	21	40.17	81	35.93	186	37.674	348	54.54	145	43.022	306	57.94	113
21.8	31.783 <sub>263</sub>	47.38	14	40.98	85	34.07	151	38.022	377	53.09	85	43.328	325	56.81	110
31.8	32.046 <sub>277</sub>	47.52	50	41.83	88	32.56	112	38.399	396	52.24	22	43.653	339	55.71	104
Apr. 10.8	32.323 <sub>285</sub>	48.02	83	42.71	91	31.44	71	38.795	406	52.02	42	43.992	350	54.67	95
20.8	32.608 <sub>288</sub>	48.85	114	43.62	90	30.73	30	39.201	406	52.44	102	44.342	354	53.72	85
30.7	32.896 <sub>286</sub>	49.99	140	44.52	89	30.43	14	39.607	393	53.46	158	44.696	352	52.87	71
Mai 10.7	33.182 <sub>277</sub>	51.39	162	45.41	85	30.57	56	40.000	371	55.04	209	45.048	345	52.16	54
20.7	33.459 <sub>263</sub>	53.01	177	46.26	79	31.13	97	40.371	340	57.13	252	45.393	329	51.62	36
30.6	33.722 <sub>242</sub>	54.78	187	47.05	73	32.10	137	40.711	299	59.65	288	45.722	306	51.26	17
Juni 9.6	33.964 <sub>216</sub>	56.65	191	47.78	63	33.47	173	41.010	250	62.53	313	46.028	275	51.09	4
19.6	34.180 <sub>183</sub>	58.56	190	48.41	54	35.20	204	41.260	195	65.66	332	46.303	237	51.13	26
29.6	34.363 <sub>145</sub>	60.46	184	48.95	41	37.24	230	41.455	135	68.98	340	46.540	193	51.39	45
Juli 9.5	34.508 <sub>104</sub>	62.30	172	49.36	28	39.54	249	41.590	71	72.38	341	46.733	144	51.84	64
19.5	34.612 <sub>61</sub>	64.02	158	49.64	14	42.03	262	41.661	6	75.79	333	46.877	92	52.48	81
29.5	34.673 <sub>16</sub>	65.60	141	49.78	0	44.65	265	41.667	59	79.12	318	46.969	36	53.29	92
Aug. 8.5	34.689 <sub>26</sub>	67.01	121	49.78	14	47.30	259	41.608	121	82.30	295	47.005	17	54.21	101
18.4	34.663 <sub>69</sub>	68.22	100	49.64	27	49.89	246	41.487	178	85.25	266	46.988	68	55.22	105
28.4	34.594 <sub>104</sub>	69.22	77	49.37	39	52.35	221	41.309	230	87.91	232	46.920	115	56.27	103
Sept. 7.4	34.490 <sub>135</sub>	69.99	54	48.98	50	54.56	190	41.079	273	90.23	193	46.805	155	57.30	97
17.3	34.355 <sub>158</sub>	70.53	31	48.48	39	56.46	149	40.806	307	92.16	149	46.650	186	58.27	87
27.3	34.197 <sub>173</sub>	70.84	8	47.89	64	57.95	105	40.499	331	93.65	101	46.464	205	59.14	71
Okt. 7.3	34.024 <sub>179</sub>	70.92	14	47.25	68	59.00	53	40.168	343	94.66	52	46.259	214	59.85	54
17.3	33.845 <sub>175</sub>	70.78	37	46.57	67	59.53	1	39.825	342	95.18	1	46.045	211	60.39	33
27.2	33.670 <sub>163</sub>	70.41	59	45.90	65	59.52	55	39.483	332	95.17	54	45.834	196	60.72	11
Nov. 6.2	33.507 <sub>142</sub>	69.82	81	45.25	58	58.97	107	39.151	308	94.63	108	45.638	171	60.83	11
16.2	33.365 <sub>114</sub>	69.01	100	44.67	50	57.90	156	38.843	276	93.55	159	45.467	137	60.72	31
26.2	33.251 <sub>85</sub>	68.01	119	44.17	39	56.34	200	38.567	234	91.96	208	45.330	97	60.41	50
Dez. 6.1	33.168 <sub>47</sub>	66.82	134	43.78	27	54.34	236	38.333	184	89.88	250	45.233	51	59.91	66
16.1	33.121 <sub>10</sub>	65.48	147	43.51	13	51.98	264	38.149	129	87.38	286	45.182	3	59.25	79
26.1	33.111 <sub>29</sub>	64.01	154	43.38	0	49.34	285	38.020	69	84.52	314	45.179	43	58.46	91
36.0	33.140	62.47		43.38		46.49		37.951		81.38		45.222		57.55	
Mittl. Ort see 2, tg 2	31.855	48.28		42.71	56.77			38.370	62.13			43.617	68.89		
	1.006	+0.109		3.443	-3.295			1.633	+1.291			1.228	-0.713		

Mittlere Zeit Greenw.	752) $\gamma$ Sagittae		754) $\delta$ Pavonis		756) $\eta$ Aquilae		757) $\alpha^1$ Cygni sq.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	19 <sup>h</sup> 55 <sup>m</sup>	+19° 16'	20 <sup>h</sup> 1 <sup>m</sup>	-66° 22'	20 <sup>h</sup> 7 <sup>m</sup>	-1° 2'	20 <sup>h</sup> 11 <sup>m</sup>	+46° 30'
Jan. 1.1	18.625	64.63	7.15	47.92	18.609	56.81	10.925	38.37
II.0	18.660	62.45	7.21	45.30	18.650	57.90	10.891	35.33
21.0	18.732	60.25	7.38	42.60	18.726	58.96	10.911	32.19
31.0	18.841	58.13	7.63	39.88	18.835	59.94	10.985	29.04
Feb. 10.0	18.984	56.15	7.96	37.23	18.975	60.80	11.111	26.02
19.9	19.159	54.42	8.38	34.70	19.143	61.49	11.288	23.23
März 1.9	19.363	53.00	8.85	32.34	19.338	61.96	11.512	20.79
11.9	19.592	51.95	9.39	30.20	19.557	62.18	11.778	18.80
21.8	19.843	51.34	9.98	28.33	19.797	62.12	12.081	17.32
31.8	20.113	51.17	10.60	26.77	20.055	61.77	12.413	16.42
Apr. 10.8	20.396	51.46	11.25	25.53	20.328	61.13	12.767	16.12
20.8	20.689	52.21	11.92	24.64	20.612	60.23	13.136	16.43
30.7	20.984	53.37	12.59	24.14	20.902	59.08	13.508	17.33
Mai 10.7	21.277	54.91	13.26	24.03	21.192	57.73	13.875	18.78
20.7	21.561	56.76	13.91	24.31	21.478	56.24	14.228	20.73
30.7	21.828	58.88	14.52	24.99	21.751	54.64	14.558	23.12
Juni 9.6	22.073	61.18	15.09	26.04	22.007	52.99	14.855	25.85
19.6	22.289	63.60	15.59	27.45	22.237	51.33	15.112	28.87
29.6	22.470	66.08	16.02	29.18	22.437	49.73	15.322	32.07
Juli 9.5	22.613	68.53	16.37	31.19	22.601	48.21	15.479	35.37
19.5	22.712	70.92	16.62	33.41	22.725	46.82	15.581	38.69
29.5	22.766	73.17	16.77	35.78	22.805	45.59	15.623	41.95
Aug. 8.5	22.775	75.25	16.81	38.22	22.841	44.52	15.607	45.08
18.4	22.739	77.11	16.75	40.66	22.832	43.64	15.534	48.01
28.4	22.660	78.72	16.60	43.00	22.782	42.96	15.406	50.67
Sept. 7.4	22.544	80.05	16.34	45.16	22.693	42.46	15.229	53.02
17.4	22.397	81.09	16.01	47.05	22.572	42.15	15.011	55.00
27.3	22.225	81.81	15.61	48.61	22.426	42.03	14.759	56.56
Okt. 7.3	22.037	82.20	15.17	49.76	22.262	42.07	14.483	57.68
17.3	21.843	82.26	14.70	50.46	22.091	42.28	14.194	58.33
27.2	21.651	81.99	14.24	50.67	21.921	42.63	13.901	58.47
Nov. 6.2	21.471	81.37	13.78	50.39	21.760	43.13	13.615	58.11
16.2	21.310	80.43	13.38	49.61	21.619	43.78	13.347	57.23
26.2	21.176	79.17	13.03	48.37	21.502	44.55	13.105	55.85
Dez. 6.1	21.074	77.62	12.76	46.72	21.415	45.43	12.899	54.00
16.1	21.007	75.82	12.57	44.70	21.362	46.41	12.734	51.72
26.1	20.979	73.81	12.48	42.40	21.346	47.47	12.616	49.08
36.1	20.990	71.66	12.49	39.89	21.365	48.57	12.549	46.16
Mittl. Ort sec $\delta$ , tg $\delta$	19.942 1.060	55.40 +0.350	11.22 2.496	48.84 -2.287	19.951 1.000	63.28 -0.018	12.415 1.453	25.50 +1.054



# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	759) $\alpha$ Cephei		760) $\gamma$ Vulpeculae		761) $\alpha^3$ Capricorni		765) $\gamma$ Cygni	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	20 <sup>h</sup> 11 <sup>m</sup>	+77° 28'	20 <sup>h</sup> 13 <sup>m</sup>	+24° 25'	20 <sup>h</sup> 13 <sup>m</sup>	-12° 46'	20 <sup>h</sup> 19 <sup>m</sup>	+40° 0'
Jan. 1.1	26.50 <sup>38</sup>	64.34 <sup>317</sup>	28.117 <sup>10</sup>	68.81 <sup>232</sup>	45.594 <sup>42</sup>	59.58 <sup>38</sup>	26.511 <sup>26</sup>	46.43 <sup>283</sup>
11.0	26.12 <sup>18</sup>	61.17 <sup>338</sup>	28.127 <sup>49</sup>	66.49 <sup>239</sup>	45.636 <sup>78</sup>	59.96 <sup>32</sup>	26.485 <sup>22</sup>	43.60 <sup>294</sup>
21.0	25.94 <sup>0</sup>	57.79 <sup>344</sup>	28.176 <sup>87</sup>	64.10 <sup>234</sup>	45.714 <sup>111</sup>	60.28 <sup>25</sup>	26.507 <sup>68</sup>	40.66 <sup>294</sup>
31.0	25.94 <sup>20</sup>	54.35 <sup>340</sup>	28.263 <sup>123</sup>	61.76 <sup>220</sup>	45.825 <sup>142</sup>	60.53 <sup>15</sup>	26.575 <sup>115</sup>	37.72 <sup>283</sup>
Feb. 10.0	26.14 <sup>38</sup>	50.95 <sup>320</sup>	28.386 <sup>158</sup>	59.56 <sup>198</sup>	45.967 <sup>172</sup>	60.68 <sup>1</sup>	26.690 <sup>159</sup>	34.89 <sup>260</sup>
19.9	26.52 <sup>56</sup>	47.75 <sup>289</sup>	28.544 <sup>190</sup>	57.58 <sup>167</sup>	46.139 <sup>198</sup>	60.69 <sup>16</sup>	26.849 <sup>201</sup>	32.29 <sup>228</sup>
März 1.9	27.08 <sup>71</sup>	44.86 <sup>247</sup>	28.734 <sup>219</sup>	55.91 <sup>128</sup>	46.337 <sup>223</sup>	60.53 <sup>32</sup>	27.050 <sup>239</sup>	30.01 <sup>185</sup>
11.9	27.79 <sup>83</sup>	42.39 <sup>196</sup>	28.953 <sup>246</sup>	54.63 <sup>85</sup>	46.560 <sup>244</sup>	60.21 <sup>51</sup>	27.289 <sup>272</sup>	28.16 <sup>137</sup>
21.8	28.62 <sup>93</sup>	40.43 <sup>138</sup>	29.199 <sup>267</sup>	53.78 <sup>37</sup>	46.804 <sup>264</sup>	59.70 <sup>70</sup>	27.561 <sup>300</sup>	26.79 <sup>81</sup>
31.8	29.55 <sup>100</sup>	39.05 <sup>75</sup>	29.466 <sup>286</sup>	53.41 <sup>11</sup>	47.068 <sup>280</sup>	59.00 <sup>86</sup>	27.861 <sup>322</sup>	25.98 <sup>25</sup>
Apr. 10.8	30.55 <sup>102</sup>	38.30 <sup>11</sup>	29.752 <sup>297</sup>	53.52 <sup>61</sup>	47.348 <sup>292</sup>	58.14 <sup>102</sup>	28.183 <sup>337</sup>	25.73 <sup>33</sup>
20.8	31.57 <sup>102</sup>	38.19 <sup>52</sup>	30.049 <sup>303</sup>	54.13 <sup>106</sup>	47.640 <sup>299</sup>	57.12 <sup>115</sup>	28.520 <sup>344</sup>	26.06 <sup>90</sup>
30.7	32.59 <sup>99</sup>	38.71 <sup>113</sup>	30.352 <sup>304</sup>	55.19 <sup>149</sup>	47.939 <sup>302</sup>	55.97 <sup>123</sup>	28.864 <sup>342</sup>	26.96 <sup>142</sup>
Mai 10.7	33.58 <sup>91</sup>	39.84 <sup>169</sup>	30.656 <sup>296</sup>	56.68 <sup>186</sup>	48.241 <sup>297</sup>	54.74 <sup>127</sup>	29.206 <sup>332</sup>	28.38 <sup>189</sup>
20.7	34.49 <sup>82</sup>	41.53 <sup>220</sup>	30.952 <sup>282</sup>	58.54 <sup>216</sup>	48.538 <sup>287</sup>	53.47 <sup>128</sup>	29.538 <sup>314</sup>	30.27 <sup>230</sup>
30.7	35.31 <sup>71</sup>	43.73 <sup>262</sup>	31.234 <sup>259</sup>	60.70 <sup>240</sup>	48.825 <sup>270</sup>	52.19 <sup>123</sup>	29.852 <sup>287</sup>	32.57 <sup>263</sup>
Juni 9.6	36.02 <sup>56</sup>	46.35 <sup>297</sup>	31.493 <sup>232</sup>	63.10 <sup>256</sup>	49.095 <sup>246</sup>	50.96 <sup>116</sup>	30.139 <sup>252</sup>	35.20 <sup>289</sup>
19.6	36.58 <sup>42</sup>	49.32 <sup>324</sup>	31.725 <sup>198</sup>	65.66 <sup>266</sup>	49.341 <sup>216</sup>	49.80 <sup>104</sup>	30.391 <sup>212</sup>	38.09 <sup>307</sup>
29.6	37.00 <sup>24</sup>	52.56 <sup>342</sup>	31.923 <sup>158</sup>	68.32 <sup>268</sup>	49.557 <sup>179</sup>	48.76 <sup>91</sup>	30.603 <sup>165</sup>	41.16 <sup>315</sup>
Juli 9.5	37.24 <sup>8</sup>	55.98 <sup>351</sup>	32.081 <sup>114</sup>	71.00 <sup>263</sup>	49.736 <sup>138</sup>	47.85 <sup>74</sup>	30.768 <sup>115</sup>	44.31 <sup>317</sup>
19.5	37.32 <sup>9</sup>	59.49 <sup>352</sup>	32.195 <sup>69</sup>	73.63 <sup>253</sup>	49.874 <sup>95</sup>	47.11 <sup>58</sup>	30.883 <sup>61</sup>	47.48 <sup>311</sup>
29.5	37.23 <sup>26</sup>	63.01 <sup>344</sup>	32.264 <sup>21</sup>	76.16 <sup>237</sup>	49.969 <sup>48</sup>	46.53 <sup>41</sup>	30.944 <sup>7</sup>	50.59 <sup>298</sup>
Aug. 8.5	36.97 <sup>42</sup>	66.45 <sup>330</sup>	32.285 <sup>25</sup>	78.53 <sup>216</sup>	50.017 <sup>3</sup>	46.12 <sup>23</sup>	30.951 <sup>45</sup>	53.57 <sup>278</sup>
18.4	36.55 <sup>57</sup>	69.75 <sup>308</sup>	32.260 <sup>70</sup>	80.69 <sup>191</sup>	50.020 <sup>42</sup>	45.89 <sup>8</sup>	30.906 <sup>96</sup>	56.35 <sup>252</sup>
28.4	35.98 <sup>71</sup>	72.83 <sup>280</sup>	32.190 <sup>109</sup>	82.60 <sup>163</sup>	49.978 <sup>82</sup>	45.81 <sup>5</sup>	30.810 <sup>142</sup>	58.87 <sup>223</sup>
Sept. 7.4	35.27 <sup>83</sup>	75.63 <sup>245</sup>	32.081 <sup>144</sup>	84.23 <sup>132</sup>	49.896 <sup>116</sup>	45.86 <sup>18</sup>	30.668 <sup>181</sup>	61.10 <sup>187</sup>
17.4	34.44 <sup>92</sup>	78.08 <sup>204</sup>	31.937 <sup>170</sup>	85.55 <sup>98</sup>	49.780 <sup>144</sup>	46.04 <sup>27</sup>	30.487 <sup>213</sup>	62.97 <sup>149</sup>
27.3	33.52 <sup>100</sup>	80.12 <sup>160</sup>	31.767 <sup>190</sup>	86.53 <sup>63</sup>	49.636 <sup>163</sup>	46.31 <sup>33</sup>	30.274 <sup>236</sup>	64.46 <sup>106</sup>
Okt. 7.3	32.52 <sup>106</sup>	81.72 <sup>109</sup>	31.577 <sup>200</sup>	87.16 <sup>26</sup>	49.473 <sup>171</sup>	46.64 <sup>39</sup>	30.038 <sup>249</sup>	65.52 <sup>62</sup>
17.3	31.46 <sup>108</sup>	82.81 <sup>57</sup>	31.377 <sup>200</sup>	87.42 <sup>11</sup>	49.302 <sup>172</sup>	47.03 <sup>43</sup>	29.789 <sup>253</sup>	66.14 <sup>15</sup>
27.2	30.38 <sup>108</sup>	83.38 <sup>1</sup>	31.177 <sup>192</sup>	87.31 <sup>48</sup>	49.130 <sup>162</sup>	47.46 <sup>44</sup>	29.536 <sup>247</sup>	66.29 <sup>33</sup>
Nov. 6.2	29.30 <sup>105</sup>	83.39 <sup>57</sup>	30.985 <sup>176</sup>	86.83 <sup>86</sup>	48.968 <sup>144</sup>	47.90 <sup>46</sup>	29.289 <sup>232</sup>	65.96 <sup>81</sup>
16.2	28.25 <sup>99</sup>	82.82 <sup>113</sup>	30.809 <sup>152</sup>	85.97 <sup>122</sup>	48.824 <sup>119</sup>	48.36 <sup>46</sup>	29.057 <sup>208</sup>	65.15 <sup>127</sup>
26.2	27.26 <sup>90</sup>	81.69 <sup>169</sup>	30.657 <sup>123</sup>	84.75 <sup>154</sup>	48.705 <sup>89</sup>	48.82 <sup>47</sup>	28.849 <sup>178</sup>	63.88 <sup>172</sup>
Dez. 6.1	26.36 <sup>79</sup>	80.00 <sup>220</sup>	30.534 <sup>90</sup>	83.21 <sup>185</sup>	48.616 <sup>54</sup>	49.29 <sup>46</sup>	28.671 <sup>140</sup>	62.16 <sup>212</sup>
16.1	25.57 <sup>64</sup>	77.80 <sup>265</sup>	30.444 <sup>52</sup>	81.36 <sup>209</sup>	48.562 <sup>16</sup>	49.75 <sup>45</sup>	28.531 <sup>99</sup>	60.04 <sup>247</sup>
26.1	24.93 <sup>49</sup>	75.15 <sup>301</sup>	30.392 <sup>14</sup>	79.27 <sup>228</sup>	48.546 <sup>20</sup>	50.20 <sup>43</sup>	28.432 <sup>55</sup>	57.57 <sup>273</sup>
36.1	24.44	72.14	30.378	76.99	48.566	50.63	28.377	54.84
Mittl. Ort	30.61	48.75	29.385	58.79	47.035	64.21	27.856	34.13
sec. $\delta$ , tg $\delta$	4.613	+4.503	1.098	+0.454	1.025	-0.227	1.306	+0.839



Mittlere Zeit Greenw.	764) $\alpha$ Pavonis		767) $\delta$ Cephei		768) $\varepsilon$ Delphini		769) $\alpha$ Indi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	20 <sup>h</sup> 19 <sup>m</sup>	-56° 58'	20 <sup>h</sup> 28 <sup>m</sup>	+62° 43'	20 <sup>h</sup> 29 <sup>m</sup>	+11° 2'	20 <sup>h</sup> 32 <sup>m</sup>	-47° 33'
1923								
Jan. 1.1	31.028 31	59.52 219	15.66 15	81.02 313	30.842 10	34.03 166	7.090 20	41.16 168
11.0	31.059 100	57.33 231	15.51 6	77.89 332	30.852 46	32.37 167	7.110 73	39.48 182
21.0	31.159 164	55.02 238	15.45 2	74.57 340	30.898 79	30.70 163	7.183 124	37.66 192
31.0	31.323 225	52.64 239	15.47 10	71.17 336	30.977 111	29.07 151	7.307 172	35.74 198
Feb. 10.0	31.548 280	50.25 234	15.57 19	67.81 318	31.088 143	27.56 132	7.479 216	33.76 199
19.9	31.828 330	47.91 225	15.76 26	64.63 287	31.231 173	26.24 105	7.695 258	31.77 194
März 1.9	32.158 376	45.66 212	16.02 34	61.76 246	31.404 200	25.19 75	7.953 294	29.79 192
11.9	32.534 414	43.54 194	16.36 40	59.30 196	31.604 225	24.44 40	8.247 328	27.87 184
21.9	32.948 447	41.60 174	16.76 46	57.34 138	31.829 247	24.04 1	8.575 357	26.03 171
31.8	33.395 474	39.86 148	17.22 49	55.96 -6	32.076 266	24.03 37	8.932 382	24.32 156
Apr. 10.8	33.869 492	38.38 121	17.71 51	55.20 13	32.342 280	24.40 74	9.314 401	22.76 137
20.8	34.361 503	37.17 91	18.22 52	55.07 51	32.622 290	25.14 111	9.715 414	21.39 115
30.7	34.864 506	36.26 58	18.74 52	55.58 113	32.912 294	26.25 142	10.129 419	20.24 90
Mai 10.7	35.370 497	35.68 23	19.26 50	56.71 169	33.206 291	27.67 169	10.548 417	19.34 62
20.7	35.867 478	35.45 12	19.76 46	58.40 220	33.497 281	29.36 190	10.965 405	18.72 32
30.7	36.345 449	35.57 47	20.22 41	60.60 263	33.778 264	31.26 205	11.370 384	18.40 2
Juni 9.6	36.794 408	36.04 82	20.63 35	63.23 299	34.042 241	33.31 214	11.754 354	18.38 29
19.6	37.202 357	36.86 115	20.98 29	66.22 326	34.283 212	35.45 218	12.108 314	18.67 60
29.6	37.559 297	38.01 143	21.27 21	69.48 344	34.495 176	37.63 214	12.422 267	19.27 89
Juli 9.6	37.856 228	39.44 169	21.48 12	72.92 354	34.671 136	39.77 206	12.689 212	20.16 115
19.5	38.084 153	41.13 187	21.60 5	76.46 356	34.807 94	41.83 194	12.901 152	21.31 137
29.5	38.237 76	43.00 203	21.65 4	80.02 348	34.901 48	43.77 178	13.053 87	22.68 154
Aug. 8.5	38.313 4	45.03 208	21.61 12	83.50 334	34.949 4	45.55 157	13.140 22	24.22 165
18.4	38.309 81	47.11 206	21.49 20	86.84 312	34.953 39	47.12 136	13.162 42	25.87 171
28.4	38.228 153	49.17 197	21.29 27	89.96 283	34.914 79	48.48 111	13.120 102	27.58 168
Sept. 7.4	38.075 216	51.14 180	21.02 34	92.79 249	34.835 112	49.59 86	13.018 154	29.26 160
17.4	37.859 268	52.94 156	20.68 38	95.28 208	34.723 141	50.45 61	12.864 200	30.86 143
27.3	37.591 307	54.50 124	20.30 43	97.36 163	34.582 161	51.06 34	12.664 232	32.29 122
Okt. 7.3	37.284 329	55.74 87	19.87 45	98.99 114	34.421 172	51.40 7	12.432 252	33.51 95
17.3	36.955 335	56.61 48	19.42 47	100.13 61	34.249 175	51.47 19	12.180 259	34.46 62
27.3	36.620 324	57.09 4	18.95 46	100.74 6	34.074 168	51.28 45	11.921 253	35.08 29
Nov. 6.2	36.296 298	57.13 39	18.49 46	100.80 52	33.906 155	50.83 70	11.668 233	35.37 7
16.2	35.998 257	56.74 80	18.03 42	100.28 108	33.751 134	50.13 94	11.435 203	35.30 42
26.2	35.741 205	55.94 119	17.61 39	99.20 163	33.617 108	49.19 117	11.232 163	34.88 75
Dez. 6.1	35.536 145	54.75 154	17.22 33	97.57 213	33.509 78	48.02 136	11.069 116	34.13 106
16.1	35.391 78	53.21 182	16.89 27	95.44 259	33.431 45	46.66 152	10.953 64	33.07 132
26.1	35.313 9	51.39 206	16.62 20	92.85 296	33.386 10	45.14 164	10.889 11	31.75 154
36.1	35.304	49.33	16.42	89.89	33.376	43.50	10.878	30.21
Mittl. Ort sec $\delta$ , tg $\delta$	33.977 1.835	59.07 -1.539	17.55 2.183	65.72 +1.940	32.061 1.019	26.14 +0.195	9.406 1.482	40.34 -1.094

# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	770) 73 Draconis		771) β Delphini		773) υ Capricorni		774) α Delphini	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	20 <sup>h</sup> 32 <sup>m</sup>	+74° 41'	20 <sup>h</sup> 33 <sup>m</sup>	+14° 19'	20 <sup>h</sup> 35 <sup>m</sup>	-18° 24'	20 <sup>h</sup> 36 <sup>m</sup>	+15° 38'
Jan. 1.1	29.50 <sup>35</sup>	44.04 <sup>306</sup>	55.096 <sup>4</sup>	43.29 <sup>180</sup>	38.651 <sup>22</sup>	36.06 <sup>2</sup>	2.510 <sup>0</sup>	30.74 <sup>186</sup>
11.1	29.15 <sup>21</sup>	40.98 <sup>330</sup>	55.100 <sup>38</sup>	41.49 <sup>184</sup>	38.673 <sup>58</sup>	36.08 <sup>6</sup>	2.510 <sup>35</sup>	28.88 <sup>189</sup>
21.0	28.94 <sup>5</sup>	37.68 <sup>343</sup>	55.138 <sup>73</sup>	39.65 <sup>179</sup>	38.731 <sup>93</sup>	36.02 <sup>16</sup>	2.545 <sup>70</sup>	26.99 <sup>186</sup>
31.0	28.89 <sup>10</sup>	34.25 <sup>342</sup>	55.211 <sup>106</sup>	37.86 <sup>168</sup>	38.824 <sup>124</sup>	35.86 <sup>28</sup>	2.615 <sup>103</sup>	25.13 <sup>174</sup>
Feb. 10.0	28.99 <sup>25</sup>	30.83 <sup>328</sup>	55.317 <sup>138</sup>	36.18 <sup>149</sup>	38.948 <sup>156</sup>	35.58 <sup>39</sup>	2.718 <sup>136</sup>	23.39 <sup>155</sup>
19.9	29.24 <sup>40</sup>	27.55 <sup>301</sup>	55.455 <sup>168</sup>	34.69 <sup>122</sup>	39.104 <sup>184</sup>	35.19 <sup>54</sup>	2.854 <sup>166</sup>	21.84 <sup>129</sup>
März 1.9	29.64 <sup>53</sup>	24.54 <sup>264</sup>	55.623 <sup>197</sup>	33.47 <sup>90</sup>	39.288 <sup>212</sup>	34.65 <sup>67</sup>	3.020 <sup>196</sup>	20.55 <sup>96</sup>
11.9	30.17 <sup>65</sup>	21.90 <sup>215</sup>	55.820 <sup>224</sup>	32.57 <sup>53</sup>	39.500 <sup>236</sup>	33.98 <sup>82</sup>	3.216 <sup>222</sup>	19.59 <sup>59</sup>
21.9	30.82 <sup>74</sup>	19.75 <sup>160</sup>	56.044 <sup>246</sup>	32.04 <sup>14</sup>	39.736 <sup>259</sup>	33.16 <sup>97</sup>	3.438 <sup>247</sup>	19.00 <sup>18</sup>
31.8	31.56 <sup>80</sup>	18.15 <sup>99</sup>	56.290 <sup>267</sup>	31.90 <sup>28</sup>	39.995 <sup>278</sup>	32.19 <sup>108</sup>	3.685 <sup>266</sup>	18.82 <sup>24</sup>
Apr. 10.8	32.36 <sup>84</sup>	17.16 <sup>36</sup>	56.557 <sup>281</sup>	32.18 <sup>69</sup>	40.273 <sup>294</sup>	31.11 <sup>119</sup>	3.951 <sup>282</sup>	19.06 <sup>65</sup>
20.8	33.20 <sup>86</sup>	16.80 <sup>29</sup>	56.838 <sup>292</sup>	32.87 <sup>106</sup>	40.567 <sup>305</sup>	29.92 <sup>125</sup>	4.233 <sup>293</sup>	19.71 <sup>105</sup>
30.8	34.06 <sup>84</sup>	17.09 <sup>91</sup>	57.130 <sup>296</sup>	33.93 <sup>141</sup>	40.872 <sup>312</sup>	28.67 <sup>128</sup>	4.526 <sup>297</sup>	20.76 <sup>141</sup>
Mai 10.7	34.90 <sup>80</sup>	18.00 <sup>149</sup>	57.426 <sup>294</sup>	35.34 <sup>171</sup>	41.184 <sup>311</sup>	27.39 <sup>128</sup>	4.823 <sup>295</sup>	22.17 <sup>172</sup>
20.7	35.70 <sup>73</sup>	19.49 <sup>201</sup>	57.720 <sup>284</sup>	37.05 <sup>196</sup>	41.495 <sup>303</sup>	26.11 <sup>122</sup>	5.118 <sup>285</sup>	23.89 <sup>197</sup>
30.7	36.43 <sup>65</sup>	21.50 <sup>248</sup>	58.004 <sup>267</sup>	39.01 <sup>213</sup>	41.798 <sup>289</sup>	24.89 <sup>113</sup>	5.403 <sup>269</sup>	25.86 <sup>216</sup>
Juni 9.6	37.08 <sup>54</sup>	23.98 <sup>287</sup>	58.271 <sup>245</sup>	41.14 <sup>225</sup>	42.087 <sup>268</sup>	23.76 <sup>102</sup>	5.672 <sup>246</sup>	28.02 <sup>229</sup>
19.6	37.62 <sup>43</sup>	26.85 <sup>316</sup>	58.516 <sup>215</sup>	43.39 <sup>230</sup>	42.355 <sup>238</sup>	22.74 <sup>85</sup>	5.918 <sup>216</sup>	30.31 <sup>235</sup>
29.6	38.05 <sup>29</sup>	30.01 <sup>339</sup>	58.731 <sup>179</sup>	45.69 <sup>229</sup>	42.593 <sup>204</sup>	21.89 <sup>69</sup>	6.134 <sup>181</sup>	32.66 <sup>234</sup>
Juli 9.6	38.34 <sup>16</sup>	33.40 <sup>353</sup>	58.910 <sup>139</sup>	47.98 <sup>223</sup>	42.797 <sup>164</sup>	21.20 <sup>49</sup>	6.315 <sup>140</sup>	35.00 <sup>229</sup>
19.5	38.50 <sup>2</sup>	36.93 <sup>358</sup>	59.049 <sup>95</sup>	50.21 <sup>211</sup>	42.961 <sup>119</sup>	20.71 <sup>30</sup>	6.455 <sup>97</sup>	37.29 <sup>218</sup>
29.5	38.52 <sup>12</sup>	40.51 <sup>354</sup>	59.144 <sup>51</sup>	52.32 <sup>195</sup>	43.080 <sup>72</sup>	20.41 <sup>11</sup>	6.552 <sup>52</sup>	39.47 <sup>203</sup>
Aug. 8.5	38.40 <sup>26</sup>	44.05 <sup>343</sup>	59.195 <sup>6</sup>	54.27 <sup>175</sup>	43.152 <sup>25</sup>	20.30 <sup>6</sup>	6.604 <sup>6</sup>	41.50 <sup>183</sup>
18.5	38.14 <sup>38</sup>	47.48 <sup>325</sup>	59.201 <sup>38</sup>	56.02 <sup>154</sup>	43.177 <sup>22</sup>	20.36 <sup>22</sup>	6.610 <sup>37</sup>	43.33 <sup>160</sup>
28.4	37.76 <sup>50</sup>	50.73 <sup>300</sup>	59.163 <sup>78</sup>	57.56 <sup>128</sup>	43.155 <sup>65</sup>	20.58 <sup>35</sup>	6.573 <sup>77</sup>	44.93 <sup>135</sup>
Sept. 7.4	37.26 <sup>61</sup>	53.73 <sup>268</sup>	59.085 <sup>112</sup>	58.84 <sup>102</sup>	43.090 <sup>102</sup>	20.93 <sup>45</sup>	6.496 <sup>113</sup>	46.28 <sup>109</sup>
17.4	36.65 <sup>70</sup>	56.41 <sup>229</sup>	58.973 <sup>142</sup>	59.86 <sup>74</sup>	42.988 <sup>134</sup>	21.38 <sup>51</sup>	6.383 <sup>141</sup>	47.37 <sup>80</sup>
27.3	35.95 <sup>77</sup>	58.70 <sup>186</sup>	58.831 <sup>161</sup>	60.60 <sup>46</sup>	42.854 <sup>156</sup>	21.89 <sup>55</sup>	6.242 <sup>162</sup>	48.17 <sup>51</sup>
Okt. 7.3	35.18 <sup>83</sup>	60.56 <sup>138</sup>	58.670 <sup>174</sup>	61.06 <sup>16</sup>	42.698 <sup>169</sup>	22.44 <sup>55</sup>	6.080 <sup>175</sup>	48.68 <sup>21</sup>
17.3	34.35 <sup>85</sup>	61.94 <sup>85</sup>	58.496 <sup>178</sup>	61.22 <sup>12</sup>	42.529 <sup>174</sup>	22.99 <sup>53</sup>	5.905 <sup>179</sup>	48.89 <sup>10</sup>
27.3	33.50 <sup>87</sup>	62.79 <sup>30</sup>	58.318 <sup>172</sup>	61.10 <sup>41</sup>	42.355 <sup>167</sup>	23.52 <sup>48</sup>	5.726 <sup>174</sup>	48.79 <sup>39</sup>
Nov. 6.2	32.63 <sup>85</sup>	63.09 <sup>28</sup>	58.146 <sup>159</sup>	60.69 <sup>69</sup>	42.188 <sup>153</sup>	24.00 <sup>44</sup>	5.552 <sup>161</sup>	48.40 <sup>68</sup>
16.2	31.78 <sup>81</sup>	62.81 <sup>87</sup>	57.987 <sup>140</sup>	60.00 <sup>97</sup>	42.035 <sup>131</sup>	24.44 <sup>37</sup>	5.391 <sup>143</sup>	47.72 <sup>97</sup>
26.2	30.97 <sup>75</sup>	61.94 <sup>143</sup>	57.847 <sup>114</sup>	59.03 <sup>122</sup>	41.904 <sup>103</sup>	24.81 <sup>30</sup>	5.248 <sup>117</sup>	46.75 <sup>124</sup>
Dez. 6.2	30.22 <sup>67</sup>	60.51 <sup>197</sup>	57.733 <sup>85</sup>	57.81 <sup>144</sup>	41.801 <sup>70</sup>	25.11 <sup>23</sup>	5.131 <sup>87</sup>	45.51 <sup>147</sup>
16.1	29.55 <sup>57</sup>	58.54 <sup>246</sup>	57.648 <sup>51</sup>	56.37 <sup>163</sup>	41.731 <sup>35</sup>	25.34 <sup>16</sup>	5.044 <sup>56</sup>	44.04 <sup>166</sup>
26.1	28.98 <sup>44</sup>	56.08 <sup>287</sup>	57.597 <sup>18</sup>	54.74 <sup>177</sup>	41.696 <sup>1</sup>	25.50 <sup>9</sup>	4.988 <sup>21</sup>	42.38 <sup>182</sup>
36.1	28.54	53.21	57.579	52.97	41.697	25.59	4.967	40.56
Mittl. Ort sec δ, tg δ	32.53 3.788	27.54 +3.653	56.291 1.032	34.87 +0.255	40.122 1.054	38.80 -0.333	3.694 1.039	22.11 +0.280

Mittlere Zeit Greenw.	775) $\beta$ Pavonis		777) $\alpha$ Cygni		780) $\epsilon$ Cygni		781) $\epsilon$ Aquarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	20 <sup>h</sup> 37 <sup>m</sup>	-66° 28'	20 <sup>h</sup> 38 <sup>m</sup>	+45° 0'	20 <sup>h</sup> 43 <sup>m</sup>	+33° 40'	20 <sup>h</sup> 43 <sup>m</sup>	-9° 46'
Jan. 1.1	58.30	55.78 <sub>260</sub>	47.089	29.63 <sub>284</sub>	4.536	63.66 <sub>250</sub>	29.212 <sub>12</sub>	38.91 <sub>52</sub>
11.1	58.27 <sub>3</sub>	53.18 <sub>277</sub>	47.026 <sub>13</sub>	26.79 <sub>299</sub>	4.501 <sub>5</sub>	61.16 <sub>262</sub>	29.224 <sub>46</sub>	39.43 <sub>45</sub>
21.0	58.34 <sub>16</sub>	50.41 <sub>287</sub>	47.013 <sub>37</sub>	23.80 <sub>305</sub>	4.506 <sub>47</sub>	58.54 <sub>265</sub>	29.270 <sub>79</sub>	39.88 <sub>36</sub>
31.0	58.50 <sub>23</sub>	47.54 <sub>289</sub>	47.050 <sub>89</sub>	20.75 <sub>298</sub>	4.553 <sub>89</sub>	55.89 <sub>257</sub>	29.349 <sub>110</sub>	40.24 <sub>25</sub>
Feb. 10.0	58.73 <sub>31</sub>	44.65 <sub>284</sub>	47.139 <sub>139</sub>	17.77 <sub>280</sub>	4.642 <sub>129</sub>	53.32 <sub>239</sub>	29.459 <sub>140</sub>	40.49 <sub>9</sub>
19.9	59.04 <sub>40</sub>	41.81 <sub>274</sub>	47.278 <sub>186</sub>	14.97 <sub>251</sub>	4.771 <sub>168</sub>	50.93 <sub>210</sub>	29.599 <sub>168</sub>	40.58 <sub>8</sub>
März 1.9	59.44 <sub>46</sub>	39.07 <sub>257</sub>	47.464 <sub>232</sub>	12.46 <sub>210</sub>	4.939 <sub>205</sub>	48.83 <sub>173</sub>	29.767 <sub>196</sub>	40.50 <sub>28</sub>
11.9	59.90 <sub>51</sub>	36.50 <sub>235</sub>	47.696 <sub>271</sub>	10.36 <sub>164</sub>	5.144 <sub>239</sub>	47.10 <sub>129</sub>	29.963 <sub>221</sub>	40.22 <sub>49</sub>
21.9	60.41 <sub>57</sub>	34.15 <sub>209</sub>	47.967 <sub>307</sub>	8.72 <sub>109</sub>	5.383 <sub>268</sub>	45.81 <sub>79</sub>	30.184 <sub>244</sub>	39.73 <sub>71</sub>
31.8	60.98 <sub>61</sub>	32.06 <sub>179</sub>	48.274 <sub>334</sub>	7.63 <sub>52</sub>	5.651 <sub>292</sub>	45.02 <sub>26</sub>	30.428 <sub>264</sub>	39.02 <sub>91</sub>
Apr. 10.8	61.59 <sub>64</sub>	30.27 <sub>144</sub>	48.608 <sub>354</sub>	7.11 <sub>7</sub>	5.943 <sub>312</sub>	44.76 <sub>27</sub>	30.692 <sub>281</sub>	38.11 <sub>110</sub>
20.8	62.23 <sub>66</sub>	28.83 <sub>107</sub>	48.962 <sub>365</sub>	7.18 <sub>66</sub>	6.255 <sub>323</sub>	45.03 <sub>80</sub>	30.973 <sub>293</sub>	37.01 <sub>125</sub>
30.8	62.89 <sub>66</sub>	27.76 <sub>68</sub>	49.327 <sub>368</sub>	7.84 <sub>122</sub>	6.578 <sub>328</sub>	45.83 <sub>129</sub>	31.266 <sub>300</sub>	35.76 <sub>137</sub>
Mai 10.7	63.55 <sub>66</sub>	27.08 <sub>25</sub>	49.695 <sub>359</sub>	9.06 <sub>172</sub>	6.906 <sub>324</sub>	47.12 <sub>175</sub>	31.566 <sub>301</sub>	34.39 <sub>146</sub>
20.7	64.21 <sub>64</sub>	26.83 <sub>16</sub>	50.054 <sub>343</sub>	10.78 <sub>219</sub>	7.230 <sub>312</sub>	48.87 <sub>213</sub>	31.867 <sub>294</sub>	32.93 <sub>147</sub>
30.7	64.85 <sub>61</sub>	26.99 <sub>58</sub>	50.397 <sub>317</sub>	12.97 <sub>256</sub>	7.542 <sub>292</sub>	51.00 <sub>246</sub>	32.161 <sub>282</sub>	31.46 <sub>147</sub>
Juni 9.6	65.46 <sub>55</sub>	27.57 <sub>100</sub>	50.714 <sub>282</sub>	15.53 <sub>287</sub>	7.834 <sub>265</sub>	53.46 <sub>271</sub>	32.443 <sub>261</sub>	29.99 <sub>140</sub>
19.6	66.01 <sub>49</sub>	28.57 <sub>137</sub>	50.996 <sub>241</sub>	18.40 <sub>309</sub>	8.099 <sub>230</sub>	56.17 <sub>288</sub>	32.704 <sub>234</sub>	28.59 <sub>130</sub>
29.6	66.50 <sub>41</sub>	29.94 <sub>171</sub>	51.237 <sub>191</sub>	21.49 <sub>324</sub>	8.329 <sub>189</sub>	59.05 <sub>298</sub>	32.938 <sub>201</sub>	27.29 <sub>117</sub>
Juli 9.6	66.91 <sub>32</sub>	31.65 <sub>201</sub>	51.428 <sub>139</sub>	24.73 <sub>329</sub>	8.518 <sub>144</sub>	62.03 <sub>300</sub>	33.139 <sub>162</sub>	26.12 <sub>101</sub>
19.5	67.23 <sub>23</sub>	33.66 <sub>224</sub>	51.567 <sub>82</sub>	28.02 <sub>328</sub>	8.662 <sub>95</sub>	65.03 <sub>295</sub>	33.301 <sub>120</sub>	25.11 <sub>83</sub>
29.5	67.46 <sub>12</sub>	35.90 <sub>240</sub>	51.649 <sub>25</sub>	31.30 <sub>319</sub>	8.757 <sub>45</sub>	67.98 <sub>285</sub>	33.421 <sub>74</sub>	24.28 <sub>63</sub>
Aug. 8.5	67.58 <sub>2</sub>	38.30 <sub>247</sub>	51.674 <sub>32</sub>	34.49 <sub>302</sub>	8.802 <sub>5</sub>	70.83 <sub>266</sub>	33.495 <sub>30</sub>	23.65 <sub>45</sub>
18.5	67.60 <sub>9</sub>	40.77 <sub>247</sub>	51.642 <sub>87</sub>	37.51 <sub>280</sub>	8.797 <sub>54</sub>	73.49 <sub>244</sub>	33.525 <sub>16</sub>	23.20 <sub>27</sub>
28.4	67.51 <sub>19</sub>	43.24 <sub>237</sub>	51.555 <sub>137</sub>	40.31 <sub>252</sub>	8.743 <sub>99</sub>	75.93 <sub>217</sub>	33.509 <sub>57</sub>	22.93 <sub>9</sub>
Sept. 7.4	67.32 <sub>27</sub>	45.61 <sub>217</sub>	51.418 <sub>182</sub>	42.83 <sub>218</sub>	8.644 <sub>138</sub>	78.10 <sub>185</sub>	33.452 <sub>94</sub>	22.84 <sub>6</sub>
17.4	67.05 <sub>35</sub>	47.78 <sub>190</sub>	51.236 <sub>218</sub>	45.01 <sub>180</sub>	8.506 <sub>171</sub>	79.95 <sub>149</sub>	33.358 <sub>124</sub>	22.90 <sub>19</sub>
27.3	66.70 <sub>42</sub>	49.68 <sub>154</sub>	51.018 <sub>246</sub>	46.81 <sub>138</sub>	8.335 <sub>195</sub>	81.44 <sub>112</sub>	33.234 <sub>146</sub>	23.09 <sub>30</sub>
Okt. 7.3	66.28 <sub>45</sub>	51.22 <sub>111</sub>	50.772 <sub>265</sub>	48.19 <sub>93</sub>	8.140 <sub>212</sub>	82.56 <sub>71</sub>	33.088 <sub>161</sub>	23.39 <sub>39</sub>
17.3	65.83 <sub>47</sub>	52.33 <sub>65</sub>	50.507 <sub>274</sub>	49.12 <sub>44</sub>	7.928 <sub>218</sub>	83.27 <sub>29</sub>	32.927 <sub>165</sub>	23.78 <sub>46</sub>
27.3	65.36 <sub>47</sub>	52.98 <sub>14</sub>	50.233 <sub>272</sub>	49.56 <sub>5</sub>	7.710 <sub>216</sub>	83.56 <sub>15</sub>	32.762 <sub>160</sub>	24.24 <sub>50</sub>
Nov. 6.2	64.89 <sub>44</sub>	53.12 <sub>37</sub>	49.961 <sub>261</sub>	49.51 <sub>56</sub>	7.494 <sub>206</sub>	83.41 <sub>59</sub>	32.602 <sub>148</sub>	24.74 <sub>54</sub>
16.2	64.45 <sub>40</sub>	52.75 <sub>87</sub>	49.700 <sub>241</sub>	48.95 <sub>107</sub>	7.288 <sub>187</sub>	82.82 <sub>102</sub>	32.454 <sub>129</sub>	25.28 <sub>57</sub>
26.2	64.05 <sub>34</sub>	51.88 <sub>135</sub>	49.459 <sub>214</sub>	47.88 <sub>154</sub>	7.101 <sub>163</sub>	81.80 <sub>143</sub>	32.325 <sub>103</sub>	25.85 <sub>58</sub>
Dez. 6.2	63.71 <sub>26</sub>	50.53 <sub>177</sub>	49.245 <sub>178</sub>	46.34 <sub>199</sub>	6.938 <sub>132</sub>	80.37 <sub>181</sub>	32.222 <sub>74</sub>	26.43 <sub>59</sub>
16.1	63.45 <sub>18</sub>	48.76 <sub>214</sub>	49.067 <sub>138</sub>	44.35 <sub>238</sub>	6.806 <sub>98</sub>	78.56 <sub>213</sub>	32.148 <sub>41</sub>	27.02 <sub>58</sub>
26.1	63.27 <sub>9</sub>	46.62 <sub>244</sub>	48.929 <sub>93</sub>	41.97 <sub>269</sub>	6.708 <sub>60</sub>	76.43 <sub>240</sub>	32.107 <sub>8</sub>	27.60 <sub>56</sub>
36.1	63.18	44.18	48.836	39.28	6.648	74.03	32.099	28.16
Mittl. Ort	62.34	53.02	48.385	16.13	5.709	51.88	30.545	42.75
sec $\delta$ , tg $\delta$	2.506	-2.298	1.414	+1.000	1.202	+0.667	1.015	-0.172



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	783) $\gamma$ Cephei		784) $\lambda$ Cygni		785) $\beta$ Indi		786) $\zeta$ Vulpeculae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	20 <sup>h</sup> 43 <sup>m</sup>	+61° 32'	20 <sup>h</sup> 44 <sup>m</sup>	+36° 12'	20 <sup>h</sup> 48 <sup>m</sup>	-58° 44'	20 <sup>h</sup> 51 <sup>m</sup>	+27° 45'
Jan. 1.1	41.89 <sub>16</sub>	37.23 <sub>298</sub>	23.327 <sub>43</sub>	37.75 <sub>257</sub>	45.101 <sub>27</sub>	48.32 <sub>221</sub>	15.548 <sub>31</sub>	61.23 <sub>227</sub>
II.1	41.73 <sub>9</sub>	34.25 <sub>322</sub>	23.284 <sub>1</sub>	35.18 <sub>272</sub>	45.074 <sub>44</sub>	46.11 <sub>241</sub>	15.517 <sub>5</sub>	58.96 <sub>238</sub>
21.0	41.64 <sub>0</sub>	31.03 <sub>333</sub>	23.283 <sub>42</sub>	32.46 <sub>275</sub>	45.118 <sub>110</sub>	43.70 <sub>253</sub>	15.522 <sub>44</sub>	56.58 <sub>240</sub>
31.0	41.64 <sub>7</sub>	27.70 <sub>331</sub>	23.325 <sub>85</sub>	29.71 <sub>268</sub>	45.228 <sub>176</sub>	41.17 <sub>260</sub>	15.566 <sub>81</sub>	54.18 <sub>231</sub>
Feb. 10.0	41.71 <sub>15</sub>	24.39 <sub>317</sub>	23.410 <sub>128</sub>	27.03 <sub>250</sub>	45.404 <sub>236</sub>	38.57 <sub>260</sub>	15.647 <sub>119</sub>	51.87 <sub>214</sub>
20.0	41.86 <sub>24</sub>	21.22 <sub>291</sub>	23.538 <sub>168</sub>	24.53 <sub>221</sub>	45.640 <sub>293</sub>	35.97 <sub>256</sub>	15.766 <sub>154</sub>	49.73 <sub>188</sub>
März 1.9	42.10 <sub>30</sub>	18.31 <sub>253</sub>	23.706 <sub>206</sub>	22.32 <sub>184</sub>	45.933 <sub>346</sub>	33.41 <sub>245</sub>	15.920 <sub>190</sub>	47.85 <sub>152</sub>
II.9	42.40 <sub>36</sub>	15.78 <sub>205</sub>	23.912 <sub>242</sub>	20.48 <sub>139</sub>	46.279 <sub>392</sub>	30.96 <sub>230</sub>	16.110 <sub>222</sub>	46.33 <sub>111</sub>
21.9	42.76 <sub>43</sub>	13.73 <sub>149</sub>	24.154 <sub>273</sub>	19.09 <sub>88</sub>	46.671 <sub>433</sub>	28.66 <sub>211</sub>	16.332 <sub>250</sub>	45.22 <sub>65</sub>
31.8	43.19 <sub>46</sub>	12.24 <sub>90</sub>	24.427 <sub>298</sub>	18.21 <sub>35</sub>	47.104 <sub>467</sub>	26.55 <sub>187</sub>	16.582 <sub>275</sub>	44.57 <sub>16</sub>
Apr. 10.8	43.65 <sub>49</sub>	11.34 <sub>26</sub>	24.725 <sub>318</sub>	17.86 <sub>20</sub>	47.571 <sub>496</sub>	24.68 <sub>160</sub>	16.857 <sub>294</sub>	44.41 <sub>34</sub>
20.8	44.14 <sub>51</sub>	11.08 <sub>37</sub>	25.043 <sub>330</sub>	18.06 <sub>75</sub>	48.067 <sub>515</sub>	23.08 <sub>128</sub>	17.151 <sub>308</sub>	44.75 <sub>82</sub>
30.8	44.65 <sub>50</sub>	11.45 <sub>99</sub>	25.373 <sub>334</sub>	18.81 <sub>126</sub>	48.582 <sub>525</sub>	21.80 <sub>94</sub>	17.459 <sub>314</sub>	45.57 <sub>129</sub>
Mai 10.7	45.15 <sub>49</sub>	12.44 <sub>156</sub>	25.707 <sub>330</sub>	20.07 <sub>171</sub>	49.107 <sub>525</sub>	20.86 <sub>58</sub>	17.773 <sub>313</sub>	46.86 <sub>169</sub>
20.7	45.64 <sub>46</sub>	14.00 <sub>208</sub>	26.037 <sub>318</sub>	21.78 <sub>213</sub>	49.632 <sub>513</sub>	20.28 <sub>19</sub>	18.086 <sub>304</sub>	48.55 <sub>206</sub>
30.7	46.10 <sub>43</sub>	16.08 <sub>253</sub>	26.355 <sub>297</sub>	23.91 <sub>247</sub>	50.145 <sub>490</sub>	20.09 <sub>20</sub>	18.390 <sub>288</sub>	50.61 <sub>233</sub>
Juni 9.7	46.53 <sub>36</sub>	18.61 <sub>292</sub>	26.652 <sub>269</sub>	26.38 <sub>274</sub>	50.635 <sub>454</sub>	20.29 <sub>58</sub>	18.678 <sub>263</sub>	52.94 <sub>257</sub>
19.6	46.89 <sub>31</sub>	21.53 <sub>321</sub>	26.921 <sub>233</sub>	29.12 <sub>292</sub>	51.089 <sub>407</sub>	20.87 <sub>96</sub>	18.941 <sub>231</sub>	55.51 <sub>271</sub>
29.6	47.20 <sub>23</sub>	24.74 <sub>342</sub>	27.154 <sub>191</sub>	32.04 <sub>303</sub>	51.496 <sub>349</sub>	21.83 <sub>130</sub>	19.172 <sub>195</sub>	58.22 <sub>279</sub>
Juli 9.6	47.43 <sub>16</sub>	28.16 <sub>354</sub>	27.345 <sub>145</sub>	35.07 <sub>307</sub>	51.845 <sub>283</sub>	23.13 <sub>160</sub>	19.367 <sub>152</sub>	61.01 <sub>279</sub>
19.5	47.59 <sub>8</sub>	31.70 <sub>358</sub>	27.490 <sub>95</sub>	38.14 <sub>304</sub>	52.128 <sub>207</sub>	24.73 <sub>187</sub>	19.519 <sub>106</sub>	63.80 <sub>274</sub>
29.5	47.67 <sub>0</sub>	35.28 <sub>355</sub>	27.585 <sub>43</sub>	41.18 <sub>292</sub>	52.335 <sub>127</sub>	26.60 <sub>205</sub>	19.625 <sub>58</sub>	66.54 <sub>262</sub>
Aug. 8.5	47.67 <sub>9</sub>	38.83 <sub>342</sub>	27.628 <sub>9</sub>	44.10 <sub>276</sub>	52.462 <sub>44</sub>	28.65 <sub>218</sub>	19.683 <sub>11</sub>	69.16 <sub>244</sub>
18.5	47.58 <sub>15</sub>	42.25 <sub>323</sub>	27.619 <sub>58</sub>	46.86 <sub>253</sub>	52.506 <sub>38</sub>	30.83 <sub>222</sub>	19.694 <sub>37</sub>	71.60 <sub>222</sub>
28.4	47.43 <sub>24</sub>	45.48 <sub>297</sub>	27.561 <sub>104</sub>	49.39 <sub>226</sub>	52.468 <sub>117</sub>	33.05 <sub>218</sub>	19.657 <sub>79</sub>	73.82 <sub>196</sub>
Sept. 7.4	47.19 <sub>29</sub>	48.45 <sub>265</sub>	27.457 <sub>144</sub>	51.65 <sub>194</sub>	52.351 <sub>188</sub>	35.23 <sub>206</sub>	19.578 <sub>118</sub>	75.78 <sub>167</sub>
17.4	46.90 <sub>34</sub>	51.10 <sub>226</sub>	27.313 <sub>178</sub>	53.59 <sub>158</sub>	52.163 <sub>250</sub>	37.29 <sub>184</sub>	19.460 <sub>151</sub>	77.45 <sub>133</sub>
27.4	46.56 <sub>39</sub>	53.36 <sub>182</sub>	27.135 <sub>204</sub>	55.17 <sub>120</sub>	51.913 <sub>298</sub>	39.13 <sub>156</sub>	19.309 <sub>174</sub>	78.78 <sub>99</sub>
Okt. 7.3	46.17 <sub>42</sub>	55.18 <sub>135</sub>	26.931 <sub>220</sub>	56.37 <sub>77</sub>	51.615 <sub>330</sub>	40.69 <sub>121</sub>	19.135 <sub>191</sub>	79.77 <sub>61</sub>
17.3	45.75 <sub>44</sub>	56.53 <sub>83</sub>	26.711 <sub>228</sub>	57.14 <sub>34</sub>	51.285 <sub>348</sub>	41.90 <sub>79</sub>	18.944 <sub>198</sub>	80.38 <sub>22</sub>
27.3	45.31 <sub>44</sub>	57.36 <sub>28</sub>	26.483 <sub>226</sub>	57.48 <sub>11</sub>	50.937 <sub>346</sub>	42.69 <sub>36</sub>	18.746 <sub>197</sub>	80.60 <sub>16</sub>
Nov. 6.2	44.87 <sub>43</sub>	57.64 <sub>28</sub>	26.257 <sub>217</sub>	57.37 <sub>57</sub>	50.591 <sub>329</sub>	43.05 <sub>9</sub>	18.549 <sub>188</sub>	80.44 <sub>55</sub>
16.2	44.44 <sub>41</sub>	57.36 <sub>86</sub>	26.040 <sub>198</sub>	56.80 <sub>101</sub>	50.262 <sub>297</sub>	42.96 <sub>56</sub>	18.361 <sub>171</sub>	79.89 <sub>95</sub>
26.2	44.03 <sub>37</sub>	56.50 <sub>141</sub>	25.842 <sub>174</sub>	55.79 <sub>145</sub>	49.965 <sub>252</sub>	42.40 <sub>99</sub>	18.190 <sub>148</sub>	78.94 <sub>131</sub>
Dez. 6.2	43.66 <sub>34</sub>	55.09 <sub>193</sub>	25.668 <sub>142</sub>	54.34 <sub>184</sub>	49.713 <sub>197</sub>	41.41 <sub>139</sub>	18.042 <sub>121</sub>	77.63 <sub>166</sub>
16.1	43.32 <sub>27</sub>	53.16 <sub>240</sub>	25.526 <sub>108</sub>	52.50 <sub>219</sub>	49.516 <sub>133</sub>	40.02 <sub>174</sub>	17.921 <sub>89</sub>	75.97 <sub>195</sub>
26.1	43.05 <sub>21</sub>	50.76 <sub>280</sub>	25.418 <sub>68</sub>	50.31 <sub>247</sub>	49.383 <sub>66</sub>	38.28 <sub>204</sub>	17.832 <sub>54</sub>	74.02 <sub>217</sub>
36.1	42.84	47.96	25.350	47.84	49.317	36.24	17.778	71.85
Mittl. Ort sec $\delta$ , tg $\delta$	43.57 2.099	21.45 +1.845	24.507 1.239	25.52 +0.732	48.146 1.927	45.00 -1.648	16.663 1.130	50.42 +0.526

Mittlere Zeit Greenw.	788) $\nu$ Cygni		790) $\zeta$ Microscopii		793) $\delta$ Cygni pr.*)		794) $\nu$ Aquarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	20 <sup>h</sup> 54 <sup>m</sup>	+40° 52'	20 <sup>h</sup> 58 <sup>m</sup>	-38° 55'	21 <sup>h</sup> 3 <sup>m</sup>	+38° 22'	21 <sup>h</sup> 5 <sup>m</sup>	-11° 40'
1923								
Jan. 1.1	16.945 <sup>67</sup>	25.02 <sup>264</sup>	1.108 <sup>6</sup>	61.55 <sup>115</sup>	25.537 <sup>54</sup>	24.69 <sup>244</sup>	22.818 <sup>7</sup>	61.02 <sup>39</sup>
11.1	16.878 <sup>22</sup>	22.38 <sup>281</sup>	1.102 <sup>37</sup>	60.40 <sup>133</sup>	25.483 <sup>13</sup>	22.25 <sup>260</sup>	22.811 <sup>26</sup>	61.41 <sup>30</sup>
21.0	16.856 <sup>24</sup>	19.57 <sup>287</sup>	1.139 <sup>79</sup>	59.07 <sup>146</sup>	25.470 <sup>30</sup>	19.65 <sup>268</sup>	22.837 <sup>57</sup>	61.71 <sup>20</sup>
31.0	16.880 <sup>70</sup>	16.70 <sup>284</sup>	1.218 <sup>120</sup>	57.61 <sup>159</sup>	25.500 <sup>74</sup>	16.97 <sup>263</sup>	22.894 <sup>89</sup>	61.91 <sup>7</sup>
Feb. 10.0	16.950 <sup>117</sup>	13.86 <sup>267</sup>	1.338 <sup>158</sup>	56.02 <sup>166</sup>	25.574 <sup>119</sup>	14.34 <sup>248</sup>	22.983 <sup>120</sup>	61.98 <sup>8</sup>
20.0	17.067 <sup>162</sup>	11.19 <sup>241</sup>	1.496 <sup>196</sup>	54.36 <sup>174</sup>	25.693 <sup>162</sup>	11.86 <sup>223</sup>	23.103 <sup>149</sup>	61.90 <sup>25</sup>
März 1.9	17.229 <sup>204</sup>	8.78 <sup>205</sup>	1.692 <sup>230</sup>	52.62 <sup>176</sup>	25.855 <sup>203</sup>	9.63 <sup>187</sup>	23.252 <sup>178</sup>	61.65 <sup>45</sup>
11.9	17.433 <sup>244</sup>	6.73 <sup>161</sup>	1.922 <sup>263</sup>	50.86 <sup>176</sup>	26.058 <sup>242</sup>	7.76 <sup>144</sup>	23.430 <sup>205</sup>	61.20 <sup>64</sup>
21.9	17.677 <sup>279</sup>	5.12 <sup>109</sup>	2.185 <sup>292</sup>	49.10 <sup>175</sup>	26.300 <sup>276</sup>	6.32 <sup>95</sup>	23.635 <sup>232</sup>	60.56 <sup>85</sup>
31.9	17.956 <sup>309</sup>	4.03 <sup>54</sup>	2.477 <sup>319</sup>	47.35 <sup>168</sup>	26.576 <sup>306</sup>	5.37 <sup>41</sup>	23.867 <sup>255</sup>	59.71 <sup>104</sup>
Apr. 10.8	18.265 <sup>330</sup>	3.49 <sup>2</sup>	2.796 <sup>341</sup>	45.67 <sup>158</sup>	26.882 <sup>329</sup>	4.96 <sup>14</sup>	24.122 <sup>274</sup>	58.67 <sup>121</sup>
20.8	18.595 <sup>346</sup>	3.51 <sup>59</sup>	3.137 <sup>358</sup>	44.09 <sup>145</sup>	27.211 <sup>345</sup>	5.10 <sup>68</sup>	24.396 <sup>291</sup>	57.46 <sup>135</sup>
30.8	18.941 <sup>351</sup>	4.10 <sup>113</sup>	3.495 <sup>369</sup>	42.64 <sup>129</sup>	27.556 <sup>352</sup>	5.78 <sup>122</sup>	24.687 <sup>301</sup>	56.11 <sup>145</sup>
Mai 10.7	19.292 <sup>348</sup>	5.23 <sup>162</sup>	3.864 <sup>372</sup>	41.35 <sup>107</sup>	27.908 <sup>351</sup>	7.00 <sup>170</sup>	24.988 <sup>305</sup>	54.66 <sup>151</sup>
20.7	19.640 <sup>337</sup>	6.85 <sup>207</sup>	4.236 <sup>367</sup>	40.28 <sup>84</sup>	28.259 <sup>341</sup>	8.70 <sup>213</sup>	25.293 <sup>303</sup>	53.15 <sup>153</sup>
30.7	19.977 <sup>316</sup>	8.92 <sup>244</sup>	4.603 <sup>355</sup>	39.44 <sup>58</sup>	28.600 <sup>323</sup>	10.83 <sup>250</sup>	25.596 <sup>292</sup>	51.62 <sup>149</sup>
Juni 9.7	20.293 <sup>286</sup>	11.36 <sup>275</sup>	4.958 <sup>332</sup>	38.86 <sup>30</sup>	28.923 <sup>295</sup>	13.33 <sup>280</sup>	25.888 <sup>276</sup>	50.13 <sup>142</sup>
19.6	20.579 <sup>249</sup>	14.11 <sup>298</sup>	5.290 <sup>302</sup>	38.56 <sup>1</sup>	29.218 <sup>261</sup>	16.13 <sup>301</sup>	26.164 <sup>251</sup>	48.71 <sup>130</sup>
29.6	20.828 <sup>206</sup>	17.09 <sup>312</sup>	5.592 <sup>263</sup>	38.55 <sup>29</sup>	29.479 <sup>219</sup>	19.14 <sup>315</sup>	26.415 <sup>210</sup>	47.41 <sup>115</sup>
Juli 9.6	21.034 <sup>157</sup>	20.21 <sup>319</sup>	5.855 <sup>217</sup>	38.84 <sup>55</sup>	29.698 <sup>172</sup>	22.29 <sup>322</sup>	26.635 <sup>182</sup>	46.26 <sup>97</sup>
19.6	21.191 <sup>105</sup>	23.40 <sup>318</sup>	6.072 <sup>167</sup>	39.39 <sup>82</sup>	29.870 <sup>123</sup>	25.51 <sup>320</sup>	26.817 <sup>142</sup>	45.29 <sup>78</sup>
29.5	21.296 <sup>51</sup>	26.58 <sup>311</sup>	6.239 <sup>111</sup>	40.21 <sup>104</sup>	29.993 <sup>69</sup>	28.71 <sup>313</sup>	26.959 <sup>97</sup>	44.51 <sup>57</sup>
Aug. 8.5	21.347 <sup>4</sup>	29.69 <sup>295</sup>	6.350 <sup>54</sup>	41.25 <sup>121</sup>	30.062 <sup>18</sup>	31.84 <sup>297</sup>	27.056 <sup>50</sup>	43.94 <sup>38</sup>
18.5	21.343 <sup>56</sup>	32.64 <sup>275</sup>	6.404 <sup>3</sup>	42.46 <sup>134</sup>	30.080 <sup>34</sup>	34.81 <sup>277</sup>	27.106 <sup>6</sup>	43.56 <sup>17</sup>
28.4	21.287 <sup>105</sup>	35.39 <sup>248</sup>	6.401 <sup>56</sup>	43.80 <sup>140</sup>	30.046 <sup>82</sup>	37.58 <sup>251</sup>	27.112 <sup>37</sup>	43.39 <sup>0</sup>
Sept. 7.4	21.182 <sup>148</sup>	37.87 <sup>217</sup>	6.345 <sup>106</sup>	45.20 <sup>141</sup>	29.964 <sup>125</sup>	40.09 <sup>220</sup>	27.075 <sup>77</sup>	43.39 <sup>16</sup>
17.4	21.034 <sup>185</sup>	40.04 <sup>181</sup>	6.239 <sup>148</sup>	46.61 <sup>135</sup>	29.839 <sup>160</sup>	42.29 <sup>186</sup>	26.998 <sup>108</sup>	43.55 <sup>29</sup>
27.4	20.849 <sup>214</sup>	41.85 <sup>142</sup>	6.091 <sup>180</sup>	47.96 <sup>124</sup>	29.679 <sup>188</sup>	44.15 <sup>146</sup>	26.890 <sup>135</sup>	43.84 <sup>40</sup>
Okt. 7.3	20.635 <sup>233</sup>	43.27 <sup>99</sup>	5.911 <sup>202</sup>	49.20 <sup>105</sup>	29.491 <sup>209</sup>	45.61 <sup>106</sup>	26.755 <sup>151</sup>	44.24 <sup>47</sup>
17.3	20.402 <sup>244</sup>	44.26 <sup>53</sup>	5.709 <sup>213</sup>	50.25 <sup>84</sup>	29.282 <sup>220</sup>	46.67 <sup>61</sup>	26.604 <sup>160</sup>	44.71 <sup>52</sup>
27.3	20.158 <sup>245</sup>	44.79 <sup>5</sup>	5.496 <sup>212</sup>	51.09 <sup>59</sup>	29.062 <sup>221</sup>	47.28 <sup>16</sup>	26.444 <sup>159</sup>	45.23 <sup>56</sup>
Nov. 6.3	19.913 <sup>238</sup>	44.84 <sup>42</sup>	5.284 <sup>200</sup>	51.68 <sup>30</sup>	28.841 <sup>215</sup>	47.44 <sup>31</sup>	26.285 <sup>150</sup>	45.79 <sup>56</sup>
16.2	19.675 <sup>221</sup>	44.42 <sup>90</sup>	5.084 <sup>179</sup>	51.98 <sup>2</sup>	28.626 <sup>200</sup>	47.13 <sup>77</sup>	26.135 <sup>135</sup>	46.35 <sup>57</sup>
26.2	19.454 <sup>198</sup>	43.52 <sup>137</sup>	4.905 <sup>150</sup>	52.00 <sup>26</sup>	28.426 <sup>178</sup>	46.36 <sup>121</sup>	26.000 <sup>112</sup>	46.92 <sup>55</sup>
Dez. 6.2	19.256 <sup>168</sup>	42.15 <sup>180</sup>	4.755 <sup>113</sup>	51.74 <sup>54</sup>	28.248 <sup>150</sup>	45.15 <sup>163</sup>	25.888 <sup>86</sup>	47.47 <sup>52</sup>
16.1	19.088 <sup>132</sup>	40.35 <sup>219</sup>	4.642 <sup>74</sup>	51.20 <sup>78</sup>	28.098 <sup>117</sup>	43.52 <sup>200</sup>	25.802 <sup>57</sup>	47.99 <sup>49</sup>
26.1	18.956 <sup>93</sup>	38.16 <sup>249</sup>	4.568 <sup>31</sup>	50.42 <sup>101</sup>	27.981 <sup>80</sup>	41.52 <sup>231</sup>	25.745 <sup>25</sup>	48.48 <sup>43</sup>
36.1	18.863	35.67	4.537	49.41	27.901	39.21	25.720	48.91
Mittl. Ort sec $\delta$ , tg $\delta$	18.101 1.323	11.85 +0.865	3.005 1.285	59.66 -0.808	26.635 1.275	12.05 +0.792	24.108 1.021	63.51 -0.207

\*) Die jährliche Parallaxe (0.30) ist bereits berücksichtigt

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	795) Br. 2777		797) ζ Cygni		800) α Equulei		803) α Cephei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	21 <sup>h</sup> 6 <sup>m</sup>	+77° 48'	21 <sup>h</sup> 9 <sup>m</sup>	+29° 54'	21 <sup>h</sup> 11 <sup>m</sup>	+4° 55'	21 <sup>h</sup> 16 <sup>m</sup>	+62° 15'
Jan. I.I	61.21 <sub>60</sub>	70.24 <sub>272</sub>	38.464 <sub>53</sub>	48.51 <sub>225</sub>	57.416 <sub>20</sub>	49.00 <sub>122</sub>	43.22 <sub>22</sub>	49.05 <sub>273</sub>
II.I	60.61 <sub>42</sub>	67.52 <sub>306</sub>	38.411 <sub>16</sub>	46.26 <sub>237</sub>	57.396 <sub>10</sub>	47.78 <sub>124</sub>	43.00 <sub>15</sub>	46.32 <sub>303</sub>
21.I	60.19 <sub>24</sub>	64.46 <sub>319</sub>	38.395 <sub>20</sub>	43.89 <sub>243</sub>	57.406 <sub>42</sub>	46.54 <sub>118</sub>	42.85 <sub>8</sub>	43.29 <sub>323</sub>
31.0	59.95 <sub>5</sub>	61.17 <sub>338</sub>	38.415 <sub>60</sub>	41.46 <sub>238</sub>	57.448 <sub>72</sub>	45.36 <sub>108</sub>	42.77 <sub>1</sub>	40.06 <sub>330</sub>
Feb. 10.0	59.90 <sub>15</sub>	57.79 <sub>335</sub>	38.475 <sub>98</sub>	39.08 <sub>223</sub>	57.520 <sub>104</sub>	44.28 <sub>91</sub>	42.78 <sub>9</sub>	36.76 <sub>324</sub>
20.0	60.05 <sub>34</sub>	54.44 <sub>319</sub>	38.573 <sub>137</sub>	36.85 <sub>200</sub>	57.624 <sub>134</sub>	43.37 <sub>70</sub>	42.87 <sub>17</sub>	33.52 <sub>306</sub>
März 1.9	60.39 <sub>51</sub>	51.25 <sub>289</sub>	38.710 <sub>173</sub>	34.85 <sub>167</sub>	57.758 <sub>164</sub>	42.67 <sub>44</sub>	43.04 <sub>25</sub>	30.46 <sub>275</sub>
11.9	60.90 <sub>69</sub>	48.36 <sub>250</sub>	38.883 <sub>209</sub>	33.18 <sub>126</sub>	57.922 <sub>193</sub>	42.23 <sub>14</sub>	43.29 <sub>32</sub>	27.71 <sub>234</sub>
21.9	61.59 <sub>81</sub>	45.86 <sub>201</sub>	39.092 <sub>241</sub>	31.92 <sub>82</sub>	58.115 <sub>219</sub>	42.09 <sub>18</sub>	43.61 <sub>39</sub>	25.37 <sub>184</sub>
31.9	62.40 <sub>93</sub>	43.85 <sub>145</sub>	39.333 <sub>269</sub>	31.10 <sub>33</sub>	58.334 <sub>245</sub>	42.27 <sub>50</sub>	44.00 <sub>44</sub>	23.53 <sub>129</sub>
Apr. 10.8	63.33 <sub>100</sub>	42.40 <sub>84</sub>	39.602 <sub>292</sub>	30.77 <sub>18</sub>	58.579 <sub>265</sub>	42.77 <sub>83</sub>	44.44 <sub>48</sub>	22.24 <sub>67</sub>
20.8	64.33 <sub>105</sub>	41.56 <sub>22</sub>	39.894 <sub>309</sub>	30.95 <sub>68</sub>	58.844 <sub>281</sub>	43.60 <sub>113</sub>	44.92 <sub>51</sub>	21.57 <sub>5</sub>
30.8	65.38 <sub>105</sub>	41.34 <sub>41</sub>	40.203 <sub>319</sub>	31.63 <sub>115</sub>	59.125 <sub>293</sub>	44.73 <sub>139</sub>	45.43 <sub>52</sub>	21.52 <sub>56</sub>
Mai 10.8	66.43 <sub>102</sub>	41.75 <sub>102</sub>	40.522 <sub>321</sub>	32.78 <sub>158</sub>	59.418 <sub>297</sub>	46.12 <sub>163</sub>	45.95 <sub>52</sub>	22.08 <sub>116</sub>
20.7	67.45 <sub>97</sub>	42.77 <sub>158</sub>	40.843 <sub>315</sub>	34.36 <sub>196</sub>	59.715 <sub>295</sub>	47.75 <sub>179</sub>	46.47 <sub>50</sub>	23.24 <sub>172</sub>
30.7	68.42 <sub>88</sub>	44.35 <sub>209</sub>	41.158 <sub>301</sub>	36.32 <sub>229</sub>	60.010 <sub>284</sub>	49.54 <sub>191</sub>	46.97 <sub>46</sub>	24.96 <sub>220</sub>
Juni 9.7	69.30 <sub>77</sub>	46.44 <sub>254</sub>	41.459 <sub>278</sub>	38.61 <sub>254</sub>	60.294 <sub>268</sub>	51.45 <sub>198</sub>	47.43 <sub>43</sub>	27.16 <sub>264</sub>
19.6	70.07 <sub>64</sub>	48.98 <sub>292</sub>	41.737 <sub>249</sub>	41.15 <sub>272</sub>	60.562 <sub>243</sub>	53.43 <sub>198</sub>	47.86 <sub>36</sub>	29.80 <sub>299</sub>
29.6	70.71 <sub>49</sub>	51.90 <sub>321</sub>	41.986 <sub>212</sub>	43.87 <sub>282</sub>	60.805 <sub>213</sub>	55.41 <sub>193</sub>	48.22 <sub>30</sub>	32.79 <sub>326</sub>
Juli 9.6	71.20 <sub>32</sub>	55.11 <sub>343</sub>	42.198 <sub>171</sub>	46.69 <sub>287</sub>	61.018 <sub>177</sub>	57.34 <sub>184</sub>	48.52 <sub>23</sub>	36.05 <sub>345</sub>
19.6	71.52 <sub>16</sub>	58.54 <sub>356</sub>	42.369 <sub>126</sub>	49.56 <sub>283</sub>	61.195 <sub>136</sub>	59.18 <sub>171</sub>	48.75 <sub>14</sub>	39.50 <sub>357</sub>
29.5	71.68 <sub>0</sub>	62.10 <sub>362</sub>	42.495 <sub>77</sub>	52.39 <sub>274</sub>	61.331 <sub>94</sub>	60.89 <sub>154</sub>	48.89 <sub>7</sub>	43.07 <sub>358</sub>
Aug. 8.5	71.68 <sub>18</sub>	65.72 <sub>358</sub>	42.572 <sub>28</sub>	55.13 <sub>258</sub>	61.425 <sub>48</sub>	62.43 <sub>134</sub>	48.96 <sub>2</sub>	46.65 <sub>354</sub>
18.5	71.50 <sub>34</sub>	69.30 <sub>348</sub>	42.600 <sub>19</sub>	57.71 <sub>239</sub>	61.473 <sub>5</sub>	63.77 <sub>114</sub>	48.94 <sub>9</sub>	50.19 <sub>340</sub>
28.5	71.16 <sub>50</sub>	72.78 <sub>330</sub>	42.581 <sub>64</sub>	60.10 <sub>214</sub>	61.478 <sub>37</sub>	64.91 <sub>91</sub>	48.85 <sub>17</sub>	53.59 <sub>320</sub>
Sept. 7.4	70.66 <sub>64</sub>	76.08 <sub>306</sub>	42.517 <sub>104</sub>	62.24 <sub>184</sub>	61.441 <sub>74</sub>	65.82 <sub>68</sub>	48.68 <sub>24</sub>	56.79 <sub>293</sub>
17.4	70.02 <sub>76</sub>	79.14 <sub>273</sub>	42.413 <sub>139</sub>	64.08 <sub>153</sub>	61.367 <sub>106</sub>	66.50 <sub>46</sub>	48.44 <sub>30</sub>	59.72 <sub>260</sub>
27.4	69.26 <sub>88</sub>	81.87 <sub>235</sub>	42.274 <sub>166</sub>	65.61 <sub>118</sub>	61.261 <sub>131</sub>	66.96 <sub>24</sub>	48.14 <sub>35</sub>	62.32 <sub>220</sub>
Okt. 7.3	68.38 <sub>96</sub>	84.22 <sub>191</sub>	42.108 <sub>185</sub>	66.79 <sub>81</sub>	61.130 <sub>148</sub>	67.20 <sub>3</sub>	47.79 <sub>39</sub>	64.52 <sub>176</sub>
17.3	67.42 <sub>102</sub>	86.13 <sub>142</sub>	41.923 <sub>196</sub>	67.60 <sub>42</sub>	60.982 <sub>156</sub>	67.23 <sub>19</sub>	47.40 <sub>42</sub>	66.28 <sub>127</sub>
27.3	66.40 <sub>106</sub>	87.55 <sub>89</sub>	41.727 <sub>199</sub>	68.02 <sub>1</sub>	60.826 <sub>158</sub>	67.04 <sub>37</sub>	46.98 <sub>44</sub>	67.55 <sub>73</sub>
Nov. 6.3	65.34 <sub>108</sub>	88.44 <sub>31</sub>	41.528 <sub>192</sub>	68.03 <sub>39</sub>	60.668 <sub>151</sub>	66.67 <sub>56</sub>	46.54 <sub>43</sub>	68.28 <sub>18</sub>
16.2	64.26 <sub>105</sub>	88.75 <sub>28</sub>	41.336 <sub>180</sub>	67.64 <sub>79</sub>	60.517 <sub>137</sub>	66.11 <sub>74</sub>	46.11 <sub>43</sub>	68.46 <sub>41</sub>
26.2	63.21 <sub>101</sub>	88.47 <sub>87</sub>	41.156 <sub>161</sub>	66.85 <sub>118</sub>	60.380 <sub>118</sub>	65.37 <sub>89</sub>	45.68 <sub>40</sub>	68.05 <sub>97</sub>
Dez. 6.2	62.20 <sub>93</sub>	87.60 <sub>146</sub>	40.995 <sub>135</sub>	65.67 <sub>155</sub>	60.262 <sub>95</sub>	64.48 <sub>103</sub>	45.28 <sub>37</sub>	67.08 <sub>153</sub>
16.2	61.27 <sub>83</sub>	86.14 <sub>200</sub>	40.860 <sub>107</sub>	64.12 <sub>186</sub>	60.167 <sub>67</sub>	63.45 <sub>114</sub>	44.91 <sub>32</sub>	65.55 <sub>205</sub>
26.1	60.44 <sub>69</sub>	84.14 <sub>248</sub>	40.753 <sub>75</sub>	62.26 <sub>213</sub>	60.100 <sub>39</sub>	62.31 <sub>122</sub>	44.59 <sub>27</sub>	63.50 <sub>249</sub>
36.1	59.75	81.66	40.678	60.13	60.061	61.09	44.32	61.01
Mittl. Ort	64.10	52.09	39.489	37.23	58.518	43.17	44.57	32.13
sec δ, tg δ	4.738	+4.631	1.154	+0.575	1.004	+0.086	2.148	+1.901



Mittlere Zeit Greenw.	804) $\Gamma$ Pegasi		805) $\gamma$ Pavonis		806) $\zeta$ Capricorni		808) $\beta$ Aquarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	21 <sup>h</sup> 18 <sup>m</sup>	+19° 28'	21 <sup>h</sup> 20 <sup>m</sup>	-65° 42'	21 <sup>h</sup> 22 <sup>m</sup>	-22° 44'	21 <sup>h</sup> 27 <sup>m</sup>	-5° 54'
Jan. I.I	30.499 <sub>42</sub>	36.35 <sub>182</sub>	2.01 <sub>13</sub>	63.82 <sub>242</sub>	15.038 <sub>22</sub>	45.35 <sub>22</sub>	29.254 <sub>27</sub>	35.65 <sub>66</sub>
II.I	30.457 <sub>9</sub>	34.53 <sub>191</sub>	1.88 <sub>4</sub>	61.40 <sub>269</sub>	15.016 <sub>11</sub>	45.13 <sub>36</sub>	29.227 <sub>2</sub>	36.31 <sub>60</sub>
2I.I	30.448 <sub>23</sub>	32.62 <sub>193</sub>	1.84 <sub>5</sub>	58.71 <sub>289</sub>	15.027 <sub>44</sub>	44.77 <sub>52</sub>	29.229 <sub>33</sub>	36.91 <sub>52</sub>
3I.0	30.471 <sub>57</sub>	30.69 <sub>186</sub>	1.89 <sub>12</sub>	55.82 <sub>300</sub>	15.071 <sub>78</sub>	44.25 <sub>66</sub>	29.262 <sub>62</sub>	37.43 <sub>38</sub>
Feb. 10.0	30.528 <sub>92</sub>	28.83 <sub>172</sub>	2.01 <sub>21</sub>	52.82 <sub>305</sub>	15.149 <sub>109</sub>	43.59 <sub>80</sub>	29.324 <sub>94</sub>	37.81 <sub>23</sub>
20.0	30.620 <sub>125</sub>	27.11 <sub>149</sub>	2.22 <sub>28</sub>	49.77 <sub>304</sub>	15.258 <sub>142</sub>	42.79 <sub>95</sub>	29.418 <sub>123</sub>	38.04 <sub>4</sub>
März 2.0	30.745 <sub>160</sub>	25.62 <sub>119</sub>	2.50 <sub>35</sub>	46.73 <sub>294</sub>	15.400 <sub>172</sub>	41.84 <sub>110</sub>	29.541 <sub>153</sub>	38.08 <sub>18</sub>
II.9	30.905 <sub>191</sub>	24.43 <sub>83</sub>	2.85 <sub>43</sub>	43.79 <sub>280</sub>	15.572 <sub>204</sub>	40.74 <sub>123</sub>	29.694 <sub>183</sub>	37.90 <sub>42</sub>
2I.9	31.096 <sub>222</sub>	23.60 <sub>4</sub>	3.28 <sub>48</sub>	40.99 <sub>259</sub>	15.776 <sub>232</sub>	39.51 <sub>136</sub>	29.877 <sub>212</sub>	37.48 <sub>67</sub>
3I.9	31.318 <sub>248</sub>	23.17 <sub>2</sub>	3.76 <sub>53</sub>	38.40 <sub>234</sub>	16.008 <sub>258</sub>	38.15 <sub>144</sub>	30.089 <sub>237</sub>	36.81 <sub>90</sub>
Apr. 10.8	31.566 <sub>272</sub>	23.15 <sub>42</sub>	4.29 <sub>57</sub>	36.06 <sub>203</sub>	16.266 <sub>282</sub>	36.71 <sub>153</sub>	30.326 <sub>260</sub>	35.91 <sub>113</sub>
20.8	31.838 <sub>290</sub>	23.57 <sub>85</sub>	4.86 <sub>61</sub>	34.03 <sub>168</sub>	16.548 <sub>301</sub>	35.18 <sub>155</sub>	30.586 <sub>280</sub>	34.78 <sub>133</sub>
30.8	32.128 <sub>301</sub>	24.42 <sub>124</sub>	5.47 <sub>64</sub>	32.35 <sub>130</sub>	16.849 <sub>315</sub>	33.63 <sub>155</sub>	30.866 <sub>293</sub>	33.45 <sub>149</sub>
Mai 10.8	32.429 <sub>305</sub>	25.66 <sub>160</sub>	6.11 <sub>64</sub>	31.05 <sub>88</sub>	17.164 <sub>322</sub>	32.08 <sub>150</sub>	31.159 <sub>300</sub>	31.96 <sub>162</sub>
20.7	32.734 <sub>303</sub>	27.26 <sub>190</sub>	6.75 <sub>63</sub>	30.17 <sub>45</sub>	17.486 <sub>323</sub>	30.58 <sub>141</sub>	31.459 <sub>302</sub>	30.34 <sub>169</sub>
30.7	33.037 <sub>293</sub>	29.16 <sub>214</sub>	7.38 <sub>62</sub>	29.72 <sub>0</sub>	17.809 <sub>315</sub>	29.17 <sub>128</sub>	31.761 <sub>294</sub>	28.65 <sub>171</sub>
Juni 9.7	33.330 <sub>275</sub>	31.30 <sub>233</sub>	8.00 <sub>58</sub>	29.72 <sub>45</sub>	18.124 <sub>300</sub>	27.89 <sub>111</sub>	32.055 <sub>281</sub>	26.94 <sub>168</sub>
19.7	33.605 <sub>247</sub>	33.63 <sub>245</sub>	8.58 <sub>54</sub>	30.17 <sub>89</sub>	18.424 <sub>277</sub>	26.78 <sub>90</sub>	32.336 <sub>258</sub>	25.26 <sub>162</sub>
29.6	33.852 <sub>217</sub>	36.08 <sub>250</sub>	9.12 <sub>47</sub>	31.06 <sub>129</sub>	18.701 <sub>247</sub>	25.88 <sub>68</sub>	32.594 <sub>231</sub>	23.64 <sub>149</sub>
Juli 9.6	34.069 <sub>178</sub>	38.58 <sub>249</sub>	9.59 <sub>40</sub>	32.35 <sub>167</sub>	18.948 <sub>209</sub>	25.20 <sub>45</sub>	32.825 <sub>196</sub>	22.15 <sub>134</sub>
19.6	34.247 <sub>137</sub>	41.07 <sub>242</sub>	9.99 <sub>30</sub>	34.02 <sub>198</sub>	19.157 <sub>168</sub>	24.75 <sub>20</sub>	33.021 <sub>156</sub>	20.81 <sub>117</sub>
29.5	34.384 <sub>93</sub>	43.49 <sub>230</sub>	10.29 <sub>22</sub>	36.00 <sub>224</sub>	19.325 <sub>121</sub>	24.55 <sub>4</sub>	33.177 <sub>114</sub>	19.64 <sub>96</sub>
Aug. 8.5	34.477 <sub>46</sub>	45.79 <sub>213</sub>	10.51 <sub>11</sub>	38.24 <sub>242</sub>	19.446 <sub>72</sub>	24.59 <sub>26</sub>	33.291 <sub>69</sub>	18.68 <sub>75</sub>
18.5	34.523 <sub>1</sub>	47.92 <sub>193</sub>	10.62 <sub>0</sub>	40.66 <sub>251</sub>	19.518 <sub>25</sub>	24.85 <sub>45</sub>	33.360 <sub>25</sub>	17.93 <sub>54</sub>
28.5	34.524 <sub>41</sub>	49.85 <sub>169</sub>	10.62 <sub>9</sub>	43.17 <sub>251</sub>	19.543 <sub>22</sub>	25.30 <sub>61</sub>	33.385 <sub>19</sub>	17.39 <sub>34</sub>
Sept. 7.4	34.483 <sub>80</sub>	51.54 <sub>142</sub>	10.53 <sub>19</sub>	45.68 <sub>241</sub>	19.521 <sub>65</sub>	25.91 <sub>73</sub>	33.366 <sub>57</sub>	17.05 <sub>14</sub>
17.4	34.403 <sub>113</sub>	52.96 <sub>114</sub>	10.34 <sub>27</sub>	48.09 <sub>222</sub>	19.456 <sub>102</sub>	26.64 <sub>81</sub>	33.309 <sub>91</sub>	16.91 <sub>3</sub>
27.4	34.290 <sub>140</sub>	54.10 <sub>84</sub>	10.07 <sub>34</sub>	50.31 <sub>194</sub>	19.354 <sub>132</sub>	27.45 <sub>85</sub>	33.218 <sub>118</sub>	16.94 <sub>20</sub>
Okt. 7.4	34.150 <sub>158</sub>	54.94 <sub>53</sub>	9.73 <sub>40</sub>	52.25 <sub>157</sub>	19.222 <sub>152</sub>	28.30 <sub>83</sub>	33.100 <sub>138</sub>	17.14 <sub>32</sub>
17.3	33.992 <sub>170</sub>	55.47 <sub>22</sub>	9.33 <sub>43</sub>	53.82 <sub>115</sub>	19.070 <sub>165</sub>	29.13 <sub>78</sub>	32.962 <sub>149</sub>	17.46 <sub>43</sub>
27.3	33.822 <sub>172</sub>	55.69 <sub>11</sub>	8.90 <sub>45</sub>	54.97 <sub>66</sub>	18.905 <sub>168</sub>	29.91 <sub>70</sub>	32.813 <sub>152</sub>	17.89 <sub>52</sub>
Nov. 6.3	33.650 <sub>167</sub>	55.58 <sub>44</sub>	8.45 <sub>44</sub>	55.63 <sub>14</sub>	18.737 <sub>162</sub>	30.61 <sub>59</sub>	32.661 <sub>148</sub>	18.41 <sub>59</sub>
16.2	33.483 <sub>155</sub>	55.14 <sub>74</sub>	8.01 <sub>42</sub>	55.77 <sub>38</sub>	18.575 <sub>147</sub>	31.20 <sub>47</sub>	32.513 <sub>136</sub>	19.00 <sub>65</sub>
26.2	33.328 <sub>138</sub>	54.40 <sub>105</sub>	7.59 <sub>38</sub>	55.39 <sub>89</sub>	18.428 <sub>128</sub>	31.67 <sub>32</sub>	32.377 <sub>119</sub>	19.65 <sub>68</sub>
Dez. 6.2	33.190 <sub>116</sub>	53.35 <sub>131</sub>	7.21 <sub>31</sub>	54.50 <sub>138</sub>	18.300 <sub>102</sub>	31.99 <sub>18</sub>	32.258 <sub>96</sub>	20.33 <sub>71</sub>
16.2	33.074 <sub>89</sub>	52.04 <sub>156</sub>	6.90 <sub>25</sub>	53.12 <sub>183</sub>	18.198 <sub>72</sub>	32.17 <sub>3</sub>	32.162 <sub>72</sub>	21.04 <sub>72</sub>
26.1	32.985 <sub>60</sub>	50.48 <sub>175</sub>	6.65 <sub>18</sub>	51.29 <sub>220</sub>	18.126 <sub>41</sub>	32.20 <sub>12</sub>	32.090 <sub>44</sub>	21.76 <sub>69</sub>
36.1	32.925	48.73	6.47	49.09	18.085	32.08	32.046	22.45
Mittl. Ort sec $\delta$ , tg $\delta$	31.495 1.061	27.36 +0.354	5.75 2.431	57.00 -2.216	16.447 1.084	44.64 -0.419	30.395 1.005	38.44 -0.104

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	809) $\beta$ Cephei		810) $\nu$ Octantis		811) $\gamma$ Cygni		815) $\epsilon$ Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	21 <sup>h</sup> 27 <sup>m</sup>	+70° 13'	21 <sup>h</sup> 32 <sup>m</sup>	-77° 43'	21 <sup>h</sup> 33 <sup>m</sup>	+40° 3'	21 <sup>h</sup> 40 <sup>m</sup>	+9° 31'
Jan. 1.1	38.84	39.09	51.11	68.89	50.766	74.63	23.293	22.65
II.1	38.47	36.49	50.72	66.12	50.663	72.30	23.246	21.31
21.1	38.20	33.53	50.51	63.04	50.599	69.74	23.227	19.93
31.0	38.03	30.32	50.46	59.75	50.576	67.04	23.238	18.57
Feb. 10.0	37.97	26.98	50.57	56.33	50.597	64.32	23.280	17.30
20.0	38.03	23.65	50.86	52.87	50.664	61.69	23.352	16.16
März 2.0	38.21	20.44	51.30	49.46	50.776	59.24	23.457	15.23
11.9	38.50	17.50	51.89	46.17	50.934	57.09	23.594	14.56
21.9	38.90	14.93	52.60	43.07	51.136	55.32	23.763	14.18
31.9	39.39	12.83	53.44	40.23	51.379	54.00	23.962	14.15
Apr. 10.9	39.96	11.27	54.38	37.70	51.658	53.18	24.191	14.46
20.8	40.59	10.30	55.41	35.54	51.967	52.91	24.444	15.12
30.8	41.26	9.96	56.51	33.80	52.300	53.18	24.718	16.13
Mai 10.8	41.94	10.24	57.65	32.50	52.647	53.99	25.008	17.45
20.7	42.62	11.13	58.81	31.68	53.000	55.30	25.307	19.03
30.7	43.28	12.60	59.96	31.36	53.350	57.08	25.608	20.85
Juni 9.7	43.90	14.60	61.09	31.55	53.687	59.26	25.902	22.83
19.7	44.46	17.06	62.15	32.23	54.002	61.79	26.184	24.93
29.6	44.94	19.91	63.13	33.41	54.288	64.58	26.444	27.08
Juli 9.6	45.34	23.09	64.00	35.02	54.535	67.57	26.676	29.22
19.6	45.64	26.49	64.73	37.04	54.738	70.68	26.875	31.31
29.6	45.83	30.06	65.31	39.41	54.892	73.84	27.035	33.29
Aug. 8.5	45.92	33.70	65.70	42.04	54.994	76.97	27.153	35.13
18.5	45.90	37.33	65.92	44.85	55.043	80.00	27.227	36.78
28.5	45.78	40.88	65.94	47.75	55.039	82.88	27.257	38.23
Sept. 7.4	45.55	44.27	65.77	50.64	54.985	85.53	27.244	39.46
17.4	45.23	47.42	65.41	53.40	54.886	87.93	27.193	40.45
27.4	44.82	50.27	64.89	55.94	54.745	90.01	27.107	41.19
Okt. 7.4	44.34	52.75	64.22	58.15	54.571	91.72	26.994	41.68
17.3	43.80	54.81	63.44	59.93	54.372	93.05	26.860	41.93
27.3	43.22	56.38	62.56	61.23	54.155	93.95	26.713	41.95
Nov. 6.3	42.60	57.43	61.64	61.97	53.929	94.40	26.560	41.72
16.3	41.98	57.91	60.71	62.12	53.703	94.38	26.409	41.28
26.2	41.35	57.80	59.81	61.67	53.484	93.89	26.266	40.62
Dez. 6.2	40.76	57.10	58.98	60.64	53.280	92.94	26.138	39.76
16.2	40.20	55.81	58.24	59.05	53.096	91.54	26.027	38.72
26.1	39.69	53.97	57.63	56.95	52.940	89.73	25.940	37.54
36.1	39.26	51.62	57.15	54.42	52.814	87.57	25.877	36.24
Mittl. Ort sec <sup>2</sup> , tg <sup>2</sup>	40.40 2.955	20.94 +2.781	58.30 4.707	60.20 -4.599	51.663 1.307	61.17 +0.841	24.241 1.014	16.47 +0.168

Mittlere Zeit Greenw.	819) $\delta$ Capricorni		821) $\pi^2$ Cygni		822) $\gamma$ Gruis		823) $\iota 6$ Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	21 <sup>h</sup> 42 <sup>m</sup>	-16° 28'	21 <sup>h</sup> 43 <sup>m</sup>	+48° 57'	21 <sup>h</sup> 49 <sup>m</sup>	-37° 43'	21 <sup>h</sup> 49 <sup>m</sup>	+25° 33'
1923								
Jan. 1.1	46.362 <sub>39</sub>	39.24 <sub>13</sub>	55.958 <sub>152</sub>	24.95 <sub>238</sub>	14.591 <sub>62</sub>	45.54 <sub>94</sub>	32.628 <sub>76</sub>	54.18 <sub>187</sub>
11.1	46.323 <sub>8</sub>	39.37 <sub>1</sub>	55.806 <sub>107</sub>	22.57 <sub>269</sub>	14.529 <sub>25</sub>	44.60 <sub>119</sub>	32.552 <sub>47</sub>	52.31 <sub>201</sub>
21.1	46.315 <sub>21</sub>	39.38 <sub>14</sub>	55.699 <sub>60</sub>	19.88 <sub>287</sub>	14.504 <sub>12</sub>	43.41 <sub>140</sub>	32.505 <sub>15</sub>	50.30 <sub>209</sub>
31.1	46.336 <sub>53</sub>	39.24 <sub>29</sub>	55.639 <sub>7</sub>	17.01 <sub>296</sub>	14.516 <sub>51</sub>	42.01 <sub>160</sub>	32.490 <sub>20</sub>	48.21 <sub>209</sub>
Feb. 10.0	46.389 <sub>83</sub>	38.95 <sub>46</sub>	55.632 <sub>47</sub>	14.05 <sub>293</sub>	14.567 <sub>89</sub>	40.41 <sub>176</sub>	32.510 <sub>55</sub>	46.12 <sub>198</sub>
20.0	46.472 <sub>114</sub>	38.49 <sub>63</sub>	55.679 <sub>104</sub>	11.12 <sub>277</sub>	14.656 <sub>128</sub>	38.65 <sub>189</sub>	32.565 <sub>93</sub>	44.14 <sub>180</sub>
März 2.0	46.586 <sub>147</sub>	37.86 <sub>81</sub>	55.783 <sub>159</sub>	8.35 <sub>251</sub>	14.784 <sub>165</sub>	36.76 <sub>199</sub>	32.658 <sub>130</sub>	42.34 <sub>153</sub>
11.9	46.733 <sub>177</sub>	37.05 <sub>99</sub>	55.942 <sub>212</sub>	5.84 <sub>214</sub>	14.949 <sub>203</sub>	34.77 <sub>205</sub>	32.788 <sub>167</sub>	40.81 <sub>119</sub>
21.9	46.910 <sub>207</sub>	36.06 <sub>117</sub>	56.154 <sub>262</sub>	3.70 <sub>169</sub>	15.152 <sub>238</sub>	32.72 <sub>208</sub>	32.955 <sub>203</sub>	39.62 <sub>80</sub>
31.9	47.117 <sub>236</sub>	34.89 <sub>132</sub>	56.416 <sub>306</sub>	2.01 <sub>118</sub>	15.390 <sub>272</sub>	30.64 <sub>208</sub>	33.158 <sub>235</sub>	38.82 <sub>36</sub>
Apr. 10.9	47.353 <sub>262</sub>	33.57 <sub>146</sub>	56.722 <sub>342</sub>	0.83 <sub>62</sub>	15.662 <sub>303</sub>	28.56 <sub>202</sub>	33.393 <sub>265</sub>	38.46 <sub>9</sub>
20.8	47.615 <sub>283</sub>	32.11 <sub>156</sub>	57.064 <sub>372</sub>	0.21 <sub>4</sub>	15.965 <sub>328</sub>	26.54 <sub>192</sub>	33.658 <sub>288</sub>	38.55 <sub>55</sub>
30.8	47.898 <sub>300</sub>	30.55 <sub>163</sub>	57.436 <sub>390</sub>	0.17 <sub>53</sub>	16.293 <sub>349</sub>	24.62 <sub>178</sub>	33.946 <sub>306</sub>	39.10 <sub>99</sub>
Mai 10.8	48.198 <sub>311</sub>	28.92 <sub>164</sub>	57.826 <sub>397</sub>	0.70 <sub>108</sub>	16.642 <sub>362</sub>	22.84 <sub>160</sub>	34.252 <sub>315</sub>	40.09 <sub>140</sub>
20.8	48.509 <sub>314</sub>	27.28 <sub>161</sub>	58.223 <sub>394</sub>	1.78 <sub>160</sub>	17.004 <sub>369</sub>	21.24 <sub>136</sub>	34.567 <sub>318</sub>	41.49 <sub>177</sub>
30.7	48.823 <sub>311</sub>	25.67 <sub>154</sub>	58.617 <sub>379</sub>	3.38 <sub>207</sub>	17.373 <sub>365</sub>	19.88 <sub>109</sub>	34.885 <sub>311</sub>	43.26 <sub>207</sub>
Juni 9.7	49.134 <sub>298</sub>	24.13 <sub>142</sub>	58.996 <sub>356</sub>	5.45 <sub>247</sub>	17.738 <sub>353</sub>	18.79 <sub>80</sub>	35.196 <sub>296</sub>	45.33 <sub>233</sub>
19.7	49.432 <sub>279</sub>	22.71 <sub>126</sub>	59.352 <sub>321</sub>	7.92 <sub>280</sub>	18.091 <sub>331</sub>	17.99 <sub>48</sub>	35.492 <sub>273</sub>	47.66 <sub>252</sub>
29.6	49.711 <sub>252</sub>	21.45 <sub>106</sub>	59.673 <sub>279</sub>	10.72 <sub>306</sub>	18.422 <sub>302</sub>	17.51 <sub>14</sub>	35.765 <sub>244</sub>	50.18 <sub>263</sub>
Juli 9.6	49.963 <sub>219</sub>	20.39 <sub>85</sub>	59.952 <sub>230</sub>	13.78 <sub>324</sub>	18.724 <sub>263</sub>	17.37 <sub>18</sub>	36.009 <sub>208</sub>	52.81 <sub>268</sub>
19.6	50.182 <sub>179</sub>	19.54 <sub>62</sub>	60.182 <sub>175</sub>	17.02 <sub>334</sub>	18.987 <sub>218</sub>	17.55 <sub>50</sub>	36.217 <sub>167</sub>	55.49 <sub>268</sub>
29.6	50.361 <sub>136</sub>	18.92 <sub>39</sub>	60.357 <sub>115</sub>	20.36 <sub>337</sub>	19.205 <sub>167</sub>	18.05 <sub>80</sub>	36.384 <sub>122</sub>	58.17 <sub>260</sub>
Aug. 8.5	50.497 <sub>90</sub>	18.53 <sub>14</sub>	60.472 <sub>57</sub>	23.73 <sub>332</sub>	19.372 <sub>114</sub>	18.85 <sub>106</sub>	36.506 <sub>76</sub>	60.77 <sub>247</sub>
18.5	50.587 <sub>44</sub>	18.39 <sub>7</sub>	60.529 <sub>3</sub>	27.05 <sub>320</sub>	19.486 <sub>57</sub>	19.91 <sub>128</sub>	36.582 <sub>30</sub>	63.24 <sub>231</sub>
28.5	50.631 <sub>2</sub>	18.46 <sub>26</sub>	60.526 <sub>60</sub>	30.25 <sub>301</sub>	19.543 <sub>3</sub>	21.19 <sub>143</sub>	36.612 <sub>16</sub>	65.55 <sub>208</sub>
Sept. 7.5	50.629 <sub>43</sub>	18.72 <sub>45</sub>	60.466 <sub>113</sub>	33.26 <sub>277</sub>	19.546 <sub>49</sub>	22.62 <sub>152</sub>	36.596 <sub>56</sub>	67.63 <sub>153</sub>
17.4	50.586 <sub>81</sub>	19.17 <sub>57</sub>	60.353 <sub>160</sub>	36.03 <sub>246</sub>	19.497 <sub>95</sub>	24.14 <sub>155</sub>	36.540 <sub>93</sub>	69.46 <sub>155</sub>
27.4	50.505 <sub>110</sub>	19.74 <sub>66</sub>	60.193 <sub>200</sub>	38.49 <sub>210</sub>	19.402 <sub>135</sub>	25.69 <sub>151</sub>	36.447 <sub>124</sub>	71.01 <sub>124</sub>
Okt. 7.4	50.395 <sub>134</sub>	20.40 <sub>72</sub>	59.993 <sub>233</sub>	40.59 <sub>170</sub>	19.267 <sub>165</sub>	27.20 <sub>139</sub>	36.323 <sub>147</sub>	72.25 <sub>91</sub>
17.3	50.261 <sub>147</sub>	21.12 <sub>74</sub>	59.760 <sub>255</sub>	42.29 <sub>126</sub>	19.102 <sub>186</sub>	28.59 <sub>123</sub>	36.176 <sub>163</sub>	73.16 <sub>57</sub>
27.3	50.114 <sub>154</sub>	21.86 <sub>72</sub>	59.505 <sub>270</sub>	43.55 <sub>77</sub>	18.916 <sub>195</sub>	29.82 <sub>100</sub>	36.013 <sub>172</sub>	73.73 <sub>22</sub>
Nov. 6.3	49.960 <sub>152</sub>	22.58 <sub>68</sub>	59.235 <sub>274</sub>	44.32 <sub>27</sub>	18.721 <sub>196</sub>	30.82 <sub>74</sub>	35.841 <sub>173</sub>	73.95 <sub>15</sub>
16.3	49.808 <sub>142</sub>	23.26 <sub>61</sub>	58.961 <sub>271</sub>	44.59 <sub>26</sub>	18.525 <sub>187</sub>	31.56 <sub>44</sub>	35.668 <sub>168</sub>	73.80 <sub>51</sub>
26.2	49.666 <sub>127</sub>	23.87 <sub>53</sub>	58.690 <sub>259</sub>	44.33 <sub>77</sub>	18.338 <sub>169</sub>	32.00 <sub>14</sub>	35.500 <sub>156</sub>	73.29 <sub>86</sub>
Dez. 6.2	49.539 <sub>105</sub>	24.40 <sub>44</sub>	58.431 <sub>238</sub>	43.56 <sub>128</sub>	18.169 <sub>145</sub>	32.14 <sub>17</sub>	35.344 <sub>140</sub>	72.43 <sub>119</sub>
16.2	49.434 <sub>82</sub>	24.84 <sub>34</sub>	58.193 <sub>211</sub>	42.28 <sub>176</sub>	18.024 <sub>115</sub>	31.97 <sub>47</sub>	35.204 <sub>118</sub>	71.24 <sub>149</sub>
26.2	49.352 <sub>54</sub>	25.18 <sub>22</sub>	57.982 <sub>177</sub>	40.52 <sub>217</sub>	17.909 <sub>81</sub>	31.50 <sub>76</sub>	35.086 <sub>94</sub>	69.75 <sub>174</sub>
36.1	49.298	25.40	57.805	38.35	17.828	30.74	34.992	68.01
Mittl. Ort	47.584	38.76	56.817	9.66	16.260	39.98	33.444	44.08
sec $\delta$ , tg $\delta$	1.043	-0.296	1.523	+1.148	1.264	-0.774	1.109	+0.478



Mittlere Zeit Greenw.	827) $\alpha$ Aquarii		828) $\iota$ Aquarii		830) $\zeta$ Cephei		829) $\alpha$ Gruis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$22^{\text{h}} 1^{\text{m}}$	$-0^{\circ} 41'$	$22^{\text{h}} 2^{\text{m}}$	$-14^{\circ} 14'$	$22^{\text{h}} 2^{\text{m}}$	$+62^{\circ} 24'$	$22^{\text{h}} 3^{\text{m}}$	$-47^{\circ} 19'$
Jan. 1.1	48.840	37.61	15.730	38.77	39.22	52.38	21.292	73.66
11.1	48.786	38.47	15.677	39.01	38.93	50.11	21.191	72.34
21.1	48.756	39.29	15.650	39.13	38.70	47.45	21.133	70.70
31.1	48.754	40.04	15.651	39.11	38.54	44.50	21.118	68.80
Feb. 10.0	48.779	40.68	15.682	38.93	38.45	41.36	21.149	66.67
20.0	48.835	41.17	15.743	38.57	38.45	38.16	21.225	64.37
März 2.0	48.921	41.46	15.835	38.03	38.52	35.03	21.346	61.95
12.0	49.040	41.53	15.959	37.30	38.69	32.10	21.512	59.45
21.9	49.190	41.34	16.115	36.36	38.93	29.47	21.723	56.91
31.9	49.372	40.89	16.303	35.23	39.25	27.25	21.977	54.41
Apr. 10.9	49.584	40.15	16.522	33.92	39.63	25.53	22.270	51.97
20.8	49.824	39.15	16.769	32.45	40.07	24.35	22.601	49.65
30.8	50.088	37.89	17.040	30.85	40.56	23.77	22.964	47.51
Mai 10.8	50.371	36.42	17.331	29.16	41.07	23.79	23.353	45.59
20.8	50.667	34.76	17.635	27.43	41.60	24.41	23.759	43.93
30.7	50.969	32.98	17.947	25.71	42.13	25.61	24.175	42.59
Juni 9.7	51.269	31.11	18.258	24.03	42.64	27.34	24.591	41.59
19.7	51.560	29.22	18.560	22.45	43.11	29.56	24.995	40.96
29.7	51.834	27.35	18.845	21.01	43.55	32.19	25.379	40.73
Juli 9.6	52.083	25.56	19.106	19.76	43.92	35.17	25.730	40.88
19.6	52.302	23.89	19.336	18.71	44.24	38.43	26.041	41.42
29.6	52.484	22.37	19.528	17.90	44.48	41.88	26.303	42.34
Aug. 8.5	52.626	21.05	19.680	17.33	44.64	45.44	26.508	43.58
18.5	52.726	19.93	19.787	17.00	44.73	49.04	26.653	45.10
28.5	52.781	19.03	19.849	16.91	44.73	52.59	26.734	46.86
Sept. 7.5	52.794	18.35	19.866	17.03	44.66	56.03	26.751	48.77
17.4	52.767	17.89	19.841	17.35	44.51	59.28	26.707	50.76
27.4	52.704	17.65	19.778	17.82	44.30	62.26	26.607	52.75
Okt. 7.4	52.612	17.60	19.684	18.41	44.03	64.93	26.459	54.66
17.4	52.496	17.73	19.564	19.10	43.70	67.20	26.272	56.39
27.3	52.365	18.02	19.428	19.82	43.34	69.03	26.056	57.89
Nov. 6.3	52.224	18.45	19.283	20.56	42.95	70.38	25.824	59.09
16.3	52.083	19.00	19.137	21.28	42.53	71.18	25.586	59.94
26.2	51.946	19.65	18.995	21.95	42.12	71.42	25.354	60.40
Dez. 6.2	51.821	20.38	18.866	22.57	41.70	71.09	25.139	60.46
16.2	51.711	21.19	18.754	23.10	41.31	70.17	24.948	60.12
26.2	51.619	22.04	18.663	23.54	40.95	68.70	24.789	59.38
36.1	51.551	22.90	18.595	23.86	40.62	66.71	24.666	58.27
Mittl. Ort sec $\delta$ , tg $\delta$	49.781 1.000	40.36 -0.012	16.836 1.032	37.82 -0.254	40.02 2.159	34.57 +1.914	23.256 1.475	65.27 -1.085

Mittlere Zeit Greenw.	834) $\theta$ Pegasi		835) $\pi$ Pegasi		836) $\zeta$ Cephei		837) $24$ Cephei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$22^{\text{h}} 6^{\text{m}}$	$+5^{\circ} 49'$	$22^{\text{h}} 6^{\text{m}}$	$+32^{\circ} 47'$	$22^{\text{h}} 8^{\text{m}}$	$+57^{\circ} 49'$	$22^{\text{h}} 8^{\text{m}}$	$+71^{\circ} 57'$
Jan. I.I	18.091 <sub>62</sub>	10.78 <sub>111</sub>	33.254 <sub>106</sub>	71.19 <sub>193</sub>	10.121 <sub>242</sub>	33.63 <sub>221</sub>	18.92 <sub>50</sub>	61.22 <sub>214</sub>
II.I	18.029 <sub>37</sub>	9.67 <sub>112</sub>	33.148 <sub>76</sub>	69.26 <sub>216</sub>	9.879 <sub>192</sub>	31.42 <sub>259</sub>	18.42 <sub>41</sub>	59.08 <sub>259</sub>
21.I	17.992 <sub>10</sub>	8.55 <sub>110</sub>	33.072 <sub>44</sub>	67.10 <sub>229</sub>	9.687 <sub>137</sub>	28.83 <sub>287</sub>	18.01 <sub>30</sub>	56.49 <sub>294</sub>
31.I	17.982 <sub>18</sub>	7.45 <sub>101</sub>	33.028 <sub>7</sub>	64.81 <sub>234</sub>	9.550 <sub>73</sub>	25.96 <sub>305</sub>	17.71 <sub>19</sub>	53.55 <sub>318</sub>
Feb. 10.0	18.000 <sub>49</sub>	6.44 <sub>87</sub>	33.021 <sub>32</sub>	62.47 <sub>229</sub>	9.477 <sub>4</sub>	22.91 <sub>310</sub>	17.52 <sub>6</sub>	50.37 <sub>328</sub>
20.0	18.049 <sub>80</sub>	5.57 <sub>68</sub>	33.053 <sub>72</sub>	60.18 <sub>214</sub>	9.473 <sub>67</sub>	19.81 <sub>303</sub>	17.46 <sub>7</sub>	47.09 <sub>327</sub>
März 2.0	18.129 <sub>113</sub>	4.89 <sub>45</sub>	33.125 <sub>114</sub>	58.04 <sub>190</sub>	9.540 <sub>138</sub>	16.78 <sub>284</sub>	17.53 <sub>19</sub>	43.82 <sub>312</sub>
12.0	18.242 <sub>145</sub>	4.44 <sub>18</sub>	33.239 <sub>157</sub>	56.14 <sub>158</sub>	9.678 <sub>210</sub>	13.94 <sub>254</sub>	17.72 <sub>32</sub>	40.70 <sub>285</sub>
21.9	18.387 <sub>179</sub>	4.26 <sub>13</sub>	33.396 <sub>197</sub>	54.56 <sub>118</sub>	9.888 <sub>276</sub>	11.40 <sub>212</sub>	18.04 <sub>44</sub>	37.85 <sub>247</sub>
31.9	18.566 <sub>209</sub>	4.39 <sub>45</sub>	33.593 <sub>234</sub>	53.38 <sub>74</sub>	10.164 <sub>335</sub>	9.28 <sub>165</sub>	18.48 <sub>54</sub>	35.38 <sub>200</sub>
Apr. 10.9	18.775 <sub>239</sub>	4.84 <sub>77</sub>	33.827 <sub>269</sub>	52.64 <sub>26</sub>	10.499 <sub>386</sub>	7.63 <sub>111</sub>	19.02 <sub>62</sub>	33.38 <sub>146</sub>
20.8	19.014 <sub>263</sub>	5.61 <sub>107</sub>	34.096 <sub>296</sub>	52.38 <sub>23</sub>	10.885 <sub>427</sub>	6.52 <sub>52</sub>	19.64 <sub>68</sub>	31.92 <sub>88</sub>
30.8	19.277 <sub>282</sub>	6.68 <sub>135</sub>	34.392 <sub>317</sub>	52.61 <sub>71</sub>	11.312 <sub>455</sub>	6.00 <sub>6</sub>	20.32 <sub>73</sub>	31.04 <sub>26</sub>
Mai 10.8	19.559 <sub>296</sub>	8.03 <sub>159</sub>	34.709 <sub>331</sub>	53.32 <sub>119</sub>	11.767 <sub>469</sub>	6.06 <sub>66</sub>	21.05 <sub>75</sub>	30.78 <sub>34</sub>
20.8	19.855 <sub>302</sub>	9.62 <sub>178</sub>	35.040 <sub>334</sub>	54.51 <sub>160</sub>	12.236 <sub>471</sub>	6.72 <sub>122</sub>	21.80 <sub>74</sub>	31.12 <sub>94</sub>
30.7	20.157 <sub>301</sub>	11.40 <sub>194</sub>	35.374 <sub>331</sub>	56.11 <sub>198</sub>	12.707 <sub>459</sub>	7.94 <sub>174</sub>	22.54 <sub>72</sub>	32.06 <sub>151</sub>
Juni 9.7	20.458 <sub>292</sub>	13.34 <sub>201</sub>	35.705 <sub>316</sub>	58.09 <sub>230</sub>	13.166 <sub>435</sub>	9.68 <sub>220</sub>	23.26 <sub>67</sub>	33.57 <sub>202</sub>
19.7	20.750 <sub>274</sub>	15.35 <sub>205</sub>	36.021 <sub>295</sub>	60.39 <sub>255</sub>	13.601 <sub>397</sub>	11.88 <sub>262</sub>	23.93 <sub>60</sub>	35.59 <sub>248</sub>
29.7	21.024 <sub>251</sub>	17.40 <sub>203</sub>	36.316 <sub>265</sub>	62.94 <sub>274</sub>	13.998 <sub>351</sub>	14.50 <sub>295</sub>	24.53 <sub>53</sub>	38.07 <sub>287</sub>
Juli 9.6	21.275 <sub>220</sub>	19.43 <sub>196</sub>	36.581 <sub>229</sub>	65.68 <sub>285</sub>	14.349 <sub>295</sub>	17.45 <sub>321</sub>	25.06 <sub>43</sub>	40.94 <sub>319</sub>
19.6	21.495 <sub>184</sub>	21.39 <sub>184</sub>	36.810 <sub>187</sub>	68.53 <sub>290</sub>	14.644 <sub>232</sub>	20.66 <sub>339</sub>	25.49 <sub>33</sub>	44.13 <sub>342</sub>
29.6	21.679 <sub>143</sub>	23.23 <sub>168</sub>	36.997 <sub>141</sub>	71.43 <sub>288</sub>	14.876 <sub>165</sub>	24.05 <sub>350</sub>	25.82 <sub>22</sub>	47.55 <sub>360</sub>
Aug. 8.5	21.822 <sub>102</sub>	24.91 <sub>150</sub>	37.138 <sub>93</sub>	74.31 <sub>279</sub>	15.041 <sub>96</sub>	27.55 <sub>353</sub>	26.04 <sub>11</sub>	51.15 <sub>366</sub>
18.5	21.924 <sub>57</sub>	26.41 <sub>128</sub>	37.231 <sub>45</sub>	77.10 <sub>266</sub>	15.137 <sub>24</sub>	31.08 <sub>347</sub>	26.15 <sub>1</sub>	54.81 <sub>368</sub>
28.5	21.981 <sub>16</sub>	27.69 <sub>107</sub>	37.276 <sub>3</sub>	79.76 <sub>247</sub>	15.161 <sub>43</sub>	34.55 <sub>336</sub>	26.14 <sub>12</sub>	58.49 <sub>360</sub>
Sept. 7.5	21.997 <sub>25</sub>	28.76 <sub>83</sub>	37.273 <sub>47</sub>	82.23 <sub>224</sub>	15.118 <sub>109</sub>	37.91 <sub>316</sub>	26.02 <sub>23</sub>	62.09 <sub>345</sub>
17.4	21.972 <sub>60</sub>	29.59 <sub>60</sub>	37.226 <sub>87</sub>	84.47 <sub>195</sub>	15.009 <sub>169</sub>	41.07 <sub>290</sub>	25.79 <sub>33</sub>	65.54 <sub>322</sub>
27.4	21.912 <sub>90</sub>	30.19 <sub>37</sub>	37.139 <sub>120</sub>	86.42 <sub>165</sub>	14.840 <sub>221</sub>	43.97 <sub>258</sub>	25.46 <sub>41</sub>	68.76 <sub>292</sub>
Okt. 7.4	21.822 <sub>114</sub>	30.56 <sub>15</sub>	37.019 <sub>148</sub>	88.07 <sub>129</sub>	14.619 <sub>265</sub>	46.55 <sub>220</sub>	25.05 <sub>50</sub>	71.68 <sub>256</sub>
17.4	21.708 <sub>130</sub>	30.71 <sub>5</sub>	36.871 <sub>168</sub>	89.36 <sub>94</sub>	14.354 <sub>301</sub>	48.75 <sub>177</sub>	24.55 <sub>56</sub>	74.24 <sub>213</sub>
27.3	21.578 <sub>139</sub>	30.66 <sub>26</sub>	36.703 <sub>181</sub>	90.30 <sub>54</sub>	14.053 <sub>327</sub>	50.52 <sub>128</sub>	23.99 <sub>62</sub>	76.37 <sub>165</sub>
Nov. 6.3	21.439 <sub>142</sub>	30.40 <sub>43</sub>	36.522 <sub>187</sub>	90.84 <sub>14</sub>	13.726 <sub>343</sub>	51.80 <sub>77</sub>	23.37 <sub>64</sub>	78.02 <sub>110</sub>
16.3	21.297 <sub>138</sub>	29.97 <sub>61</sub>	36.335 <sub>185</sub>	90.98 <sub>28</sub>	13.383 <sub>348</sub>	52.57 <sub>22</sub>	22.73 <sub>67</sub>	79.12 <sub>53</sub>
26.2	21.159 <sub>129</sub>	29.36 <sub>76</sub>	36.150 <sub>178</sub>	90.70 <sub>69</sub>	13.035 <sub>344</sub>	52.79 <sub>34</sub>	22.06 <sub>66</sub>	79.65 <sub>7</sub>
Dez. 6.2	21.030 <sub>114</sub>	28.60 <sub>89</sub>	35.972 <sub>164</sub>	90.01 <sub>108</sub>	12.691 <sub>329</sub>	52.45 <sub>91</sub>	21.40 <sub>65</sub>	79.58 <sub>69</sub>
16.2	20.916 <sub>96</sub>	27.71 <sub>101</sub>	35.808 <sub>146</sub>	88.93 <sub>145</sub>	12.362 <sub>304</sub>	51.54 <sub>144</sub>	20.75 <sub>61</sub>	78.89 <sub>127</sub>
26.2	20.820 <sub>75</sub>	26.70 <sub>108</sub>	35.662 <sub>123</sub>	87.48 <sub>177</sub>	12.058 <sub>270</sub>	50.10 <sub>194</sub>	20.14 <sub>55</sub>	77.62 <sub>183</sub>
36.1	20.745	25.62	35.539	85.71	11.788	48.16	19.59	75.79
Mittl. Ort sec $\delta$ , tg $\delta$	18.947 1.005	6.36 +0.102	33.943 1.190	59.45 +0.645	10.809 1.878	16.52 +1.589	19.84 3.230	42.09 +3.071

Mittlere Zeit Greenw.	840) $\delta$ Aquarii		841) $\alpha$ Tucanae		842) $\gamma$ Aquarii		844) $\zeta$ Lacertae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	22 <sup>h</sup> 12 <sup>m</sup>	-8 <sup>o</sup> 9'	22 <sup>h</sup> 13 <sup>m</sup>	-6 <sup>o</sup> 38'	22 <sup>h</sup> 17 <sup>m</sup>	-1 <sup>o</sup> 46'	22 <sup>h</sup> 20 <sup>m</sup>	+51 <sup>o</sup> 50'
Jan. 1.1	45.340 <sub>60</sub>	61.96 <sub>53</sub>	II.64 <sub>19</sub>	50.07 <sub>185</sub>	39.908 <sub>65</sub>	31.59 <sub>78</sub>	31.181 <sub>203</sub>	50.03 <sub>206</sub>
11.1	45.280 <sub>36</sub>	62.49 <sub>43</sub>	II.45 <sub>12</sub>	48.22 <sub>221</sub>	39.843 <sub>42</sub>	32.37 <sub>74</sub>	30.978 <sub>165</sub>	47.97 <sub>243</sub>
21.1	45.244 <sub>10</sub>	62.92 <sub>32</sub>	II.33 <sub>7</sub>	46.01 <sub>253</sub>	39.801 <sub>16</sub>	33.11 <sub>67</sub>	30.813 <sub>119</sub>	45.54 <sub>271</sub>
31.1	45.234 <sub>18</sub>	63.24 <sub>17</sub>	II.26 <sub>0</sub>	43.48 <sub>276</sub>	39.785 <sub>11</sub>	33.78 <sub>55</sub>	30.694 <sub>68</sub>	42.83 <sub>288</sub>
Feb. 10.0	45.252 <sub>48</sub>	63.41 <sub>1</sub>	II.26 <sub>7</sub>	40.72 <sub>294</sub>	39.796 <sub>40</sub>	34.33 <sub>39</sub>	30.626 <sub>11</sub>	39.95 <sub>293</sub>
20.0	45.300 <sub>78</sub>	63.42 <sub>18</sub>	II.33 <sub>13</sub>	37.78 <sub>304</sub>	39.836 <sub>71</sub>	34.72 <sub>21</sub>	30.615 <sub>48</sub>	37.02 <sub>287</sub>
März 2.0	45.378 <sub>111</sub>	63.24 <sub>39</sub>	II.46 <sub>19</sub>	34.74 <sub>308</sub>	39.907 <sub>103</sub>	34.93 <sub>2</sub>	30.663 <sub>109</sub>	34.15 <sub>269</sub>
12.0	45.489 <sub>142</sub>	62.85 <sub>62</sub>	II.65 <sub>25</sub>	31.66 <sub>305</sub>	40.010 <sub>135</sub>	34.91 <sub>26</sub>	30.772 <sub>171</sub>	31.46 <sub>240</sub>
21.9	45.631 <sub>176</sub>	62.23 <sub>85</sub>	II.90 <sub>32</sub>	28.61 <sub>296</sub>	40.145 <sub>169</sub>	34.65 <sub>53</sub>	30.943 <sub>229</sub>	29.06 <sub>201</sub>
31.9	45.807 <sub>206</sub>	61.38 <sub>108</sub>	12.22 <sub>37</sub>	25.65 <sub>281</sub>	40.314 <sub>201</sub>	34.12 <sub>79</sub>	31.172 <sub>283</sub>	27.05 <sub>156</sub>
Apr. 10.9	46.013 <sub>236</sub>	60.30 <sub>129</sub>	12.59 <sub>42</sub>	22.84 <sub>259</sub>	40.515 <sub>230</sub>	33.33 <sub>105</sub>	31.455 <sub>330</sub>	25.49 <sub>104</sub>
20.8	46.249 <sub>261</sub>	59.01 <sub>148</sub>	13.01 <sub>47</sub>	20.25 <sub>233</sub>	40.745 <sub>257</sub>	32.28 <sub>130</sub>	31.785 <sub>369</sub>	24.45 <sub>48</sub>
30.8	46.510 <sub>282</sub>	57.53 <sub>162</sub>	13.48 <sub>50</sub>	17.92 <sub>201</sub>	41.002 <sub>278</sub>	30.98 <sub>151</sub>	32.154 <sub>398</sub>	23.97 <sub>8</sub>
Mai 10.8	46.792 <sub>298</sub>	55.91 <sub>173</sub>	13.98 <sub>52</sub>	15.91 <sub>164</sub>	41.280 <sub>294</sub>	29.47 <sub>167</sub>	32.552 <sub>415</sub>	24.05 <sub>65</sub>
20.8	47.090 <sub>305</sub>	54.18 <sub>179</sub>	14.50 <sub>55</sub>	14.27 <sub>123</sub>	41.574 <sub>302</sub>	27.80 <sub>181</sub>	32.967 <sub>422</sub>	24.70 <sub>119</sub>
30.7	47.395 <sub>306</sub>	52.39 <sub>180</sub>	15.05 <sub>54</sub>	13.04 <sub>80</sub>	41.876 <sub>303</sub>	25.99 <sub>187</sub>	33.389 <sub>415</sub>	25.89 <sub>169</sub>
Juni 9.7	47.701 <sub>299</sub>	50.59 <sub>176</sub>	15.59 <sub>53</sub>	12.24 <sub>34</sub>	42.179 <sub>296</sub>	24.12 <sub>190</sub>	33.804 <sub>398</sub>	27.58 <sub>214</sub>
19.7	48.000 <sub>284</sub>	48.83 <sub>167</sub>	16.12 <sub>50</sub>	11.90 <sub>12</sub>	42.475 <sub>282</sub>	22.22 <sub>186</sub>	34.202 <sub>370</sub>	29.72 <sub>253</sub>
29.7	48.284 <sub>261</sub>	47.16 <sub>154</sub>	16.62 <sub>47</sub>	12.02 <sub>58</sub>	42.757 <sub>259</sub>	20.36 <sub>178</sub>	34.572 <sub>332</sub>	32.25 <sub>285</sub>
Juli 9.6	48.545 <sub>232</sub>	45.62 <sub>136</sub>	17.09 <sub>41</sub>	12.60 <sub>102</sub>	43.016 <sub>231</sub>	18.58 <sub>166</sub>	34.904 <sub>285</sub>	35.10 <sub>310</sub>
19.6	48.777 <sub>196</sub>	44.26 <sub>117</sub>	17.50 <sub>35</sub>	13.62 <sub>144</sub>	43.247 <sub>196</sub>	16.92 <sub>149</sub>	35.189 <sub>233</sub>	38.20 <sub>328</sub>
29.6	48.973 <sub>156</sub>	43.09 <sub>94</sub>	17.85 <sub>28</sub>	15.06 <sub>180</sub>	43.443 <sub>157</sub>	15.43 <sub>130</sub>	35.422 <sub>175</sub>	41.48 <sub>336</sub>
Aug. 8.5	49.129 <sub>113</sub>	42.15 <sub>71</sub>	18.13 <sub>20</sub>	16.86 <sub>209</sub>	43.600 <sub>115</sub>	14.13 <sub>109</sub>	35.597 <sub>114</sub>	44.84 <sub>340</sub>
18.5	49.242 <sub>70</sub>	41.44 <sub>47</sub>	18.33 <sub>11</sub>	18.95 <sub>232</sub>	43.715 <sub>72</sub>	13.04 <sub>86</sub>	35.711 <sub>53</sub>	48.24 <sub>334</sub>
28.5	49.312 <sub>26</sub>	40.97 <sub>25</sub>	18.44 <sub>2</sub>	21.27 <sub>247</sub>	43.787 <sub>29</sub>	12.18 <sub>63</sub>	35.764 <sub>8</sub>	51.58 <sub>322</sub>
Sept. 7.5	49.338 <sub>15</sub>	40.72 <sub>3</sub>	18.46 <sub>5</sub>	23.74 <sub>251</sub>	43.816 <sub>12</sub>	11.55 <sub>41</sub>	35.756 <sub>65</sub>	54.80 <sub>303</sub>
17.4	49.323 <sub>52</sub>	40.69 <sub>16</sub>	18.41 <sub>14</sub>	26.25 <sub>246</sub>	43.804 <sub>48</sub>	11.14 <sub>20</sub>	35.691 <sub>118</sub>	57.83 <sub>279</sub>
27.4	49.271 <sub>84</sub>	40.85 <sub>32</sub>	18.27 <sub>21</sub>	28.71 <sub>231</sub>	43.756 <sub>79</sub>	10.94 <sub>1</sub>	35.573 <sub>105</sub>	60.62 <sub>248</sub>
Okt. 7.4	49.187 <sub>108</sub>	41.17 <sub>45</sub>	18.06 <sub>26</sub>	31.02 <sub>207</sub>	43.677 <sub>104</sub>	10.95 <sub>17</sub>	35.408 <sub>204</sub>	63.10 <sub>211</sub>
17.4	49.079 <sub>127</sub>	41.62 <sub>55</sub>	17.80 <sub>31</sub>	33.09 <sub>174</sub>	43.573 <sub>122</sub>	11.12 <sub>33</sub>	35.204 <sub>237</sub>	65.21 <sub>170</sub>
27.3	48.952 <sub>137</sub>	42.17 <sub>62</sub>	17.49 <sub>34</sub>	34.83 <sub>134</sub>	43.451 <sub>133</sub>	11.45 <sub>45</sub>	34.967 <sub>260</sub>	66.91 <sub>125</sub>
Nov. 6.3	48.815 <sub>139</sub>	42.79 <sub>67</sub>	17.15 <sub>36</sub>	36.17 <sub>88</sub>	43.318 <sub>137</sub>	11.90 <sub>56</sub>	34.707 <sub>276</sub>	68.16 <sub>76</sub>
16.3	48.676 <sub>137</sub>	43.46 <sub>68</sub>	16.79 <sub>35</sub>	37.05 <sub>39</sub>	43.181 <sub>134</sub>	12.46 <sub>66</sub>	34.431 <sub>282</sub>	68.92 <sub>23</sub>
26.2	48.539 <sub>127</sub>	44.14 <sub>69</sub>	16.44 <sub>34</sub>	37.44 <sub>12</sub>	43.047 <sub>127</sub>	13.12 <sub>72</sub>	34.149 <sub>280</sub>	69.15 <sub>29</sub>
Dez. 6.2	48.412 <sub>112</sub>	44.83 <sub>67</sub>	16.10 <sub>30</sub>	37.32 <sub>64</sub>	42.920 <sub>114</sub>	13.84 <sub>77</sub>	33.869 <sub>270</sub>	68.86 <sub>83</sub>
16.2	48.300 <sub>95</sub>	45.50 <sub>64</sub>	15.80 <sub>27</sub>	36.68 <sub>113</sub>	42.806 <sub>97</sub>	14.61 <sub>80</sub>	33.599 <sub>253</sub>	68.03 <sub>134</sub>
26.2	48.205 <sub>74</sub>	46.14 <sub>57</sub>	15.53 <sub>21</sub>	35.55 <sub>158</sub>	42.709 <sub>78</sub>	15.41 <sub>80</sub>	33.346 <sub>223</sub>	66.69 <sub>181</sub>
36.1	48.131	46.71	15.32	33.97	42.631	16.21	33.123	64.88
Mittl. Ort sec $\delta$ , tg $\delta$	46.316 1.010	62.16 -0.144	14.42 2.040	38.92 -1.778	40.785 1.000	33.39 -0.031	31.728 1.619	34.00 +1.273



Mittlere Zeit Greenw.	848) 7 Lacertae		850) η Aquarii		852) 10 Lacertae		855) ζ Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	22 <sup>h</sup> 28 <sup>m</sup>	+49° 53'	22 <sup>h</sup> 31 <sup>m</sup>	-0° 30'	22 <sup>h</sup> 35 <sup>m</sup>	+38° 38'	22 <sup>h</sup> 37 <sup>m</sup>	+10° 25'
Jan. 1.2	6.473 <sup>196</sup>	25.86 <sup>197</sup>	23.215 <sup>74</sup>	51.98 <sup>82</sup>	47.738 <sup>145</sup>	69.58 <sup>180</sup>	36.610 <sup>85</sup>	48.89 <sup>117</sup>
II.1	6.277 <sup>160</sup>	23.89 <sup>234</sup>	23.141 <sup>54</sup>	52.80 <sup>78</sup>	47.593 <sup>118</sup>	67.78 <sup>209</sup>	36.525 <sup>65</sup>	47.72 <sup>123</sup>
21.1	6.117 <sup>119</sup>	21.55 <sup>261</sup>	23.087 <sup>29</sup>	53.58 <sup>71</sup>	47.475 <sup>87</sup>	65.69 <sup>230</sup>	36.460 <sup>41</sup>	46.49 <sup>123</sup>
31.1	5.998 <sup>71</sup>	18.94 <sup>279</sup>	23.058 <sup>2</sup>	54.29 <sup>60</sup>	47.388 <sup>50</sup>	63.39 <sup>243</sup>	36.419 <sup>15</sup>	45.26 <sup>119</sup>
Feb. 10.0	5.927 <sup>18</sup>	16.15 <sup>285</sup>	23.056 <sup>26</sup>	54.89 <sup>46</sup>	47.338 <sup>9</sup>	60.96 <sup>245</sup>	36.404 <sup>15</sup>	44.07 <sup>108</sup>
20.0	5.909 <sup>38</sup>	13.30 <sup>279</sup>	23.082 <sup>56</sup>	55.35 <sup>27</sup>	47.329 <sup>36</sup>	58.51 <sup>237</sup>	36.419 <sup>46</sup>	42.99 <sup>92</sup>
März 2.0	5.947 <sup>97</sup>	10.51 <sup>263</sup>	23.138 <sup>88</sup>	55.62 <sup>5</sup>	47.365 <sup>121</sup>	56.14 <sup>219</sup>	36.465 <sup>80</sup>	42.07 <sup>70</sup>
12.0	6.044 <sup>155</sup>	7.88 <sup>235</sup>	23.226 <sup>123</sup>	55.67 <sup>20</sup>	47.446 <sup>89</sup>	53.95 <sup>192</sup>	36.545 <sup>115</sup>	41.37 <sup>44</sup>
21.9	6.199 <sup>213</sup>	5.53 <sup>198</sup>	23.349 <sup>156</sup>	55.47 <sup>47</sup>	47.575 <sup>177</sup>	52.03 <sup>156</sup>	36.660 <sup>151</sup>	40.93 <sup>14</sup>
31.9	6.412 <sup>266</sup>	3.55 <sup>154</sup>	23.505 <sup>189</sup>	55.00 <sup>74</sup>	47.752 <sup>221</sup>	50.47 <sup>114</sup>	36.811 <sup>186</sup>	40.79 <sup>20</sup>
Apr. 10.9	6.678 <sup>313</sup>	2.01 <sup>103</sup>	23.694 <sup>221</sup>	54.26 <sup>101</sup>	47.973 <sup>261</sup>	49.33 <sup>66</sup>	36.997 <sup>219</sup>	40.99 <sup>53</sup>
20.9	6.991 <sup>351</sup>	0.98 <sup>49</sup>	23.915 <sup>249</sup>	53.25 <sup>126</sup>	48.234 <sup>297</sup>	48.67 <sup>18</sup>	37.216 <sup>249</sup>	41.52 <sup>86</sup>
30.8	7.342 <sup>382</sup>	0.49 <sup>7</sup>	24.164 <sup>273</sup>	51.99 <sup>148</sup>	48.531 <sup>325</sup>	48.49 <sup>33</sup>	37.465 <sup>273</sup>	42.38 <sup>119</sup>
Mai 10.8	7.724 <sup>401</sup>	0.56 <sup>62</sup>	24.437 <sup>290</sup>	50.51 <sup>166</sup>	48.856 <sup>344</sup>	48.82 <sup>83</sup>	37.738 <sup>291</sup>	43.57 <sup>146</sup>
20.8	8.125 <sup>410</sup>	1.18 <sup>116</sup>	24.727 <sup>301</sup>	48.85 <sup>181</sup>	49.200 <sup>355</sup>	49.65 <sup>130</sup>	38.029 <sup>302</sup>	45.03 <sup>172</sup>
30.7	8.535 <sup>495</sup>	2.34 <sup>165</sup>	25.028 <sup>304</sup>	47.04 <sup>190</sup>	49.555 <sup>354</sup>	50.95 <sup>173</sup>	38.331 <sup>307</sup>	46.75 <sup>191</sup>
Juni 9.7	8.940 <sup>392</sup>	3.99 <sup>209</sup>	25.332 <sup>299</sup>	45.14 <sup>193</sup>	49.909 <sup>346</sup>	52.68 <sup>211</sup>	38.638 <sup>301</sup>	48.66 <sup>205</sup>
19.7	9.332 <sup>366</sup>	6.08 <sup>248</sup>	25.631 <sup>287</sup>	43.21 <sup>191</sup>	50.255 <sup>327</sup>	54.79 <sup>242</sup>	38.939 <sup>289</sup>	50.71 <sup>213</sup>
29.7	9.698 <sup>331</sup>	8.56 <sup>280</sup>	25.918 <sup>266</sup>	41.30 <sup>185</sup>	50.582 <sup>300</sup>	57.21 <sup>268</sup>	39.228 <sup>268</sup>	52.84 <sup>217</sup>
Juli 9.6	10.029 <sup>288</sup>	11.36 <sup>305</sup>	26.184 <sup>239</sup>	39.45 <sup>173</sup>	50.882 <sup>265</sup>	59.89 <sup>286</sup>	39.496 <sup>241</sup>	55.01 <sup>214</sup>
19.6	10.317 <sup>238</sup>	14.41 <sup>322</sup>	26.423 <sup>206</sup>	37.72 <sup>157</sup>	51.147 <sup>224</sup>	62.75 <sup>298</sup>	39.737 <sup>208</sup>	57.15 <sup>206</sup>
29.6	10.555 <sup>184</sup>	17.63 <sup>332</sup>	26.629 <sup>168</sup>	36.15 <sup>140</sup>	51.371 <sup>178</sup>	65.73 <sup>303</sup>	39.945 <sup>171</sup>	59.21 <sup>194</sup>
Aug. 8.6	10.739 <sup>125</sup>	20.95 <sup>334</sup>	26.797 <sup>127</sup>	34.75 <sup>117</sup>	51.549 <sup>129</sup>	68.76 <sup>301</sup>	40.116 <sup>129</sup>	61.15 <sup>177</sup>
18.5	10.864 <sup>66</sup>	24.29 <sup>330</sup>	26.924 <sup>85</sup>	33.58 <sup>95</sup>	51.678 <sup>79</sup>	71.77 <sup>292</sup>	40.245 <sup>87</sup>	62.92 <sup>159</sup>
28.5	10.930 <sup>9</sup>	27.59 <sup>318</sup>	27.009 <sup>42</sup>	32.63 <sup>73</sup>	51.757 <sup>30</sup>	74.69 <sup>278</sup>	40.332 <sup>44</sup>	64.51 <sup>137</sup>
Sept. 7.5	10.939 <sup>48</sup>	30.77 <sup>301</sup>	27.051 <sup>1</sup>	31.90 <sup>49</sup>	51.787 <sup>18</sup>	77.47 <sup>259</sup>	40.376 <sup>5</sup>	65.88 <sup>114</sup>
17.4	10.891 <sup>99</sup>	33.78 <sup>276</sup>	27.052 <sup>35</sup>	31.41 <sup>27</sup>	51.769 <sup>62</sup>	80.06 <sup>234</sup>	40.381 <sup>33</sup>	67.02 <sup>90</sup>
27.4	10.792 <sup>144</sup>	36.54 <sup>246</sup>	27.017 <sup>68</sup>	31.14 <sup>7</sup>	51.707 <sup>100</sup>	82.40 <sup>206</sup>	40.348 <sup>65</sup>	67.92 <sup>65</sup>
Okt. 7.4	10.648 <sup>184</sup>	39.00 <sup>211</sup>	26.949 <sup>93</sup>	31.07 <sup>12</sup>	51.607 <sup>134</sup>	84.46 <sup>172</sup>	40.283 <sup>92</sup>	68.57 <sup>42</sup>
17.4	10.464 <sup>215</sup>	41.11 <sup>172</sup>	26.856 <sup>114</sup>	31.19 <sup>28</sup>	51.473 <sup>159</sup>	86.18 <sup>136</sup>	40.191 <sup>112</sup>	68.99 <sup>18</sup>
27.3	10.249 <sup>239</sup>	42.83 <sup>127</sup>	26.742 <sup>126</sup>	31.47 <sup>42</sup>	51.314 <sup>179</sup>	87.54 <sup>96</sup>	40.079 <sup>126</sup>	69.17 <sup>4</sup>
Nov. 6.3	10.010 <sup>255</sup>	44.10 <sup>79</sup>	26.616 <sup>132</sup>	31.89 <sup>54</sup>	51.135 <sup>192</sup>	88.50 <sup>54</sup>	39.953 <sup>134</sup>	69.13 <sup>26</sup>
16.3	9.755 <sup>262</sup>	44.89 <sup>29</sup>	26.484 <sup>133</sup>	32.43 <sup>64</sup>	50.943 <sup>197</sup>	89.04 <sup>10</sup>	39.819 <sup>136</sup>	68.87 <sup>47</sup>
26.3	9.493 <sup>263</sup>	45.18 <sup>24</sup>	26.351 <sup>126</sup>	33.07 <sup>72</sup>	50.746 <sup>197</sup>	89.14 <sup>34</sup>	39.683 <sup>132</sup>	68.40 <sup>67</sup>
Dez. 6.2	9.230 <sup>254</sup>	44.94 <sup>75</sup>	26.225 <sup>117</sup>	33.79 <sup>78</sup>	50.549 <sup>190</sup>	88.80 <sup>79</sup>	39.551 <sup>124</sup>	67.73 <sup>84</sup>
16.2	8.976 <sup>239</sup>	44.19 <sup>126</sup>	26.108 <sup>103</sup>	34.57 <sup>81</sup>	50.359 <sup>178</sup>	88.01 <sup>120</sup>	39.427 <sup>112</sup>	66.89 <sup>99</sup>
26.2	8.737 <sup>214</sup>	42.93 <sup>171</sup>	26.005 <sup>86</sup>	35.38 <sup>83</sup>	50.181 <sup>159</sup>	86.81 <sup>159</sup>	39.315 <sup>96</sup>	65.90 <sup>112</sup>
36.1	8.523	41.22	25.919	36.21	50.022	85.22	39.219	64.78
Mittl. Ort sec δ, tg δ	6.953 1.552	10.25 +1.187	24.010 1.000	53.61 -0.009	48.202 1.280	56.67 +0.800	37.265 1.017	44.14 +0.184

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	856) $\beta$ Gruis		857) $\eta$ Pegasi		859) $\lambda$ Pegasi		860) $\epsilon$ Gruis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	22 <sup>h</sup> 38 <sup>m</sup>	-47° 16'	22 <sup>h</sup> 39 <sup>m</sup>	+29° 48'	22 <sup>h</sup> 42 <sup>m</sup>	+23° 9'	22 <sup>h</sup> 43 <sup>m</sup>	-51° 42'
Jan. 1.2	2.765 <sub>140</sub>	87.64 <sub>111</sub>	22.926 <sub>119</sub>	75.35 <sub>163</sub>	48.697 <sub>106</sub>	44.52 <sub>148</sub>	52.722 <sub>167</sub>	92.46 <sub>125</sub>
11.1	2.625 <sub>103</sub>	86.53 <sub>147</sub>	22.807 <sub>96</sub>	73.72 <sub>186</sub>	48.591 <sub>86</sub>	43.04 <sub>165</sub>	52.555 <sub>128</sub>	91.21 <sub>164</sub>
21.1	2.522 <sub>64</sub>	85.06 <sub>179</sub>	22.711 <sub>69</sub>	71.86 <sub>201</sub>	48.505 <sub>60</sub>	41.39 <sub>175</sub>	52.427 <sub>85</sub>	89.57 <sub>197</sub>
31.1	2.458 <sub>22</sub>	83.27 <sub>208</sub>	22.642 <sub>38</sub>	69.85 <sub>209</sub>	48.445 <sub>31</sub>	39.64 <sub>179</sub>	52.342 <sub>40</sub>	87.60 <sub>228</sub>
Feb. 10.0	2.436 <sub>20</sub>	81.19 <sub>231</sub>	22.604 <sub>2</sub>	67.76 <sub>207</sub>	48.414 <sub>0</sub>	37.85 <sub>175</sub>	52.302 <sub>9</sub>	85.32 <sub>252</sub>
20.0	2.456 <sub>66</sub>	78.88 <sub>249</sub>	22.602 <sub>36</sub>	65.69 <sub>197</sub>	48.414 <sub>36</sub>	36.10 <sub>162</sub>	52.311 <sub>58</sub>	82.80 <sub>270</sub>
März 2.0	2.522 <sub>112</sub>	76.39 <sub>262</sub>	22.638 <sub>76</sub>	63.72 <sub>177</sub>	48.450 <sub>73</sub>	34.48 <sub>143</sub>	52.369 <sub>108</sub>	80.10 <sub>283</sub>
12.0	2.634 <sub>159</sub>	73.77 <sub>269</sub>	22.714 <sub>119</sub>	61.95 <sub>150</sub>	48.523 <sub>112</sub>	33.05 <sub>115</sub>	52.477 <sub>160</sub>	77.27 <sub>290</sub>
21.9	2.793 <sub>205</sub>	71.08 <sub>273</sub>	22.833 <sub>161</sub>	60.45 <sub>116</sub>	48.635 <sub>152</sub>	31.90 <sub>83</sub>	52.637 <sub>211</sub>	74.37 <sub>291</sub>
31.9	2.998 <sub>250</sub>	68.35 <sub>270</sub>	22.994 <sub>201</sub>	59.29 <sub>76</sub>	48.787 <sub>190</sub>	31.07 <sub>45</sub>	52.848 <sub>261</sub>	71.46 <sub>285</sub>
Apr. 10.9	3.248 <sub>293</sub>	65.65 <sub>261</sub>	23.195 <sub>239</sub>	58.53 <sub>33</sub>	48.977 <sub>227</sub>	30.62 <sub>5</sub>	53.109 <sub>307</sub>	68.61 <sub>275</sub>
20.9	3.541 <sub>331</sub>	63.04 <sub>247</sub>	23.434 <sub>272</sub>	58.20 <sub>13</sub>	49.204 <sub>258</sub>	30.57 <sub>36</sub>	53.416 <sub>350</sub>	65.86 <sub>257</sub>
30.8	3.872 <sub>363</sub>	60.57 <sub>227</sub>	23.706 <sub>298</sub>	58.33 <sub>58</sub>	49.462 <sub>284</sub>	30.93 <sub>78</sub>	53.766 <sub>385</sub>	63.29 <sub>235</sub>
Mai 10.8	4.235 <sub>390</sub>	58.30 <sub>202</sub>	24.004 <sub>318</sub>	58.91 <sub>102</sub>	49.746 <sub>304</sub>	31.71 <sub>116</sub>	54.151 <sub>415</sub>	60.94 <sub>207</sub>
20.8	4.625 <sub>466</sub>	56.28 <sub>172</sub>	24.322 <sub>328</sub>	59.93 <sub>143</sub>	50.050 <sub>315</sub>	32.87 <sub>152</sub>	54.566 <sub>435</sub>	58.87 <sub>173</sub>
30.7	5.031 <sub>414</sub>	54.56 <sub>138</sub>	24.650 <sub>331</sub>	61.36 <sub>179</sub>	50.365 <sub>319</sub>	34.39 <sub>184</sub>	55.001 <sub>444</sub>	57.14 <sub>136</sub>
Juni 9.7	5.445 <sub>412</sub>	53.18 <sub>100</sub>	24.981 <sub>324</sub>	63.15 <sub>211</sub>	50.684 <sub>314</sub>	36.23 <sub>209</sub>	55.445 <sub>443</sub>	55.78 <sub>95</sub>
19.7	5.857 <sub>399</sub>	52.18 <sub>59</sub>	25.305 <sub>309</sub>	65.26 <sub>237</sub>	50.998 <sub>301</sub>	38.32 <sub>229</sub>	55.888 <sub>430</sub>	54.83 <sub>52</sub>
29.7	6.256 <sub>374</sub>	51.59 <sub>18</sub>	25.614 <sub>285</sub>	67.63 <sub>255</sub>	51.299 <sub>278</sub>	40.61 <sub>244</sub>	56.318 <sub>406</sub>	54.31 <sub>6</sub>
Juli 9.6	6.630 <sub>340</sub>	51.41 <sub>25</sub>	25.899 <sub>254</sub>	70.18 <sub>268</sub>	51.577 <sub>251</sub>	43.05 <sub>251</sub>	56.724 <sub>371</sub>	54.25 <sub>37</sub>
19.6	6.970 <sub>297</sub>	51.66 <sub>66</sub>	26.153 <sub>217</sub>	72.86 <sub>274</sub>	51.828 <sub>215</sub>	45.56 <sub>252</sub>	57.095 <sub>325</sub>	54.62 <sub>81</sub>
29.6	7.267 <sub>246</sub>	52.32 <sub>104</sub>	26.370 <sub>175</sub>	75.60 <sub>273</sub>	52.043 <sub>176</sub>	48.08 <sub>248</sub>	57.420 <sub>271</sub>	55.43 <sub>121</sub>
Aug. 8.6	7.513 <sub>189</sub>	53.36 <sub>138</sub>	26.545 <sub>131</sub>	78.33 <sub>268</sub>	52.219 <sub>134</sub>	50.56 <sub>240</sub>	57.691 <sub>209</sub>	56.64 <sub>157</sub>
18.5	7.702 <sub>127</sub>	54.74 <sub>168</sub>	26.676 <sub>85</sub>	81.01 <sub>250</sub>	52.353 <sub>89</sub>	52.96 <sub>225</sub>	57.900 <sub>144</sub>	58.21 <sub>187</sub>
28.5	7.829 <sub>65</sub>	56.42 <sub>190</sub>	26.761 <sub>38</sub>	83.57 <sub>239</sub>	52.442 <sub>45</sub>	55.21 <sub>207</sub>	58.044 <sub>76</sub>	60.08 <sub>210</sub>
Sept. 7.5	7.894 <sub>3</sub>	58.32 <sub>205</sub>	26.799 <sub>4</sub>	85.96 <sub>219</sub>	52.487 <sub>4</sub>	57.28 <sub>185</sub>	58.120 <sub>8</sub>	62.18 <sub>224</sub>
17.4	7.897 <sub>55</sub>	60.37 <sub>212</sub>	26.795 <sub>46</sub>	88.15 <sub>194</sub>	52.491 <sub>35</sub>	59.13 <sub>161</sub>	58.128 <sub>56</sub>	64.42 <sub>230</sub>
27.4	7.842 <sub>108</sub>	62.49 <sub>209</sub>	26.749 <sub>80</sub>	90.09 <sub>166</sub>	52.456 <sub>69</sub>	60.74 <sub>134</sub>	58.072 <sub>115</sub>	66.72 <sub>227</sub>
Okt. 7.4	7.734 <sub>153</sub>	64.58 <sub>198</sub>	26.669 <sub>111</sub>	91.75 <sub>135</sub>	52.387 <sub>98</sub>	62.08 <sub>105</sub>	57.957 <sub>164</sub>	68.99 <sub>213</sub>
17.4	7.581 <sub>187</sub>	66.56 <sub>179</sub>	26.558 <sub>134</sub>	93.10 <sub>102</sub>	52.289 <sub>120</sub>	63.13 <sub>76</sub>	57.793 <sub>206</sub>	71.12 <sub>192</sub>
27.3	7.394 <sub>213</sub>	68.35 <sub>152</sub>	26.424 <sub>152</sub>	94.12 <sub>67</sub>	52.169 <sub>137</sub>	63.89 <sub>44</sub>	57.587 <sub>235</sub>	73.04 <sub>163</sub>
Nov. 6.3	7.181 <sub>226</sub>	69.87 <sub>119</sub>	26.272 <sub>161</sub>	94.79 <sub>31</sub>	52.032 <sub>146</sub>	64.33 <sub>12</sub>	57.352 <sub>253</sub>	74.67 <sub>125</sub>
16.3	6.955 <sub>230</sub>	71.06 <sub>81</sub>	26.111 <sub>168</sub>	95.10 <sub>8</sub>	51.886 <sub>151</sub>	64.45 <sub>20</sub>	57.099 <sub>258</sub>	75.92 <sub>85</sub>
26.3	6.725 <sub>223</sub>	71.87 <sub>40</sub>	25.943 <sub>165</sub>	95.02 <sub>45</sub>	51.735 <sub>149</sub>	64.25 <sub>51</sub>	56.841 <sub>254</sub>	76.77 <sub>39</sub>
Dez. 6.2	6.502 <sub>208</sub>	72.27 <sub>2</sub>	25.778 <sub>159</sub>	94.57 <sub>81</sub>	51.586 <sub>143</sub>	63.74 <sub>82</sub>	56.587 <sub>239</sub>	77.16 <sub>7</sub>
16.2	6.294 <sub>185</sub>	72.25 <sub>45</sub>	25.619 <sub>148</sub>	93.76 <sub>116</sub>	51.443 <sub>133</sub>	62.92 <sub>110</sub>	56.348 <sub>215</sub>	77.09 <sub>53</sub>
26.2	6.109 <sub>157</sub>	71.80 <sub>86</sub>	25.471 <sub>132</sub>	92.60 <sub>147</sub>	51.310 <sub>117</sub>	61.82 <sub>135</sub>	56.133 <sub>186</sub>	76.56 <sub>98</sub>
36.1	5.952	70.94	25.339	91.13	51.193	60.47	55.947	75.58
Mittl. Ort	4.516	76.60	23.420	64.88	49.217	36.05	54.640	80.18
sec $\delta$ , tg $\delta$	1.474	-1.083	1.153	+0.573	1.088	+0.428	1.614	-1.267



Mittlere Zeit Greenw.	863) $\epsilon$ Cephei		864) $\lambda$ Aquarii		865) $\rho$ Indi		866) $\delta$ Aquarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	22 <sup>h</sup> 46 <sup>m</sup>	+65° 47'	22 <sup>h</sup> 48 <sup>m</sup>	-7° 59'	22 <sup>h</sup> 49 <sup>m</sup>	-7° 28'	22 <sup>h</sup> 50 <sup>m</sup>	-16° 13'
Jan. 1.2	55.83 <sup>39</sup>	61.00 <sup>174</sup>	35.111 <sup>83</sup>	24.49 <sup>53</sup>	15.68 <sup>39</sup>	83.02 <sup>190</sup>	33.030 <sup>88</sup>	54.46 <sup>23</sup>
11.1	55.44 <sup>35</sup>	59.26 <sup>222</sup>	35.028 <sup>64</sup>	25.02 <sup>43</sup>	15.29 <sup>32</sup>	81.12 <sup>235</sup>	32.942 <sup>67</sup>	54.69 <sup>6</sup>
21.1	55.09 <sup>27</sup>	57.04 <sup>262</sup>	34.964 <sup>42</sup>	25.45 <sup>29</sup>	14.97 <sup>24</sup>	78.77 <sup>274</sup>	32.875 <sup>44</sup>	54.75 <sup>13</sup>
31.1	54.82 <sup>20</sup>	54.42 <sup>291</sup>	34.922 <sup>17</sup>	25.74 <sup>16</sup>	14.73 <sup>14</sup>	76.03 <sup>305</sup>	32.831 <sup>19</sup>	54.62 <sup>32</sup>
Feb. 10.1	54.62 <sup>12</sup>	51.51 <sup>310</sup>	34.905 <sup>11</sup>	25.90 <sup>2</sup>	14.59 <sup>5</sup>	72.98 <sup>327</sup>	32.812 <sup>10</sup>	54.30 <sup>52</sup>
20.0	54.50 <sup>3</sup>	48.41 <sup>315</sup>	34.916 <sup>40</sup>	25.88 <sup>22</sup>	14.54 <sup>5</sup>	69.71 <sup>343</sup>	32.822 <sup>41</sup>	53.78 <sup>73</sup>
März 2.0	54.47 <sup>8</sup>	45.26 <sup>308</sup>	34.956 <sup>73</sup>	25.66 <sup>43</sup>	14.59 <sup>14</sup>	66.28 <sup>350</sup>	32.863 <sup>73</sup>	53.05 <sup>94</sup>
12.0	54.55 <sup>17</sup>	42.18 <sup>289</sup>	35.029 <sup>107</sup>	25.23 <sup>66</sup>	14.73 <sup>25</sup>	62.78 <sup>349</sup>	32.936 <sup>108</sup>	52.11 <sup>115</sup>
22.0	54.72 <sup>26</sup>	39.29 <sup>258</sup>	35.136 <sup>142</sup>	24.57 <sup>90</sup>	14.98 <sup>33</sup>	59.29 <sup>341</sup>	33.044 <sup>144</sup>	50.96 <sup>135</sup>
31.9	54.98 <sup>35</sup>	36.71 <sup>218</sup>	35.278 <sup>177</sup>	23.67 <sup>112</sup>	15.31 <sup>43</sup>	55.88 <sup>325</sup>	33.188 <sup>178</sup>	49.61 <sup>153</sup>
Apr. 10.9	55.33 <sup>44</sup>	34.53 <sup>170</sup>	35.455 <sup>209</sup>	22.55 <sup>134</sup>	15.74 <sup>50</sup>	52.63 <sup>303</sup>	33.366 <sup>213</sup>	48.08 <sup>169</sup>
20.9	55.77 <sup>49</sup>	32.83 <sup>116</sup>	35.664 <sup>240</sup>	21.21 <sup>154</sup>	16.24 <sup>58</sup>	49.60 <sup>274</sup>	33.579 <sup>244</sup>	46.39 <sup>182</sup>
30.8	56.26 <sup>54</sup>	31.67 <sup>59</sup>	35.904 <sup>267</sup>	19.67 <sup>169</sup>	16.82 <sup>65</sup>	46.86 <sup>239</sup>	33.823 <sup>271</sup>	44.57 <sup>190</sup>
Mai 10.8	56.80 <sup>57</sup>	31.08 <sup>1</sup>	36.171 <sup>287</sup>	17.98 <sup>181</sup>	17.47 <sup>69</sup>	44.47 <sup>199</sup>	34.094 <sup>293</sup>	42.67 <sup>194</sup>
20.8	57.37 <sup>59</sup>	31.09 <sup>60</sup>	36.458 <sup>301</sup>	16.17 <sup>188</sup>	18.16 <sup>72</sup>	42.48 <sup>154</sup>	34.387 <sup>308</sup>	40.73 <sup>192</sup>
30.8	57.96 <sup>59</sup>	31.69 <sup>116</sup>	36.759 <sup>308</sup>	14.29 <sup>189</sup>	18.88 <sup>75</sup>	40.94 <sup>105</sup>	34.695 <sup>315</sup>	38.81 <sup>187</sup>
Juni 9.7	58.55 <sup>57</sup>	32.85 <sup>169</sup>	37.067 <sup>305</sup>	12.40 <sup>187</sup>	19.63 <sup>74</sup>	39.89 <sup>55</sup>	35.010 <sup>314</sup>	36.94 <sup>175</sup>
19.7	59.12 <sup>54</sup>	34.54 <sup>216</sup>	37.372 <sup>297</sup>	10.53 <sup>178</sup>	20.37 <sup>73</sup>	39.34 <sup>2</sup>	35.324 <sup>306</sup>	35.19 <sup>160</sup>
29.7	59.66 <sup>48</sup>	36.70 <sup>259</sup>	37.669 <sup>279</sup>	8.75 <sup>165</sup>	21.10 <sup>68</sup>	39.32 <sup>50</sup>	35.630 <sup>288</sup>	33.59 <sup>139</sup>
Juli 9.7	60.14 <sup>43</sup>	39.29 <sup>295</sup>	37.948 <sup>254</sup>	7.10 <sup>148</sup>	21.78 <sup>62</sup>	39.82 <sup>101</sup>	35.918 <sup>264</sup>	32.20 <sup>115</sup>
19.6	60.57 <sup>35</sup>	42.24 <sup>322</sup>	38.202 <sup>223</sup>	5.62 <sup>127</sup>	22.40 <sup>55</sup>	40.83 <sup>148</sup>	36.182 <sup>231</sup>	31.05 <sup>90</sup>
29.6	60.92 <sup>28</sup>	45.46 <sup>344</sup>	38.425 <sup>186</sup>	4.35 <sup>104</sup>	22.95 <sup>46</sup>	42.31 <sup>191</sup>	36.413 <sup>195</sup>	30.15 <sup>62</sup>
Aug. 8.6	61.20 <sup>20</sup>	48.90 <sup>356</sup>	38.611 <sup>147</sup>	3.31 <sup>80</sup>	23.41 <sup>36</sup>	44.22 <sup>227</sup>	36.608 <sup>154</sup>	29.53 <sup>33</sup>
18.5	61.40 <sup>11</sup>	52.46 <sup>362</sup>	38.758 <sup>103</sup>	2.51 <sup>54</sup>	23.77 <sup>24</sup>	46.49 <sup>257</sup>	36.762 <sup>110</sup>	29.20 <sup>6</sup>
28.5	61.51 <sup>2</sup>	56.08 <sup>360</sup>	38.861 <sup>61</sup>	1.97 <sup>29</sup>	24.01 <sup>11</sup>	49.06 <sup>276</sup>	36.872 <sup>65</sup>	29.14 <sup>20</sup>
Sept. 7.5	61.53 <sup>6</sup>	59.68 <sup>350</sup>	38.922 <sup>20</sup>	1.68 <sup>7</sup>	24.12 <sup>1</sup>	51.82 <sup>286</sup>	36.937 <sup>23</sup>	29.34 <sup>43</sup>
17.5	61.47 <sup>14</sup>	63.18 <sup>332</sup>	38.942 <sup>18</sup>	1.61 <sup>15</sup>	24.11 <sup>12</sup>	54.68 <sup>285</sup>	36.960 <sup>18</sup>	29.77 <sup>62</sup>
27.4	61.33 <sup>21</sup>	66.50 <sup>309</sup>	38.924 <sup>53</sup>	1.76 <sup>33</sup>	23.99 <sup>24</sup>	57.53 <sup>272</sup>	36.942 <sup>53</sup>	30.39 <sup>77</sup>
Okt. 7.4	61.12 <sup>29</sup>	69.59 <sup>277</sup>	38.871 <sup>81</sup>	2.09 <sup>48</sup>	23.75 <sup>31</sup>	60.25 <sup>250</sup>	36.889 <sup>84</sup>	31.16 <sup>88</sup>
17.4	60.83 <sup>33</sup>	72.36 <sup>239</sup>	38.790 <sup>103</sup>	2.57 <sup>60</sup>	23.41 <sup>43</sup>	62.75 <sup>216</sup>	36.805 <sup>106</sup>	32.04 <sup>93</sup>
27.4	60.50 <sup>39</sup>	74.75 <sup>195</sup>	38.687 <sup>119</sup>	3.17 <sup>68</sup>	22.98 <sup>48</sup>	64.91 <sup>174</sup>	36.699 <sup>124</sup>	32.97 <sup>95</sup>
Nov. 6.3	60.11 <sup>42</sup>	76.70 <sup>146</sup>	38.568 <sup>127</sup>	3.85 <sup>72</sup>	22.50 <sup>54</sup>	66.65 <sup>125</sup>	36.575 <sup>133</sup>	33.92 <sup>91</sup>
16.3	59.69 <sup>45</sup>	78.16 <sup>91</sup>	38.441 <sup>130</sup>	4.57 <sup>75</sup>	21.96 <sup>55</sup>	67.90 <sup>70</sup>	36.442 <sup>137</sup>	34.83 <sup>85</sup>
26.3	59.24 <sup>46</sup>	79.07 <sup>34</sup>	38.311 <sup>128</sup>	5.32 <sup>73</sup>	21.41 <sup>55</sup>	68.60 <sup>12</sup>	36.305 <sup>133</sup>	35.68 <sup>74</sup>
Dez. 6.2	58.78 <sup>46</sup>	79.41 <sup>26</sup>	38.183 <sup>120</sup>	6.05 <sup>71</sup>	20.86 <sup>53</sup>	68.72 <sup>47</sup>	36.172 <sup>126</sup>	36.42 <sup>63</sup>
16.2	58.32 <sup>46</sup>	79.15 <sup>84</sup>	38.063 <sup>108</sup>	6.76 <sup>66</sup>	20.33 <sup>49</sup>	68.25 <sup>104</sup>	36.046 <sup>113</sup>	37.05 <sup>49</sup>
26.2	57.86 <sup>42</sup>	78.31 <sup>141</sup>	37.955 <sup>93</sup>	7.42 <sup>59</sup>	19.84 <sup>43</sup>	67.21 <sup>159</sup>	35.933 <sup>98</sup>	37.54 <sup>34</sup>
36.2	57.44	76.90	37.862	8.01	19.41	65.62	35.835	37.88
Mittl. Ort sec $\delta$ , tg $\delta$	56.05 2.439	42.51 +2.225	35.907 1.010	23.06 -0.140	19.40 2.994	67.90 -2.822	33.930 1.042	50.42 -0.201



# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	867) $\alpha$ Pisc. austr.		869) $\sigma$ Andromedae		870) $\beta$ Pegasi		871) $\alpha$ Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	22 <sup>h</sup> 53 <sup>m</sup>	-30° 1'	22 <sup>h</sup> 58 <sup>m</sup>	+41° 54'	23 <sup>h</sup> 0 <sup>m</sup>	+27° 39'	23 <sup>h</sup> 0 <sup>m</sup>	+14° 47'
Jan. 1.2	22.796 <sub>105</sub>	58.45 <sub>29</sub>	22.200 <sub>172</sub>	55.70 <sub>163</sub>	1.957 <sub>125</sub>	62.60 <sub>145</sub>	54.940 <sub>103</sub>	31.59 <sub>120</sub>
11.1	22.691 <sub>80</sub>	58.16 <sub>58</sub>	22.028 <sub>148</sub>	54.07 <sub>197</sub>	1.832 <sub>105</sub>	61.15 <sub>166</sub>	54.837 <sub>85</sub>	30.39 <sub>129</sub>
21.1	22.611 <sub>55</sub>	57.58 <sub>86</sub>	21.880 <sub>119</sub>	52.10 <sub>223</sub>	1.727 <sub>82</sub>	59.49 <sub>182</sub>	54.752 <sub>64</sub>	29.10 <sub>135</sub>
31.1	22.556 <sub>25</sub>	56.72 <sub>110</sub>	21.761 <sub>83</sub>	49.87 <sub>240</sub>	1.645 <sub>54</sub>	57.67 <sub>191</sub>	54.688 <sub>40</sub>	27.75 <sub>134</sub>
Feb. 10.1	22.531 <sub>7</sub>	55.62 <sub>134</sub>	21.678 <sub>42</sub>	47.47 <sub>249</sub>	1.591 <sub>22</sub>	55.76 <sub>190</sub>	54.648 <sub>11</sub>	26.41 <sub>127</sub>
20.0	22.538 <sub>40</sub>	54.28 <sub>156</sub>	21.636 <sub>4</sub>	44.98 <sub>246</sub>	1.569 <sub>15</sub>	53.86 <sub>182</sub>	54.637 <sub>20</sub>	25.14 <sub>114</sub>
März 2.0	22.578 <sub>77</sub>	52.72 <sub>175</sub>	21.640 <sub>53</sub>	42.52 <sub>233</sub>	1.584 <sub>53</sub>	52.04 <sub>166</sub>	54.657 <sub>56</sub>	24.00 <sub>95</sub>
12.0	22.655 <sub>114</sub>	50.97 <sub>192</sub>	21.693 <sub>104</sub>	40.19 <sub>210</sub>	1.637 <sub>96</sub>	50.38 <sub>140</sub>	54.713 <sub>92</sub>	23.05 <sub>69</sub>
22.0	22.769 <sub>152</sub>	49.05 <sub>206</sub>	21.797 <sub>156</sub>	38.09 <sub>179</sub>	1.733 <sub>138</sub>	48.98 <sub>110</sub>	54.805 <sub>131</sub>	22.36 <sub>40</sub>
31.9	22.921 <sub>191</sub>	46.99 <sub>216</sub>	21.953 <sub>205</sub>	36.30 <sub>139</sub>	1.871 <sub>180</sub>	47.88 <sub>73</sub>	54.936 <sub>168</sub>	21.96 <sub>7</sub>
Apr. 10.9	23.112 <sub>228</sub>	44.83 <sub>221</sub>	22.158 <sub>252</sub>	34.91 <sub>95</sub>	2.051 <sub>219</sub>	47.15 <sub>32</sub>	55.104 <sub>204</sub>	21.89 <sub>28</sub>
20.9	23.340 <sub>262</sub>	42.62 <sub>223</sub>	22.410 <sub>293</sub>	33.96 <sub>46</sub>	2.270 <sub>255</sub>	46.83 <sub>10</sub>	55.308 <sub>237</sub>	22.17 <sub>63</sub>
30.8	23.602 <sub>291</sub>	40.39 <sub>219</sub>	22.703 <sub>326</sub>	33.50 <sub>4</sub>	2.525 <sub>285</sub>	46.93 <sub>54</sub>	55.545 <sub>266</sub>	22.80 <sub>98</sub>
Mai 10.8	23.893 <sub>316</sub>	38.20 <sub>211</sub>	23.029 <sub>350</sub>	33.54 <sub>55</sub>	2.810 <sub>307</sub>	47.47 <sub>95</sub>	55.811 <sub>288</sub>	23.78 <sub>130</sub>
20.8	24.209 <sub>332</sub>	36.09 <sub>196</sub>	23.379 <sub>366</sub>	34.09 <sub>104</sub>	3.117 <sub>322</sub>	48.42 <sub>134</sub>	56.099 <sub>302</sub>	25.08 <sub>158</sub>
30.8	24.541 <sub>342</sub>	34.13 <sub>176</sub>	23.745 <sub>371</sub>	35.13 <sub>149</sub>	3.439 <sub>329</sub>	49.76 <sub>170</sub>	56.401 <sub>310</sub>	26.66 <sub>183</sub>
Juni 9.7	24.883 <sub>341</sub>	32.37 <sub>153</sub>	24.116 <sub>366</sub>	36.62 <sub>190</sub>	3.768 <sub>326</sub>	51.46 <sub>200</sub>	56.711 <sub>309</sub>	28.49 <sub>202</sub>
19.7	25.224 <sub>334</sub>	30.84 <sub>124</sub>	24.482 <sub>350</sub>	38.52 <sub>227</sub>	4.094 <sub>314</sub>	53.46 <sub>225</sub>	57.020 <sub>299</sub>	30.51 <sub>215</sub>
29.7	25.558 <sub>316</sub>	29.60 <sub>94</sub>	24.832 <sub>327</sub>	40.79 <sub>256</sub>	4.408 <sub>295</sub>	55.71 <sub>244</sub>	57.319 <sub>282</sub>	32.66 <sub>223</sub>
Juli 9.7	25.874 <sub>290</sub>	28.66 <sub>59</sub>	25.159 <sub>293</sub>	43.35 <sub>279</sub>	4.703 <sub>268</sub>	58.15 <sub>256</sub>	57.601 <sub>258</sub>	34.89 <sub>226</sub>
19.6	26.164 <sub>256</sub>	28.07 <sub>25</sub>	25.452 <sub>255</sub>	46.14 <sub>295</sub>	4.971 <sub>234</sub>	60.71 <sub>263</sub>	57.859 <sub>226</sub>	37.15 <sub>221</sub>
29.6	26.420 <sub>217</sub>	27.82 <sub>9</sub>	25.707 <sub>209</sub>	49.09 <sub>305</sub>	5.205 <sub>195</sub>	63.34 <sub>263</sub>	58.085 <sub>191</sub>	39.36 <sub>213</sub>
Aug. 8.6	26.637 <sub>172</sub>	27.91 <sub>73</sub>	25.916 <sub>161</sub>	52.14 <sub>307</sub>	5.400 <sub>153</sub>	65.97 <sub>257</sub>	58.276 <sub>151</sub>	41.49 <sub>200</sub>
18.5	26.809 <sub>124</sub>	28.34 <sub>43</sub>	26.077 <sub>110</sub>	55.21 <sub>304</sub>	5.553 <sub>108</sub>	68.54 <sub>247</sub>	58.427 <sub>109</sub>	43.49 <sub>183</sub>
28.5	26.933 <sub>75</sub>	29.07 <sub>100</sub>	26.187 <sub>59</sub>	58.25 <sub>293</sub>	5.661 <sub>65</sub>	71.01 <sub>232</sub>	58.536 <sub>67</sub>	45.32 <sub>164</sub>
Sept. 7.5	27.008 <sub>27</sub>	30.07 <sub>121</sub>	26.246 <sub>9</sub>	61.18 <sub>278</sub>	5.726 <sub>21</sub>	73.33 <sub>212</sub>	58.603 <sub>27</sub>	46.96 <sub>142</sub>
17.5	27.035 <sub>19</sub>	31.28 <sub>137</sub>	26.255 <sub>37</sub>	63.96 <sub>256</sub>	5.747 <sub>19</sub>	75.45 <sub>189</sub>	58.630 <sub>11</sub>	48.38 <sub>118</sub>
27.4	27.016 <sub>60</sub>	32.65 <sub>146</sub>	26.218 <sub>78</sub>	66.52 <sub>231</sub>	5.728 <sub>56</sub>	77.34 <sub>163</sub>	58.619 <sub>45</sub>	49.56 <sub>94</sub>
Okt. 7.4	26.956 <sub>94</sub>	34.11 <sub>149</sub>	26.140 <sub>116</sub>	68.83 <sub>199</sub>	5.672 <sub>86</sub>	78.97 <sub>134</sub>	58.574 <sub>73</sub>	50.50 <sub>68</sub>
17.4	26.862 <sub>123</sub>	35.60 <sub>144</sub>	26.024 <sub>146</sub>	70.82 <sub>165</sub>	5.586 <sub>112</sub>	80.31 <sub>103</sub>	58.501 <sub>98</sub>	51.18 <sub>43</sub>
27.4	26.739 <sub>142</sub>	37.04 <sub>134</sub>	25.878 <sub>171</sub>	72.47 <sub>126</sub>	5.474 <sub>131</sub>	81.34 <sub>71</sub>	58.403 <sub>114</sub>	51.61 <sub>19</sub>
Nov. 6.3	26.597 <sub>154</sub>	38.38 <sub>118</sub>	25.707 <sub>188</sub>	73.73 <sub>84</sub>	5.343 <sub>144</sub>	82.05 <sub>37</sub>	58.289 <sub>126</sub>	51.80 <sub>7</sub>
16.3	26.443 <sub>159</sub>	39.56 <sub>96</sub>	25.519 <sub>200</sub>	74.57 <sub>39</sub>	5.199 <sub>153</sub>	82.42 <sub>2</sub>	58.163 <sub>133</sub>	51.73 <sub>30</sub>
26.3	26.284 <sub>156</sub>	40.52 <sub>72</sub>	25.319 <sub>206</sub>	74.96 <sub>6</sub>	5.046 <sub>156</sub>	82.44 <sub>32</sub>	58.030 <sub>133</sub>	51.43 <sub>54</sub>
Dez. 6.2	26.128 <sub>148</sub>	41.24 <sub>46</sub>	25.113 <sub>205</sub>	74.90 <sub>52</sub>	4.890 <sub>153</sub>	82.12 <sub>67</sub>	57.897 <sub>130</sub>	50.89 <sub>75</sub>
16.2	25.980 <sub>133</sub>	41.70 <sub>17</sub>	24.908 <sub>197</sub>	74.38 <sub>97</sub>	4.737 <sub>146</sub>	81.45 <sub>99</sub>	57.767 <sub>123</sub>	50.14 <sub>95</sub>
26.2	25.847 <sub>116</sub>	41.87 <sub>12</sub>	24.711 <sub>184</sub>	73.41 <sub>139</sub>	4.591 <sub>134</sub>	80.46 <sub>129</sub>	57.644 <sub>110</sub>	49.19 <sub>111</sub>
36.2	25.731	41.75	24.527	72.02	4.457	79.17	57.534	48.08
Mittl. Ort sec $\delta$ , tg $\delta$	23.930 1.155	50.35 -0.578	22.473 1.344	42.28 +0.898	2.334 1.129	53.20 +0.524	55.425 1.034	26.22 +0.264

Mittlere Zeit Greenw.	872) $\delta$ Gruis		873) $\epsilon^2$ Aquarii		874) $\pi$ Cephei		875) Br. 3077	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	23 <sup>h</sup> 2 <sup>m</sup>	-43° 55'	23 <sup>h</sup> 5 <sup>m</sup>	-21° 35'	23 <sup>h</sup> 5 <sup>m</sup>	+74° 58'	23 <sup>h</sup> 9 <sup>m</sup>	+56° 44'
1923								
Jan. 1.2	31.334 <sup>149</sup>	84.41 <sup>79</sup>	19.685 <sup>101</sup>	32.79 <sup>7</sup>	26.89 <sup>71</sup>	35.47 <sup>139</sup>	34.071 <sup>274</sup>	51.31 <sup>152</sup>
II.2	31.185 <sup>121</sup>	83.62 <sup>118</sup>	19.584 <sup>82</sup>	32.86 <sup>16</sup>	26.18 <sup>64</sup>	34.08 <sup>193</sup>	33.797 <sup>245</sup>	49.79 <sup>197</sup>
21.1	31.064 <sup>88</sup>	82.44 <sup>152</sup>	19.502 <sup>59</sup>	32.70 <sup>39</sup>	25.54 <sup>54</sup>	32.15 <sup>241</sup>	33.552 <sup>205</sup>	47.82 <sup>235</sup>
31.1	30.976 <sup>53</sup>	80.92 <sup>183</sup>	19.443 <sup>34</sup>	32.31 <sup>61</sup>	25.00 <sup>43</sup>	29.74 <sup>279</sup>	33.347 <sup>155</sup>	45.47 <sup>264</sup>
Feb. 10.1	30.923 <sup>14</sup>	79.09 <sup>210</sup>	19.409 <sup>6</sup>	31.70 <sup>85</sup>	24.57 <sup>28</sup>	26.95 <sup>306</sup>	33.192 <sup>97</sup>	42.83 <sup>283</sup>
20.0	30.909 <sup>27</sup>	76.99 <sup>233</sup>	19.403 <sup>25</sup>	30.85 <sup>106</sup>	24.29 <sup>14</sup>	23.89 <sup>319</sup>	33.095 <sup>33</sup>	40.00 <sup>289</sup>
März 2.0	30.936 <sup>70</sup>	74.66 <sup>250</sup>	19.428 <sup>59</sup>	29.79 <sup>128</sup>	24.15 <sup>1</sup>	20.70 <sup>322</sup>	33.062 <sup>37</sup>	37.11 <sup>285</sup>
12.0	31.006 <sup>116</sup>	72.16 <sup>263</sup>	19.487 <sup>94</sup>	28.51 <sup>148</sup>	24.16 <sup>18</sup>	17.48 <sup>310</sup>	33.099 <sup>110</sup>	34.26 <sup>268</sup>
22.0	31.122 <sup>161</sup>	69.53 <sup>271</sup>	19.581 <sup>132</sup>	27.03 <sup>167</sup>	24.34 <sup>33</sup>	14.38 <sup>287</sup>	33.209 <sup>182</sup>	31.58 <sup>240</sup>
31.9	31.283 <sup>206</sup>	66.82 <sup>273</sup>	19.713 <sup>168</sup>	25.36 <sup>183</sup>	24.67 <sup>47</sup>	11.51 <sup>253</sup>	33.391 <sup>250</sup>	29.18 <sup>203</sup>
Apr. 10.9	31.489 <sup>250</sup>	64.09 <sup>270</sup>	19.881 <sup>205</sup>	23.53 <sup>195</sup>	25.14 <sup>60</sup>	8.98 <sup>209</sup>	33.641 <sup>315</sup>	27.15 <sup>159</sup>
20.9	31.739 <sup>291</sup>	61.39 <sup>261</sup>	20.086 <sup>239</sup>	21.58 <sup>204</sup>	25.74 <sup>70</sup>	6.89 <sup>159</sup>	33.956 <sup>369</sup>	25.56 <sup>109</sup>
30.9	32.030 <sup>327</sup>	58.78 <sup>246</sup>	20.325 <sup>269</sup>	19.54 <sup>207</sup>	26.44 <sup>79</sup>	5.30 <sup>104</sup>	34.325 <sup>415</sup>	24.47 <sup>55</sup>
Mai 10.8	32.357 <sup>355</sup>	56.32 <sup>225</sup>	20.594 <sup>293</sup>	17.45 <sup>209</sup>	27.23 <sup>85</sup>	4.26 <sup>45</sup>	34.740 <sup>449</sup>	23.92 <sup>1</sup>
20.8	32.712 <sup>378</sup>	54.07 <sup>199</sup>	20.887 <sup>311</sup>	15.38 <sup>202</sup>	28.08 <sup>88</sup>	3.81 <sup>15</sup>	35.189 <sup>469</sup>	23.93 <sup>56</sup>
30.8	33.090 <sup>390</sup>	52.08 <sup>168</sup>	21.198 <sup>322</sup>	13.36 <sup>191</sup>	28.96 <sup>88</sup>	3.96 <sup>73</sup>	35.658 <sup>476</sup>	24.49 <sup>110</sup>
Juni 9.7	33.480 <sup>394</sup>	50.40 <sup>133</sup>	21.520 <sup>324</sup>	11.45 <sup>175</sup>	29.84 <sup>87</sup>	4.69 <sup>129</sup>	36.134 <sup>471</sup>	25.59 <sup>160</sup>
19.7	33.874 <sup>386</sup>	49.07 <sup>94</sup>	21.844 <sup>317</sup>	9.70 <sup>155</sup>	30.71 <sup>82</sup>	5.98 <sup>182</sup>	36.605 <sup>452</sup>	27.19 <sup>206</sup>
29.7	34.260 <sup>368</sup>	48.13 <sup>53</sup>	22.161 <sup>302</sup>	8.15 <sup>129</sup>	31.53 <sup>75</sup>	7.80 <sup>229</sup>	37.057 <sup>421</sup>	29.25 <sup>246</sup>
Juli 9.7	34.628 <sup>341</sup>	47.60 <sup>11</sup>	22.463 <sup>280</sup>	6.86 <sup>102</sup>	32.28 <sup>67</sup>	10.09 <sup>270</sup>	37.478 <sup>381</sup>	31.71 <sup>280</sup>
19.6	34.969 <sup>304</sup>	47.49 <sup>32</sup>	22.743 <sup>249</sup>	5.84 <sup>71</sup>	32.95 <sup>57</sup>	12.79 <sup>306</sup>	37.859 <sup>331</sup>	34.51 <sup>306</sup>
29.6	35.273 <sup>259</sup>	47.81 <sup>72</sup>	22.992 <sup>213</sup>	5.13 <sup>40</sup>	33.52 <sup>45</sup>	15.85 <sup>333</sup>	38.190 <sup>275</sup>	37.57 <sup>327</sup>
Aug. 8.6	35.532 <sup>208</sup>	48.53 <sup>111</sup>	23.205 <sup>172</sup>	4.73 <sup>8</sup>	33.97 <sup>34</sup>	19.18 <sup>354</sup>	38.465 <sup>214</sup>	40.84 <sup>339</sup>
18.6	35.740 <sup>152</sup>	49.64 <sup>143</sup>	23.377 <sup>128</sup>	4.65 <sup>22</sup>	34.31 <sup>21</sup>	22.72 <sup>366</sup>	38.679 <sup>149</sup>	44.23 <sup>344</sup>
28.5	35.892 <sup>94</sup>	51.07 <sup>171</sup>	23.505 <sup>83</sup>	4.87 <sup>49</sup>	34.52 <sup>7</sup>	26.38 <sup>372</sup>	38.828 <sup>84</sup>	47.67 <sup>342</sup>
Sept. 7.5	35.986 <sup>37</sup>	52.78 <sup>191</sup>	23.588 <sup>39</sup>	5.36 <sup>74</sup>	34.59 <sup>5</sup>	30.10 <sup>369</sup>	38.912 <sup>20</sup>	51.09 <sup>333</sup>
17.5	36.023 <sup>20</sup>	54.69 <sup>204</sup>	23.627 <sup>4</sup>	6.10 <sup>93</sup>	34.54 <sup>17</sup>	33.79 <sup>358</sup>	38.932 <sup>40</sup>	54.42 <sup>318</sup>
27.4	36.003 <sup>70</sup>	56.73 <sup>208</sup>	23.623 <sup>42</sup>	7.03 <sup>107</sup>	34.37 <sup>30</sup>	37.37 <sup>340</sup>	38.892 <sup>98</sup>	57.60 <sup>255</sup>
Okt. 7.4	35.933 <sup>115</sup>	58.81 <sup>203</sup>	23.581 <sup>74</sup>	8.10 <sup>116</sup>	34.07 <sup>40</sup>	40.77 <sup>315</sup>	38.794 <sup>150</sup>	60.55 <sup>266</sup>
17.4	35.818 <sup>152</sup>	60.84 <sup>190</sup>	23.507 <sup>102</sup>	9.26 <sup>120</sup>	33.67 <sup>51</sup>	43.92 <sup>280</sup>	38.644 <sup>195</sup>	63.21 <sup>231</sup>
27.4	35.666 <sup>180</sup>	62.74 <sup>169</sup>	23.405 <sup>120</sup>	10.46 <sup>115</sup>	33.16 <sup>60</sup>	46.72 <sup>241</sup>	38.449 <sup>233</sup>	65.52 <sup>191</sup>
Nov. 6.3	35.486 <sup>197</sup>	64.43 <sup>140</sup>	23.285 <sup>133</sup>	11.61 <sup>109</sup>	32.56 <sup>67</sup>	49.13 <sup>193</sup>	38.216 <sup>264</sup>	67.43 <sup>145</sup>
16.3	35.289 <sup>207</sup>	65.83 <sup>107</sup>	23.152 <sup>140</sup>	12.70 <sup>97</sup>	31.89 <sup>72</sup>	51.06 <sup>140</sup>	37.952 <sup>288</sup>	68.88 <sup>95</sup>
26.3	35.082 <sup>207</sup>	66.90 <sup>69</sup>	23.012 <sup>139</sup>	13.67 <sup>81</sup>	31.17 <sup>77</sup>	52.46 <sup>83</sup>	37.664 <sup>301</sup>	69.83 <sup>53</sup>
Dez. 6.3	34.875 <sup>198</sup>	67.58 <sup>29</sup>	22.873 <sup>134</sup>	14.48 <sup>63</sup>	30.40 <sup>78</sup>	53.29 <sup>21</sup>	37.363 <sup>307</sup>	70.26 <sup>13</sup>
16.2	34.677 <sup>184</sup>	67.87 <sup>14</sup>	22.739 <sup>123</sup>	15.11 <sup>42</sup>	29.62 <sup>78</sup>	53.50 <sup>41</sup>	37.056 <sup>304</sup>	70.13 <sup>67</sup>
26.2	34.493 <sup>162</sup>	67.73 <sup>54</sup>	22.616 <sup>110</sup>	15.53 <sup>21</sup>	28.84 <sup>75</sup>	53.09 <sup>102</sup>	36.752 <sup>289</sup>	69.46 <sup>121</sup>
36.2	34.331	67.19	22.506	15.74	28.09	52.07	36.463	68.25
Mittl. Ort sec $\delta$ , tg $\delta$	32.790 1.389	72.34 -0.964	20.590 1.075	26.36 -0.396	26.63 3.857	15.88 +3.725	34.097 1.824	34.63 +1.525

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	877) $\gamma$ Tucanae		879) $\gamma$ Sculptoris		880) $\tau$ Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	23 <sup>h</sup> 12 <sup>m</sup>	-58 <sup>o</sup> 39'	23 <sup>h</sup> 14 <sup>m</sup>	-32 <sup>o</sup> 56'	23 <sup>h</sup> 16 <sup>m</sup>	+23 <sup>o</sup> 19'
Jan. 1.2	54.561 <sub>252</sub>	44.79 <sub>125</sub>	39.109 <sub>125</sub>	76.53 <sub>29</sub>	49.089 <sub>123</sub>	14.39 <sub>128</sub>
11.2	54.309 <sub>212</sub>	43.54 <sub>171</sub>	38.984 <sub>105</sub>	76.24 <sub>62</sub>	48.966 <sub>108</sub>	13.11 <sub>146</sub>
21.1	54.097 <sub>166</sub>	41.83 <sub>212</sub>	38.879 <sub>80</sub>	75.62 <sub>93</sub>	48.858 <sub>88</sub>	11.65 <sub>159</sub>
31.1	53.931 <sub>115</sub>	39.71 <sub>248</sub>	38.799 <sub>52</sub>	74.69 <sub>122</sub>	48.770 <sub>64</sub>	10.06 <sub>166</sub>
Feb. 10.1	53.816 <sub>59</sub>	37.23 <sub>277</sub>	38.747 <sub>21</sub>	73.47 <sub>148</sub>	48.706 <sub>34</sub>	8.40 <sub>165</sub>
20.1	53.757 <sub>1</sub>	34.46 <sub>299</sub>	38.726 <sub>13</sub>	71.99 <sub>173</sub>	48.672 <sub>1</sub>	6.75 <sub>157</sub>
März 2.0	53.756 <sub>59</sub>	31.47 <sub>315</sub>	38.739 <sub>50</sub>	70.26 <sub>194</sub>	48.671 <sub>37</sub>	5.18 <sub>141</sub>
12.0	53.815 <sub>123</sub>	28.32 <sub>324</sub>	38.789 <sub>89</sub>	68.32 <sub>212</sub>	48.708 <sub>76</sub>	3.77 <sub>119</sub>
22.0	53.938 <sub>185</sub>	25.08 <sub>326</sub>	38.878 <sub>130</sub>	66.20 <sub>226</sub>	48.784 <sub>118</sub>	2.58 <sub>89</sub>
31.9	54.123 <sub>246</sub>	21.82 <sub>322</sub>	39.008 <sub>171</sub>	63.94 <sub>237</sub>	48.902 <sub>159</sub>	1.69 <sub>56</sub>
Apr. 10.9	54.369 <sub>306</sub>	18.60 <sub>309</sub>	39.179 <sub>211</sub>	61.57 <sub>242</sub>	49.061 <sub>199</sub>	1.13 <sub>19</sub>
20.9	54.675 <sub>361</sub>	15.51 <sub>291</sub>	39.390 <sub>248</sub>	59.15 <sub>242</sub>	49.260 <sub>237</sub>	0.94 <sub>21</sub>
30.9	55.036 <sub>409</sub>	12.60 <sub>267</sub>	39.638 <sub>282</sub>	56.73 <sub>238</sub>	49.497 <sub>267</sub>	1.15 <sub>60</sub>
Mai 10.8	55.445 <sub>450</sub>	9.93 <sub>235</sub>	39.920 <sub>311</sub>	54.35 <sub>227</sub>	49.764 <sub>293</sub>	1.75 <sub>99</sub>
20.8	55.895 <sub>482</sub>	7.58 <sub>199</sub>	40.231 <sub>331</sub>	52.08 <sub>211</sub>	50.057 <sub>311</sub>	2.74 <sub>134</sub>
30.8	56.377 <sub>501</sub>	5.59 <sub>158</sub>	40.562 <sub>345</sub>	49.97 <sub>191</sub>	50.368 <sub>320</sub>	4.08 <sub>166</sub>
Juni 9.8	56.878 <sub>508</sub>	4.01 <sub>114</sub>	40.907 <sub>350</sub>	48.06 <sub>164</sub>	50.688 <sub>321</sub>	5.74 <sub>193</sub>
19.7	57.386 <sub>503</sub>	2.87 <sub>65</sub>	41.257 <sub>345</sub>	46.42 <sub>133</sub>	51.009 <sub>313</sub>	7.67 <sub>215</sub>
29.7	57.889 <sub>483</sub>	2.22 <sub>15</sub>	41.602 <sub>331</sub>	45.09 <sub>100</sub>	51.322 <sub>297</sub>	9.82 <sub>231</sub>
Juli 9.7	58.372 <sub>451</sub>	2.07 <sub>34</sub>	41.933 <sub>309</sub>	44.09 <sub>63</sub>	51.619 <sub>274</sub>	12.13 <sub>242</sub>
19.6	58.823 <sub>406</sub>	2.41 <sub>82</sub>	42.242 <sub>278</sub>	43.46 <sub>25</sub>	51.893 <sub>243</sub>	14.55 <sub>245</sub>
29.6	59.229 <sub>349</sub>	3.23 <sub>129</sub>	42.520 <sub>240</sub>	43.21 <sub>13</sub>	52.136 <sub>207</sub>	17.00 <sub>244</sub>
Aug. 8.6	59.578 <sub>284</sub>	4.52 <sub>169</sub>	42.760 <sub>196</sub>	43.34 <sub>48</sub>	52.343 <sub>168</sub>	19.44 <sub>237</sub>
18.6	59.862 <sub>210</sub>	6.21 <sub>205</sub>	42.956 <sub>149</sub>	43.82 <sub>83</sub>	52.511 <sub>126</sub>	21.81 <sub>226</sub>
28.5	60.072 <sub>132</sub>	8.26 <sub>232</sub>	43.105 <sub>100</sub>	44.65 <sub>112</sub>	52.637 <sub>84</sub>	24.07 <sub>210</sub>
Sept. 7.5	60.204 <sub>54</sub>	10.58 <sub>252</sub>	43.205 <sub>50</sub>	45.77 <sub>136</sub>	52.721 <sub>41</sub>	26.17 <sub>190</sub>
17.5	60.258 <sub>25</sub>	13.10 <sub>260</sub>	43.255 <sub>2</sub>	47.13 <sub>155</sub>	52.762 <sub>3</sub>	28.07 <sub>169</sub>
27.5	60.233 <sub>98</sub>	15.70 <sub>260</sub>	43.257 <sub>42</sub>	48.68 <sub>165</sub>	52.765 <sub>34</sub>	29.76 <sub>143</sub>
Okt. 7.4	60.135 <sub>164</sub>	18.30 <sub>249</sub>	43.215 <sub>78</sub>	50.33 <sub>169</sub>	52.731 <sub>65</sub>	31.19 <sub>117</sub>
17.4	59.971 <sub>221</sub>	20.79 <sub>227</sub>	43.137 <sub>111</sub>	52.02 <sub>165</sub>	52.666 <sub>91</sub>	32.36 <sub>90</sub>
27.4	59.750 <sub>265</sub>	23.06 <sub>196</sub>	43.026 <sub>135</sub>	53.67 <sub>154</sub>	52.575 <sub>111</sub>	33.26 <sub>59</sub>
Nov. 6.3	59.485 <sub>297</sub>	25.02 <sub>157</sub>	42.891 <sub>152</sub>	55.21 <sub>136</sub>	52.464 <sub>127</sub>	33.85 <sub>30</sub>
16.3	59.188 <sub>316</sub>	26.59 <sub>112</sub>	42.739 <sub>161</sub>	56.57 <sub>114</sub>	52.337 <sub>137</sub>	34.15 <sub>0</sub>
26.3	58.872 <sub>321</sub>	27.71 <sub>63</sub>	42.578 <sub>163</sub>	57.71 <sub>86</sub>	52.200 <sub>142</sub>	34.15 <sub>31</sub>
Dez. 6.3	58.551 <sub>315</sub>	28.34 <sub>10</sub>	42.415 <sub>159</sub>	58.57 <sub>56</sub>	52.058 <sub>142</sub>	33.84 <sub>60</sub>
16.2	58.236 <sub>297</sub>	28.44 <sub>43</sub>	42.256 <sub>149</sub>	59.13 <sub>23</sub>	51.916 <sub>138</sub>	33.24 <sub>89</sub>
26.2	57.939 <sub>270</sub>	28.01 <sub>94</sub>	42.107 <sub>135</sub>	59.36 <sub>9</sub>	51.778 <sub>131</sub>	32.35 <sub>113</sub>
36.2	57.669	27.07	41.972	59.27	51.647	31.22
Mittl. Ort secd, tg $\delta$	56.643 1.922	29.28 -1.642	40.179 1.192	66.37 -0.648	49.399 1.089	6.79 +0.431



Mittlere Zeit Greenw.	882) 4 Cassiopeiae		884) x Piscium		885) 70 Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	23 <sup>h</sup> 21 <sup>m</sup>	+61° 51'	23 <sup>h</sup> 22 <sup>m</sup>	+0° 49'	23 <sup>h</sup> 25 <sup>m</sup>	+12° 20'
1923						
Jan. I.2	24.77 <sup>35</sup>	52.97 <sup>134</sup>	58.599 <sup>102</sup>	61.78 <sup>79</sup>	15.163 <sup>110</sup>	11.51 <sup>104</sup>
II.2	24.42 <sup>32</sup>	51.63 <sup>185</sup>	58.497 <sup>88</sup>	60.99 <sup>76</sup>	15.053 <sup>97</sup>	10.47 <sup>113</sup>
2I.I	24.10 <sup>28</sup>	49.78 <sup>227</sup>	58.409 <sup>70</sup>	60.23 <sup>70</sup>	14.956 <sup>80</sup>	9.34 <sup>116</sup>
3I.I	23.82 <sup>22</sup>	47.51 <sup>262</sup>	58.339 <sup>50</sup>	59.53 <sup>60</sup>	14.876 <sup>59</sup>	8.18 <sup>115</sup>
Feb. IO.I	23.60 <sup>16</sup>	44.89 <sup>285</sup>	58.289 <sup>25</sup>	58.93 <sup>47</sup>	14.817 <sup>33</sup>	7.03 <sup>108</sup>
20.I	23.44 <sup>8</sup>	42.04 <sup>297</sup>	58.264 <sup>3</sup>	58.46 <sup>29</sup>	14.784 <sup>2</sup>	5.95 <sup>96</sup>
März 2.0	23.36 <sup>0</sup>	39.07 <sup>298</sup>	58.267 <sup>36</sup>	58.17 <sup>9</sup>	14.782 <sup>30</sup>	4.99 <sup>77</sup>
12.0	23.36 <sup>9</sup>	36.09 <sup>285</sup>	58.303 <sup>70</sup>	58.08 <sup>14</sup>	14.812 <sup>67</sup>	4.22 <sup>55</sup>
22.0	23.45 <sup>17</sup>	33.24 <sup>262</sup>	58.373 <sup>107</sup>	58.22 <sup>41</sup>	14.879 <sup>106</sup>	3.67 <sup>28</sup>
3I.9	23.62 <sup>26</sup>	30.62 <sup>228</sup>	58.480 <sup>145</sup>	58.63 <sup>67</sup>	14.985 <sup>145</sup>	3.39 <sup>3</sup>
Apr. IO.9	23.88 <sup>33</sup>	28.34 <sup>186</sup>	58.625 <sup>181</sup>	59.30 <sup>94</sup>	15.130 <sup>183</sup>	3.42 <sup>35</sup>
20.9	24.21 <sup>40</sup>	26.48 <sup>138</sup>	58.806 <sup>216</sup>	60.24 <sup>119</sup>	15.313 <sup>219</sup>	3.77 <sup>67</sup>
30.9	24.61 <sup>45</sup>	25.10 <sup>84</sup>	59.022 <sup>246</sup>	61.43 <sup>144</sup>	15.532 <sup>250</sup>	4.44 <sup>100</sup>
Mai IO.8	25.06 <sup>49</sup>	24.26 <sup>28</sup>	59.268 <sup>272</sup>	62.87 <sup>163</sup>	15.782 <sup>276</sup>	5.44 <sup>130</sup>
20.8	25.55 <sup>52</sup>	23.98 <sup>28</sup>	59.540 <sup>291</sup>	64.50 <sup>180</sup>	16.058 <sup>295</sup>	6.74 <sup>156</sup>
30.8	26.07 <sup>53</sup>	24.26 <sup>84</sup>	59.831 <sup>302</sup>	66.30 <sup>191</sup>	16.353 <sup>307</sup>	8.30 <sup>178</sup>
Juni 9.8	26.60 <sup>53</sup>	25.10 <sup>137</sup>	60.133 <sup>306</sup>	68.21 <sup>197</sup>	16.660 <sup>309</sup>	10.08 <sup>196</sup>
19.7	27.13 <sup>51</sup>	26.47 <sup>185</sup>	60.439 <sup>301</sup>	70.18 <sup>198</sup>	16.969 <sup>305</sup>	12.04 <sup>208</sup>
29.7	27.64 <sup>48</sup>	28.32 <sup>230</sup>	60.740 <sup>288</sup>	72.16 <sup>194</sup>	17.274 <sup>291</sup>	14.12 <sup>215</sup>
Juli 9.7	28.12 <sup>43</sup>	30.62 <sup>267</sup>	61.028 <sup>269</sup>	74.10 <sup>185</sup>	17.565 <sup>271</sup>	16.27 <sup>215</sup>
19.6	28.55 <sup>38</sup>	33.29 <sup>298</sup>	61.297 <sup>241</sup>	75.95 <sup>170</sup>	17.836 <sup>243</sup>	18.42 <sup>211</sup>
29.6	28.93 <sup>32</sup>	36.27 <sup>323</sup>	61.538 <sup>209</sup>	77.65 <sup>153</sup>	18.079 <sup>210</sup>	20.53 <sup>202</sup>
Aug. 8.6	29.25 <sup>26</sup>	39.50 <sup>340</sup>	61.747 <sup>173</sup>	79.18 <sup>131</sup>	18.289 <sup>173</sup>	22.55 <sup>188</sup>
18.6	29.51 <sup>18</sup>	42.90 <sup>350</sup>	61.920 <sup>133</sup>	80.49 <sup>110</sup>	18.462 <sup>133</sup>	24.43 <sup>171</sup>
28.5	29.69 <sup>10</sup>	46.40 <sup>352</sup>	62.053 <sup>92</sup>	81.59 <sup>85</sup>	18.595 <sup>93</sup>	26.14 <sup>152</sup>
Sept. 7.5	29.79 <sup>4</sup>	49.92 <sup>347</sup>	62.145 <sup>53</sup>	82.44 <sup>61</sup>	18.688 <sup>53</sup>	27.66 <sup>129</sup>
17.5	29.83 <sup>4</sup>	53.39 <sup>336</sup>	62.198 <sup>15</sup>	83.05 <sup>38</sup>	18.741 <sup>15</sup>	28.95 <sup>107</sup>
27.5	29.79 <sup>10</sup>	56.75 <sup>316</sup>	62.213 <sup>20</sup>	83.43 <sup>15</sup>	18.756 <sup>19</sup>	30.02 <sup>83</sup>
Okt. 7.4	29.69 <sup>17</sup>	59.91 <sup>289</sup>	62.193 <sup>50</sup>	83.58 <sup>4</sup>	18.737 <sup>50</sup>	30.85 <sup>60</sup>
17.4	29.52 <sup>22</sup>	62.80 <sup>257</sup>	62.143 <sup>75</sup>	83.54 <sup>22</sup>	18.687 <sup>75</sup>	31.45 <sup>36</sup>
27.4	29.30 <sup>27</sup>	65.37 <sup>219</sup>	62.068 <sup>94</sup>	83.32 <sup>38</sup>	18.612 <sup>95</sup>	31.81 <sup>13</sup>
Nov. 6.3	29.03 <sup>31</sup>	67.56 <sup>173</sup>	61.974 <sup>108</sup>	82.94 <sup>51</sup>	18.517 <sup>110</sup>	31.94 <sup>8</sup>
16.3	28.72 <sup>35</sup>	69.29 <sup>123</sup>	61.866 <sup>117</sup>	82.43 <sup>61</sup>	18.407 <sup>120</sup>	31.86 <sup>29</sup>
26.3	28.37 <sup>36</sup>	70.52 <sup>70</sup>	61.749 <sup>120</sup>	81.82 <sup>69</sup>	18.287 <sup>125</sup>	31.57 <sup>49</sup>
Dez. 6.3	28.01 <sup>38</sup>	71.22 <sup>13</sup>	61.629 <sup>120</sup>	81.13 <sup>75</sup>	18.162 <sup>126</sup>	31.08 <sup>68</sup>
16.2	27.63 <sup>38</sup>	71.35 <sup>44</sup>	61.509 <sup>116</sup>	80.38 <sup>79</sup>	18.036 <sup>123</sup>	30.40 <sup>83</sup>
26.2	27.25 <sup>37</sup>	70.91 <sup>101</sup>	61.393 <sup>107</sup>	79.59 <sup>79</sup>	17.913 <sup>116</sup>	29.57 <sup>97</sup>
36.2	26.88	69.90	61.286	78.80	17.797	28.60
Mittl. Ort sec δ, tg δ	24.58 2.120	35.49 +1.870	59.103 1.000	61.87 +0.015	15.531 1.024	7.80 +0.219

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	891) $\epsilon$ Andromedae		892) $\epsilon$ Piscium		893) $\gamma$ Cephei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	23 <sup>h</sup> 34 <sup>m</sup>	+42° 50'	23 <sup>h</sup> 35 <sup>m</sup>	+5° 12'	23 <sup>h</sup> 36 <sup>m</sup>	+77° 11'
Jan. I.2	21.298 <sup>192</sup>	42.57 <sup>128</sup>	58.947 <sup>108</sup>	32.28 <sup>88</sup>	11.60 <sup>89</sup>	88.64 <sup>93</sup>
II.2	21.106 <sup>177</sup>	41.29 <sup>165</sup>	58.839 <sup>96</sup>	31.40 <sup>90</sup>	10.71 <sup>82</sup>	87.71 <sup>151</sup>
21.I	20.929 <sup>154</sup>	39.64 <sup>196</sup>	58.743 <sup>82</sup>	30.50 <sup>86</sup>	9.89 <sup>73</sup>	86.20 <sup>205</sup>
31.I	20.775 <sup>124</sup>	37.68 <sup>220</sup>	58.661 <sup>62</sup>	29.64 <sup>80</sup>	9.16 <sup>61</sup>	84.15 <sup>250</sup>
Feb. 10.I	20.651 <sup>86</sup>	35.48 <sup>234</sup>	58.599 <sup>38</sup>	28.84 <sup>70</sup>	8.55 <sup>47</sup>	81.65 <sup>284</sup>
20.I	20.565 <sup>44</sup>	33.14 <sup>238</sup>	58.561 <sup>10</sup>	28.14 <sup>55</sup>	8.08 <sup>30</sup>	78.81 <sup>308</sup>
März 2.0	20.521 <sup>6</sup>	30.76 <sup>233</sup>	58.551 <sup>22</sup>	27.59 <sup>35</sup>	7.78 <sup>12</sup>	75.73 <sup>318</sup>
12.0	20.527 <sup>58</sup>	28.43 <sup>218</sup>	58.573 <sup>57</sup>	27.24 <sup>13</sup>	7.66 <sup>7</sup>	72.55 <sup>316</sup>
22.0	20.585 <sup>112</sup>	26.25 <sup>192</sup>	58.630 <sup>95</sup>	27.11 <sup>13</sup>	7.73 <sup>25</sup>	69.39 <sup>301</sup>
Apr. 1.0	20.697 <sup>166</sup>	24.33 <sup>160</sup>	58.725 <sup>133</sup>	27.24 <sup>40</sup>	7.98 <sup>43</sup>	66.38 <sup>276</sup>
10.9	20.863 <sup>219</sup>	22.73 <sup>120</sup>	58.858 <sup>172</sup>	27.64 <sup>70</sup>	8.41 <sup>59</sup>	63.62 <sup>239</sup>
20.9	21.082 <sup>266</sup>	21.53 <sup>75</sup>	59.030 <sup>208</sup>	28.34 <sup>98</sup>	9.00 <sup>73</sup>	61.23 <sup>195</sup>
30.9	21.348 <sup>305</sup>	20.78 <sup>28</sup>	59.238 <sup>240</sup>	29.32 <sup>124</sup>	9.73 <sup>85</sup>	59.28 <sup>143</sup>
Mai 10.8	21.653 <sup>340</sup>	20.50 <sup>21</sup>	59.478 <sup>267</sup>	30.56 <sup>148</sup>	10.58 <sup>94</sup>	57.85 <sup>88</sup>
20.8	21.993 <sup>362</sup>	20.71 <sup>68</sup>	59.745 <sup>288</sup>	32.04 <sup>169</sup>	11.52 <sup>99</sup>	56.97 <sup>30</sup>
30.8	22.355 <sup>375</sup>	21.39 <sup>116</sup>	60.033 <sup>302</sup>	33.73 <sup>185</sup>	12.51 <sup>103</sup>	56.67 <sup>28</sup>
Juni 9.8	22.730 <sup>379</sup>	22.55 <sup>158</sup>	60.335 <sup>307</sup>	35.58 <sup>195</sup>	13.54 <sup>102</sup>	56.95 <sup>86</sup>
19.7	23.109 <sup>371</sup>	24.13 <sup>196</sup>	60.642 <sup>304</sup>	37.53 <sup>201</sup>	14.56 <sup>99</sup>	57.81 <sup>140</sup>
29.7	23.480 <sup>353</sup>	26.09 <sup>229</sup>	60.946 <sup>293</sup>	39.54 <sup>200</sup>	15.55 <sup>94</sup>	59.21 <sup>191</sup>
Juli 9.7	23.833 <sup>327</sup>	28.38 <sup>256</sup>	61.239 <sup>275</sup>	41.54 <sup>196</sup>	16.49 <sup>86</sup>	61.12 <sup>237</sup>
19.7	24.160 <sup>293</sup>	30.94 <sup>277</sup>	61.514 <sup>249</sup>	43.50 <sup>186</sup>	17.35 <sup>76</sup>	63.49 <sup>277</sup>
29.6	24.453 <sup>252</sup>	33.71 <sup>292</sup>	61.763 <sup>219</sup>	45.36 <sup>171</sup>	18.11 <sup>64</sup>	66.26 <sup>311</sup>
Aug. 8.6	24.705 <sup>208</sup>	36.63 <sup>299</sup>	61.982 <sup>183</sup>	47.07 <sup>154</sup>	18.75 <sup>51</sup>	69.37 <sup>337</sup>
18.6	24.913 <sup>160</sup>	39.62 <sup>300</sup>	62.165 <sup>144</sup>	48.61 <sup>133</sup>	19.26 <sup>37</sup>	72.74 <sup>357</sup>
28.5	25.073 <sup>111</sup>	42.62 <sup>295</sup>	62.309 <sup>105</sup>	49.94 <sup>110</sup>	19.63 <sup>23</sup>	76.31 <sup>369</sup>
Sept. 7.5	25.184 <sup>60</sup>	45.57 <sup>285</sup>	62.414 <sup>66</sup>	51.04 <sup>87</sup>	19.86 <sup>9</sup>	80.00 <sup>374</sup>
17.5	25.244 <sup>13</sup>	48.42 <sup>268</sup>	62.480 <sup>28</sup>	51.91 <sup>64</sup>	19.95 <sup>7</sup>	83.74 <sup>370</sup>
27.5	25.257 <sup>30</sup>	51.10 <sup>247</sup>	62.508 <sup>7</sup>	52.55 <sup>41</sup>	19.88 <sup>21</sup>	87.44 <sup>359</sup>
Okt. 7.4	25.227 <sup>70</sup>	53.57 <sup>221</sup>	62.501 <sup>37</sup>	52.96 <sup>19</sup>	19.67 <sup>34</sup>	91.03 <sup>340</sup>
17.4	25.157 <sup>106</sup>	55.78 <sup>190</sup>	62.464 <sup>64</sup>	53.15 <sup>1</sup>	19.33 <sup>47</sup>	94.43 <sup>312</sup>
27.4	25.051 <sup>136</sup>	57.68 <sup>155</sup>	62.400 <sup>84</sup>	53.14 <sup>19</sup>	18.86 <sup>60</sup>	97.55 <sup>278</sup>
Nov. 6.4	24.915 <sup>161</sup>	59.23 <sup>117</sup>	62.316 <sup>100</sup>	52.95 <sup>36</sup>	18.26 <sup>70</sup>	100.33 <sup>235</sup>
16.3	24.754 <sup>180</sup>	60.40 <sup>75</sup>	62.216 <sup>111</sup>	52.59 <sup>49</sup>	17.56 <sup>79</sup>	102.68 <sup>186</sup>
26.3	24.574 <sup>194</sup>	61.15 <sup>31</sup>	62.105 <sup>117</sup>	52.10 <sup>62</sup>	16.77 <sup>86</sup>	104.54 <sup>131</sup>
Dez. 6.3	24.380 <sup>202</sup>	61.46 <sup>14</sup>	61.988 <sup>120</sup>	51.48 <sup>72</sup>	15.91 <sup>90</sup>	105.85 <sup>71</sup>
16.2	24.178 <sup>203</sup>	61.32 <sup>59</sup>	61.868 <sup>117</sup>	50.76 <sup>80</sup>	15.01 <sup>93</sup>	106.56 <sup>9</sup>
26.2	23.975 <sup>199</sup>	60.73 <sup>102</sup>	61.751 <sup>113</sup>	49.96 <sup>86</sup>	14.08 <sup>91</sup>	106.65 <sup>54</sup>
36.2	23.776	59.71	61.638	49.10	13.17	106.11
Mittl. Ort sec $\delta$ , tg $\delta$	21.277 1.364	29.69 +0.927	59.329 1.004	31.41 +0.091	10.43 4.515	69.25 +4.402

Mittlere Zeit Greenw.	894) $\omega^2$ Aquarii		895) $\gamma$ H. Cephei		896) Lac. $\delta$ Sculptoris	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1923	$23^h 38^m$	$-14^\circ 57'$	$23^h 44^m$	$+67^\circ 22'$	$23^h 44^m$	$-28^\circ 32'$
Jan. 1.2	43.222 III	80.88 38	13.72 47	62.08 99	54.262 133	93.03 3
II.2	43.111 100	81.26 20	13.25 44	61.09 153	54.129 119	93.06 29
21.2	43.011 83	81.46 0	12.81 39	59.56 203	54.010 101	92.77 59
31.1	42.928 63	81.46 22	12.42 33	57.53 244	53.909 79	92.18 90
Feb. 10.1	42.865 39	81.24 43	12.09 26	55.09 276	53.830 52	91.28 118
20.1	42.826 10	80.81 67	11.83 17	52.33 296	53.778 21	90.10 144
März 2.0	42.816 21	80.14 89	11.66 6	49.37 304	53.757 12	88.66 170
12.0	42.837 55	79.25 112	11.60 4	46.33 299	53.769 50	86.96 191
22.0	42.892 94	78.13 135	11.64 14	43.34 284	53.819 91	85.05 209
Apr. 1.0	42.986 131	76.78 154	11.78 25	40.50 256	53.910 132	82.96 225
10.9	43.117 170	75.24 173	12.03 35	37.94 220	54.042 173	80.71 236
20.9	43.287 207	73.51 189	12.38 44	35.74 176	54.215 213	78.35 242
30.9	43.494 240	71.62 200	12.82 51	33.98 125	54.428 249	75.93 243
Mai 10.9	43.734 269	69.62 207	13.33 56	32.73 70	54.677 282	73.50 238
20.8	44.003 291	67.55 208	13.89 61	32.03 14	54.959 307	71.12 229
30.8	44.294 306	65.47 205	14.50 63	31.89 42	55.266 325	68.83 212
Juni 9.8	44.600 314	63.42 197	15.13 63	32.31 98	55.591 335	66.71 191
19.7	44.914 313	61.45 182	15.76 63	33.29 150	55.926 336	64.80 165
29.7	45.227 303	59.63 162	16.39 59	34.79 197	56.262 328	63.15 134
Juli 9.7	45.530 287	58.01 141	16.98 54	36.76 241	56.590 312	61.81 99
19.7	45.817 261	56.60 113	17.52 49	39.17 278	56.902 286	60.82 63
29.6	46.078 230	55.47 85	18.01 42	41.95 308	57.188 254	60.19 26
Aug. 8.6	46.308 194	54.62 54	18.43 35	45.03 331	57.442 216	59.93 13
18.6	46.502 155	54.08 24	18.78 27	48.34 349	57.658 174	60.06 48
28.6	46.657 113	53.84 6	19.05 18	51.83 357	57.832 128	60.54 81
Sept. 7.5	46.770 71	53.90 33	19.23 9	55.40 359	57.960 83	61.35 110
17.5	46.841 31	54.23 56	19.32 1	58.99 353	58.043 37	62.45 133
27.5	46.872 6	54.79 76	19.33 8	62.52 340	58.080 5	63.78 151
Okt. 7.4	46.866 39	55.55 92	19.25 15	65.92 319	58.075 43	65.29 160
17.4	46.827 68	56.47 101	19.10 23	69.11 291	58.032 76	66.89 163
27.4	46.759 90	57.48 105	18.87 30	72.02 256	57.956 103	68.52 158
Nov. 6.4	46.669 106	58.53 106	18.57 35	74.58 215	57.853 123	70.10 147
16.3	46.563 119	59.59 101	18.22 41	76.73 167	57.730 138	71.57 130
26.3	46.444 124	60.60 92	17.81 44	78.40 113	57.592 145	72.87 107
Dez. 6.3	46.320 126	61.52 81	17.37 47	79.53 57	57.447 148	73.94 81
16.3	46.194 123	62.33 66	16.90 48	80.10 2	57.299 145	74.75 53
26.2	46.071 116	62.99 49	16.42 48	80.08 62	57.154 138	75.28 22
36.2	45.955	63.48	15.94	79.46	57.016	75.50
Mittl. Ort	43.833	74.78	13.05	44.13	55.048	82.40
sec $\delta$ , tg $\delta$	1.035	-0.267	2.600	+2.400	1.139	-0.544



Mittlere Zeit Greenw.	898) $\varphi$ Pegasi		902) $\omega$ Piscium		903) $\epsilon$ Tucanae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
<b>Bibl. Jag.</b> 1923	23 <sup>h</sup> 48 <sup>m</sup>	+18° 41'	23 <sup>h</sup> 55 <sup>m</sup>	+6° 26'	23 <sup>h</sup> 55 <sup>m</sup>	-65° 59'
Jan. 1.2	33.920 <sub>126</sub>	38.13 <sub>103</sub>	21.104 <sub>115</sub>	13.69 <sub>85</sub>	53.33 <sub>40</sub>	99.40 <sub>100</sub>
11.2	33.794 <sub>117</sub>	37.10 <sub>119</sub>	20.989 <sub>107</sub>	12.84 <sub>88</sub>	52.93 <sub>37</sub>	98.40 <sub>155</sub>
21.2	33.677 <sub>103</sub>	35.91 <sub>129</sub>	20.882 <sub>95</sub>	11.96 <sub>86</sub>	52.56 <sub>32</sub>	96.85 <sub>205</sub>
31.1	33.574 <sub>84</sub>	34.62 <sub>134</sub>	20.787 <sub>78</sub>	11.10 <sub>81</sub>	52.24 <sub>26</sub>	94.80 <sub>247</sub>
Feb. 10.1	33.490 <sub>60</sub>	33.28 <sub>132</sub>	20.709 <sub>57</sub>	10.29 <sub>72</sub>	51.98 <sub>20</sub>	92.33 <sub>284</sub>
20.1	33.430 <sub>29</sub>	31.96 <sub>126</sub>	20.652 <sub>30</sub>	9.57 <sub>58</sub>	51.78 <sub>13</sub>	89.49 <sub>313</sub>
März 2.1	33.401 <sub>4</sub>	30.70 <sub>112</sub>	20.622 <sub>2</sub>	8.99 <sub>41</sub>	51.65 <sub>6</sub>	86.36 <sub>336</sub>
12.0	33.405 <sub>42</sub>	29.58 <sub>92</sub>	20.624 <sub>37</sub>	8.58 <sub>19</sub>	51.59 <sub>3</sub>	83.00 <sub>349</sub>
22.0	33.447 <sub>84</sub>	28.66 <sub>67</sub>	20.661 <sub>75</sub>	8.39 <sub>7</sub>	51.62 <sub>11</sub>	79.51 <sub>357</sub>
Apr. 1.0	33.531 <sub>125</sub>	27.99 <sub>37</sub>	20.736 <sub>115</sub>	8.46 <sub>33</sub>	51.73 <sub>19</sub>	75.94 <sub>356</sub>
10.9	33.656 <sub>167</sub>	27.62 <sub>5</sub>	20.851 <sub>155</sub>	8.79 <sub>61</sub>	51.92 <sub>28</sub>	72.38 <sub>346</sub>
20.9	33.823 <sub>207</sub>	27.57 <sub>31</sub>	21.006 <sub>193</sub>	9.40 <sub>90</sub>	52.20 <sub>35</sub>	68.92 <sub>331</sub>
30.9	34.030 <sub>241</sub>	27.88 <sub>65</sub>	21.199 <sub>227</sub>	10.30 <sub>117</sub>	52.55 <sub>42</sub>	65.61 <sub>307</sub>
Mai 10.9	34.271 <sub>272</sub>	28.53 <sub>99</sub>	21.426 <sub>258</sub>	11.47 <sub>142</sub>	52.97 <sub>49</sub>	62.54 <sub>277</sub>
20.8	34.543 <sub>294</sub>	29.52 <sub>131</sub>	21.684 <sub>281</sub>	12.89 <sub>163</sub>	53.46 <sub>54</sub>	59.77 <sub>240</sub>
30.8	34.837 <sub>310</sub>	30.83 <sub>159</sub>	21.965 <sub>298</sub>	14.52 <sub>181</sub>	54.00 <sub>57</sub>	57.37 <sub>197</sub>
Juni 9.8	35.147 <sub>316</sub>	32.42 <sub>183</sub>	22.263 <sub>305</sub>	16.33 <sub>193</sub>	54.57 <sub>61</sub>	55.40 <sub>150</sub>
19.8	35.463 <sub>315</sub>	34.25 <sub>202</sub>	22.568 <sub>307</sub>	18.26 <sub>200</sub>	55.18 <sub>61</sub>	53.90 <sub>100</sub>
29.7	35.778 <sub>304</sub>	36.27 <sub>214</sub>	22.875 <sub>298</sub>	20.26 <sub>202</sub>	55.79 <sub>61</sub>	52.90 <sub>45</sub>
Juli 9.7	36.082 <sub>286</sub>	38.41 <sub>223</sub>	23.173 <sub>283</sub>	22.28 <sub>198</sub>	56.40 <sub>59</sub>	52.45 <sub>9</sub>
19.7	36.368 <sub>262</sub>	40.64 <sub>224</sub>	23.456 <sub>260</sub>	24.26 <sub>190</sub>	56.99 <sub>55</sub>	52.54 <sub>63</sub>
29.6	36.630 <sub>230</sub>	42.88 <sub>222</sub>	23.716 <sub>232</sub>	26.16 <sub>177</sub>	57.54 <sub>49</sub>	53.17 <sub>115</sub>
Aug. 8.6	36.860 <sub>196</sub>	45.10 <sub>213</sub>	23.948 <sub>198</sub>	27.93 <sub>161</sub>	58.03 <sub>42</sub>	54.32 <sub>164</sub>
18.6	37.056 <sub>157</sub>	47.23 <sub>201</sub>	24.146 <sub>162</sub>	29.54 <sub>141</sub>	58.45 <sub>34</sub>	55.96 <sub>206</sub>
28.6	37.213 <sub>117</sub>	49.24 <sub>185</sub>	24.308 <sub>123</sub>	30.95 <sub>119</sub>	58.79 <sub>25</sub>	58.02 <sub>242</sub>
Sept. 7.5	37.330 <sub>77</sub>	51.09 <sub>166</sub>	24.431 <sub>85</sub>	32.14 <sub>96</sub>	59.04 <sub>15</sub>	60.44 <sub>269</sub>
17.5	37.407 <sub>39</sub>	52.75 <sub>145</sub>	24.516 <sub>47</sub>	33.10 <sub>72</sub>	59.19 <sub>5</sub>	63.13 <sub>287</sub>
27.5	37.446 <sub>3</sub>	54.20 <sub>123</sub>	24.563 <sub>12</sub>	33.82 <sub>50</sub>	59.24 <sub>4</sub>	66.00 <sub>292</sub>
Okt. 7.5	37.449 <sub>29</sub>	55.43 <sub>98</sub>	24.575 <sub>19</sub>	34.32 <sub>27</sub>	59.20 <sub>14</sub>	68.92 <sub>286</sub>
17.4	37.420 <sub>58</sub>	56.41 <sub>73</sub>	24.556 <sub>47</sub>	34.59 <sub>8</sub>	59.06 <sub>22</sub>	71.78 <sub>270</sub>
27.4	37.362 <sub>80</sub>	57.14 <sub>49</sub>	24.509 <sub>69</sub>	34.67 <sub>12</sub>	58.84 <sub>29</sub>	74.48 <sub>242</sub>
Nov. 6.4	37.282 <sub>99</sub>	57.63 <sub>23</sub>	24.440 <sub>88</sub>	34.55 <sub>28</sub>	58.55 <sub>35</sub>	76.90 <sub>204</sub>
16.3	37.183 <sub>114</sub>	57.86 <sub>2</sub>	24.352 <sub>101</sub>	34.27 <sub>44</sub>	58.20 <sub>40</sub>	78.94 <sub>159</sub>
26.3	37.069 <sub>123</sub>	57.84 <sub>26</sub>	24.251 <sub>111</sub>	33.83 <sub>56</sub>	57.80 <sub>43</sub>	80.53 <sub>107</sub>
Dec. 6.3	36.946 <sub>130</sub>	57.58 <sub>50</sub>	24.140 <sub>118</sub>	33.27 <sub>67</sub>	57.37 <sub>44</sub>	81.60 <sub>50</sub>
16.3	36.816 <sub>131</sub>	57.08 <sub>72</sub>	24.022 <sub>119</sub>	32.60 <sub>75</sub>	56.93 <sub>43</sub>	82.10 <sub>8</sub>
26.2	36.685 <sub>129</sub>	56.36 <sub>92</sub>	23.903 <sub>117</sub>	31.85 <sub>83</sub>	56.50 <sub>42</sub>	82.02 <sub>66</sub>
36.2	36.556	55.44	23.786	31.02	56.08	81.36
Mittl. Ort sec $\delta$ , tg $\delta$	34.082 1.055	33.13 +0.338	21.360 1.006	13.19 +0.113	55.48 2.459	80.15 -2.247

Tag	43 Hov. Cephei 4 <sup>m</sup> .3				α Ursae minoris 2 <sup>m</sup> .0				Gr. 750 6 <sup>m</sup> .8			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	0 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+85° 50'	in 0.01	1 <sup>h</sup> 33 <sup>m</sup>	in 0.01	+88° 53'	in 0.01	4 <sup>h</sup> 11 <sup>m</sup>	in 0.01	+85° 21'	in 0.01
Jan. 0	65.98	+2	58.82	-8	60.13	+7	49.55	-8	65.47	-4	7.84	-8
1	65.69	+5	58.90	-6	59.08	+16	49.68	-6	65.36	-1	8.13	-8
2	65.40	+6	58.97	-3	58.02	+23	49.81	-4	65.24	+2	8.41	-7
3	65.11	+6	59.04	+1	56.96	+23	49.93	0	65.12	+5	8.69	-4
4	64.82	+5	59.10	+4	55.89	+18	50.05	+4	64.99	+6	8.97	0
5	64.52	+2	59.15	+6	54.81	+8	50.16	+6	64.86	+5	9.24	+3
6	64.23	-2	59.19	+6	53.72	-5	50.26	+6	64.72	+3	9.51	+6
7	63.94	-5	59.23	+5	52.63	-17	50.35	+6	64.58	0	9.78	+7
8	63.64	-7	59.26	+2	51.53	-25	50.44	+3	64.44	-3	10.04	+7
9	63.35	-7	59.29	-2	50.43	-27	50.53	0	64.29	-6	10.30	+4
10	63.06	-6	59.31	-4	49.32	-22	50.61	-3	64.14	-7	10.56	+1
11	62.77	-3	59.32	-6	48.21	-12	50.68	-6	63.98	-6	10.81	-3
12	62.47	+1	59.33	-6	47.09	+2	50.74	-6	63.82	-3	11.06	-5
13	62.18	+4	59.33	-4	45.97	+15	50.80	-5	63.66	0	11.30	-7
14	61.88	+7	59.33	-1	44.84	+24	50.85	-2	63.49	+4	11.54	-6
15	61.59	+8	59.31	+2	43.71	+29	50.90	+1	63.31	+7	11.77	-4
16	61.29	+7	59.29	+5	42.58	+27	50.94	+4	63.13	+8	12.00	-1
17	60.99	+5	59.27	+8	41.45	+20	50.97	+7	62.95	+8	12.23	+2
18	60.70	+3	59.24	+8	40.32	+11	51.00	+8	62.76	+7	12.45	+5
19	60.41	0	59.20	+8	39.19	0	51.02	+8	62.57	+5	12.67	+6
20	60.11	-3	59.15	+6	38.06	-10	51.03	+7	62.38	+2	12.88	+7
21	59.82	-5	59.10	+4	36.92	-18	51.03	+5	62.18	-1	13.08	+7
22	59.53	-6	59.04	+1	35.79	-22	51.03	+2	61.98	-4	13.28	+5
23	59.24	-6	58.97	-2	34.65	-23	51.02	-1	61.78	-6	13.48	+3
24	58.95	-6	58.90	-5	33.52	-21	51.01	-4	61.57	-7	13.67	0
25	58.66	-4	58.82	-7	32.39	-16	50.99	-7	61.36	-7	13.85	-3
26	58.37	-2	58.73	-9	31.26	-7	50.96	-8	61.15	-7	14.03	-6
27	58.09	+1	58.64	-8	30.14	+3	50.93	-9	60.93	-5	14.20	-7
28	57.80	+4	58.55	-7	29.01	+12	50.89	-8	60.71	-2	14.37	-8
29	57.52	+6	58.45	-4	27.89	+20	50.84	-5	60.49	+1	14.53	-7
30	57.24	+6	58.34	-1	26.77	+22	50.79	-2	60.26	+3	14.69	-5
31	56.96	+6	58.23	+2	25.66	+20	50.73	+2	60.03	+5	14.84	-2
Febr. 1	56.68	+3	58.11	+5	24.55	+12	50.66	+5	59.80	+5	14.99	+2
2	56.41	0	57.98	+6	23.45	0	50.59	+6	59.56	+4	15.13	+5
3	56.14	-3	57.85	+6	22.35	-12	50.51	+6	59.33	+1	15.26	+7
4	55.87	-6	57.71	+4	21.26	-22	50.42	+4	59.09	-2	15.39	+7
5	55.60	-7	57.56	+1	20.17	-27	50.33	+2	58.85	-4	15.52	+6
6	55.34	-7	57.41	-3	19.09	-24	50.23	-2	58.61	-6	15.63	+3

sec δ, tg δ	85° 50' 50"	13.809	+13.773	88° 53' 50"	51.959	+51.949	85° 21' 10"	12.343	+12.302
	60	13.818	+13.782	60	52.090	+52.081	20	12.350	+12.309

Tag	5 I Hev. Cephei 5 <sup>m</sup> .2				I Hev. Draconis 4 <sup>m</sup> .3				ε Ursae minoris 4 <sup>m</sup> .2			
	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.
1923	7 <sup>h</sup> 5 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 26 <sup>m</sup>	in 0.01	+81° 39'	in 0.01	16 <sup>h</sup> 53 <sup>m</sup>	in 0.01	+82° 9'	in 0.01
Jan. 0	21.83	-11	9.36	-4	17.44	-5	47.79	+1	37.91	+1	59.47	+8
1	21.98	-7	9.68	-6	17.57	-4	47.98	-2	37.97	0	59.13	+7
2	22.12	-3	10.00	-7	17.70	-2	48.17	-5	38.03	-1	58.80	+6
3	22.25	+3	10.31	-6	17.83	0	48.36	-6	38.09	-2	58.46	+3
4	22.36	+7	10.63	-4	17.95	+2	48.56	-5	38.16	-2	58.13	-1
5	22.47	+9	10.95	0	18.07	+3	48.76	-4	38.23	-1	57.81	-4
6	22.57	+9	11.27	+3	18.19	+4	48.97	-1	38.30	0	57.48	-7
7	22.66	+6	11.59	+6	18.31	+3	49.18	+3	38.37	+1	57.16	-8
8	22.74	+2	11.91	+8	18.43	+2	49.40	+6	38.45	+2	56.84	-7
9	22.81	-3	12.23	+7	18.55	0	49.62	+7	38.53	+2	56.52	-4
10	22.87	-7	12.55	+5	18.66	-1	49.84	+6	38.61	+2	56.21	0
11	22.92	-9	12.87	+2	18.77	-3	50.07	+4	38.70	+2	55.90	+3
12	22.96	-8	13.20	-2	18.88	-4	50.31	+1	38.78	0	55.60	+6
13	23.00	-5	13.52	-5	18.98	-3	50.54	-3	38.88	-1	55.29	+7
14	23.02	-1	13.84	-7	19.08	-2	50.79	-6	38.97	-2	55.00	+6
15	23.03	+5	14.17	-8	19.18	0	51.03	-8	39.07	-3	54.70	+4
16	23.04	+9	14.49	-6	19.27	+2	51.28	-8	39.17	-3	54.41	+1
17	23.04	+12	14.81	-4	19.37	+3	51.53	-8	39.27	-3	54.12	-2
18	23.02	+12	15.14	-1	19.46	+4	51.79	-5	39.37	-2	53.84	-4
19	23.00	+11	15.46	+2	19.55	+4	52.05	-2	39.48	-1	53.56	-6
20	22.97	+8	15.79	+4	19.63	+4	52.31	0	39.59	0	53.28	-7
21	22.93	+4	16.11	+6	19.71	+3	52.58	+3	39.70	+1	53.01	-6
22	22.88	0	16.43	+7	19.79	+1	52.85	+6	39.82	+2	52.74	-5
23	22.82	-4	16.75	+6	19.87	0	53.12	+7	39.93	+2	52.48	-3
24	22.76	-8	17.07	+5	19.94	-2	53.40	+7	40.05	+2	52.23	0
25	22.68	-11	17.38	+3	20.01	-3	53.68	+6	40.17	+3	51.98	+3
26	22.60	-13	17.70	0	20.08	-4	53.96	+5	40.29	+2	51.73	+6
27	22.51	-12	18.01	-3	20.15	-5	54.24	+2	40.42	+1	51.49	+7
28	22.41	-9	18.33	-5	20.21	-4	54.53	-1	40.54	0	51.26	+8
29	22.31	-5	18.64	-6	20.27	-3	54.82	-3	40.67	-1	51.03	+7
30	22.19	0	18.95	-6	20.33	-1	55.11	-5	40.80	-2	50.80	+4
31	22.06	+5	19.26	-5	20.38	+1	55.40	-6	40.93	-2	50.58	+1
Febr. 1	21.93	+8	19.57	-2	20.43	+3	55.70	-4	41.07	-2	50.36	-3
2	21.79	+9	19.87	+2	20.48	+4	56.00	-2	41.20	-1	50.15	-6
3	21.63	+8	20.17	+5	20.52	+4	56.30	+1	41.34	0	49.95	-7
4	21.47	+4	20.47	+7	20.56	+3	56.60	+4	41.48	+1	49.75	-7
5	21.31	0	20.76	+8	20.60	+1	56.90	+6	41.62	+2	49.55	-5
6	21.13	-5	21.06	+6	20.64	0	57.20	+7	41.77	+2	49.37	-2
sec δ, tg δ	87° 10' 10"	20.250	+20.225		81° 39' 50"	6.898	+6.825		82° 9' 50"	7.335	+7.266	
	20	20.270	+20.245		60	6.900	+6.827		60	7.337	+7.269	



Tag	$\delta$ Ursae minoris 4 <sup>m</sup> .3				$\lambda$ Ursae minoris 6 <sup>m</sup> .8				76 Draconis 6 <sup>m</sup> .0			
	AR.	$\alpha$ Gl.	Dekl.	$\alpha$ Gl.	AR.	$\alpha$ Gl.	Dekl.	$\alpha$ Gl.	AR.	$\alpha$ Gl.	Dekl.	$\alpha$ Gl.
1923	17 <sup>h</sup> 56 <sup>m</sup>	in 0.01	+86° 36'	in 0.01	18 <sup>h</sup> 54 <sup>m</sup>	in 0.01	+89° 1'	in 0.01	20 <sup>h</sup> 48 <sup>m</sup>	in 0.01	+82° 14'	in 0.01
Jan. 0	41.97	+5	56.90	+7	15.21	+30	44.26	+3	10.42	+3	68.72	-1
1	41.99	+2	56.56	+7	14.89	+24	43.93	+5	10.32	+3	68.46	+2
2	42.01	-1	56.21	+7	14.59	+13	43.60	+7	10.22	+3	68.19	+4
3	42.04	-4	55.87	+4	14.32	+1	43.27	+7	10.12	+2	67.92	+6
4	42.08	-6	55.53	+1	{ 14.07 13.85	{ -12 -21	{ 42.94 42.61	{ +5 +2	10.02	0	67.65	+6
5	42.12	-6	55.19	-3	13.66	-24	42.27	-1	9.93	-1	67.37	+4
6	42.17	-4	54.85	-6	13.49	-20	41.94	-5	9.84	-2	67.09	+1
7	42.23	-1	54.51	-8	13.34	-11	41.60	-7	9.75	-3	66.80	-2
8	42.30	+2	54.17	-7	13.22	+1	41.27	-8	9.67	-3	66.52	-5
9	42.38	+5	53.84	-5	13.13	+13	40.93	-6	9.59	-2	66.22	-7
10	42.46	+6	53.50	-1	13.06	+21	40.60	-3	9.51	-1	65.93	-7
11	42.55	+6	53.17	+2	13.02	+23	40.26	+1	9.43	+1	65.63	-5
12	42.65	+4	52.84	+5	13.01	+18	39.93	+4	9.36	+2	65.33	-2
13	42.75	0	52.51	+7	13.02	+8	39.59	+7	9.29	+3	65.03	+2
14	42.86	-3	52.19	+7	13.06	-5	39.26	+8	9.22	+2	64.72	+5
15	42.98	-6	51.86	+6	13.13	-17	38.93	+7	9.16	+2	64.41	+8
16	43.11	-8	51.54	+3	13.22	-27	38.60	+5	9.10	+1	64.10	+9
17	43.24	-8	51.22	0	13.34	-31	38.27	+2	9.04	-1	63.78	+8
18	43.37	-8	50.90	-3	13.48	-31	37.94	-1	8.98	-2	63.47	+6
19	43.52	-6	50.58	-5	13.65	-25	37.61	-3	8.93	-2	63.15	+3
20	43.67	-3	50.27	-6	13.84	-17	37.28	-5	8.88	-3	62.83	0
21	43.83	0	49.96	-7	14.06	-6	36.95	-6	8.83	-3	62.50	-3
22	43.99	+3	49.65	-6	14.30	+6	36.63	-6	8.79	-2	62.17	-5
23	44.16	+6	49.35	-4	14.57	+17	36.30	-6	8.75	-1	61.84	-6
24	44.34	+7	49.05	-2	14.86	+26	35.98	-4	8.71	0	61.52	-7
25	44.53	+8	48.76	+1	15.18	+31	35.66	-1	8.67	+1	61.19	-6
26	44.72	+8	48.46	+4	15.53	+32	35.34	+2	8.64	+2	60.85	-5
27	44.92	+6	48.18	+6	15.90	+28	35.02	+4	8.61	+3	60.52	-2
28	45.12	+3	47.89	+7	16.29	+20	34.71	+6	8.58	+3	60.19	0
29	45.33	0	47.61	+7	16.71	+8	34.39	+7	8.56	+3	59.85	+3
30	45.55	-3	47.33	+5	17.15	+6	34.08	+6	8.54	+2	59.52	+5
31	45.77	-5	47.05	+2	17.62	-17	33.77	+3	8.52	+1	59.18	+6
Febr. 1	46.00	-6	46.78	-1	18.11	-23	33.47	0	8.51	0	58.85	+5
2	46.24	-5	46.52	-5	18.63	-23	33.16	-3	{ 8.50 8.49	{ -2 -3	{ 58.51 58.18	{ +3 -1
3	46.48	-3	46.25	-7	19.16	-16	32.86	-6	8.48	-3	57.84	-4
4	46.72	0	46.00	-8	19.72	-5	32.56	-8	8.48	-2	57.50	-6
5	46.97	+3	45.74	-7	20.30	+7	32.27	-7	8.49	-1	57.16	-7
6	47.23	+5	45.49	-3	20.91	+17	31.97	-5	8.50	0	56.82	-6
sec $\delta$ , tg $\delta$	86° 36' 50"	16.931	+16.901		89° 1' 30"	58.768	+58.759		82° 14' 60"	7.416	+7.348	
	60	16.945	+16.915		40	58.936	+58.927		70	7.418	+7.351	

Tag	43 Hev. Cephei 4 <sup>m</sup> .3				α Ursae minoris 2 <sup>m</sup> .0				Gr. 75° 6 <sup>m</sup> .8			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	0 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+85° 50'	in 0.01	1 <sup>h</sup> 32 <sup>m</sup>	in 0.01	+88° 53'	in 0.01	4 <sup>h</sup> 11 <sup>m</sup>	in 0.01	+85° 21'	in 0.01
Febr. 6	55.34	-7	57.41	-3	79.09	-24	50.23	-2	58.61	-6	15.63	+3
7	55.07	-4	57.26	-5	78.02	-16	50.12	-4	58.36	-6	15.75	-1
8	54.82	-1	57.10	-6	76.96	-3	50.01	-6	58.12	-4	15.85	-4
9	54.56	+3	56.93	-5	75.90	+11	49.89	-5	57.87	-1	15.95	-6
10	54.31	+6	56.76	-2	74.85	+22	49.77	-3	57.62	+3	16.04	-6
11	54.06	+8	56.58	+1	73.81	+29	49.64	0	57.37	+6	16.13	-5
12	53.81	+8	56.39	+4	72.79	+30	49.51	+3	57.11	+8	16.21	-3
13	53.57	+6	56.20	+7	71.77	+24	49.37	+6	56.86	+9	16.28	+1
14	53.33	+4	56.01	+8	70.76	+16	49.22	+8	56.60	+8	16.35	+4
15	53.10	+1	55.81	+8	69.76	+4	49.07	+8	56.35	+6	16.41	+6
16	52.86	-2	55.60	+7	68.77	-6	48.91	+7	56.09	+3	16.47	+7
17	52.64	-4	55.39	+5	67.79	-15	48.75	+5	55.83	0	16.52	+7
18	52.41	-6	55.18	+2	66.82	-21	48.58	+3	55.57	-3	16.56	+6
19	52.19	-6	54.96	-1	65.87	-24	48.40	0	55.31	-5	16.60	+4
20	51.97	-6	54.74	-4	64.93	-23	48.22	-3	55.05	-7	16.63	+1
21	51.76	-5	54.51	-7	64.00	-18	48.03	-6	54.78	-7	16.65	-2
22	51.55	-3	54.28	-8	63.09	-11	47.84	-8	54.52	-7	16.67	-5
23	51.34	0	54.04	-9	62.19	-2	47.64	-9	54.25	-6	16.68	-7
24	51.14	+2	53.80	-8	61.30	+8	47.44	-8	53.99	-4	16.68	-8
25	50.94	+5	53.55	-6	60.42	+16	47.23	-7	53.73	-1	16.68	-8
26	50.75	+6	53.30	-3	59.56	+21	47.02	-4	53.46	+2	16.67	-7
27	50.56	+6	53.05	0	58.71	+21	46.80	0	53.20	+4	16.66	-4
28	50.38	+4	52.79	+4	57.88	+15	46.58	+3	52.94	+5	16.64	0
März 1	50.20	+1	52.53	+5	57.07	+4	46.36	+5	52.68	+4	16.62	+4
2	50.03	-2	52.26	+6	56.27	-8	46.13	+6	52.42	+2	16.59	+6
3	49.86	-5	51.99	+4	55.49	-19	45.90	+5	52.16	-1	16.55	+7
4	49.69	-7	51.72	+2	54.73	-26	45.66	+3	51.89	-3	16.50	+7
5	49.53	-7	51.45	-1	53.98	-26	45.42	0	51.63	-5	16.45	+4
6	49.38	-5	51.17	-4	53.25	-20	45.17	-3	51.37	-6	16.40	+1
7	49.23	-2	50.89	-5	52.53	-8	44.92	-5	51.12	-5	16.34	-3
8	49.09	+2	50.61	-5	51.84	+6	44.67	-5	50.86	-2	16.27	-5
9	48.95	+5	50.32	-3	51.16	+19	44.41	-4	50.61	+2	16.20	-6
10	48.82	+8	50.03	0	50.49	+28	44.15	-1	50.35	+5	16.12	-6
11	48.69	+8	49.74	+4	49.85	+31	43.88	+2	50.10	+8	16.03	-3
12	48.57	+7	49.45	+7	49.23	+28	43.61	+5	49.85	+9	15.94	0
13	48.45	+5	49.15	+8	48.62	+20	43.33	+8	49.60	+9	15.84	+3
14	48.34	+2	48.85	+9	48.04	+9	43.06	+9	49.35	+7	15.74	+5
15	48.23	-1	48.55	+8	47.47	-1	42.78	+8	49.10	+5	15.63	+7
sec δ, tg δ	85° 50' 50"	13.809	+13.773		88° 53' 40"	51.829	+51.819		85° 21' 10"	12.343	+12.302	
	60	13.818	+13.782		50	51.959	+51.949		20	12.350	+12.309	

Tag	51 Hev. Cephei 5 <sup>m</sup> .2				1 Hev. Draconis 4 <sup>m</sup> .3				ε Ursae minoris 4 <sup>m</sup> .2			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	7 <sup>h</sup> 5 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 26 <sup>m</sup>	in 0.01	+81° 39'	in 0.01	16 <sup>h</sup> 53 <sup>m</sup>	in 0.01	+82° 9'	in 0.01
Febr. 6	21.13	- 5	21.06	+ 6	20.64	0	57.20	+ 7	41.77	+ 2	49.37	- 2
7	20.94	- 8	21.35	+ 3	20.67	- 2	57.51	+ 5	41.91	+ 2	49.19	+ 2
8	20.75	- 8	21.64	- 1	20.70	- 3	57.82	+ 2	42.06	+ 1	49.01	+ 5
9	20.55	- 6	21.92	- 4	20.73	- 3	58.13	- 2	42.21	0	48.84	+ 7
10	20.34	- 2	22.20	- 7	20.75	- 2	58.44	- 5	42.36	- 2	48.68	+ 7
11	20.13	+ 3	22.48	- 8	20.77	- 1	58.75	- 8	42.51	- 3	48.52	+ 5
12	19.90	+ 8	22.75	- 8	20.79	+ 1	59.06	- 9	42.66	- 3	48.37	+ 3
13	19.67	+ 11	23.03	- 5	20.80	+ 3	59.38	- 8	42.81	- 3	48.23	- 1
14	19.43	+ 13	23.29	- 2	20.81	+ 4	59.69	- 6	42.97	- 3	48.09	- 3
15	19.19	+ 12	23.56	+ 1	20.82	+ 4	60.00	- 4	43.12	- 2	47.96	- 6
16	18.93	+ 10	23.82	+ 3	20.82	+ 4	60.31	- 1	43.28	- 1	47.83	- 7
17	18.67	+ 6	24.08	+ 5	20.82	+ 3	60.63	+ 2	43.43	0	47.71	- 7
18	18.41	+ 2	24.33	+ 6	20.82	+ 2	60.94	+ 5	43.59	+ 1	47.60	- 6
19	18.13	- 3	24.58	+ 6	20.82	0	61.25	+ 6	43.75	+ 2	47.49	- 4
20	17.85	- 7	24.83	+ 5	20.81	- 1	61.56	+ 7	43.91	+ 3	47.39	- 1
21	17.56	- 11	25.07	+ 4	20.80	- 3	61.87	+ 7	44.07	+ 3	47.30	+ 2
22	17.26	- 13	25.30	+ 1	20.78	- 4	62.19	+ 6	44.24	+ 2	47.21	+ 5
23	16.96	- 13	25.54	- 1	20.76	- 5	62.50	+ 4	44.40	+ 2	47.13	+ 7
24	16.66	- 11	25.76	- 4	20.74	- 5	62.80	+ 1	44.56	+ 1	47.06	+ 8
25	16.35	- 8	25.99	- 6	20.72	- 4	63.11	- 2	44.72	0	46.99	+ 8
26	16.03	- 3	26.21	- 7	20.69	- 2	63.42	- 4	44.89	- 1	46.93	+ 6
27	15.71	+ 2	26.42	- 6	20.66	0	63.72	- 5	45.05	- 2	46.88	+ 3
28	15.38	+ 6	26.63	- 3	20.63	+ 2	64.03	- 5	45.22	- 2	46.83	- 1
März 1	15.04	+ 8	26.84	0	20.60	+ 3	64.33	- 3	45.38	- 1	46.79	- 4
2	14.70	+ 8	27.04	+ 4	20.56	+ 4	64.63	0	45.54	0	46.76	- 7
3	14.35	+ 5	27.23	+ 6	20.52	+ 3	64.93	+ 3	45.71	+ 1	46.73	- 8
4	13.99	+ 1	27.42	+ 8	20.48	+ 2	65.23	+ 6	45.87	+ 2	46.71	- 6
5	13.64	- 3	27.60	+ 7	20.43	0	65.53	+ 7	46.04	+ 2	46.69	- 4
6	13.27	- 6	27.78	+ 4	20.38	- 1	65.82	+ 6	46.20	+ 2	46.69	0
7	12.91	- 8	27.95	+ 1	20.33	- 3	66.12	+ 3	46.37	+ 1	46.69	+ 3
8	12.54	- 7	28.12	- 3	20.28	- 3	66.41	0	46.53	0	46.69	+ 6
9	12.16	- 3	28.28	- 6	20.22	- 2	66.70	- 4	46.70	- 1	46.70	+ 7
10	11.78	+ 2	28.44	- 8	20.16	- 1	66.98	- 7	46.86	- 2	46.72	+ 6
11	11.40	+ 6	28.59	- 8	20.10	0	67.27	- 9	47.02	- 3	46.75	+ 4
12	11.01	+ 11	28.74	- 6	20.04	+ 2	67.55	- 9	47.18	- 3	46.78	0
13	10.62	+ 13	28.88	- 4	19.97	+ 4	67.83	- 8	47.35	- 3	46.82	- 3
14	10.23	+ 13	29.01	0	19.90	+ 4	68.11	- 5	47.51	- 2	46.86	- 5
15	9.83	+ 11	29.14	+ 2	19.83	+ 4	68.38	- 2	47.67	- 1	46.91	- 7
sec δ, tg δ	87° 10' 20"	20.270	+ 20.245		81° 39' 60"	6.900	+ 6.827		82° 9' 40"	7.332	+ 7.264	
	30	20.290	+ 20.265		70	6.902	+ 6.829		50	7.335	+ 7.266	



Tag	♁ Ursae minoris 4 <sup>m</sup> .3				λ Ursae minoris 6 <sup>m</sup> .8				76 Draconis 6 <sup>m</sup> .0			
	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.
1923	17 <sup>h</sup> 56 <sup>m</sup>	in 0.01	+86° 36'	in 0.01	18 <sup>h</sup> 54 <sup>m</sup>	in 0.01	+89° 1'	in 0.01	20 <sup>h</sup> 48 <sup>m</sup>	in 0.01	+82° 14'	in 0.01
Febr. 6	47.23	+5	45.49	-3	20.91	+17	31.97	-5	8.50	0	56.82	-6
7	47.49	+5	45.25	0	21.54	+21	31.68	-1	8.51	+1	56.48	-3
8	47.75	+4	45.01	+4	22.19	+19	31.40	+3	8.52	+2	56.14	0
9	48.02	+1	44.77	+6	22.86	+11	31.11	+6	8.53	+2	55.80	+4
10	48.30	-2	44.54	+7	23.56	-1	30.83	+8	8.55	+2	55.47	+7
11	48.58	-5	44.32	+7	24.27	-13	30.56	+8	8.57	+1	55.13	+9
12	48.87	-8	44.10	+5	25.01	-24	30.29	+6	8.60	0	54.80	+9
13	49.16	-8	43.88	+2	25.76	-30	30.02	+3	8.63	-1	54.47	+7
14	49.45	-8	43.68	-1	26.54	-32	29.76	+1	8.66	-2	54.14	+4
15	49.75	-7	43.47	-4	27.34	-28	29.50	-2	8.70	-3	53.81	+1
16	50.05	-4	43.27	-6	28.16	-20	29.25	-5	8.73	-3	53.48	-2
17	50.36	-1	43.08	-6	28.99	-10	29.00	-6	8.77	-2	53.15	-4
18	50.67	+2	42.89	-6	29.85	+1	28.75	-7	8.81	-2	52.82	-6
19	50.99	+5	42.71	-5	30.72	+13	28.51	-6	8.86	-1	52.50	-7
20	51.31	+7	42.53	-3	31.61	+23	28.27	-4	8.91	+1	52.18	-7
21	51.64	+8	42.36	0	32.52	+30	28.03	-2	8.96	+2	51.86	-6
22	51.96	+8	42.20	+3	33.45	+33	27.80	0	9.02	+3	51.54	-4
23	52.29	+7	42.04	+5	34.39	+32	27.58	+3	9.08	+3	51.22	-1
24	52.63	+5	41.89	+7	35.35	+25	27.36	+5	9.14	+3	50.91	+2
25	52.96	+2	41.74	+7	36.32	+14	27.15	+7	9.20	+3	50.60	+4
26	53.30	-1	41.60	+6	37.31	+2	26.94	+6	9.27	+2	50.29	+5
27	53.64	-4	41.46	+4	38.32	-10	26.74	+5	9.33	0	49.99	+5
28	53.98	-5	41.33	0	39.34	-19	26.54	+1	9.41	-1	49.69	+3
März 1	54.33	-5	41.21	-3	40.38	-21	26.35	-2	9.48	-2	49.39	0
2	54.68	-3	41.09	-6	41.43	-18	26.16	-5	9.56	-3	49.10	-3
3	55.03	0	40.98	-8	42.49	-9	25.98	-7	9.64	-3	48.81	-6
4	55.38	+2	40.88	-7	43.57	+2	25.80	-8	9.72	-2	48.52	-7
5	55.74	+5	40.78	-5	44.66	+12	25.63	-6	9.81	0	48.24	-6
6	56.10	+5	40.69	-1	45.77	+19	25.46	-3	9.90	+1	47.96	-4
7	56.46	+5	40.61	+3	46.89	+19	25.30	+1	9.99	+2	47.68	-1
8	56.82	+2	40.53	+6	48.02	+13	25.15	+5	10.08	+2	47.41	+3
9	57.18	-1	40.45	+7	49.15	+3	25.00	+8	10.18	+2	47.14	+6
10	57.54	-4	40.38	+7	50.30	-10	24.86	+8	10.28	+1	46.87	+9
11	57.91	-7	40.32	+6	51.45	-22	24.72	+7	10.38	0	46.61	+9
12	58.28	-9	40.26	+3	52.62	-30	24.59	+5	10.49	-1	46.35	+8
13	58.65	-9	40.21	0	53.79	-33	24.46	+2	10.59	-2	46.10	+6
14	59.01	-8	40.17	-3	54.97	-32	24.34	-1	10.70	-3	45.85	+3
15	59.38	-5	40.14	-5	56.16	-25	24.23	-4	10.81	-3	45.61	-1
sec δ, tg δ	86° 36' 40"	16.917	+16.887		89° 1' 20"	58.601	+58.592		82° 14' 50"	7.413	+7.345	
	50	16.931	+16.901		30	58.768	+58.759		60	7.416	+7.348	

Tag	43 Hev. Cephei 4 <sup>m</sup> .3				α Ursae minoris 2 <sup>m</sup> .0				Gr. 75° 6 <sup>m</sup> .8			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	0 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+85° 50'	in 0.01	1 <sup>h</sup> 32 <sup>m</sup>	in 0.01	+88° 53'	in 0.01	4 <sup>h</sup> 11 <sup>m</sup>	in 0.01	+85° 21'	in 0.01
März 15	48.23	-1	48.55	+8	47.47	-1	42.78	+8	49.10	+5	15.63	+7
16	48.13	-3	48.25	+6	46.92	-12	42.50	+7	48.86	+2	15.51	+7
17	48.03	-5	47.94	+3	46.39	-19	42.21	+4	48.61	-1	15.39	+7
18	47.94	-6	47.64	0	45.88	-23	41.93	+1	48.37	-4	15.26	+5
19	47.86	-6	47.33	-3	45.38	-24	41.64	-2	48.13	-6	15.13	+2
20	47.78	-5	47.02	-6	44.91	-20	41.34	-5	47.90	-7	14.99	-1
21	47.70	-4	46.71	-8	44.46	-14	41.05	-7	47.66	-7	14.85	-3
22	47.63	-1	46.40	-9	44.03	-6	40.75	-8	47.43	-6	14.70	-6
23	47.57	+1	46.08	-8	43.62	+4	40.45	-9	47.20	-5	14.55	-8
24	47.51	+4	45.77	-7	43.23	+13	40.15	-8	46.98	-2	14.39	-8
25	47.46	+6	45.45	-4	42.86	+20	39.85	-6	46.76	+1	14.23	-8
26	47.41	+6	45.14	-1	42.51	+21	39.54	-2	46.54	+3	14.06	-5
27	47.37	+5	44.82	+2	42.19	+18	39.24	+1	46.32	+4	13.89	-2
28	47.34	+2	44.51	+4	41.88	+8	38.93	+4	46.11	+4	13.71	+2
29	47.31	-1	44.19	+5	41.60	-4	38.62	+5	45.90	+2	13.53	+5
30	47.29	-4	43.88	+4	41.33	-16	38.31	+5	45.69	0	13.34	+7
31	47.27	-7	43.56	+2	41.09	-23	38.00	+3	45.48	-3	13.15	+7
April 1	47.26	-8	43.24	-1	40.87	-27	37.69	0	45.28	-5	12.95	+5
2	47.26	-7	42.93	-4	40.66	-24	37.37	-3	45.08	-6	12.75	+2
3	47.26	-4	42.61	-5	40.48	-14	37.06	-5	44.89	-6	12.55	-2
4	47.27	0	42.30	-6	40.33	0	36.74	-6	44.69	-3	12.34	-4
5	47.28	+4	41.98	-4	40.19	+14	36.42	-5	44.51	0	12.12	-6
6	{ 47.30 47.32	{ +7 +9	{ 41.67 41.35	{ -1 +2	40.07	+25	36.11	-2	44.32	+4	11.91	-6
7	47.35	+8	41.04	+6	39.98	+32	35.79	+1	44.14	+7	11.68	-4
8	47.38	+7	40.72	+8	39.91	+31	35.48	+5	43.96	+9	11.46	-2
9	47.42	+4	40.41	+9	39.86	+25	35.16	+7	43.79	+9	11.23	+2
10	47.47	+1	40.10	+9	39.83	+15	34.84	+9	43.62	+8	10.99	+5
11	47.52	-2	39.79	+7	39.82	+4	34.53	+9	43.46	+6	10.75	+7
12	47.58	-5	39.48	+5	39.84	-7	34.21	+8	43.30	+3	10.51	+8
13	47.64	-6	39.18	+2	39.87	-16	33.90	+6	43.14	0	10.27	+7
14	47.71	-6	38.88	-1	39.93	-21	33.58	+3	42.99	-3	10.02	+6
15	47.78	-6	38.58	-4	{ 40.00 40.10	{ -22 -21	{ 33.26 32.95	{ -0 -3	42.85	-5	9.77	+3
16	47.86	-4	38.28	-6	40.22	-16	32.64	-6	42.70	-6	9.52	+1
17	47.94	-2	37.98	-8	40.35	-8	32.33	-8	42.57	-7	9.26	-2
18	48.03	0	37.68	-8	40.51	+1	32.02	-8	42.43	-6	9.00	-5
19	48.12	+3	37.39	-7	40.69	+10	31.71	-8	42.30	-5	8.74	-7
20	48.22	+5	37.10	-5	40.89	+18	31.40	-6	42.18	-3	8.48	-8
21	48.33	+6	36.81	-2	41.11	+21	31.10	-4	42.06	0	8.21	-8
see δ, tg δ	85° 50' 40"	13.800	+13.764		88° 53' 30"	51.698	+51.689		85° 21' 10"	12.343	+12.302	
	50	13.809	+13.773		40	51.829	+51.819		20	12.350	+12.309	

Tag	51 Hev. Cephei 5 <sup>m</sup> .2				1 Hev. Draconis 4 <sup>m</sup> .3				ε Ursae minoris 4 <sup>m</sup> .2			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	7 <sup>h</sup> 4 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 26 <sup>m</sup>	in 0.01	+81° 40'	in 0.01	16 <sup>h</sup> 53 <sup>m</sup>	in 0.01	+82° 9'	in 0.01
März 15	69.83	+11	29.14	+2	19.83	+4	8.38	-2	47.67	-1	46.91	-7
16	69.43	+8	29.27	+5	19.75	+4	8.65	+1	47.83	0	46.97	-7
17	69.03	+4	29.39	+6	19.68	+3	8.91	+4	47.99	+1	47.04	-6
18	68.63	-1	29.50	+7	19.60	+1	9.18	+6	48.15	+2	47.11	-5
19	68.22	-5	29.61	+6	19.52	0	9.44	+7	48.31	+2	47.18	-2
20	67.81	-9	29.71	+4	19.43	-2	9.69	+7	48.47	+3	47.27	+1
21	67.40	-12	29.80	+2	19.34	-4	9.94	+6	48.62	+2	47.36	+3
22	66.98	-13	29.89	0	19.25	-5	10.19	+4	48.77	+2	47.46	+6
23	66.56	-12	29.97	-3	19.16	-5	10.43	+2	48.93	+1	47.56	+8
24	66.14	-10	30.04	-5	19.07	-4	10.68	-1	49.08	0	47.67	+8
25	65.72	-6	30.11	-6	18.97	-3	10.91	-3	49.23	-1	47.79	+7
26	65.30	-1	30.17	-6	18.87	-1	11.14	-4	49.38	-1	47.91	+4
27	64.88	+4	30.23	-4	18.77	0	11.37	-5	49.53	-2	48.03	+1
28	64.45	+7	30.28	-1	18.67	+2	11.60	-3	49.68	-1	48.17	-3
29	64.02	+7	30.33	+3	18.57	+3	11.82	0	49.83	0	48.30	-6
30	63.60	+6	30.37	+6	18.47	+3	12.03	+3	49.98	+1	48.45	-7
31	63.17	+2	30.40	+8	18.36	+2	12.24	+5	50.12	+2	48.60	-7
April 1	62.74	-2	30.43	+8	18.25	+1	12.45	+7	50.26	+2	48.76	-5
2	62.32	-6	30.45	+6	18.14	-1	12.65	+7	50.41	+2	48.92	-1
3	61.89	-8	30.46	+2	18.03	-2	12.85	+5	50.54	+2	49.08	+2
4	61.46	-8	30.47	-2	17.91	-3	13.04	+1	50.68	+1	49.25	+5
5	61.04	-5	30.47	-5	17.80	-3	13.23	-3	50.82	-1	49.43	+7
6	60.61	0	30.47	-8	17.68	-2	13.41	-6	50.95	-2	49.61	+7
7	60.18	+5	30.46	-9	17.57	0	13.59	-9	51.08	-3	49.80	+5
8	59.76	+10	30.45	-8	17.45	+2	13.76	-10	51.22	-3	49.99	+2
9	59.33	+13	30.43	-5	17.33	+3	13.93	-9	51.35	-3	50.19	-1
10	58.91	+14	30.40	-2	17.21	+4	14.09	-7	51.47	-3	50.39	-4
11	58.49	+13	30.37	+1	17.09	+5	14.25	-4	51.60	-2	50.60	-6
12	58.07	+10	30.33	+4	16.96	+4	14.40	-1	51.72	-1	50.81	-7
13	57.65	+6	30.28	+6	16.84	+3	14.55	+2	51.83	0	51.03	-7
14	57.24	+2	30.23	+6	16.71	+2	14.69	+5	51.95	+1	51.25	-5
15	56.83	-3	30.17	+6	16.58	0	14.82	+6	52.07	+2	51.47	-3
16	56.42	-7	30.11	+5	16.46	-1	14.96	+7	52.18	+2	51.70	-1
17	56.01	-10	30.04	+3	16.33	-3	15.08	+6	52.29	+2	51.93	+2
18	55.60	-12	29.97	+1	16.20	-4	15.20	+5	52.41	+2	52.17	+5
19	55.19	-12	29.89	-2	16.06	-5	15.32	+3	52.51	+1	52.41	+7
20	54.79	-10	29.80	-5	15.93	-5	15.43	0	52.62	0	52.66	+8
21	54.39	-7	29.71	-6	15.80	-4	15.54	-2	52.73	-1	52.91	+8
sec δ, tg δ	87° 10' 30"	20.290	+20.265		81° 40' 10"	6.902	+6.829		82° 9' 40"	7.332	+7.264	
	40	20.310	+20.285		20	6.904	+6.832		50	7.335	+7.266	



Tag	$\delta$ Ursae minoris 4 <sup>m</sup> .3				$\lambda$ Ursae minoris 6 <sup>m</sup> .8				76 Draconis 6 <sup>m</sup> .0			
	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.
1923	17 <sup>h</sup> 56 <sup>m</sup>	in 0.01	+86° 36'	in 0.01	18 <sup>h</sup> 54 <sup>m</sup>	in 0.01	+89° 1'	in 0.01	20 <sup>h</sup> 48 <sup>m</sup>	in 0.01	+82° 14'	in 0.01
März 15	59.38	-5	40.14	-5	56.16	-25	24.23	-4	10.81	-3	45.61	-1
16	59.75	-3	40.11	-6	57.36	-15	24.12	-6	10.93	-3	45.37	-3
17	60.12	0	40.08	-7	58.57	-4	24.02	-6	11.04	-2	45.14	-5
18	60.49	+3	40.07	-6	59.78	+8	23.92	-6	11.16	-1	44.91	-7
19	60.86	+6	40.06	-4	61.00	+18	23.83	-5	11.28	0	44.68	-7
20	61.23	+7	40.06	-1	62.23	+27	23.75	-3	11.40	+1	44.46	-6
21	61.60	+8	40.06	+1	63.46	+31	23.67	-1	11.52	+2	44.24	-5
22	61.97	+8	40.07	+4	64.69	+32	23.60	+2	11.64	+3	44.03	-2
23	62.34	+6	40.09	+6	65.93	+28	23.53	+4	11.77	+3	43.82	+1
24	62.70	+3	40.12	+7	67.17	+20	23.47	+6	11.90	+3	43.62	+3
25	63.07	+1	40.15	+7	68.42	+8	23.42	+7	12.03	+2	43.43	+5
26	63.43	-2	40.18	+5	69.67	-4	23.37	+5	12.16	+1	43.25	+5
27	63.80	-4	40.22	+2	70.92	-13	23.33	+3	12.30	0	43.08	+4
28	64.16	-4	40.27	-2	72.17	-18	23.30	-1	12.43	-2	42.91	+1
29	64.52	-3	40.32	-5	73.43	-17	23.27	-4	12.57	-3	42.74	-2
30	64.88	-1	40.38	-7	74.68	-11	23.25	-7	12.71	-3	42.57	-5
31	65.24	+2	40.45	-8	75.94	0	23.24	-8	12.85	-2	42.40	-7
April 1	65.60	+4	40.52	-6	77.19	+11	23.23	-7	12.99	-1	42.24	-7
2	65.95	+6	40.60	-3	78.45	+18	23.23	-4	13.14	0	42.09	-6
3	66.30	+5	40.69	+1	79.70	+21	23.23	0	13.28	+2	41.94	-3
4	66.65	+3	40.78	+5	80.96	+17	23.24	+4	13.43	+2	41.80	+1
5	67.00	0	40.87	+7	82.21	+7	23.25	+7	13.58	+2	41.67	+5
6	67.34	-3	40.97	+8	83.46	-6	23.27	+8	13.72	+2	41.55	+8
7	67.69	-7	41.08	+7	84.71	-19	23.30	+8	13.87	+1	41.44	+10
8	68.03	-9	41.19	+4	85.95	-29	23.34	+6	14.03	-1	41.33	+9
9	68.37	-9	41.31	+1	87.19	-35	23.38	+3	14.18	-2	41.23	+7
10	68.71	-9	41.44	-2	88.42	-35	23.43	0	14.33	-3	41.13	+4
11	69.04	-7	41.57	-5	89.65	-30	23.48	-3	14.49	-3	41.04	+1
12	69.37	-4	41.71	-6	90.87	-21	23.54	-5	14.64	-3	40.95	-2
13	69.70	-1	41.85	-7	92.09	-10	23.60	-6	14.80	-2	40.87	-4
14	70.02	+2	42.00	-6	93.30	+2	23.67	-6	14.95	-1	40.80	-6
15	70.34	+5	42.16	-5	94.51	+13	23.75	-6	15.11	0	40.73	-7
16	70.65	+6	42.31	-2	95.71	+22	23.83	-4	15.27	+1	40.67	-6
17	70.96	+8	42.48	0	96.90	+28	23.92	-2	15.43	+2	40.61	-5
18	71.27	+7	42.65	+3	98.08	+31	24.01	+1	15.58	+3	40.56	-3
19	71.58	+6	42.82	+5	99.25	+29	24.11	+4	15.74	+3	40.51	0
20	71.88	+4	43.00	+7	100.42	+22	24.21	+6	15.90	+3	40.47	+2
21	72.18	+1	43.19	+7	101.58	+13	24.32	+7	16.06	+3	40.44	+4
sec $\delta$ , tg $\delta$	86° 36' 40"	16.917	+16.887		89° 1' 20"	58.601	+58.592		82° 14' 40"	7.410	+7.343	
	50	16.931	+16.901		30	58.768	+58.759		50	7.413	+7.345	



Tag	51 Hev. Cephei 5 <sup>m</sup> .2				1 Hev. Draconis 4 <sup>m</sup> .3				ε Ursae minoris 4 <sup>m</sup> .2			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	7 <sup>h</sup> 4 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 26 <sup>m</sup>	in 0.01	+81° 40'	in 0.01	16 <sup>h</sup> 53 <sup>m</sup>	in 0.01	+82° 9'	in 0.01
April 21	54.39	- 7	29.71	- 6	15.80	- 4	15.54	- 2	52.73	- I	52.91	+ 8
22	53.99	- 3	29.61	- 6	15.67	- 2	15.64	- 4	52.83	- I	53.17	+ 5
23	53.60	+ 2	29.51	- 5	15.53	0	15.73	- 5	52.93	- I	53.42	+ 2
24	53.21	+ 5	29.40	- 2	15.40	+ I	15.82	- 4	53.02	- I	53.69	- I
25	52.83	+ 7	29.29	+ I	15.27	+ 3	15.90	- I	53.12	- I	53.95	- 5
26	52.44	+ 6	29.17	+ 5	15.14	+ 3	15.97	+ 2	53.21	0	54.22	- 7
27	52.07	+ 3	29.05	+ 7	15.00	+ 2	16.04	+ 5	53.30	+ I	54.49	- 7
28	51.69	- 2	28.92	+ 8	14.87	+ I	16.11	+ 7	53.39	+ 2	54.77	- 6
29	51.32	- 6	28.79	+ 7	14.73	0	16.17	+ 8	53.47	+ 2	55.05	- 3
30	50.95	- 9	28.65	+ 4	14.60	- 2	16.22	+ 6	53.55	+ 2	55.33	+ I
Mai 1	50.59	- 9	28.51	0	14.46	- 3	16.27	+ 3	53.63	+ I	55.61	+ 4
2	50.23	- 7	28.36	- 4	14.33	- 3	16.31	- I	53.71	0	55.90	+ 6
3	49.87	- 3	28.20	- 6	14.19	- 2	16.35	- 5	53.78	- I	56.19	+ 7
4	49.52	+ 2	28.04	- 8	14.06	- I	16.38	- 8	53.85	- 3	56.48	+ 5
5	49.18	+ 8	27.88	- 8	13.92	+ I	16.40	- 9	53.92	- 3	56.77	+ 3
6	48.84	+ I2	27.71	- 6	13.79	+ 3	16.42	- 9	53.98	- 3	57.07	0
7	48.50	+ I4	27.53	- 3	13.65	+ 4	16.44	- 8	54.05	- 3	57.37	- 3
8	48.17	+ I4	27.35	0	13.51	+ 5	16.44	- 5	54.11	- 2	57.67	- 6
9	47.85	+ I2	27.17	+ 3	13.38	+ 5	16.44	- 2	54.17	- I	57.97	- 7
10	47.53	+ 8	26.98	+ 5	13.24	+ 4	16.44	+ I	54.22	0	58.28	- 7
11	47.22	+ 4	26.79	+ 6	13.11	+ 3	16.43	+ 3	54.27	+ I	58.59	- 6
12	46.91	- I	26.59	+ 6	12.97	+ I	16.42	+ 5	54.32	+ 2	58.90	- 4
13	46.60	- 5	26.39	+ 5	12.84	- I	16.40	+ 6	54.37	+ 2	59.21	- 2
14	46.31	- 9	26.18	+ 4	12.71	- 2	16.37	+ 6	54.41	+ 2	59.52	+ I
15	46.02	- II	25.97	+ I	12.57	- 4	16.34	+ 5	54.45	+ 2	59.84	+ 4
16	45.73	- 12	25.76	- I	12.44	- 4	16.30	+ 3	54.49	+ 2	60.15	+ 6
17	45.45	- II	25.54	- 4	12.31	- 4	16.26	+ I	54.53	+ I	60.47	+ 8
18	45.18	- 8	25.32	- 6	12.18	- 4	16.21	- 2	54.56	0	60.78	+ 8
19	44.91	- 4	25.09	- 6	12.05	- 3	16.15	- 4	54.59	- I	61.10	+ 6
20	44.65	+ I	24.86	- 6	11.92	- I	16.09	- 5	54.62	- 2	61.42	+ 4
21	44.39	+ 5	24.63	- 4	11.79	+ I	16.02	- 5	54.64	- 2	61.74	0
22	44.14	+ 7	24.39	0	11.66	+ 2	15.95	- 3	54.67	- I	62.06	- 3
23	43.90	+ 7	24.15	+ 3	11.54	+ 3	15.87	0	54.68	0	62.38	- 6
24	43.67	+ 4	23.91	+ 6	11.41	+ 3	15.79	+ 4	54.70	+ I	62.71	- 7
25	43.44	0	23.66	+ 8	11.29	+ 2	15.70	+ 7	54.71	+ 2	63.03	- 6
26	43.21	- 5	23.41	+ 8	11.16	0	15.61	+ 8	54.72	+ 3	63.35	- 4
27	43.00	- 8	23.16	+ 6	11.04	- 2	15.51	+ 7	54.73	+ 3	63.67	- I
28	42.79	- 10	22.90	+ 2	10.92	- 3	15.40	+ 5	54.74	+ 2	63.99	+ 3
sec δ, tg δ	87° 10' 20"	20.270	+20.245		81° 40' 10"	6.902	+6.829		82° 9' 50"	7.335	+7.266	
	30	20.290	+20.265		20	6.904	+6.832		60	7.337	+7.269	



# Obere Kulmination Greenwich

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Tag	♁ Ursae minoris 4 <sup>m</sup> .3				λ Ursae minoris 6 <sup>m</sup> .8				76 Draconis 6 <sup>m</sup> .0			
	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.
1923	17 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+86° 36'	in 0.01	18 <sup>h</sup> 55 <sup>m</sup>	in 0.01	+89° 1'	in 0.01	20 <sup>h</sup> 48 <sup>m</sup>	in 0.01	+82° 14'	in 0.01
April 21	12.18	+ 1	43.19	+ 7	41.58	+13	24.32	+ 7	16.06	+ 3	40.44	+ 4
22	12.47	- 1	43.38	+ 6	42.73	+ 1	24.44	+ 6	16.22	+ 2	40.41	+ 5
23	12.76	- 3	43.57	+ 3	43.86	- 9	24.56	+ 4	16.38	0	40.39	+ 5
24	13.04	- 4	43.77	0	44.99	-16	24.69	+ 1	16.54	- 1	40.37	+ 2
25	13.32	- 4	43.97	- 4	46.11	-17	24.82	- 3	16.70	- 2	40.37	- 1
26	13.59	- 1	44.18	- 7	47.22	-11	24.96	- 6	16.86	- 3	40.37	- 4
27	13.86	+ 1	44.39	- 8	48.31	- 2	25.10	- 8	17.03	- 2	40.37	- 7
28	14.13	+ 4	44.61	- 7	49.39	+ 9	25.25	- 8	17.19	- 1	40.38	- 8
29	14.39	+ 6	44.83	- 4	50.46	+19	25.40	- 6	17.35	0	40.40	- 7
30	14.65	+ 6	45.05	- 1	51.52	+24	25.56	- 2	17.51	+ 1	40.43	- 5
Mai 1	14.90	+ 5	45.28	+ 3	52.57	+22	25.73	+ 2	17.67	+ 2	40.46	- 1
2	15.14	+ 2	45.51	+ 6	53.60	+14	25.90	+ 5	17.83	+ 2	40.50	+ 3
3	15.38	- 2	45.74	+ 7	54.62	+ 1	26.07	+ 8	17.99	+ 2	40.55	+ 7
4	15.62	- 5	45.98	+ 7	55.63	-13	26.25	+ 8	18.15	+ 1	40.60	+ 9
5	15.85	- 8	46.23	+ 5	56.62	-26	26.43	+ 7	18.31	0	40.65	+ 9
6	16.07	-10	46.47	+ 2	57.60	-34	26.62	+ 5	18.47	- 1	40.71	+ 8
7	16.29	-10	46.73	- 1	58.56	-37	26.81	+ 2	18.63	- 2	40.78	+ 6
8	16.51	- 8	46.98	- 4	59.51	-34	27.01	- 1	18.78	- 3	40.85	+ 3
9	16.72	- 6	47.24	- 6	60.44	-27	27.21	- 4	18.94	- 3	40.93	- 1
10	16.92	- 3	47.51	- 7	61.35	-16	27.42	- 6	19.10	- 3	41.02	- 3
11	17.12	0	47.78	- 6	62.25	- 4	27.63	- 6	19.26	- 2	41.11	- 5
12	17.31	+ 3	48.04	- 5	63.13	+ 7	27.85	- 6	19.41	- 1	41.21	- 6
13	17.49	+ 5	48.32	- 3	64.00	+17	28.07	- 5	19.56	0	41.31	- 6
14	17.67	+ 7	48.59	- 1	64.85	+25	28.29	- 3	19.72	+ 1	41.42	- 5
15	17.85	+ 7	48.87	+ 2	65.68	+29	28.52	0	19.87	+ 2	41.53	- 3
16	18.02	+ 7	49.15	+ 5	66.50	+28	28.75	+ 3	20.02	+ 3	41.65	- 1
17	18.18	+ 5	49.43	+ 6	67.30	+24	28.98	+ 5	20.17	+ 3	41.78	+ 2
18	18.34	+ 2	49.71	+ 7	68.08	+15	29.22	+ 7	20.32	+ 3	41.91	+ 4
19	18.49	- 1	50.00	+ 6	68.84	+ 4	29.46	+ 6	20.47	+ 2	42.05	+ 5
20	18.63	- 3	50.29	+ 4	69.59	- 7	29.71	+ 5	20.61	+ 1	42.19	+ 5
21	18.77	- 4	50.58	+ 1	70.31	-15	29.96	+ 2	20.76	- 1	42.34	+ 4
22	18.90	- 4	50.88	- 3	71.02	-18	30.21	- 1	20.90	- 2	42.49	+ 1
23	19.02	- 2	51.18	- 6	71.71	-14	30.47	- 5	21.04	- 2	42.65	- 3
24	19.14	0	51.48	- 7	72.38	- 6	30.73	- 7	21.19	- 2	42.82	- 6
25	19.25	+ 3	51.78	- 8	73.03	+ 6	30.99	- 8	21.33	- 2	42.99	- 8
26	19.36	+ 6	52.08	- 6	73.66	+17	31.26	- 7	21.47	0	43.16	- 8
27	19.46	+ 7	52.38	- 2	74.27	+23	31.53	- 4	21.61	+ 1	43.34	- 6
28	19.56	+ 7	52.69	+ 1	74.87	+26	31.81	0	21.75	+ 2	43.53	- 3
see δ, tg δ	86° 36' 40"	16.917	+16.887		89° 1' 20"	58.601	+58.592		82° 14' 40"	7.410	+7.343	
	50	16.931	+16.901		30	58.768	+58.759		50	7.413	+7.345	

Tag	43 Hev. Cephei 4 <sup>m</sup> .3				α Ursae minoris 2 <sup>m</sup> .0				Gr. 750 6 <sup>m</sup> .8			
	AR.	♄ Gl.	Dekl.	♄ Gl.	AR.	♄ Gl.	Dekl.	♄ Gl.	AR.	♄ Gl.	Dekl.	♄ Gl.
1923	0 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+85° 50'	in 0.01	1 <sup>h</sup> 33 <sup>m</sup>	in 0.01	+88° 53'	in 0.01	4 <sup>h</sup> 11 <sup>m</sup>	in 0.01	+85° 20'	in 0.01
Mai 28	55.41	0	28.65	-7	2.13	0	21.69	-7	41.07	-4	57.15	-5
29	55.67	+4	28.52	-5	2.99	+14	21.51	-6	41.14	0	56.86	-7
30	55.93	+7	28.39	-1	3.86	+25	21.33	-3	41.22	+4	56.57	-6
31	56.20	+8	28.27	+2	4.75	+30	21.16	+1	41.30	+7	56.29	-4
Juni 1	56.47	+8	28.15	+6	5.65	+29	20.99	+5	41.38	+9	56.00	-1
2	56.74	+6	28.03	+9	6.56	+23	20.83	+8	41.47	+9	55.72	+2
3	57.01	+3	27.93	+10	7.48	+13	20.67	+9	41.56	+8	55.44	+5
4	57.29	0	27.82	+9	8.41	+2	20.52	+9	41.66	+6	55.16	+7
5	57.56	-3	27.72	+7	9.36	-9	20.37	+8	41.76	+3	54.89	+8
6	57.84	-5	27.63	+5	10.31	-16	20.23	+6	41.87	0	54.61	+7
7	58.12	-6	27.54	+2	11.27	-20	20.09	+3	41.98	-3	54.34	+5
8	58.40	-6	27.46	-1	12.24	-21	19.96	-1	42.09	-5	54.07	+3
9	58.68	-5	27.39	-4	13.22	-18	19.83	-3	42.21	-6	53.80	0
10	58.97	-3	27.32	-6	14.21	-13	19.71	-6	42.34	-6	53.53	-3
11	59.26	-1	27.26	-8	15.20	-5	19.59	-7	42.46	-6	53.27	-5
12	59.55	+1	27.20	-7	16.21	+4	19.48	-8	42.60	-4	53.01	-7
13	59.84	+4	27.15	-6	17.22	+13	19.37	-7	42.74	-2	52.75	-8
14	60.13	+6	27.10	-4	18.24	+20	19.27	-5	42.88	+1	52.50	-7
15	60.42	+6	27.06	-1	19.27	+22	19.17	-2	43.02	+3	52.24	-5
16	60.72	+5	27.02	+2	20.31	+20	19.08	+1	43.18	+5	51.99	-2
17	61.02	+3	26.99	+4	21.36	+12	18.99	+4	43.33	+5	51.74	+1
18	61.32	0	26.96	+5	22.41	0	18.91	+5	43.49	+3	51.50	+4
19	61.62	-4	26.94	+5	23.47	-12	18.83	+5	43.65	0	51.26	+6
20	61.92	-7	26.93	+2	24.54	-24	18.76	+3	43.82	-3	51.02	+7
21	62.22	-8	26.92	-1	25.61	-29	18.70	0	43.99	-6	50.78	+5
22	62.52	-8	26.91	-4	26.69	-28	18.64	-3	44.17	-7	50.55	+2
23	62.82	-5	26.92	-7	27.77	-20	18.59	-6	44.35	-7	50.32	-1
24	63.12	-2	26.92	-7	28.86	-7	18.54	-7	44.53	-6	50.09	-5
25	63.42	+2	26.93	-6	29.95	+7	18.50	-7	44.71	-3	49.87	-7
26	63.72	+5	26.95	-3	31.05	+19	18.46	-4	44.90	+1	49.65	-7
27	64.03	+8	26.97	0	32.15	+28	18.43	-1	45.09	+5	49.43	-6
28	64.33	+8	27.00	+4	33.25	+29	18.41	+3	45.29	+8	49.22	-3
29	64.63	+7	27.04	+7	34.36	+26	18.39	+6	45.49	+9	49.01	+1
30	64.94	+4	27.08	+9	35.47	+17	18.38	+8	45.69	+8	48.81	+4
Juli 1	65.24	+1	27.13	+9	36.58	+6	18.37	+9	45.90	+7	48.61	+6
2	65.55	-2	27.18	+8	37.69	-5	18.36	+8	46.11	+4	48.41	+8
3	65.85	-4	27.24	+6	38.81	-14	18.36	+7	46.32	+1	48.22	+8
4	66.15	-6	27.30	+3	39.93	-20	18.36	+4	46.54	-2	48.03	+6
sec δ, tg δ	85° 50' 20"	13.781	+13.745		88° 53' 10"	51.441	+51.431		85° 20' 50"	12.328	+12.287	
	30	13.791	+13.754		20	51.569	+51.560		60	12.335	+12.295	

# Obere Kulmination Greenwich

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Tag	5 I Ilev. Cephei 5 <sup>m</sup> .2				I Ilev. Draconis 4 <sup>m</sup> .3				ε Ursae minoris 4 <sup>m</sup> .2			
	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.
1923	7 <sup>h</sup> 4 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 26 <sup>m</sup>	in 0.01	+81° 40'	in 0.01	16 <sup>h</sup> 53 <sup>m</sup>	in 0.01	+82° 10'	in 0.01
Mai 28	42.79	-10	22.90	+2	10.92	-3	15.40	+5	54.74	+2	3.99	+3
29	42.59	-9	22.64	-2	10.80	-4	15.29	+2	54.74	+1	4.31	+6
30	42.39	-6	22.38	-5	10.68	-3	15.18	-2	54.74	-1	4.63	+7
31	42.20	-1	22.11	-8	10.56	-2	15.06	-6	54.74	-2	4.95	+6
Juni 1	42.02	+5	21.85	-8	10.45	0	14.94	-8	54.73	-3	5.27	+4
2	41.84	+10	21.57	-7	10.33	+2	14.81	-9	54.72	-3	5.59	+1
3	41.68	+13	21.30	-5	10.22	+4	14.68	-8	54.71	-3	5.91	-2
4	41.52	+14	21.02	-1	10.11	+5	14.54	-6	54.70	-2	6.23	-5
5	41.36	+13	20.74	+2	9.99	+5	14.40	-3	54.68	-2	6.55	-7
6	41.22	+10	20.46	+4	9.88	+4	14.25	0	54.66	0	6.87	-7
7	41.08	+6	20.18	+6	9.77	+3	14.09	+2	54.64	+1	7.19	-7
8	40.95	+1	19.89	+6	9.66	+2	13.93	+5	54.62	+1	7.51	-5
9	40.83	-3	19.60	+6	9.56	0	13.77	+6	54.59	+2	7.83	-3
10	40.71	-7	19.31	+4	9.45	-2	13.60	+6	54.56	+2	8.15	0
11	40.61	-10	19.02	+2	9.35	-3	13.43	+5	54.53	+2	8.46	+3
12	40.51	-11	18.73	0	9.25	-4	13.25	+4	54.49	+2	8.77	+5
13	40.41	-11	18.43	-3	9.15	-4	13.07	+2	54.45	+1	9.08	+7
14	40.33	-8	18.13	-5	9.05	-4	12.88	-1	54.41	0	9.39	+8
15	40.25	-5	17.83	-6	8.96	-3	12.69	-4	54.37	-1	9.70	+7
16	40.18	0	17.53	-6	8.86	-1	12.50	-5	54.32	-1	10.01	+5
17	40.11	+4	17.23	-5	8.77	0	12.30	-5	54.28	-2	10.31	+1
18	40.06	+7	16.93	-2	8.68	+2	12.10	-4	54.22	-1	10.61	-2
19	40.01	+8	16.62	+2	8.59	+3	11.89	-1	54.17	-1	10.91	-5
20	39.97	+6	16.32	+5	8.50	+3	11.68	+2	54.11	0	11.21	-7
21	39.93	+2	16.01	+7	8.42	+2	11.46	+5	54.06	+2	11.51	-7
22	39.91	-2	15.70	+8	8.33	+1	11.24	+8	53.99	+2	11.80	-5
23	39.89	-7	15.40	+7	8.25	-1	11.01	+8	53.93	+3	12.09	-2
24	39.88	-10	15.09	+4	8.17	-3	10.78	+7	53.86	+2	12.38	+2
25	39.87	-11	14.78	0	8.09	-4	10.55	+4	53.79	+1	12.67	+5
26	39.88	-8	14.47	-4	8.02	-4	10.32	0	53.72	0	12.95	+7
27	39.89	-4	14.16	-7	7.94	-3	10.08	-4	53.65	-1	13.24	+7
28	39.91	+2	13.84	-8	7.87	-1	9.84	-7	53.57	-2	13.51	+5
29	39.93	+7	13.53	-8	7.80	+1	9.59	-9	53.49	-3	13.79	+3
30	39.96	+11	13.22	-6	7.73	+3	9.34	-9	53.41	-3	14.06	-1
Juli 1	40.01	+14	12.91	-3	7.66	+4	9.09	-7	53.33	-3	14.33	-4
2	40.06	+13	12.59	+1	7.60	+5	8.83	-4	53.24	-2	14.60	-6
3	40.11	+11	12.28	+3	7.54	+5	8.58	-1	53.15	-1	14.86	-7
4	40.18	+8	11.97	+5	7.48	+4	8.31	+2	53.06	0	15.12	-7
sec δ, tg δ	87° 10' 10"	20.250	+20.225		81° 40' 10"	6.902	+6.829		82° 10' 0"	7.337	+7.269	
	20	20.270	+20.245		20	6.904	+6.832		10	7.340	+7.271	



Tag	δ Ursae minoris 4 <sup>m</sup> .3				λ Ursae minoris 6 <sup>m</sup> .8				76 Draconis 6 <sup>m</sup> .0			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	17 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+86° 36'	in 0.01	18 <sup>h</sup> 56 <sup>m</sup>	in 0.01	+89° 1'	in 0.01	20 <sup>h</sup> 48 <sup>m</sup>	in 0.01	+82° 14'	in 0.01
Mai 28	19.56	+ 7	52.69	+ 1	14.87	+26	31.81	0	21.75	+ 2	43.53	- 3
29	19.65	+ 5	53.00	+ 5	15.44	+21	32.08	+ 4	21.89	+ 3	43.72	+ 1
30	19.73	+ 1	53.31	+ 7	15.99	+10	32.36	+ 7	22.02	+ 2	43.91	+ 5
31	19.81	- 3	53.62	+ 8	16.52	- 5	32.64	+ 8	22.15	+ 2	44.11	+ 8
Juni 1	19.88	- 7	53.93	+ 6	17.03	-19	32.93	+ 8	22.28	+ 1	44.32	+ 9
2	19.94	- 9	54.24	+ 3	17.52	-30	33.21	+ 6	22.41	- 1	44.53	+ 8
3	19.99	-10	54.56	0	17.99	-36	33.50	+ 3	22.54	- 2	44.74	+ 7
4	20.04	- 9	54.87	- 3	18.44	-36	33.79	- 1	22.66	- 3	44.96	+ 4
5	20.09	- 7	55.19	- 5	18.87	-30	34.08	- 3	22.79	- 3	45.18	+ 1
6	20.12	- 4	55.50	- 6	19.28	-21	34.38	- 5	22.91	- 3	45.41	- 2
7	20.15	- 1	55.82	- 7	19.66	- 9	34.67	- 6	23.02	- 2	45.64	- 4
8	20.17	+ 2	56.14	- 6	20.03	+ 2	34.97	- 6	23.14	- 1	45.88	- 6
9	20.19	+ 5	56.46	- 4	20.37	+13	35.27	- 5	23.26	0	46.12	- 6
10	20.20	+ 6	56.78	- 1	20.69	+22	35.57	- 3	23.37	+ 1	46.37	- 5
11	20.20	+ 7	57.10	+ 1	20.99	+27	35.88	- 1	23.49	+ 2	46.62	- 4
12	20.19	+ 7	57.41	+ 4	21.27	+28	36.18	+ 2	23.59	+ 3	46.87	- 2
13	20.18	+ 5	57.73	+ 6	21.53	+25	36.49	+ 4	23.70	+ 3	47.13	+ 1
14	20.17	+ 3	58.05	+ 7	21.76	+17	36.80	+ 6	23.81	+ 3	47.39	+ 3
15	20.15	0	58.37	+ 7	21.97	+ 7	37.11	+ 7	23.91	+ 2	47.66	+ 5
16	20.12	- 3	58.69	+ 5	22.16	- 5	37.42	+ 6	24.01	+ 1	47.92	+ 6
17	20.08	- 4	59.01	+ 3	22.33	-14	37.74	+ 4	24.12	0	48.20	+ 5
18	20.04	- 5	59.33	- 1	22.48	-19	38.05	0	24.21	- 1	48.47	+ 2
19	20.00	- 4	59.65	- 5	22.60	-19	38.37	- 4	24.31	- 2	48.75	- 1
20	19.95	- 1	59.97	- 7	22.70	-12	38.69	- 6	24.40	- 3	49.03	- 4
21	19.89	+ 2	60.29	- 8	22.79	0	39.01	- 8	24.49	- 2	49.32	- 7
22	19.83	+ 5	60.60	- 7	22.85	+12	39.32	- 8	24.58	- 1	49.61	- 8
23	19.75	+ 7	60.92	- 4	22.88	+23	39.64	- 5	24.66	0	49.91	- 7
24	19.67	+ 7	61.23	0	22.90	+27	39.96	- 2	24.75	+ 2	50.20	- 5
25	19.59	+ 6	61.55	+ 4	22.90	+25	40.28	+ 2	24.83	+ 3	50.50	- 1
26	19.50	+ 3	61.86	+ 6	22.87	+17	40.60	+ 5	24.91	+ 3	50.80	+ 3
27	19.40	- 1	62.17	+ 7	22.82	+ 3	40.92	+ 8	24.99	+ 2	51.10	+ 7
28	19.29	- 5	62.48	+ 7	22.75	-11	41.24	+ 8	25.07	+ 1	51.41	+ 9
29	19.18	- 7	62.79	+ 5	22.64	-24	41.56	+ 6	25.14	0	51.72	+ 9
30	19.06	- 9	63.10	+ 2	22.52	-32	41.88	+ 4	25.21	- 1	52.03	+ 7
Juli 1	18.94	- 9	63.41	- 2	22.38	-35	42.20	+ 1	25.28	- 2	52.35	+ 5
2	18.81	- 8	63.71	- 4	22.22	-32	42.53	- 2	25.34	- 3	52.67	+ 2
3	18.67	- 5	64.01	- 6	22.04	-24	42.85	- 5	25.40	- 3	52.99	- 1
4	18.53	- 2	64.31	- 7	21.83	-14	43.17	- 6	25.46	- 3	53.31	- 4
sec δ, tg δ	86° 36' 50"	16.931	+16.901		89° 1' 30"	58.768	+58.759		82° 14' 40"	7.410	+7.343	
	60	16.945	+16.915		40	58.936	+58.927		50	7.413	+7.345	

Tag	43 Hev. Cephei 4 <sup>m</sup> .3				α Ursae minoris 2 <sup>m</sup> .0				Gr. 750 6 <sup>m</sup> .8				
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	
1923	0 <sup>h</sup> 58 <sup>m</sup>	in 0.01	+85° 50'	in 0.01	1 <sup>h</sup> 33 <sup>m</sup>	in 0.01	+88° 53'	in 0.01	4 <sup>h</sup> 11 <sup>m</sup>	in 0.01	+85° 20'	in 0.01	
Juli	4	6.15	-6	27.30	+3	39.93	-20	18.36	+4	46.54	-2	48.03	+6
	5	6.46	-6	27.37	0	41.06	-21	18.37	+1	46.76	-4	47.84	+4
	6	6.76	-6	27.45	-3	42.18	-21	18.39	-2	46.98	-6	47.66	+2
	7	7.06	-4	27.53	-6	43.31	-16	18.41	-5	47.21	-6	47.48	-1
	8	7.36	-2	27.61	-7	44.44	-8	18.44	-7	47.44	-6	47.30	-4
	9	7.66	0	27.70	-8	45.57	0	18.47	-8	47.67	-5	47.13	-6
	10	7.96	+3	27.80	-7	46.70	+10	18.51	-7	47.91	-3	46.96	-8
	11	8.26	+5	27.90	-5	47.83	+18	18.55	-6	48.15	0	46.80	-8
	12	8.56	+6	28.00	-2	48.96	+22	18.60	-3	48.39	+3	46.64	-6
	13	8.86	+6	28.12	+1	50.09	+22	18.66	0	48.63	+4	46.48	-4
	14	9.16	+4	28.23	+4	51.22	+16	18.72	+3	48.88	+5	46.33	0
	15	9.45	+2	28.35	+5	52.34	+6	18.79	+5	49.13	+4	46.18	+3
	16	9.74	-2	28.48	+5	53.47	-6	18.86	+6	49.38	+2	46.04	+6
	17	10.04	-5	28.61	+4	54.59	-19	18.94	+5	49.63	-1	45.90	+7
	18	10.33	-7	28.75	+1	55.72	-27	19.02	+2	49.89	-4	45.77	+6
	19	10.62	-8	28.89	-2	56.85	-28	19.11	-1	50.15	-6	45.64	+4
	20	10.92	-6	29.04	-5	57.97	-23	19.20	-4	50.41	-7	45.52	0
	21	11.20	-3	29.19	-7	59.09	-13	19.30	-6	50.68	-6	45.39	-3
	22	11.49	+1	29.35	-7	60.21	+1	19.40	-7	50.94	-4	45.28	-6
	23	11.78	+4	29.51	-5	61.33	+15	19.51	-6	51.21	0	45.17	-7
	24	12.06	+7	29.68	-2	62.44	+25	19.63	-3	51.48	+4	45.06	-6
	25	12.34	+8	29.85	+2	63.55	+29	19.75	+1	51.75	+7	44.95	-4
	26	12.63	+8	30.03	+6	64.65	+27	19.87	+5	52.03	+8	44.86	-1
	27	12.91	+5	30.21	+8	65.75	+20	20.00	+7	52.30	+8	44.76	+3
	28	13.18	+2	30.40	+9	66.85	+10	20.13	+9	52.58	+7	44.67	+5
	29	13.45	-1	30.59	+8	67.94	-2	20.27	+9	52.86	+5	44.59	+7
	30	13.73	-3	30.79	+7	69.03	-12	20.41	+7	53.15	+2	44.51	+8
	31	13.99	-5	30.99	+4	70.11	-17	20.56	+5	53.43	-1	44.44	+7
Aug.	1	14.26	-6	31.20	+1	71.19	-21	20.71	+2	53.71	-3	44.37	+5
	2	14.53	-6	31.41	-2	72.26	-21	20.87	-1	54.00	-5	44.30	+3
	3	14.79	-5	31.63	-5	73.33	-18	21.04	-4	54.29	-6	44.24	-1
	4	15.05	-3	31.85	-7	74.39	-12	21.21	-6	54.58	-6	44.18	-3
	5	15.32	-1	32.07	-8	75.45	-3	21.38	-7	54.87	-5	44.13	-6
	6	15.57	+2	32.30	-7	76.50	+6	21.56	-8	55.16	-3	44.08	-7
	7	15.83	+4	32.53	-6	77.54	+15	21.74	-7	55.45	-1	44.04	-8
	8	16.08	+6	32.76	-4	78.58	+21	21.93	-5	55.74	+1	44.00	-7
	9	16.33	+6	33.00	0	79.61	+22	22.12	-1	56.04	+3	43.97	-5
	10	16.58	+5	33.25	+3	80.63	+19	22.32	+2	56.33	+5	43.94	-2
sec δ, tg δ	85° 50' 20"   13.781   +13.745				88° 53' 10"   51.441   +51.431				85° 20' 40"   12.321   +12.280				
	30   13.791   +13.754				20   51.569   +51.560				50   12.328   +12.287				

Tag	51 Hev. Cephei 5 <sup>m</sup> .2				1 Hev. Draconis 4 <sup>m</sup> .3				ε Ursae minoris 4 <sup>m</sup> .2									
	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.						
1923	7 <sup>h</sup> 4 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 26 <sup>m</sup>	in 0.01	+81° 39'	in 0.01	16 <sup>h</sup> 53 <sup>m</sup>	in 0.01	+82° 10'	in 0.01						
Juli	4	40.18 + 8	11.97 + 5	7.48 + 4	68.31 + 2	53.06 0	15.12 - 7	5	40.25 + 3	11.66 + 6	7.42 + 2	68.05 + 4	52.96 + 1	15.38 - 6				
	6	40.33 - 2	11.34 + 6	7.36 + 1	67.78 + 5	52.86 + 2	15.64 - 4	7	40.41 - 6	11.03 + 5	7.30 - 1	67.51 + 6	52.76 + 2	15.89 - 1				
	8	{ 40.51 - 9 40.61 - 11	{ 10.71 + 3 10.40 + 1	7.25 - 3	67.23 + 6	52.66 + 2	16.14 + 2	9	40.72 - 11	10.09 - 2	7.20 - 4	66.95 + 4	52.56 + 2	16.39 + 4				
	10	40.83 - 9	9.77 - 4	7.15 - 4	66.67 + 2	52.45 + 1	16.64 + 6	11	40.95 - 6	9.46 - 6	7.11 - 4	66.39 0	52.35 0	16.88 + 8				
	12	41.08 - 2	9.15 - 7	7.07 - 3	66.10 - 3	52.24 - 1	17.12 + 7	13	41.22 + 3	8.84 - 6	7.03 - 2	65.81 - 5	52.13 - 1	17.35 + 6				
	14	41.36 + 6	8.53 - 3	6.99 0	65.52 - 6	52.01 - 2	17.58 + 3	15	41.51 + 8	8.23 0	6.95 + 1	65.22 - 5	51.90 - 2	17.80 - 1				
	16	41.67 + 8	7.92 + 4	6.91 + 3	64.93 - 3	51.78 - 1	18.03 - 4	17	41.84 + 5	7.61 + 6	6.88 + 3	64.63 0	51.66 0	18.24 - 7				
	18	42.01 0	7.31 + 8	6.85 + 3	64.33 + 4	51.54 + 1	18.45 - 7	19	42.19 - 5	7.01 + 8	6.82 + 2	64.02 + 6	51.42 + 2	18.66 - 6				
	20	42.38 - 9	6.70 + 5	6.80 0	63.71 + 8	51.30 + 3	18.87 - 4	21	42.57 - 10	6.40 + 2	6.77 - 2	63.41 + 7	51.17 + 3	19.07 0				
	22	42.77 - 10	6.10 - 2	6.75 - 3	63.09 + 5	51.04 + 2	19.27 + 4	23	42.98 - 6	5.80 - 6	6.73 - 4	62.78 + 2	50.91 + 1	19.46 + 6				
	24	43.19 - 1	5.50 - 8	6.72 - 3	62.47 - 2	50.78 - 1	19.65 + 7	25	43.41 + 5	5.21 - 8	6.70 - 2	62.15 - 6	50.64 - 2	19.83 + 6				
	26	43.64 + 9	4.91 - 6	6.69 0	61.83 - 8	50.51 - 3	20.01 + 4	27	43.87 + 13	4.61 - 4	6.68 + 2	61.52 - 9	50.37 - 3	20.19 + 1				
	28	44.11 + 13	4.32 - 1	6.67 + 4	61.20 - 8	50.23 - 3	20.36 - 2	29	44.36 + 12	4.03 + 2	6.66 + 5	60.87 - 5	50.09 - 2	20.53 - 5				
	30	44.61 + 9	3.75 + 5	6.66 + 5	60.55 - 2	49.95 - 1	20.69 - 7	31	44.87 + 5	3.46 + 6	6.66 + 4	60.22 + 1	49.80 0	20.85 - 7				
Aug.	1	45.14 0	3.18 + 6	6.66 + 3	59.89 + 3	49.65 + 1	21.00 - 6	2	45.41 - 4	2.90 + 6	6.67 + 1	59.57 + 5	49.51 + 2	21.15 - 5				
	3	45.69 - 8	2.62 + 4	6.67 0	59.24 + 6	49.36 + 2	21.30 - 2	4	45.97 - 10	2.35 + 2	6.68 - 2	58.91 + 6	49.21 + 2	21.44 + 1				
	5	46.26 - 11	2.07 - 1	6.69 - 3	58.58 + 5	49.06 + 2	21.58 + 3	6	46.56 - 11	1.80 - 3	6.70 - 4	58.25 + 3	48.91 + 2	21.71 + 6				
	7	46.86 - 8	1.53 - 5	6.71 - 4	57.91 + 1	48.75 + 1	21.84 + 7	8	47.17 - 4	1.26 - 7	6.72 - 4	57.58 - 2	48.60 0	21.96 + 8				
	9	47.49 0	1.00 - 6	6.74 - 3	57.25 - 4	48.44 - 1	22.08 + 7	10	47.81 + 5	0.73 - 5	6.76 - 1	56.91 - 5	48.28 - 2	22.19 + 4				
sec δ, tg δ	87° 10' 0"	20.230	+20.206	81° 39' 60"	6.900	+6.827	82° 10' 10"	7.340	+7.271	10	20.250	+20.225	70	6.902	+6.829	20	7.342	+7.274



# Obere Kulmination Greenwich

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Tag	δ Ursae minoris 4 <sup>m</sup> .3				λ Ursae minoris 6 <sup>m</sup> .8				76 Draconis 6 <sup>m</sup> .0			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	17 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+86° 37'	in 0.01	18 <sup>h</sup> 55 <sup>m</sup>	in 0.01	+89° 1'	in 0.01	20 <sup>h</sup> 48 <sup>m</sup>	in 0.01	+82° 14'	in 0.01
Juli 4	18.53	-2	4.31	-7	81.83	-14	43.17	-6	25.46	-3	53.31	-4
5	18.38	+1	4.61	-6	81.60	-2	43.49	-6	25.52	-2	53.64	-5
6	18.23	+4	4.91	-5	81.36	+9	43.81	-6	25.57	-1	53.96	-6
7	18.07	+5	5.21	-3	81.09	+19	44.13	-4	25.63	0	54.29	-6
8	17.90	+7	5.50	0	80.79	+25	44.45	-2	25.67	+1	54.62	-5
9	17.73	+7	5.79	+3	80.48	+28	44.77	+1	25.72	+2	54.95	-3
10	17.55	+6	6.08	+5	80.14	+26	45.09	+3	25.77	+3	55.29	0
11	17.37	+4	6.37	+7	79.79	+20	45.40	+5	25.81	+3	55.63	+3
12	17.18	+1	6.66	+7	79.41	+11	45.72	+7	25.85	+3	55.96	+5
13	16.98	-2	6.94	+6	79.00	-1	46.03	+6	25.88	+2	56.30	+6
14	16.78	-4	7.22	+4	78.58	-12	46.35	+5	25.92	0	56.65	+5
15	16.58	-5	7.50	+1	78.14	-19	46.66	+2	25.95	-1	56.99	+4
16	16.37	-5	7.78	-3	77.68	-21	46.97	-2	25.98	-2	57.33	+1
17	16.15	-3	8.05	-6	77.19	-17	47.28	-5	26.01	-3	57.68	-3
18	15.93	0	8.32	-8	76.69	-7	47.59	-7	26.03	-3	58.02	-6
19	15.71	+3	8.59	-7	76.17	+5	47.90	-8	26.05	-2	58.37	-8
20	15.48	+6	8.86	-5	75.62	+17	48.21	-7	26.07	0	58.72	-8
21	15.24	+7	9.12	-2	75.06	+25	48.51	-3	26.09	+1	59.07	-6
22	15.00	+7	9.38	+2	74.47	+26	48.82	+1	26.10	+2	59.42	-3
23	14.75	+4	9.63	+5	73.87	+21	49.12	+4	26.11	+3	59.77	+1
24	14.50	+1	9.89	+7	73.24	+10	49.42	+7	26.12	+3	60.13	+5
25	14.24	-3	10.14	+8	72.60	-4	49.72	+8	26.12	+2	60.48	+8
26	13.98	-6	10.39	+6	71.94	-18	50.02	+7	26.13	0	60.83	+9
27	13.71	-8	10.64	+3	71.25	-28	50.31	+5	26.13	-1	61.18	+8
28	13.44	-9	10.88	0	70.55	-33	50.61	+2	26.13	-2	61.54	+6
29	13.16	-8	11.12	-3	69.83	-32	50.90	-1	26.12	-3	61.89	+3
30	12.88	-6	11.36	-6	69.09	-27	51.19	-4	26.11	-3	62.25	0
31	12.59	-3	11.59	-7	68.32	-17	51.47	-6	26.10	-3	62.60	-3
Aug. 1	12.30	0	11.82	-7	67.54	-6	51.76	-6	26.09	-2	62.96	-5
2	12.00	+3	12.04	-6	66.75	+6	52.04	-6	26.07	-1	63.31	-6
3	11.70	+5	12.26	-4	65.93	+16	52.32	-5	26.05	0	63.67	-6
4	11.40	+6	12.48	-1	65.09	+24	52.60	-3	26.03	+1	64.02	-5
5	11.09	+7	12.70	+2	64.24	+28	52.87	0	26.01	+2	64.38	-3
6	10.78	+7	12.91	+4	63.37	+28	53.14	+2	25.98	+3	64.73	-1
7	10.46	+5	13.12	+6	62.48	+24	53.41	+5	25.95	+3	65.08	+1
8	10.14	+3	13.32	+7	61.57	+16	53.68	+6	25.92	+3	65.43	+4
9	9.81	0	13.52	+7	60.65	+5	53.94	+8	25.89	+2	65.78	+5
10	9.48	-3	13.72	+5	59.71	-7	54.20	+6	25.85	+1	66.14	+6
see δ, tg δ	86° 37' 0"	16.945	+16.915		89° 1' 40"	58.936	+58.927		82° 14' 50"	7.413	+7.345	
	10	16.958	+16.929		50	59.104	+59.096		60	7.416	+7.348	

Tag	43 Hev. Cephei 4 <sup>m</sup> .3				α Ursae minoris 2 <sup>m</sup> .0				Gr. 750 6 <sup>m</sup> .8			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	0 <sup>h</sup> 58 <sup>m</sup>	in 0.01	+85° 50'	in 0.01	1 <sup>h</sup> 34 <sup>m</sup>	in 0.01	+88° 53'	in 0.01	4 <sup>h</sup> 11 <sup>m</sup>	in 0.01	+85° 20'	in 0.01
Aug. 10	16.58	+5	33.25	+3	20.63	+19	22.32	+2	56.33	+5	43.94	-2
11	16.83	+3	33.49	+5	21.65	+11	22.52	+4	56.63	+5	43.92	+2
12	17.07	0	33.75	+6	22.66	-1	22.72	+6	56.93	+3	43.90	+5
13	17.31	-4	34.00	+5	23.66	-14	22.93	+6	57.23	+1	43.88	+7
14	17.55	-6	34.26	+3	24.66	-23	23.14	+4	57.53	-2	43.87	+7
15	17.78	-8	34.53	-1	25.64	-28	23.36	+1	57.83	-5	43.86	+5
16	18.01	-7	34.80	-4	26.62	-26	23.58	-3	58.13	-7	43.86	+2
17	18.24	-5	35.07	-6	27.59	-17	23.81	-5	58.43	-7	43.86	-1
18	18.47	-1	35.35	-7	28.55	-4	24.04	-7	58.73	-5	43.87	-5
19	18.69	+3	35.63	-5	29.50	+10	24.28	-6	59.04	-1	43.89	-7
20	18.91	+6	35.91	-3	30.44	+22	24.52	-4	59.34	+2	43.91	-7
21	19.13	+8	36.20	+1	31.37	+29	24.76	0	59.64	+6	43.93	-5
22	19.34	+8	36.49	+4	32.30	+29	25.01	+3	59.95	+8	43.96	-2
23	19.55	+6	36.78	+7	33.22	+24	25.26	+6	60.25	+9	43.99	+1
24	19.75	+4	37.08	+9	34.12	+14	25.52	+8	60.55	+8	44.03	+4
25	19.95	+1	37.38	+9	35.02	+3	25.78	+9	60.86	+6	44.07	+7
26	20.15	-2	37.68	+7	35.90	-8	26.04	+8	61.16	+3	44.12	+8
27	20.35	-5	37.99	+5	36.78	-17	26.31	+6	61.47	0	44.17	+7
28	20.54	-6	38.30	+2	37.64	-21	26.58	+3	61.78	-3	44.23	+6
29	20.73	-6	38.61	-1	38.49	-22	26.86	0	62.08	-5	44.29	+3
30	20.92	-6	38.93	-4	39.34	-20	27.14	-3	62.39	-6	44.36	+1
31	21.10	-4	39.25	-6	40.17	-15	27.42	-6	62.69	-6	44.43	-2
Sept. 1	21.28	-2	39.57	-8	40.99	-7	27.71	-7	62.99	-6	44.50	-5
2	21.46	+1	39.89	-8	41.80	+2	28.00	-8	63.30	-5	44.58	-7
3	21.63	+3	40.22	-7	42.60	+11	28.29	-7	63.60	-2	44.66	-8
4	21.80	+5	40.54	-5	43.38	+18	28.59	-6	63.91	0	44.75	-8
5	21.97	+6	40.88	-2	44.16	+22	28.89	-3	64.21	+2	44.84	-6
6	22.13	+6	41.21	+1	44.92	+20	29.19	0	64.51	+4	44.94	-3
7	22.29	+4	41.55	+4	45.67	+14	29.49	+3	64.81	+5	45.04	0
8	22.44	+1	41.89	+5	46.40	+3	29.80	+5	65.11	+4	45.15	+4
9	22.59	-3	42.23	+5	47.13	-9	30.11	+6	65.41	+1	45.26	+6
10	22.74	-6	42.58	+3	47.84	-21	30.43	+4	65.71	-2	45.38	+7
11	22.88	-8	42.93	+1	48.54	-27	30.75	+2	66.01	-4	45.50	+6
12	23.02	-8	43.28	-2	49.23	-28	31.07	-1	66.31	-6	45.63	+4
13	23.15	-6	43.63	-5	49.90	-21	31.40	-4	66.60	-7	45.76	0
14	23.28	-2	43.98	-6	50.56	-9	31.72	-6	66.90	-5	45.89	-3
15	23.40	+2	44.33	-6	51.20	+5	32.05	-6	67.19	-3	46.03	-6
16	23.52	+5	44.69	-4	51.83	+19	32.38	-4	67.48	+1	46.17	-8
sec δ, tg δ	85° 50' 30"	13.791	+13.754		88° 53' 20"	51.569	+51.560		85° 20' 40"	12.321	+12.280	
	40	13.800	+13.764		30	51.698	+51.689		50	12.328	+12.287	

# Obere Kulmination Greenwich

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Tag	51 Ilev. Cephei 5 <sup>m</sup> .2				1 Ilev. Draconis 4 <sup>m</sup> .3				ε Ursae minoris 4 <sup>m</sup> .2			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	7 <sup>h</sup> 4 <sup>m</sup>	in 0.01	+87° 9'	in 0.01	9 <sup>h</sup> 26 <sup>m</sup>	in 0.01	+81° 39'	in 0.01	16 <sup>h</sup> 53 <sup>m</sup>	in 0.01	+82° 10'	in 0.01
Aug. 10	47.81	+ 5	60.73	- 5	6.76	- 1	56.91	- 5	48.28	- 2	22.19	+ 4
11	48.13	+ 8	60.47	- 2	6.79	+ 1	56.58	- 5	48.13	- 2	22.30	+ 1
12	48.47	+ 8	60.22	+ 2	6.81	+ 2	56.24	- 4	47.97	- 1	22.40	- 3
13	48.80	+ 7	59.96	+ 5	6.84 6.87	+ 3 + 4	55.90 55.57	+ 1 + 2	47.80	- 1	22.50	- 6
14	49.14	+ 3	59.71	+ 7	6.90	+ 2	55.23	+ 5	47.64	0	22.59	- 7
15	49.49	- 2	59.46	+ 8	6.94	+ 1	54.89	+ 7	47.48	+ 2	22.68	- 7
16	49.84	- 6	59.21	+ 6	6.97	- 1	54.56	+ 7	47.31	+ 2	22.77	- 5
17	50.20	- 9	58.97	+ 3	7.01	- 3	54.22	+ 6	47.15	+ 2	22.85	- 2
18	50.56	- 9	58.73	- 1	7.05	- 4	53.88	+ 3	46.98	+ 2	22.93	+ 2
19	50.93	- 7	58.49	- 5	7.09	- 3	53.55	- 1	46.81	+ 1	23.00	+ 5
20	51.30	- 3	58.25	- 7	7.14	- 2	53.21	- 5	46.64	0	23.07	+ 7
21	51.68	+ 3	58.02	- 8	7.19	- 1	52.88	- 8	46.47	- 1	23.13	+ 7
22	52.07	+ 8	57.79	- 7	7.24	+ 1	52.54	- 9	46.30	- 3	23.18	+ 5
23	52.45	+ 12	57.57	- 5	7.29	+ 3	52.20	- 8	46.13	- 3	23.23	+ 2
24	52.85	+ 13	57.34	- 2	7.34	+ 4	51.87	- 6	45.96	- 3	23.28	- 1
25	53.25	+ 13	57.13	+ 1	7.39	+ 5	51.53	- 3	45.78	- 2	23.32	- 4
26	53.65	+ 10	56.91	+ 4	7.45	+ 4	51.19	0	45.61	- 2	23.35	- 6
27	54.06	+ 6	56.70	+ 6	7.51	+ 3	50.85	+ 3	45.44	- 1	23.38	- 7
28	54.47	+ 2	56.49	+ 6	7.57	+ 2	50.51	+ 5	45.27	0	23.41	- 7
29	54.89	- 3	56.29	+ 6	7.64	0	50.18	+ 6	45.10	+ 1	23.43	- 5
30	55.30	- 7	56.09	+ 5	7.71	- 1	49.85	+ 6	44.92	+ 2	23.44	- 3
31	55.73	- 10	55.89	+ 3	7.78	- 3	49.51	+ 6	44.75	+ 2	23.45	0
Sept. 1	56.16	- 11	55.70	0	7.85	- 4	49.18	+ 4	44.57	+ 2	23.46	+ 2
2	56.59	- 11	55.51	- 2	7.92	- 4	48.85	+ 2	44.40	+ 2	23.46	+ 5
3	57.02	- 10	55.32	- 5	7.99	- 4	48.52	0	44.22	+ 1	23.45	+ 7
4	57.47	- 6	55.14	- 6	8.07	- 3	48.19	- 3	44.05	0	23.44	+ 8
5	57.91	- 2	54.96	- 6	8.15	- 2	47.87	- 4	43.87	- 1	23.42	+ 7
6	58.36	+ 2	54.78	- 5	8.23	0	47.54	- 5	43.70	- 1	23.40	+ 5
7	58.81	+ 6	54.61	- 3	8.31	+ 1	47.21	- 4	43.52	- 2	23.38	+ 2
8	59.26	+ 8	54.44	+ 1	8.40	+ 3	46.89	- 2	43.35	- 1	23.35	- 1
9	59.72	+ 7	54.28	+ 4	8.49	+ 3	46.57	+ 1	43.17	- 1	23.31	- 5
10	60.18	+ 4	54.12	+ 7	8.58	+ 3	46.25	+ 4	43.00	0	23.27	- 7
11	60.65	0	53.96	+ 8	8.67	+ 2	45.93	+ 6	42.82	+ 1	23.23	- 7
12	61.11	- 5	53.81	+ 7	8.77	0	45.62	+ 7	42.64	+ 2	23.18	- 6
13	61.59	- 8	53.66	+ 5	8.86	- 2	45.30	+ 6	42.46	+ 2	23.12	- 3
14	62.06	- 9	53.52	+ 1	8.96	- 3	44.99	+ 4	42.28	+ 2	23.06	+ 1
15	62.54	- 8	53.38	- 3	9.06	- 3	44.68	0	42.10	+ 1	23.00	+ 4
16	63.02	- 4	53.25	- 7	9.16	- 3	44.37	- 4	41.92	0	22.93	+ 6

sec δ, tg δ	87° 9' 50"	20.210	+20.186	81° 39' 50"	6.898	+6.825	82° 10' 20"	7.342	+7.274
	60	20.230	+20.206	60	6.900	+6.827	30	7.345	+7.277



Tag	δ Ursae minoris 4 <sup>m</sup> .3				λ Ursae minoris 6 <sup>m</sup> .8				76 Draconis 6 <sup>m</sup> .0			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	17 <sup>h</sup> 56 <sup>m</sup>	in 0.01	+86° 37'	in 0.01	18 <sup>h</sup> 55 <sup>m</sup>	in 0.01	+89° 1'	in 0.01	20 <sup>h</sup> 48 <sup>m</sup>	in 0.01	+82° 15'	in 0.01
Aug. 10	69.48	-3	13.72	+5	59.71	-7	54.20	+6	25.85	+1	6.14	+6
11	69.15	-5	13.91	+2	58.75	-16	54.46	+3	25.81	0	6.49	+5
12	68.81	-5	14.10	-2	57.78	-21	54.72	0	25.77	-2	6.84	+2
13	68.47	-4	14.28	-5	56.79	-20	54.97	-4	25.72	-3	7.19	-1
14	68.12	-2	14.46	-7	55.78	-13	55.22	-7	25.68	-3	7.54	-4
15	67.78	+1	14.63	-8	54.76	-2	55.47	-8	25.63	-2	7.88	-7
16	67.42	+4	14.80	-6	53.72	+10	55.71	-7	25.57	-1	8.23	-8
17	67.07	+6	14.97	-3	52.67	+20	55.95	-5	25.52	0	8.58	-7
18	66.71	+6	15.13	0	51.60	+24	56.19	-1	25.46	+2	8.92	-4
19	66.35	+5	15.29	+4	50.52	+22	56.42	+3	25.40	+3	9.26	0
20	65.98	+2	15.44	+7	49.42	+13	56.65	+6	25.34	+3	9.61	+4
21	65.61	-2	15.60	+8	48.31	0	56.88	+8	25.28	+2	9.94	+7
22	65.24	-5	15.74	+7	47.18	-13	57.10	+8	25.21	+1	10.28	+9
23	64.86	-8	15.88	+4	46.04	-25	57.32	+6	25.14	0	10.62	+9
24	64.49	-9	16.02	+1	44.88	-32	57.54	+3	25.07	-2	10.95	+7
25	64.11	-8	16.16	-2	43.71	-33	57.75	0	24.99	-2	11.28	+4
26	63.72	-7	16.28	-5	42.53	-29	57.96	-3	24.91	-3	11.61	+1
27	63.34	-4	16.41	-6	41.33	-21	58.17	-5	24.83	-3	11.94	-2
28	62.95	-1	16.53	-7	40.12	-10	58.37	-6	24.75	-2	12.27	-5
29	62.56	+2	16.64	-6	38.90	+2	58.57	-6	24.66	-2	12.60	-6
30	62.17	+4	16.75	-4	37.66	+13	58.76	-5	24.58	0	12.92	-6
31	61.77	+6	16.86	-2	36.41	+21	58.95	-4	24.49	+1	13.24	-6
Sept. 1	61.37	+7	16.96	0	35.15	+27	59.14	-1	24.40	+2	13.56	-4
2	60.97	+7	17.06	+3	33.88	+29	59.32	+1	24.30	+3	13.88	-2
3	60.57	+6	17.15	+5	32.60	+27	59.50	+4	24.21	+3	14.19	0
4	60.17	+4	17.24	+7	31.30	+21	59.67	+6	24.11	+3	14.50	+3
5	59.77	+1	17.32	+7	30.00	+11	59.84	+7	24.01	+3	14.81	+5
6	59.36	-2	17.40	+6	28.68	0	60.01	+6	23.91	+2	15.12	+5
7	58.95	-4	17.48	+3	27.36	-11	60.17	+4	23.81	0	15.42	+5
8	58.54	-5	17.55	0	26.03	-18	60.33	+1	23.70	-1	15.72	+3
9	58.12	-4	17.62	-4	24.68	-19	60.48	-3	23.60	-2	16.02	0
10	57.71	-2	17.68	-6	23.33	-15	60.63	-6	23.49	-3	16.32	-4
11	57.30	0	17.73	-8	21.96	-6	60.78	-8	23.38	-2	16.61	-6
12	56.88	+3	17.78	-7	20.59	+6	60.92	-8	23.26	-1	16.90	-8
13	56.46	+5	17.83	-5	19.21	+16	61.06	-6	23.15	0	17.19	-7
14	56.04	+6	17.87	-1	17.82	+22	61.19	-2	23.03	+1	17.47	-5
15	55.62	+5	17.90	+3	16.42	+22	61.32	+1	22.91	+2	17.75	-1
16	55.20	+3	17.93	+6	15.01	+16	61.44	+5	22.79	+3	18.03	+3
sec δ, tg δ	86° 37' 10"	16.958	+16.929		89° 1' 50"	59.104	+59.096		82° 15' 10"	7.418	+7.351	
	20	16.972	+16.943		60	59.274	+59.266		20	7.421	+7.353	

# Obere Kulmination Greenwich

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Tag	43 Hev. Cephei 4 <sup>m</sup> .3				α Ursae minoris 2 <sup>m</sup> .0				Gr. 750 6 <sup>m</sup> .8			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	0 <sup>h</sup> 58 <sup>m</sup>	in 0.01	+85° 50'	in 0.01	1 <sup>h</sup> 34 <sup>m</sup>	in 0.01	+88° 53'	in 0.01	4 <sup>h</sup> 12 <sup>m</sup>	in 0.01	+85° 20'	in 0.01
Sept. 16	23.52	+5	44.69	-4	51.83	+19	32.38	-4	7.48	+1	46.17	-8
17	23.64	+8	45.05	0	52.45	+28	32.71	-1	7.77	+5	46.32	-6
18	23.75	+8	45.41	+4	53.05	+31	33.05	+2	8.06	+8	46.47	-3
19	23.86	+8	45.77	+7	53.64	+28	33.39	+6	8.35	+9	46.63	0
20	23.97	+5	46.13	+9	54.21	+19	33.73	+8	8.63	+9	46.79	+3
21	24.07	+2	46.50	+9	54.77	+8	34.07	+9	8.92	+7	46.95	+6
22	24.17	-1	46.86	+8	55.32	-4	34.42	+9	9.20	+4	47.12	+7
23	24.26	-4	47.23	+6	55.85	-13	34.76	+7	9.49	+1	47.29	+8
24	24.35	-6	47.59	+3	56.37	-20	35.11	+4	9.77	-2	47.47	+7
25	24.43	-6	47.96	0	56.87	-22	35.47	+1	10.05	-4	47.65	+5
26	24.51	-6	48.33	-3	57.36	-21	35.82	-2	10.33	-6	47.84	+2
27	24.59	-5	48.70	-5	57.83	-17	36.18	-5	10.60	-6	48.03	-1
28	24.66	-3	49.08	-7	58.29	-10	36.53	-7	10.88	-6	48.22	-4
29	24.72	0	49.45	-8	58.73	-2	36.89	-8	11.15	-5	48.42	-6
30	24.79	+2	49.83	-7	59.15	+8	37.26	-8	11.42	-3	48.62	-8
Okt. 1	24.84	+4	50.20	-6	59.56	+15	37.62	-7	11.68	-1	48.83	-8
2	24.90	+6	50.58	-3	59.95	+20	37.98	-4	11.95	+1	49.03	-7
3	24.95	+6	50.95	-1	60.33	+21	38.35	-2	12.21	+3	49.25	-5
4	24.99	+5	51.33	+2	60.69	+17	38.71	+1	12.47	+4	49.46	-2
5	25.03	+2	51.70	+4	61.04	+7	39.08	+4	12.73	+4	49.68	+2
6	25.07	-1	52.08	+5	61.37	-5	39.45	+5	12.99	+2	49.90	+5
7	25.10	-5	52.46	+4	61.68	-17	39.82	+4	13.25	-1	50.13	+7
8	25.13	-7	52.83	+1	61.98	-26	40.19	+3	13.50	-4	50.36	+7
9	25.15	-8	53.21	-2	62.26	-29	40.57	-1	13.75	-6	50.60	+5
10	25.17	-7	53.58	-4	62.52	-26	40.94	-3	13.99	-7	50.83	+2
11	25.18	-4	53.96	-6	62.76	-16	41.31	-6	14.24	-6	51.08	-2
12	25.19	0	54.33	-6	62.99	-2	41.69	-6	14.48	-4	51.32	-5
13	25.20	+4	54.71	-5	63.20	+13	42.06	-5	14.72	0	51.57	-7
14	25.20	+7	55.08	-1	63.40	+25	42.44	-2	14.96	+3	51.82	-6
15	25.20	+8	55.46	+2	63.57	+31	42.81	+1	15.19	+7	52.08	-4
16	25.19	+8	55.84	+6	63.73	+31	43.19	+5	15.42	+9	52.34	-1
17	25.17	+6	56.22	+8	63.87	+24	43.57	+8	15.65	+10	52.60	+2
18	25.15	+4	56.59	+10	64.00	+14	43.94	+9	15.87	+9	52.87	+5
19	25.13	0	56.96	+9	64.10	+2	44.32	+9	16.10	+6	53.14	+7
20	25.10	-3	57.34	+8	64.19	-9	44.70	+8	16.31	+3	53.42	+8
21	25.07	-5	57.71	+5	64.26	-17	45.08	+6	16.53	0	53.69	+7
22	25.03	-6	58.08	+2	64.32	-21	45.46	+2	16.74	-3	53.97	+6
23	24.99	-6	58.45	-1	64.35	-21	45.83	-1	16.95	-5	54.25	+3

see 5, tg 5

85° 50' 50"	13.809	+13.773	88° 53' 30"	51.698	+51.689	85° 20' 40"	12.321	+12.280
60	13.818	+13.782	40	51.829	+51.819	50	12.328	+12.287

Tag	51 Hev. Cephei 5 <sup>m</sup> .2				1 Hev. Draconis 4 <sup>m</sup> .3				ε Ursae minoris 4 <sup>m</sup> .2			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	7 <sup>h</sup> 5 <sup>m</sup>	in 0.01	+87° 9'	in 0.01	9 <sup>h</sup> 26 <sup>m</sup>	in 0.01	+81° 39'	in 0.01	16 <sup>h</sup> 53 <sup>m</sup>	in 0.01	+82° 10'	in 0.01
Sept. 16	3.02	- 4	53.25	- 7	9.16	- 3	44.37	- 4	41.92	0	22.93	+ 6
17	3.50	+ 1	53.12	- 8	9.26	- 1	44.06	- 7	41.75	- 1	22.85	+ 7
18	3.99	+ 7	52.99	- 8	9.37	+ 1	43.76	- 9	41.57	- 2	22.77	+ 6
19	4.48	+ 11	52.87	- 6	9.47	+ 2	43.45	- 9	41.40	- 3	22.68	+ 4
20	4.97	+ 13	52.75	- 3	9.58	+ 4	43.15	- 8	41.22	- 3	22.59	0
21	5.46	+ 14	52.64	0	9.69	+ 5	42.86	- 5	41.05	- 3	22.50	- 3
22	5.96	+ 12	52.53	+ 3	9.80	+ 5	42.56	- 2	40.88	- 2	22.40	- 6
23	6.45	+ 8	52.43	+ 5	9.92	+ 4	42.27	+ 1	40.70	- 1	22.29	- 7
24	6.95	+ 4	52.33	+ 6	10.03	+ 3	41.98	+ 4	40.53	0	22.18	- 7
25	7.45	- 1	52.23	+ 6	10.15	+ 1	41.69	+ 6	40.36	+ 1	22.07	- 6
26	7.95	- 5	52.14	+ 5	10.27	- 1	41.41	+ 6	40.18	+ 2	21.95	- 4
27	8.46	- 9	52.05	+ 4	10.39	- 2	41.13	+ 6	40.01	+ 2	21.82	- 2
28	8.96	- 11	51.97	+ 1	10.51	- 3	40.85	+ 5	39.84	+ 2	21.69	+ 1
29	9.47	- 11	51.89	- 1	10.63	- 4	40.57	+ 3	39.67	+ 2	21.55	+ 4
30	9.98	- 10	51.82	- 4	10.76	- 4	40.30	+ 1	39.50	+ 2	21.41	+ 6
Okt. 1	10.49	- 8	51.75	- 6	10.89	- 4	40.03	- 2	39.33	+ 1	21.26	+ 7
2	11.00	- 4	51.69	- 6	11.02	- 3	39.76	- 4	39.17	0	21.11	+ 8
3	11.51	0	51.63	- 6	11.15	- 1	39.49	- 5	39.00	- 1	20.95	+ 6
4	12.02	+ 4	51.57	- 4	11.28	+ 1	39.23	- 4	38.84	- 1	20.79	+ 4
5	12.54	+ 6	51.52	- 1	11.41	+ 2	38.97	- 3	38.67	- 1	20.63	+ 1
6	13.05	+ 6	51.47	+ 3	11.55	+ 3	38.71	0	38.51	- 1	20.46	- 3
7	13.57	+ 5	51.43	+ 6	11.69	+ 3	38.46	+ 3	38.35	0	20.29	- 6
8	14.08	+ 1	51.39	+ 8	11.83	+ 2	38.21	+ 6	38.19	+ 1	20.11	- 7
9	14.60	- 4	51.36	+ 8	11.97	0	37.96	+ 8	38.03	+ 2	19.93	- 7
10	15.12	- 7	51.33	+ 6	12.11	- 1	37.72	+ 7	37.87	+ 2	19.74	- 4
11	15.64	- 9	51.31	+ 3	12.26	- 3	37.48	+ 5	37.71	+ 3	19.55	- 1
12	16.15	- 9	51.29	- 1	12.40	- 3	37.25	+ 2	37.56	+ 2	19.35	+ 3
13	16.67	- 6	51.28	- 5	12.55	- 3	37.01	- 2	37.40	+ 1	19.15	+ 5
14	17.19	- 1	51.28	- 8	12.69	- 2	36.79	- 6	37.25	- 1	18.95	+ 7
15	17.71	+ 5	51.28	- 8	12.84	0	36.56	- 9	37.09	- 2	18.74	+ 7
16	18.23	+ 10	51.28	- 7	12.99	+ 2	36.34	- 10	36.94	- 3	18.53	+ 4
17	18.75	+ 13	51.29	- 5	13.14	+ 4	36.12	- 9	36.79	- 3	18.31	+ 2
18	19.27	+ 15	51.30	- 2	13.30	+ 5	35.91	- 7	36.64	- 3	18.09	- 2
19	19.78	+ 14	51.32	+ 2	13.45	+ 5	35.70	- 4	36.50	- 3	17.86	- 5
20	20.30	+ 10	51.34	+ 4	13.60	+ 4	35.50	0	36.35	- 2	17.63	- 6
21	20.81	+ 6	51.37	+ 6	13.76	+ 3	35.30	+ 3	36.21	0	17.39	- 7
22	21.33	+ 1	51.40	+ 6	13.92	+ 2	35.11	+ 5	36.07	+ 1	17.15	- 7
23	21.84	- 3	51.44	+ 6	14.08	0	34.92	+ 6	35.93	+ 1	16.91	- 5
see δ, 19 δ	87° 9' 50"	20.210	+20.186		81° 39' 30"	6.893	+6.820		82° 10' 20"	7.342	+7.274	
	60	20.230	+20.206		40	6.895	+6.822		30	7.345	+7.277	



Tag	♁ Ursae minoris 4 <sup>m</sup> .3				λ Ursae minoris 6 <sup>m</sup> .8				76 Draconis 6 <sup>m</sup> .0			
	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.
1923	17 <sup>h</sup> 56 <sup>m</sup>	in 0.01	+86° 37'	in 0.01	18 <sup>h</sup> 54 <sup>m</sup>	in 0.01	+89° 2'	in 0.01	20 <sup>h</sup> 48 <sup>m</sup>	in 0.01	+82° 15'	in 0.01
Sept. 16	55.20	+ 3	17.93	+ 6	75.01	+16	1.44	+ 5	22.79	+ 3	18.03	+ 3
17	54.78	- 1	17.96	+ 8	73.60	+ 4	1.56	+ 8	22.67	+ 2	18.31	+ 7
18	54.36	- 4	17.98	+ 7	72.18	-10	1.67	+ 8	22.54	+ 1	18.58	+ 9
19	53.93	- 7	18.00	+ 6	70.75	-23	1.78	+ 7	22.42	0	18.85	+ 9
20	53.51	- 9	18.02	+ 3	69.31	-32	1.88	+ 5	22.29	- 1	19.11	+ 8
21	53.09	- 9	18.03	- 1	67.87	-35	1.98	+ 1	22.16	- 2	19.37	+ 5
22	52.66	- 8	18.03	- 4	66.42	-33	2.08	- 2	22.02	- 3	19.62	+ 2
23	52.24	- 5	18.03	- 6	64.97	-26	2.17	- 4	21.89	- 3	19.88	- 1
24	51.82	- 2	18.02	- 7	63.51	-15	2.26	- 6	21.75	- 3	20.12	- 4
25	51.39	+ 1	18.00	- 7	62.05	- 3	2.34	- 7	21.61	- 2	20.37	- 5
26	50.97	+ 3	17.98	- 5	60.58	+ 8	2.42	- 6	21.47	- 1	20.61	- 6
27	50.54	+ 5	17.95	- 3	59.11	+18	2.50	- 4	21.33	0	20.85	- 6
28	50.12	+ 7	17.92	0	57.63	+25	2.56	- 2	21.19	+ 1	21.09	- 5
29	49.69	+ 7	17.89	+ 2	56.15	+28	2.62	0	21.04	+ 2	21.32	- 3
30	49.27	+ 6	17.85	+ 5	54.66	+28	2.68	+ 3	20.89	+ 3	21.54	- 1
Okt. 1	48.85	+ 5	17.81	+ 7	53.17	+24	2.73	+ 5	20.75	+ 3	21.77	+ 2
2	48.43	+ 2	17.76	+ 7	51.68	+16	2.78	+ 6	20.60	+ 3	21.98	+ 4
3	48.00	0	17.71	+ 6	50.19	+ 5	2.82	+ 6	20.45	+ 2	22.20	+ 5
4	47.58	- 2	17.65	+ 5	48.69	- 5	2.86	+ 5	20.30	+ 1	22.41	+ 5
5	47.16	- 4	17.58	+ 1	47.20	-13	2.89	+ 2	20.15	0	22.61	+ 4
6	46.74	- 4	17.51	- 2	45.70	-17	2.92	- 1	19.99	- 2	22.81	+ 1
7	46.32	- 2	17.44	- 5	44.20	-15	2.95	- 5	19.84	- 2	23.01	- 2
8	45.90	0	17.36	- 7	42.70	- 8	2.97	- 7	19.68	- 3	23.20	- 6
9	45.48	+ 3	17.28	- 8	41.20	+ 3	2.98	- 8	19.53	- 2	23.39	- 8
10	45.07	+ 5	17.19	- 6	39.70	+14	2.99	- 7	19.37	- 1	23.57	- 8
11	44.65	+ 6	17.10	- 3	38.19	+22	2.99	- 5	19.21	+ 1	23.75	- 7
12	44.24	+ 6	17.00	+ 1	36.69	+24	2.99	0	19.05	+ 2	23.92	- 3
13	43.83	+ 4	16.90	+ 5	35.19	+19	2.98	+ 3	18.89	+ 2	24.09	+ 1
14	43.42	+ 1	16.79	+ 7	33.68	+ 9	2.97	+ 7	18.72	+ 3	24.25	+ 5
15	43.02	- 3	16.67	+ 8	32.18	- 5	2.95	+ 8	18.56	+ 2	24.41	+ 8
16	42.61	- 6	16.55	+ 6	30.69	-19	2.93	+ 8	18.40	+ 1	24.56	+ 9
17	42.21	- 9	16.43	+ 4	29.19	-30	2.91	+ 6	18.23	- 1	24.71	+ 9
18	41.81	-10	16.30	+ 1	27.70	-36	2.88	+ 3	18.06	- 2	24.85	+ 7
19	41.41	- 9	16.16	- 3	26.21	-36	2.84	0	17.89	- 3	24.99	+ 4
20	41.01	- 7	16.03	- 5	24.72	-31	2.80	- 3	17.72	- 3	25.13	+ 1
21	40.62	- 4	15.88	- 7	23.24	-21	2.75	- 5	17.55	- 3	25.26	- 2
22	40.23	- 1	15.73	- 7	21.76	- 9	2.69	- 6	17.38	- 2	25.38	- 5
23	39.84	+ 2	15.58	- 6	20.28	+ 3	2.63	- 6	17.21	- 1	25.50	- 6
sec δ, tg δ	86° 37' 10"	16.958	+16.929		89° 2' 0"	59.274	+59.266		82° 15' 20"	7.421	+7.353	
	20	16.972	+16.943		10	59.445	+59.437		30	7.424	+7.356	

Tag	43 Ilev. Cephei 4 <sup>m</sup> .3				α Ursae minoris 2 <sup>m</sup> .0				Gr. 750 6 <sup>m</sup> .8			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	0 <sup>h</sup> 58 <sup>m</sup>	in 0.01	+85° 50'	in 0.01	1 <sup>h</sup> 34 <sup>m</sup>	in 0.01	+88° 53'	in 0.01	4 <sup>h</sup> 12 <sup>m</sup>	in 0.01	+85° 20'	in 0.01
Okt. 23	24.99	-6	58.45	-1	64.35	-21	45.83	-1	16.95	-5	54.25	+3
24	24.94	-5	58.82	-4	64.37	-18	46.21	-3	17.15	-6	54.53	0
25	24.89	-3	59.18	-6	64.38	-13	46.58	-6	17.35	-6	54.82	-3
26	24.84	-1	59.55	-7	64.36	-4	46.96	-7	17.55	-5	55.11	-5
27	24.78	+2	59.91	-7	64.32	+5	47.33	-8	17.74	-4	55.40	-7
28	24.71	+4	60.28	-6	64.27	+13	47.71	-7	17.93	-2	55.70	-8
29	24.65	+5	60.64	-4	64.20	+19	48.08	-5	18.12	+1	55.99	-7
30	24.57	+6	61.00	-2	64.11	+22	48.46	-3	18.30	+3	56.29	-6
31	24.49	+5	61.35	+1	64.00	+19	48.83	0	18.48	+4	56.60	-3
Nov. 1	24.41	+3	61.71	+3	63.87	+12	49.20	+3	18.66	+4	56.90	0
2	24.33	0	62.06	+4	63.73	0	49.57	+4	18.83	+2	57.21	+4
3	24.23	-4	62.41	+4	63.57	-13	49.93	+4	19.00	0	57.52	+6
4	24.14	-7	62.76	+2	63.39	-24	50.30	+3	19.17	-3	57.83	+7
5	24.04	-8	63.11	-1	63.19	-30	50.67	0	19.33	-6	58.15	+5
6	23.93	-8	63.45	-4	62.97	-30	51.03	-3	19.49	-8	58.47	+3
7	23.82	-6	63.79	-6	62.73	-22	51.39	-5	19.64	-8	58.78	-1
8	23.71	-2	64.13	-7	62.48	-9	51.76	-7	19.79	-6	59.10	-4
9	23.59	+2	64.47	-6	62.20	+6	52.12	-7	19.93	-3	59.42	-6
10	23.46	+6	64.80	-3	61.91	+20	52.48	-4	20.07	+2	59.75	-7
11	23.34	+8	65.13	+1	61.60	+28	52.84	-1	20.20	+6	60.07	-6
12	23.20	+9	65.46	+4	61.28	+32	53.19	+3	20.33	+9	60.40	-3
13	23.07	+7	65.78	+8	60.93	+28	53.54	+7	20.46	+11	60.73	+1
14	22.93	+5	66.10	+10	60.57	+19	53.89	+9	20.58	+9	61.06	+4
15	22.78	+2	66.42	+10	60.19	+7	54.24	+10	20.70	+8	61.39	+7
16	22.63	-1	66.74	+9	59.79	-4	54.58	+9	20.81	+5	61.72	+8
17	22.48	-4	67.05	+6	59.37	-14	54.93	+7	20.93	+2	62.06	+8
18	22.32	-6	67.36	+3	58.94	-19	55.27	+4	21.04	-1	62.39	+7
19	22.16	-6	67.66	0	58.48	-21	55.61	+1	21.14	-4	62.73	+4
20	21.99	-5	67.96	-3	58.01	-19	55.94	-2	21.23	-5	63.07	+2
21	21.82	-4	68.26	-5	57.52	-14	56.27	-5	21.33	-6	63.40	-1
22	21.65	-2	68.56	-7	57.02	-7	56.60	-6	21.41	-5	63.74	-4
23	21.47	+1	68.85	-7	56.49	+2	56.93	-7	21.50	-4	64.09	-6
24	21.29	+3	69.14	-6	55.95	+10	57.25	-7	21.58	-2	64.43	-7
25	21.10	+5	69.42	-5	55.39	+18	57.57	-6	21.64	0	64.77	-8
26	20.91	+6	69.70	-2	54.81	+22	57.89	-3	21.71	+2	65.11	-6
27	20.71	+6	69.97	0	54.22	+21	58.20	-1	21.77	+4	65.45	-4
28	20.52	+4	70.24	+3	53.61	+16	58.51	+2	21.83	+4	65.79	-1
29	20.31	+1	70.50	+4	52.99	+5	58.81	+4	21.88	+3	66.14	+2
see λ, tg δ	85° 50' 60"	13.818	+13.782	88° 53' 50"	51.959	+51.949	85° 20' 50"	12.328	+12.287			
	70	13.828	+13.791	60	52.090	+52.081	60	12.335	+12.295			

# Obere Kulmination Greenwich

303

Tag	5 Ilev. Cephei 5 <sup>m</sup> .2				I Ilev. Draconis 4 <sup>m</sup> .3				ε Ursae minoris 4 <sup>m</sup> .2			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	7 <sup>h</sup> 5 <sup>m</sup>	in 0.01	+87° 9'	in 0.01	9 <sup>h</sup> 26 <sup>m</sup>	in 0.01	+81° 39'	in 0.01	16 <sup>h</sup> 53 <sup>m</sup>	in 0.01	+82° 10'	in 0.01
Okt. 23	21.84	- 3	51.44	+ 6	14.08	0	34.92	+ 6	35.93	+ 1	16.91	- 5
24	22.35	- 7	51.49	+ 4	14.24	- 2	34.73	+ 6	35.80	+ 2	16.66	- 3
25	22.86	- 9	51.54	+ 2	14.40	- 3	34.55	+ 5	35.66	+ 2	16.41	0
26	23.37	- 11	51.59	- 1	14.56	- 4	34.37	+ 3	35.53	+ 2	16.15	+ 3
27	23.88	- 11	51.65	- 3	14.72	- 4	34.20	+ 1	35.40	+ 2	15.89	+ 5
28	24.38	- 9	51.71	- 5	14.88	- 4	34.03	- 1	35.27	+ 1	15.62	+ 7
29	24.88	- 5	51.78	- 6	15.05	- 3	33.87	- 3	35.14	0	15.36	+ 8
30	25.38	- 2	51.85	- 6	15.21	- 2	33.71	- 4	35.02	- 1	15.08	+ 7
31	25.88	+ 2	51.93	- 5	15.38	0	33.55	- 5	34.90	- 1	14.81	+ 5
Nov. 1	26.38	+ 5	52.01	- 2	15.54	+ 1	33.40	- 3	34.78	- 1	14.53	+ 2
2	26.88	+ 6	52.10	+ 2	15.71	+ 2	33.25	- 1	34.66	- 1	14.25	- 1
3	27.37	+ 5	52.19	+ 5	15.88	+ 3	33.11	+ 2	34.54	0	13.96	- 5
4	27.86	+ 2	52.29	+ 8	16.05	+ 2	32.97	+ 6	34.42	+ 1	13.67	- 7
5	28.35	- 3	52.39	+ 8	16.22	+ 1	32.84	+ 8	34.31	+ 2	13.38	- 7
6	28.84	- 7	52.50	+ 7	16.39	- 1	32.72	+ 9	34.20	+ 2	13.08	- 5
7	29.32	- 10	52.61	+ 4	16.56	- 3	32.60	+ 7	34.09	+ 3	12.78	- 3
8	29.80	- 11	52.73	+ 1	16.74	- 3	32.48	+ 4	33.98	+ 2	12.48	+ 1
9	30.28	- 8	52.85	- 3	16.91	- 3	32.37	0	33.88	+ 1	12.17	+ 4
10	30.75	- 4	52.98	- 7	17.08	- 3	32.27	- 4	33.78	0	11.86	+ 7
11	31.22	+ 2	53.11	- 8	17.25	- 1	32.17	- 8	33.68	- 1	11.55	+ 7
12	31.68	+ 8	53.25	- 8	17.43	+ 1	32.07	- 10	33.59	- 2	11.23	+ 5
13	32.14	+ 12	53.40	- 6	17.60	+ 3	31.98	- 9	33.49	- 3	10.92	+ 3
14	32.60	+ 15	53.55	- 3	17.78	+ 4	31.90	- 8	33.40	- 3	10.60	- 1
15	33.06	+ 15	53.70	0	17.95	+ 5	31.82	- 5	33.31	- 3	10.28	- 4
16	33.51	+ 12	53.86	+ 3	18.12	+ 5	31.75	- 2	33.23	- 2	9.95	- 6
17	33.96	+ 9	54.02	+ 5	18.30	+ 4	31.68	+ 1	33.15	- 1	9.62	- 8
18	34.40	+ 4	54.18	+ 6	18.47	+ 3	31.62	+ 4	33.07	0	9.29	- 7
19	34.84	- 1	54.35	+ 6	18.65	+ 1	31.57	+ 5	32.99	+ 1	8.95	- 6
20	35.27	- 5	54.53	+ 5	18.82	- 1	31.52	+ 6	32.91	+ 2	8.62	- 4
21	35.70	- 8	54.70	+ 3	19.00	- 2	31.47	+ 5	32.84	+ 2	8.28	- 1
22	36.13	- 10	54.89	0	19.17	- 3	31.43	+ 4	32.77	+ 2	7.94	+ 2
23	36.55	- 10	55.07	- 2	19.35	- 4	31.40	+ 2	32.70	+ 2	7.60	+ 4
24	36.97	- 9	55.26	- 4	19.52	- 4	31.37	0	32.64	+ 1	7.25	+ 6
25	37.38	- 6	55.46	- 6	19.70	- 3	31.34	- 3	32.58	0	6.91	+ 7
26	37.79	- 2	55.66	- 7	19.87	- 2	31.32	- 5	32.52	- 1	6.56	+ 7
27	38.19	+ 1	55.87	- 6	20.05	- 1	31.31	- 5	32.47	- 1	6.21	+ 6
28	38.59	+ 5	56.08	- 3	20.22	+ 1	31.31	- 4	32.41	- 2	5.86	+ 3
29	38.98	+ 6	56.29	0	20.40	+ 2	31.31	- 2	32.37	- 1	5.50	0

sec δ, tg δ

87° 9' 50"	20.210	+20.186	81° 39' 30"	6.893	+ 6.820	82° 10' 10"	7.340	+7.271
60	20.230	+20.206	40	6.895	+ 6.822	20	7.342	+7.274



Tag	♁ Ursae minoris 4 <sup>m</sup> .3				λ Ursae minoris 6 <sup>m</sup> .8				76 Draconis 6 <sup>m</sup> .0			
	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.
1923	17 <sup>h</sup> 56 <sup>m</sup>	in 0.01	+86° 37'	in 0.01	18 <sup>h</sup> 53 <sup>m</sup>	in 0.01	+89° 1'	in 0.01	20 <sup>h</sup> 48 <sup>m</sup>	in 0.01	+82° 15'	in 0.01
Okt. 23	39.84	+ 2	15.58	- 6	80.28	+ 3	62.63	- 6	17.21	- I	25.50	- 6
24	39.46	+ 4	15.43	- 4	78.81	+13	62.57	- 5	17.04	0	25.61	- 6
25	39.08	+ 6	15.26	- I	77.35	+21	62.50	- 3	16.87	+ I	25.72	- 5
26	38.70	+ 7	15.10	+ I	75.89	+26	62.43	- I	16.70	+ 2	25.82	- 4
27	38.32	+ 6	14.93	+ 4	74.44	+27	62.35	+ 2	16.53	+ 3	25.92	- I
28	37.95	+ 5	14.75	+ 6	72.99	+25	62.26	+ 4	16.36	+ 3	26.01	+ I
29	37.58	+ 3	14.57	+ 7	71.55	+18	62.17	+ 6	16.19	+ 3	26.10	+ 3
30	37.21	+ I	14.39	+ 7	70.12	+ 9	62.08	+ 7	16.01	+ 2	26.18	+ 5
31	36.85	- 2	14.20	+ 6	68.69	- I	61.98	+ 6	15.84	+ I	26.26	+ 5
Nov. 1	36.49	- 3	14.01	+ 3	67.27	-10	61.88	+ 3	15.67	0	26.33	+ 4
2	36.14	- 4	13.81	- I	65.86	-15	61.77	0	15.49	- I	26.39	+ 2
3	35.79	- 3	13.61	- 4	64.46	-15	61.66	- 3	15.32	- 2	26.45	- I
4	35.44	- I	13.40	- 7	63.06	- 9	61.54	- 6	15.14	- 2	26.50	- 5
5	35.09	+ 2	13.19	- 8	61.68	+ I	61.42	- 8	14.97	- 2	26.55	- 8
6	34.75	+ 5	12.98	- 7	60.30	+13	61.29	- 8	14.80	- I	26.59	- 9
7	34.41	+ 7	12.76	- 5	58.93	+22	61.15	- 6	14.63	0	26.63	- 8
8	34.08	+ 7	12.54	- I	57.58	+27	61.01	- 2	14.45	+ I	26.66	- 5
9	33.75	+ 6	12.31	+ 3	56.23	+25	60.86	+ I	14.28	+ 2	26.68	- I
10	33.43	+ 3	12.08	+ 6	54.90	+16	60.71	+ 5	14.10	+ 3	26.70	+ 3
11	33.12	- I	11.84	+ 8	53.57	+ 2	60.56	+ 8	13.93	+ 2	26.71	+ 7
12	32.80	- 5	11.60	+ 7	52.26	-13	60.40	+ 8	13.75	+ I	26.71	+ 9
13	32.49	- 8	11.35	+ 5	50.95	-26	60.24	+ 7	13.58	0	26.71	+10
14	32.19	-10	11.10	+ 2	49.66	-36	60.07	+ 4	13.40	- 2	26.71	+ 8
15	31.89	-10	10.85	- I	48.39	-38	59.90	+ I	13.23	- 3	26.70	+ 5
16	31.59	- 8	10.59	- 4	47.12	-35	59.72	- 2	13.05	- 3	26.68	+ 2
17	31.30	- 6	10.33	- 6	45.87	-27	59.53	- 4	12.88	- 3	26.66	- I
18	31.02	- 2	10.07	- 7	44.64	-16	59.34	- 6	12.70	- 3	26.63	- 4
19	30.74	+ I	9.80	- 6	43.42	- 4	59.15	- 6	12.53	- 2	26.60	- 5
20	30.46	+ 3	9.53	- 5	42.21	+ 8	58.95	- 5	12.36	- I	26.56	- 6
21	30.20	+ 5	9.25	- 2	41.02	+17	58.75	- 4	12.19	0	26.51	- 5
22	29.93	+ 6	8.98	0	39.84	+23	58.54	- I	12.02	+ I	26.46	- 4
23	29.67	+ 6	8.69	+ 3	38.68	+26	58.33	+ I	11.85	+ 2	26.40	- 2
24	29.42	+ 5	8.41	+ 5	37.53	+24	58.12	+ 4	11.68	+ 3	26.34	0
25	29.17	+ 3	8.12	+ 7	36.40	+19	57.90	+ 5	11.51	+ 3	26.27	+ 3
26	28.93	+ I	7.83	+ 7	35.29	+11	57.68	+ 7	11.35	+ 3	26.20	+ 5
27	28.70	- I	7.53	+ 6	34.19	+ I	57.45	+ 6	11.19	+ 2	26.12	+ 6
28	28.47	- 3	7.24	+ 4	33.12	- 8	57.22	+ 5	11.02	+ I	26.03	+ 5
29	28.25	- 4	6.93	+ I	32.06	-14	56.98	+ 2	10.86	- I	25.94	+ 3
sec δ, tg δ	86° 37' 10"	16.958	+16.929		89° 1' 60"	59.274	+59.266		82° 15' 20"	7.421	+7.353	
	20	16.972	+16.943		70	59.445	+59.437		30	7.424	+7.356	

Tag	43 Hev. Cephei 4 <sup>m</sup> .3				α Ursae minoris 2 <sup>m</sup> .0				Gr. 75° 6 <sup>m</sup> .8			
	AR.	♄ Gl.	Dekl.	♄ Gl.	AR.	♄ Gl.	Dekl.	♄ Gl.	AR.	♄ Gl.	Dekl.	♄ Gl.
1923	0 <sup>h</sup> 58 <sup>m</sup>	in 0.01	+85° 51'	in 0.01	1 <sup>h</sup> 34 <sup>m</sup>	in 0.01	+88° 53'	in 0.01	4 <sup>h</sup> 12 <sup>m</sup>	in 0.01	+85° 21'	in 0.01
Nov. 29	20.31	+1	10.50	+4	52.99	+5	58.81	+4	21.88	+3	6.14	+2
30	20.11	-2	10.76	+4	52.35	-7	59.11	+5	21.93	+1	6.48	+5
Dez. 1	19.90	-6	11.01	+3	51.69	-20	59.41	+4	21.97	-2	6.82	+6
2	19.69	-8	11.26	0	51.01	-29	59.70	+1	22.01	-5	7.17	+6
3	19.47	-9	11.51	-3	50.32	-32	59.99	-2	22.04	-8	7.51	+4
4	19.25	-7	11.75	-6	49.61	-28	60.28	-5	22.07	-9	7.85	0
5	19.03	-4	11.99	-8	48.88	-16	60.56	-7	22.09	-7	8.19	-3
6	18.80	0	12.22	-8	48.14	-2	60.84	-8	22.11	-5	8.53	-6
7	18.57	+4	12.45	-6	47.39	+13	61.11	-6	22.12	-1	8.87	-7
8	18.34	+7	12.67	-2	46.62	+24	61.38	-3	22.13	+3	9.22	-7
9	18.10	+8	12.89	+2	45.83	+31	61.64	+1	22.13	+7	9.56	-4
10	17.86	+8	13.10	+6	45.03	+29	61.90	+5	22.13	+9	9.89	-1
11	17.62	+6	13.31	+9	44.21	+22	62.15	+8	22.12	+10	10.23	+3
12	17.37	+3	13.51	+10	43.38	+11	62.40	+10	22.11	+8	10.57	+6
13	17.12	0	13.70	+10	42.54	0	62.65	+10	22.09	+6	10.90	+8
14	16.87	-3	13.89	+8	41.68	-10	62.89	+8	22.07	+3	11.24	+8
15	16.61	-5	14.08	+5	40.81	-17	63.13	+6	22.04	0	11.57	+7
16	16.35	-6	14.26	+2	39.92	-21	63.36	+2	22.01	-3	11.90	+6
17	16.09	-6	14.43	-1	39.02	-20	63.58	-1	21.98	-5	12.23	+3
18	15.82	-4	14.60	-4	38.11	-15	63.80	-3	21.94	-5	12.56	0
19	15.56	-2	14.76	-6	37.19	-9	64.01	-5	21.89	-5	12.88	-3
20	15.29	0	14.91	-7	36.25	-1	64.22	-7	21.84	-4	13.20	-5
21	15.02	+2	15.06	-6	35.30	+8	64.42	-7	21.78	-3	13.52	-7
22	14.75	+5	15.20	-5	34.35	+16	64.62	-6	21.72	0	13.84	-8
23	14.47	+6	15.33	-3	33.38	+21	64.81	-4	21.65	+2	14.16	-7
24	14.20	+6	15.46	0	32.39	+22	65.00	-1	21.57	+4	14.48	-5
25	13.92	+5	15.60	+2	31.40	+19	65.18	+2	21.49	+5	14.79	-2
26	13.64	+3	15.73	+4	30.40	+11	65.36	+4	21.41	+4	15.10	+1
27	13.36	-1	15.85	+5	29.38	-2	65.53	+5	21.32	+3	15.40	+5
28	13.07	-4	15.96	+4	28.36	-14	65.69	+5	21.23	0	15.71	+6
29	12.79	-7	16.06	+2	27.32	-25	65.85	+3	21.13	-3	16.01	+7
30	12.50	-8	16.15	-2	26.28	-31	66.00	-1	21.03	-7	16.30	+5
31	12.21	-8	16.24	-5	25.23	-30	66.14	-4	20.92	-8	16.60	+2
32	11.92	-6	16.32	-8	24.16	-21	66.28	-7	20.81	-8	16.89	-2
sec δ, tg δ	85° 51' 10"	13.828	+13.791		88° 53' 60"	52.090	+52.081		85° 21' 10"	12.343	+12.302	
	20	13.837	+13.801		70	52.222	+52.213		20	12.350	+12.309	

Tag	51 Hev. Cephei 5 <sup>m</sup> .2				1 Hev. Draconis 4 <sup>m</sup> .3				ε Ursae minoris 4 <sup>m</sup> .2			
	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.
1923	7 <sup>h</sup> 5 <sup>m</sup>	in 0.01	+87° 9'	in 0.01	9 <sup>h</sup> 26 <sup>m</sup>	in 0.01	+81° 39'	in 0.01	16 <sup>h</sup> 53 <sup>m</sup>	in 0.01	+82° 9'	in 0.01
Nov. 29	38.98	+ 6	56.29	0	20.40	+ 2	31.31	- 2	32.37	- I	65.50	0
30	39.36	+ 6	56.51	+ 3	20.57	+ 3	31.31	+ I	32.32	- I	65.15	- 3
Dez. 1	39.73	+ 3	56.73	+ 7	20.74	+ 2	31.32	+ 5	32.28	0	64.79	- 6
2	40.10	- I	56.96	+ 8	20.92	+ I	31.34	+ 8	32.24	+ I	64.44	- 7
3	40.47	- 6	57.19	+ 8	21.09	0	31.36	+ 9	32.20	+ 2	64.08	- 6
4	40.82	-10	57.43	+ 6	21.26	- 2	31.39	+ 9	32.16	+ 3	63.72	- 4
5	41.17	-12	57.67	+ 2	21.43	- 4	31.43	+ 6	32.13 32.10	+ 3 + 2	63.36 63.00	0 + 4
6	41.52	-11	57.91	- 2	21.60	- 4	31.47	+ 3	32.08	+ I	62.64	+ 6
7	41.85	- 7	58.16	- 5	21.77	- 4	31.52	- 2	32.06	0	62.27	+ 7
8	42.19	- I	58.41	- 8	21.94	- 2	31.57	- 6	32.04	- 2	61.91	+ 7
9	42.51	+ 5	58.67	- 8	22.10	0	31.63	- 9	32.02	- 3	61.54	+ 4
10	42.83	+10	58.93	- 7	22.27	+ 2	31.69	-10	32.01	- 3	61.18	+ I
11	43.14	+14	59.19	- 4	22.43	+ 4	31.76	- 9	32.00	- 3	60.81	- 3
12	43.45	+15	59.45	- I	22.60	+ 5	31.84	- 6	31.99	- 3	60.45	- 6
13	43.74	+14	59.72	+ 2	22.76	+ 5	31.92	- 3	31.99	- 2	60.08	- 7
14	44.03	+10	59.99	+ 5	22.92	+ 5	32.01	0	31.99	0	59.72	- 8
15	44.32	+ 6	60.27	+ 6	23.08	+ 3	32.10	+ 3	31.99	+ I	59.36	- 7
16	44.59	+ I	60.55	+ 6	23.24	+ 2	32.20	+ 5	32.00	+ I	59.00	- 5
17	44.86	- 3	60.83	+ 5	23.40	0	32.31	+ 5	32.00	+ 2	58.63	- 2
18	45.12	- 7	61.11	+ 3	23.55	- 2	32.42	+ 5	32.02	+ 2	58.27	+ I
19	45.37	- 9	61.40	+ I	23.71	- 3	32.53	+ 4	32.03	+ 2	57.91	+ 3
20	45.62	-10	61.69	- I	23.86	- 4	32.65	+ 2	32.05	+ I	57.55	+ 5
21	45.86	- 9	61.98	- 4	24.02	- 4	32.78	0	32.07	0	57.19	+ 7
22	46.09	- 7	62.28	- 6	24.17	- 4	32.91	- 2	32.10	0	56.83	+ 7
23	46.31	- 3	62.58	- 7	24.32	- 3	33.04	- 4	32.13	- I	56.47	+ 6
24	46.52	+ I	62.88	- 6	24.47	- I	33.18	- 5	32.16	- 2	56.11	+ 4
25	46.73	+ 4	63.18	- 5	24.62	0	33.33	- 5	32.20	- 2	55.76	+ I
26	46.93	+ 6	63.48	- 2	24.76	+ 2	33.48	- 4	32.24	- I	55.41	- 2
27	47.11	+ 7	63.79	+ 2	24.91	+ 3	33.64	- I	32.27	0	55.05	- 5
28	47.29	+ 5	64.10	+ 5	25.05	+ 3	33.80	+ 3	32.32	+ I	54.71	- 7
29	47.46	+ I	64.41	+ 8	25.19	+ 2	33.97	+ 6	32.36	+ 2	54.36	- 7
30	47.62	- 4	64.72	+ 8	25.33	0	34.15	+ 8	32.41	+ 3	54.01	- 5
31	47.78	- 9	65.04	+ 7	25.46	- I	34.32	+ 9	32.46	+ 3	53.67	- 2
32	47.92	-12	65.35	+ 4	25.59	- 3	34.51	+ 7	32.52	+ 3	53.33	+ 2
sec δ, tg δ	87° 9' 60"	20.230	+20.206		81° 39' 30"	6.893	+6.820		82° 9' 50"	7.335	+7.266	
	70	20.250	+20.225		40	6.895	+6.822		60	7.337	+7.269	



Tag	δ Ursae minoris 4 <sup>m</sup> .3				λ Ursae minoris 6 <sup>m</sup> .8				76 Draconis 6 <sup>m</sup> .0			
	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.
1923	17 <sup>h</sup> 56 <sup>m</sup>	in 0.01	+86° 36'	in 0.01	18 <sup>h</sup> 53 <sup>m</sup>	in 0.01	+89° 1'	in 0.01	20 <sup>h</sup> 48 <sup>m</sup>	in 0.01	+82° 15'	in 0.01
Nov. 29	28.25	- 4	66.93	+ 1	32.06	-14	56.98	+ 2	10.86	- 1	25.94	+ 3
30	28.04	- 4	66.63	- 3	31.01	-16	56.74	- 2	10.70	- 2	25.84	0
Dez. 1	27.83	- 2	66.32	- 6	29.99	-12	56.50	- 5	10.54	- 2	25.74	- 3
2	27.62	+ 1	66.01	- 8	28.98	- 3	56.25	- 8	10.38	- 2	25.63	- 7
3	27.43	+ 4	65.70	- 8	27.99	+ 9	56.00	- 9	10.22	- 1	25.51	- 9
4	27.23	+ 7	65.39	- 6	27.03	+21	55.74	- 7	10.06	0	25.39	- 9
5	27.05	+ 8	65.07	- 2	26.08	+28	55.48	- 4	9.90	+ 1	25.26	- 7
6	26.87	+ 7	64.75	+ 2	25.15	+30	55.22	0	9.75	+ 2	25.13	- 3
7	26.70	+ 5	64.43	+ 5	24.24	+24	54.95	+ 4	9.59	+ 3	24.99	+ 1
8	26.53	+ 1	64.10	+ 7	23.35	+11	54.68	+ 7	9.44	+ 3	24.84	+ 5
9	26.38	- 3	63.78	+ 8	22.49	- 4	54.40	+ 8	9.29	+ 2	24.69	+ 8
10	26.23	- 7	63.45	+ 6	21.64	-19	54.12	+ 8	9.14	+ 1	24.54	+ 9
11	26.08	- 9	63.12	+ 3	20.81	-31	53.84	+ 6	8.99	- 1	24.38	+ 9
12	25.94	-10	62.79	0	20.00	-37	53.56	+ 2	8.85	- 2	24.22	+ 7
13	25.81	- 9	62.45	- 3	19.22	-37	53.27	- 1	8.70	- 3	24.05	+ 4
14	25.69	- 7	62.12	- 6	18.46	-31	52.98	- 4	8.56	- 3	23.87	0
15	25.57	- 4	61.78	- 7	17.72	-21	52.69	- 6	8.42	- 3	23.68	- 3
16	25.46	- 1	61.44	- 7	17.00	- 9	52.39	- 6	8.28	- 2	23.49	- 5
17	25.36	+ 2	61.10	- 6	16.31	+ 3	52.09	- 6	8.14	- 1	23.30	- 6
18	25.26	+ 4	60.76	- 3	15.64	+13	51.78	- 4	8.01	0	23.10	- 5
19	25.17	+ 6	60.42	- 1	14.99	+20	51.48	- 2	7.88	+ 1	22.90	- 4
20	25.09	+ 6	60.08	+ 2	14.37	+24	51.17	0	7.75	+ 2	22.69	- 3
21	25.02 24.95	+ 5 + 4	59.73 59.39	+ 4 + 6	13.77	+24	50.86	+ 3	7.62	+ 3	22.48	0
22	24.89	+ 2	59.04	+ 7	13.19	+20	50.55	+ 5	7.49	+ 3	22.26	+ 2
23	24.84	- 1	58.70	+ 7	12.64	+13	50.23	+ 6	7.36	+ 3	22.04	+ 4
24	24.80	- 3	58.35	+ 5	12.11	+ 3	49.92	+ 7	7.24	+ 2	21.81	+ 5
25	24.76	- 4	58.00	+ 2	11.61	- 7	49.60	+ 6	7.12	+ 1	21.58	+ 6
26	24.73	- 4	57.65	- 1	11.13	-14	49.28	+ 3	7.00	0	21.34	+ 4
27	24.71	- 3	57.31	- 5	10.68	-18	48.96	0	6.88	- 1	21.10	+ 2
28	24.69	0	56.96	- 7	10.25	-16	48.63	- 4	6.77	- 2	20.85	- 2
29	24.68	+ 3	56.61	- 8	9.85	+ 9	48.31	- 7	6.65	- 3	20.60	- 5
30	24.68	+ 6	56.27	- 7	9.47	+ 3	47.98	- 8	6.54	- 2	20.35	- 8
31	24.69	+ 8	55.92	- 4	9.12	+16	47.65	- 8	6.44	- 1	20.09	- 9
32	24.70	+ 8	55.57	0	8.79	+26	47.32	- 6	6.33	+ 1	19.83	- 8
sec δ, tg δ	86° 36' 60"	16.945	+16.915		89° 1' 50"	59.104	+59.096		82° 15' 20"	7.421	+7.353	
	70	16.958	+16.929		60	59.274	+59.266		30	7.424	+7.356	

Tag	Octantis 4 G. 6 <sup>m</sup>				ζ Octantis 6 <sup>m</sup> —5 <sup>m</sup>				ι Octantis 6 <sup>m</sup> —5 <sup>m</sup>			
	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.
1923	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 9'	in 0.01	9 <sup>h</sup> 8 <sup>m</sup>	in 0.01	-85° 21'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	-84° 41'	in 0.01
Jan. 0	38.21	-3	56.76	-8	29.11	+6	18.95	0	49.43	+3	57.41	+7
1	37.95	-4	56.80	-7	29.24	+6	19.27	-3	49.69	+4	57.49	+4
2	37.68	-5	56.83	-4	29.37	+4	19.60	-5	49.95	+5	57.57	+1
3	37.41	-5	56.85	0	29.49	+2	19.93	-6	50.21	+5	57.66	-3
4	37.14	-3	56.86	+3	29.61	-1	20.27	-5	50.47	+3	57.76	-5
5	36.88	-1	56.87	+6	29.72	-3	20.61	-3	50.72	0	57.87	-6
6	36.61	+2	56.87	+7	29.83	-5	20.95	0	50.97	-2	57.98	-6
7	36.35	+4	56.87	+6	29.93	-5	21.29	+3	51.22	-5	58.09	-3
8	36.08	+5	56.86	+3	30.03	-4	21.63	+6	51.47	-6	58.21	0
9	35.82	+5	56.84	0	30.12	-2	21.98	+7	51.72	-5	58.33	+3
10	35.55	+4	56.82	-3	30.21	0	22.33	+6	51.97	-4	58.46	+5
11	35.28	+2	56.79	-5	30.29	+3	22.68	+4	52.22	-1	58.60	+6
12	35.01	-1	56.75	-6	30.37	+4	23.04	0	52.46	+2	58.74	+5
13	34.75	-4	56.71	-5	30.45	+5	23.40	-3	52.71	+4	58.89	+3
14	34.48	-5	56.66	-2	30.52	+4	23.76	-6	52.95	+6	59.05	-1
15	34.21	-6	56.60	+1	30.58	+2	24.12	-8	53.19	+6	59.21	-4
16	33.94	-5	56.54	+4	30.64	0	24.48	-8	53.44	+5	59.37	-7
17	33.68	-3	56.48	+7	30.69	-3	24.84	-7	53.68	+3	59.54	-8
18	33.41	-1	56.40	+8	30.74	-4	25.20	-5	53.91	+1	59.72	-8
19	33.15	+1	56.32	+8	30.78	-5	25.56	-2	54.15	-2	59.91	-7
20	32.88	+3	56.24	+7	30.82	-5	25.92	+1	54.39	-3	60.10	-5
21	32.61	+4	56.15	+5	30.85	-4	26.29	+4	54.62	-4	60.29	-2
22	32.35	+5	56.05	+2	30.88	-3	26.66	+6	54.85	-5	60.49	+1
23	32.09	+5	55.95	-1	30.91	-1	27.03	+7	55.08	-5	60.70	+4
24	31.82	+4	55.84	-4	30.93	+1	27.40	+7	55.31	-4	60.91	+6
25	31.56	+2	55.72	-7	30.94	+3	27.78	+6	55.54	-2	61.12	+8
26	31.30	0	55.60	-8	30.95	+5	28.15	+4	55.76	0	61.34	+8
27	31.04	-2	55.48	-9	30.96	+6	28.52	+2	55.98	+2	61.57	+8
28	30.78	-4	55.34	-8	30.96	+6	28.89	-1	56.20	+4	61.80	+6
29	30.53	-5	55.20	-5	30.95	+5	29.26	-4	56.42	+5	62.03	+3
30	30.27	-5	55.06	-2	30.94	+3	29.64	-5	56.64	+5	62.27	-1
31	30.01	-4	54.91	+2	30.93	0	30.01	-6	56.85	+4	62.51	-4
Febr. 1	29.76	-2	54.75	+5	30.91	-2	30.39	-4	57.06	+1	62.76	-6
2	29.51	+1	54.59	+6	30.88	-4	30.76	-2	57.27	-1	63.02	-6
3	29.26	+3	54.42	+6	30.85	-5	31.13	+2	57.48	-4	63.28	-4
4	29.01	+5	54.25	+5	30.82	-5	31.51	+5	57.68	-5	63.54	-2
5	28.77	+6	54.08	+2	30.79	-3	31.88	+7	57.88	-6	63.80	+1
6	28.52	+5	53.90	-2	30.75	-1	32.25	+7	58.08	-4	64.07	+4
sec δ, tg δ	85° 9' 50"	11.862	-11.819		85° 21' 20"	12.350	-12.309		84° 41' 50"	10.820	-10.774	
	60	11.868	-11.826		30	12.357	-12.317		60	10.826	-10.780	

# Obere Kulmination Greenwich

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Tag	Octantis 20 G. 7 <sup>m</sup>				Octantis 26 G. 6 <sup>m</sup> -7 <sup>m</sup>				χ Octantis 6 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	14 <sup>h</sup> 48 <sup>m</sup>	in 0.01	-87° 49'	in 0.01	16 <sup>h</sup> 31 <sup>m</sup>	in 0.01	-86° 13'	in 0.01	18 <sup>h</sup> 9 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
Jan. 0	41.16	+ I	56.21	+ 8	36.97	- 3	24.00	+ 8	11.81	- 9	36.28	+ 6
1	41.74	+ 6	56.10	+ 7	37.22	+ I	23.76	+ 8	12.01	- 4	35.97	+ 7
2	42.33	+ 10	55.99	+ 4	37.49	+ 4	23.53	+ 6	12.23	+ 2	35.65	+ 7
3	42.93	+ 11	55.88	0	37.76	+ 6	23.30	+ 3	12.45	+ 7	35.33	+ 4
4	43.53	+ 9	55.78	- 3	38.03	+ 7	23.08	- I	12.69	+ 10	35.02	+ I
5	44.13	+ 5	55.70	- 6	38.30	+ 5	22.86	- 5	12.93	+ 10	34.71	- 3
6	44.73	- 2	55.62	- 7	38.58	+ 2	22.64	- 7	13.19	+ 7	34.40	- 6
7	45.34	- 8	55.54	- 6	38.86	- 2	22.43	- 8	13.45	+ 2	34.09	- 8
8	45.95	- 12	55.47	- 4	39.15	- 5	22.22	- 6	13.72	- 3	33.78	- 7
9	46.57	- 13	55.41	0	39.44	- 7	22.02	- 3	14.01	- 8	33.48	- 5
10	47.19	- 11	55.35	+ 3	39.74	- 8	21.82	0	14.30	- 11	33.18	- 2
11	47.82	- 6	55.30	+ 5	40.04	- 6	21.63	+ 4	14.60	- 10	32.88	+ 2
12	48.44	+ I	55.25	+ 6	40.35	- 2	21.44	+ 6	14.92	- 7	32.59	+ 5
13	49.07	+ 8	55.21	+ 5	40.66	+ 2	21.25	+ 7	15.24	- I	32.29	+ 7
14	49.70	+ 13	55.17	+ 3	40.97	+ 6	21.07	+ 6	15.57	+ 4	32.00	+ 7
15	50.34	+ 16	55.14	0	41.29	+ 9	20.90	+ 3	15.91	+ 11	31.72	+ 6
16	50.97	+ 15	55.12	- 3	41.61	+ 10	20.73	0	16.25	+ 14	31.43	+ 4
17	51.61	+ 12	55.10	- 6	41.94	+ 9	20.56	- 3	16.61	+ 15	31.15	+ I
18	52.25	+ 8	55.09	- 7	42.27	+ 8	20.39	- 5	16.97	+ 14	30.87	- 2
19	52.89	+ 2	55.08	- 8	42.60	+ 5	20.23	- 7	17.34	+ 11	30.59	- 4
20	53.53	- 3	55.08	- 7	42.93	+ I	20.08	- 7	17.72	+ 6	30.32	- 6
21	54.17	- 8	55.09	- 5	43.27	- 2	19.93	- 6	18.11	0	30.05	- 7
22	54.82	- 11	55.10	- 2	43.61	- 5	19.79	- 4	18.51	- 5	29.78	- 6
23	55.47	- 13	55.11	+ I	43.96	- 8	19.65	- 2	18.91	- 10	29.52	- 4
24	56.11	- 13	55.14	+ 4	44.31	- 9	19.52	+ I	19.32	- 13	29.26	- 2
25	56.76	- 11	55.17	+ 6	44.66	- 9	19.39	+ 4	19.74	- 15	29.00	0
26	57.41	- 7	55.20	+ 8	45.01	- 8	19.27	+ 6	20.17	- 14	28.74	+ 3
27	58.06	- 2	55.24	+ 9	45.37	- 5	19.15	+ 8	20.60	- 12	28.49	+ 5
28	58.71	+ 4	55.29	+ 8	45.73	- 2	19.04	+ 8	21.05	- 7	28.24	+ 7
29	59.37	+ 8	55.34	+ 5	46.09	+ 2	18.93	+ 7	21.50	- I	28.00	+ 7
30	60.02	+ 11	55.40	+ 2	46.45	+ 5	18.83	+ 4	21.95	+ 5	27.76	+ 5
31	60.67	+ 10	55.47	- 2	46.82	+ 6	18.73	0	22.42	+ 9	27.52	+ 3
Febr. 1	61.32	+ 6	55.54	- 5	47.18	+ 6	18.64	- 3	22.89	+ 10	27.29	- I
2	61.97	+ I	55.61	- 7	47.55	+ 4	18.55	- 6	23.36	+ 9	27.06	- 4
3	62.61	- 5	55.69	- 7	47.92	0	18.47	- 7	23.85	+ 5	26.83	- 7
4	63.26	- 10	55.78	- 5	48.30	- 3	18.40	- 7	24.34	0	26.61	- 8
5	63.90	- 13	55.87	- 2	48.67	- 6	18.33	- 5	24.83	- 5	26.39	- 7
6	64.55	- 12	55.96	+ I	49.05	- 7	18.26	- 2	25.33	- 9	26.18	- 4

sec δ, tg δ	87° 49' 50"	26.417	-26.398	86° 13' 20"	15.178	-15.145	87° 39' 30"	24.475	-24.454
	60	26.450	-26.432	30	15.189	-15.156	40	24.504	-24.483



Tag	$\sigma$ Octantis 6 <sup>m</sup>				$\beta$ Octantis 4 <sup>m</sup> .I				$\tau$ Octantis 6 <sup>m</sup>			
	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.
1923	19 <sup>h</sup> 35 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 38 <sup>m</sup>	in 0.01	-81° 47'	in 0.01	23 <sup>h</sup> 16 <sup>m</sup>	in 0.01	-87° 54'	in 0.01
Jan. 0	5.13	-41	38.21	+1	7.98	-4	24.71	-5	38.96	-12	38.19	-6
1	5.08	-35	37.87	+4	7.87	-4	24.50	-2	38.44	-14	38.01	-3
2	5.07	-22	37.52	+6	7.76	-4	24.29	+1	37.93	-14	37.82	0
3	5.07	-5	37.18	+7	7.65	-2	24.07	+4	37.42	-11	37.63	+3
4	5.11	+12	36.83	+5	7.55	0	23.84	+6	36.92	-5	37.43	+5
5	5.17	+26	36.49	+3	7.45	+2	23.61	+6	36.42	+3	37.22	+6
6	5.27	+32	36.14	0	7.35	+3	23.38	+4	35.92	+9	37.01	+5
7	5.40	+30	35.79	-4	7.25	+4	23.14	+1	35.43	+13	36.80	+2
8	5.56	+19	35.44	-7	7.15	+4	22.89	-2	34.95	+14	36.58	-1
9	5.75	+4	35.10	-8	7.05	+2	22.64	-5	34.47	+12	36.35	-4
10	5.97	-13	34.75	-7	6.96	0	22.39	-7	34.00	+6	36.12	-6
11	6.22	-25	34.40	-4	6.87	-1	22.13	-6	33.54	-1	35.89	-6
12	6.50	-30	34.05	0	6.78	-3	21.87	-4	33.08	-8	35.65	-5
13	6.81	-27	33.71	+3	6.69	-4	21.60	-1	32.63	-12	35.40	-2
14	{ 7.14 7.51	-15 0	33.36 33.02	+6 +8	6.61	-3	21.33	+3	32.19	-13	35.15	+2
15	7.91	+17	32.67	+8	6.53	-2	21.06	+6	31.75	-11	34.90	+5
16	8.34	+31	32.33	+6	6.45	0	20.78	+8	31.32	-7	34.64	+8
17	8.79	+40	31.98	+4	6.37	+1	20.50	+9	30.90	-1	34.38	+9
18	9.28	+40	31.64	+1	6.29	+3	20.21	+8	30.49	+5	34.11	+8
19	9.79	+36	31.29	-2	6.21	+4	19.92	+6	30.08	+9	33.84	+7
20	10.33	+25	30.95	-5	6.14	+4	19.62	+3	29.68	+12	33.56	+4
21	10.90	+12	30.61	-6	6.07	+4	19.32	0	29.29	+13	33.28	+1
22	11.49	-3	30.27	-7	6.00	+3	19.02	-3	28.91	+12	32.99	-2
23	12.11	-18	29.94	-6	5.93	+1	18.71	-5	28.53	+8	32.70	-5
24	12.76	-31	29.60	-5	5.87	0	18.40	-7	28.16	+4	32.41	-7
25	13.44	-40	29.26	-2	5.81	-2	18.08	-8	27.80	-1	32.11	-8
26	14.15	-43	28.93	0	5.76	-3	17.77	-7	27.45	-7	31.81	-8
27	14.88	-40	28.60	+3	5.71	-4	17.45	-6	27.11	-11	31.50	-7
28	15.64	-30	28.26	+5	5.65	-4	17.13	-3	26.77	-14	31.19	-4
29	16.43	-14	27.93	+6	5.60	-4	16.81	0	26.44	-15	30.88	-1
30	17.24	+4	27.61	+6	5.55	-3	16.48	+3	26.12	-12	30.57	+2
31	18.08	+19	27.28	+4	5.50	-1	16.15	+5	25.81	-7	30.25	+4
Febr. 1	18.94	+30	26.96	+1	5.45	+1	15.82	+6	25.51	0	29.92	+6
2	19.83	+32	26.64	-2	5.41	+3	15.48	+5	25.22	+7	29.59	+5
3	20.74	+26	26.32	-6	5.37	+4	15.14	+3	24.94	+12	29.26	+4
4	21.68	+13	26.01	-7	5.33	+4	14.80	0	24.67	+14	28.93	+1
5	22.64	-3	25.70	-7	5.30	+3	14.46	-4	24.40	+14	28.59	-2
6	23.63	-18	25.38	-5	5.26	+2	14.11	-6	24.14	+9	28.25	-5
sec $\delta$ , tg $\delta$	89° 12' 30"	72.376	-72.369		81° 47' 10"	6.999	-6.928		87° 54' 30"	27.398	-27.380	
	40	72.631	-72.624		20	7.002	-6.930		40	27.435	-27.417	

# Obere Kulmination Greenwich

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Tag	Octantis 4 G. 6 <sup>m</sup>				ζ Octantis 6 <sup>m</sup> —5 <sup>m</sup>				ι Octantis 6 <sup>m</sup> —5 <sup>m</sup>			
	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.
1923	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 9'	in 0.01	9 <sup>h</sup> 8 <sup>m</sup>	in 0.01	-85° 21'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	-84° 42'	in 0.01
Febr. 6	28.52	+5	53.90	-2	30.75	-1	32.25	+7	58.08	-4	4.07	+4
7	28.28	+3	53.71	-4	30.70	+2	32.63	+6	58.28	-2	4.35	+5
8	28.04	0	53.52	-6	30.65	+4	33.00	+2	58.47	+1	4.63	+5
9	27.80	-3	53.32	-5	30.60	+4	33.38	-2	58.66	+4	4.91	+3
10	27.56	-5	53.11	-3	30.54	+4	33.75	-6	58.85	+6	5.20	0
11	27.33	-6	52.90	0	30.47	+3	34.12	-8	59.03	+6	5.49	-3
12	27.09	-6	52.69	+3	30.40	+1	34.50	-9	59.21	+6	5.79	-6
13	26.86	-4	52.47	+6	30.32	-2	34.87	-8	59.39	+4	6.09	-8
14	26.63	-2	52.25	+8	30.24	-4	35.23	-6	59.57	+2	6.39	-8
15	26.40	0	52.02	+8	30.16	-5	35.60	-3	59.74	0	6.69	-8
16	26.18	+2	51.79	+7	30.07	-5	35.97	0	59.91	-2	7.00	-6
17	25.95	+4	51.55	+5	29.98	-5	36.33	+3	60.08	-4	7.31	-3
18	25.73	+5	51.31	+3	29.88	-3	36.70	+5	60.25	-5	7.63	0
19	25.51	+5	51.07	0	29.78	-2	37.06	+7	60.41	-5	7.95	+3
20	25.29	+4	50.82	-3	29.68	0	37.42	+7	60.57	-4	8.27	+6
21	25.08	+3	50.57	-6	29.57	+2	37.78	+7	60.73	-3	8.60	+8
22	24.87	+1	50.31	-8	29.45	+4	38.14	+5	60.88	-1	8.93	+9
23	24.66	-1	50.05	-9	29.33	+6	38.49	+3	61.03	+1	9.26	+8
24	24.46	-3	49.78	-8	29.21	+6	38.84	0	61.17	+3	9.59	+7
25	24.25	-4	49.51	-7	29.09	+6	39.19	-3	61.31	+4	9.93	+4
26	24.05	-5	49.24	-4	28.96	+4	39.54	-4	61.45	+5	10.27	+1
27	23.86	-4	48.96	0	28.82	+2	39.89	-5	61.59	+4	10.61	-2
28	23.66	-3	48.68	+3	28.68	-1	40.24	-4	61.72	+2	10.95	-5
März 1	23.47	0	48.39	+5	28.54	-3	40.58	-2	61.85	0	11.30	-6
2	23.28	+3	48.10	+6	28.39	-5	40.92	+1	61.98	-3	11.65	-5
3	23.10	+5	47.81	+5	28.24	-5	41.26	+4	62.10	-5	12.00	-3
4	22.92	+6	47.51	+3	28.08	-4	41.59	+6	62.22	-6	12.35	0
5	22.74	+5	47.21	0	27.92	-2	41.92	+8	62.34	-5	12.71	+3
6	22.56	+4	46.90	-3	27.76	+1	42.25	+6	62.45	-3	13.06	+5
7	22.39	+1	46.59	-5	27.60	+3	42.58	+3	62.56	0	13.42	+5
8	22.22	-2	46.28	-5	27.43	+4	42.90	-1	62.66	+3	13.78	+4
9	22.05	-4	45.97	-4	27.26	+4	43.22	-5	62.76	+5	14.14	+1
10	21.88	-6	45.65	-1	27.08	+3	43.54	-7	62.86	+6	14.50	-2
11	21.72	-6	45.33	+2	26.90	+1	43.86	-9	62.96	+6	14.87	-5
12	21.56	-5	45.01	+5	26.72	-1	44.17	-9	63.05	+5	15.24	-8
13	21.41	-3	44.69	+8	26.53	-3	44.48	-7	63.14	+3	15.60	-9
14	21.26	-1	44.36	+9	26.34	-5	44.78	-5	63.23	+1	15.97	-9
15	21.11	+2	44.03	+8	26.15	-5	45.09	-2	63.31	-2	16.34	-7
sec δ, tg δ	85° 9' 40"	11.855	-11.813		85° 21' 30"	12.357	-12.317		84° 42' 0"	10.826	-10.780	
	50	11.862	-11.819		40	12.365	-12.324		10	10.832	-10.785	

Tag	Octantis 20 G. 7 <sup>m</sup>				Octantis 26 G. 6 <sup>m</sup> —7 <sup>m</sup>				χ Octantis 6 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	14 <sup>h</sup> 49 <sup>m</sup>	in 0.01	—87° 49'	in 0.01	16 <sup>h</sup> 31 <sup>m</sup>	in 0.01	—86° 13'	in 0.01	18 <sup>h</sup> 9 <sup>m</sup>	in 0.01	—87° 39'	in 0.01
Febr. 6	4.55	—12	55.96	+1	49.05	—7	18.26	—2	25.33	—9	26.18	—4
7	5.19	—8	56.06	+4	49.43	—6	18.20	+2	25.84	—10	25.97	0
8	5.83	—1	56.17	+6	49.81	—3	18.14	+5	26.35	—8	25.77	+4
9	6.47	+6	56.28	+5	50.19	+1	18.09	+7	26.87	—3	25.57	+6
10	7.11	+12	56.40	+4	50.57	+5	18.05	+6	27.39	+3	25.37	+8
11	7.74	+16	56.52	+1	50.96	+8	18.01	+4	27.92	+9	25.18	+7
12	8.37	+17	56.65	—2	51.34	+10	17.97	+2	28.46	+13	25.00	+5
13	9.00	+14	56.78	—5	51.73	+10	17.94	—2	28.99	+16	24.82	+2
14	9.63	+10	56.92	—7	52.12	+9	17.92	—4	29.53	+15	24.64	—1
15	10.25	+4	57.06	—8	52.50	+6	17.90	—6	30.08	+12	24.46	—4
16	10.87	—1	57.21	—7	52.89	+3	17.88	—7	30.64	+8	24.29	—6
17	11.49	—6	57.37	—5	53.29	—1	17.87	—6	31.20	+3	24.13	—6
18	12.11	—10	57.53	—3	53.68	—4	17.87	—5	31.77	—3	23.97	—6
19	12.72	—13	57.69	0	54.07	—7	17.87	—3	32.34	—8	23.81	—5
20	13.33	—13	57.86	+3	54.46	—8	17.88	0	32.91	—12	23.66	—3
21	13.94	—12	58.04	+6	54.85	—9	17.89	+3	33.49	—15	23.51	—1
22	14.54	—8	58.22	+8	55.24	—8	17.90	+5	34.07	—15	23.37	+2
23	15.14	—4	58.40	+9	55.63	—6	17.92	+7	34.65	—14	23.23	+5
24	15.73	+1	58.59	+8	56.02	—3	17.95	+8	35.24	—10	23.10	+6
25	16.32	+6	58.78	+7	56.41	0	17.98	+8	35.83	—4	22.97	+7
26	16.91	+9	58.97	+4	56.80	+3	18.02	+6	36.42	+1	22.85	+6
27	17.49	+10	59.17	0	57.20	+5	18.06	+2	37.02	+6	22.73	+4
28	18.07	+8	59.38	—3	57.59	+6	18.11	—2	37.62	+9	22.61	0
März 1	18.64	+3	59.59	—6	57.98	+4	18.16	—5	38.22	+9	22.50	—3
2	19.21	—3	59.80	—7	58.37	+1	18.22	—7	38.83	+6	22.39	—6
3	19.77	—9	60.02	—6	58.76	—2	18.28	—8	39.44	+2	22.29	—8
4	20.33	—12	60.24	—3	59.15	—5	18.34	—6	40.05	—4	22.19	—7
5	20.88	—13	60.47	0	59.54	—7	18.41	—3	40.66	—8	22.10	—5
6	21.43	—10	60.70	+3	59.92	—7	18.49	+1	41.28	—10	22.02	—2
7	21.97	—4	60.94	+5	60.31	—4	18.57	+4	41.89	—8	21.94	+2
8	22.51	+3	61.18	+6	60.69	—1	18.66	+6	42.51	—5	21.86	+6
9	23.04	+10	61.42	+4	61.08	+4	18.75	+6	43.13	+1	21.79	+7
10	23.57	+15	61.67	+2	61.46	+7	18.85	+5	43.75	+7	21.72	+7
11	24.09	+17	61.92	—1	61.84	+10	18.95	+3	44.38	+13	21.66	+6
12	24.60	+16	62.17	—4	62.22	+11	19.06	0	45.01	+16	21.60	+3
13	25.11	+12	62.43	—7	62.60	+10	19.17	—3	45.65	+16	21.55	0
14	25.61	+7	62.69	—8	62.98	+8	19.28	—6	46.28	+14	21.50	—3
15	26.11	+1	62.96	—8	63.35	+4	19.40	—7	46.91	+10	21.45	—5
sec δ, tg δ	87° 49' 50"	26.417	—26.398		86° 13' 10"	15.166	—15.133		87° 39' 20"	24.446	—24.425	
	60	26.450	—26.432		20	15.178	—15.145		30	24.475	—24.454	



Tag	α Octantis 6 <sup>m</sup>				β Octantis 4 <sup>m</sup> .I				γ Octantis 6 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	19 <sup>h</sup> 35 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 38 <sup>m</sup>	in 0.01	-81° 47'	in 0.01	23 <sup>h</sup> 16 <sup>m</sup>	in 0.01	-87° 54'	in 0.01
Febr. 6	23.63	-18	25.38	-5	5.26	+2	14.11	-6	24.14	+9	28.25	-5
7	24.64	-27	25.07	-2	5.23	0	13.77	-6	23.89	+2	27.91	-6
8	25.67	-27	24.77	+2	5.21	-2	13.42	-5	23.65	-5	27.57	-5
9	26.73	-19	24.46	+6	5.18	-3	13.07	-2	23.41	-10	27.22	-3
10	27.81	-5	24.16	+8	5.16	-3	12.72	+2	23.19	-13	26.87	0
11	28.91	+11	23.86	+8	5.14	-2	12.36	+5	22.98	-12	26.52	+4
12	30.04	+26	23.57	+7	5.12	-1	12.01	+8	22.77	-9	26.16	+7
13	31.18	+37	23.27	+5	5.10	+1	11.65	+9	22.58	-4	25.80	+9
14	32.35	+39	22.98	+2	5.08	+2	11.29	+8	22.39	+2	25.44	+9
15	33.54	+39	22.69	-1	5.07	+3	10.93	+7	22.21	+7	25.08	+8
16	34.75	+30	22.41	-4	5.06	+4	10.57	+4	22.04	+12	24.72	+5
17	35.97	+17	22.13	-5	5.05	+4	10.21	+1	21.88	+13	24.36	+2
18	37.22	+3	21.85	-6	5.05	+3	9.85	-2	21.73	+12	23.99	-1
19	38.49	-12	21.58	-6	5.05	+2	9.48	-5	21.59	+10	23.62	-4
20	39.78	-26	21.31	-5	5.05	0	9.12	-7	21.46	+6	23.25	-6
21	41.09	-37	21.04	-4	5.05	-1	8.75	-8	21.34	+1	22.88	-8
22	42.41	-44	20.78	-1	5.05	-3	8.38	-8	21.23	-5	22.51	-8
23	43.76	-44	20.52	+1	5.06	-4	8.02	-7	21.12	-10	22.14	-8
24	45.12	-37	20.26	+4	5.07	-5	7.65	-5	21.03	-13	21.76	-6
25	46.50	-24	20.01	+6	5.08	-5	7.28	-2	20.95	-15	21.39	-3
26	47.90	-7	19.76	+6	5.10	-4	6.91	+1	20.87	-14	21.01	0
27	49.31	+10	19.51	+5	5.11	-2	6.54	+4	20.80	-10	20.63	+3
28	50.74	+24	19.27	+2	5.13	0	6.17	+5	20.75	-4	20.25	+5
März 1	52.19	+30	19.03	-1	5.15	+2	5.80	+5	20.70	+4	19.87	+5
2	53.66	+28	18.79	-4	5.18 5.20	+3 +4	5.43 5.06	+3 0.1	20.66	+10	19.48	+4
3	55.14	+17	18.56	-7	5.23	+3	4.69	-3	20.63	+14	19.10	+1
4	56.63	+3	18.33	-8	5.26	+2	4.32	-5	20.61	+14	18.72	-1
5	58.14	-12	18.11	-6	5.30	0	3.95	-6	20.60	+11	18.33	-4
6	59.66	-23	17.89	-3	5.33	-1	3.58	-5	20.60	+5	17.95	-6
7	61.20	-26	17.68	+1	5.37	-3	3.21	-3	20.61	-2	17.57	-5
8	62.75	-21	17.47	+4	5.41	-3	2.84	0	20.62	-8	17.19	-4
9	64.32	-9	17.26	+7	5.45	-3	2.46	+4	20.65	-12	16.80	-1
10	65.89	+7	17.06	+8	5.50	-2	2.09	+7	20.68	-13	16.42	+3
11	67.48	+23	16.86	+8	5.55	0	1.72	+9	20.73 20.78	-10 -6	16.03 15.65	+6 +9
12	69.08	+36	16.67	+6	5.60	+2	1.35	+9	20.84	+1	15.27	+9
13	70.69	+42	16.48	+3	5.65	+3	0.99	+8	20.91	+6	14.88	+9
14	72.32	+42	16.29	0	5.71	+4	0.62	+6	20.99	+10	14.50	+7
15	73.96	+36	16.11	-3	5.76	+4	0.25	+3	21.08	+13	14.12	+4
sec δ, tg δ	89° 12' 10"	71.872	-71.865		81° 47' 0"	6.997	-6.925		87° 54' 20"	27.362	-27.344	
	20	72.123	-72.116		10	6.999	-6.928		30	27.398	-27.380	

Tag	Octantis 4 G. 6 <sup>m</sup>				ζ Octantis 6 <sup>m</sup> - 5 <sup>m</sup>				ι Octantis 6 <sup>m</sup> - 5 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 9'	in 0.01	9 <sup>h</sup> 8 <sup>m</sup>	in 0.01	-85° 21'	in 0.01	12 <sup>h</sup> 47 <sup>m</sup>	in 0.01	-84° 42'	in 0.01
März 15	21.11	+2	44.03	+8	26.15	-5	45.09	-2	3.31	-2	16.34	-7
16	20.97	+3	43.70	+7	25.95	-5	45.38	+2	3.39	-3	16.71	-5
17	20.83	+4	43.36	+4	25.75	-4	45.68	+4	3.46	-5	17.08	-2
18	20.69	+5	43.03	+1	25.55	-3	45.97	+6	3.53	-5	17.46	+1
19	20.56	+5	42.69	-2	25.34	-1	46.26	+7	3.60	-5	17.83	+4
20	20.43	+4	42.35	-5	25.13	+1	46.54	+7	3.66	-4	18.20	+7
21	20.30	+2	42.00	-7	24.92	+3	46.82	+6	3.72	-2	18.58	+8
22	20.18	0	41.65	-8	24.71	+5	47.10	+4	3.78	0	18.96	+8
23	20.06	-2	41.30	-9	24.49	+6	47.37	+1	3.83	+2	19.34	+8
24	19.95	-4	40.95	-8	24.27	+6	47.64	-2	3.88	+4	19.71	+6
25	19.84	-5	40.60	-6	24.05	+5	47.91	-4	3.93	+5	20.09	+3
26	19.73	-5	40.24	-2	23.82	+3	48.17	-5	3.97	+4	20.47	-1
27	19.62	-3	39.88	+1	23.60	0	48.43	-5	4.01	+3	20.85	-3
28	19.52	-1	39.52	+4	23.37	-2	48.68	-3	4.05	0	21.22	-5
29	19.42	+2	39.16	+5	23.13	-4	48.93	0	4.08	-2	21.60	-4
30	19.33	+4	38.79	+5	22.90	-5	49.17	+3	4.11	-4	21.97	-3
31	19.24	+5	38.42	+3	22.66	-4	49.41	+6	4.14	-6	22.35	0
April 1	19.16	+6	38.05	+1	22.42	-3	49.65	+7	4.16	-6	22.73	+2
2	19.08	+4	37.69	-2	22.18	0	49.88	+6	4.18	-4	23.11	+5
3	19.00	+2	37.32	-5	21.93	+2	50.11	+4	4.19	-2	23.48	+6
4	18.93	-1	36.95	-6	21.68	+4	50.33	+1	4.20	+2	23.86	+5
5	18.86	-3	36.58	-5	21.43	+4	50.55	-3	4.21	+4	24.23	+2
6	18.79	-5	36.21	-2	21.18	+4	50.76	-7	4.22	+6	24.61	-1
7	18.73	-6	35.84	+1	20.93	+2	50.97	-9	4.22	+7	24.98	-5
8	18.67	-5	35.47	+4	20.68	0	51.18	-9	4.22	+6	25.35	-7
9	18.61	-4	35.09	+7	20.42	-2	51.38	-8	4.21	+4	25.72	-9
10	18.56	-2	34.72	+9	20.16	-4	51.58	-6	4.20	+2	26.09	-9
11	18.51	0	34.35	+9	19.90	-5	51.77	-3	4.19	-1	26.46	-8
12	18.47	+2	33.97	+8	19.64	-5	51.96	0	4.17	-3	26.82	-6
13	18.43	+4	33.60	+6	19.37	-5	52.15	+4	4.15	-4	27.19	-3
14	18.40	+4	33.23	+3	19.11	-3	52.33	+5	4.13	-5	27.56	0
15	18.37	+4	32.85	0	18.84	-2	52.50	+6	4.10	-5	27.92	+3
16	18.34	+3	32.48	-3	18.58	0	52.67	+6	4.07	-4	28.28	+5
17	18.32 18.30	+2 0	32.11 31.73	-6, -8f	18.31	+2	52.83	+6	4.03	-2	28.64	+7
18	18.29	-1	31.36	-8	18.04	+4	52.99	+4	3.99	-1	29.00	+8
19	18.28	-3	30.98	-8	17.77	+6	53.14	+2	3.95	+2	29.36	+8
20	18.27	-4	30.61	-6	17.50	+6	53.29	-1	3.91	+3	29.72	+6
21	18.27	-4	30.23	-4	17.23	+6	53.43	-3	3.86	+4	30.07	+4
sec δ, tg δ	85° 9' 30" 40	11.848 11.855	-11.806 -11.813		85° 21' 40" 50	12.365 12.372	-12.324 -12.332		84° 42' 20" 30	10.837 10.843	-10.791 -10.797	

Tag	Octantis 20 G. 7 <sup>m</sup>				Octantis 26 G. 6 <sup>m</sup> - 7 <sup>m</sup>				γ Octantis 6 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	14 <sup>h</sup> 49 <sup>m</sup>	in 0.01	-87° 50'	in 0.01	16 <sup>h</sup> 32 <sup>m</sup>	in 0.01	-86° 13'	in 0.01	18 <sup>h</sup> 9 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
März 15	26.11	+ 1	2.96	- 8	3.35	+ 4	19.40	- 7	46.91	+ 10	21.45	- 5
16	26.60	- 4	3.23	- 6	3.73	+ 1	19.52	- 7	47.54	+ 5	21.42	- 6
17	27.09	- 9	3.50	- 4	4.10	- 3	19.65	- 6	48.17	0	21.38	- 7
18	27.57	- 12	3.77	- 2	4.47	- 6	19.78	- 4	48.79	- 6	21.35	- 6
19	28.04	- 13	4.05	+ 1	4.84	- 8	19.92	- 2	49.42	- 10	21.33	- 4
20	28.51	- 12	4.33	+ 4	5.21	- 9	20.06	+ 1	50.05	- 13	21.31	- 2
21	28.97	- 10	4.62	+ 7	5.57	- 9	20.20	+ 4	50.67	- 15	21.30	+ 1
22	29.42	- 6	4.91	+ 8	5.93	- 7	20.35	+ 6	51.30	- 14	21.29	+ 4
23	29.86	- 1	5.20	+ 9	6.29	- 5	20.50	+ 8	51.93	- 12	21.28	+ 6
24	30.30	+ 4	5.49	+ 8	6.65	- 1	20.66	+ 8	52.56	- 7	21.28	+ 7
25	30.73	+ 8	5.79	+ 6	7.01	+ 2	20.82	+ 7	53.19	- 1	21.29	+ 7
26	31.16	+ 9	6.09	+ 2	7.36	+ 4	20.99	+ 4	53.81	+ 4	21.30	+ 5
27	31.58	+ 8	6.39	- 1	7.71	+ 5	21.16	0	54.44	+ 7	21.31	+ 2
28	31.99	+ 4	6.70	- 4	8.06	+ 4	21.34	- 3	55.07	+ 8	21.33	- 2
29	32.39	- 2	7.01	- 6	8.41	+ 2	21.52	- 6	55.70	+ 6	21.36	- 5
30	32.79	- 7	7.32	- 6	8.75	- 1	21.70	- 7	56.32	+ 2	21.39	- 7
31	33.18	- 12	7.63	- 4	9.09	- 5	21.89	- 7	56.95	- 3	21.42	- 8
April 1	33.56	- 14	7.95	- 1	9.43	- 7	22.08	- 4	57.57	- 7	21.46	- 6
2	33.93	- 12	8.26	+ 2	9.76	- 7	22.28	- 1	58.19	- 10	21.51	- 3
3	34.30	- 7	8.58	+ 4	10.09	- 6	22.48	+ 3	58.81	- 10	21.56	+ 1
4	34.66	0	8.90	+ 6	10.42	- 2	22.68	+ 5	59.43	- 7	21.61	+ 4
5	35.01	+ 8	9.23	+ 5	10.74	+ 2	22.88	+ 6	60.04	- 1	21.67	+ 7
6	35.35	+ 14	9.55	+ 3	11.07	+ 6	23.09	+ 6	60.66	+ 6	21.73	+ 8
7	35.69	+ 18	9.88	0	11.39	+ 10	23.30	+ 4	61.27	+ 12	21.80	+ 7
8	36.02	+ 18	10.21	- 3	11.70	+ 11	23.52	+ 1	61.88	+ 16	21.87	+ 5
9	36.34	+ 15	10.54	- 6	12.02	+ 11	23.74	- 2	62.49	+ 18	21.94	+ 2
10	36.65	+ 10	10.87	- 8	12.33	+ 9	23.96	- 5	63.10	+ 16	22.02	- 2
11	36.95	+ 4	11.21	- 8	12.64	+ 6	24.19	- 7	63.70	+ 13	22.11	- 4
12	37.25	- 2	11.54	- 7	12.94	+ 3	24.42	- 7	64.30	+ 8	22.20	- 6
13	37.54	- 6	11.88	- 6	13.24	- 1	24.65	- 7	64.90	+ 3	22.29	- 7
14	37.81	- 10	12.22	- 3	13.54	- 4	24.88	- 5	65.49	- 3	22.39	- 6
15	38.08	- 12	12.56	0	13.83	- 7	25.12	- 3	66.08	- 8	22.49	- 5
16	38.35	- 12	12.90	+ 3	14.12	- 8	25.36	0	66.67	- 12	22.60	- 3
17	38.60	- 10	13.25	+ 6	14.40	- 8	25.61	+ 3	67.25	- 14	22.71	0
18	38.84	- 7	13.59	+ 7	14.68	- 7	25.86	+ 6	67.83	- 14	22.83	+ 3
19	39.08	- 2	13.93	+ 8	14.96	- 5	26.11	+ 7	68.41	- 12	22.95	+ 5
20	39.31	+ 2	14.28	+ 8	15.24	- 2	26.37	+ 8	68.98	- 9	23.07	+ 7
21	39.53	+ 7	14.63	+ 6	15.51	+ 1	26.63	+ 7	69.55	- 3	23.20	+ 7
sec δ, tg δ	87° 50' 0''	26.450	- 26.432		86° 13' 20''	15.178	- 15.145		87° 39' 20''	24.446	- 24.425	
	10	26.484	- 26.466		30	15.189	- 15.156		30	24.475	- 24.454	



Tag	$\sigma$ Octantis 6 <sup>m</sup>				$\beta$ Octantis 4 <sup>m</sup> .I				$\tau$ Octantis 6 <sup>m</sup>			
	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.
1923	19 <sup>h</sup> 36 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 38 <sup>m</sup>	in 0.01	-81° 46'	in 0.01	23 <sup>h</sup> 16 <sup>m</sup>	in 0.01	-87° 54'	in 0.01
März 15	13.96	+36	16.11	-3	5.76	+4	60.25	+3	21.08	+13	14.12	+4
16	15.60	+24	15.93	-5	5.82	+4	59.89	0	21.18	+13	13.74	+1
17	17.26	+10	15.76	-6	5.88	+3	59.53	-3	21.29	+11	13.36	-2
18	18.92	-5	15.59	-7	5.94	+1	59.17	-6	21.41	+8	12.98	-5
19	20.60	-20	15.43	-6	6.01	0	58.81	-7	21.53	+3	12.60	-7
20	22.28	-32	15.27	-4	6.07	-2	58.45	-8	21.67	-2	12.23	-8
21	23.98	-41	15.11	-2	6.14	-3	58.09	-7	21.81	-7	11.85	-8
22	25.68	-44	14.96	0	6.21	-4	57.74	-6	21.96	-12	11.48	-7
23	27.40	-40	14.82	+3	6.29	-5	57.39	-3	22.12	-14	11.10	-5
24	29.12	-30	14.68	+5	6.37	-4	57.04	0	22.29	-15	10.73	-2
25	30.84	-16	14.54	+6	6.45	-3	56.69	+2	22.47	-12	10.36	+1
26	32.58	+1	14.41	+5	6.53	-1	56.34	+4	22.66	-6	9.99	+3
27	34.32	+15	14.28	+3	6.61	+1	56.00	+4	22.85	0	9.62	+4
28	36.06	+25	14.16	0	6.69	+3	55.66	+3	23.05	+7	9.26	+4
29	37.81	+26	14.04	-4	6.77	+3	55.32	+1	23.26	+12	8.89	+2
30	39.56	+19	13.93	-7	6.86	+3	54.98	-2	23.48	+14	8.52	-1
31	41.32	+6	13.82	-8	6.94	+3	54.64	-5	23.71	+13	8.16	-4
April 1	43.09	-9	13.72	-7	7.03	+1	54.31	-6	23.95	+8	7.80	-6
2	44.86	-21	13.62	-5	7.12	-1	53.98	-6	24.19	+1	7.44	-6
3	46.64	-27	13.53	-1	7.22	-2	53.65	-4	24.44	-6	7.09	-5
4	48.41	-25	13.44	+3	7.31	-3	53.32	-1	24.70	-11	6.73	-2
5	50.19	-14	13.35	+6	7.41	-3	53.00	+3	24.97	-13	6.38	+2
6	51.97	+1	13.27	+8	7.51	-2	52.68	+7	25.25	-12	6.03	+5
7	53.75	+19	13.20	+9	7.61	0	52.36	+9	25.53	-8	5.68	+8
8	55.54	+33	13.13	+7	7.72	+1	52.04	+10	25.83	-2	5.34	+10
9	57.33	+43	13.06	+5	7.82	+3	51.73	+9	26.13	+4	4.99	+10
10	59.13	+45	13.00	+2	7.93	+4	51.42	+7	26.44	+9	4.65	+8
11	60.92	+41	12.95	-1	8.04	+4	51.11	+4	26.75	+13	4.31	+5
12	62.71	+31	12.90	-4	8.15	+4	50.81	+1	27.08	+13	3.98	+2
13	64.50	+18	12.85	-6	8.26	+3	50.51	-2	27.41	+12	3.65	-1
14	66.29	+2	12.81	-6	8.38	+2	50.21	-4	27.74	+9	3.32	-4
15	68.08	-13	12.77	-6	8.49	0	49.92	-6	28.09	+5	3.00	-6
16	69.87	-26	12.74	-5	8.61	-1	49.63	-7	28.44	0	2.67	-7
17	71.66	-36	12.72	-3	8.73	-3	49.34	-7	28.80	-5	2.35	-7
18	73.44	-41	12.70	0	8.85	-4	49.06	-6	29.16	-10	2.04	-7
19	75.23	-41	12.68	+2	8.97	-4	48.78	-4	29.54	-14	1.72	-5
20	77.01	-33	12.67	+5	9.10	-4	48.50	-1	29.92	-15	1.41	-2
21	78.79	-21	12.67	+6	9.23	-3	48.23	+1	30.31	-14	1.10	0
sec $\delta$ , tg $\delta$	89° 12' 10"	71.872	-71.865		81° 46' 50"	6.995	-6.923		87° 54' 0"	27.290	-27.271	
	20	72.123	-72.116		60	6.997	-6.925		10	27.326	-27.308	

Tag	Octantis 4 G. 6 <sup>m</sup>				ζ Octantis 6 <sup>m</sup> - 5 <sup>n</sup>				ι Octantis 6 <sup>m</sup> - 5 <sup>n</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 9'	in 0.01	9 <sup>h</sup> 8 <sup>m</sup>	in 0.01	-85° 21'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	-84° 42'	in 0.01
April 21	18.27	-4	30.23	-4	17.23	+6	53.43	-3	63.86	+4	30.07	+4
22	18.27	-4	29.86	0	16.96	+4	53.57	-4	63.81	+4	30.42	+1
23	18.28	-2	29.49	+3	16.68	+1	53.71	-5	63.76	+4	30.77	-2
24	18.29	0	29.12	+5	16.41	-1	53.84	-3	63.70	+2	31.12	-4
25	18.30	+3	28.74	+5	16.13	-3	53.96	-1	63.64	-1	31.47	-4
26	18.32	+5	28.37	+4	15.86	-5	54.08	+2	63.58	-4	31.81	-3
27	18.34	+5	28.00	+1	15.58	-4	54.19	+5	63.51	-6	32.15	-1
28	18.37	+5	27.63	-2	15.30	-3	54.30	+7	63.44	-6	32.49	+2
29	18.40	+3	27.26	-5	15.02	-1	54.40	+8	63.36	-6	32.83	+5
30	18.43	+2	26.89	-6	14.74	+1	54.50	+6	63.28	-3	33.17	+6
Mai 1	18.47	-1	26.52	-6	14.46	+3	54.59	+3	63.20	0	33.50	+6
2	18.51	-4	26.16	-4	14.18	+4	54.68	-1	63.12	+3	33.83	+4
3	18.56	-5	25.79	-1	13.90	+4	54.76	-5	63.03	+5	34.16	+1
4	18.61	-5	25.43	+3	13.62	+3	54.84	-8	62.94	+6	34.48	-3
5	18.66	-4	25.07	+6	13.33	+1	54.91	-9	62.85	+6	34.80	-6
6	18.72	-3	24.71	+9	13.05	-2	54.98	-9	62.75	+5	35.12	-9
7	18.78	0	24.36	+9	12.77	-4	55.04	-8	62.66	+3	35.43	-10
8	18.85	+2	24.00	+9	12.49	-5	55.09	-5	62.56	0	35.74	-9
9	18.92	+3	23.65	+7	12.20	-6	55.14	-2	62.46	-2	36.05	-7
10	19.00	+4	23.30	+4	11.92	-5	55.19	+2	62.35	-3	36.36	-5
11	19.08	+4	22.95	+1	11.64	-4	55.23	+4	62.24	-4	36.66	-2
12	19.16	+4	22.60	-2	11.36	-2	55.26	+6	62.13	-5	36.96	+1
13	19.24	+3	22.26	-5	11.08	0	55.29	+6	62.01	-4	37.26	+4
14	19.33	+1	21.92	-7	10.80	+2	55.31	+6	61.89	-3	37.55	+6
15	19.42	-1	21.58	-8	10.52	+4	55.33	+5	61.77	-1	37.84	+7
16	19.52	-2	21.24	-8	10.24	+5	55.34	+3	61.64	+1	38.12	+7
17	19.62	-4	20.90	-7	9.96	+6	55.35	0	61.52	+3	38.40	+6
18	19.72	-4	20.56	-4	9.68	+6	55.35	-2	61.39	+4	38.68	+4
19	19.83	-4	20.23	-1	9.40	+4	55.35	-4	61.26	+5	38.96	+1
20	19.94	-3	19.90	+2	9.12	+2	55.34	-5	61.12	+4	39.23	-2
21	20.06	-1	19.58	+4	8.84	0	55.32	-5	60.98	+3	39.50	-4
22	20.18	+2	19.26	+5	8.57	-2	55.30	-2	60.84	0	39.76	-5
23	20.30	+4	18.94	+4	8.30	-4	55.28	+1	60.70	-3	40.02	-4
24	20.43	+5	18.62	+2	8.02	-5	55.25	+4	60.55	-5	40.27	-2
25	20.56	+5	18.31	-1	7.75	-4	55.21	+7	60.40	-6	40.52	+1
26	20.69	+4	18.00	-4	7.48	-2	55.17	+8	60.25	-6	40.77	+4
27	20.83	+2	17.69	-6	7.21	0	55.13	+7	60.10	-4	41.01	+6
28	20.97	-1	17.38	-7	6.94	+3	55.08	+5	59.94	-2	41.25	+7
sec δ, tg δ	85° 9' 20"	11.841	-11.799		85° 21' 50"	12.372	-12.332		84° 42' 30"	10.843	-10.797	
	30	11.848	-11.806		60	12.379	-12.339		40	10.849	-10.802	

Tag	Octantis 20 G. 7 <sup>m</sup>				Octantis 26 G. 6 <sup>m</sup> -7 <sup>m</sup>				χ Octantis 6 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	14 <sup>h</sup> 49 <sup>m</sup>	in 0.01	-87° 50'	in 0.01	16 <sup>h</sup> 32 <sup>m</sup>	in 0.01	-86° 13'	in 0.01	18 <sup>h</sup> 10 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
April 21	39.53	+ 7	14.63	+ 6	15.51	+ 1	26.63	+ 7	9.55	- 3	23.20	+ 7
22	39.74	+ 9	14.98	+ 3	15.77	+ 3	26.89	+ 5	10.11	+ 2	23.33	+ 6
23	39.95	+ 9	15.33	0	16.03	+ 5	27.15	+ 2	10.67	+ 6	23.47	+ 3
24	40.14	+ 6	15.68	- 3	16.29	+ 5	27.42	- 2	11.23	+ 8	23.61	0
25	40.32	0	16.03	- 5	16.54	+ 3	27.69	- 5	11.78	+ 7	23.76	- 4
26	40.50	- 6	16.38	- 6	16.79	- 1	27.96	- 7	12.33	+ 3	23.91	- 7
27	40.67	- 11	16.73	- 4	17.03	- 4	28.23	- 8	12.88	- 2	24.06	- 8
28	40.82	- 15	17.08	- 2	17.27	- 7	28.51	- 5	13.42	- 7	24.22	- 7
29	40.97	- 14	17.43	+ 1	17.51	- 8	28.79	- 2	13.95	- 11	24.38	- 5
30	41.11	- 10	17.78	+ 4	17.74	- 7	29.07	+ 2	14.48	- 12	24.55	- 1
Mai 1	41.24	- 4	18.13	+ 6	17.96	- 5	29.35	+ 4	15.01	- 9	24.72	+ 3
2	41.36	+ 4	18.48	+ 6	18.18	- 1	29.64	+ 6	15.53	- 5	24.90	+ 6
3	41.48	+ 11	18.84	+ 4	18.40	+ 4	29.93	+ 7	16.04	+ 2	25.08	+ 8
4	41.58	+ 16	19.19	+ 1	18.61	+ 8	30.22	+ 5	16.55	+ 9	25.26	+ 7
5	41.67	+ 18	19.54	- 2	18.82	+ 11	30.51	+ 2	17.06	+ 14	25.45	+ 6
6	41.76	+ 17	19.89	- 5	19.02	+ 12	30.81	- 1	17.56	+ 17	25.64	+ 3
7	41.84	+ 13	20.24	- 8	19.22	+ 11	31.10	- 4	18.05	+ 18	25.83	0
8	41.90	+ 7	20.59	- 9	19.41	+ 8	31.40	- 6	18.54	+ 15	26.03	- 3
9	41.96	+ 1	20.94	- 8	19.60	+ 4	31.70	- 7	19.02	+ 11	26.23	- 6
10	42.01	- 4	21.29	- 7	19.79	+ 1	32.00	- 7	19.49	+ 5	26.43	- 6
11	42.05	- 8	21.64	- 4	19.97	- 2	32.30	- 6	19.95	0	26.64	- 6
12	42.08	- 11	21.99	- 2	20.14	- 5	32.61	- 4	20.41	- 6	26.85	- 5
13	42.10	- 12	22.34	+ 2	20.31	- 7	32.92	- 1	20.86	- 10	27.07	- 4
14	42.11	- 11	22.68	+ 4	20.48	- 8	33.22	+ 2	21.31	- 12	27.29	- 1
15	42.11	- 8	23.03	+ 6	20.64	- 7	33.53	+ 4	21.75	- 13	27.51	+ 2
16	42.11	- 4	23.37	+ 8	20.79	- 6	33.84	+ 7	22.19	- 12	27.73	+ 4
17	42.09	+ 1	23.72	+ 8	20.94	- 3	34.15	+ 8	22.62	- 9	27.96	+ 6
18	42.07	+ 6	24.06	+ 7	21.09	0	34.46	+ 8	23.04	- 5	28.19	+ 7
19	42.03	+ 9	24.40	+ 4	21.23	+ 3	34.78	+ 6	23.45	0	28.43	+ 6
20	41.99	+ 10	24.74	+ 1	21.36	+ 5	35.09	+ 3	23.86	+ 5	28.67	+ 5
21	41.94	+ 8	25.08	- 2	21.49	+ 5	35.41	0	24.26	+ 8	28.91	+ 2
22	41.88	+ 3	25.41	- 4	21.61	+ 4	35.72	- 4	24.66	+ 8	29.16	- 2
23	41.81	- 3	25.74	- 6	21.72	+ 1	36.04	- 6	25.05	+ 5	29.40	- 6
24	41.73	- 9	26.08	- 5	21.83	- 3	36.36	- 7	25.43	0	29.65	- 8
25	41.64	- 14	26.41	- 3	21.94	- 6	36.68	- 6	25.80	- 6	29.91	- 8
26	41.55	- 16	26.74	0	22.04	- 9	36.99	- 3	26.16	- 10	30.16	- 6
27	41.44	- 13	27.07	+ 3	22.13	- 8	37.31	0	26.52	- 12	30.42	- 3
28	41.33	- 8	27.40	+ 6	22.22	- 7	37.63	+ 4	26.87	- 12	30.68	+ 1
sec δ, tg δ	87° 50' 20"	26.518	-26.500		86° 13' 30"	15.189	-15.156		87° 39' 20"	24.446	-24.425	
	30	26.553	-26.534		40	15.200	-15.167		30	24.475	-24.454	



# Obere Kulmination Greenwich

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Tag	σ Octantis 6 <sup>m</sup>				β Octantis 4 <sup>m</sup> .I				τ Octantis 6 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	19 <sup>h</sup> 37 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 38 <sup>m</sup>	in 0.01	-81° 46'	in 0.01	23 <sup>h</sup> 16 <sup>m</sup>	in 0.01	-87° 53'	in 0.01
April 21	18.79	-21	12.67	+6	9.23	-3	48.23	+1	30.31	-14	61.10	0
22	20.56	-5	12.67	+6	9.36	-2	47.96	+3	30.70	-9	60.80	+3
23	22.33	+9	12.67	+4	9.49	0	47.70	+4	31.10	-3	60.50	+4
24	24.10	+20	12.68	+1	9.62	+2	47.44	+4	31.51	+4	60.20	+4
25	25.86	+24	12.69	-2	9.75	+3	47.18	+2	31.93	+10	59.91	+2
26	27.62	+20	12.70	-6	9.88	+3	46.92	-2	32.35	+13	59.62	0
27	29.38	+8	12.72	-8	10.02	+3	46.67	-5	32.77	+13	59.34	-3
28	31.13	-6	12.75	-8	10.16	+2	46.42	-7	33.20	+10	59.06	-6
29	32.87	-21	12.78	-6	10.29	0	46.18	-7	33.64	+4	58.78	-7
30	34.61	-29	12.82	-3	10.43	-2	45.94	-6	34.08	-4	58.50	-6
Mai 1	36.34	-30	12.87	+1	10.57	-3	45.71	-3	34.53	-10	58.23	-4
2	38.06	-22	12.92	+5	10.71	-3	45.48	+1	34.99	-13	57.96	0
3	39.78	-7	12.97	+8	10.85	-3	45.25	+5	35.45	-13	57.70	+4
4	41.48	+11	13.03	+9	11.00	-1	45.03	+8	35.92	-9	57.44	+7
5	43.18	+28	13.09	+8	11.14	+1	44.81	+10	36.39	-4	57.19	+9
6	44.87	+41	13.16	+6	11.29	+2	44.60	+10	36.87	+2	56.94	+10
7	46.55	+47	13.23	+3	11.43	+4	44.39	+9	37.35	+7	56.69	+9
8	48.22	+45	13.31	0	11.58	+4	44.19	+6	37.84	+11	56.45	+7
9	49.88	+38	13.39	-3	11.73	+4	43.99	+3	38.33	+14	56.21	+4
10	51.54	+25	13.47	-5	11.88	+4	43.79	0	38.83	+13	55.98	+1
11	53.18	+10	13.56	-6	12.03	+2	43.60	-3	39.34	+11	55.75	-2
12	54.82	-5	13.66	-6	12.18	+1	43.41	-5	39.85	+7	55.53	-5
13	56.44	-19	13.76	-5	12.33	-1	43.23	-6	40.36	+2	55.31	-6
14	58.06	-31	13.86	-3	12.48	-2	43.06	-7	40.88	-3	55.10	-7
15	59.66	-38	13.97	-1	12.64	-3	42.89	-6	41.40	-8	54.89	-7
16	61.25	-39	14.09	+2	12.79	-4	42.72	-4	41.93	-12	54.69	-5
17	62.83	-34	14.21	+4	12.95	-4	42.56	-2	42.46	-14	54.49	-3
18	64.39	-24	14.33	+6	13.10	-4	42.41	+1	43.00	-14	54.29	0
19	65.94	-9	14.46	+6	13.26	-3	42.26	+3	43.54	-11	54.10	+2
20	67.48	+5	14.59	+5	13.42	-1	42.11	+4	44.08	-5	53.91	+4
21	69.00	+18	14.73	+3	13.58	+1	41.97	+4	44.63	+1	53.73	+4
22	70.51	+24	14.87	-1	13.74	+3	41.83	+3	45.18	+8	53.55	+3
23	72.00	+23	15.01	-4	13.90	+3	41.70	0	45.73	+12	53.38	+1
24	73.48	+13	15.16	-7	14.06	+3	41.58	-3	46.29	+14	53.22	-2
25	74.95	-2	15.31	-8	14.22	+2	41.46	-6	46.85	+12	53.06	-5
26	76.40	-17	15.47	-8	14.38	0	41.34	-8	47.41	+6	52.90	-7
27	77.84	-28	15.63	-5	14.54	-1	41.23	-7	47.97	-1	52.75	-7
28	79.26	-32	15.80	-1	14.70	-3	41.13	-5	48.54	-7	52.61	-6
sec δ, tg δ	89° 12' 10"	71.872	-71.865		81° 46' 40"	6.992	-6.921		87° 53' 50"	27.254	-27.235	
	20	72.123	-72.116		50	6.995	-6.923		60	27.290	-27.271	

Tag	Octantis 4 G. 6 <sup>m</sup>				ζ Octantis 6 <sup>m</sup> - 5 <sup>m</sup>				ι Octantis 6 <sup>m</sup> - 5 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 9'	in 0.01	9 <sup>h</sup> 7 <sup>m</sup>	in 0.01	-85° 21'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	-84° 42'	in 0.01
Mai 28	20.97	-1	17.38	-7	66.94	+3	55.08	+5	59.94	-2	41.25	+7
29	21.11	-3	17.08	-6	66.68	+4	55.02	+1	59.78	+2	41.48	+6
30	21.26	-5	16.78	-3	66.41	+5	54.96	-3	59.62	+4	41.71	+3
31	21.41	-6	16.49	+1	66.14	+4	54.89	-6	59.46	+6	41.94	-1
Juni 1	21.56	-5	16.20	+5	65.88	+2	54.82	-9	59.29	+6	42.16	-5
2	21.72	-3	15.91	+8	65.62	-1	54.74	-9	59.12	+6	42.38	-8
3	21.88	-1	15.63	+9	65.36	-3	54.66	-8	58.95	+4	42.59	-9
4	22.04	+1	15.35	+9	65.10	-5	54.57	-6	58.78	+1	42.79	-10
5	22.21	+3	15.07	+8	64.85	-6	54.48	-3	58.60	-1	42.99	-8
6	22.38	+4	14.80	+6	64.59	-6	54.38	0	58.43	-3	43.19	-6
7	22.55	+4	14.53	+3	64.34	-5	54.28	+3	58.25	-4	43.38	-3
8	22.73	+4	14.26	0	64.09	-3	54.17	+5	58.07	-5	43.57	0
9	22.91	+3	14.00	-3	63.84	-1	54.06	+6	57.89	-4	43.75	+3
10	23.09	+2	13.74	-6	63.60	+1	53.94	+6	57.71	-3	43.93	+6
11	23.27	0	13.49	-7	63.35	+3	53.82	+5	57.52	-2	44.10	+7
12	23.45	-2	13.24	-8	63.11	+5	53.69	+3	57.33	0	44.27	+7
13	23.64	-4	13.00	-7	62.87	+6	53.56	+1	57.14	+2	44.43	+7
14	23.83	-5	12.76	-5	62.64	+6	53.42	-2	56.95	+4	44.58	+5
15	24.03	-5	12.53	-2	62.40	+5	53.28	-4	56.76	+5	44.73	+2
16	24.23	-4	12.30	+1	62.17	+3	53.13	-5	56.57	+5	44.88	-1
17	24.43	-2	12.07	+4	61.94	+1	52.97	-5	56.37	+4	45.02	-3
18	24.64	+1	11.85	+5	61.71	-2	52.81	-4	56.17	+1	45.16	-5
19	24.85	+3	11.63	+5	61.48	-4	52.65	-1	55.97	-1	45.29	-5
20	25.06	+5	11.42	+3	61.26	-5	52.48	+2	55.77	-4	45.41	-3
21	25.27	+6	11.21	+1	61.04	-4	52.31	+6	55.57	-6	45.53	0
22	25.48	+5	11.01	-3	60.82	-3	52.13	+8	55.36	-6	45.65	+3
23	25.70	+3	10.81	-6	60.61	0	51.95	+8	55.16	-5	45.76	+6
24	25.91	+1	10.62	-7	60.40	+2	51.76	+7	54.95	-3	45.86	+7
25	26.13	-2	10.43	-7	60.19	+4	51.57	+4	54.75	0	45.96	+7
26	26.35	-5	10.25	-4	59.98	+5	51.38	-1	54.54	+3	46.05	+5
27	26.57	-6	10.07	-2	59.78	+4	51.18	-5	54.33	+5	46.14	+1
28	26.80	-6	9.90	+2	59.58	+3	50.98	-8	54.12	+6	46.22	-2
29	27.03	-4	9.73	+6	59.38	+1	50.77	-9	53.91	+6	46.30	-6
30	27.26	-2	9.57	+8	59.19	-2	50.56	-8	53.70	+5	46.37	-8
Juli 1	27.49	0	9.42	+9	59.00	-4	50.34	-7	53.48	+2	46.44	-9
2	27.72	+3	9.27	+8	58.81	-5	50.12	-4	53.27	0	46.50	-9
3	27.95	+4	9.12	+7	58.63	-6	49.90	-1	53.06	-2	46.55	-7
4	28.19	+5	8.98	+4	58.45	-5	49.67	+2	52.84	-4	46.60	-4
sec δ, tg δ	85° 9' 10"	11.834	-11.792	85° 21' 50"	12.372	-12.332	84° 42' 40"	10.849	-10.802			
	20	11.841	-11.799	60	12.379	-12.339	50	10.854	-10.808			

# Obere Kulmination Greenwich

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Tag	Octantis 20 G. 7 <sup>m</sup>				Octantis 26 G. 6 <sup>m</sup> - 7 <sup>m</sup>				χ Octantis 6 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	14 <sup>h</sup> 49 <sup>m</sup>	in 0.01	87° 50'	in 0.01	16 <sup>h</sup> 32 <sup>m</sup>	in 0.01	86° 13'	in 0.01	18 <sup>h</sup> 10 <sup>m</sup>	in 0.01	87° 39'	in 0.01
Mai 28	41.33	- 8	27.40	+ 6	22.22	- 7	37.63	+ 4	26.87	- 12	30.68	+ 1
29	41.20	0	27.72	+ 7	22.31	- 3	37.95	+ 6	27.21	- 8	30.94	+ 5
30	41.07	+ 7	28.05	+ 6	22.39	+ 1	38.27	+ 7	27.55	- 2	31.21	+ 7
31	40.93	+ 13	28.37	+ 3	22.46	+ 6	38.59	+ 6	27.88	+ 5	31.48	+ 8
Juni 1	40.78	+ 17	28.69	0	22.53	+ 9	38.91	+ 3	28.20	+ 12	31.75	+ 6
2	40.62	+ 17	29.01	- 4	22.59	+ 11	39.24	0	28.51	+ 16	32.03	+ 4
3	40.46	+ 14	29.32	- 7	22.65	+ 11	39.56	- 3	28.81	+ 18	32.30	0
4	40.28	+ 9	29.63	- 8	22.70	+ 9	39.88	- 6	29.10	+ 16	32.58	- 3
5	40.10	+ 4	29.94	- 9	22.75	+ 6	40.20	- 7	29.39	+ 13	32.86	- 5
6	39.91	- 2	30.24	- 8	22.79	+ 2	40.52	- 8	29.67	+ 8	33.14	- 6
7	39.70	- 7	30.54	- 5	22.82	- 1	40.84	- 7	29.94	+ 2	33.43	- 6
8	39.49	- 10	30.84	- 3	22.85	- 4	41.16	- 5	30.20	- 3	33.71	- 6
9	39.26	- 11	31.14	0	22.88	- 6	41.48	- 2	30.45	- 8	34.00	- 4
10	39.03	- 11	31.43	+ 3	22.90	- 7	41.80	+ 1	30.70	- 11	34.29	- 2
11	38.80	- 9	31.72	+ 5	22.92	- 7	42.12	+ 3	30.93	- 13	34.58	+ 1
12	38.55	- 5	32.01	+ 7	22.92	- 6	42.44	+ 6	31.16	- 12	34.88	+ 3
13	38.30	0	32.30	+ 8	22.93	- 4	42.75	+ 7	31.38	- 10	35.17	+ 5
14	38.04	+ 5	32.58	+ 7	22.92	- 1	43.07	+ 8	31.59	- 6	35.47	+ 7
15	37.77	+ 9	32.86	+ 5	22.91	+ 2	43.38	+ 7	31.79	- 1	35.76	+ 7
16	37.49	+ 10	33.14	+ 3	22.90	+ 5	43.70	+ 4	31.98	+ 4	36.06	+ 6
17	37.21	+ 10	33.41	- 1	22.88	+ 6	44.01	+ 1	32.16	+ 8	36.36	+ 3
18	36.91	+ 6	33.68	- 4	22.85	+ 5	44.32	- 2	32.34	+ 9	36.66	- 1
19	36.61	0	33.95	- 6	22.82	+ 3	44.63	- 5	32.50	+ 7	36.96	- 4
20	36.30	- 6	34.21	- 6	22.78	- 1	44.94	- 7	32.65	+ 3	37.27	- 7
21	35.98	- 12	34.47	- 4	22.73	- 5	45.25	- 7	32.80	- 3	37.57	- 8
22	35.66	- 15	34.73	- 1	22.68	- 8	45.56	- 5	32.94	- 9	37.88	- 7
23	35.33	- 15	34.98	+ 2	22.63	- 9	45.86	- 1	33.07	- 12	38.19	- 4
24	34.99	- 11	35.23	+ 5	22.57	- 8	46.16	+ 2	33.18	- 13	38.50	- 1
25	34.64	- 4	35.47	+ 7	22.50	- 6	46.46	+ 5	33.29	- 11	38.80	+ 3
26	34.29	+ 3	35.71	+ 7	22.43	- 1	46.76	+ 7	33.39	- 6	39.11	+ 6
27	33.93	+ 10	35.94	+ 5	22.36	+ 3	47.06	+ 7	33.48	+ 1	39.42	+ 8
28	33.56	+ 15	36.17	+ 2	22.28	+ 7	47.36	+ 5	33.57	+ 8	39.73	+ 7
29	33.18	+ 17	36.40	- 2	22.19	+ 10	47.65	+ 2	33.64	+ 13	40.04	+ 5
30	32.80	+ 15	36.62	- 5	22.10	+ 11	47.94	- 1	33.70	+ 16	40.35	+ 2
Juli 1	32.41	+ 11	36.84	- 8	22.00	+ 9	48.23	- 5	33.75	+ 16	40.66	- 1
2	32.01	+ 6	37.05	- 8	21.90	+ 7	48.52	- 7	33.80	+ 14	40.97	- 4
3	31.61	0	37.26	- 8	21.79	+ 4	48.80	- 8	33.83	+ 10	41.28	- 6
4	31.20	- 5	37.46	- 6	21.67	0	49.08	- 7	33.86	+ 4	41.59	- 7
sec δ, lg δ	87° 50' 30"	26.553	- 26.534		86° 13' 40"	15.200	- 15.167		87° 39' 30"	24.475	- 24.454	
	40	26.587	- 26.568		50	15.211	- 15.178		40	24.504	- 24.483	



Tag	$\sigma$ Octantis 6 <sup>m</sup>				$\beta$ Octantis 4 <sup>m</sup> .I				$\tau$ Octantis 6 <sup>m</sup>			
	AR.	$\alpha$ Gl.	Dekl.	$\alpha$ Gl.	AR.	$\alpha$ Gl.	Dekl.	$\alpha$ Gl.	AR.	$\alpha$ Gl.	Dekl.	$\alpha$ Gl.
1923	19 <sup>h</sup> 38 <sup>m</sup>	in 0.01	—89° 12'	in 0.01	22 <sup>h</sup> 38 <sup>m</sup>	in 0.01	—81° 46'	in 0.01	23 <sup>h</sup> 16 <sup>m</sup>	in 0.01	—87° 53'	in 0.01
Mai 28	19.26	—32	15.80	—1	14.70	—3	41.13	—5	48.54	—7	52.61	—6
29	20.66	—30	15.97	+3	14.86	—4	41.03	—2	49.11	—12	52.47	—3
30	22.05	—17	16.15	+6	15.02	—3	40.93	+2	49.68	—13	52.33	+1
31	23.42	+1	16.33	+8	15.18	—2	40.84	+6	50.26	—11	52.20	+5
Juni 1	24.77	+19	16.51	+8	15.35	0	40.76	+9	50.84	—7	52.08	+8
2	26.10	+35	16.70	+7	15.51	+2	40.68	+10	51.42	—1	51.96	+10
3	27.41	+45	16.89	+4	15.68	+3	40.61	+9	52.00	+5	51.85	+10
4	28.71	+47	17.09	+1	15.84	+4	40.54	+7	52.58	+10	51.74	+8
5	29.99	+42	17.29	—2	16.00	+4	40.48	+4	53.17	+13	51.64	+6
6	31.25	+31	17.50	—4	16.16	+4	40.42	+1	53.76	+14	51.54	+2
7	32.49	+17	17.70	—6	16.33	+3	40.37	—2	54.35	+12	51.45	—1
8	33.71	+1	17.91	—6	16.49	+2	40.32	—4	54.94	+8	51.36	—4
9	34.92	—14	18.12	—5	16.65	0	40.28	—6	55.53	+4	51.28	—6
10	36.10	—26	18.34	—4	16.81	—2	40.25	—7	56.13	—1	51.20	—7
11	37.26	—34	18.56	—2	16.97	—3	40.22	—6	56.72	—6	51.13	—7
12	38.41	—38	18.78	+1	17.14	—4	40.19	—5	57.32	—11	51.07	—6
13	39.53	—35	19.01	+3	17.30	—4	40.17	—3	57.91	—14	51.01	—4
14	40.63	—27	19.24	+5	17.46	—4	40.16	0	58.50	—14	50.95	—1
15	41.71	—14	19.47	+6	17.62	—3	40.15	+3	59.10	—12	50.90	+2
16	42.76	+2	19.71	+6	17.78	—1	40.15	+5	59.69	—8	50.86	+4
17	43.79	+16	19.95	+4	17.94	+1	40.15	+5	60.28	—1	50.82	+5
18	44.80	+25	20.20	+1	18.10	+2	40.16	+4	60.88	+5	50.79	+4
19	45.79	+27	20.45	—3	18.26	+3	40.17	+2	61.47	+11	50.77	+3
20	46.76	+20	20.70	—6	18.42	+4	40.19	—2	62.06	+14	50.75	0
21	47.70	+6	20.96	—8	18.58	+3	40.22	—5	62.66	+13	50.73	—4
22	48.62	—10	21.22	—8	18.74	+1	40.25	—7	63.25	+9	50.73	—7
23	49.52	—26	21.48	—6	18.89	—1	40.28	—8	63.84	+2	50.72	—8
24	50.39	—34	21.74	—3	19.05	—3	40.33	—7	64.43	—5	50.73	—7
25	51.24	—35	22.01	+1	19.20	—4	40.37	—4	65.02	—10	50.74	—5
26	52.06	—26	22.27	+5	19.36	—4	40.42	0	65.60	—13	50.75	—1
27	52.86	—10	22.54	+7	19.51	—3	40.48	+4	66.19	—13	50.77	+3
28	53.64	+8	22.82	+8	19.66	—1	40.54	+7	66.78	—10	50.80	+7
29	54.39	+27	23.09	+7	19.81	+1	40.61	+9	67.36	—4	50.83	+9
30	55.12	+39	23.37	+5	19.96	+2	40.68	+9	67.94	+2	50.87	+9
Juli 1	55.82	+45	23.65	+2	20.11	+4	40.76	+8	68.52	+8	50.91	+8
2	56.50	+43	23.93	—1	20.26	+4	40.85	+5	69.09	+12	50.95	+6
3	57.15	+35	24.21	—4	20.40	+4	40.94	+2	69.66	+14	51.01	+3
4	57.77	+22	24.50	—5	20.55	+3	41.03	—1	70.23	+13	51.07	0
sec $\delta$ , tg $\delta$	89° 12' 10"	71.872	—71.865		81° 46' 40"	6.992	—6.921		87° 53' 50"	27.254	—27.235	
	20	72.123	—72.116		50	6.995	—6.923		60	27.290	—27.271	

# Obere Kulmination Greenwich

Tag	Octantis 4 G. 6 <sup>m</sup>				ζ Octantis 6 <sup>m</sup> —5 <sup>m</sup>				ι Octantis 6 <sup>m</sup> —5 <sup>m</sup>					
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.		
1923	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 9'	in 0.01	9 <sup>h</sup> 7 <sup>m</sup>	in 0.01	-85° 21'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	-84° 42'	in 0.01		
Juli	4	28.19 +5	8.98 +4	58.45 -5	49.67 +2	52.84 -4	46.60 -4	5	28.43 +5	8.85 +1	58.28 -4	49.44 +4	52.63 -5	46.64 -1
	6	28.67 +4	8.72 -2	58.11 -2	49.20 +6	52.42 -5	46.68 +2	7	28.91 +3	8.59 -5	57.94 0	48.96 +6	52.20 -4	46.71 +5
	8	29.15 +1	8.47 -7	57.77 +2	48.72 +6	51.99 -3	46.74 +6	9	29.39 -1	8.36 -8	57.61 +4	48.48 +4	51.77 -1	46.76 +7
	10	29.64 -3	8.25 -7	57.45 +5	48.23 +2	51.55 +1	46.78 +7	11	29.88 -4	8.15 -6	57.30 +6	47.98 -1	51.34 +3	46.79 +6
	12	30.13 -5	8.06 -3	57.15 +5	47.72 -3	51.12 +4	46.79 +3	13	30.38 -4	7.97 -0	57.00 +4	47.46 -5	50.90 +5	46.79 0
	14	30.62 -3	7.88 +3	56.86 +2	47.20 -6	50.69 +4	46.78 -3	15	30.87 0	7.81 +5	56.72 -1	46.93 -5	50.47 +2	46.77 -5
	16	31.13 +2	7.74 +6	56.59 -3	46.67 -3	50.26 0	46.75 -6	17	31.38 +4	7.67 +5	56.46 -5	46.40 +1	50.04 -3	46.72 -5
	18	31.63 +6	7.61 +2	56.33 -5	46.13 +4	49.82 -5	46.69 -2	19	31.88 +6	7.55 -1	56.21 -4	45.85 +7	49.61 -6	46.65 +1
	20	32.14 +4	7.50 -4	56.09 -2	45.57 +8	49.39 -6	46.61 +4	21	32.39 +2	7.46 -6	55.98 +1	45.29 +7	49.18 -4	46.56 +6
	22	32.65 -1	7.42 -7	55.87 +3	45.00 +5	48.96 -1	46.51 +7	23	32.90 -4	7.39 -6	55.77 +5	44.72 +1	48.75 +2	46.45 +6
	24	33.15 -6	7.37 -3	55.67 +5	44.43 -3	48.54 +4	46.38 +3	25	33.40 -6	7.35 +1	55.57 +4	44.14 -6	48.32 +6	46.31 -1
	26	33.66 -5	7.33 +4	55.48 +2	43.85 -8	48.11 +6	46.23 -4	27	33.91 -3	7.32 +7	55.39 -1	43.55 -9	47.91 +5	46.15 -7
	28	34.16 -1	7.32 +8	55.31 -3	43.26 -7	47.70 +3	46.06 -9	29	34.41 +2	7.32 +8	55.23 -5	42.96 -5	47.49 -1	45.97 -9
	30	34.66 +3	7.33 +7	55.16 -6	42.66 -2	47.29 -2	45.87 -7	31	34.91 +5	7.35 +5	55.09 -5	42.35 +1	47.08 -3	45.76 -5
Aug.	1	35.16 +5	7.37 +2	55.02 -4	42.05 +4	46.88 -4	45.65 -2	2	35.41 +4	7.40 -1	54.96 -3	41.74 +5	46.68 -5	45.54 +1
	3	35.66 +3	7.44 -4	54.91 -1	41.43 +6	46.48 -4	45.42 +4	4	35.91 +2	7.48 -6	54.86 +1	41.13 +6	46.28 -3	45.29 +6
	5	36.16 0	7.52 -8	54.81 +3	40.82 +5	46.08 -1	45.16 +7	6	36.41 -2	7.57 -8	54.76 +5	40.50 +3	45.88 0	45.03 +7
	7	36.66 -4	7.63 -6	54.72 +6	40.19 0	45.69 +2	44.89 +7	8	36.90 -5	7.69 -4	54.69 +6	39.88 -2	45.49 +4	44.74 +5
	9	37.15 -5	7.76 -2	54.66 +5 54.64 +3	39.56 -4 39.25 -5	45.30 +5	44.59 +2	10	37.39 -4	7.84 +2	54.62 0	38.93 -5	45.11 +5	44.43 -1

sec δ, tg δ	85° 9' 0"	11.828	-11.785	85° 21' 40"	12.365	-12.324	84° 42' 40"	10.849	-10.802
	10	11.834	-11.792	50	12.372	-12.332	50	10.854	-10.808



Tag	Octantis 20 G. 7 <sup>m</sup>				Octantis 26 G. 6 <sup>m</sup> 7 <sup>m</sup>				γ Octantis 6 <sup>m</sup>				
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	
1923	14 <sup>h</sup> 49 <sup>m</sup>	in 0.01	—87° 50'	in 0.01	16 <sup>h</sup> 32 <sup>m</sup>	in 0.01	—86° 13'	in 0.01	18 <sup>h</sup> 10 <sup>m</sup>	in 0.01	—87° 39'	in 0.01	
Juli	4	31.20	— 5	37.46	— 6	21.67	0	49.08	— 7	33.86	+ 4	41.59	— 7
	5	30.79	— 9	37.66	— 4	21.55	— 3	49.36	— 6	33.88	— 1	41.90	— 6
	6	30.37	— 11	37.86	— 1	21.43	— 6	49.63	— 3	33.88	— 6	42.21	— 5
	7	29.95	— 11	38.05	+ 2	21.30	— 7	49.90	— 1	33.88	— 10	42.51	— 3
	8	29.52	— 10	38.24	+ 5	21.17	— 8	50.17	+ 3	33.87	— 12	42.82	0
	9	29.08	— 7	38.42	+ 7	21.03	— 7	50.44	+ 5	33.85	— 13	43.13	+ 2
	10	28.64	— 3	38.60	+ 8	20.89	— 5	50.71	+ 7	33.82	— 11	43.44	+ 5
	11	28.19	+ 3	38.77	+ 7	20.74	— 2	50.97	+ 8	33.78	— 7	43.75	+ 6
	12	27.73	+ 7	38.94	+ 6	20.59	+ 1	51.23	+ 7	33.73	— 2	44.06	+ 7
	13	27.27	+ 10	39.10	+ 3	20.43	+ 4	51.48	+ 5	33.67	+ 3	44.36	+ 6
	14	26.80	+ 11	39.25	0	20.26	+ 6	51.73	+ 2	33.60	+ 7	44.66	+ 4
	15	26.33	+ 8	39.40	— 3	20.09	+ 6	51.98	— 1	33.52	+ 9	44.96	+ 1
	16	25.86	+ 4	39.55	— 6	19.92	+ 5	52.23	— 4	33.43	+ 9	45.26	— 3
	17	25.38	— 3	39.69	— 6	19.74	+ 2	52.47	— 7	33.34	+ 6	45.56	— 6
	18	24.90	— 9	39.83	— 5	19.56	— 2	52.71	— 7	33.23	+ 1	45.86	— 8
	19	24.42	— 14	39.96	— 3	19.37	— 6	52.94	— 6	33.12	— 5	46.15	— 7
	20	23.93	— 15	40.08	0	19.18	— 8	53.18	— 3	33.00	— 10	46.44	— 6
	21	23.43	— 12	40.20	+ 4	18.98	— 8	53.41	+ 1	32.86	— 13	46.74	— 2
	22	22.93	— 7	40.32	+ 6	18.78	— 7	53.63	+ 4	32.72	— 12	47.03	+ 2
	23	22.43	0	40.43	+ 7	18.57	— 3	53.85	+ 7	32.57	— 8	47.32	+ 5
	24	21.92	+ 8	40.53	+ 6	18.36	+ 2	54.07	+ 7	32.41	— 2	47.60	+ 7
	25	21.41	+ 13	40.63	+ 3	18.15	+ 6	54.28	+ 6	32.24	+ 5	47.89	+ 8
	26	20.89	+ 16	40.72	0	17.93	+ 9	54.48	+ 3	32.06	+ 11	48.17	+ 6
	27	20.37	+ 16	40.81	— 4	17.71	+ 10	54.68	0	31.87	+ 15	48.45	+ 4
	28	19.85	+ 12	40.89	— 7	17.48	+ 10	54.88	— 3	31.68	+ 16	48.73	0
	29	19.33	+ 8	40.97	— 8	17.25	+ 8	55.07	— 6	31.47	+ 15	49.01	— 3
	30	18.80	+ 2	41.04	— 8	17.01	+ 5	55.26	— 7	31.25	+ 11	49.28	— 5
	31	18.27	— 4	41.11	— 7	16.77	+ 1	55.44	— 7	31.03	+ 6	49.55	— 6
Aug.	1	17.74	— 8	41.17	— 5	16.53	— 2	55.62	— 6	30.80	0	49.82	— 7
	2	17.21	— 11	41.22	— 2	16.29	— 5	55.80	— 4	30.56	— 5	50.09	— 6
	3	16.68	— 12	41.27	+ 1	16.04	— 7	55.97	— 2	30.31	— 9	50.35	— 4
	4	16.14	— 11	41.31	+ 4	15.79	— 8	56.14	+ 1	30.05	— 12	50.61	— 1
	5	15.60	— 8	41.35	+ 6	15.53	— 7	56.30	+ 4	29.79	— 13	50.87	+ 1
	6	15.06	— 4	41.38	+ 7	15.27	— 6	56.46	+ 6	29.51	— 12	51.13	+ 4
	7	14.52	+ 1	41.40	+ 8	15.01	— 3	56.61	+ 8	29.23	— 10	51.38	+ 6
	8	13.98	+ 5	41.42	+ 7	14.74	0	56.76	+ 8	28.94	— 5	51.63	+ 7
	9	13.44	+ 9	41.43	+ 5	14.47	+ 3	56.90	+ 6	28.64	0	51.87	+ 7
	10	12.89	+ 10	41.44	+ 2	14.20	+ 5	57.04	+ 4	28.34	+ 5	52.11	+ 5
sec δ, tg δ	87° 50' 30"	26.553	— 26.534	86° 13' 50"	15.211	— 15.178	87° 39' 40"	24.504	— 24.483				
	40	26.587	— 26.568	60	15.222	— 15.189	50	24.533	— 24.513				





Tag	Octantis 4 G. 6 <sup>m</sup>				ζ Octantis 6 <sup>m</sup> —5 <sup>m</sup>				ι Octantis 6 <sup>m</sup> —5 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 9'	in 0.01	9 <sup>h</sup> 7 <sup>m</sup>	in 0.01	-85° 21'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	-84° 42'	in 0.01
Aug. 10	37.39	-4	7.84	+2	54.62	0	38.93	-5	45.11	+5	44.43	-1
11	37.63	-2	7.92	+4	54.61	-2	38.61	-4	44.92	+3	44.27	-4
12	37.87	+1	8.00	+6	54.60	-4	38.30	-1	44.74	+1	44.10	-5
13	38.11	+4	8.09	+6	54.60	-5	37.98	+2	44.56	-2	43.93	-5
14	38.34	+5	8.19	+4	54.60	-5	37.66	+5	44.38	-4	43.76	-4
15	38.58	+6	8.29	+1	54.60	-3	37.35	+7	44.20	-6	43.58	-1
16	38.82	+5	8.40	-2	54.61	0	37.03	+7	44.02	-6	43.39	+2
17	39.05	+3	8.52	-5	54.62	+2	36.72	+5	43.84	-5	43.20	+5
18	39.28	0	8.64	-6	54.64	+4	36.40	+2	43.67	-2	43.00	+6
19	39.51	-3	8.76	-6	54.67	+5	36.08	-2	43.50	0	42.80	+6
20	39.74	-5	8.89	-4	54.70	+4	35.77	-5	43.33	+4	42.60	+4
21	39.96	-6	9.03	-1	54.74	+3	35.45	-8	43.17	+6	42.39	+1
22	40.18	-6	9.17	+3	54.78	0	35.14	-9	43.01	+6	42.18	-3
23	40.40	-4	9.32	+6	54.82	-2	34.82	-8	42.85	+6	41.96	-6
24	40.62	-2	9.47	+8	54.87	-4	34.51	-6	42.69	+4	41.74	-8
25	40.84	+1	9.63	+9	54.92	-5	34.20	-3	42.54	+2	41.51	-9
26	41.06	+3	9.80	+8	54.98	-6	33.89	0	42.39	-1	41.28	-8
27	41.27	+4	9.97	+6	55.04	-5	33.58	+3	42.24	-3	41.05	-6
28	41.48	+5	10.14	+3	55.11	-3	33.27	+5	42.09	-4	40.81	-3
29	41.68	+5	10.32	0	55.18	-1	32.96	+6	41.95	-5	40.57	0
30	41.88	+4	10.50	-3	55.26	0	32.66	+6	41.81	-5	40.32	+3
31	42.08	+2	10.69	-6	55.34	+3	32.36	+5	41.67	-4	40.07	+5
Sept. 1	42.28	0	10.89	-7	55.43	+4	32.06	+4	41.54	-2	39.82	+7
2	42.47	-2	11.09	-8	55.52	+5	31.76	+2	41.41	0	39.56	+8
3	42.66	-3	11.29	-8	55.61	+6	31.46	-1	41.29	+2	39.30	+7
4	42.85	-4	11.50	-6	55.71	+5	31.16	-3	41.17	+3	39.04	+6
5	43.04	-5	11.71	-3	55.81	+4	30.87	-5	41.05	+4	38.77	+3
6	43.22	-4	11.93	0	55.92	+1	30.58	-5	40.93	+5	38.50	0
7	43.40	-2	12.15	+3	56.03	-1	30.29	-4	40.82	+4	38.23	-2
8	43.57	0	12.38	+5	56.15	-3	30.01	-2	40.71	+2	37.95	-4
9	43.74	+2	12.61	+6	56.27	-5	29.72	+1	40.61	-1	37.67	-5
10	43.91	+5	12.84	+5	56.40	-5	29.44	+5	40.51	-3	37.39	-4
11	44.07	+6	13.08	+2	56.53	-4	29.17	+7	40.41	-5	37.11	-2
12	44.23	+6	13.32	-1	56.67	-2	28.89	+8	40.32	-6	36.82	+1
13	44.39	+4	13.57	-4	56.81	+1	28.62	+6	40.23	-5	36.53	+4
14	44.54	+1	13.82	-6	56.95	+3	28.35	+3	40.15	-3	36.24	+6
15	44.69	-2	14.08	-6	57.10	+5	28.08	0	40.07	0	35.95	+6
16	44.84	-5	14.34	-5	57.25	+5	27.82	-4	39.99	+2	35.65	+5
sec δ, μ δ	85° 9' 10"	11.834	-11.792		85° 21' 30"	12.357	-12.317		84° 42' 40"	10.849	-10.802	
	20	11.841	-11.799		40	12.365	-12.324		50	10.854	-10.808	

Tag	Octantis 20 G. 7 <sup>m</sup>				Octantis 26 G. 6 <sup>m</sup> - 7 <sup>m</sup>				χ Octantis 6 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	14 <sup>h</sup> 48 <sup>m</sup>	in 0.01	-87° 50'	in 0.01	16 <sup>h</sup> 32 <sup>m</sup>	in 0.01	-86° 13'	in 0.01	18 <sup>h</sup> 10 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
Aug. 10	72.89	+10	41.44	+2	14.20	+5	57.04	+4	28.34	+5	52.11	+5
11	72.35	+10	41.44	-2	13.93	+6	57.17	0	28.02	+8	52.35	+2
12	71.80	+6	41.43	-5	13.65	+5	57.30	-3	27.70	+9	52.58	-1
13	71.26	0	41.42	-6	13.37	+3	57.42	-6	27.37	+8	52.81	-5
14	70.72	-6	41.40	-6	13.09	-1	57.54	-7	27.04	+4	53.04	-7
15	70.18	-12	41.38	-4	12.80	-4	57.65	-7	26.69	-2	53.26	-8
16	69.63	-14	41.36	-2	12.51	-7	57.75	-5	26.34	-7	53.48	-7
17	69.09	-13	41.32	+2	12.22	-8	57.85	-1	25.99	-11	53.70	-4
18	68.55	-9	41.28	+5	11.93	-7	57.95	+2	25.62	-12	53.91	0
19	68.01	-2	41.23	+6	11.63	-4	58.04	+6	25.25	-9	54.12	+4
20	67.47	+5	41.18	+6	11.33	0	58.13	+7	24.87	-4	54.32	+7
21	66.93	+12	41.13	+4	11.03	+5	58.21	+6	24.48	+3	54.52	+8
22	66.40	+16	41.06	+1	10.73	+8	58.28	+5	24.09	+9	54.71	+7
23	65.86	+16	40.99	-2	10.43	+10	58.35	+1	23.70	+14	54.90	+5
24	65.33	+14	40.92	-6	10.13	+10	58.41	-2	23.30	+16	55.08	+2
25	64.80	+10	40.84	-8	9.82	+9	58.47	-5	22.89	+15	55.26	-2
26	64.27	+4	40.75	-8	9.51	+6	58.52	-7	22.48	+12	55.44	-4
27	63.74	-2	40.66	-8	9.21	+2	58.56	-7	22.06	+8	55.61	-6
28	63.22	-7	40.56	-6	8.90	-1	58.60	-7	21.63	+2	55.78	-7
29	62.70	-10	40.45	-3	8.59	-4	58.63	-5	21.20	-3	55.94	-6
30	62.18	-12	40.34	0	8.28	-7	58.66	-3	20.76	-8	56.10	-5
31	61.67	-11	40.23	+3	7.97	-8	58.68	0	20.32	-11	56.25	-2
Sept. 1	61.16	-10	40.11	+6	7.66	-8	58.70	+3	19.87	-13	56.39	0
2	60.65	-6	39.98	+7	7.35	-7	58.71	+5	19.42	-13	56.53	+3
3	60.15	-2	39.85	+8	7.04	-5	58.71	+7	18.96	-11	56.67	+5
4	59.65	+3	39.72	+8	6.73	-2	58.71	+8	18.50	-8	56.80	+7
5	59.15	+7	39.58	+6	6.41	+1	58.70	+7	18.03	-3	56.92	+7
6	58.66	+10	39.43	+3	6.10	+4	58.69	+5	17.56	+2	57.04	+6
7	58.17	+9	39.28	0	5.78	+5	58.67	+2	17.08	+6	57.16	+3
8	57.69	+7	39.12	-3	5.47	+5	58.65	-1	16.60	+8	57.27	0
9	57.21	+2	38.96	-5	5.15	+3	58.62	-5	16.11	+8	57.38	-4
10	56.74	-4	38.79	-6	4.84	0	58.58	-7	15.63	+5	57.48	-6
11	56.28	-10	38.62	-5	4.53	-3	58.54	-7	15.14	0	57.57	-8
12	55.82	-14	38.44	-3	4.22	-6	58.49	-6	14.64	-5	57.65	-7
13	55.36	-14	38.26	0	3.90	-8	58.43	-3	14.15	-9	57.73	-5
14	54.92	-11	38.07	+4	3.59	-7	58.37	+1	13.65	-11	57.81	-2
15	54.47	-5	37.88	+6	3.28	-5	58.31	+4	13.15	-10	57.88	+2
16	54.04	+3	37.68	+6	2.97	-1	58.24	+7	12.65	-5	57.94	+6

sec δ, tg δ    87° 50' 30" | 26.553 | -26.534    86° 13' 50" | 15.211 | -15.178    87° 39' 50" | 24.533 | -24.513  
                   40 | 26.587 | -26.568                    60 | 15.222 | -15.189                    60 | 24.562 | -24.542



Tag	$\sigma$ Octantis 6 <sup>m</sup>				$\beta$ Octantis 4 <sup>m</sup> .I				$\tau$ Octantis 6 <sup>m</sup>			
	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.
1923	19 <sup>h</sup> 38 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 38 <sup>m</sup>	in 0.01	-81° 46'	in 0.01	23 <sup>h</sup> 17 <sup>m</sup>	in 0.01	-87° 53'	in 0.01
Aug. 10	61.53	+ 5	35.69	+ 6	24.79	- 1	47.82	+ 5	27.94	- 6	56.88	+ 4
11	61.10	+19	35.99	+ 4	24.86	+ 1	48.08	+ 5	28.29	0	57.12	+ 5
12	60.65	+28	36.28	+ 1	24.93	+ 3	48.34	+ 4	28.64	+ 7	57.37	+ 5
13	60.16	+29	36.58	- 3	25.00	+ 4	48.61	+ 2	28.97	+12	57.62	+ 3
14	59.64	+22	36.87	- 6	25.06	+ 4	48.87	- 1	29.29	+14	57.87	0
15	59.10	+ 8	37.16	- 8	25.13	+ 3	49.14	- 5	29.61	+13	58.13	- 3
16	58.53	- 8	37.44	- 8	25.19	+ 1	49.42	- 7	29.92	+ 8	58.39	- 6
17	57.94	-22	37.73	- 6	25.25	- 1	49.69	- 7	30.22	+ 2	58.65	- 7
18	57.32	-31	38.01	- 2	25.30	- 2	49.97	- 6	30.51	- 5	58.92	- 6
19	56.67	-31	38.29	+ 2	25.35	- 3	50.25	- 3	30.79	-11	59.19	- 4
20	56.00	-22	38.57	+ 6	25.41	- 4	50.53	+ 1	31.06	-14	59.46	0
21	55.30	- 6	38.84	+ 8	25.45	- 3	50.82	+ 5	31.32	-13	59.74	+ 4
22	54.57	+12	39.12	+ 8	25.50	- 1	51.10	+ 8	31.57	- 9	60.02	+ 7
23	53.82	+28	39.39	+ 7	25.54	+ 1	51.39	+ 9	31.81	- 3	60.30	+ 9
24	53.04	+40	39.66	+ 5	25.58	+ 3	51.68	+ 9	32.04	+ 4	60.59	+ 9
25	52.24	+43	39.92	+ 1	25.62	+ 4	51.97	+ 7	32.27	+ 9	60.87	+ 8
26	51.42	+40	40.18	- 2	25.66	+ 4	52.27	+ 4	32.48	+12	61.16	+ 5
27	50.57	+31	40.44	- 4	25.69	+ 4	52.56	+ 1	32.68	+14	61.45	+ 2
28	49.70	+17	40.69	- 6	25.72	+ 3	52.86	- 2	32.87	+12	61.75	- 1
29	48.80	+ 2	40.94	- 6	25.75	+ 2	53.16	- 4	33.05	+ 9	62.04	- 4
30	47.88	-13	41.19	- 6	25.77	0	53.46	- 6	33.22	+ 5	62.34	- 6
31	46.93	-25	41.43	- 4	25.79	- 1	53.76	- 7	33.38	0	62.64	- 7
Sept. 1	45.96	-35	41.67	- 2	25.81	- 3	54.06	- 7	33.53	- 5	62.94	- 7
2	44.97	-39	41.91	0	25.82	- 4	54.36	- 6	33.67	-10	63.24	- 6
3	43.95	-38	42.14	+ 3	25.84	- 4	54.66	- 3	33.80	-13	63.55	- 5
4	42.92	-31	42.37	+ 5	25.85	- 4	54.97	- 1	33.92	-14	63.85	- 2
5	41.86	-19	42.59	+ 6	25.85	- 3	55.28	+ 2	34.03	-13	64.16	+ 1
6	40.77	- 4	42.81	+ 6	25.86	- 2	55.58	+ 4	34.12	- 9	64.47	+ 3
7	39.67	+11	43.03	+ 4	25.86	0	55.89	+ 5	34.21	- 3	64.78	+ 4
8	38.55	+22	43.24	+ 2	25.86	+ 2	56.20	+ 4	34.28	+ 4	65.09	+ 5
9	37.41	+27	43.45	- 2	25.85	+ 3	56.50	+ 2	34.35	+10	65.40	+ 3
10	36.24	+24	43.65	- 5	25.84	+ 4	56.81	0	34.40	+13	65.71	+ 1
11	35.06	+14	43.85	- 7	25.83	+ 3	57.12	- 4	34.44	+14	66.02	- 2
12	33.86	- 1	44.05	- 8	25.82	+ 2	57.42	- 6	34.47	+11	66.34	- 5
13	32.64	-16	44.24	- 7	25.80	0	57.73	- 7	34.49	+ 5	66.65	- 7
14	31.40	-27	44.42	- 3	25.78	- 2	58.04	- 6	34.50	- 2	66.97	- 6
15	30.15	-30	44.60	0	25.76	- 3	58.34	- 4	34.50	- 9	67.28	- 4
16	28.87	-24	44.78	+ 4	25.74	- 4	58.65	0	34.49	-13	67.60	- 1
sec $\delta$ , lg $\delta$	89° 12' 30"	72.376	-72.369		81° 46' 50"	6.995	-5.923		87° 53' 60"	27.290	-27.271	
	40	72.631	-72.624		60	6.997	-5.925		70	27.326	-27.308	

# Obere Kulmination Greenwich

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Tag	Octantis 4 G. 6 <sup>m</sup>				ζ Octantis 6 <sup>m</sup> - 5 <sup>m</sup>				ι Octantis 6 <sup>m</sup> - 5 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 9'	in 0.01	9 <sup>h</sup> 7 <sup>m</sup>	in 0.01	-85° 21'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	-84° 42'	in 0.01
Sept. 16	44.84	-5	14.34	-5	57.25	+5	27.82	-4	39.99	+2	35.65	+5
17	44.98	-6	14.60	-2	57.41	+3	27.56	-7	39.91	+5	35.35	+2
18	45.12	-6	14.87	+2	57.57	+1	27.30	-9	39.84	+6	35.05	-2
19	45.25	-5	15.14	+5	57.73	-1	27.05	-9	39.78	+6	34.75	-5
20	45.38	-3	15.41	+8	57.90	-4	26.80	-7	39.72	+5	34.44	-8
21	45.51	0	15.69	+9	58.07	-5	26.56	-5	39.66	+3	34.14	-9
22	45.63	+2	15.97	+9	58.25	-6	26.32	-1	39.61	0	33.83	-9
23	45.75	+4	16.25	+7	58.43	-5	26.09	+2	39.56	-2	33.53	-7
24	45.86	+5	16.54	+4	58.62	-4	25.86	+4	39.52	-4	33.22	-4
25	45.97	+5	16.83	+1	58.81	-2	25.63	+6	39.48	-5	32.91	-1
26	46.07	+4	17.12	-2	59.00	0	25.41	+6	39.44	-5	32.60	+2
27	46.17	+3	17.42	-5	59.20	+2	25.19	+6	39.41	-4	32.29	+4
28	46.26	+1	17.72	-7	59.40	+4	24.98	+4	39.38	-3	31.97	+6
29	46.35	-1	18.02	-8	59.60	+5	24.77	+3	39.36	-1	31.66	+7
30	46.43	-3	18.32	-8	59.80	+6	24.57	0	39.34	+1	31.34	+7
Okt. 1	46.51	-4	18.62	-7	60.01	+6	24.38	-2	39.33	+3	31.03	+6
2	46.59	-5	18.93	-5	60.22	+4	24.19	-4	39.32	+4	30.71	+4
3	46.66	-4	19.24	-2	60.44	+3	24.00	-5	39.32	+4	30.40	+2
4	46.73	-3	19.55	+1	60.66	0	23.82	-4	39.32	+3	30.08	-1
5	46.79	-1	19.86	+4	60.88	-2	23.64	-2	39.33	0	29.77	-3
6	46.85	+2	20.17	+5	61.11	-4	23.47	0	39.34	-2	29.45	-4
7	46.90	+4	20.48	+5	61.34	-5	23.30	+4	39.36	-5	29.14	-4
8	46.95	+6	20.80	+3	61.57	-4	23.14	+7	39.38	-6	28.82	-2
9	47.00	+6	21.12	0	61.80	-2	22.98	+8	39.41	-6	28.51	0
10	47.04	+5	21.43	-3	62.03	0	22.83	+8	39.44	-5	28.20	+3
11	47.07	+2	21.75	-5	62.27	+2	22.69	+5	39.48	-2	27.88	+5
12	47.10	0	22.07	-6	62.51	+4	22.55	+2	39.52	+1	27.57	+6
13	47.13	-3	22.39	-5	62.75	+5	22.42	-3	39.57	+4	27.26	+5
14	47.15	-5	22.71	-3	63.00	+4	22.29	-6	39.57	+4	26.95	+3
15	47.16	-6	23.04	+1	63.25	+2	22.17	-9	39.62	+6	26.64	-1
16	47.17	-6	23.36	+4	63.50	0	22.05	-10	39.67	+7	26.34	-5
17	47.18	-4	23.68	+8	63.75	-3	21.94	-9	39.73	+6	26.03	-8
18	47.18	-2	24.01	+9	64.00	-5	21.84	-6	39.79	+4	25.73	-9
19	47.18	+1	24.33	+10	64.26	-6	21.74	-3	39.86	+2	25.43	-10
20	47.17	+3	24.66	+8	64.51	-6	21.65	0	39.93	-1	25.13	-8
21	47.15	+4	24.98	+6	64.77	-5	21.56	+3	40.01	-3	24.84	-6
22	47.13	+5	25.30	+3	65.03	-3	21.48	+5	40.09	-4	24.54	-3
23	47.11	+4	25.62	0	65.29	-1	21.41	+6	40.17	-5	24.25	0
									40.26	-4	23.96	+3
sec δ, tg δ	85° 9' 10"	11.834	-11.792		85° 21' 20"	12.350	-12.309		84° 42' 20"	10.837	-10.791	
	20	11.841	-11.799		30	12.357	-12.317		30	10.843	-10.797	

Tag	Octantis 20 G. 7 <sup>m</sup>				Octantis 26 G. 6 <sup>m</sup> - 7 <sup>m</sup>				χ Octantis 6 <sup>m</sup>			
	AR.	♄ Gl.	Dekl.	♄ Gl.	AR.	♄ Gl.	Dekl.	♄ Gl.	AR.	♄ Gl.	Dekl.	Gl.
1923	14 <sup>h</sup> 48 <sup>m</sup>	in 0.01	-87° 50'	in 0.01	16 <sup>h</sup> 31 <sup>m</sup>	in 0.01	-86° 13'	in 0.01	18 <sup>h</sup> 9 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
Sept. 16	54.04	+ 3	37.68	+ 6	62.97	- 1	58.24	+ 7	72.65	- 5	57.94	+ 6
17	53.61	+10	37.48	+ 5	62.66	+ 3	58.16	+ 7	72.14	0	58.00	+ 8
18	53.19	+15	37.27	+ 2	62.35	+ 7	58.07	+ 5	71.63	+ 7	58.05	+ 8
19	52.77	+17	37.06	- 1	62.05	+10	57.98	+ 3	71.12	+13	58.10	+ 6
20	52.37	+16	36.84	- 5	61.75	+11	57.89	- 1	70.61	+16	58.14	+ 3
21	51.97	+12	36.62	- 7	61.45	+10	57.79	- 4	70.10	+17	58.17	0
22	51.58	+ 7	36.39	- 8	61.15	+ 8	57.68	- 6	69.59	+15	58.20	- 3
23	51.19	0	36.16	- 8	60.85	+ 4	57.57	- 7	69.08	+10	58.22	- 6
24	50.82	- 5	35.93	- 7	60.55	0	57.46	- 7	68.56	+ 5	58.24	- 7
25	50.45	- 9	35.69	- 4	60.26	- 3	57.34	- 6	68.04	- 1	58.25	- 7
26	50.08	-11	35.45	- 1	59.97	- 6	57.21	- 4	67.53	- 6	58.25	- 5
27	49.73	-12	35.21	+ 2	59.68	- 7	57.08	- 1	67.01	-10	58.25	- 3
28	49.38	-10	34.96	+ 4	59.39	- 8	56.94	+ 2	66.49	-12	58.24	- 1
29	49.05	- 7	34.71	+ 7	59.11	- 7	56.80	+ 4	65.98	-13	58.23	+ 2
30	48.72	- 4	34.45	+ 8	58.83	- 6	56.65	+ 6	65.46	-12	58.21	+ 4
Okt. 1	48.40	+ 1	34.19	+ 8	58.55	- 3	56.49	+ 8	64.94	- 9	58.18	+ 6
2	48.09	+ 5	33.93	+ 7	58.28	0	56.33	+ 8	64.43	- 5	58.15	+ 7
3	47.79	+ 8	33.66	+ 5	58.01	+ 2	56.17	+ 6	63.92	0	58.11	+ 6
4	47.50	+ 9	33.39	+ 2	57.74	+ 4	56.00	+ 4	63.41	+ 4	58.07	+ 5
5	47.22	+ 8	33.12	- 2	57.48	+ 5	55.82	0	62.90	+ 7	58.02	+ 2
6	46.94	+ 3	32.84	- 4	57.22	+ 4	55.64	- 3	62.39	+ 7	57.96	- 2
7	46.68	- 2	32.56	- 6	56.96	+ 1	55.46	- 6	61.88	+ 5	57.90	- 5
8	46.43	- 9	32.28	- 5	56.71	- 2	55.27	- 7	61.38	+ 1	57.83	- 7
9	46.18	-13	32.00	- 3	56.46	- 6	55.07	- 6	60.88	- 4	57.76	- 8
10	45.95	-15	31.72	- 1	56.21	- 8	54.87	- 4	60.38	- 9	57.67	- 6
11	45.73	-14	31.43	+ 2	55.97	- 9	54.67	- 1	59.88	-12	57.59	- 3
12	45.52	- 8	31.14	+ 5	55.73	- 7	54.46	+ 3	59.39	-12	57.49	+ 1
13	45.31	- 1	30.84	+ 6	55.50	- 3	54.25	+ 6	58.90	- 8	57.39	+ 4
14	45.12	+ 7	30.54	+ 6	55.27	+ 1	54.03	+ 7	58.41	- 2	57.29	+ 7
15	44.94	+14	30.24	+ 3	55.05	+ 6	53.81	+ 6	57.92	+ 5	57.18	+ 8
16	44.76	+17	29.94	0	54.83	+10	53.59	+ 4	57.44	+12	57.06	+ 7
17	44.60	+18	29.63	- 4	54.61	+12	53.36	+ 1	56.96	+16	56.94	+ 4
18	44.45	+15	29.32	- 7	54.40	+11	53.12	- 3	56.49	+18	56.81	+ 1
19	44.31	+10	29.02	- 8	54.20	+ 9	52.88	- 6	56.02	+17	56.68	- 2
20	44.19	+ 4	28.71	- 9	54.00	+ 6	52.64	- 7	55.55	+13	56.54	- 5
21	44.07	- 2	28.40	- 8	53.80	+ 2	52.39	- 8	55.09	+ 8	56.40	- 6
22	43.97	- 7	28.09	- 6	53.61	- 1	52.14	- 7	54.64	+ 2	56.25	- 7
23	43.87	-10	27.78	- 3	53.43	- 4	51.89	- 5	54.19	- 3	56.10	- 6
sec δ, tg δ	87° 50' 30"	26.553	-26.534		86° 13' 50"	15.211	-15.178		87° 39' 50"	24.533	-24.513	
	40	26.587	-26.568		60	15.222	-15.189		60	24.562	-24.542	



# Obere Kulmination Greenwich

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Tag	$\alpha$ Octantis 6 <sup>m</sup>				$\beta$ Octantis 4 <sup>m</sup> .I				$\gamma$ Octantis 6 <sup>m</sup>			
	AR.	$\alpha$ Gl.	Dekl.	$\alpha$ Gl.	AR.	$\alpha$ Gl.	Dekl.	$\alpha$ Gl.	AR.	$\alpha$ Gl.	Dekl.	$\alpha$ Gl.
1923	19 <sup>h</sup> 37 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 38 <sup>m</sup>	in 0.01	-81° 46'	in 0.01	23 <sup>h</sup> 17 <sup>m</sup>	in 0.01	-87° 54'	in 0.01
Sept. 16	88.87	-24	44.78	+4	25.74	-4	58.65	0	34.49	-13	7.60	-1
17	87.58	-11	44.95	+7	25.71	-3	58.95	+4	34.47	-13	7.92	+3
18	86.28	+7	45.11	+9	25.68	-2	59.25	+7	34.43	-10	8.23	+6
19	84.96	+24	45.27	+8	25.65	0	59.55	+9	34.39	-5	8.55	+9
20	83.62	+38	45.43	+6	25.61	+2	59.85	+10	34.33	+1	8.86	+10
21	82.27	+45	45.58	+3	25.57	+4	60.15	+8	34.26	+7	9.18	+9
22	80.90	+44	45.73	0	25.53	+4	60.45	+6	34.18	+11	9.49	+7
23	79.52	+37	45.87	-3	25.48	+4	60.75	+2	34.09	+14	9.80	+4
24	78.12	+24	46.00	-5	25.44	+4	61.04	-1	33.99	+13	10.11	0
25	76.71	+9	46.13	-6	25.39	+2	61.33	-4	33.88	+11	10.43	-2
26	75.29	-6	46.25	-6	25.34	+1	61.63	-6	33.76	+7	10.74	-5
27	73.86	-20	46.36	-5	25.28	-1	61.92	-6	33.63	+2	11.05	-6
28	72.42	-31	46.47	-3	25.22	-2	62.21	-7	33.49	-4	11.36	-7
29	70.96	-38	46.58	-1	25.16	-3	62.49	-6	33.33	-8	11.66	-7
30	69.50	-39	46.68	+2	25.10	-4	62.78	-4	33.16	-12	11.96	-6
Okt. 1	68.02	-35	46.77	+4	25.04	-4	63.06	-2	32.99	-14	12.27	-3
2	66.54	-25	46.86	+5	24.97	-4	63.33	0	32.80	-14	12.57	-1
3	65.05	-12	46.94	+6	24.90	-3	63.61	+3	32.60	-11	12.87	+2
4	63.55	+3	47.02	+5	24.83	-1	63.88	+4	32.39	-6	13.17	+3
5	62.04	+15	47.09	+3	24.76	+1	64.15	+4	32.17	+1	13.47	+4
6	60.53	+23	47.15	0	24.68	+3	64.42	+3	31.94	+7	13.76	+3
7	59.01	+23	47.21	-4	24.60	+3	64.68	0	31.70	+12	14.06	+1
8	57.48	+15	47.26	-7	24.52	+3	64.94	-3	31.45	+14	14.35	-2
9	55.95	+2	47.31	-8	24.43	+2	65.20	-6	31.19	+12	14.63	-5
10	54.42	-13	47.35	-8	24.34	+1	65.45	-7	30.92	+7	14.91	-7
11	52.88	-25	47.38	-5	24.25	-1	65.70	-7	30.64	+1	15.19	-7
12	51.34	-31	47.41	-1	24.16	-3	65.95	-5	30.35	-6	15.46	-6
13	49.80	-28	47.43	+3	24.07	-3	66.19	-2	30.05	-11	15.74	-3
14	48.25	-17	47.44	+6	23.98	-3	66.43	+2	29.74	-13	16.01	+1
15	46.71	+1	47.45	+8	23.88	-2	66.67	+6	29.42	-12	16.27	+5
16	45.16	+19	47.45	+9	23.78	0	66.90	+9	29.09	-8	16.54	+9
17	43.61	+35	47.45	+7	23.68	+2	67.13	+10	28.75	-2	16.80	+10
18	42.06	+45	47.44	+5	23.58	+3	67.35	+9	28.40	+5	17.06	+10
19	40.52	+48	47.42	+1	23.47	+4	67.57	+7	28.04	+10	17.31	+8
20	38.97	+43	47.40	-2	23.36	+4	67.79	+4	27.68	+13	17.56	+5
21	37.43	+31	47.37	-4	23.25	+4	68.00	+1	27.31	+14	17.81	+2
22	35.89	+17	47.34	-6	23.14	+3	68.20	-2	26.92	+12	18.05	-1
23	34.35	+1	47.30	-6	23.03	+2	68.41	-4	26.53	+9	18.29	-4

sec  $\delta$ , tg  $\delta$

89° 12' 40" | 72.631 | -72.624  
50 | 72.887 | -72.880

81° 46' 60" | 6.997 | -6.925  
70 | 6.999 | -6.928

87° 54' 10" | 27.326 | -27.308  
20 | 27.362 | -27.344

Tag	Octantis 4 G. 6 <sup>m</sup>				ζ Octantis 6 <sup>m</sup> —5 <sup>m</sup>				ι Octantis 6 <sup>m</sup> —5 <sup>m</sup>			
	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.
1923	1 <sup>h</sup> 41 <sup>m</sup>	in	-85° 9'	in	9 <sup>h</sup> 8 <sup>m</sup>	in	-85° 21'	in	12 <sup>h</sup> 46 <sup>m</sup>	in	-84° 42'	in
		0.01		0.01		0.01		0.01		0.01		0.01
Okt. 23	47.11	+ 4	25.62	0	5.29	- I	21.41	+ 6	40.26	- 4	23.96	+ 3
24	47.08	+ 3	25.95	- 3	5.56	+ I	21.34	+ 6	40.35	- 3	23.67	+ 5
25	47.05	+ 2	26.27	- 6	5.82	+ 3	21.28	+ 5	40.45	- 2	23.38	+ 7
26	47.01	0	26.59	- 7	6.09	+ 4	21.22	+ 3	40.56	0	23.10	+ 7
27	46.97	- 2	26.91	- 8	6.36	+ 5	21.17	+ 1	40.67	+ 2	22.82	+ 7
28	46.92	- 4	27.23	- 7	6.63	+ 6	21.13	- 2	40.78	+ 4	22.54	+ 5
29	46.87	- 5	27.55	- 5	6.89	+ 5	21.09	- 4	40.89	+ 5	22.27	+ 3
30	46.81	- 5	27.86	- 3	7.16	+ 3	21.06	- 5	41.01	+ 5	22.00	0
31	46.74	- 4	28.18	0	7.43	+ 1	21.04	- 5	41.14	+ 3	21.73	- 2
Nov. 1	46.67	- 2	28.49	+ 3	7.70	- I	21.03	- 3	41.27	+ 1	21.46	- 4
2	46.60	+ 1	28.80	+ 4	7.97	- 3	21.02	- 1	41.40	- 1	21.20	- 4
3	46.52	+ 3	29.11	+ 5	8.24	- 4	21.01	+ 3	41.53	- 4	20.94	- 3
4	46.44	+ 5	29.42	+ 3	8.51	- 4	21.02	+ 6	41.67	- 6	20.69	0
5	46.35	+ 6	29.72	0	8.78	- 3	21.03	+ 8	41.82	- 7	20.44	+ 3
6	46.26	+ 6	30.02	- 3	9.05	- 1	21.05	+ 9	41.97	- 6	20.19	+ 6
7	46.16	+ 4	30.32	- 5	9.32	+ 2	21.07	+ 7	42.12	- 4	19.95	+ 7
8	46.06	+ 1	30.62	- 7	9.59	+ 4	21.10	+ 4	42.28	0	19.72	+ 7
9	45.96	- 2	30.91	- 7	9.86	+ 5	21.14	0	42.44	+ 3	19.49	+ 5
10	45.85	- 5	31.20	- 4	10.13	+ 4	21.18	- 5	42.60	+ 5	19.26	+ 1
11	45.74	- 6	31.49	- 1	10.40	+ 3	21.23	- 8	42.76	+ 6	19.03	- 3
12	45.62	- 6	31.78	+ 3	10.67	+ 1	21.29	- 10	42.93	+ 6	18.81	- 6
13	45.50	- 4	32.06	+ 7	10.94	- 2	21.35	- 9	43.10	+ 5	18.60	- 9
14	45.37	- 2	32.34	+ 9	11.21	- 4	21.42	- 7	43.28	+ 3	18.39	- 10
15	45.24	0	32.62	+ 10	11.48	- 6	21.50	- 5	43.46	0	18.18	- 10
16	45.11	+ 2	32.89	+ 9	11.74	- 6	21.59	- 1	43.65	- 2	17.98	- 8
17	44.97	+ 4	33.16	+ 7	12.01	- 6	21.68	+ 2	43.84	- 4	17.79	- 5
18	44.82	+ 4	33.43	+ 4	12.27	- 4	21.77	+ 4	44.03	- 4	17.60	- 2
19	44.67	+ 4	33.69	+ 1	12.53	- 2	21.88	+ 5	44.22	- 4	17.41	+ 2
20	44.52	+ 4	33.95	- 2	12.79	0	21.99	+ 6	44.42	- 4	17.23	+ 4
21	44.37	+ 2	34.20	- 4	13.05	+ 2	22.10	+ 5	44.62	- 2	17.06	+ 6
22	44.21	+ 1	34.45	- 6	13.31	+ 4	22.22	+ 3	44.82	0	16.89	+ 7
23	44.04	- 1	34.70	- 7	13.57	+ 5	22.35	+ 1	45.02	+ 2	16.72	+ 6
24	43.87	- 3	34.95	- 7	13.82	+ 5	22.48	- 1	45.23	+ 3	16.56	+ 5
25	43.70	- 4	35.19	- 6	14.08	+ 5	22.62	- 3	45.44	+ 4	16.41	+ 3
26	43.52	- 5	35.43	- 4	14.33	+ 4	22.77	- 5	45.65	+ 5	16.26	+ 1
27	43.34	- 4	35.66	- 1	14.58	+ 2	22.92	- 5	45.87	+ 4	16.12	- 2
28	43.16	- 3	35.89	+ 2	14.83	0	23.08	- 4	46.09	+ 2	15.98	- 4
29	42.98	- 1	36.11	+ 4	15.08	- 2	23.24	- 2	46.31	0	15.85	- 4
sec δ, lg δ	85° 9' 30"	11.848	- 11.806		85° 21' 20"	12.350	- 12.309		84° 42' 10"	10.832	- 10.785	
	40	11.855	- 11.813		30	12.357	- 12.317		20	10.837	- 10.791	

Tag	Octantis 20 G. 7 <sup>m</sup>				Octantis 26 G. 6 <sup>m</sup> - 7 <sup>m</sup>				Octantis 6 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	14 <sup>h</sup> 48 <sup>m</sup>	in 0.01	-87° 50'	in 0.01	16 <sup>h</sup> 31 <sup>m</sup>	in 0.01	-86° 13'	in 0.01	18 <sup>h</sup> 9 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
Okt. 23	43.87	-10	27.78	-3	53.43	-4	51.89	-5	54.19	-3	56.10	-6
24	43.79	-11	27.46	0	53.25	-6	51.63	-2	53.74	-8	55.94	-4
25	43.71	-10	27.15	+3	53.07	-7	51.37	+1	53.30	-11	55.77	-2
26	43.65	-8	26.84	+5	52.90	-7	51.11	+3	52.87	-12	55.60	+1
27	43.59	-4	26.52	+7	52.74	-6	50.84	+6	52.44	-12	55.43	+3
28	43.55	0	26.21	+8	52.58	-4	50.57	+7	52.02	-10	55.25	+6
29	43.53	+4	25.89	+7	52.43	-1	50.29	+8	51.60	-6	55.06	+7
30	43.51	+8	25.58	+6	52.29	+2	50.02	+7	51.19	-2	54.87	+7
31	43.51	+9	25.26	+3	52.15	+4	49.74	+5	50.79	+3	54.68	+6
Nov. 1	43.51	+8	24.94	0	52.01	+5	49.45	+2	50.39	+6	54.48	+3
2	43.53	+5	24.63	-3	51.88	+4	49.17	-2	50.00	+7	54.27	0
3	{ 43.55 43.59	{ -1 -7	{ 24.31 23.99	{ -5 -5	51.76	+2	48.88	-5	49.62	+6	54.06	-4
4	43.64	-13	23.68	-4	51.64	-1	48.59	-6	49.24	+2	53.85	-7
5	43.70	-16	23.36	-1	51.53	-5	48.30	-7	48.87	-3	53.63	-8
6	43.77	-16	23.05	+2	51.43	-8	48.00	-5	48.51	-9	53.40	-7
7	43.86	-12	22.73	+5	51.33	-9	47.70	-2	48.16	-12	53.17	-5
8	43.95	-5	22.42	+6	51.24	-9	47.40	+2	47.81	-13	52.94	-1
9	44.06	+3	22.11	+6	51.15	-6	47.10	+5	47.47	-11	52.70	+3
10	44.18	+11	21.80	+5	51.07	-1	46.80	+7	47.14	-5	52.46	+6
11	44.31	+16	21.49	+1	51.00	+4	46.49	+7	46.82	+1	52.21	+8
12	44.45	+18	21.18	-2	50.93	+8	46.19	+5	46.51	+9	51.96	+7
13	44.61	+17	20.87	-6	50.87	+11	45.88	+2	46.20	+15	51.71	+6
14	44.77	+12	20.57	-8	50.82	+12	45.58	-2	45.91	+18	51.45	+2
15	44.95	+7	20.26	-9	50.77	+11	45.27	-5	45.62	+18	51.19	-1
16	45.14	+1	19.96	-9	50.73	+8	44.96	-7	45.34	+16	50.92	-4
17	45.34	-5	19.66	-7	50.70	+4	44.65	-8	45.07	+11	50.65	-6
18	45.55	-8	19.36	-4	50.67	0	44.33	-7	44.81	+5	50.38	-7
19	45.77	-10	19.06	-1	50.65	-3	44.02	-6	44.56	0	50.10	-6
20	46.00	-10	18.77	+2	50.64	-5	43.70	-3	44.32	-5	49.82	-5
21	46.24	-9	18.48	+4	50.63	-7	43.39	-1	44.09	-9	49.54	-3
22	46.50	-6	18.19	+6	50.63	-7	43.08	+2	43.87	-11	49.25	0
23	46.76	-1	17.91	+7	50.64	-6	42.77	+5	43.66	-12	48.97	+2
24	47.03	+3	17.63	+7	50.65	-4	42.45	+6	43.45	-10	48.68	+5
25	47.32	+7	17.35	+6	50.67	-2	42.14	+7	43.26	-7	48.39	+6
26	47.62	+10	17.07	+4	50.70	+1	41.83	+7	43.07	-3	48.09	+7
27	47.92	+10	16.80	+1	50.73	+4	41.51	+6	42.90	+2	47.79	+6
28	48.24	+7	16.53	-2	50.77	+5	41.20	+3	42.74	+5	47.49	+4
29	48.56	+2	16.26	-4	{ 50.82 50.88	{ +5 +3	{ 40.89 40.57	{ +3 -4	42.59	+7	47.18	+1

sec δ, tg δ	87° 50' 20"	26.518	-26.500	86° 13' 40"	15.200	-15.167	87° 39' 50"	24.533	-24.513
	30	26.553	-26.534	50	15.211	-15.178	60	24.562	-24.542



Tag	$\alpha$ Octantis 6 <sup>m</sup>				$\beta$ Octantis 4 <sup>m</sup> .I				$\tau$ Octantis 6 <sup>m</sup>			
	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.	AR.	$\zeta$ Gl.	Dekl.	$\zeta$ Gl.
1923	19 <sup>h</sup> 36 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 38 <sup>m</sup>	in 0.01	-81° 47'	in 0.01	23 <sup>h</sup> 17 <sup>m</sup>	in 0.01	-87° 54'	in 0.01
Okt. 23	94.35	+ 1	47.30	- 6	23.03	+ 2	8.41	- 4	26.53	+ 9	18.29	- 4
24	92.82	-13	47.25	- 5	22.92	0	8.60	- 6	26.14	+ 4	18.52	- 6
25	91.30	-26	47.20	- 4	22.80	- 1	8.80	- 6	25.73	- 1	18.75	- 6
26	89.78	-34	47.14	- 2	22.68	- 3	8.99	- 6	25.31	- 6	18.97	- 6
27	88.27	-38	47.07	+ 1	22.56	- 4	9.17	- 5	24.89	-11	19.19	- 5
28	86.76	-36	47.00	+ 3	22.44	- 4	9.35	- 2	24.46	-14	19.41	- 4
29	85.27	-28	46.92	+ 5	22.31	- 4	9.52	0	24.02	-14	19.62	- 1
30	83.78	-17	46.83	+ 6	22.19	- 3	9.69	+ 2	23.57	-12	19.83	+ 1
31	82.29	- 3	46.74	+ 6	22.07	- 2	9.85	+ 4	23.11	- 8	20.03	+ 3
Nov. 1	80.82	+10	46.64	+ 4	21.94	0	10.00	+ 4	22.65	- 2	20.22	+ 4
2	79.35	+19	46.54	+ 1	21.81	+ 2	10.16	+ 3	22.19	+ 4	20.41	+ 4
3	77.90	+22	46.43	- 3	21.68	+ 3	10.30	+ 1	21.71	+10	20.60	+ 2
4	76.46	+17	46.31	- 6	21.55	+ 3	10.44	- 2	21.23	+13	20.77	- 1
5	75.03	+ 5	46.19	- 8	21.42	+ 3	10.58	- 5	20.74	+13	20.94	- 4
6	73.61	-11	46.06	- 8	21.29	+ 1	10.71	- 7	20.25	+ 9	21.11	- 7
7	72.20	-25	45.93	- 7	21.15	- 1	10.83	- 8	19.75	+ 3	21.28	- 8
8	70.81	-33	45.79	- 4	21.02	- 2	10.95	- 7	19.24	- 4	21.44	- 7
9	69.43	-34	45.64	0	20.88	- 3	11.06	- 4	18.73	-10	21.59	- 5
10	68.07	-25	45.49	+ 5	20.75	- 4	11.17	0	18.21	-13	21.74	- 1
11	66.72	- 9	45.33	+ 8	20.61	- 3	11.27	+ 5	17.69	-13	21.88	+ 4
12	65.39	+11	45.17	+ 9	20.47	- 1	11.36	+ 8	17.16	-10	22.01	+ 7
13	64.07	+29	45.00	+ 8	20.33	+ 1	11.45	+10	16.63	- 4	22.14	+10
14	62.77	+42	44.83	+ 6	20.20	+ 3	11.53	+10	16.09	+ 3	22.27	+10
15	61.49	+49	44.65	+ 3	20.06	+ 4	11.61	+ 9	15.55	+ 9	22.39	+ 9
16	60.22	+48	44.46	- 1	19.92	+ 5	11.68	+ 6	15.00	+12	22.50	+ 7
17	58.97	+38	44.27	- 3	19.78	+ 4	11.74	+ 3	14.45	+14	22.60	+ 4
18	57.74	+25	44.08	- 5	19.64	+ 4	11.80	0	13.89	+13	22.70	+ 1
19	56.54	+ 9	43.88	- 6	19.50	+ 2	11.85	- 3	13.34	+10	22.79	- 2
20	55.35	- 6	43.67	- 6	19.36	+ 1	11.89	- 5	12.78	+ 6	22.88	- 4
21	54.18	-19	43.46	- 4	19.22	- 1	11.93	- 6	12.21	+ 1	22.96	- 6
22	53.03	-29	43.24	- 2	19.08	- 2	11.97	- 6	11.65	- 4	23.03	- 6
23	51.91	-34	43.02	0	18.94	- 3	11.99	- 5	11.08	- 9	23.10	- 5
24	50.80	-35	42.79	+ 3	18.79	- 4	12.02	- 3	10.51	-12	23.16	- 4
25	49.72	-29	42.56	+ 5	18.65	- 4	12.03	- 1	9.94	-14	23.22	- 2
26	48.66	-20	42.33	+ 6	18.51	- 3	12.04	+ 2	9.36	-13	23.27	+ 1
27	47.62	- 7	42.09	+ 6	18.37	- 2	12.04	+ 4	8.78	-10	23.31	+ 3
28	46.60	+ 7	41.84	+ 5	18.23	0	12.03	+ 5	8.20	- 5	23.35	+ 4
29	45.61	+18	41.59	+ 2	18.08	+ 1	12.02	+ 4	7.62	+ 2	23.38	+ 4
sec $\delta$ , tg $\delta$	89° 12' 40"	72.631	-72.624		81° 47' 10"	6.999	-6.928		87° 54' 20"	27.362	-27.344	
	50	72.887	-72.880		20	7.002	-6.930		30	27.398	-27.380	

Tag	Octantis 4 G. 6 <sup>m</sup>				ζ Octantis 6 <sup>m</sup> - 5 <sup>m</sup>				ι Octantis 6 <sup>m</sup> - 5 <sup>m</sup>			
	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.
1923	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 9'	in 0.01	9 <sup>h</sup> 8 <sup>m</sup>	in 0.01	-85° 21'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	-84° 42'	in 0.01
Nov. 29	42.98	- 1	36.11	+ 4	15.08	- 2	23.24	- 2	46.31	0	15.85	- 4
30	42.79	+ 2	36.32	+ 5	15.32	- 4	23.41	+ 1	46.53	- 3	15.73	- 3
Dez. 1	42.60	+ 5	36.53	+ 4	15.56	- 4	23.59	+ 5	46.76	- 5	15.61	- 1
2	42.40	+ 6	36.74	+ 1	15.80	- 3	23.77	+ 8	46.98	- 7	15.50	+ 2
3	42.20	+ 6	36.94	- 2	16.04	- 2	23.96	+ 9	47.21	- 6	15.39	+ 5
4	42.00	+ 5	37.14	- 5	16.27	+ 1	24.15	+ 8	47.44	- 5	15.29	+ 7
5	41.79	+ 2	37.33	- 7	16.50	+ 3	24.35	+ 6	47.67	- 2	15.19	+ 8
6	41.58	- 1	37.51	- 8	16.73	+ 5	24.56	+ 2	47.90	+ 1	15.10	+ 7
7	41.37	- 4	37.69	- 6	16.95	+ 5	24.77	- 2	48.14	+ 4	15.02	+ 4
8	41.16	- 5	37.87	- 3	17.17	+ 4	24.98	- 6	48.38	+ 6	14.95	0
9	40.94	- 6	38.04	+ 1	17.39	+ 2	25.20	- 9	48.62	+ 6	14.88	- 4
10	40.72	- 5	38.20	+ 5	17.61	- 1	25.43	- 9	48.86	+ 6	14.82	- 8
11	40.50	- 4	38.36	+ 8	17.82	- 3	25.66	- 8	49.10	+ 4	14.76	- 10
12	40.27	- 1	38.51	+ 10	18.03	- 5	25.90	- 6	49.34	+ 1	14.71	- 10
13	40.04	+ 1	38.66	+ 10	18.23	- 6	26.14	- 3	49.59	- 1	14.66	- 8
14	39.81	+ 3	38.80	+ 8	18.43	- 6	26.39	+ 1	49.84	- 3	14.62	- 6
15	39.58	+ 4	38.94	+ 6	18.63	- 5	26.64	+ 3	50.09	- 4	14.59	- 3
16	39.35	+ 5	39.07	+ 3	18.82	- 3	26.90	+ 5	50.34	- 5	14.57	0
17	39.11	+ 4	39.19	0	19.01	- 1	27.16	+ 5	50.59	- 4	14.55	+ 3
18	38.87	+ 3	39.31	- 3	19.20	+ 1	27.43	+ 5	50.83	- 3	14.54	+ 5
19	38.63	+ 1	39.43	- 5	19.38	+ 3	27.70	+ 4	51.08	- 1	14.53	+ 6
20	38.39	- 1	39.53	- 7	19.56	+ 4	27.97	+ 2	51.34	+ 1	14.53	+ 6
21	38.14	- 3	39.63	- 7	19.73	+ 5	28.25	0	51.59	+ 3	14.53	+ 6
22	37.90	- 4	39.73	- 6	19.90	+ 5	28.53	- 3	51.84	+ 4	14.54	+ 4
23	37.65	- 5	39.82	- 4	20.07	+ 4	28.82	- 5	52.10	+ 5	14.56	+ 1
24	37.40	- 5	39.90	- 1	20.24	+ 2	29.11	- 6	52.35	+ 5	14.59	- 1
25	37.15	- 4	39.98	+ 1	20.40	0	29.41	- 5	52.61	+ 3	14.62	- 4
26	36.90	- 2	40.05	+ 4	20.56	- 2	29.71	- 3	52.87	+ 1	14.66	- 5
27	36.64	+ 1	40.12	+ 5	20.71	- 4	30.01	0	53.12	- 2	14.70	- 4
28	36.38	+ 3	40.18	+ 5	20.85	- 5	30.32	+ 3	53.38	- 4	14.75	- 3
29	36.13	+ 6	40.23	+ 3	20.99	- 4	30.63	+ 6	53.63	- 6	14.81	0
30	35.87	+ 6	40.27	0	21.13	- 2	30.95	+ 9	53.88	- 7	14.87	+ 4
31	35.61	+ 6	40.31	- 4	21.27	0	31.27	+ 9	54.14	- 6	14.94	+ 7
32	35.35	+ 3	40.34	- 7	21.40	+ 3	31.59	+ 7	54.39	- 3	15.02	+ 8
sec δ, tg δ	85° 9' 30"	11.848	- 11.806		85° 21' 20"	12.350	- 12.309		84° 42' 10"	10.832	- 10.785	
	40	11.855	- 11.813		30	12.357	- 12.317		20	10.837	- 10.791	



Tag	Octantis 20 G. 7 <sup>m</sup>				Octantis 26 G. 6 <sup>m</sup> - 7 <sup>m</sup>				χ Octantis 6 <sup>m</sup>			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1923	14 <sup>h</sup> 48 <sup>m</sup>	in 0.01	-87° 50'	in 0.01	16 <sup>h</sup> 31 <sup>m</sup>	in 0.01	86° 13'	in 0.01	18 <sup>h</sup> 9 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
Nov. 29	48.56	+ 2	16.26	- 4	50.89 50.88	+ 5 + 3	40.89 40.57	- 4	42.59	+ 7	47.18	+ 1
30	48.90	- 4	16.00	- 5	50.94	0	40.26	- 6	42.44	+ 7	46.88	- 2
Dez. 1	49.24	- 11	15.74	- 4	51.00	- 4	39.95	- 7	42.31	+ 4	46.57	- 6
2	49.60	- 15	15.49	- 2	51.08	- 8	39.64	- 6	42.19	- 1	46.26	- 8
3	49.96	- 17	15.24	+ 1	51.16	- 10	39.33	- 3	42.08	- 7	45.95	- 8
4	50.34	- 15	14.99	+ 4	51.25	- 10	39.03	0	41.97	- 12	45.63	- 6
5	50.72	- 9	14.74	+ 7	51.34	- 8	38.72	+ 4	41.88	- 15	45.32	- 3
6	51.11	- 2	14.50	+ 7	51.44	- 4	38.41	+ 6	41.80	- 14	45.00	+ 1
7	51.52	+ 6	14.27	+ 6	51.54	+ 1	38.11	+ 7	41.73	- 10	44.68	+ 5
8	51.93	+ 13	14.03	+ 3	51.66	+ 6	37.81	+ 6	41.67	- 3	44.36	+ 7
9	52.35	+ 17	13.81	0	51.78	+ 10	37.51	+ 4	41.62	+ 5	44.05	+ 8
10	52.78	+ 16	13.59	- 4	51.90	+ 11	37.21	0	41.58	+ 12	43.73	+ 7
11	53.21	+ 14	13.37	- 7	52.03	+ 11	36.91	- 4	41.56	+ 16	43.40	+ 4
12	53.66	+ 9	13.15	- 9	52.17	+ 9	36.61	- 6	41.54	+ 18	43.08	0
13	54.11	+ 3	12.95	- 9	52.32	+ 6	36.32	- 8	41.53	+ 17	42.76	- 3
14	54.57	- 3	12.74	- 8	52.47	+ 2	36.03	- 8	41.54	+ 13	42.43	- 5
15	55.04	- 7	12.54	- 6	52.63	- 1	35.74	- 7	41.55	+ 8	42.11	- 7
16	55.52	- 10	12.35	- 3	52.79	- 4	35.45	- 5	41.58	+ 3	41.78	- 7
17	56.00	- 10	12.16	0	52.96	- 6	35.17	- 2	41.62	- 3	41.45	- 6
18	56.49	- 9	11.98	+ 3	53.14	- 6	34.89	+ 1	41.67	- 7	41.12	- 4
19	56.99	- 6	11.80	+ 5	53.32	- 6	34.61	+ 4	41.73	- 10	40.79	- 1
20	57.50	- 2	11.63	+ 7	53.51	- 5	34.34	+ 6	41.80	- 11	40.47	+ 1
21	58.01	+ 2	11.46	+ 7	53.71	- 2	34.06	+ 7	41.88	- 10	40.14	+ 4
22	58.53	+ 6	11.29	+ 6	53.91	+ 1	33.79	+ 7	41.97	- 8	39.82	+ 6
23	59.06	+ 9	11.13	+ 4	54.11	+ 3	33.53	+ 6	42.06	- 4	39.49	+ 7
24	59.60	+ 10	10.97	+ 2	54.32	+ 5	33.26	+ 4	42.17 42.29	+ 1 + 5	39.17 38.85	+ 7 + 5
25	60.14	+ 9	10.82	- 1	54.54	+ 6	33.00	+ 1	42.42	+ 8	38.53	+ 2
26	60.69	+ 5	10.68	- 4	54.76	+ 5	32.74	- 3	42.56	+ 8	38.21	- 1
27	61.24	- 1	10.54	- 6	54.99	+ 2	32.49	- 6	42.72	+ 6	37.89	- 5
28	61.80	- 8	10.41	- 5	55.22	- 2	32.24	- 7	42.88	+ 2	37.56	- 7
29	62.37	- 13	10.28	- 4	55.46	- 6	32.00	- 7	43.05	- 4	37.24	- 8
30	62.95	- 16	10.16	- 1	55.71	- 9	31.76	- 4	43.24	- 10	36.93	- 7
31	63.53	- 16	10.04	+ 3	55.96	- 10	31.52	- 1	43.43	- 14	36.61	- 4
32	64.11	- 12	9.93	+ 6	56.21	- 9	31.28	+ 3	43.63	- 15	36.29	0
sec δ, tg δ	87° 50' 10"	26.484	-26.466		86° 13' 30"	15.189	-15.156		87° 39' 30"	24.475	-24.454	
	20	26.518	-26.500		40	15.200	-15.167		40	24.504	-24.483	



# Obere Kulmination Greenwich

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Tag	α Octantis 6 <sup>m</sup>				β Octantis 4 <sup>m</sup> .I				γ Octantis 6 <sup>m</sup>			
	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.	AR.	Gl.	Dekl.	Gl.
1923	19 <sup>h</sup> 36 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 38 <sup>m</sup>	in 0.01	-81° 47'	in 0.01	23 <sup>h</sup> 16 <sup>m</sup>	in 0.01	-87° 54'	in 0.01
Nov. 29	45.61	+18	41.59	+2	18.08	+1	12.02	+4	67.62	+2	23.38	+4
30	44.64	+22	41.34	-1	17.94	+3	12.00	+2	67.04	+8	23.40	+3
Dez. 1	43.70	+20	41.08	-5	17.80	+3	11.97	-1	66.45	+12	23.42	0
2	42.78	+9	40.82	-8	17.66	+3	11.94	-4	65.87	+13	23.43	-3
3	41.89	-6	40.55	-9	17.52	+2	11.90	-7	65.28	+11	23.43	-6
4	41.02	-21	40.28	-8	17.38	0	11.86	-9	64.69	+6	23.43	-8
5	40.18	-34	40.01	-5	17.24	-2	11.81	-9	64.10	-1	23.42	-9
6	39.36	-37	39.73	-1	17.10	-3	11.76	-6	63.52	-8	23.40	-7
7	38.57	-34	39.45	+2	16.96	-4	11.70	-3	62.93	-12	23.38	-4
8	37.80	-20	39.17	+6	16.82	-3	11.63	+2	62.35	-14	23.35	+1
9	37.07	-1	38.88	+8	16.68	-2	11.55	+6	61.76	-12	23.31	+5
10	36.36	+19	38.59	+9	16.55	0	11.47	+9	61.18	-7	23.27	+8
11	35.68	+37	38.29	+7	16.41	+2	11.38	+10	60.60	0	23.22	+10
12	35.03	+47	37.99	+4	16.28	+4	11.29	+9	60.01	+6	23.17	+10
13	34.40	+49	37.69	+1	16.14	+5	11.19	+7	59.43	+11	23.11	+8
14	33.81	+43	37.38	-2	16.01	+5	11.09	+4	58.86	+14	23.04	+5
15	33.24	+32	37.08	-5	15.88	+4	10.98	+1	58.28	+14	22.96	+2
16	32.70	+17	36.77	-6	15.75	+3	10.86	-2	57.70	+12	22.88	-1
17	32.19	+1	36.46	-6	15.62	+2	10.74	-4	57.13	+8	22.79	-4
18	31.71	-13	36.14	-5	15.50	0	10.61	-5	56.57	+3	22.70	-5
19	31.26	-25	35.82	-3	15.37	-2	10.47	-6	56.00	-2	22.60	-6
20	30.84	-32	35.50	-1	15.24	-3	10.33	-5	55.44	-7	22.49	-6
21	30.45	-34	35.18	+2	15.12	-4	10.18	-3	54.88	-11	22.37	-4
22	30.09	-30	34.86	+4	14.99	-4	10.03	-1	54.32	-13	22.25	-2
23	29.75	-22	34.53	+6	14.87	-3	9.87	+1	53.77	-14	22.13	0
24	29.45	-9	34.20	+6	14.75	-2	9.71	+3	53.21	-11	22.00	+2
25	29.17	+5	33.87	+6	14.63	-1	9.54	+5	52.66	-6	21.86	+4
26	28.93	+16	33.54	+4	14.51	+1	9.36	+5	52.11	-1	21.72	+5
27	28.72	+24	33.21	0	14.39	+2	9.18	+4	51.57	+6	21.57	+4
28	28.54	+25	32.87	-3	14.28	+3	8.99	+1	51.04	+11	21.42	+2
29	28.38	+16	32.53	-6	14.16	+3	8.80	-2	50.51	+13	21.26	-1
30	28.26	+3	32.19	-8	14.05	+2	8.60	-6	49.98	+13	21.09	-5
31	28.17	-15	31.85	-9	13.94	+1	8.40	-8	49.46	+8	20.91	-8
32	28.11	-30	31.51	-7	13.83	-1	8.19	-9	48.94	+2	20.73	-9
sec δ, tg δ	89° 12' 30"	72.376	-72.369		81° 47' 10"	6.999	-6.928		87° 54' 20"	27.362	-27.344	
	40	72.631	-72.624		20	7.002	-6.930		30	27.398	-27.380	

## zur Reduktion auf den scheinbaren Ort

$$A = t - (0.34215 + 0.00031 T) \sin \Omega + 0.00415 \sin 2 \Omega - 0.02526 \sin 2 L_{\odot} \\ + 0.00251 \sin M_{\odot} - 0.00099 \sin (2 L_{\odot} + M_{\odot}) + 0.00042 \sin (2 L_{\odot} - M_{\odot}) \\ + 0.00025 \sin (2 L_{\odot} - \Omega)$$

$$A' = -0.00405 \sin 2 L_{\zeta} + 0.00135 \sin M_{\zeta} - 0.00068 \sin (2 L_{\zeta} - \Omega) \\ - 0.00052 \sin (2 L_{\zeta} + M_{\zeta}) + 0.00030 \sin (2 L_{\zeta} - 2 L_{\odot} - M_{\zeta}) \\ + 0.00023 \sin (2 L_{\zeta} - M_{\zeta}) + 0.00012 \sin (2 L_{\zeta} - 2 L_{\odot})$$

$$B = -(9''.210 + 0''.001 T) \cos \Omega + 0''.090 \cos 2 \Omega - 0''.551 \cos 2 L_{\odot} \\ - 0''.022 \cos (2 L_{\odot} + M_{\odot}) + 0''.009 \cos (2 L_{\odot} - M_{\odot}) \\ + 0''.007 \cos (2 L_{\odot} - \Omega)$$

$$B' = -0''.089 \cos 2 L_{\zeta} - 0''.018 \cos (2 L_{\zeta} - \Omega) - 0''.011 \cos (2 L_{\zeta} + M_{\zeta}) \\ + 0''.005 \cos (2 L_{\zeta} - M_{\zeta})$$

$$C = -20''.47 \cos \odot \cos \varepsilon$$

$$D = -20''.47 \sin \odot$$

$$E = -(0''.0029 - 0''.0004 T) \sin \Omega$$

$T$  Zeit seit 1900.0 in Einheiten von 100 tropischen Jahren

$t$  Zeit seit Beginn des annus fictus, in Bruchteilen des tropischen Jahres

$$a = m + \frac{1}{15} n \sin \alpha \operatorname{tg} \delta$$

$$b = \frac{1}{15} \cos \alpha \operatorname{tg} \delta$$

$$c = \frac{1}{15} \cos \alpha \sec \delta$$

$$d = \frac{1}{15} \sin \alpha \sec \delta$$

$$a' = n \cos \alpha$$

$$b' = -\sin \alpha$$

$$c' = \operatorname{tg} \varepsilon \cos \delta - \sin \alpha \sin \delta$$

$$d' = \cos \alpha \sin \delta$$

$$\alpha_{\text{app.}} = \alpha_{1923.0} + t \mu_{\alpha} + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$

$$\delta_{\text{app.}} = \delta_{1923.0} + t \mu_{\delta} + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$$

$\mu_{\alpha}$ ,  $\mu_{\delta}$  jährliche Eigenbewegung in Rektaszension, bez. Deklination

Setzt man:

$$\begin{array}{l|l|l} f' = mA + E & f' = mA' & i = C \operatorname{tg} \varepsilon \\ g \sin G = B & g' \sin G' = B' & h \sin H = C \\ g \cos G = nA & g' \cos G' = nA' & h \cos H = D, \end{array}$$

so wird:

$$\alpha_{\text{app.}} = \alpha_{1923.0} + t \mu_{\alpha} + f' + \frac{1}{15} g \sin (G + \alpha) \operatorname{tg} \delta + \frac{1}{15} h \sin (H + \alpha) \sec \delta \\ + [f' + \frac{1}{15} g' \sin (G' + \alpha) \operatorname{tg} \delta]$$

$$\delta_{\text{app.}} = \delta_{1923.0} + t \mu_{\delta} + g \cos (G + \alpha) + h \cos (H + \alpha) \sin \delta + i \cos \delta \\ + [g' \cos (G' + \alpha)]$$

# Reduktionsgrößen 1923

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für 12<sup>h</sup> Sternzeit Greenwich

Mittlere Zeit Greenwich	<i>t</i>	log <i>A</i>	log <i>B</i>	log <i>C</i>	log <i>D</i>	<i>E</i>	
1923							
Jan.	0.7	-0.0004	8.42144 <sub>n</sub>	0.99078	0.50406 <sub>n</sub>	1.30475	-0.0003
	10.7	+0.0269	7.78319	0.98597	0.80665 <sub>n</sub>	1.28425	3
	20.7	0.0542	8.56170	0.97859	0.97400 <sub>n</sub>	1.24817	3
	30.6	0.0815	8.80632	0.96942	1.08393 <sub>n</sub>	1.19382	4
Febr.	9.6	0.1088	8.94645	0.95947	1.16014 <sub>n</sub>	1.11597	4
	19.6	0.1361	9.03989	0.94998	1.21304 <sub>n</sub>	1.00445	-0.0004
März	1.6	0.1634	9.10762	0.94201	1.24790 <sub>n</sub>	0.83556	4
	11.5	0.1907	9.16029	0.93661	1.26759 <sub>n</sub>	0.53173	4
	21.5	0.2180	9.20452	0.93430	1.27368 <sub>n</sub>	9.11059 <sub>n</sub>	5
	31.5	0.2453	9.24477	0.93531	1.26670 <sub>n</sub>	0.56050 <sub>n</sub>	5
April	10.4	0.2726	9.28400	0.93932	1.24652 <sub>n</sub>	0.84609 <sub>n</sub>	-0.0005
	20.4	0.2999	9.32385	0.94567	1.21205 <sub>n</sub>	1.00745 <sub>n</sub>	5
	30.4	0.3272	9.36507	0.95337	1.16104 <sub>n</sub>	1.11471 <sub>n</sub>	5
Mai	10.4	0.3545	9.40746	0.96137	1.08920 <sub>n</sub>	1.18997 <sub>n</sub>	6
	20.3	0.3818	9.45035	0.96862	0.98829 <sub>n</sub>	1.24316 <sub>n</sub>	6
	30.3	0.4091	9.49275	0.97451	0.84055 <sub>n</sub>	1.27935 <sub>n</sub>	-0.0006
Juni	9.3	0.4364	9.53369	0.97813	0.59506 <sub>n</sub>	1.30135 <sub>n</sub>	6
	19.3	0.4637	9.57236	0.97928	9.92583 <sub>n</sub>	1.31067 <sub>n</sub>	6
	29.2	0.4910	9.60809	0.97749	0.35583	1.30792 <sub>n</sub>	7
Juli	9.2	0.5183	9.64041	0.97304	0.72567	1.29296 <sub>n</sub>	7
	19.2	0.5456	9.66916	0.96619	0.91482	1.26493 <sub>n</sub>	-0.0007
	29.1	0.5729	9.69424	0.95751	1.03747	1.22191 <sub>n</sub>	7
Aug.	8.1	0.6002	9.71584	0.94753	1.12339	1.16035 <sub>n</sub>	8
	18.1	0.6276	9.73423	0.93727	1.18492	1.07394 <sub>n</sub>	8
	28.1	0.6549	9.74987	0.92768	1.22814	0.94949 <sub>n</sub>	8
Sept.	7.0	0.6822	9.76333	0.91986	1.25624	0.75465 <sub>n</sub>	-0.0009
	17.0	0.7095	9.77529	0.91461	1.27096	0.35927 <sub>n</sub>	9
	27.0	0.7368	9.78648	0.91249	1.27293	0.07664	9
Okt.	7.0	0.7641	9.79766	0.91387	1.26212	0.66829	10
	16.9	0.7914	9.80946	0.91829	1.23759	0.90347	10
	26.9	0.8187	9.82242	0.92490	1.19750	1.04670	-0.0010
Nov.	5.9	0.8460	9.83682	0.93303	1.13827	1.14435	10
	15.8	0.8733	9.85270	0.94111	1.05350	1.21325	10
	25.8	0.9006	9.86984	0.94812	0.93018	1.26112	11
Dez.	5.8	0.9279	9.88781	0.95308	0.73600	1.29205	11
	15.8	0.9552	9.90605	0.95506	0.34163	1.30814	-0.0011
	25.7	0.9825	9.92397	0.95386	0.05192 <sub>n</sub>	1.31033	11
	35.7	1.0098	9.94098	0.94915	0.64523 <sub>n</sub>	1.29870	11



Mittl. Zeit Greenwich	<i>t</i>	<i>f</i>	log <i>g</i>	<i>G</i>	log <i>h</i>	<i>H</i>	log <i>i</i>	<i>i</i>
1923								
Jan. 0.5	-0.0011	-0.084	0.9915	6 <sup>h</sup> 12.7 <sup>m</sup>	1.3102	23 24.9	0.1313 <sub>n</sub>	-1.353
1.5	+0.0017	0.073	0.9910	6 11.2	1.3100	23 21.1	0.1749 <sub>n</sub>	1.496
2.5	0.0044	0.063	0.9905	6 9.6	1.3097	23 17.4	0.2143 <sub>n</sub>	1.638
3.5	0.0072	0.053	0.9900	6 8.1	1.3095	23 13.6	0.2502 <sub>n</sub>	1.779
4.5	0.0099	0.043	0.9894	6 6.6	1.3092	23 9.8	0.2833 <sub>n</sub>	1.920
5.5	0.0126	0.033	0.9889	6 5.0	1.3089	23 6.0	0.3139 <sub>n</sub>	2.060
6.5	0.0154	-0.023	0.9884	6 3.5	1.3086	23 2.3	0.3424 <sub>n</sub>	-2.200
7.5	0.0181	0.013	0.9878	6 2.0	1.3083	22 58.5	0.3692 <sub>n</sub>	2.340
8.5	0.0209	-0.003	0.9873	6 0.5	1.3079	22 54.7	0.3941 <sub>n</sub>	2.478
9.5	0.0236	+0.007	0.9867	5 58.9	1.3075	22 50.9	0.4175 <sub>n</sub>	2.615
10.5	0.0263	0.016	0.9861	5 57.4	1.3071	22 47.1	0.4396 <sub>n</sub>	2.752
11.5	0.0291	0.026	0.9855	5 55.9	1.3067	22 43.2	0.4606 <sub>n</sub>	2.888
12.5	0.0318	+0.036	0.9849	5 54.4	1.3063	22 39.4	0.4804 <sub>n</sub>	-3.023
13.5	0.0345	0.045	0.9843	5 52.9	1.3059	22 35.6	0.4994 <sub>n</sub>	3.158
14.5	0.0373	0.055	0.9837	5 51.4	1.3054	22 31.8	0.5173 <sub>n</sub>	3.291
15.5	0.0400	0.064	0.9831	5 50.0	1.3050	22 27.9	0.5343 <sub>n</sub>	3.422
16.5	0.0428	0.074	0.9825	5 48.5	1.3045	22 24.1	0.5506 <sub>n</sub>	3.553
17.5	0.0455	0.083	0.9818	5 47.0	1.3040	22 20.2	0.5661 <sub>n</sub>	3.682
18.5	0.0482	+0.092	0.9812	5 45.6	1.3035	22 16.4	0.5810 <sub>n</sub>	-3.811
19.5	0.0510	0.101	0.9806	5 44.1	1.3029	22 12.5	0.5953 <sub>n</sub>	3.938
20.5	0.0537	0.110	0.9800	5 42.7	1.3024	22 8.6	0.6091 <sub>n</sub>	4.065
21.5	0.0564	0.119	0.9794	5 41.3	1.3018	22 4.7	0.6221 <sub>n</sub>	4.189
22.5	0.0592	0.128	0.9787	5 39.8	1.3012	22 0.8	0.6348 <sub>n</sub>	4.313
23.5	0.0619	0.137	0.9781	5 38.4	1.3007	21 56.9	0.6469 <sub>n</sub>	4.435
24.5	0.0647	+0.145	0.9774	5 37.0	1.3001	21 53.0	0.6585 <sub>n</sub>	-4.555
25.5	0.0674	0.154	0.9768	5 35.6	1.2995	21 49.1	0.6697 <sub>n</sub>	4.674
26.5	0.0701	0.162	0.9762	5 34.3	1.2989	21 45.1	0.6805 <sub>n</sub>	4.792
27.5	0.0729	0.171	0.9755	5 32.9	1.2983	21 41.2	0.6909 <sub>n</sub>	4.908
28.5	0.0756	0.179	0.9748	5 31.5	1.2976	21 37.2	0.7009 <sub>n</sub>	5.022
29.5	0.0783	0.187	0.9742	5 30.2	1.2970	21 33.2	0.7105 <sub>n</sub>	5.135
30.5	0.0811	+0.195	0.9736	5 28.8	1.2964	21 29.3	0.7198 <sub>n</sub>	-5.246
31.5	0.0838	0.203	0.9729	5 27.5	1.2957	21 25.3	0.7288 <sub>n</sub>	5.356
Febr. 1.5	0.0866	0.211	0.9723	5 26.2	1.2951	21 21.3	0.7375 <sub>n</sub>	5.464
2.5	0.0893	0.219	0.9717	5 24.9	1.2944	21 17.2	0.7459 <sub>n</sub>	5.570
3.5	0.0920	0.226	0.9711	5 23.6	1.2937	21 13.2	0.7539 <sub>n</sub>	5.674
4.5	0.0948	0.234	0.9705	5 22.3	1.2931	21 9.2	0.7617 <sub>n</sub>	5.777
5.5	0.0975	+0.242	0.9699	5 21.0	1.2924	21 5.1	0.7692 <sub>n</sub>	
6.5	0.1003	0.249	0.9693	5 19.8	1.2918	21 1.1	0.7764 <sub>n</sub>	
7.5	0.1030	0.256	0.9688	5 18.5	1.2911	20 57.0	0.7834 <sub>n</sub>	
8.5	0.1057	0.263	0.9682	5 17.3	1.2904	20 52.9	0.7902 <sub>n</sub>	
9.5	0.1085	0.270	0.9676	5 16.1	1.2898	20 48.8	0.7967 <sub>n</sub>	
10.5	0.1112	0.277	0.9670	5 14.9	1.2891	20 44.7	0.8029 <sub>n</sub>	

Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1923.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1923	in 0.001	in 0.01	<sup>h</sup>			in 0.01	23° 26'		in 0.01
Jan. 0.5	- 9	+ 8	9.1	-0.05	-1.31	-15	47.64	-9.79	- 6
1.5	- 5	8	7.7	+0.08	1.28	- 8	47.63	9.78	- 7
2.5	0	7	6.0	0.22	1.25	0	47.64	9.78	- 7
3.5	+ 5	6	4.0	0.36	1.23	+ 8	47.66	9.77	- 5
4.5	+ 8	6	1.7	0.50	1.20	+13	47.70	9.76	- 2
5.5	+ 9	6	23.2	0.64	1.17	+15	47.74	9.75	+ 1
6.5	+ 8	+ 7	21.2	+0.77	-1.15	+12	47.79	-9.73	+ 5
7.5	+ 4	7	19.3	0.91	1.13	+ 6	47.82	9.72	+ 7
8.5	- 1	8	17.6	1.05	1.10	- 2	47.84	9.71	+ 8
9.5	- 6	7	15.9	1.19	1.07	-10	47.84	9.70	+ 6
10.5	- 9	7	14.0	1.32	1.05	-15	47.82	9.69	+ 3
11.5	-10	6	11.8	1.46	1.03	-16	47.80	9.67	0
12.5	- 7	+ 6	9.4	+1.60	-1.01	-12	47.78	-9.66	- 4
13.5	- 3	7	7.1	1.74	0.99	- 5	47.76	9.64	- 7
14.5	+ 2	8	5.2	1.87	0.97	+ 4	47.77	9.62	- 7
15.5	+ 7	8	3.6	2.01	0.96	+12	47.79	9.61	- 7
16.5	+11	9	2.1	2.15	0.94	+18	47.83	9.59	- 5
17.5	+13	9	0.9	2.29	0.93	+21	47.87	9.57	- 2
18.5	+13	+ 8	23.4	+2.42	-0.92	+21	47.92	-9.56	+ 1
19.5	+10	8	21.9	2.56	0.91	+17	47.96	9.54	+ 4
20.5	+ 6	7	20.4	2.70	0.90	+11	47.99	9.52	+ 6
21.5	+ 2	7	18.8	2.84	0.89	+ 3	48.02	9.50	+ 6
22.5	- 3	6	16.9	2.97	0.88	- 5	48.03	9.48	+ 6
23.5	- 7	7	15.2	3.11	0.87	-12	48.04	9.47	+ 5
24.5	-10	+ 7	13.6	+3.25	-0.87	-17	48.04	-9.45	+ 3
25.5	-13	8	12.1	3.39	0.87	-20	48.03	9.43	0
26.5	-13	9	10.9	3.52	0.87	-21	48.02	9.41	- 2
27.5	-11	9	9.6	3.66	0.87	-18	48.02	9.38	- 5
28.5	- 7	8	8.3	3.80	0.87	-12	48.02	9.36	- 7
29.5	- 2	7	6.8	3.94	0.87	- 4	48.03	9.34	- 7
30.5	+ 3	+ 6	5.0	+4.08	-0.88	+ 4	48.06	-9.32	- 6
31.5	+ 7	6	2.6	4.21	0.89	+11	48.11	9.30	- 4
Febr. 1.5	+ 9	6	0.0	4.35	0.90	+14	48.16	9.28	0
2.5	+ 8	6	21.8	4.49	0.91	+14	48.22	9.26	+ 3
3.5	+ 6	7	19.9	4.63	0.92	+ 9	48.27	9.24	+ 6
4.5	+ 1	8	18.3	4.76	0.93	+ 2	48.30	9.22	+ 8
5.5	- 4	+ 7	16.7	+4.90	-0.95	- 6	48.31	-9.20	+ 7
6.5	- 7	7	15.0	5.04	0.96	-12	48.31	9.17	+ 5
7.5	- 9	6	12.7	5.18	0.98	-14	48.30	9.15	+ 1
8.5	- 8	6	10.0	5.31	1.00	-12	48.28	9.13	- 3
9.5	- 4	6	7.6	5.45	1.02	- 6	48.27	9.11	- 6
10.5	+ 1	7	5.6	5.59	1.05	+ 2	48.27	9.09	- 7

Mittl. Zeit Greenwich	$t$	$f$	$\log g$	$G$	$\log h$	$H$	$\log i$	
1923								
Febr.	10.5	0.1112	+0.277	0.9670	5 <sup>h</sup> 14.9 <sup>m</sup>	1.2891	20 <sup>h</sup> 44.7 <sup>m</sup>	0.8029 <sub>n</sub>
	11.5	0.1139	0.284	0.9665	5 13.7	1.2885	20 40.6	0.8090 <sub>n</sub>
	12.5	0.1167	0.291	0.9660	5 12.5	1.2878	20 36.5	0.8148 <sub>n</sub>
	13.5	0.1194	0.298	0.9655	5 11.4	1.2872	20 32.3	0.8204 <sub>n</sub>
	14.5	0.1222	0.304	0.9650	5 10.2	1.2865	20 28.2	0.8258 <sub>n</sub>
	15.5	0.1249	0.311	0.9645	5 9.1	1.2859	20 24.0	0.8310 <sub>n</sub>
	16.5	0.1276	+0.317	0.9641	5 8.0	1.2853	20 19.9	0.8360 <sub>n</sub>
	17.5	0.1304	0.324	0.9636	5 6.9	1.2847	20 15.7	0.8409 <sub>n</sub>
	18.5	0.1331	0.330	0.9632	5 5.8	1.2841	20 11.5	0.8455 <sub>n</sub>
	19.5	0.1358	0.336	0.9628	5 4.7	1.2835	20 7.3	0.8499 <sub>n</sub>
	20.5	0.1386	0.342	0.9625	5 3.6	1.2829	20 3.1	0.8542 <sub>n</sub>
	21.5	0.1413	0.348	0.9621	5 2.6	1.2823	19 58.9	0.8582 <sub>n</sub>
	22.5	0.1441	+0.354	0.9617	5 1.6	1.2817	19 54.7	0.8621 <sub>n</sub>
	23.5	0.1468	0.360	0.9614	5 0.5	1.2812	19 50.4	0.8659 <sub>n</sub>
	24.5	0.1495	0.365	0.9611	4 59.5	1.2807	19 46.2	0.8695 <sub>n</sub>
	25.5	0.1523	0.371	0.9608	4 58.5	1.2802	19 41.9	0.8729 <sub>n</sub>
	26.5	0.1550	0.377	0.9606	4 57.5	1.2797	19 37.7	0.8762 <sub>n</sub>
	27.5	0.1577	0.382	0.9604	4 56.5	1.2792	19 33.4	0.8793 <sub>n</sub>
	28.5	0.1605	+0.388	0.9602	4 55.6	1.2787	19 29.1	0.8822 <sub>n</sub>
März	1.5	0.1632	0.393	0.9600	4 54.6	1.2782	19 24.9	0.8850 <sub>n</sub>
	2.5	0.1660	0.398	0.9598	4 53.7	1.2778	19 20.6	0.8876 <sub>n</sub>
	3.5	0.1687	0.404	0.9597	4 52.8	1.2774	19 16.3	0.8901 <sub>n</sub>
	4.5	0.1714	0.409	0.9596	4 51.9	1.2770	19 12.0	0.8924 <sub>n</sub>
	5.5	0.1742	0.414	0.9595	4 51.0	1.2766	19 7.7	0.8946 <sub>n</sub>
	6.5	0.1769	+0.419	0.9595	4 50.1	1.2763	19 3.4	0.8966 <sub>n</sub>
	7.5	0.1797	0.424	0.9595	4 49.2	1.2759	18 59.1	0.8985 <sub>n</sub>
	8.5	0.1824	0.429	0.9595	4 48.3	1.2756	18 54.7	0.9003 <sub>n</sub>
	9.5	0.1851	0.434	0.9595	4 47.5	1.2753	18 50.4	0.9019 <sub>n</sub>
	10.5	0.1879	0.439	0.9596	4 46.6	1.2751	18 46.1	0.9034 <sub>n</sub>
	11.5	0.1906	0.444	0.9597	4 45.8	1.2748	18 41.8	0.9048 <sub>n</sub>
	12.5	0.1933	+0.449	0.9599	4 45.0	1.2746	18 37.4	0.9060 <sub>n</sub>
	13.5	0.1961	0.453	0.9600	4 44.2	1.2744	18 33.1	0.9071 <sub>n</sub>
	14.5	0.1988	0.458	0.9602	4 43.4	1.2742	18 28.8	0.9080 <sub>n</sub>
	15.5	0.2016	0.463	0.9605	4 42.6	1.2741	18 24.4	0.9088 <sub>n</sub>
	16.5	0.2043	0.468	0.9608	4 41.8	1.2739	18 20.1	0.9095 <sub>n</sub>
	17.5	0.2070	0.473	0.9611	4 41.1	1.2738	18 15.8	0.9101 <sub>n</sub>
	18.5	0.2098	+0.477	0.9614	4 40.3	1.2738	18 11.4	0.9105 <sub>n</sub>
	19.5	0.2125	0.482	0.9618	4 39.5	1.2737	18 7.1	0.9107 <sub>n</sub>
	20.5	0.2152	0.487	0.9622	4 38.8	1.2737	18 2.8	0.9109 <sub>n</sub>
	21.5	0.2180	0.492	0.9626	4 38.1	1.2737	17 58.4	0.9109 <sub>n</sub>
	22.5	0.2207	0.496	0.9631	4 37.3	1.2737	17 54.1	0.9108 <sub>n</sub>
	23.5	0.2235	0.501	0.9636	4 36.6	1.2737	17 49.8	0.9106 <sub>n</sub>



Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1923.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\epsilon$	$\Delta\epsilon'$
1923	in 0.001	in 0.01				in 0.01	23° 26'		in 0.01
Febr. 10.5	+ 1	+ 7	5.6	+ 5.59	-1.05	+ 2	48.27	-9.09	- 7
11.5	+ 6	8	4.0	5.73	1.07	+10	48.29	9.07	- 7
12.5	+11	9	2.6	5.86	1.10	+17	48.33	9.05	- 6
13.5	+13	9	1.2	6.00	1.13	+21	48.37	9.03	- 3
14.5	+13	9	23.9	6.14	1.16	+21	48.42	9.01	0
15.5	+11	8	22.4	6.28	1.19	+18	48.47	8.99	+ 3
16.5	+ 8	+ 7	21.1	+ 6.41	-1.22	+13	48.51	-8.97	+ 5
17.5	+ 3	7	19.3	6.55	1.26	+ 6	48.54	8.95	+ 6
18.5	- 1	6	17.5	6.69	1.29	- 2	48.56	8.93	+ 6
19.5	- 6	7	15.7	6.83	1.33	- 9	48.56	8.91	+ 6
20.5	-10	7	14.1	6.96	1.37	-16	48.56	8.90	+ 4
21.5	-12	8	12.6	7.10	1.41	-20	48.55	8.88	+ 1
22.5	-13	+ 9	11.4	+ 7.24	-1.45	-21	48.54	-8.86	- 1
23.5	-12	9	10.1	7.38	1.49	-20	48.53	8.84	- 4
24.5	- 9	9	8.9	7.52	1.54	-15	48.53	8.83	- 6
25.5	- 5	8	7.5	7.65	1.58	- 8	48.53	8.81	- 7
26.5	0	7	5.9	7.79	1.63	0	48.55	8.79	- 7
27.5	+ 4	5	3.9	7.93	1.67	+ 7	48.59	8.78	- 5
28.5	+ 7	+ 5	1.1	+ 8.07	-1.72	+12	48.63	-8.76	- 1
März 1.5	+ 8	6	22.3	8.20	1.77	+13	48.68	8.75	+ 2
2.5	+ 6	7	20.4	8.34	1.82	+10	48.73	8.74	+ 6
3.5	+ 2	7	18.7	8.48	1.88	+ 4	48.76	8.72	+ 7
4.5	- 2	8	17.2	8.62	1.93	- 4	48.77	8.71	+ 7
5.5	- 6	7	15.6	8.75	1.98	-10	48.76	8.70	+ 6
6.5	- 8	+ 6	13.6	+ 8.89	-2.04	-13	48.74	-8.69	+ 2
7.5	- 8	5	10.9	9.03	2.09	-13	48.71	8.68	- 2
8.5	- 5	6	8.1	9.17	2.15	- 8	48.68	8.67	- 5
9.5	0	7	5.9	9.30	2.20	0	48.67	8.66	- 7
10.5	+ 5	8	4.3	9.44	2.26	+ 9	48.67	8.65	- 8
11.5	+10	9	2.9	9.58	2.32	+17	48.69	8.64	- 6
12.5	+13	+ 9	1.6	+ 9.72	-2.37	+22	48.72	-8.63	- 4
13.5	+14	9	0.3	9.85	2.43	+23	48.76	8.63	- 1
14.5	+13	9	22.9	9.99	2.49	+21	48.79	8.62	+ 2
15.5	+ 9	8	21.5	10.13	2.55	+16	48.82	8.61	+ 5
16.5	+ 5	7	19.9	10.27	2.61	+ 9	48.84	8.61	+ 6
17.5	+ 1	7	18.2	10.41	2.67	+ 1	48.85	8.61	+ 7
18.5	- 4	+ 7	16.4	+10.54	-2.73	- 7	48.85	-8.60	+ 6
19.5	- 8	7	14.6	10.68	2.79	-13	48.83	8.60	+ 4
20.5	-11	7	13.1	10.82	2.85	-18	48.81	8.60	+ 2
21.5	-13	8	11.7	10.96	2.91	-21	48.78	8.59	- 1
22.5	-12	9	10.5	11.09	2.97	-20	48.75	8.59	- 3
23.5	-10	9	9.3	11.23	3.03	-17	48.73	8.59	- 6

Mittl. Zeit Greenwich	$t$	$f$	$\log g$	$G$	$\log h$	$H$	$\log i$
1923							
März 23.5	0.2235	+0.501	0.9636	4 36.6 <sup>h</sup>	1.2737	17 49.8 <sup>m</sup>	0.9106 <sub>n</sub>
24.5	0.2262	0.506	0.9642	4 35.9	1.2738	17 45.5	0.9102 <sub>n</sub>
25.5	0.2289	0.511	0.9647	4 35.2	1.2739	17 41.2	0.9097 <sub>n</sub>
26.5	0.2317	0.515	0.9653	4 34.5	1.2740	17 36.9	0.9090 <sub>n</sub>
27.5	0.2344	0.520	0.9659	4 33.8	1.2742	17 32.6	0.9083 <sub>n</sub>
28.5	0.2371	0.525	0.9666	4 33.1	1.2743	17 28.3	0.9074 <sub>n</sub>
29.5	0.2399	+0.530	0.9673	4 32.4	1.2745	17 24.0	0.9064 <sub>n</sub>
30.5	0.2426	0.535	0.9681	4 31.7	1.2747	17 19.7	0.9053 <sub>n</sub>
31.5	0.2454	0.540	0.9689	4 31.0	1.2750	17 15.4	0.9040 <sub>n</sub>
April 1.5	0.2481	0.544	0.9697	4 30.4	1.2752	17 11.1	0.9025 <sub>n</sub>
2.5	0.2508	0.549	0.9705	4 29.7	1.2755	17 6.8	0.9010 <sub>n</sub>
3.5	0.2536	0.554	0.9714	4 29.0	1.2758	17 2.6	0.8993 <sub>n</sub>
4.5	0.2563	+0.559	0.9723	4 28.4	1.2761	16 58.3	0.8975 <sub>n</sub>
5.5	0.2591	0.564	0.9732	4 27.7	1.2765	16 54.1	0.8955 <sub>n</sub>
6.5	0.2618	0.570	0.9742	4 27.0	1.2768	16 49.9	0.8934 <sub>n</sub>
7.5	0.2645	0.575	0.9752	4 26.3	1.2772	16 45.6	0.8911 <sub>n</sub>
8.5	0.2673	0.580	0.9762	4 25.7	1.2776	16 41.4	0.8888 <sub>n</sub>
9.5	0.2700	0.585	0.9772	4 25.0	1.2780	16 37.2	0.8863 <sub>n</sub>
10.5	0.2727	+0.591	0.9783	4 24.3	1.2784	16 33.0	0.8837 <sub>n</sub>
11.5	0.2755	0.596	0.9795	4 23.7	1.2789	16 28.9	0.8809 <sub>n</sub>
12.5	0.2782	0.602	0.9806	4 23.0	1.2794	16 24.7	0.8779 <sub>n</sub>
13.5	0.2810	0.607	0.9818	4 22.3	1.2799	16 20.5	0.8748 <sub>n</sub>
14.5	0.2837	0.613	0.9830	4 21.7	1.2804	16 16.4	0.8716 <sub>n</sub>
15.5	0.2864	0.618	0.9842	4 21.0	1.2809	16 12.3	0.8682 <sub>n</sub>
16.5	0.2892	+0.624	0.9855	4 20.3	1.2814	16 8.1	0.8647 <sub>n</sub>
17.5	0.2919	0.630	0.9867	4 19.6	1.2819	16 4.0	0.8610 <sub>n</sub>
18.5	0.2946	0.636	0.9880	4 18.9	1.2825	15 59.9	0.8572 <sub>n</sub>
19.5	0.2974	0.642	0.9893	4 18.3	1.2830	15 55.8	0.8532 <sub>n</sub>
20.5	0.3001	0.648	0.9906	4 17.6	1.2836	15 51.8	0.8490 <sub>n</sub>
21.5	0.3029	0.654	0.9919	4 16.9	1.2842	15 47.7	0.8446 <sub>n</sub>
22.5	0.3056	+0.660	0.9933	4 16.2	1.2848	15 43.7	0.8402 <sub>n</sub>
23.5	0.3083	0.666	0.9947	4 15.5	1.2854	15 39.6	0.8355 <sub>n</sub>
24.5	0.3111	0.672	0.9961	4 14.8	1.2860	15 35.6	0.8307 <sub>n</sub>
25.5	0.3138	0.679	0.9975	4 14.1	1.2866	15 31.6	0.8256 <sub>n</sub>
26.5	0.3165	0.685	0.9990	4 13.4	1.2872	15 27.6	0.8204 <sub>n</sub>
27.5	0.3193	0.692	1.0005	4 12.7	1.2878	15 23.6	0.8150 <sub>n</sub>
28.5	0.3220	+0.699	1.0020	4 12.0	1.2884	15 19.7	0.8094 <sub>n</sub>
29.5	0.3248	0.705	1.0035	4 11.2	1.2891	15 15.7	0.8036 <sub>n</sub>
30.5	0.3275	0.712	1.0050	4 10.5	1.2897	15 11.8	0.7976 <sub>n</sub>
Mai 1.5	0.3302	0.719	1.0066	4 9.8	1.2903	15 7.9	0.7915 <sub>n</sub>
2.5	0.3330	0.726	1.0081	4 9.0	1.2909	15 4.0	0.7850 <sub>n</sub>
3.5	0.3357	0.733	1.0097	4 8.3	1.2916	15 0.0	0.7784 <sub>n</sub>

Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1923.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1923	in 0.001	in 0.01				in 0.01	23° 26'		in 0.01
März 23.5	-10	+9	<sup>h</sup> 9.3	+11.23	-3.03	-17	48.73	-8.59	-6
24.5	-7	8	8.1	11.37	3.09	-11	48.71	8.59	-7
25.5	-2	7	6.7	11.51	3.15	-3	48.71	8.60	-7
26.5	+2	6	4.9	11.64	3.21	+4	48.73	8.60	-5
27.5	+6	5	2.4	11.78	3.27	+9	48.75	8.60	-3
28.5	+7	5	23.2	11.92	3.33	+11	48.78	8.60	+1
29.5	+6	+6	20.7	+12.06	-3.39	+9	48.81	-8.61	+4
30.5	+3	7	18.9	12.19	3.45	+4	48.83	8.61	+7
31.5	-1	8	17.4	12.33	3.51	-3	48.83	8.61	+8
April 1.5	-6	7	15.9	12.47	3.56	-10	48.81	8.62	+6
2.5	-9	7	14.2	12.61	3.62	-14	48.78	8.63	+4
3.5	-9	6	11.9	12.74	3.68	-14	48.73	8.63	0
4.5	-6	+6	9.0	+12.88	-3.73	-10	48.69	-8.64	-4
5.5	-2	7	6.6	13.02	3.79	-2	48.65	8.65	-7
6.5	+4	8	4.7	13.16	3.84	+7	48.63	8.66	-8
7.5	+9	9	3.3	13.29	3.89	+15	48.63	8.67	-7
8.5	+13	10	1.9	13.43	3.95	+22	48.64	8.68	-5
9.5	+15	10	0.7	13.57	4.00	+24	48.66	8.69	-2
10.5	+14	+9	23.4	+13.71	-4.05	+23	48.68	-8.70	+1
11.5	+12	9	22.0	13.85	4.10	+19	48.69	8.71	+4
12.5	+7	8	20.6	13.98	4.14	+12	48.69	8.72	+6
13.5	+3	7	19.0	14.12	4.19	+4	48.69	8.73	+7
14.5	-2	6	17.2	14.26	4.24	-4	48.67	8.74	+6
15.5	-6	7	15.3	14.40	4.28	-11	48.64	8.76	+5
16.5	-10	+7	13.6	+14.53	-4.33	-16	48.61	-8.77	+3
17.5	-12	8	12.2	14.67	4.37	-19	48.57	8.78	0
18.5	-12	8	10.9	14.81	4.41	-19	48.53	8.80	-2
19.5	-10	8	9.6	14.95	4.45	-17	48.48	8.81	-5
20.5	-7	8	8.4	15.08	4.49	-12	48.44	8.82	-7
21.5	-3	7	7.0	15.22	4.53	-5	48.43	8.84	-7
22.5	+1	+6	5.5	+15.36	-4.56	+2	48.43	-8.85	-6
23.5	+5	5	3.3	15.50	4.60	+8	48.43	8.87	-4
24.5	+6	4	0.2	15.63	4.63	+10	48.45	8.88	0
25.5	+6	5	21.1	15.77	4.67	+9	48.47	8.90	+3
26.5	+3	7	19.1	15.91	4.70	+5	48.48	8.92	+6
27.5	-2	8	17.5	16.05	4.73	-3	48.48	8.93	+8
28.5	-6	+8	16.1	+16.18	-4.76	-10	48.46	-8.95	+7
29.5	-9	8	14.6	16.32	4.78	-15	48.42	8.97	+5
30.5	-10	7	12.7	16.46	4.81	-17	48.36	8.98	+1
Mai 1.5	-8	6	10.4	16.60	4.83	-14	48.31	9.00	-3
2.5	-4	6	7.7	16.74	4.86	-7	48.26	9.02	-6
3.5	+2	7	5.5	16.87	4.88	+3	48.22	9.03	-7



Mittl. Zeit Greenwich	$t$	$f$	$\log g$	$G$	$\log h$	$H$	$\log i$	$i$	
1923									
Mai	3.5	0.3357	+0.733	1.0097	4 <sup>h</sup> 8.3 <sup>m</sup>	1.2916	15 <sup>h</sup> 0.0 <sup>m</sup>	0.7784 <sub>n</sub>	
	4.5	0.3385	0.741	1.0112	4 7.5	1.2922	14 56.2	0.7716 <sub>n</sub>	
	5.5	0.3412	0.748	1.0127	4 6.8	1.2928	14 52.3	0.7645 <sub>n</sub>	
	6.5	0.3439	0.755	1.0143	4 6.0	1.2935	14 48.4	0.7572 <sub>n</sub>	
	7.5	0.3467	0.763	1.0160	4 5.2	1.2941	14 44.6	0.7496 <sub>n</sub>	
	8.5	0.3494	0.770	1.0176	4 4.5	1.2947	14 40.8	0.7418 <sub>n</sub>	
	9.5	0.3521	+0.778	1.0192	4 3.7	1.2953	14 36.9	0.7337 <sub>n</sub>	-5.416
	10.5	0.3549	0.786	1.0208	4 2.9	1.2960	14 33.1	0.7253 <sub>n</sub>	5.312
	11.5	0.3576	0.793	1.0224	4 2.1	1.2966	14 29.3	0.7166 <sub>n</sub>	5.207
	12.5	0.3604	0.801	1.0241	4 1.4	1.2972	14 25.6	0.7077 <sub>n</sub>	5.101
	13.5	0.3631	0.809	1.0257	4 0.6	1.2978	14 21.8	0.6984 <sub>n</sub>	4.993
	14.5	0.3658	0.817	1.0273	3 59.7	1.2984	14 18.0	0.6889 <sub>n</sub>	4.885
	15.5	0.3686	+0.825	1.0290	3 58.9	1.2990	14 14.3	0.6790 <sub>n</sub>	-4.775
	16.5	0.3713	0.834	1.0306	3 58.1	1.2995	14 10.5	0.6687 <sub>n</sub>	4.663
	17.5	0.3740	0.842	1.0322	3 57.2	1.3001	14 6.8	0.6580 <sub>n</sub>	4.550
	18.5	0.3768	0.850	1.0338	3 56.4	1.3007	14 3.1	0.6469 <sub>n</sub>	4.435
	19.5	0.3795	0.859	1.0355	3 55.6	1.3012	13 59.4	0.6355 <sub>n</sub>	4.320
	20.5	0.3823	0.867	1.0371	3 54.7	1.3018	13 55.7	0.6237 <sub>n</sub>	4.204
	21.5	0.3850	+0.876	1.0387	3 53.9	1.3023	13 52.0	0.6113 <sub>n</sub>	-4.086
	22.5	0.3877	0.885	1.0404	3 53.0	1.3028	13 48.4	0.5985 <sub>n</sub>	3.967
23.5	0.3905	0.893	1.0421	3 52.2	1.3033	13 44.7	0.5851 <sub>n</sub>	3.847	
24.5	0.3932	0.902	1.0438	3 51.3	1.3038	13 41.1	0.5712 <sub>n</sub>	3.726	
25.5	0.3959	0.911	1.0454	3 50.4	1.3043	13 37.4	0.5568 <sub>n</sub>	3.604	
26.5	0.3987	0.920	1.0471	3 49.5	1.3047	13 33.8	0.5417 <sub>n</sub>	3.481	
27.5	0.4014	+0.929	1.0487	3 48.6	1.3052	13 30.2	0.5261 <sub>n</sub>	-3.358	
28.5	0.4042	0.938	1.0503	3 47.7	1.3056	13 26.5	0.5096 <sub>n</sub>	3.233	
29.5	0.4069	0.948	1.0519	3 46.9	1.3061	13 22.9	0.4923 <sub>n</sub>	3.107	
30.5	0.4096	0.957	1.0536	3 46.0	1.3065	13 19.3	0.4744 <sub>n</sub>	2.981	
31.5	0.4124	0.966	1.0552	3 45.1	1.3069	13 15.8	0.4555 <sub>n</sub>	2.854	
Juni	1.5	0.4151	0.975	1.0567	3 44.2	1.3072	13 12.2	0.4355 <sub>n</sub>	2.726
	2.5	0.4179	+0.984	1.0583	3 43.2	1.3076	13 8.6	0.4145 <sub>n</sub>	-2.597
	3.5	0.4206	0.994	1.0599	3 42.3	1.3079	13 5.0	0.3923 <sub>n</sub>	2.468
	4.5	0.4233	1.003	1.0615	3 41.4	1.3083	13 1.5	0.3688 <sub>n</sub>	2.338
	5.5	0.4261	1.013	1.0631	3 40.5	1.3086	12 57.9	0.3438 <sub>n</sub>	2.207
	6.5	0.4288	1.022	1.0646	3 39.6	1.3089	12 54.4	0.3172 <sub>n</sub>	2.076
	7.5	0.4315	1.032	1.0662	3 38.6	1.3092	12 50.8	0.2887 <sub>n</sub>	1.944
	8.5	0.4343	+1.042	1.0677	3 37.7	1.3094	12 47.3	0.2582 <sub>n</sub>	-1.812
	9.5	0.4370	1.051	1.0692	3 36.8	1.3097	12 43.7	0.2251 <sub>n</sub>	1.679
	10.5	0.4398	1.061	1.0708	3 35.8	1.3099	12 40.2	0.1889 <sub>n</sub>	1.545
	11.5	0.4425	1.071	1.0723	3 34.8	1.3101	12 36.7	0.1498 <sub>n</sub>	1.412
	12.5	0.4452	1.081	1.0738	3 33.9	1.3103	12 33.2	0.1065 <sub>n</sub>	1.278
	13.5	0.4480	1.090	1.0753	3 32.9	1.3104	12 29.6	0.0584 <sub>n</sub>	1.144

Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1923.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1923	in 0.001	in 0.01				in 0.01	23° 26'		in 0.01
Mai 3.5	+ 2	+ 7	5.5 <sup>h</sup>	+16.87	-4.88	+ 3	48.22	-9.03	- 7
4.5	+ 7	9	3.8	17.01	4.90	+12	48.20	9.05	- 7
5.5	+12	10	2.4	17.15	4.92	+20	48.20	9.07	- 6
6.5	+15	10	1.0	17.29	4.93	+24	48.21	9.08	- 3
7.5	+15	10	23.8	17.42	4.95	+25	48.23	9.10	0
8.5	+13	9	22.6	17.56	4.96	+22	48.24	9.12	+ 3
9.5	+ 9	+ 8	21.3	+17.70	-4.97	+16	48.24	-9.13	+ 5
10.5	+ 5	7	19.7	17.84	4.98	+ 8	48.23	9.15	+ 6
11.5	0	6	18.0	17.97	4.99	0	48.21	9.17	+ 6
12.5	- 5	6	16.1	18.11	5.00	- 7	48.19	9.18	+ 5
13.5	- 8	6	14.2	18.25	5.01	-13	48.15	9.20	+ 3
14.5	-11	7	12.5	18.39	5.02	-17	48.11	9.22	+ 1
15.5	-11	+ 8	11.1	+18.52	-5.02	-18	48.06	-9.23	- 2
16.5	-10	8	9.8	18.66	5.02	-17	48.02	9.25	- 4
17.5	- 8	8	8.6	18.80	5.03	-13	47.98	9.26	- 6
18.5	- 4	8	7.2	18.94	5.03	- 6	47.96	9.28	- 7
19.5	+ 1	7	5.8	19.07	5.03	+ 1	47.95	9.29	- 7
20.5	+ 4	5	3.9	19.21	5.02	+ 7	47.95	9.31	- 5
21.5	+ 6	+ 4	1.3	+19.35	-5.02	+11	47.97	-9.32	- 2
22.5	+ 6	5	22.1	19.49	5.02	+10	47.99	9.33	+ 2
23.5	+ 4	6	19.8	19.62	5.01	+ 7	48.01	9.35	+ 5
24.5	0	7	17.9	19.76	5.00	0	48.01	9.36	+ 7
25.5	- 5	8	16.4	19.90	5.00	- 8	48.00	9.37	+ 8
26.5	- 9	8	15.0	20.04	4.99	-15	47.97	9.39	+ 6
27.5	-11	+ 8	13.3	+20.18	-4.98	-18	47.93	-9.40	+ 3
28.5	-10	7	11.4	20.31	4.96	-17	47.88	9.41	- 1
29.5	- 7	7	9.0	20.45	4.95	-12	47.83	9.42	- 5
30.5	- 2	7	6.6	20.59	4.94	- 3	47.79	9.43	- 7
31.5	+ 4	8	4.6	20.73	4.93	+ 7	47.78	9.44	- 8
Juni 1.5	+10	9	2.9	20.86	4.91	+16	47.78	9.45	- 6
2.5	+14	+10	1.5	+21.00	-4.90	+22	47.79	-9.46	- 4
3.5	+15	10	0.2	21.14	4.88	+25	47.81	9.47	- 1
4.5	+14	9	23.0	21.28	4.86	+23	47.83	9.48	+ 2
5.5	+11	9	21.7	21.41	4.84	+18	47.85	9.49	+ 5
6.5	+ 7	8	20.3	21.55	4.82	+11	47.85	9.49	+ 6
7.5	+ 2	7	18.6	21.69	4.80	+ 3	47.85	9.50	+ 7
8.5	- 3	+ 6	16.8	+21.83	-4.78	- 5	47.83	-9.50	+ 6
9.5	- 7	6	14.9	21.96	4.76	-11	47.81	9.51	+ 4
10.5	-10	7	13.2	22.10	4.74	-16	47.78	9.52	+ 2
11.5	-11	7	11.6	22.24	4.72	-18	47.75	9.52	- 1
12.5	-10	8	10.2	22.38	4.70	-17	47.72	9.52	- 4
13.5	- 8	8	8.9	22.51	4.68	-13	47.69	9.53	- 6

Mittl. Zeit Greenwich	<i>t</i>	<i>f</i>	log <i>g</i>	<i>G</i>	log <i>h</i>	<i>H</i>	log <i>i</i>	<i>i</i>	
1923									
Juni	13.5	0.4480	+1.090	1.0753	3 <sup>h</sup> 32.9 <sup>m</sup>	1.3104	12 <sup>h</sup> 29.6 <sup>m</sup>	0.0584 <sub>n</sub>	-1.144
	14.5	0.4507	1.100	1.0767	3 32.0	1.3106	12 26.1	0.0039 <sub>n</sub>	1.009
	15.5	0.4534	1.110	1.0782	3 31.0	1.3107	12 22.6	9.9415 <sub>n</sub>	0.874
	16.5	0.4562	1.120	1.0796	3 30.1	1.3108	12 19.1	9.8686 <sub>n</sub>	0.739
	17.5	0.4589	1.130	1.0811	3 29.1	1.3109	12 15.6	9.7810 <sub>n</sub>	0.604
	18.5	0.4617	1.140	1.0825	3 28.1	1.3110	12 12.1	9.6712 <sub>n</sub>	0.469
	19.5	0.4644	+1.150	1.0839	3 27.2	1.3111	12 8.6	9.5224 <sub>n</sub>	-0.333
	20.5	0.4671	1.159	1.0853	3 26.2	1.3111	12 5.1	9.2945 <sub>n</sub>	0.197
	21.5	0.4699	1.169	1.0867	3 25.2	1.3111	12 1.6	8.7924 <sub>n</sub>	-0.062
	22.5	0.4726	1.179	1.0880	3 24.2	1.3111	11 58.1	8.8692	+0.074
	23.5	0.4753	1.189	1.0894	3 23.3	1.3111	11 54.6	9.3222	0.210
	24.5	0.4781	1.199	1.0908	3 22.3	1.3111	11 51.1	9.5378	0.345
	25.5	0.4808	+1.209	1.0921	3 21.3	1.3110	11 47.6	9.6812	+0.480
	26.5	0.4836	1.219	1.0934	3 20.4	1.3109	11 44.1	9.7889	0.615
	27.5	0.4863	1.229	1.0947	3 19.4	1.3108	11 40.6	9.8751	0.750
	28.5	0.4890	1.238	1.0960	3 18.4	1.3107	11 37.1	9.9469	0.885
	29.5	0.4918	1.248	1.0973	3 17.4	1.3106	11 33.6	0.0086	1.020
	30.5	0.4945	1.258	1.0985	3 16.5	1.3104	11 30.1	0.0626	1.155
Juli	1.5	0.4972	+1.268	1.0998	3 15.5	1.3103	11 26.6	0.1103	+1.289
	2.5	0.5000	1.277	1.1010	3 14.5	1.3101	11 23.0	0.1529	1.422
	3.5	0.5027	1.287	1.1022	3 13.6	1.3099	11 19.5	0.1917	1.555
	4.5	0.5055	1.297	1.1034	3 12.6	1.3096	11 16.0	0.2274	1.688
	5.5	0.5082	1.306	1.1046	3 11.6	1.3094	11 12.5	0.2601	1.820
	6.5	0.5109	1.316	1.1057	3 10.7	1.3091	11 8.9	0.2905	1.952
	7.5	0.5137	+1.326	1.1069	3 9.7	1.3088	11 5.4	0.3189	+2.084
	8.5	0.5164	1.335	1.1080	3 8.8	1.3086	11 1.9	0.3454	2.215
	9.5	0.5192	1.345	1.1091	3 7.8	1.3083	10 58.3	0.3701	2.345
	10.5	0.5219	1.354	1.1103	3 6.8	1.3079	10 54.8	0.3934	2.474
	11.5	0.5246	1.363	1.1114	3 5.9	1.3076	10 51.2	0.4155	2.603
	12.5	0.5274	1.373	1.1125	3 4.9	1.3072	10 47.7	0.4363	2.731
	13.5	0.5301	+1.382	1.1135	3 4.0	1.3068	10 44.1	0.4561	+2.858
	14.5	0.5328	1.391	1.1145	3 3.1	1.3064	10 40.5	0.4749	2.985
	15.5	0.5356	1.400	1.1156	3 2.1	1.3060	10 36.9	0.4929	3.111
	16.5	0.5383	1.410	1.1166	3 1.2	1.3056	10 33.4	0.5099	3.235
	17.5	0.5411	1.419	1.1176	3 0.3	1.3052	10 29.8	0.5262	3.359
	18.5	0.5438	1.428	1.1186	2 59.3	1.3047	10 26.2	0.5420	3.483
	19.5	0.5465	+1.436	1.1196	2 58.4	1.3043	10 22.6	0.5569	+3.605
	20.5	0.5493	1.445	1.1205	2 57.5	1.3038	10 18.9	0.5712	3.726
	21.5	0.5520	1.454	1.1215	2 56.6	1.3033	10 15.3	0.5850	3.846
	22.5	0.5547	1.463	1.1224	2 55.7	1.3028	10 11.7	0.5982	3.965
	23.5	0.5575	1.472	1.1233	2 54.8	1.3023	10 8.0	0.6110	4.083
	24.5	0.5602	1.480	1.1243	2 53.9	1.3018	10 4.4	0.6232	4.200



# Reduktionsgrößen 1923

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Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1923.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1923	in 0.001	in 0.01				in 0.01	23° 26'		in 0.01
Juni 13.5	— 8	+ 8	8.9	+22.51	—4.68	—13	47.69	—9.53	— 6
14.5	— 5	8	7.5	22.65	4.66	— 7	47.67	9.53	— 7
15.5	0	7	6.1	22.79	4.63	0	47.67	9.53	— 7
16.5	+ 4	6	4.3	22.93	4.61	+ 6	47.68	9.53	— 6
17.5	+ 7	5	2.1	23.06	4.58	+11	47.71	9.53	— 3
18.5	+ 8	5	23.3	23.20	4.56	+12	47.74	9.53	+ 1
19.5	+ 6	+ 6	20.7	+23.34	—4.54	+ 9	47.78	—9.53	+ 5
20.5	+ 2	7	18.8	23.48	4.51	+ 3	47.80	9.53	+ 7
21.5	— 3	8	17.1	23.62	4.49	— 5	47.81	9.53	+ 8
22.5	— 8	8	15.6	23.75	4.46	—13	47.80	9.53	+ 7
23.5	—11	8	13.9	23.89	4.44	—18	47.78	9.52	+ 4
24.5	—11	7	12.1	24.03	4.42	—19	47.74	9.52	0
25.5	— 9	+ 7	10.0	+24.17	—4.39	—15	47.71	—9.52	— 4
26.5	— 5	7	7.7	24.30	4.37	— 8	47.68	9.51	— 6
27.5	+ 1	8	5.5	24.44	4.34	+ 2	47.68	9.50	— 7
28.5	+ 7	8	3.7	24.58	4.32	+12	47.69	9.50	— 7
29.5	+12	9	2.1	24.72	4.30	+19	47.71	9.49	— 5
30.5	+14	9	0.7	24.85	4.28	+23	47.75	9.49	— 2
Juli 1.5	+14	+ 9	23.4	+24.99	—4.25	+23	47.79	—9.48	+ 1
2.5	+12	9	22.0	25.13	4.23	+19	47.82	9.47	+ 4
3.5	+ 8	8	20.7	25.27	4.21	+13	47.85	9.46	+ 6
4.5	+ 3	7	19.2	25.40	4.19	+ 5	47.86	9.45	+ 7
5.5	— 2	6	17.4	25.54	4.17	— 3	47.87	9.44	+ 6
6.5	— 6	6	15.5	25.68	4.15	— 9	47.86	9.43	+ 5
7.5	— 9	+ 6	13.7	+25.82	—4.13	—15	47.85	—9.42	+ 3
8.5	—11	7	12.0	25.95	4.11	—18	47.83	9.41	0
9.5	—11	8	10.6	26.09	4.10	—18	47.82	9.40	— 3
10.5	— 9	8	9.3	26.23	4.08	—15	47.81	9.38	— 5
11.5	— 6	8	7.9	26.37	4.06	— 9	47.80	9.37	— 7
12.5	— 2	7	6.5	26.51	4.05	— 2	47.81	9.36	— 7
13.5	+ 3	+ 6	4.9	+26.64	—4.03	+ 5	47.83	—9.34	— 6
14.5	+ 6	6	2.8	26.78	4.02	+10	47.87	9.33	— 4
15.5	+ 8	5	0.2	26.92	4.01	+13	47.92	9.31	0
16.5	+ 8	6	21.7	27.06	4.00	+12	47.97	9.30	+ 3
17.5	+ 5	7	19.7	27.19	3.99	+ 7	48.01	9.28	+ 6
18.5	0	8	18.0	27.33	3.98	0	48.04	9.26	+ 8
19.5	— 5	+ 8	16.3	+27.47	—3.97	— 8	48.05	—9.25	+ 7
20.5	— 9	8	14.7	27.61	3.96	—15	48.05	9.23	+ 5
21.5	—11	7	12.9	27.74	3.95	—18	48.03	9.21	+ 2
22.5	—10	7	10.7	27.88	3.95	—16	48.01	9.19	— 2
23.5	— 6	7	8.4	28.02	3.94	—10	47.99	9.18	— 5
24.5	— 1	7	6.3	28.16	3.94	— 1	47.99	9.16	— 7

Mittl. Zeit Greenwich	$t$	$f$	$\log g$	$G$	$\log h$	$H$	$\log i$	$i$	
1923									
Juli	24.5	0.5602	+1.480	I.1243	2 <sup>h</sup> 53.9 <sup>m</sup>	I.3018	10 <sup>h</sup> 4.4 <sup>m</sup>	0.6232	+4.200
	25.5	0.5630	1.489	I.1252	2 53.0	I.3012	10 0.7	0.6351	4.316
	26.5	0.5657	1.497	I.1260	2 52.1	I.3007	9 57.0	0.6464	4.430
	27.5	0.5684	1.505	I.1268	2 51.2	I.3001	9 53.4	0.6574	4.544
	28.5	0.5712	1.514	I.1277	2 50.3	I.2996	9 49.7	0.6680	4.656
	29.5	0.5739	1.522	I.1285	2 49.5	I.2990	9 46.0	0.6782	4.767
	30.5	0.5766	+1.530	I.1294	2 48.6	I.2984	9 42.2	0.6881	+4.876
	31.5	0.5794	1.538	I.1302	2 47.8	I.2978	9 38.5	0.6976	4.984
Aug.	1.5	0.5821	1.546	I.1310	2 46.9	I.2972	9 34.8	0.7068	5.091
	2.5	0.5849	1.554	I.1318	2 46.1	I.2966	9 31.0	0.7158	5.197
	3.5	0.5876	1.562	I.1326	2 45.3	I.2960	9 27.3	0.7244	5.301
	4.5	0.5903	1.569	I.1333	2 44.5	I.2954	9 23.5	0.7327	5.404
	5.5	0.5931	+1.577	I.1341	2 43.6	I.2948	9 19.7	0.7408	
	6.5	0.5958	1.584	I.1349	2 42.8	I.2942	9 15.9	0.7485	
	7.5	0.5986	1.592	I.1356	2 42.0	I.2936	9 12.1	0.7560	
	8.5	0.6013	1.599	I.1363	2 41.2	I.2929	9 8.3	0.7634	
	9.5	0.6040	1.606	I.1370	2 40.5	I.2923	9 4.5	0.7704	
	10.5	0.6068	1.614	I.1378	2 39.7	I.2917	9 0.6	0.7772	
	11.5	0.6095	+1.621	I.1385	2 38.9	I.2911	8 56.8	0.7838	
	12.5	0.6122	1.628	I.1392	2 38.2	I.2904	8 52.9	0.7902	
	13.5	0.6150	1.635	I.1398	2 37.4	I.2898	8 49.0	0.7964	
	14.5	0.6177	1.642	I.1405	2 36.7	I.2892	8 45.1	0.8024	
	15.5	0.6205	1.648	I.1412	2 36.0	I.2886	8 41.2	0.8081	
	16.5	0.6232	1.655	I.1418	2 35.3	I.2879	8 37.3	0.8137	
	17.5	0.6259	+1.662	I.1425	2 34.6	I.2873	8 33.4	0.8191	
	18.5	0.6287	1.668	I.1431	2 33.9	I.2867	8 29.4	0.8243	
	19.5	0.6314	1.674	I.1438	2 33.2	I.2861	8 25.5	0.8292	
	20.5	0.6341	1.681	I.1444	2 32.5	I.2855	8 21.5	0.8341	
	21.5	0.6369	1.687	I.1450	2 31.8	I.2849	8 17.5	0.8388	
	22.5	0.6396	1.693	I.1456	2 31.1	I.2843	8 13.5	0.8433	
	23.5	0.6424	+1.699	I.1463	2 30.5	I.2838	8 9.5	0.8476	
	24.5	0.6451	1.705	I.1469	2 29.9	I.2832	8 5.5	0.8518	
	25.5	0.6478	1.711	I.1475	2 29.2	I.2826	8 1.5	0.8558	
	26.5	0.6506	1.717	I.1481	2 28.6	I.2821	7 57.4	0.8597	
	27.5	0.6533	1.723	I.1487	2 28.0	I.2816	7 53.4	0.8634	
	28.5	0.6560	1.729	I.1493	2 27.4	I.2810	7 49.3	0.8669	
	29.5	0.6588	+1.735	I.1499	2 26.8	I.2805	7 45.2	0.8703	
	30.5	0.6615	1.740	I.1505	2 26.3	I.2800	7 41.1	0.8736	
	31.5	0.6643	1.746	I.1511	2 25.7	I.2796	7 37.0	0.8767	
Sept.	1.5	0.6670	1.751	I.1517	2 25.2	I.2791	7 32.9	0.8796	
	2.5	0.6697	1.757	I.1523	2 24.6	I.2786	7 28.8	0.8825	
	3.5	0.6725	1.762	I.1530	2 24.1	I.2782	7 24.7	0.8851	

# Reduktionsgrößen 1923

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Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1923.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1923	in 0.001	in 0.01				in 0.01	23° 26'		in 0.01
Juli 24.5	- 1	+ 7	6.3	+28.16	-3.94	- 1	47.99	-9.16	- 7
25.5	+ 5	8	4.4	28.29	3.94	+ 8	48.01	9.14	- 7
26.5	+10	9	2.7	28.43	3.94	+16	48.05	9.12	- 6
27.5	+13	9	1.3	28.57	3.94	+21	48.09	9.10	- 3
28.5	+14	9	23.8	28.71	3.94	+22	48.14	9.08	0
29.5	+12	9	22.4	28.84	3.95	+20	48.19	9.06	+ 3
30.5	+ 9	+ 8	21.0	+28.98	-3.95	+14	48.23	-9.04	+ 6
31.5	+ 4	7	19.5	29.12	3.96	+ 7	48.26	9.02	+ 7
Aug. 1.5	- 1	7	17.8	29.26	3.97	- 1	48.28	9.00	+ 7
2.5	- 5	6	15.9	29.39	3.98	- 8	48.28	8.98	+ 5
3.5	- 8	6	14.1	29.53	3.99	-13	48.28	8.96	+ 3
4.5	-10	7	12.4	29.67	4.00	-17	48.28	8.94	+ 1
5.5	-11	+ 7	11.0	+29.81	-4.01	-18	48.27	-8.92	- 2
6.5	-10	8	9.8	29.95	4.02	-16	48.27	8.90	- 4
7.5	- 7	8	8.5	30.08	4.04	-12	48.27	8.88	- 6
8.5	- 3	7	7.1	30.22	4.06	- 5	48.28	8.85	- 7
9.5	+ 1	7	5.6	30.36	4.08	+ 2	48.30	8.83	- 7
10.5	+ 5	6	3.7	30.50	4.10	+ 8	48.34	8.81	- 5
11.5	+ 8	+ 5	1.1	+30.63	-4.12	+12	48.39	-8.79	- 2
12.5	+ 8	6	22.6	30.77	4.14	+13	48.45	8.77	+ 2
13.5	+ 6	7	20.4	30.91	4.16	+10	48.50	8.75	+ 5
14.5	+ 2	7	18.7	31.05	4.19	+ 3	48.54	8.73	+ 7
15.5	- 3	8	17.1	31.18	4.22	- 5	48.56	8.71	+ 8
16.5	- 7	8	15.4	31.32	4.25	-12	48.57	8.69	+ 6
17.5	-10	+ 7	13.6	+31.46	-4.28	-16	48.55	-8.67	+ 3
18.5	-10	6	11.3	31.60	4.31	-16	48.53	8.65	- 1
19.5	- 7	7	9.0	31.73	4.34	-12	48.52	8.63	- 5
20.5	- 2	7	6.8	31.87	4.37	- 4	48.51	8.61	- 7
21.5	+ 4	8	4.9	32.01	4.41	+ 6	48.52	8.59	- 8
22.5	+ 9	9	3.2	32.15	4.44	+14	48.55	8.57	- 6
23.5	+12	+ 9	1.7	+32.28	-4.48	+20	48.60	-8.55	- 4
24.5	+14	9	0.3	32.42	4.52	+22	48.65	8.53	- 1
25.5	+13	9	22.8	32.56	4.56	+21	48.70	8.51	+ 3
26.5	+10	8	21.4	32.70	4.60	+16	48.74	8.49	+ 5
27.5	+ 5	7	20.0	32.84	4.64	+ 9	48.77	8.48	+ 6
28.5	+ 1	7	18.3	32.97	4.69	+ 1	48.79	8.46	+ 7
29.5	- 4	+ 6	16.4	+33.11	-4.73	- 6	48.79	-8.44	+ 6
30.5	- 8	6	14.6	33.25	4.78	-12	48.78	8.42	+ 4
31.5	-10	7	13.0	33.39	4.82	-17	48.78	8.41	+ 2
Sept. 1.5	-11	7	11.4	33.52	4.87	-18	48.77	8.39	- 1
2.5	-11	8	10.2	33.66	4.92	-18	48.76	8.38	- 4
3.5	- 9	8	8.9	33.80	4.97	-14	48.75	8.36	- 6



Mittl. Zeit Greenwich	<i>t</i>	<i>f</i>	log <i>g</i>	<i>G</i>	log <i>h</i>	<i>H</i>	log <i>i</i>	
1923								
Sept.	3.5	0.6725	+1.762	1.1530	2 24.1	1.2782	7 24.7	0.8851
	4.5	0.6752	1.767	1.1535	2 23.6	1.2778	7 20.5	0.8877
	5.5	0.6780	1.773	1.1541	2 23.1	1.2774	7 16.4	0.8901
	6.5	0.6807	1.778	1.1547	2 22.6	1.2770	7 12.2	0.8924
	7.5	0.6834	1.783	1.1553	2 22.1	1.2766	7 8.0	0.8945
	8.5	0.6862	1.788	1.1560	2 21.6	1.2763	7 3.9	0.8964
	9.5	0.6889	+1.794	1.1566	2 21.1	1.2760	6 59.7	0.8983
	10.5	0.6916	1.799	1.1572	2 20.7	1.2757	6 55.5	0.9000
	11.5	0.6944	1.804	1.1578	2 20.3	1.2754	6 51.3	0.9017
	12.5	0.6971	1.809	1.1584	2 19.8	1.2751	6 47.0	0.9032
	13.5	0.6999	1.813	1.1591	2 19.4	1.2749	6 42.8	0.9045
	14.5	0.7026	1.818	1.1597	2 19.0	1.2746	6 38.6	0.9057
	15.5	0.7053	+1.823	1.1603	2 18.6	1.2744	6 34.4	0.9068
	16.5	0.7081	1.828	1.1610	2 18.2	1.2743	6 30.1	0.9078
	17.5	0.7108	1.833	1.1617	2 17.9	1.2741	6 25.9	0.9086
	18.5	0.7135	1.838	1.1624	2 17.5	1.2740	6 21.6	0.9093
	19.5	0.7163	1.843	1.1630	2 17.1	1.2739	6 17.4	0.9099
	20.5	0.7190	1.847	1.1637	2 16.8	1.2738	6 13.1	0.9104
	21.5	0.7218	+1.852	1.1644	2 16.5	1.2737	6 8.9	0.9107
	22.5	0.7245	1.857	1.1651	2 16.1	1.2737	6 4.6	0.9109
	23.5	0.7272	1.862	1.1658	2 15.8	1.2737	6 0.3	0.9109
	24.5	0.7300	1.867	1.1665	2 15.5	1.2737	5 56.0	0.9109
	25.5	0.7327	1.871	1.1673	2 15.2	1.2737	5 51.8	0.9107
	26.5	0.7354	1.876	1.1680	2 14.9	1.2738	5 47.5	0.9104
	27.5	0.7382	+1.881	1.1687	2 14.6	1.2739	5 43.2	0.9099
	28.5	0.7409	1.886	1.1695	2 14.4	1.2740	5 38.9	0.9093
	29.5	0.7437	1.890	1.1703	2 14.1	1.2741	5 34.7	0.9086
	30.5	0.7464	1.895	1.1711	2 13.9	1.2743	5 30.4	0.9078
Okt.	1.5	0.7491	1.900	1.1719	2 13.6	1.2744	5 26.1	0.9069
	2.5	0.7519	1.905	1.1727	2 13.4	1.2746	5 21.8	0.9058
	3.5	0.7546	+1.910	1.1736	2 13.1	1.2748	5 17.6	0.9046
	4.5	0.7574	1.915	1.1744	2 12.9	1.2751	5 13.3	0.9033
	5.5	0.7601	1.920	1.1753	2 12.7	1.2754	5 9.0	0.9018
	6.5	0.7628	1.925	1.1762	2 12.5	1.2757	5 4.8	0.9001
	7.5	0.7656	1.930	1.1771	2 12.3	1.2760	5 0.5	0.8984
	8.5	0.7683	1.935	1.1780	2 12.1	1.2763	4 56.2	0.8965
	9.5	0.7710	+1.940	1.1789	2 11.9	1.2766	4 52.0	0.8945
	10.5	0.7738	1.945	1.1798	2 11.7	1.2770	4 47.7	0.8923
	11.5	0.7765	1.951	1.1808	2 11.5	1.2774	4 43.5	0.8900
	12.5	0.7793	1.956	1.1817	2 11.3	1.2778	4 39.3	0.8875
	13.5	0.7820	1.961	1.1827	2 11.2	1.2782	4 35.0	0.8849
	14.5	0.7847	1.967	1.1837	2 11.0	1.2787	4 30.8	0.8822

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Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1923.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	
1923	in 0.001	in 0.01				in 0.01	23° 26'		in 0.01	
Sept. 3.5	- 9	+ 8	8.9	+33.80	-4.97	-14	48.75	-8.36	- 6	
4.5	- 5		8.7	33.94	5.02	- 9	48.75	8.35	- 7	
5.5	- 1		7	34.07	5.07	- 2	48.76	8.33	- 7	
6.5	+ 3		6	34.21	5.12	+ 5	48.79	8.32	- 5	
7.5	+ 6		5	34.35	5.18	+10	48.83	8.31	- 3	
8.5	+ 7		5	23.3	34.49	5.23	+12	48.88	8.30	+ 1
9.5	+ 6	+ 6	20.8	+34.62	-5.28	+10	48.92	-8.28	+ 4	
10.5	+ 3		7	19.0	34.76	5.34	+ 5	48.96	8.27	+ 7
11.5	- 2		8	17.5	34.90	5.40	- 3	48.97	8.26	+ 8
12.5	- 6		8	16.0	35.04	5.45	-10	48.97	8.25	+ 7
13.5	- 9		7	14.4	35.17	5.51	-15	48.95	8.24	+ 4
14.5	-10		6	12.2	35.31	5.56	-16	48.92	8.23	0
15.5	- 8	+ 6	9.7	+35.45	-5.62	-12	48.89	-8.23	- 3	
16.5	- 3		7	7.2	35.59	5.68	- 5	48.87	8.22	- 6
17.5	+ 3		8	5.2	35.72	5.74	+ 4	48.87	8.21	- 7
18.5	+ 8		9	3.5	35.86	5.80	+13	48.88	8.20	- 7
19.5	+12		9	2.1	36.00	5.86	+20	48.90	8.20	- 4
20.5	+14	10	0.7	36.14	5.92	+24	48.94	8.19	- 2	
21.5	+14	+ 9	23.3	+36.28	-5.98	+23	48.98	-8.19	+ 2	
22.5	+11		9	22.0	36.41	6.04	+18	49.01	8.19	+ 4
23.5	+ 7		8	20.5	36.55	6.10	+12	49.02	8.18	+ 6
24.5	+ 3		7	18.9	36.69	6.15	+ 4	49.03	8.18	+ 7
25.5	- 2		6	17.1	36.83	6.21	- 4	49.02	8.18	+ 6
26.5	- 6		6	15.2	36.96	6.27	-10	49.01	8.18	+ 4
27.5	- 9	+ 7	13.5	+37.10	-6.33	-15	48.99	-8.17	+ 2	
28.5	-11		7	11.9	37.24	6.39	-18	48.96	8.17	0
29.5	-11		8	10.5	37.38	6.45	-18	48.93	8.17	- 3
30.5	- 9		8	9.3	37.51	6.51	-16	48.91	8.18	- 5
Okt. 1.5	- 7		8	8.1	37.65	6.57	-11	48.89	8.18	- 7
2.5	- 3		7	6.9	37.79	6.62	- 5	48.88	8.18	- 7
3.5	+ 1	+ 6	5.4	+37.93	-6.68	+ 2	48.89	-8.18	- 6	
4.5	+ 5		5	3.4	38.06	6.74	+ 7	48.90	8.19	- 4
5.5	+ 6		4	0.4	38.20	6.79	+10	48.93	8.19	0
6.5	+ 6		5	21.4	38.34	6.85	+ 9	48.96	8.20	+ 3
7.5	+ 3		7	19.2	38.48	6.90	+ 5	48.99	8.20	+ 6
8.5	- 1		8	17.7	38.61	6.96	- 2	48.99	8.21	+ 8
9.5	- 5	+ 8	16.3	+38.75	-7.01	- 9	48.98	-8.22	+ 7	
10.5	- 9		8	14.8	38.89	7.06	-15	48.95	8.22	+ 5
11.5	-10		7	12.9	39.03	7.11	-17	48.91	8.23	+ 2
12.5	- 9		6	10.7	39.16	7.17	-15	48.86	8.24	- 2
13.5	- 5		6	8.1	39.30	7.22	- 8	48.82	8.25	- 5
14.5	+ 1		7	5.7	39.44	7.26	+ 1	48.79	8.26	- 7

Mittl. Zeit Greenwich	$t$	$f$	$\log g$	$G$	$\log h$	$H$	$\log i$	$i$
1923								
Okt. 14.5	0.7847	+1.967	1.1837	2 <sup>h</sup> 11.0 <sup>m</sup>	1.2787	4 <sup>h</sup> 30.8 <sup>m</sup>	0.8822	
15.5	0.7875	1.972	1.1847	2 10.8	1.2791	4 26.6	0.8793	
16.5	0.7902	1.978	1.1857	2 10.7	1.2796	4 22.4	0.8762	
17.5	0.7929	1.984	1.1868	2 10.5	1.2801	4 18.2	0.8730	
18.5	0.7957	1.989	1.1878	2 10.4	1.2806	4 14.0	0.8696	
19.5	0.7984	1.995	1.1889	2 10.2	1.2812	4 9.8	0.8661	
20.5	0.8012	+2.001	1.1900	2 10.0	1.2817	4 5.6	0.8624	
21.5	0.8039	2.007	1.1911	2 9.9	1.2823	4 1.4	0.8586	
22.5	0.8066	2.013	1.1922	2 9.8	1.2828	3 57.3	0.8545	
23.5	0.8094	2.019	1.1934	2 9.6	1.2834	3 53.1	0.8503	
24.5	0.8121	2.025	1.1945	2 9.5	1.2840	3 48.9	0.8460	
25.5	0.8148	2.031	1.1957	2 9.3	1.2846	3 44.8	0.8414	
26.5	0.8176	+2.038	1.1969	2 9.2	1.2852	3 40.7	0.8367	
27.5	0.8203	2.044	1.1981	2 9.0	1.2858	3 36.5	0.8318	
28.5	0.8231	2.051	1.1993	2 8.9	1.2864	3 32.4	0.8267	
29.5	0.8258	2.057	1.2005	2 8.7	1.2871	3 28.3	0.8213	
30.5	0.8285	2.064	1.2017	2 8.6	1.2877	3 24.2	0.8158	
31.5	0.8313	2.071	1.2029	2 8.4	1.2883	3 20.2	0.8101	
Nov. 1.5	0.8340	+2.078	1.2042	2 8.3	1.2890	3 16.1	0.8042	
2.5	0.8368	2.085	1.2055	2 8.1	1.2896	3 12.0	0.7980	
3.5	0.8395	2.092	1.2068	2 8.0	1.2903	3 8.0	0.7916	
4.5	0.8422	2.099	1.2081	2 7.8	1.2910	3 3.9	0.7850	
5.5	0.8450	2.107	1.2095	2 7.7	1.2916	2 59.9	0.7782	
6.5	0.8477	2.114	1.2108	2 7.5	1.2923	2 55.9	0.7711	
7.5	0.8504	+2.121	1.2121	2 7.3	1.2929	2 51.9	0.7637	+5.803
8.5	0.8532	2.129	1.2135	2 7.2	1.2936	2 47.9	0.7560	5.702
9.5	0.8559	2.137	1.2148	2 7.0	1.2942	2 43.9	0.7481	5.599
10.5	0.8587	2.144	1.2162	2 6.8	1.2949	2 39.9	0.7399	5.494
11.5	0.8614	2.152	1.2176	2 6.6	1.2955	2 35.9	0.7314	5.388
12.5	0.8641	2.160	1.2190	2 6.4	1.2962	2 32.0	0.7226	5.280
13.5	0.8669	+2.168	1.2204	2 6.2	1.2968	2 28.0	0.7135	+5.170
14.5	0.8696	2.177	1.2218	2 6.0	1.2974	2 24.1	0.7041	5.059
15.5	0.8723	2.185	1.2232	2 5.8	1.2981	2 20.1	0.6943	4.946
16.5	0.8751	2.193	1.2246	2 5.6	1.2987	2 16.2	0.6840	4.831
17.5	0.8778	2.202	1.2261	2 5.4	1.2993	2 12.3	0.6735	4.715
18.5	0.8806	2.210	1.2275	2 5.2	1.2999	2 8.4	0.6625	4.597
19.5	0.8833	+2.219	1.2289	2 5.0	1.3005	2 4.5	0.6511	+4.478
20.5	0.8860	2.228	1.2304	2 4.7	1.3010	2 0.6	0.6392	4.357
21.5	0.8888	2.237	1.2318	2 4.5	1.3016	1 56.7	0.6270	4.236
22.5	0.8915	2.246	1.2332	2 4.3	1.3022	1 52.9	0.6142	4.113
23.5	0.8942	2.255	1.2347	2 4.0	1.3027	1 49.0	0.6008	3.988
24.5	0.8970	2.264	1.2362	2 3.8	1.3032	1 45.1	0.5868	3.862



Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1923.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1923	in 0.001	in 0.01				in 0.01	23° 26'		in 0.01
Okt. 14.5	+ 1	+ 7	5.7 <sup>h</sup>	+39.44	-7.26	+ 1	48.79	-8.26	- 7
15.5	+ 7	9	4.0	39.58	7.31	+11	48.78	8.27	- 7
16.5	+12	10	2.5	39.72	7.36	+19	48.78	8.28	- 6
17.5	+15	10	1.1	39.85	7.40	+24	48.80	8.29	- 3
18.5	+15	10	23.8	39.99	7.45	+25	48.82	8.30	0
19.5	+13	9	22.5	40.13	7.49	+22	48.83	8.31	+ 3
20.5	+10	+ 8	21.1	+40.27	-7.53	+16	48.84	-8.32	+ 6
21.5	+ 5	7	19.7	40.40	7.57	+ 8	48.84	8.34	+ 7
22.5	0	7	17.9	40.54	7.61	0	48.82	8.35	+ 7
23.5	- 5	6	16.0	40.68	7.65	- 8	48.79	8.36	+ 5
24.5	- 8	6	14.1	40.82	7.68	-13	48.76	8.38	+ 3
25.5	-10	7	12.4	40.95	7.72	-16	48.72	8.39	+ 1
26.5	-10	+ 7	10.9	+41.09	-7.76	-17	48.68	-8.41	- 2
27.5	-10	8	9.6	41.23	7.79	-16	48.64	8.42	- 4
28.5	- 7	8	8.7	41.37	7.82	-12	48.60	8.44	- 6
29.5	- 4	8	7.2	41.50	7.85	- 6	48.57	8.45	- 7
30.5	0	7	5.9	41.64	7.88	0	48.56	8.47	- 7
31.5	+ 4	5	4.2	41.78	7.91	+ 6	48.56	8.48	- 5
Nov. 1.5	+ 6	+ 4	1.6	+41.92	-7.93	+ 9	48.58	-8.50	- 2
2.5	+ 6	4	22.1	42.05	7.95	+ 9	48.60	8.51	+ 2
3.5	+ 3	6	19.6	42.19	7.97	+ 6	48.61	8.53	+ 5
4.5	0	7	17.8	42.33	7.99	- 1	48.62	8.55	+ 7
5.5	- 5	8	16.4	42.47	8.01	- 9	48.60	8.56	+ 8
6.5	- 9	9	15.1	42.61	8.03	-15	48.57	8.58	+ 6
7.5	-11	+ 8	13.5	+42.74	-8.04	-19	48.52	-8.60	+ 3
8.5	-11	7	11.6	42.88	8.06	-18	48.46	8.61	- 1
9.5	- 8	7	9.2	43.02	8.07	-13	48.41	8.63	- 4
10.5	- 2	7	6.8	43.16	8.08	- 4	48.37	8.64	- 7
11.5	+ 4	8	4.7	43.29	8.09	+ 7	48.34	8.66	- 8
12.5	+10	9	3.0	43.43	8.09	+17	48.33	8.68	- 7
13.5	+14	+10	1.6	+43.57	-8.10	+23	48.34	-8.69	- 4
14.5	+16	10	0.3	43.71	8.10	+26	48.36	8.71	- 1
15.5	+15	10	23.0	43.84	8.11	+24	48.38	8.73	+ 3
16.5	+12	9	21.7	43.98	8.11	+19	48.38	8.74	+ 5
17.5	+ 7	8	20.4	44.12	8.10	+12	48.38	8.76	+ 7
18.5	+ 2	7	18.8	44.26	8.10	+ 3	48.37	8.77	+ 7
19.5	- 3	+ 6	16.9	+44.39	-8.10	- 4	48.34	-8.79	+ 6
20.5	- 6	6	14.9	44.53	8.09	-10	48.31	8.80	+ 4
21.5	- 9	6	13.0	44.67	8.08	-14	48.27	8.82	+ 2
22.5	-10	7	11.2	44.81	8.08	-16	48.22	8.83	- 1
23.5	- 9	7	9.9	44.94	8.07	-15	48.18	8.84	- 4
24.5	- 7	7	8.6	45.08	8.05	-12	48.15	8.86	- 6

Mittl. Zeit Greenwich	<i>t</i>	<i>f</i>	log <i>g</i>	<i>G</i>	log <i>h</i>	<i>H</i>	log <i>i</i>	<i>i</i>
1923								
Nov. 24.5	0.8970	+2.264	1.2362	2 <sup>b</sup> 3.8 <sup>m</sup>	1.3032	1 <sup>b</sup> 45.1 <sup>m</sup>	0.5868	+3.862
25.5	0.8997	2.273	1.2376	2 3.5	1.3038	1 41.3	0.5722	3.734
26.5	0.9025	2.282	1.2391	2 3.2	1.3043	1 37.5	0.5570	3.606
27.5	0.9052	2.292	1.2406	2 3.0	1.3048	1 33.6	0.5412	3.477
28.5	0.9079	2.301	1.2421	2 2.7	1.3052	1 29.8	0.5245	3.346
29.5	0.9107	2.311	1.2435	2 2.4	1.3057	1 26.0	0.5070	3.214
30.5	0.9134	+2.320	1.2450	2 2.1	1.3061	1 22.2	0.4887	+3.081
Dez. 1.5	0.9161	2.330	1.2465	2 1.8	1.3066	1 18.4	0.4694	2.947
2.5	0.9189	2.340	1.2479	2 1.5	1.3070	1 14.6	0.4490	2.812
3.5	0.9216	2.349	1.2494	2 1.2	1.3074	1 10.8	0.4275	2.676
4.5	0.9244	2.359	1.2509	2 0.8	1.3077	1 7.0	0.4048	2.540
5.5	0.9271	2.369	1.2523	2 0.5	1.3081	1 3.2	0.3806	2.402
6.5	0.9298	+2.379	1.2537	2 0.2	1.3084	0 59.5	0.3549	+2.264
7.5	0.9326	2.389	1.2552	1 59.8	1.3088	0 55.7	0.3274	2.125
8.5	0.9353	2.399	1.2567	1 59.5	1.3091	0 51.9	0.2978	1.985
9.5	0.9381	2.409	1.2581	1 59.1	1.3094	0 48.2	0.2660	1.845
10.5	0.9408	2.420	1.2595	1 58.8	1.3096	0 44.4	0.2315	1.704
11.5	0.9435	2.430	1.2609	1 58.4	1.3099	0 40.7	0.1940	1.563
12.5	0.9463	+2.440	1.2624	1 58.0	1.3101	0 36.9	0.1523	+1.420
13.5	0.9490	2.450	1.2638	1 57.6	1.3103	0 33.2	0.1062	1.277
14.5	0.9517	2.461	1.2652	1 57.2	1.3104	0 29.4	0.0546	1.134
15.5	0.9545	2.471	1.2666	1 56.8	1.3106	0 25.7	9.9961	0.991
16.5	0.9572	2.481	1.2680	1 56.4	1.3107	0 21.9	9.9279	0.847
17.5	0.9600	2.492	1.2694	1 56.0	1.3109	0 18.2	9.8470	0.703
18.5	0.9627	+2.502	1.2708	1 55.6	1.3109	0 14.4	9.7474	+0.559
19.5	0.9654	2.513	1.2722	1 55.2	1.3110	0 10.7	9.6180	0.415
20.5	0.9682	2.523	1.2736	1 54.8	1.3111	0 7.0	9.4314	0.270
21.5	0.9709	2.534	1.2749	1 54.4	1.3111	0 3.2	9.0969	+0.125
22.5	0.9736	2.544	1.2762	1 53.9	1.3111	23 59.5	8.3010 <sub>n</sub>	-0.020
23.5	0.9764	2.555	1.2776	1 53.5	1.3111	23 55.7	9.2148 <sub>n</sub>	0.164
24.5	0.9791	+2.565	1.2789	1 53.0	1.3111	23 52.0	9.4900 <sub>n</sub>	-0.309
25.5	0.9819	2.575	1.2802	1 52.6	1.3110	23 48.3	9.6571 <sub>n</sub>	0.454
26.5	0.9846	2.586	1.2815	1 52.1	1.3109	23 44.5	9.7774 <sub>n</sub>	0.599
27.5	0.9873	2.596	1.2828	1 51.7	1.3108	23 40.8	9.8710 <sub>n</sub>	0.743
28.5	0.9901	2.607	1.2841	1 51.2	1.3107	23 37.0	9.9479 <sub>n</sub>	0.887
29.5	0.9928	2.617	1.2853	1 50.8	1.3106	23 33.3	0.0133 <sub>n</sub>	1.031
30.5	0.9955	+2.628	1.2866	1 50.3	1.3104	23 29.5	0.0700 <sub>n</sub>	-1.175
31.5	0.9983	2.638	1.2878	1 49.8	1.3102	23 25.8	0.1199 <sub>n</sub>	1.318
32.5	1.0010	2.648	1.2891	1 49.3	1.3100	23 22.0	0.1647 <sub>n</sub>	1.461
33.5	1.0038	2.658	1.2903	1 48.8	1.3098	23 18.3	0.2049 <sub>n</sub>	1.603
34.5	1.0065	2.669	1.2915	1 48.4	1.3095	23 14.5	0.2418 <sub>n</sub>	1.745
35.5	1.0092	2.679	1.2927	1 47.9	1.3093	23 10.7	0.2755 <sub>n</sub>	1.886

# Reduktionsgrößen 1923

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Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1923.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1923	in $0.001$	in $0.01$				in $0.01$	$23^\circ 26'$		in $0.01$
Nov. 24.5	- 7	+ 7	8.6	+45.08	-8.05	-12	48.15	-8.86	- 6
25.5	- 4	8	7.4	45.22	8.04	- 7	48.12	8.87	- 7
26.5	0	7	6.1	45.36	8.03	0	48.11	8.88	- 7
27.5	+ 3	6	4.6	45.49	8.01	+ 5	48.11	8.89	- 6
28.5	+ 6	5	2.4	45.63	8.00	+ 9	48.13	8.91	- 3
29.5	+ 6	4	23.3	45.77	7.98	+10	48.15	8.92	+ 1
30.5	+ 5	+ 5	20.3	+45.91	-7.96	+ 7	48.17	-8.93	+ 4
Dez. 1.5	+ 1	7	18.3	46.05	7.94	+ 1	48.18	8.94	+ 7
2.5	- 4	8	16.8	46.18	7.92	- 7	48.18	8.95	+ 8
3.5	- 9	9	15.3	46.32	7.89	-15	48.16	8.96	+ 7
4.5	-12	9	13.9	46.46	7.87	-20	48.13	8.97	+ 4
5.5	-13	8	12.2	46.60	7.84	-21	48.08	8.97	0
6.5	-10	+ 8	10.3	+46.73	-7.82	-17	48.04	-8.98	- 3
7.5	- 6	7	8.0	46.87	7.79	- 9	48.00	8.99	- 6
8.5	+ 1	8	5.7	47.01	7.76	+ 2	47.98	8.99	- 8
9.5	+ 7	9	3.8	47.15	7.74	+12	47.97	9.00	- 7
10.5	+12	10	2.1	47.28	7.71	+20	47.99	9.00	- 5
11.5	+15	10	0.9	47.42	7.68	+25	48.02	9.01	- 2
12.5	+15	+10	23.4	+47.56	-7.65	+25	48.05	-9.01	+ 2
13.5	+13	10	22.1	47.70	7.62	+21	48.07	9.01	+ 4
14.5	+ 9	9	20.8	47.83	7.58	+14	48.09	9.02	+ 6
15.5	+ 4	7	19.4	47.97	7.55	+ 7	48.09	9.02	+ 7
16.5	- 1	6	17.7	48.11	7.52	- 1	48.08	9.02	+ 6
17.5	- 5	6	15.7	48.25	7.49	- 8	48.06	9.02	+ 5
18.5	- 8	+ 6	13.6	+48.38	-7.45	-13	48.04	-9.02	+ 2
19.5	- 9	6	11.5	48.52	7.42	-15	48.01	9.02	0
20.5	- 9	7	10.2	48.66	7.39	-15	47.99	9.01	- 3
21.5	- 8	7	8.9	48.80	7.35	-12	47.97	9.01	- 5
22.5	- 5	7	7.6	48.94	7.32	- 7	47.95	9.01	- 7
23.5	- 1	7	6.3	49.07	7.28	- 1	47.95	9.00	- 7
24.5	+ 3	+ 6	4.8	+49.21	-7.25	+ 5	47.97	-9.00	- 6
25.5	+ 6	5	3.0	49.35	7.22	+10	48.00	8.99	- 4
26.5	+ 7	5	0.3	49.49	7.19	+12	48.03	8.99	0
27.5	+ 6	5	21.6	49.62	7.15	+10	48.07	8.98	+ 3
28.5	+ 3	6	19.2	49.76	7.12	+ 5	48.11	8.97	+ 6
29.5	- 2	8	17.5	49.90	7.09	- 3	48.13	8.96	+ 8
30.5	- 7	+ 9	15.9	+50.04	-7.05	-11	48.14	-8.95	+ 7
31.5	-11	9	14.5	50.17	7.02	-18	48.13	8.94	+ 5
32.5	-13	9	12.9	50.31	6.99	-21	48.10	8.93	+ 2
33.5	-12	8	11.0	50.45	6.96	-20	48.07	8.92	- 2
34.5	- 8	8	9.0	50.59	6.93	-14	48.05	8.91	- 5
35.5	- 2	8	6.8	50.72	6.90	- 4	48.04	8.90	- 7



Mittlere Zeit Greenwich	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1923							
Jan. 0.723	-0.0004	-0.02639	-275	+9.790	+61	-3.192	+20.172
1.720	+0.0023	0.02308	331	-130	9.782	327	20.107
2.717	0.0050	0.01978	330	+34	9.774	327	20.036
3.714	0.0078	0.01649	329	+182	9.765	325	19.958
4.712	0.0105	0.01321	328	+276	9.755	325	19.874
5.709	0.0132	0.00995	326	+292	9.744	323	19.784
6.706	0.0159	-0.00671	324	+223	9.733	321	19.688
7.704	0.0187	0.00349	322	+92	9.721	319	19.586
8.701	0.0214	-0.00029	320	-70	9.709	318	19.477
9.698	0.0241	+0.00290	319	-216	9.696	316	19.363
10.695	0.0269	0.00607	317	-300	9.682	314	19.242
11.693	0.0296	0.00922	315	-299	9.667	312	19.115
12.690	0.0323	+0.01234	312	-299	9.667	310	19.115
13.687	0.0351	0.01544	310	-215	9.652	308	+18.982
14.684	0.0378	0.01852	308	-66	9.637	306	18.844
15.682	0.0405	0.02157	305	+109	9.622	303	18.699
16.679	0.0432	0.02459	302	+271	9.606	300	18.548
17.676	0.0460	0.02760	301	+381	9.590	297	18.391
18.674	0.0487	+0.03058	298	+426	9.573	295	18.229
19.671	0.0514	0.03353	295	+401	9.555	292	+18.061
20.668	0.0542	0.03645	292	+314	9.537	289	17.887
21.665	0.0569	0.03934	289	+187	9.519	287	17.708
22.663	0.0596	0.04221	287	+36	9.500	283	17.523
23.660	0.0624	0.04504	283	-115	9.481	280	17.333
24.657	0.0651	+0.04784	280	-249	9.462	276	17.138
25.654	0.0678	0.05061	277	-354	9.442	273	+16.938
26.652	0.0705	0.05336	275	-408	9.422	270	16.732
27.649	0.0733	0.05608	272	-405	9.402	267	16.520
28.646	0.0760	0.05876	272	-337	9.382	263	16.303
29.643	0.0787	0.06140	264	-214	9.362	259	16.082
30.641	0.0815	+0.06402	262	-57	9.341	255	15.856
31.638	0.0842	0.06661	259	+106	9.320	251	+15.625
Febr. 1.635	0.0869	0.06916	255	+229	9.299	247	15.388
2.633	0.0897	0.07168	252	+287	9.278	244	15.147
3.630	0.0924	0.07416	248	+264	9.256	239	14.902
4.627	0.0951	0.07662	246	+163	9.235	235	14.652
5.624	0.0979	+0.07904	242	+16	9.214	232	14.398
6.622	0.1006	0.08143	239	-136	9.194	226	+14.139
7.619	0.1033	0.08378	235	-246	9.173	222	13.876
8.616	0.1060	0.08611	233	-282	9.151	217	13.608
9.613	0.1088	0.08840	229	-233	9.130	214	13.337
10.611	0.1115	0.09065	225	-109	9.109	209	13.061
				+57	9.089		12.781

# Reduktionsgrößen 1923

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für 12<sup>h</sup> Sternzeit Greenwich

Mittlere Zeit Greenwich	t	A	A'	B	B'	C	D		
<b>1923</b>									
Febr.	10.611	0.1115	+0.09065 223	+ 57	+9.089 20	+74	-14.668 204	+12.781 284	
	11.608	0.1142	0.09288 221	+224	9.069 20	+71	14.872 200	12.497 287	
	12.605	0.1170	0.09509 217	+357	9.049 21	+54	15.072 195	12.210 290	
	13.603	0.1197	0.09726 214	+426	9.028 20	+24	15.267 189	11.920 295	
	14.600	0.1224	0.09940 210	+424	9.008 20	- 6	15.456 185	11.625 298	
	15.597	0.1252	0.10150 208	+358	8.988 19	-35	15.641 180	11.327 302	
	16.594	0.1279	+0.10358 204	+240	+8.969 19	-54	-15.821 176	+11.025 304	
	17.592	0.1306	0.10562 201	+ 96	8.950 19	-64	15.997 170	10.721 307	
	18.589	0.1333	0.10763 199	- 57	8.931 19	-64	16.167 165	10.414 311	
	19.586	0.1361	0.10962 196	-202	8.912 18	-54	16.332 160	10.103 314	
	20.583	0.1388	0.11158 194	-320	8.894 17	-35	16.492 155	9.789 317	
	21.581	0.1415	0.11352 191	-397	8.877 17	-10	16.647 150	9.472 319	
	22.578	0.1443	+0.11543 188	-420	+8.860 16	+18	-16.797 145	+ 9.153 322	
	23.575	0.1470	0.11731 186	-386	8.844 17	+43	16.942 139	8.831 325	
	24.573	0.1497	0.11917 183	-290	8.827 17	+64	17.081 134	8.506 327	
	25.570	0.1525	0.12100 182	-147	8.810 16	+73	17.215 129	8.179 329	
	26.567	0.1552	0.12282 179	+ 11	8.794 15	+66	17.344 123	7.850 332	
	27.564	0.1579	0.12461 177	+152	8.779 15	+45	17.467 118	7.518 334	
	28.562	0.1607	+0.12638 174	+241	+8.764 14	+11	-17.585 112	+ 7.184 336	
	März	1.559	0.1634	0.12812 173	+254	8.750 13	-26	17.697 107	6.848 338
		2.556	0.1661	0.12985 171	+191	8.737 12	-57	17.804 102	6.510 339
		3.553	0.1688	0.13156 169	+ 65	8.725 12	-75	17.906 96	6.171 341
		4.551	0.1716	0.13325 167	- 81	8.713 12	-75	18.002 90	5.830 343
		5.548	0.1743	0.13492 165	-204	8.701 12	-55	18.092 85	5.487 344
		6.545	0.1770	+0.13657 164	-267	+8.689 11	-22	-18.177 79	+ 5.143 346
		7.542	0.1798	0.13821 163	-246	8.678 10	+16	18.256 74	4.797 348
		8.540	0.1825	0.13984 161	-147	8.668 10	+50	18.330 68	4.449 348
9.537		0.1852	0.14145 160	+ 11	8.658 9	+71	18.398 63	4.101 349	
10.534		0.1880	0.14305 159	+185	8.649 7	+74	18.461 57	3.752 350	
11.532		0.1907	0.14464 158	+334	8.642 7	+62	18.518 52	3.402 351	
12.529		0.1934	+0.14622 157	+431	+8.635 7	+36	-18.570 46	+ 3.051 352	
13.526		0.1961	0.14779 156	+455	8.628 6	+ 5	18.616 40	2.699 352	
14.523		0.1989	0.14935 156	+411	8.622 6	-25	18.656 34	2.347 353	
15.521		0.2016	0.15091 155	+309	8.616 5	-48	18.690 28	1.994 353	
16.518		0.2043	0.15246 155	+167	8.611 5	-63	18.718 23	1.641 354	
17.515		0.2071	0.15401 153	+ 15	8.606 3	-66	18.741 18	1.287 354	
18.512		0.2098	+0.15554 153	-136	+8.603 3	-60	-18.759 12	+ 0.933 354	
19.510		0.2125	0.15707 154	-267	8.600 2	-45	18.771 7	0.579 354	
20.507		0.2153	0.15861 154	-361	8.598 2	-21	18.778 1	+ 0.225 354	
21.504		0.2180	0.16015 154	-408	8.596 1	+ 5	18.779 4	- 0.129 353	
22.502		0.2207	0.16169 154	-399	8.595 1	+33	18.775 11	0.482 353	
23.499		0.2235	0.16323	-333	8.594	+56	18.764	0.835	

Mittlere Zeit Greenwich	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1923							
März 23.499	0.2235	+0.16323	-333	+8.594	+56	-18.764	-0.835
24.496	0.2262	0.16477	-214	8.595	+71	18.748	1.188
25.493	0.2289	0.16631	-68	8.596	+72	18.726	1.540
26.491	0.2316	0.16786	+77	8.597	+54	18.699	1.891
27.488	0.2344	0.16941	+182	8.599	+27	18.666	2.242
28.485	0.2371	0.17097	+222	8.602	-11	18.628	2.592
29.482	0.2398	+0.17254	+186	+8.607	-45	-18.584	-2.941
30.480	0.2426	0.17412	+83	8.611	-69	18.535	3.288
31.477	0.2453	0.17570	-58	8.616	-77	18.480	3.635
April 1.474	0.2480	0.17730	-190	8.622	-65	18.420	3.981
2.472	0.2508	0.17891	-275	8.628	-37	18.355	4.325
3.469	0.2535	0.18053	-282	8.635	0	18.284	4.667
4.466	0.2562	+0.18216	-202	+8.642	+37	-18.208	-5.008
5.463	0.2589	0.18381	-54	8.649	+64	18.127	5.347
6.461	0.2617	0.18548	+127	8.657	+76	18.040	5.685
7.458	0.2644	0.18716	+301	8.666	+71	17.948	6.020
8.455	0.2671	0.18885	+425	8.676	+49	17.851	6.354
9.452	0.2699	0.19057	+482	8.686	+20	17.748	6.686
10.450	0.2726	+0.19231	+465	+8.696	-12	-17.641	-7.016
11.447	0.2753	0.19406	+380	8.707	-40	17.529	7.343
12.444	0.2781	0.19583	+249	8.719	-59	17.412	7.667
13.441	0.2808	0.19762	+97	8.731	-66	17.289	7.990
14.439	0.2835	0.19943	-60	8.743	-63	17.162	8.310
15.436	0.2863	0.20127	-199	8.756	-50	17.029	8.628
16.433	0.2890	+0.20313	-308	+8.770	-30	-16.892	-8.943
17.431	0.2917	0.20501	-373	8.783	-5	16.750	9.255
18.428	0.2944	0.20691	-387	8.796	+23	16.604	9.564
19.425	0.2972	0.20884	-345	8.810	+49	16.452	9.870
20.422	0.2999	0.21079	-249	8.824	+66	16.295	10.173
21.420	0.3026	0.21276	-117	8.839	+73	16.134	10.473
22.417	0.3054	+0.21477	+24	+8.854	+62	-15.969	-10.770
23.414	0.3081	0.21681	+139	8.869	+39	15.799	11.064
24.411	0.3108	0.21887	+201	8.884	+6	15.625	11.355
25.409	0.3136	0.22095	+189	8.900	-31	15.447	11.642
26.406	0.3163	0.22306	+101	8.916	-61	15.264	11.925
27.403	0.3190	0.22519	-35	8.932	-76	15.076	12.205
28.401	0.3217	+0.22736	-180	+8.948	-73	-14.884	-12.481
29.398	0.3245	0.22956	-291	8.965	-51	14.688	12.754
30.395	0.3272	0.23178	-330	8.982	-16	14.489	13.023
Mai 1.392	0.3299	0.23403	-282	8.998	+21	14.285	13.288
2.390	0.3327	0.23631	-154	9.015	+54	14.077	13.548
3.387	0.3354	0.23861	+29	9.032	+73	13.866	13.805



# Reduktionsgrößen 1923

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für 12<sup>h</sup> Sternzeit Greenwich

Mittlere Zeit Greenwich	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>		
1923									
Mai	3.387	0.3354	+0.23861 <sub>233</sub>	+ 29	+9.032 <sub>17</sub>	+73	-13.866 <sub>216</sub>	-13.805 <sub>253</sub>	
	4.384	0.3381	0.24094 <sub>237</sub>	+222	9.049 <sub>17</sub>	+73	13.650 <sub>220</sub>	14.058 <sub>249</sub>	
	5.381	0.3409	0.24331 <sub>239</sub>	+379	9.066 <sub>17</sub>	+57	13.430 <sub>223</sub>	14.307 <sub>244</sub>	
	6.379	0.3436	0.24570 <sub>242</sub>	+477	9.083 <sub>17</sub>	+31	13.207 <sub>227</sub>	14.551 <sub>241</sub>	
	7.376	0.3463	0.24812 <sub>245</sub>	+495	9.100 <sub>16</sub>	0	12.980 <sub>230</sub>	14.792 <sub>236</sub>	
	8.373	0.3491	0.25057 <sub>247</sub>	+438	9.116 <sub>17</sub>	-29	12.750 <sub>233</sub>	15.028 <sub>232</sub>	
	9.370	0.3518	+0.25304 <sub>250</sub>	+325	+9.133 <sub>16</sub>	-53	-12.517 <sub>237</sub>	-15.260 <sub>227</sub>	
	10.368	0.3545	0.25554 <sub>254</sub>	+179	9.149 <sub>17</sub>	-65	12.280 <sub>241</sub>	15.487 <sub>223</sub>	
	11.365	0.3572	0.25808 <sub>256</sub>	+ 21	9.166 <sub>16</sub>	-64	12.039 <sub>244</sub>	15.710 <sub>218</sub>	
	12.362	0.3600	0.26064 <sub>259</sub>	-130	9.182 <sub>16</sub>	-56	11.795 <sub>247</sub>	15.928 <sub>213</sub>	
	13.360	0.3627	0.26323 <sub>261</sub>	-249	9.198 <sub>15</sub>	-38	11.548 <sub>250</sub>	16.141 <sub>210</sub>	
	14.357	0.3654	0.26584 <sub>264</sub>	-335	9.213 <sub>16</sub>	-15	11.298 <sub>254</sub>	16.351 <sub>204</sub>	
	15.354	0.3682	+0.26848 <sub>267</sub>	-366	+9.229 <sub>16</sub>	+12	-11.044 <sub>256</sub>	-16.555 <sub>200</sub>	
	16.351	0.3709	0.27115 <sub>269</sub>	-343	9.245 <sub>15</sub>	+39	10.788 <sub>259</sub>	16.755 <sub>195</sub>	
	17.349	0.3736	0.27384 <sub>272</sub>	-266	9.260 <sub>15</sub>	+60	10.529 <sub>262</sub>	16.950 <sub>189</sub>	
	18.346	0.3764	0.27656 <sub>274</sub>	-145	9.275 <sub>14</sub>	+72	10.267 <sub>265</sub>	17.139 <sub>185</sub>	
	19.343	0.3791	0.27930 <sub>277</sub>	- 6	9.289 <sub>14</sub>	+67	10.002 <sub>268</sub>	17.324 <sub>181</sub>	
	20.340	0.3818	0.28207 <sub>279</sub>	+121	9.303 <sub>15</sub>	+51	9.734 <sub>270</sub>	17.505 <sub>175</sub>	
	21.338	0.3845	+0.28486 <sub>282</sub>	+203	+9.318 <sub>14</sub>	+22	- 9.464 <sub>273</sub>	-17.680 <sub>170</sub>	
	22.335	0.3873	0.28768 <sub>284</sub>	+214	9.332 <sub>14</sub>	-16	9.191 <sub>275</sub>	17.850 <sub>165</sub>	
	23.332	0.3900	0.29052 <sub>286</sub>	+150	9.346 <sub>13</sub>	-50	8.916 <sub>277</sub>	18.015 <sub>160</sub>	
	24.330	0.3927	0.29338 <sub>288</sub>	+ 22	9.359 <sub>13</sub>	-72	8.639 <sub>280</sub>	18.175 <sub>154</sub>	
	25.327	0.3955	0.29626 <sub>290</sub>	-135	9.372 <sub>12</sub>	-77	8.359 <sub>282</sub>	18.329 <sub>150</sub>	
	26.324	0.3982	0.29916 <sub>292</sub>	-276	9.384 <sub>12</sub>	-62	8.077 <sub>285</sub>	18.479 <sub>144</sub>	
	27.321	0.4009	+0.30208 <sub>295</sub>	-358	+9.396 <sub>12</sub>	-32	- 7.792 <sub>287</sub>	-18.623 <sub>140</sub>	
	28.319	0.4037	0.30503 <sub>297</sub>	-352	9.408 <sub>11</sub>	+ 5	7.505 <sub>288</sub>	18.763 <sub>134</sub>	
	29.316	0.4064	0.30800 <sub>299</sub>	-256	9.419 <sub>11</sub>	+42	7.217 <sub>290</sub>	18.897 <sub>129</sub>	
	30.313	0.4091	0.31099 <sub>301</sub>	- 91	9.430 <sub>10</sub>	+67	6.927 <sub>292</sub>	19.026 <sub>123</sub>	
	31.310	0.4118	0.31400 <sub>302</sub>	+108	9.440 <sub>9</sub>	+75	6.635 <sub>294</sub>	19.149 <sub>118</sub>	
	Juni	1.308	0.4146	0.31702 <sub>304</sub>	+293	9.449 <sub>9</sub>	+66	6.341 <sub>296</sub>	19.267 <sub>113</sub>
		2.305	0.4173	+0.32006 <sub>305</sub>	+425	+9.458 <sub>9</sub>	+42	- 6.045 <sub>297</sub>	-19.380 <sub>107</sub>
		3.302	0.4200	0.32311 <sub>307</sub>	+486	9.467 <sub>9</sub>	+12	5.748 <sub>298</sub>	19.487 <sub>102</sub>
4.300		0.4228	0.32618 <sub>308</sub>	+466	9.476 <sub>9</sub>	-20	5.450 <sub>300</sub>	19.589 <sub>96</sub>	
5.297		0.4255	0.32926 <sub>310</sub>	+379	9.485 <sub>8</sub>	-45	5.150 <sub>302</sub>	19.685 <sub>91</sub>	
6.294		0.4282	0.33236 <sub>312</sub>	+245	9.493 <sub>6</sub>	-62	4.848 <sub>303</sub>	19.776 <sub>85</sub>	
7.291		0.4310	0.33548 <sub>312</sub>	+ 89	9.499 <sub>5</sub>	-66	4.545 <sub>304</sub>	19.861 <sub>80</sub>	
8.289		0.4337	+0.33860 <sub>314</sub>	- 64	+9.504 <sub>5</sub>	-60	- 4.241 <sub>305</sub>	-19.941 <sub>74</sub>	
9.286		0.4364	0.34174 <sub>315</sub>	-198	9.509 <sub>5</sub>	-45	3.936 <sub>306</sub>	20.015 <sub>69</sub>	
10.283		0.4392	0.34489 <sub>315</sub>	-296	9.514 <sub>5</sub>	-22	3.630 <sub>307</sub>	20.084 <sub>63</sub>	
11.280		0.4419	0.34804 <sub>317</sub>	-344	9.519 <sub>4</sub>	+ 3	3.323 <sub>308</sub>	20.147 <sub>57</sub>	
12.278		0.4446	0.35121 <sub>318</sub>	-345	9.523 <sub>3</sub>	+30	3.015 <sub>308</sub>	20.204 <sub>52</sub>	
13.275		0.4473	0.35439	-286	9.526	+53	2.707	20.256	

## Reduktionsgrößen 1923

für 12<sup>h</sup> Sternzeit Greenwich

Mittlere Zeit Greenwich	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1923							
Juni 13.275	0.4473	+0.35439	-286	+9.526	+53	-2.707	-20.256
14.272	0.4501	0.35757	-178	9.528	+68	2.397	20.303
15.269	0.4528	0.36075	-41	9.530	+71	2.087	20.344
16.267	0.4555	0.36395	+100	9.532	+59	1.777	20.378
17.264	0.4583	0.36715	+204	9.533	+34	1.466	20.407
18.261	0.4610	0.37035	+247	9.534	0	1.155	20.431
19.259	0.4637	+0.37356	+214	+9.534	-37	-0.843	-20.449
20.256	0.4665	0.37677	+106	9.532	-64	0.532	20.461
21.253	0.4692	0.37998	-51	9.530	-78	-0.220	20.468
22.250	0.4719	0.38319	-212	9.528	-72	+0.092	20.469
23.248	0.4746	0.38639	-334	9.526	-46	0.404	20.465
24.245	0.4774	0.38960	-378	9.523	-12	0.716	20.456
25.242	0.4801	+0.39280	-325	+9.518	+27	+1.027	-20.440
26.239	0.4828	0.39601	-192	9.513	+57	1.338	20.418
27.237	0.4856	0.39921	-6	9.507	+73	1.649	20.391
28.234	0.4883	0.40240	+187	9.501	+73	1.959	20.359
29.231	0.4910	0.40559	+351	9.495	+54	2.269	20.320
30.229	0.4938	0.40877	+445	9.488	+27	2.578	20.276
Juli 1.226	0.4965	+0.41195	+463	+9.481	-7	+2.886	-20.227
2.223	0.4992	0.41512	+404	9.473	-36	3.193	20.172
3.220	0.5020	0.41827	+290	9.463	-57	3.500	20.111
4.218	0.5047	0.42140	+145	9.453	-67	3.806	20.045
5.215	0.5074	0.42453	-9	9.443	-64	4.111	19.974
6.212	0.5101	0.42765	-151	9.433	-52	4.414	19.897
7.209	0.5129	+0.43076	-263	+9.422	-34	+4.716	-19.814
8.207	0.5156	0.43385	-334	9.410	-8	5.017	19.726
9.204	0.5183	0.43693	-353	9.398	+19	5.317	19.632
10.201	0.5211	0.44000	-316	9.386	+44	5.615	19.533
11.199	0.5238	0.44306	-224	9.373	+63	5.911	19.429
12.196	0.5265	0.44610	-96	9.360	+73	6.206	19.319
13.193	0.5293	+0.44911	+49	+9.346	+66	+6.500	-19.204
14.190	0.5320	0.45211	+178	9.331	+45	6.791	19.083
15.188	0.5347	0.45509	+256	9.316	+14	7.081	18.958
16.185	0.5374	0.45805	+260	9.301	-22	7.369	18.828
17.182	0.5402	0.46099	+185	9.285	-54	7.655	18.692
18.179	0.5429	0.46392	+47	9.268	-74	7.938	18.551
19.177	0.5456	+0.46683	-116	+9.251	-76	+8.219	-18.405
20.174	0.5484	0.46971	-261	9.234	-59	8.499	18.253
21.171	0.5511	0.47257	-348	9.218	-27	8.776	18.096
22.168	0.5538	0.47541	-346	9.200	+11	9.051	17.935
23.166	0.5566	0.47822	-252	9.182	+47	9.323	17.769
24.163	0.5593	0.48101	-91	9.164	+70	9.593	17.598

# Reduktionsgrößen 1923

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für 12<sup>h</sup> Sternzeit Greenwich

Mittlere Zeit Greenwich	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>		
1923									
Juli	24.163	0.5593	+0.48101 <sub>277</sub>	- 91	+9.164 <sub>19</sub>	+70	+ 9.593 <sub>267</sub>	-17.598 <sub>176</sub>	
	25.160	0.5620	0.48378 <sub>274</sub>	+100	9.145 <sub>19</sub>	+76	9.860 <sub>264</sub>	17.422 <sub>182</sub>	
	26.158	0.5648	0.48652 <sub>271</sub>	+276	9.126 <sub>19</sub>	+64	10.124 <sub>262</sub>	17.240 <sub>186</sub>	
	27.155	0.5675	0.48923 <sub>269</sub>	+398	9.107 <sub>19</sub>	+39	10.386 <sub>259</sub>	17.054 <sub>190</sub>	
	28.152	0.5702	0.49192 <sub>267</sub>	+447	9.088 <sub>20</sub>	+ 6	10.645 <sub>256</sub>	16.864 <sub>195</sub>	
	29.149	0.5729	0.49459 <sub>264</sub>	+418	9.068 <sub>20</sub>	-24	10.901 <sub>253</sub>	16.669 <sub>200</sub>	
	30.147	0.5757	+0.49723 <sub>262</sub>	+325	+9.048 <sub>20</sub>	-50	+11.154 <sub>250</sub>	-16.469 <sub>205</sub>	
	31.144	0.5784	0.49985 <sub>259</sub>	+191	9.028 <sub>20</sub>	-64	11.404 <sub>246</sub>	16.264 <sub>209</sub>	
	Aug.	1.141	0.5811	0.50244 <sub>256</sub>	+ 38	9.008 <sub>21</sub>	-67	11.650 <sub>244</sub>	16.055 <sub>214</sub>
		2.138	0.5839	0.50500 <sub>253</sub>	-109	8.987 <sub>21</sub>	-58	11.894 <sub>241</sub>	15.841 <sub>218</sub>
		3.136	0.5866	0.50753 <sub>251</sub>	-233	8.966 <sub>21</sub>	-41	12.135 <sub>237</sub>	15.623 <sub>223</sub>
		4.133	0.5893	0.51004 <sub>248</sub>	-319	8.945 <sub>20</sub>	-17	12.372 <sub>234</sub>	15.400 <sub>227</sub>
		5.130	0.5921	+0.51252 <sub>246</sub>	-358	+8.925 <sub>21</sub>	+ 9	+12.606 <sub>230</sub>	-15.173 <sub>231</sub>
		6.128	0.5948	0.51498 <sub>242</sub>	-344	8.904 <sub>21</sub>	+35	12.836 <sub>227</sub>	14.942 <sub>236</sub>
7.125		0.5975	0.51740 <sub>240</sub>	-278	8.883 <sub>21</sub>	+57	13.063 <sub>223</sub>	14.706 <sub>240</sub>	
8.122		0.6002	0.51980 <sub>238</sub>	-162	8.862 <sub>21</sub>	+70	13.286 <sub>219</sub>	14.466 <sub>243</sub>	
9.119		0.6030	0.52218 <sub>235</sub>	- 21	8.841 <sub>20</sub>	+70	13.505 <sub>216</sub>	14.223 <sub>248</sub>	
10.117		0.6057	0.52453 <sub>232</sub>	+119	8.821 <sub>21</sub>	+55	13.721 <sub>212</sub>	13.975 <sub>251</sub>	
11.114		0.6084	+0.52685 <sub>230</sub>	+223	+8.800 <sub>21</sub>	+28	+13.933 <sub>208</sub>	-13.724 <sub>256</sub>	
12.111		0.6112	0.52915 <sub>226</sub>	+263	8.779 <sub>21</sub>	- 7	14.141 <sub>205</sub>	13.468 <sub>260</sub>	
13.108		0.6139	0.53141 <sub>223</sub>	+228	8.758 <sub>21</sub>	-42	14.346 <sub>201</sub>	13.208 <sub>263</sub>	
14.106		0.6166	0.53364 <sub>220</sub>	+122	8.737 <sub>21</sub>	-68	14.547 <sub>196</sub>	12.945 <sub>266</sub>	
15.103	0.6194	0.53584 <sub>217</sub>	- 29	8.716 <sub>21</sub>	-78	14.743 <sub>193</sub>	12.679 <sub>271</sub>		
16.100	0.6221	0.53801 <sub>215</sub>	-184	8.695 <sub>20</sub>	-69	14.936 <sub>188</sub>	12.408 <sub>274</sub>		
17.097	0.6248	+0.54016 <sub>213</sub>	-294	+8.675 <sub>20</sub>	-43	+15.124 <sub>184</sub>	-12.134 <sub>278</sub>		
18.095	0.6276	0.54229 <sub>210</sub>	-329	8.655 <sub>20</sub>	- 6	15.308 <sub>180</sub>	11.856 <sub>281</sub>		
19.092	0.6303	0.54439 <sub>207</sub>	-273	8.635 <sub>19</sub>	+33	15.488 <sub>177</sub>	11.575 <sub>285</sub>		
20.089	0.6330	0.54646 <sub>205</sub>	-139	8.616 <sub>20</sub>	+62	15.665 <sub>171</sub>	11.290 <sub>288</sub>		
21.087	0.6357	0.54851 <sub>202</sub>	+ 42	8.596 <sub>19</sub>	+76	15.836 <sub>167</sub>	11.002 <sub>291</sub>		
22.084	0.6385	0.55053 <sub>200</sub>	+223	8.577 <sub>20</sub>	+72	16.003 <sub>162</sub>	10.711 <sub>294</sub>		
23.081	0.6412	+0.55253 <sub>198</sub>	+365	+8.557 <sub>19</sub>	+51	+16.165 <sub>158</sub>	-10.417 <sub>297</sub>		
24.078	0.6439	0.55451 <sub>195</sub>	+442	8.538 <sub>18</sub>	+20	16.323 <sub>154</sub>	10.120 <sub>300</sub>		
25.076	0.6467	0.55646 <sub>193</sub>	+438	8.520 <sub>18</sub>	-13	16.477 <sub>149</sub>	9.820 <sub>303</sub>		
26.073	0.6494	0.55839 <sub>190</sub>	+366	8.502 <sub>18</sub>	-41	16.626 <sub>145</sub>	9.517 <sub>306</sub>		
27.070	0.6521	0.56029 <sub>188</sub>	+240	8.484 <sub>18</sub>	-60	16.771 <sub>139</sub>	9.211 <sub>309</sub>		
28.067	0.6549	0.56217 <sub>185</sub>	+ 89	8.466 <sub>17</sub>	-68	16.910 <sub>135</sub>	8.902 <sub>311</sub>		
29.065	0.6576	+0.56402 <sub>184</sub>	- 62	+8.449 <sub>17</sub>	-63	+17.045 <sub>130</sub>	- 8.591 <sub>314</sub>		
30.062	0.6603	0.56586 <sub>182</sub>	-195	8.432 <sub>16</sub>	-49	17.175 <sub>126</sub>	8.277 <sub>316</sub>		
31.059	0.6630	0.56768 <sub>180</sub>	-295	8.416 <sub>16</sub>	-28	17.301 <sub>120</sub>	7.961 <sub>319</sub>		
Sept.	1.057	0.6658	0.56948 <sub>178</sub>	-355	8.400 <sub>16</sub>	- 3	17.421 <sub>115</sub>	7.642 <sub>321</sub>	
	2.054	0.6685	0.57126 <sub>175</sub>	-364	8.384 <sub>15</sub>	+24	17.536 <sub>111</sub>	7.321 <sub>323</sub>	
	3.051	0.6712	0.57301	-321	8.369	+48	17.647	6.998	



Mittlere Zeit Greenwich	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1923							
Sept. 3.051	0.6712	+0.5730 <sup>174</sup>	-321	+8.369 <sup>14</sup>	+48	+17.647 <sup>106</sup>	-6.998 <sup>325</sup>
4.048	0.6740	0.57475 <sup>172</sup>	-227	8.355 <sup>13</sup>	+65	17.753 <sup>101</sup>	6.673 <sup>328</sup>
5.046	0.6767	0.57647 <sup>171</sup>	-101	8.342 <sup>14</sup>	+71	17.854 <sup>95</sup>	6.345 <sup>330</sup>
6.043	0.6794	0.57818 <sup>169</sup>	+39	8.328 <sup>13</sup>	+63	17.949 <sup>91</sup>	6.015 <sup>331</sup>
7.040	0.6822	0.57987 <sup>167</sup>	+158	8.315 <sup>12</sup>	+40	18.040 <sup>86</sup>	5.684 <sup>333</sup>
8.037	0.6849	0.58154 <sup>166</sup>	+228	8.303 <sup>12</sup>	+9	18.126 <sup>81</sup>	5.351 <sup>335</sup>
9.035	0.6876	+0.58320 <sup>164</sup>	+227	+8.291 <sup>12</sup>	-28	+18.207 <sup>75</sup>	-5.016 <sup>336</sup>
10.032	0.6904	0.58484 <sup>163</sup>	+152	8.279 <sup>11</sup>	-58	18.282 <sup>70</sup>	4.680 <sup>338</sup>
11.029	0.6931	0.58647 <sup>163</sup>	+22	8.268 <sup>10</sup>	-77	18.352 <sup>65</sup>	4.342 <sup>340</sup>
12.027	0.6958	0.58810 <sup>161</sup>	-128	8.258 <sup>10</sup>	-75	18.417 <sup>59</sup>	4.002 <sup>341</sup>
13.024	0.6985	0.58971 <sup>160</sup>	-252	8.248 <sup>9</sup>	-56	18.476 <sup>54</sup>	3.661 <sup>341</sup>
14.021	0.7013	0.59131 <sup>159</sup>	-314	8.239 <sup>9</sup>	-21	18.530 <sup>49</sup>	3.320 <sup>343</sup>
15.018	0.7040	+0.59290 <sup>158</sup>	-290	+8.230 <sup>8</sup>	+17	+18.579 <sup>44</sup>	-2.977 <sup>345</sup>
16.016	0.7067	0.59448 <sup>158</sup>	-180	8.222 <sup>7</sup>	+52	18.623 <sup>39</sup>	2.632 <sup>345</sup>
17.013	0.7095	0.59606 <sup>157</sup>	-10	8.215 <sup>7</sup>	+74	18.662 <sup>33</sup>	2.287 <sup>346</sup>
18.010	0.7122	0.59763 <sup>156</sup>	+179	8.208 <sup>7</sup>	+76	18.695 <sup>27</sup>	1.941 <sup>346</sup>
19.007	0.7149	0.59919 <sup>156</sup>	+341	8.201 <sup>6</sup>	+62	18.722 <sup>22</sup>	1.595 <sup>348</sup>
20.005	0.7177	0.60075 <sup>155</sup>	+447	8.195 <sup>5</sup>	+35	18.744 <sup>16</sup>	1.247 <sup>348</sup>
21.002	0.7204	+0.60230 <sup>156</sup>	+472	+8.190 <sup>4</sup>	0	+18.760 <sup>12</sup>	-0.899 <sup>348</sup>
21.999	0.7231	0.60386 <sup>155</sup>	+423	8.186 <sup>4</sup>	-30	18.772 <sup>6</sup>	0.551 <sup>348</sup>
22.996	0.7258	0.60541 <sup>155</sup>	+310	8.182 <sup>2</sup>	-55	18.778 <sup>0</sup>	-0.203 <sup>349</sup>
23.994	0.7286	0.60696 <sup>155</sup>	+161	8.180 <sup>2</sup>	-67	18.778 <sup>5</sup>	+0.146 <sup>349</sup>
24.991	0.7313	0.60851 <sup>155</sup>	+6	8.178 <sup>1</sup>	-67	18.773 <sup>10</sup>	0.495 <sup>349</sup>
25.988	0.7340	0.61006 <sup>156</sup>	-141	8.177 <sup>1</sup>	-56	18.763 <sup>16</sup>	0.844 <sup>349</sup>
26.986	0.7368	+0.61162 <sup>157</sup>	-254	+8.176 <sup>1</sup>	-38	+18.747 <sup>21</sup>	+1.193 <sup>349</sup>
27.983	0.7395	0.61319 <sup>157</sup>	-333	8.175 <sup>0</sup>	-12	18.726 <sup>27</sup>	1.542 <sup>349</sup>
28.980	0.7422	0.61476 <sup>157</sup>	-360	8.175 <sup>1</sup>	+15	18.699 <sup>35</sup>	1.891 <sup>349</sup>
29.977	0.7450	0.61633 <sup>158</sup>	-338	8.176 <sup>2</sup>	+39	18.666 <sup>38</sup>	2.240 <sup>348</sup>
30.975	0.7477	0.61791 <sup>158</sup>	-267	8.178 <sup>2</sup>	+61	18.628 <sup>43</sup>	2.588 <sup>347</sup>
Okt. 1.972	0.7504	0.61949 <sup>159</sup>	-158	8.180 <sup>3</sup>	+70	18.585 <sup>49</sup>	2.935 <sup>347</sup>
2.969	0.7531	+0.62108 <sup>160</sup>	-28	+8.183 <sup>3</sup>	+67	+18.536 <sup>54</sup>	+3.282 <sup>345</sup>
3.966	0.7559	0.62268 <sup>161</sup>	+94	8.186 <sup>4</sup>	+52	18.482 <sup>60</sup>	3.627 <sup>345</sup>
4.964	0.7586	0.62430 <sup>163</sup>	+180	8.190 <sup>5</sup>	+23	18.422 <sup>65</sup>	3.972 <sup>344</sup>
5.961	0.7613	0.62593 <sup>164</sup>	+204	8.195 <sup>6</sup>	-13	18.357 <sup>71</sup>	4.316 <sup>343</sup>
6.958	0.7641	0.62757 <sup>165</sup>	+155	8.201 <sup>6</sup>	-46	18.286 <sup>76</sup>	4.659 <sup>343</sup>
7.956	0.7668	0.62922 <sup>166</sup>	+44	8.207 <sup>6</sup>	-71	18.210 <sup>82</sup>	5.002 <sup>340</sup>
8.953	0.7695	+0.63088 <sup>168</sup>	-100	+8.213 <sup>7</sup>	-78	+18.128 <sup>87</sup>	+5.342 <sup>339</sup>
9.950	0.7723	0.63256 <sup>170</sup>	-238	8.220 <sup>7</sup>	-65	18.041 <sup>92</sup>	5.681 <sup>337</sup>
10.947	0.7750	0.63426 <sup>172</sup>	-323	8.227 <sup>8</sup>	-39	17.949 <sup>98</sup>	6.018 <sup>337</sup>
11.945	0.7777	0.63598 <sup>174</sup>	-327	8.235 <sup>9</sup>	0	17.851 <sup>103</sup>	6.355 <sup>334</sup>
12.942	0.7805	0.63772 <sup>175</sup>	-241	8.244 <sup>9</sup>	+37	17.748 <sup>108</sup>	6.689 <sup>332</sup>
13.939	0.7832	0.63947	-85	8.253	+65	17.640	7.021

# Reduktionsgrößen 1923

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für 12<sup>h</sup> Sternzeit Greenwich

Mittlere Zeit Greenwich	<i>t</i>	A	A'	B	B'	C	D
1923							
Okt. 13.939	0.7832	+0.63947	- 85	+8.253	+65	+17.640	+ 7.021
14.936	0.7859	0.64124	+113	8.263	+76	17.526	7.352
15.934	0.7886	0.64303	+300	8.274	+69	17.406	7.681
16.931	0.7914	0.64485	+438	8.285	+48	17.282	8.007
17.928	0.7941	0.64669	+500	8.295	+15	17.153	8.332
18.926	0.7968	0.64856	+480	8.306	-18	17.018	8.654
19.923	0.7996	+0.65044	+388	+8.318	-46	+16.878	+ 8.974
20.920	0.8023	0.65235	+247	8.331	-63	16.733	9.291
21.917	0.8050	0.65429	+ 88	8.343	-69	16.583	9.605
22.915	0.8078	0.65625	- 68	8.356	-61	16.428	9.917
23.912	0.8105	0.65824	-197	8.370	-45	16.268	10.226
24.909	0.8132	0.66026	-289	8.384	-22	16.103	10.532
25.906	0.8159	+0.66231	-336	+8.398	+ 3	+15.933	+10.835
26.904	0.8187	0.66439	-334	8.412	+31	15.758	11.135
27.901	0.8214	0.66649	-284	8.426	+54	15.578	11.432
28.898	0.8241	0.66862	-191	8.441	+68	15.393	11.725
29.895	0.8269	0.67078	- 70	8.457	+71	15.204	12.015
30.893	0.8296	0.67297	+ 55	8.473	+60	15.010	12.302
31.890	0.8323	+0.67520	+149	+8.489	+36	+14.811	+12.585
Nov. 1.887	0.8351	0.67746	+191	8.506	+ 3	14.607	12.864
2.885	0.8378	0.67974	+165	8.522	-33	14.399	13.139
3.882	0.8405	0.68206	+ 71	8.538	-62	14.187	13.411
4.879	0.8433	0.68441	- 73	8.555	-79	13.970	13.679
5.876	0.8460	0.68679	-225	8.571	-74	13.749	13.943
6.874	0.8487	+0.68920	-339	+8.587	-53	+13.523	+14.203
7.871	0.8514	0.69164	-378	8.603	-17	13.293	14.458
8.868	0.8542	0.69411	-327	8.620	+21	13.060	14.709
9.865	0.8569	0.69662	-188	8.636	+55	12.822	14.956
10.863	0.8596	0.69917	+ 9	8.652	+74	12.579	15.198
11.860	0.8624	0.70175	+214	8.668	+74	12.333	15.436
12.857	0.8651	+0.70436	+388	+8.684	+59	+12.083	+15.669
13.855	0.8678	0.70699	+493	8.700	+28	11.830	15.897
14.852	0.8706	0.70966	+512	8.716	- 5	11.572	16.121
15.849	0.8733	0.71236	+452	8.732	-36	11.311	16.340
16.846	0.8760	0.71509	+329	8.747	-57	11.046	16.553
17.844	0.8787	0.71785	+173	8.762	-68	10.778	16.762
18.841	0.8815	+0.72064	+ 14	+8.777	-65	+10.506	+16.965
19.838	0.8842	0.72347	-130	8.791	-52	10.231	17.164
20.835	0.8869	0.72633	-238	8.806	-32	9.953	17.358
21.833	0.8897	0.72921	-303	8.821	- 6	9.672	17.547
22.830	0.8924	0.73212	-318	8.835	+20	9.387	17.729
23.827	0.8951	0.73507	-284	8.848	+45	9.099	17.906



## Reduktionsgrößen 1923

für 12<sup>h</sup> Sternzeit Greenwich

Mittlere Zeit Greenwich		<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>			
1923											
Nov.	23.827	0.8951	+0.73507	297	-284	+8.848	+45	+9.099	291	+17.906	172
	24.824	0.8979	0.73804	300	-205	8.861	+62	8.808	293	18.078	166
	25.822	0.9006	0.74104	302	-94	8.874	+72	8.515	296	18.244	161
	26.819	0.9033	0.74406	305	+29	8.886	+67	8.219	299	18.405	155
	27.816	0.9061	0.74711	307	+136	8.898	+48	7.920	302	18.560	149
	28.814	0.9088	0.75018	310	+200	8.910	+18	7.618	304	18.709	144
	29.811	0.9115	+0.75328	313	+195	+8.922	-18	+7.314	306	+18.853	138
	30.808	0.9142	0.75641	315	+118	8.932	-51	7.008	308	18.991	132
Dez.	1.805	0.9170	0.75956	317	-19	8.942	-74	6.700	311	19.123	126
	2.803	0.9197	0.76273	319	-181	8.951	-78	6.389	313	19.249	120
	3.800	0.9224	0.76592	320	-324	8.960	-65	6.076	315	19.369	114
	4.797	0.9252	0.76912	322	-406	8.968	-34	5.761	316	19.483	108
	5.794	0.9279	+0.77234	325	-399	+8.976	+7	+5.445	318	+19.591	101
	6.792	0.9306	0.77559	326	-299	8.983	+42	5.127	321	19.692	96
	7.789	0.9334	0.77885	328	-122	8.989	+68	4.806	322	19.788	90
	8.786	0.9361	0.78213	330	+90	8.995	+77	4.484	323	19.878	83
	9.784	0.9388	0.78543	331	+291	9.000	+68	4.161	324	19.961	77
	10.781	0.9415	0.78874	333	+438	9.005	+42	3.837	326	20.038	71
	11.778	0.9443	+0.79207	333	+504	+9.009	+8	+3.511	328	+20.109	65
	12.775	0.9470	0.79540	335	+480	9.012	-25	3.183	328	20.174	58
	13.773	0.9497	0.79875	335	+387	9.015	-51	2.855	329	20.232	52
	14.770	0.9525	0.80210	337	+246	9.016	-66	2.526	330	20.284	46
	15.767	0.9552	0.80547	338	+87	9.017	-68	2.196	330	20.330	39
	16.764	0.9579	0.80885	338	-64	9.018	-59	1.866	331	20.369	33
	17.762	0.9607	+0.81223	338	-187	+9.019	-40	+1.535	332	+20.402	26
	18.759	0.9634	0.81561	339	-267	9.018	-14	1.203	333	20.428	20
	19.756	0.9661	0.81900	340	-300	9.016	+11	0.870	332	20.448	13
	20.754	0.9689	0.82240	340	-286	9.014	+37	0.538	333	20.461	7
	21.751	0.9716	0.82580	340	-221	9.011	+57	+0.205	333	20.468	1
	22.748	0.9743	0.82920	341	-119	9.007	+70	-0.128	333	20.469	6
	23.745	0.9770	+0.83261	340	+4	+9.003	+69	-0.461	333	+20.463	12
	24.743	0.9798	0.83601	339	+124	8.998	+55	0.794	333	20.451	18
	25.740	0.9825	0.83940	339	+208	8.992	+30	1.127	332	20.433	25
	26.737	0.9852	0.84279	338	+233	8.985	-4	1.459	332	20.408	31
	27.734	0.9880	0.84617	337	+186	8.978	-40	1.791	331	20.377	38
	28.732	0.9907	0.84954	337	+68	8.970	-66	2.122	331	20.339	45
	29.729	0.9934	+0.85291	336	-93	+8.962	-79	-2.453	330	+20.294	51
	30.726	0.9962	0.85627	336	-260	8.953	-72	2.783	329	20.243	57
	31.723	0.9989	0.85963	334	-382	8.943	-47	3.112	328	20.186	63
	32.721	1.0016	0.86297	333	-427	8.932	-10	3.440	327	20.123	69
	33.718	1.0043	0.86630	333	-373	8.920	+29	3.767	326	20.054	77
	34.715	1.0071	0.86963	333	-233	8.908	+59	4.093		19.977	



Mittlere Zeit Greenwich	Rechtwinklige Sonnen- koordinaten, bezogen auf das Äquinoktium 1925.0			Reduktion von dem mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium			
	X	Y	Z	f	log g	G	
1923							
Jan.	0.5	+0.163791	-0.889431	-0.385801	-6.229	1.62114	II <sup>h</sup> 5 <sup>m</sup> 48 <sup>a</sup>
	4.5	0.232284	0.876502	0.380193	6.189	1.61836	II 5 39
	8.5	0.299637	0.859229	0.372698	6.149	1.61558	II 5 33
	12.5	0.365524	0.837677	0.363347	6.110	1.61284	II 5 31
	16.5	0.429606	0.811938	0.352182	6.072	1.61014	II 5 33
	20.5	+0.491543	-0.782142	-0.339260	-6.035	1.60750	II 5 37
	24.5	0.551017	0.748454	0.324650	6.000	1.60491	II 5 44
	28.5	0.607739	0.711067	0.308434	5.966	1.60239	II 5 53
Febr.	1.5	0.661448	0.670181	0.290698	5.934	1.59997	II 6 4
	5.5	0.711905	0.625997	0.271530	5.904	1.59765	II 6 17
	9.5	+0.758875	-0.578718	-0.251021	-5.875	1.59543	II 6 30
	13.5	0.802116	0.528566	0.229267	5.848	1.59330	II 6 43
	17.5	0.841403	0.475797	0.206381	5.822	1.59127	II 6 57
	21.5	0.876544	0.420694	0.182481	5.798	1.58935	II 7 9
	25.5	0.907382	0.363548	0.157694	5.775	1.58753	II 7 20
März	1.5	+0.933797	-0.304653	-0.132146	-5.753	1.58580	II 7 29
	5.5	0.955695	0.244291	0.105960	5.732	1.58418	II 7 36
	9.5	0.972986	0.182734	0.079258	5.712	1.58264	II 7 40
	13.5	0.985580	0.120270	0.052165	5.692	1.58114	II 7 41
	17.5	0.993413	-0.057210	-0.024815	5.673	1.57968	II 7 38
	21.5	+0.996456	+0.006124	+0.002655	-5.654	1.57827	II 7 31
	25.5	0.994718	0.069412	0.030106	5.635	1.57689	II 7 21
	29.5	0.988242	0.132347	0.057407	5.616	1.57551	II 7 7
April	2.5	0.977095	0.194642	0.084431	5.596	1.57413	II 6 49
	6.5	0.961345	0.256030	0.111059	5.576	1.57272	II 6 27
	10.5	+0.941059	+0.316235	+0.137172	-5.555	1.57127	II 6 1
	14.5	0.916331	0.374966	0.162645	5.533	1.56976	II 5 32
	18.5	0.887287	0.431937	0.187355	5.510	1.56818	II 4 59
	22.5	0.854088	0.486873	0.211183	5.486	1.56654	II 4 24
	26.5	0.816920	0.539520	0.234022	5.460	1.56483	II 3 46
Mai	30.5	+0.775987	+0.589657	+0.255772	-5.433	1.56302	II 3 6
	4.5	0.731484	0.637083	0.276344	5.405	1.56109	II 2 24
	8.5	0.683603	0.681594	0.295649	5.375	1.55904	II 1 41
	12.5	0.632559	0.722982	0.313599	5.344	1.55687	II 0 58
	16.5	0.578592	0.761047	0.330108	5.312	1.55459	II 0 14

Mittlere Zeit Greenwich	Rechtwinklige Sonnen- koordinaten, bezogen auf das Äquinoktium 1925.0			Reduktion von dem mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium		
	X	Y	Z	f	log g	G
1923						
Mai 16.5	+0.578592	+0.761047	+0.330108	-5.312	1.55459	11 <sup>h</sup> 0 <sup>m</sup> 14 <sup>s</sup>
20.5	0.521969	0.795611	0.345101	5.278	1.55220	10 59 30
24.5	0.462975	0.826523	0.358512	5.243	1.54969	10 58 46
28.5	0.401899	0.853668	0.370289	5.207	1.54708	10 58 3
Juni 1.5	0.339014	0.876953	0.380389	5.170	1.54435	10 57 22
5.5	+0.274584	+0.896283	+0.388771	-5.133	1.54151	10 56 43
9.5	0.208888	0.911562	0.395396	5.094	1.53857	10 56 6
13.5	0.142228	0.922709	0.400230	5.055	1.53553	10 55 32
17.5	0.074921	0.929668	0.403250	5.016	1.53242	10 55 1
21.5	+0.007291	0.932415	0.404444	4.976	1.52925	10 54 33
25.5	-0.060347	+0.930960	+0.403814	-4.937	1.52602	10 54 9
29.5	0.127698	0.925333	0.401372	4.897	1.52275	10 53 48
Juli 3.5	0.194485	0.915559	0.397131	4.858	1.51943	10 53 31
7.5	0.260420	0.901668	0.391103	4.820	1.51609	10 53 17
11.5	0.325199	0.883704	0.383310	4.782	1.51276	10 53 7
15.5	-0.388516	+0.861738	+0.373784	-4.745	1.50945	10 53 1
19.5	0.450064	0.835872	0.362567	4.709	1.50616	10 52 58
23.5	0.509556	0.806243	0.349716	4.674	1.50291	10 52 59
27.5	0.566738	0.772997	0.335294	4.640	1.49971	10 53 3
31.5	0.621372	0.736276	0.319364	4.607	1.49658	10 53 10
Aug. 4.5	-0.673217	+0.696224	+0.301989	-4.576	1.49354	10 53 19
8.5	0.722026	0.653001	0.283240	4.546	1.49059	10 53 29
12.5	0.767554	0.606790	0.263198	4.518	1.48774	10 53 42
16.5	0.809569	0.557805	0.241953	4.491	1.48500	10 53 55
20.5	0.847867	0.506287	0.219608	4.465	1.48237	10 54 8
24.5	-0.882285	+0.452478	+0.196266	-4.440	1.47985	10 54 20
28.5	0.912675	0.396613	0.172031	4.417	1.47743	10 54 32
Sept. 1.5	0.938895	0.338923	0.147006	4.394	1.47512	10 54 42
5.5	0.960802	0.279655	0.121298	4.373	1.47290	10 54 50
9.5	0.978265	0.219072	0.095022	4.352	1.47079	10 54 55
13.5	-0.991169	+0.157464	+0.068302	-4.332	1.46879	10 54 56
17.5	0.999442	0.095138	0.041268	4.313	1.46687	10 54 54
21.5	1.003052	+0.032393	+0.014050	4.293	1.46500	10 54 47
25.5	1.001985	-0.030490	-0.013229	4.274	1.46316	10 54 36
29.5	0.996235	0.093235	0.040446	4.255	1.46134	10 54 20

Mittlere Zeit Greenwich	Rechtwinklige Sonnen- koordinaten, bezogen auf das Äquinoktium 1925.0			Reduktion von dem mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium		
	X	Y	Z	f	log g	G
1923						
Sept. 29.5	-0.996235	-0.093235	-0.040446	-4.255	1.46134	10 <sup>h</sup> 54 <sup>m</sup> 20 <sup>s</sup>
Okt. 3.5	0.985801	0.155559	0.067479	4.236	1.45952	10 53 59
7.5	0.970697	0.217168	0.094200	4.216	1.45771	10 53 32
11.5	0.950961	0.277753	0.120477	4.195	1.45588	10 53 1
15.5	0.926678	0.336999	0.146175	4.173	1.45399	10 52 25
19.5	-0.897971	-0.394610	-0.171166	-4.150	1.45201	10 51 43
23.5	0.864980	0.450318	0.195332	4.127	1.44994	10 50 57
27.5	0.827848	0.503868	0.218561	4.101	1.44778	10 50 6
31.5	0.786729	0.555006	0.240741	4.075	1.44550	10 49 11
Nov. 4.5	0.741790	0.603476	0.261763	4.046	1.44308	10 48 12
8.5	-0.693222	-0.649019	-0.281516	-4.017	1.44050	10 47 11
12.5	0.641261	0.691380	0.299890	3.985	1.43775	10 46 8
16.5	0.586175	0.730341	0.316792	3.952	1.43482	10 45 4
20.5	0.528241	0.765717	0.332139	3.918	1.43171	10 43 58
24.5	0.467732	0.797345	0.345858	3.882	1.42844	10 42 52
28.5	-0.404926	-0.825069	-0.357882	-3.845	1.42498	10 41 46
Dez. 2.5	0.340108	0.848741	0.368147	3.806	1.42133	10 40 42
6.5	0.273583	0.868217	0.376593	3.766	1.41749	10 39 40
10.5	0.205690	0.883373	0.383168	3.726	1.41348	10 38 40
14.5	0.136789	0.894128	0.387836	3.685	1.40931	10 37 44
18.5	-0.067232	-0.900440	-0.390575	-3.643	1.40502	10 36 51
22.5	+0.002642	0.902290	0.391378	3.601	1.40060	10 36 3
26.5	0.072501	0.899674	0.390241	3.560	1.39605	10 35 20
30.5	0.142017	0.892595	0.387168	3.518	1.39140	10 34 43
34.5	0.210851	0.881067	0.382166	3.477	1.38668	10 34 11

$$\text{Red. in } \alpha = f + \frac{1}{15} g \sin(G + \alpha) \operatorname{tg} \delta$$

$$\text{Red. in } \delta = g \cos(G + \alpha)$$

Für  $\alpha$  und  $\delta$  sind ihre genäherten Werte für das Äquinoktium  $\frac{t_1 + t_2}{2}$  zu setzen ( $t_1$  das jedesmalige wahre Äquinoktium,  $t_2$  das Normaläquinoktium 1925.0).



Übertragung mittlerer Polsternörter  
von dem Äquinoktium  $t_1$  auf  $t_2 = 1923.0$

$t_1$	$90^\circ - (N)$	$(m) + (N) - 90^\circ$	$(n)$
1755	+64 28.68	+64 30.91	+56' 8.54
1790	51 3.19	51 4.59	44 26.62
1800	47 13.01	47 14.20	41 6.08
1810	43 22.80	43 23.81	37 45.55
1825	37 37.45	37 38.20	32 44.76
1830	+35 42.32	+35 43.00	+31 4.50
1835	33 47.19	33 47.80	29 24.25
1840	31 52.05	31 52.59	27 43.99
1845	29 56.91	29 57.39	26 3.74
1850	28 1.76	28 2.18	24 23.48
1855	+26 6.61	+26 6.97	+22 43.23
1860	24 11.45	24 11.76	21 2.98
1865	22 16.28	22 16.55	19 22.74
1870	20 21.12	20 21.34	17 42.49
1875	18 25.94	18 26.13	16 2.25
1880	+16 30.76	+16 30.91	+14 22.00
1885	14 35.58	14 35.70	12 41.76
1890	12 40.39	12 40.48	11 1.52
1895	10 45.19	10 45.26	9 21.29
1900	8 49.99	8 50.04	7 41.05
1905	+ 6 54.79	+ 6 54.82	+ 6 0.82
1910	4 59.58	4 59.59	4 20.59
1915	3 4.36	3 4.37	2 40.36
1920	+ 1 9.14	+ 1 9.14	+ 1 0.13
1925	- 0 46.09	- 0 46.09	- 0 40.09

Sind  $\alpha_1, \delta_1$  die Koordinaten für  $t_1$  und  $\alpha_2, \delta_2$  jene für 1923.0, so hat man

zur Reduktion von dem Äquinoktium  
 $t_1$  auf  $t_2$ :

$$a_1 = \alpha_1 + [90^\circ - (N)]$$

$$p_1 = (\text{tang } \delta_1 + \cos a_1 \text{ tang } \frac{1}{2}(n)) \sin(n)$$

$$\text{tang } \Delta a_1 = \frac{p_1 \sin a_1}{1 - p_1 \cos a_1}$$

$$\alpha_2 = a_1 + [(m) + (N) - 90^\circ] + \Delta a_1$$

$$\text{tang } \frac{1}{2}(\delta_2 - \delta_1) =$$

$$\cos(a_1 + \frac{1}{2}\Delta a_1) \sec \frac{1}{2}\Delta a_1 \text{ tang } \frac{1}{2}(n)$$

zur Reduktion von dem Äquinoktium  
 $t_2$  auf  $t_1$ :

$$a_2 = \alpha_2 - [(m) + (N) - 90^\circ]$$

$$p_2 = -(\text{tang } \delta_2 - \cos a_2 \text{ tang } \frac{1}{2}(n)) \sin(n)$$

$$\text{tang } \Delta a_2 = \frac{p_2 \sin a_2}{1 - p_2 \cos a_2}$$

$$\alpha_1 = a_2 - [90^\circ - (N)] + \Delta a_2$$

$$\text{tang } \frac{1}{2}(\delta_1 - \delta_2) =$$

$$-\cos(a_2 + \frac{1}{2}\Delta a_2) \sec \frac{1}{2}\Delta a_2 \text{ tang } \frac{1}{2}(n)$$

## Übertragung mittlerer Sternörter von dem Äquinoktium $t_1$ auf $t_2 = 1923.0$

$t_1$	$m^s(t_2-t_1)$	$\log [n^s(t_2-t_1)]$	$\log [n''(t_2-t_1)]$
1755	+8 <sup>m</sup> 35.962	2.351377	3.527469
1790	6 48.513	2.249887	3.425978
1800	6 17.809	2.215932	3.392023
1810	5 47.103	2.179095	3.355187
1825	5 1.110	2.117229	3.293320
1830	+4 45.687	2.094482	3.270573
1835	4 30.331	2.070478	3.246569
1840	4 14.975	2.045068	3.221159
1845	3 59.619	2.018080	3.194171
1850	3 44.262	1.989303	3.165394
1855	+3 28.905	1.958485	3.134576
1860	3 13.547	1.925312	3.101403
1865	2 58.188	1.889394	3.065485
1870	2 42.830	1.850237	3.026328
1875	2 27.471	1.807198	2.983289
1880	+2 12.112	1.759420	2.935511
1885	1 56.752	1.705732	2.881823
1890	1 41.391	1.64446	2.82055
1895	1 26.030	1.57310	2.74919
1900	1 10.669	1.48766	2.66375
1905	+0 55.307	1.38120	2.55729
1910	0 39.944	1.23987	2.41596
1915	0 24.582	1.02901	2.20510
1920	+0 9.218	0.60304	1.77913
1925	-0 6.146	0.42694 <sub>n</sub>	1.60303 <sub>n</sub>

Sind  $\alpha_1, \delta_1$  die Koordinaten für  $t_1$  und  $\alpha_2, \delta_2$  jene für  $t_2 = 1923.0$ , ist ferner  $\alpha', \delta'$  der genäherte Sternort für die Zeit

$$\frac{1}{2} (t_1 + t_2),$$

so ist

$$\alpha_2 = \alpha_1 + m^s(t_2-t_1) + [n^s(t_2-t_1)] \sin \alpha' \operatorname{tg} \delta'$$

$$\delta_2 = \delta_1 + [n''(t_2-t_1)] \cos \alpha'$$

$\alpha$	$0^h, 12^h$		$1^h, 13^h$		$2^h, 14^h$		$3^h, 15^h$		$4^h, 16^h$		$5^h, 17^h$	
	+A <sub>1</sub> -	+D-	+A <sub>1</sub> -	+D-	+A <sub>1</sub> -	+D-	+A <sub>1</sub> -	+D-	+A <sub>1</sub> -	+D-	+A <sub>1</sub> -	+D-
m												
0	0.001	40.09	0.692	38.72	1.337	34.71	1.890	28.34	2.315	20.04	2.582	10.37
1	013	40.09	703	38.68	347	34.63	898	28.22	321	19.89	585	10.20
2	024	40.09	715	38.63	357	34.54	907	28.09	326	19.73	588	10.03
3	035	40.09	726	38.58	367	34.45	915	27.97	332	19.58	591	9.86
4	047	40.08	737	38.53	377	34.36	923	27.84	338	19.43	593	9.69
5	059	40.08	748	38.49	387	34.27	931	27.72	344	19.27	596	9.52
6	071	40.07	759	38.44	397	34.18	939	27.59	349	19.12	599	9.35
7	082	40.07	771	38.39	407	34.09	947	27.46	355	18.97	602	9.18
8	094	40.07	782	38.34	417	33.99	955	27.33	360	18.81	604	9.01
9	106	40.06	793	38.28	427	33.90	963	27.20	366	18.66	607	8.84
10	0.117	40.05	0.804	38.23	1.437	33.80	1.971	27.08	2.371	18.50	2.609	8.67
11	129	40.04	815	38.18	447	33.71	979	26.95	376	18.35	612	8.50
12	140	40.03	826	38.13	456	33.62	987	26.82	382	18.19	614	8.33
13	152	40.02	838	38.07	466	33.53	1.994	26.69	387	18.04	617	8.15
14	164	40.01	849	38.02	476	33.43	2.002	26.56	392	17.88	619	7.98
15	175	40.00	860	37.96	485	33.33	009	26.43	397	17.72	621	7.81
16	187	39.99	871	37.90	495	33.23	017	26.30	402	17.57	624	7.64
17	199	39.98	882	37.85	505	33.13	025	26.16	408	17.41	626	7.47
18	210	39.97	893	37.79	514	33.03	033	26.03	413	17.25	628	7.30
19	222	39.95	904	37.73	524	32.93	040	25.90	418	17.09	630	7.12
20	0.234	39.94	0.915	37.67	1.533	32.83	2.048	25.76	2.423	16.93	2.632	6.95
21	245	39.92	926	37.61	543	32.73	055	25.63	427	16.77	634	6.78
22	257	39.90	937	37.55	553	32.63	063	25.49	432	16.62	636	6.61
23	268	39.89	947	37.49	562	32.53	070	25.36	437	16.46	638	6.44
24	280	39.87	958	37.43	572	32.43	077	25.22	442	16.30	640	6.26
25	292	39.85	969	37.36	581	32.33	085	25.09	447	16.14	642	6.09
26	303	39.83	980	37.30	590	32.22	092	24.95	451	15.98	644	5.92
27	315	39.81	0.991	37.23	600	32.12	099	24.81	456	15.82	645	5.74
28	326	39.79	1.002	37.17	609	32.01	106	24.67	460	15.66	647	5.57
29	338	39.77	013	37.10	618	31.91	114	24.54	465	15.49	648	5.40
30	0.349	39.75	1.023	37.03	1.627	31.80	2.121	24.40	2.469	15.33	2.650	5.22
31	361	39.72	034	36.97	636	31.69	128	24.26	474	15.17	651	5.05
32	372	39.70	045	36.90	646	31.58	135	24.12	478	15.01	653	4.88
33	384	39.67	056	36.83	655	31.48	142	23.98	483	14.85	654	4.70
34	396	39.65	066	36.76	664	31.37	149	23.84	487	14.68	656	4.53
35	407	39.62	077	36.69	673	31.26	156	23.70	491	14.52	657	4.36
36	419	39.59	088	36.62	682	31.15	163	23.56	495	14.36	658	4.19
37	430	39.56	098	36.55	691	31.04	169	23.42	500	14.19	659	4.01
38	442	39.53	109	36.48	700	30.93	176	23.27	504	14.03	660	3.84
39	453	39.50	119	36.40	709	30.82	183	23.13	508	13.87	661	3.66
40	0.465	39.48	1.130	36.33	1.718	30.71	2.190	22.99	2.512	13.70	2.662	3.49
41	476	39.45	141	36.26	727	30.59	196	22.84	516	13.54	663	3.31
42	488	39.42	151	36.18	736	30.48	203	22.70	520	13.37	664	3.14
43	499	39.38	162	36.11	745	30.36	210	22.55	523	13.21	665	2.96
44	511	39.35	172	36.03	754	30.25	216	22.41	527	13.04	666	2.79
45	522	39.32	183	35.95	763	30.13	223	22.27	531	12.88	667	2.61
46	533	39.28	193	35.87	771	30.01	229	22.12	535	12.71	668	2.44
47	544	39.25	204	35.79	780	29.90	235	21.97	538	12.55	668	2.26
48	556	39.21	214	35.72	789	29.78	242	21.83	542	12.38	669	2.09
49	568	39.17	224	35.64	797	29.66	248	21.68	546	12.21	670	1.91
50	0.579	39.14	1.235	35.56	1.806	29.55	2.254	21.53	2.549	12.04	2.670	1.74
51	590	39.10	245	35.48	814	29.43	260	21.38	553	11.87	671	1.56
52	601	39.06	255	35.39	823	29.31	267	21.24	556	11.71	671	1.39
53	613	39.02	266	35.31	832	29.19	273	21.09	559	11.54	671	1.22
54	625	38.98	276	35.23	840	29.07	279	20.94	563	11.38	672	1.04
55	636	38.94	286	35.14	849	28.95	285	20.79	566	11.21	672	0.87
56	647	38.90	296	35.06	857	28.83	291	20.64	569	11.04	672	0.69
57	658	38.85	306	34.97	865	28.71	297	20.49	572	10.87	672	0.52
58	670	38.81	317	34.88	874	28.59	303	20.34	576	10.70	673	0.34
59	681	38.77	327	34.80	882	28.46	309	20.19	579	10.54	673	0.17
60	0.692	38.72	1.337	34.71	1.890	28.34	2.315	20.04	2.582	10.37	2.673	



$\alpha$	$6^h, 18^h$		$7^h, 19^h$		$8^h, 20^h$		$9^h, 21^h$		$10^h, 22^h$		$11^h, 23^h$	
	+A <sub>1</sub> -	-D+	+A <sub>1</sub> -	-D+	+A <sub>1</sub> -	-D+	+A <sub>1</sub> -	-D+	+A <sub>1</sub> -	-D+	+A <sub>1</sub> -	-D+
m												
0	2.673	0.01	2.581	10.38	2.314	20.05	1.889	28.35	1.336	34.72	0.691	38.73
1	673	0.18	578	10.55	308	20.20	881	28.47	326	34.81	680	38.77
2	673	0.35	575	10.72	303	20.35	873	28.60	316	34.90	669	38.81
3	673	0.53	572	10.89	297	20.51	865	28.72	305	34.98	657	38.86
4	672	0.71	569	11.06	291	20.66	856	28.84	295	35.07	646	38.90
5	672	0.89	566	11.23	285	20.81	848	28.97	285	35.15	635	38.94
6	672	1.06	562	11.39	279	20.96	839	29.09	275	35.24	623	38.98
7	672	1.23	559	11.56	272	21.11	831	29.21	264	35.32	612	39.02
8	671	1.41	556	11.73	266	21.26	822	29.33	254	35.40	601	39.06
9	671	1.58	552	11.90	260	21.40	813	29.44	244	35.48	589	39.10
10	2.670	1.76	2.549	12.06	2.254	21.55	1.805	29.56	1.234	35.56	0.578	39.14
11	670	1.93	545	12.23	248	21.69	797	29.68	223	35.64	566	39.17
12	669	2.11	542	12.40	241	21.84	788	29.80	213	35.72	555	39.21
13	668	2.28	538	12.56	235	21.98	779	29.92	202	35.80	544	39.25
14	668	2.46	534	12.73	228	22.13	771	30.03	192	35.88	532	39.29
15	667	2.63	531	12.89	222	22.27	762	30.14	182	35.96	521	39.32
16	666	2.81	527	13.06	215	22.42	753	30.26	171	36.04	509	39.35
17	665	2.98	523	13.23	209	22.57	744	30.37	161	36.11	498	39.38
18	664	3.15	519	13.39	202	22.71	735	30.49	150	36.19	486	39.42
19	663	3.33	515	13.56	196	22.86	726	30.60	140	36.26	475	39.45
20	2.662	3.50	2.511	13.72	2.189	23.00	1.718	30.72	1.129	36.34	0.464	39.48
21	661	3.68	507	13.89	182	23.15	709	30.83	118	36.41	452	39.51
22	660	3.85	503	14.05	176	23.29	700	30.94	108	36.48	441	39.54
23	659	4.02	499	14.21	169	23.43	691	31.05	097	36.56	429	39.57
24	658	4.20	495	14.38	162	23.57	681	31.16	087	36.63	417	39.60
25	657	4.37	491	14.54	155	23.71	672	31.27	076	36.70	406	39.62
26	655	4.55	486	14.70	148	23.85	663	31.38	065	36.77	395	39.65
27	654	4.72	482	14.86	141	23.99	654	31.49	054	36.84	383	39.68
28	653	4.89	478	15.03	134	24.13	645	31.60	044	36.91	371	39.70
29	651	5.06	473	15.19	127	24.27	636	31.70	033	36.97	360	39.72
30	2.650	5.24	2.469	15.35	2.120	24.41	1.627	31.81	1.022	37.04	0.348	39.75
31	648	5.41	464	15.51	113	24.55	617	31.92	011	37.11	337	39.77
32	647	5.58	460	15.67	106	24.69	608	32.02	1.001	37.17	325	39.79
33	645	5.76	455	15.83	099	24.83	599	32.13	0.990	37.24	314	39.81
34	643	5.93	451	15.99	091	24.96	589	32.23	979	37.30	302	39.83
35	642	6.11	446	16.15	084	25.10	580	32.33	968	37.37	290	39.85
36	640	6.28	441	16.31	077	25.24	570	32.44	957	37.43	279	39.87
37	638	6.45	437	16.47	069	25.37	561	32.54	946	37.49	267	39.89
38	636	6.62	432	16.63	062	25.51	552	32.64	935	37.55	256	39.90
39	634	6.80	427	16.79	054	25.64	542	32.74	924	37.61	244	39.92
40	2.632	6.97	2.422	16.95	2.047	25.78	1.533	32.84	0.914	37.67	0.232	39.94
41	630	7.14	417	17.11	039	25.91	523	32.94	903	37.73	221	39.95
42	628	7.31	412	17.27	032	26.04	513	33.04	892	37.79	209	39.97
43	626	7.49	407	17.42	024	26.18	504	33.14	881	37.85	197	39.98
44	623	7.66	402	17.58	017	26.31	494	33.24	870	37.91	186	39.99
45	621	7.83	397	17.74	009	26.44	484	33.34	859	37.97	174	40.01
46	619	8.00	392	17.90	2.001	26.57	474	33.44	847	38.02	163	40.02
47	617	8.17	386	18.05	1.994	26.70	465	33.53	836	38.08	151	40.03
48	614	8.34	381	18.21	986	26.83	455	33.63	825	38.13	139	40.04
49	612	8.52	376	18.36	978	26.96	445	33.72	814	38.18	128	40.05
50	2.609	8.69	2.370	18.52	1.970	27.09	1.436	33.82	0.803	38.24	0.116	40.05
51	607	8.86	365	18.67	962	27.22	426	33.91	792	38.29	104	40.06
52	604	9.03	360	18.83	954	27.35	416	34.00	781	38.34	093	40.07
53	601	9.20	354	18.98	946	27.47	406	34.10	770	38.39	081	40.07
54	599	9.37	349	19.14	938	27.60	396	34.19	759	38.44	069	40.08
55	596	9.54	343	19.29	930	27.73	386	34.28	747	38.49	058	40.08
56	593	9.70	337	19.44	922	27.86	376	34.37	736	38.54	046	40.08
57	590	9.87	332	19.60	914	27.98	366	34.46	725	38.59	034	40.09
58	587	10.04	326	19.75	906	28.11	356	34.55	714	38.63	023	40.09
59	584	10.21	320	19.90	898	28.23	346	34.64	702	38.68	011	40.09
60	2.581	10.38	2.314	20.05	1.889	28.35	1.336	34.72	0.691	38.73		40.09

Übertragung von Sternörter von mittleren Äquinoktium 1923.0  
auf das Normaläquinoktium 1925.0 (Fortsetzung)

$\alpha$	$A$	$A_2$	$D_1$	$\alpha$	$\alpha$	$A$	$A_2$	$D_1$	$\alpha$
0 <sup>h</sup> 0 <sup>m</sup>	+6.146	+0.0000	-0.000	12 <sup>h</sup> 0 <sup>m</sup>	6 <sup>h</sup> 0 <sup>m</sup>	+6.146	-0.0000	-0.004	18 <sup>h</sup> 0 <sup>m</sup>
10	I46	00	000	10	10	I46	00	004	10
20	I46	00	000	20	20	I46	00	004	20
30	I46	01	000	30	30	I46	01	004	30
40	I46	01	000	40	40	I46	01	004	40
50	I46	01	000	50	50	I46	01	004	50
1 0	+6.146	+0.0001	-0.000	13 0	7 0	+6.146	-0.0001	-0.004	19 0
10	I46	01	000	10	10	I46	01	004	10
20	I46	02	000	20	20	I45	02	003	20
30	I46	02	001	30	30	I45	02	003	30
40	I46	02	001	40	40	I45	02	003	40
50	I46	02	001	50	50	I45	02	003	50
2 0	+6.146	+0.0002	-0.001	14 0	8 0	+6.145	-0.0002	-0.003	20 0
10	I46	02	001	10	10	I45	02	003	10
20	I46	02	001	20	20	I45	02	003	20
30	I46	03	001	30	30	I45	03	002	30
40	I46	03	001	40	40	I45	03	002	40
50	I46	03	002	50	50	I45	03	002	50
3 0	+6.146	+0.0003	-0.002	15 0	9 0	+6.145	-0.0003	-0.002	21 0
10	I46	03	002	10	10	I45	03	002	10
20	I46	03	002	20	20	I45	03	001	20
30	I46	03	002	30	30	I45	03	001	30
40	I46	02	003	40	40	I45	02	001	40
50	I46	02	003	50	50	I45	02	001	50
4 0	+6.146	+0.0002	-0.003	16 0	10 0	+6.145	-0.0002	-0.001	22 0
10	I46	02	003	10	10	I45	02	001	10
20	I46	02	003	20	20	I45	02	001	20
30	I46	02	003	30	30	I45	02	001	30
40	I46	02	003	40	40	I45	02	000	40
50	I46	01	004	50	50	I46	01	000	50
5 0	+6.146	+0.0001	-0.004	17 0	11 0	+6.146	-0.0001	-0.000	23 0
10	I46	01	004	10	10	I46	01	000	10
20	I46	01	004	20	20	I46	01	000	20
30	I46	01	004	30	30	I46	01	000	30
40	I46	00	004	40	40	I46	00	000	40
50	I46	00	004	50	50	I46	00	000	50
6 0	+6.146	+0.0000	-0.004	18 0	12 0	+6.146	-0.0000	-0.000	24 0

$$\alpha_{1925} = \alpha_{1923} + A + A_1 \operatorname{tg} \delta_{1923} + A_2 \operatorname{tg}^2 \delta_{1923}$$

$$\delta_{1925} = \delta_{1923} + D + D_1 \operatorname{tg} \delta_{1923}$$

$A_1$  und  $D$  sind in der Tafel (S. 372/373) mit dem Argument  $\alpha_{1923}$  zu entnehmen; für die Werte von  $\alpha$  zwischen 0<sup>h</sup> und 12<sup>h</sup> gelten die Vorzeichen zur Linken, für die Werte von  $\alpha$  zwischen 12<sup>h</sup> und 24<sup>h</sup> die Vorzeichen zur Rechten.

**Finsternisse, Sternbedeckungen,  
Trabanten**

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**Konstellationen, Hülftafeln**

**1923**



Im Jahre 1923 finden zwei Sonnenfinsternisse und zwei Mondfinsternisse statt.

### I. Partielle Mondfinsternis 1923 März 2

Opposition in Rektaszension	März 2, 15 <sup>h</sup> 57 <sup>m</sup> 27.0	Mittl. Zt. Greenwich
Rektaszension des Mondes . . . . .	10 <sup>h</sup> 51 <sup>m</sup> 57.76	
Stündliche Änderung . . . . .	2 23.76	
Rektaszension der Sonne . . . . .	22 51 57.76	
Stündliche Änderung . . . . .	9.34	
Deklination des Mondes . . . . .	+6° 21' 59.4	
Stündliche Änderung . . . . .	-11 0.7	
Deklination der Sonne . . . . .	-7 13 50.1	
Stündliche Änderung . . . . .	+ 57.2	
Äquatorialhorizontalparallaxe des Mondes . . . . .	60 43.2	
» der Sonne . . . . .	8.9	
Halbmesser des Mondes . . . . .	16 31.9	
» der Sonne . . . . .	16 8.0	
Anfang der Finsternis überhaupt	März 2, 14 <sup>h</sup> 27.8	Mittl. Zt. Greenwich
Mitte der Finsternis . . . . .	» 15 31.8	» » »
Ende der Finsternis überhaupt	» 16 35.8	» » »

Der Mond steht zu Beginn und Ende der Finsternis im Zenit der Orte, deren geographische Lage ist:

34° 42'	westliche Länge von Greenwich,	6° 38'	nördliche Breite
65 31	» » » »	6 15	» »

Positionswinkel des Eintritts = 54°

» » Austritts = 340

Größe der Verfinsterung in Teilen des Monddurchmessers = 0.376

Der Beginn der Finsternis ist sichtbar im westlichen Asien, in Europa, Afrika, im Atlantischen Ozean, in Südamerika, Nordamerika ohne den äußersten Nordwesten und im östlichen Teile des Stillen Ozeans. Das Ende ist sichtbar in Europa, Afrika mit Ausnahme des östlichen Teils, im Atlantischen Ozean, in Nord- und Südamerika und dem östlichen Teile des Stillen Ozeans.

II. Ringförmige Sonnenfinsternis 1923 März 16—17

Konjunktion in Rektaszension März 17,  $0^h 24^m 3.6^s$  Mittl. Zt. Greenwich

Rektaszension des Mondes . . . . .	$23^h 44^m 56.02^s$
Stündliche Änderung . . . . .	$+1 53.74$
Rektaszension der Sonne . . . . .	$23^h 44^m 56.02^s$
Stündliche Änderung . . . . .	$9.14$
Deklination des Mondes . . . . .	$-2^\circ 8' 47.1''$
Stündliche Änderung . . . . .	$+9 17.8$
Deklination der Sonne . . . . .	$-1 37 55.0$
Stündliche Änderung . . . . .	$+59.3$
Äquatorialhorizontalparallaxe des Mondes . . . . .	$54 13.6$
» der Sonne . . . . .	$8.8$
Halbmesser des Mondes . . . . .	$14 45.8$
» der Sonne . . . . .	$16 4.2$

	Mittlere Zeit Greenwich	Westl. Länge von Greenwich	Geographi- sche Breite
Beginn der Finsternis überhaupt	März 16 $21^h 50.4^m$	$56^\circ 43'$	$-38^\circ 5'$
Beginn der zentralen Finsternis	» 16 $23 5.5$	$76 13$	$-50 49$
Zentrale Finsternis im wahren Mittag	» 17 $0 24.1$	$3 50$	$-36 40$
Ende der zentralen Finsternis	» 17 $2 23.8$	$303 20$	$-15 25$
Ende der Finsternis überhaupt	» 17 $3 38.9$	$322 29$	$- 2 39$

Grenzkurven für die Sichtbarkeit der Finsternis

Südwestliche Grenze		Nördliche Grenze		Südöstliche Grenze		Zentralkurve		Dauer der ringförmigen Ver- finsternung	
$\lambda$	$\varphi$	$\lambda$	$\varphi$	$\lambda$	$\varphi$	$\lambda$	$\varphi$		
255.6	$-86.5$	69.6	$-16.1$	309.3	$+19.1$	$76.2$	$-50.8$		
120.1	$-85.2$	58.5	$-16.1$	308.4	$+19.1$	$54.4$	$-50.4$	$6^m 7^s$	
104.6	$-76.6$	48.9	$-15.5$	303.3	$+17.2$	$35$	$26.0$	$7 0$	
99.2	$-67.0$	35.0	$-12.7$	298.2	$+11.9$	$0 0$	$12.7$	$-41.1$	$7 31$
92.1	$-48.2$	24.6	$- 8.5$	290.2	$- 4.2$	$25$	$3.5$	$-36.5$	$7 47$
89.2	$-40.2$	16.6	$- 3.7$	284.7	$-21.1$	$50$	$356.1$	$-32.1$	$7 51$
86.4	$-33.4$	8.0	$+ 2.2$	278.9	$-40.5$	$1 15$	$349.0$	$-27.7$	$7 42$
81.0	$-23.7$	355.0	$+ 9.7$	272.8	$-57.2$	$40$	$341.0$	$-23.5$	$7 20$
75.8	$-18.2$	343.1	$+14.2$	262.0	$-74.2$	$2 5$	$329.7$	$-19.2$	$6 43$
73.3	$-16.8$	324.6	$+18.0$	146.3	$-88.2$	$20$	$316.2$	$-16.4$	$6 7$
69.6	$-16.1$	309.3	$+19.1$	95.6	$-85.2$		$303.3$	$-15.4$	

Die Finsternis beginnt in Südamerika und ist sichtbar im südlichen Atlantischen Ozean und in der südlichen Hälfte Afrikas.

## Elemente der ringförmigen Sonnenfinsternis 1923 März 16–17

Mittl. Zeit Greenwich	$x$	$y$	$\log \sin d$	$\log \cos d$	$\mu$	$l^{(a)}$	$l^{(i)}$
<sup>h</sup> <sup>m</sup> 21 50	-1.24067	-0.96488	8.46502 <sub>n</sub>	9.99982	325 18.6	+0.56999	+0.02395
22 0	-1.16015	-0.93931	8.46432 <sub>n</sub>	9.99982	327 48.6	+0.57000	+0.02397
10	1.07962	0.91375	8.46362 <sub>n</sub>	9.99982	330 18.7	0.57002	0.02398
20	0.99910	0.88818	8.46292 <sub>n</sub>	9.99982	332 48.7	0.57004	0.02400
30	0.91857	0.86261	8.46222 <sub>n</sub>	9.99982	335 18.7	0.57005	0.02401
40	0.83804	0.83704	8.46152 <sub>n</sub>	9.99982	337 48.8	0.57007	0.02403
50	0.75751	0.81146	8.46082 <sub>n</sub>	9.99982	340 18.8	0.57008	0.02404
23 0	-0.67697	-0.78588	8.46011 <sub>n</sub>	9.99982	342 48.9	+0.57009	+0.02405
10	0.59644	0.76030	8.45941 <sub>n</sub>	9.99982	345 18.9	0.57011	0.02407
20	0.51590	0.73472	8.45870 <sub>n</sub>	9.99982	347 48.9	0.57012	0.02408
30	0.43537	0.70914	8.45800 <sub>n</sub>	9.99982	350 19.0	0.57013	0.02409
40	0.35483	0.68355	8.45729 <sub>n</sub>	9.99982	352 49.0	0.57014	0.02410
50	0.27430	0.65797	8.45658 <sub>n</sub>	9.99982	355 19.1	0.57015	0.02411
0 0	-0.19376	-0.63238	8.45587 <sub>n</sub>	9.99982	357 49.1	+0.57016	+0.02412
10	0.11322	0.60679	8.45516 <sub>n</sub>	9.99982	0 19.2	0.57017	0.02413
20	-0.03269	0.58119	8.45444 <sub>n</sub>	9.99982	2 49.2	0.57018	0.02414
30	+0.04784	0.55560	8.45373 <sub>n</sub>	9.99982	5 19.2	0.57019	0.02415
40	0.12838	0.53000	8.45301 <sub>n</sub>	9.99982	7 49.3	0.57020	0.02416
50	0.20891	0.50441	8.45230 <sub>n</sub>	9.99983	10 19.3	0.57020	0.02416
1 0	+0.28944	-0.47881	8.45158 <sub>n</sub>	9.99983	12 49.4	+0.57021	+0.02417
10	0.36997	0.45321	8.45086 <sub>n</sub>	9.99983	15 19.4	0.57022	0.02418
20	0.45050	0.42761	8.45014 <sub>n</sub>	9.99983	17 49.4	0.57022	0.02418
30	0.53103	0.40201	8.44942 <sub>n</sub>	9.99983	20 19.5	0.57023	0.02419
40	0.61155	0.37640	8.44870 <sub>n</sub>	9.99983	22 49.5	0.57023	0.02419
50	0.69208	0.35080	8.44797 <sub>n</sub>	9.99983	25 19.6	0.57023	0.02419
2 0	+0.77260	-0.32519	8.44725 <sub>n</sub>	9.99983	27 49.6	+0.57024	+0.02420
10	0.85312	0.29958	8.44652 <sub>n</sub>	9.99983	30 19.7	0.57024	0.02420
20	0.93363	0.27398	8.44580 <sub>n</sub>	9.99983	32 49.7	0.57024	0.02420
30	1.01414	0.24837	8.44507 <sub>n</sub>	9.99983	35 19.7	0.57024	0.02421
40	1.09465	0.22276	8.44434 <sub>n</sub>	9.99983	37 49.8	0.57025	0.02421
50	1.17516	0.19715	8.44361 <sub>n</sub>	9.99983	40 19.8	0.57025	0.02421
3 0	+1.25566	-0.17153	8.44287 <sub>n</sub>	9.99983	42 49.9	+0.57025	+0.02421
10	1.33616	0.14592	8.44214 <sub>n</sub>	9.99983	45 19.9	0.57025	0.02421
20	1.41665	0.12031	8.44141 <sub>n</sub>	9.99983	47 49.9	0.57025	0.02421
30	1.49714	0.09469	8.44067 <sub>n</sub>	9.99983	50 20.0	0.57024	0.02420
40	+1.57763	-0.06908	8.43993 <sub>n</sub>	9.99983	52 50.0	0.57024	0.02420

Mittl. Zeit Greenwich	$x'$	$y'$	$\log \tan g f^{(a)}$	$\log \tan g f^{(i)}$
<sup>h</sup> <sup>m</sup> 21 0	+0.008052	+0.002555	7.67204	7.66987
22 0	8053	2557	7.67203	7.66986
23 0	8054	2558	7.67203	7.66986
0 0	8054	2559	7.67202	7.66985
1 0	8053	2560	7.67202	7.66985
2 0	8052	2561	7.67201	7.66984
3 0	8050	2561	7.67201	7.66984
4 0	8048	2561	7.67200	7.66984



III. Partielle Mondfinsternis 1923 August 25—26

Opposition in Rektaszension	Aug. 25,	23 <sup>h</sup> 8 <sup>m</sup> 10 <sup>s</sup>	Mittl. Zt. Greenwich
Rektaszension des Mondes . . . . .			22 <sup>h</sup> 16 <sup>m</sup> 40 <sup>s</sup> .28
Stündliche Änderung . . . . .			2 4.32
Rektaszension der Sonne . . . . .			10 16 40.28
Stündliche Änderung . . . . .			9.17
Deklination des Mondes . . . . .			-9 <sup>°</sup> 49' 6.1
Stündliche Änderung . . . . .			+8 39.0
Deklination der Sonne . . . . .			+10 42 5.9
Stündliche Änderung . . . . .			- 51.8
Äquatorialhorizontalparallaxe des Mondes . . .			55 57.7
» der Sonne . . . . .			8.7
Halbmesser des Mondes . . . . .			15 14.2
» der Sonne . . . . .			15 49.7
Anfang der Finsternis überhaupt	Aug. 25,	21 <sup>h</sup> 51.8 <sup>m</sup>	Mittl. Zt. Greenwich
Mitte der Finsternis . . . . .	»	22 39.5	» » »
Ende der Finsternis überhaupt . . . . .	»	23 27.3	» » »

Der Mond steht zu Beginn und Ende der Finsternis im Zenit der Orte, deren geographische Lage ist:

148° 4' westliche Länge von Greenwich, 10° 0' südliche Breite  
 171 10        »        »        »        »        9 46        »        »

Positionswinkel des Eintritts = 140°  
 »        » Austritts = 189

Größe der Verfinsterung in Teilen des Monddurchmessers = 0.168

Der Beginn der Finsternis ist sichtbar in Nordamerika mit Ausnahme des äußersten Nordostens, im westliche Teile von Südamerika, im Stillen Ozean, in Australien mit Ausnahme des südwestlichen Teils und im äußersten Nordosten von Asien. Das Ende ist sichtbar in Nordamerika mit Ausnahme des nordöstlichen Teils, im äußersten Nordwesten von Südamerika, im Stillen Ozean, in Australien und im östlichen Asien.

## IV. Totale Sonnenfinsternis 1923 September 10

Konjunktion in Rektaszension Sept. 10, 8<sup>h</sup> 30<sup>m</sup> 9.1 Mittl. Zt. Greenwich

Rektaszension des Mondes . . . . .	11 <sup>h</sup> 12 <sup>m</sup> 29.37
Stündliche Änderung . . . . .	2 19.60
Rektaszension der Sonne . . . . .	11 12 29.37
Stündliche Änderung . . . . .	9.00
Deklination des Mondes . . . . .	+5° 38' 18.1
Stündliche Änderung . . . . .	-11 3.2
Deklination der Sonne . . . . .	+5 6 3.7
Stündliche Änderung . . . . .	-56.8
Äquatorialhorizontalparallaxe des Mondes . . . . .	59' 56.8
» der Sonne . . . . .	8.7
Halbmesser des Mondes . . . . .	16' 19.3
» der Sonne . . . . .	15 53.2

	Mittl. Zeit Greenwich	Westl. Länge von Greenwich	Geographi- sche Breite
Beginn der Finsternis überhaupt . . . . .	6 <sup>h</sup> 14 <sup>m</sup> 3	188° 9	+36° 51'
Beginn der zentralen Finsternis . . . . .	7 16.9	205.42	+48 16
Zentrale Finsternis im wahren Mittag . . . . .	8 30.2	128 16	+37 58
Ende der zentralen Finsternis . . . . .	10 17.4	63 51	+13 43
Ende der Finsternis überhaupt . . . . .	11 19.9	80 31	+ 2 15

## Grenzkurven für die Sichtbarkeit der Finsternis

Nordöstliche Grenze		Südliche Grenze		Nordwestliche Grenze		Mittlere Zeit Green- wich	Zentralkurve		Dauer der totalen Verfinstere- rung
$\lambda$	$\varphi$	$\lambda$	$\varphi$	$\lambda$	$\varphi$		$\lambda$	$\varphi$	
330.1	+84.7	197.0	+15.9	71.1	-18.6	205.7	+48.3	1 m 53 42 10 28 36 35 25 5 33 53	
248.7	+79.2	176.9	+16.7	67.4	-17.8	7 20	186.9		+49.2
230.6	+67.4	163.6	+15.5	62.4	-13.7	40	157.5		+47.1
223.1	+55.3	151.9	+12.6	59.0	- 8.9	8 0	142.9		+43.6
218.3	+44.5	140.9	+ 7.7	52.8	+ 4.6	20	132.6		+39.9
214.4	+35.7	130.7	+ 1.7	45.8	+25.8	40	124.4		+36.0
211.0	+28.8	121.0	- 4.0	41.7	+38.4	9 0	117.1		+32.1
208.0	+23.6	111.8	- 8.7	37.0	+50.4	20	110.0		+28.1
205.1	+19.9	105.0	-11.4	25.7	+67.7	40	102.0		+23.9
202.3	+17.5	94.0	-14.7	9.0	+77.7	10 0	91.2		+19.4
199.7	+16.2	85.0	-16.7	337.0	+84.2	15	74.9		+15.2
197.0	+15.9	71.1	-18.6	282.9	+84.8		63.8		+13.7

Die Finsternis beginnt im äußersten Osten Asiens, ist sichtbar in Nordamerika und in dem nordwestlichen Teile von Südamerika.

## Elemente der totalen Sonnenfinsternis 1923 September 10

Mittl. Zeit Greenwich	$x$	$y$	$\log \sin d$	$\log \cos d$	$\mu$	$l^{(a)}$	$l^{(i)}$
6 <sup>h</sup> 10 <sup>m</sup>	-1.26919	+0.93402	8.95189	9.99825	93° 12.7	+0.53873	-0.00715
20	1.17865	0.90587	8.95167	9.99825	95 42.7	0.53872	0.00716
30	1.08810	0.87772	8.95146	9.99826	98 12.8	0.53872	0.00716
40	0.99754	0.84957	8.95124	9.99826	100 42.8	0.53871	0.00717
50	0.90699	0.82141	8.95102	9.99826	103 12.9	0.53870	0.00718
7 0	-0.81643	+0.79324	8.95081	9.99826	105 42.9	+0.53870	-0.00718
10	0.72588	0.76507	8.95059	9.99826	108 13.0	0.53869	0.00719
20	0.63532	0.73690	8.95037	9.99826	110 43.0	0.53868	0.00720
30	0.54475	0.70872	8.95016	9.99827	113 13.1	0.53867	0.00721
40	0.45419	0.68054	8.94994	9.99827	115 43.1	0.53866	0.00722
50	0.36363	0.65236	8.94972	9.99827	118 13.2	0.53865	0.00723
8 0	-0.27306	+0.62417	8.94950	9.99827	120 43.2	+0.53864	-0.00724
10	0.18250	0.59598	8.94929	9.99827	123 13.3	0.53863	0.00725
20	0.09193	0.56778	8.94907	9.99827	125 43.3	0.53861	0.00727
30	-0.00137	0.53958	8.94885	9.99828	128 13.4	0.53860	0.00728
40	+0.08920	0.51138	8.94864	9.99828	130 43.4	0.53858	0.00729
50	0.17976	0.48317	8.94842	9.99828	133 13.5	0.53857	0.00731
9 0	+0.27033	+0.45496	8.94820	9.99828	135 43.5	+0.53855	-0.00733
10	0.36089	0.42675	8.94798	9.99828	138 13.6	0.53854	0.00734
20	0.45146	0.39854	8.94776	9.99828	140 43.6	0.53852	0.00736
30	0.54202	0.37032	8.94755	9.99829	143 13.7	0.53850	0.00738
40	0.63259	0.34209	8.94733	9.99829	145 43.7	0.53849	0.00739
50	0.72315	0.31387	8.94711	9.99829	148 13.8	0.53847	0.00741
10 0	+0.81371	+0.28564	8.94689	9.99829	150 43.8	+0.53845	-0.00743
10	0.90427	0.25741	8.94667	9.99829	153 13.9	0.53843	0.00745
20	0.99482	0.22918	8.94645	9.99829	155 43.9	0.53841	0.00747
30	1.08538	0.20094	8.94623	9.99830	158 14.0	0.53838	0.00750
40	1.17593	0.17270	8.94601	9.99830	160 44.0	0.53836	0.00752
50	1.26648	0.14446	8.94580	9.99830	163 14.1	0.53834	0.00754
11 0	+1.35702	+0.11621	8.94558	9.99830	165 44.1	+0.53831	-0.00757
10	1.44757	0.08796	8.94536	9.99830	168 14.2	0.53829	0.00759
20	+1.53811	+0.05971	8.94514	9.99830	170 44.2	+0.53826	-0.00761

Mittl. Zeit Greenwich	$x'$	$y'$	$\log \tan g f^{(a)}$	$\log \tan g f^{(i)}$
6 <sup>h</sup> 0 <sup>m</sup>	+0.009054	-0.002815	7.66688	7.66471
7 0	9055	2817	7.66689	7.66472
8 0	9056	2819	7.66689	7.66472
9 0	9056	2821	7.66690	7.66473
10 0	9056	2823	7.66690	7.66473
11 0	9055	2825	7.66690	7.66474
12 0	9054	2826	7.66691	7.66474



I. Verzeichnis von Fixsternen, welche in Mitteleuropa vom Monde bedeckt werden

Nr.	Name	Gr.	$\alpha_{1923.0}$	$\delta_{1923.0}$	Nr.	Name	Gr.	$\alpha_{1923.0}$	$\delta_{1923.0}$
2	Ceti	6.3	0 3 47 <sup>h m s</sup>	- 2 58.6	317	$\sigma^1$ Tauri	5.2	4 34 45 <sup>h m s</sup>	+15 39.0
3	Ceti	6.3	0 4 16	- 2 52.6	318	$\sigma^2$ Tauri	4.9	4 34 52	+15 46.0
22	Ceti	6.4	0 22 40	- 0 28.5	331	Tauri	5.7	4 52 55	+17 2.0
76	$\nu$ Piscium	5.3	1 13 50	+ 3 12.6	363	Tauri	5.1	5 19 56	+17 18.8
87	$\mu$ Piscium	5.0	1 26 9	+ 5 44.9	366	Tauri	5.3	5 22 41	+17 53.8
104	$\nu$ Piscium	4.7	1 37 25	+ 5 5.9	370	Tauri	6.0	5 23 33	+17 10.6
123	Arietis	6.5	2 0 47	+ 7 22.0	375	Tauri	5.5	5 27 46	+17 0.1
130	Ceti	5.8	2 7 17	+ 8 12.6	381	Tauri	5.5	5 32 36	+16 59.6
133	$\zeta^1$ Ceti	4.5	2 8 55	+ 8 29.2	393	Tauri	5.6	5 42 57	+17 42.1
142	Arietis	6.5	2 23 18	+ 9 51.4	426	Geminorum	6.2	6 9 2	+18 42.1
145	Ceti	6.3	2 25 28	+ 9 13.4	427	Orionis	5.7	6 9 59	+17 55.7
160	Ceti	6.3	2 38 20	+10 24.9	437	Orionis	6.2	6 14 33	+17 21.4
164	$\mu$ Ceti	4.4	2 40 47	+ 9 47.4	441	Orionis	6.5	6 16 56	+17 48.0
197	Tauri	6.2	3 19 56	+12 21.5	467	Geminorum	5.2	6 37 55	+17 43.3
203	$\nu$ Tauri	4.3	3 26 37	+12 40.4	471	Geminorum	6.2	6 42 54	+18 16.7
251	Tauri	5.9	4 3 20	+14 57.5	483	Geminorum	6.2	6 57 57	+17 52.0
261	Tauri	6.3	4 11 24	+15 12.6	484	Geminorum	6.0	6 58 7	+16 47.2
266	$\gamma$ Tauri	3.9	4 15 25	+15 26.6	503	$\lambda$ Geminorum	3.6	7 13 40	+16 40.8
271	Tauri	5.4	4 16 14	+14 54.7	517	Geminorum	5.7	7 27 22	+17 15.1
287	Tauri	6.4	4 21 13	+15 46.0	525	$\nu$ Geminorum	5.3	7 35 2	+17 51.1
289	Tauri	4.6	4 21 57	+15 26.7	540	Cancri	6.0	7 52 37	+15 59.8
293	Tauri	5.2	4 24 2	+16 11.3	541	Cancri	6.0	7 54 8	+16 43.6
296	$\theta^1$ Tauri	4.2	4 24 10	+15 47.5	548	Cancri	5.9	7 57 7	+16 40.1
297	$\theta^2$ Tauri	3.6	4 24 16	+15 42.1	576	Cancri	5.9	8 24 20	+14 28.0
301	Tauri	5.8	4 25 45	+15 28.3	583	Cancri	6.3	8 31 49	+15 34.9
302	Tauri	4.8	4 26 9	+16 1.7	634	Cancri	6.3	9 13 41	+11 49.5
303	Tauri	5.5	4 26 15	+15 31.5	644	$\xi$ Leonis	5.1	9 27 48	+11 38.5
307	Tauri	6.0	4 27 28	+15 41.3	653	$\sigma$ Leonis	3.8	9 37 3	+10 14.6
309	Tauri	6.5	4 29 14	+16 9.8	659	Leonis	6.4	9 43 18	+11 55.5
313	$\alpha$ Tauri Aldebaran	1.1	4 31 30	+16 21.3	660	R Leonis	4.6	9 43 25	+11 47.2
316	Tauri	5.8	4 33 45	+15 52.8	677	A Leonis	4.6	10 3 49	+10 22.5

## I. Verzeichnis von Fixsternen, welche in Mitteleuropa vom Monde bedeckt werden

Nr.	Name	Gr.	$\alpha_{1923.0}$	$\delta_{1923.0}$	Nr.	Name	Gr.	$\alpha_{1923.0}$	$\delta_{1923.0}$
691	Leonis	5.9	10 <sup>h</sup> 21 <sup>m</sup> 12 <sup>s</sup>	+ 9° 10.6	996	$\eta$ Librae	5.5	15 <sup>h</sup> 39 <sup>m</sup> 44 <sup>s</sup>	-15° 25.7
701	Leonis	5.2	10 30 47	+ 7 21.0	1020	Librae	5.4	15 56 0	-16 18.4
702	Leonis	5.7	10 31 0	+ 9 2.9	1073	Scorpii	5.0	16 37 7	-17 35.7
708	Sextantis	6.3	10 42 5	+ 6 46.8	1094	Ophiuchi	6.5	16 55 15	-18 7.8
717	Leonis	6.1	10 52 2	+ 6 35.8	1096	Ophiuchi	6.4	16 57 21	-18 46.4
721	$\epsilon$ Leonis	5.1	10 56 45	+ 6 30.9	1157	Ophiuchi	6.3	17 51 23	-18 47.4
746	Leonis	6.4	11 21 53	+ 4 17.0	1181	Sagittarii	6.3	18 6 41	-19 51.5
748	Leonis	6.3	11 22 51	+ 3 26.0	1212	Sagittarii	5.7	18 25 40	-18 46.7
750	$\tau$ Leonis	5.2	11 23 59	+ 3 16.8	1258	Sagittarii	6.1	18 58 32	-19 21.5
753	Leonis	5.7	11 30 26	+ 3 29.3	1259	Sagittarii	6.4	18 58 36	-19 12.9
767	$\beta$ Virginis	3.8	11 46 41	+ 2 11.9	1266	Sagittarii	6.4	19 2 38	-18 51.5
775	Virginis	6.5	11 55 7	+ 0 57.5	1268	Sagittarii	5.4	19 3 45	-19 24.7
797	Virginis	5.9	12 14 43	- 0 21.6	1278	$d$ Sagittarii	5.0	19 13 8	-19 5.5
799	$\eta$ Virginis	4.0	12 15 58	- 0 14.3	1287	Sagittarii	6.0	19 17 21	-18 27.1
827	Virginis	6.1	12 49 15	- 3 8.1	1305	Sagittarii	5.8	19 32 35	-18 24.2
828	Virginis	6.5	12 49 40	- 3 48.3	1368	Capricorni	6.2	20 31 11	-16 47.5
834	$k$ Virginis	5.7	12 55 41	- 3 23.8	1377	Capricorni	5.9	20 36 13	-16 23.9
835	Virginis	6.1	12 56 38	- 2 57.3	1396	Capricorni	5.9	20 54 26	-14 46.9
837	Virginis	6.5	12 59 56	- 3 14.9	1454	$\lambda$ Capricorni	5.5	21 42 24	-11 43.3
841	$\theta$ Virginis	4.4	13 5 58	- 5 7.7	1517	Aquarii	6.5	22 39 1	- 8 42.9
886	Virginis	6.1	13 50 56	- 7 40.8	1523	$\lambda$ Aquarii	3.8	22 48 36	- 7 59.4
895	Virginis	6.5	14 0 17	- 8 53.3	1527	Aquarii	6.3	22 50 34	- 7 36.9
899	Virginis	5.4	14 2 38	- 8 56.8	1537	Aquarii	6.4	22 57 24	- 7 28.5
902	Virginis	6.5	14 4 54	- 9 58.2	1539	Aquarii	6.4	22 58 33	- 6 59.3
905	$\alpha$ Virginis	4.3	14 8 47	- 9 55.0	1549	$\varphi$ Aquarii	4.4	23 10 20	- 6 27.9
919	Librae	6.3	14 19 17	-11 21.8	1558	Aquarii	5.7	23 15 24	- 5 32.7
921	Librae	6.5	14 20 32	-11 19.2	1560	Aquarii	6.3	23 16 43	- 6 19.7
929	Librae	6.2	14 32 54	-11 58.7	1568	Aquarii	6.4	23 25 33	- 4 57.1
936	Librae	6.4	14 43 43	-12 31.0	1591	Piscium	6.1	23 48 58	- 3 35.0
982	$\gamma$ Librae	4.0	15 31 13	-14 32.0	1602	Piscium	5.1	23 57 53	- 3 27.4

Die auf S. 382—386 angegebenen Nummern beziehen sich auf den Catalogue of Zodiacal Stars by H. B. Hedrick (in Astronomical Papers of the American Ephemeris Vol. VIII, Part III)

## II. Konjunktionszeiten der in Mitteleuropa sichtbaren Sternbedeckungen

Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)		Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)		Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)	
		Jan. I	<sup>h</sup> <sup>m</sup>			Jan. 29	<sup>h</sup> <sup>m</sup>			März 24	<sup>h</sup> <sup>m</sup>
393	5.6	Jan. I	10 19.3	437	6.2	Jan. 29	9 34.7	381	5.5	März 24	8 <sup>h</sup> 34.8 <sup>m</sup>
467	5.2	2	9 49.6	441	6.5	29	10 35.9	503	3.6	26	5 52.9
483	6.2	2	18 17.2	503	3.6	30	10 32.4	576	5.9	27	12 29.3
517	5.7	3	6 40.4	576	5.9	31	15 54.2	634	6.3	28	9 34.2
540	6.0	3	17 17.6	634	6.3	Febr. I	12 24.6	644	5.1	28	15 33.8
576	5.9	4	6 39.5	644	5.1	1	18 18.0	748	6.3	30	16 3.1
644	5.1	5	9 40.9	748	6.3	3	19 3.5	750	5.2	30	16 31.3
653	3.8	5	13 39.5	775	6.5	4	8 58.2	775	6.5	31	5 31.0
701	5.2	6	13 0.9	841	4.4	5	15 44.0	841	4.4	April I	10 49.5
708	6.3	6	17 58.5	902	6.5	6	17 21.2	895	6.5	2	9 1.3
748	6.3	7	11 59.7	1020	5.4	8	17 10.5	902	6.5	2	10 54.1
750	5.2	7	12 29.5	1094	6.5	9	18 26.5	905	4.3	2	12 28.7
905	4.3	10	13 40.6	1157	6.3	10	18 25.7	1266	6.4	7	12 58.2
919	6.3	10	18 15.8	142	6.5	21	5 14.4	1396	5.9	9	15 48.4
921	6.5	10	18 48.8	145	6.3	21	6 22.1	1454	5.5	10	15 8.6
Venus*)	4.3	13	0 49.4	251	5.9	23	7 15.5	293	5.2	19	6 23.6
1527.	6.3	20	5 38.4	261	6.3	23	11 7.5	296	4.2	19	6 27.6
133	4.5	24	14 10.1	331	5.7	24	6 39.9	297	3.6	19	6 30.2
160	6.3	25	5 14.0	393	5.6	25	5 23.7	301	5.8	19	7 13.1
266	3.9	27	4 30.9	467	5.2	26	5 30.9	302	4.8	19	7 24.8
287	6.4	27	7 13.3	484	6.0	26	14 11.5	303	5.5	19	7 27.7
289	4.6	27	7 33.7	540	6.0	27	13 16.5	307	6.0	19	8 2.6
293	5.2	27	8 31.6	644	5.1	März I	4 56.7	309	6.5	19	8 53.4
296	4.2	27	8 35.4	701	5.2	2	7 8.5	363	5.1	20	8 54.4
297	3.6	27	8 37.9	708	6.3	2	11 51.1	370	6.0	20	10 36.1
302	4.8	27	9 30.4	750	5.2	3	5 21.0	427	5.7	21	8 2.2
303	5.5	27	9 33.2	929	6.2	6	12 32.5	437	6.2	21	10 7.6
307	6.0	27	10 6.7	936	6.4	6	17 3.7	441	6.5	21	11 12.9
309	6.5	27	10 55.6	982	4.0	7	12 54.0	483	6.2	22	5 47.4
313	1.1	27	11 58.4	996	5.5	7	16 27.5	540	6.0	23	6 14.4
316	5.8	27	13 0.4	1073	5.0	8	16 27.6	708	6.3	26	8 42.6
363	5.1	28	9 49.7	1212	5.7	10	14 38.6	828	6.5	28	15 6.3
370	6.0	28	11 25.9	87	5.0	19	6 4.3	929	6.2	30	9 16.9
375	5.5	28	13 17.5	316	5.8	23	4 59.8	936	6.4	30	13 36.3
427	5.7	29	7 37.2	318	4.9	23	5 32.0	996	5.5	Mai 1	11 47.7

\*) Konjunktion am Tage.



## II. Konjunktionszeiten der in Mitteleuropa sichtbaren Sternbedeckungen

Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)		Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)		Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)	
1073	5.0	Mai 2	10 <sup>h</sup> 20.5 <sup>m</sup>	1537	6.4	Juli 30	11 <sup>h</sup> 1.5 <sup>m</sup>	266	3.9	Sept. 2	14 <sup>h</sup> 30.5 <sup>m</sup>
644	5.1	22	6 39.1	1539	6.4	30	11 36.0	271	5.4	2	14 54.7
701	5.2	23	10 56.9	1591	6.1	31	13 9.8	1020	5.4	15	8 10.9
748	6.3	24	10 13.5	123	6.5	Aug. 3	10 17.2	1094	6.5	16	8 31.9
750	5.2	24	10 43.4	130	5.8	3	13 41.0	1377	5.9	20	6 35.2
797	5.9	25	9 7.2	133	4.5	3	14 32.2	Uranus	6.1	23	6 21.9
841	4.4	26	7 17.2	301	5.8	6	11 21.5	1549	4.4	23	8 34.4
899	5.4	27	7 8.8	302	4.8	6	11 33.1	1560	6.3	23	11 48.5
902	6.5	27	8 5.1	303	5.5	6	11 36.0	1568	6.4	23	16 18.7
905	4.3	27	9 41.4	307	6.0	6	12 10.8	145	6.3	27	14 7.6
921	6.5	27	14 31.9	309	6.5	6	13 1.5	251	5.9	29	15 53.5
1278	5.0	Juni 1	10 57.9	313	1.1	6	14 6.8	317	5.2	30	7 21.4
1287	6.0	1	12 42.8	316	5.8	6	15 11.2	318	4.9	30	7 24.7
1523	3.8	5	13 50.6	317	5.2	6	15 40.0	331	5.7	30	16 10.8
1527	6.3	5	14 50.5	318	4.9	6	15 43.3	393	5.6	Ok. 1	16 2.0
160	6.3	10	14 34.2	363	5.1	7	12 51.7	467	5.2	2	17 34.8
827	6.1	22	6 49.9	370	6.0	7	14 32.1	517	5.7	3	16 4.2
828	6.5	22	7 1.1	441	6.5	8	14 44.0	677	4.6	6	13 20.4
936	6.4	24	8 16.6	753	5.7	14	7 16.8	982	4.0	12	6 23.3
996	5.5	25	7 22.9	Saturn*)	1.1	16	0 8.1	1305	5.8	16	8 8.5
1020	5.4	25	13 58.3	1258	6.1	22	6 18.7	1368	6.2	17	9 48.6
1094	6.5	26	13 39.9	1259	6.4	22	6 20.2	1527	6.3	20	4 24.3
1096	6.4	26	14 29.9	1266	6.4	22	8 2.5	1537	6.4	20	7 51.8
1258	6.1	28	14 51.3	1268	5.4	22	8 30.9	1539	6.4	20	8 26.9
1259	6.4	28	14 52.7	1278	5.0	22	12 29.2	Uranus	6.1	20	10 31.0
Uranus	6.1	Juli 3	11 29.5	1517	6.5	26	10 2.6	1591	6.1	21	10 24.5
1558	5.7	3	11 34.3	1523	3.8	26	14 45.6	22	6.4	22	4 3.7
1560	6.3	3	12 14.2	1527	6.3	26	15 43.8	123	6.5	24	7 44.0
145	6.3	7	15 19.0	1568	6.4	27	9 16.0	130	5.8	24	11 7.7
717	6.1	17	7 23.4	22	6.4	28	14 38.6	133	4.5	24	11 58.8
767	3.8	18	7 58.9	160	6.3	31	13 35.4	287	6.4	27	7 9.7
982	4.0	22	10 31.3	164	4.4	31	14 51.1	289	4.6	27	7 31.3
1305	5.8	26	13 41.5	197	6.2	Sept. 1	10 52.6	293	5.2	27	8 32.6
1368	6.2	27	14 46.6	203	4.3	1	14 15.4	296	4.2	27	8 36.7
1527	6.3	30	7 38.2	261	6.3	2	12 32.5	297	3.6	27	8 39.4

\*) Konjunktion am Tage.

## II. Konjunktionszeiten der in Mitteleuropa sichtbaren Sternbedeckungen

Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)		Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)		Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)	
301	5.8	Okt. 27	9 <sup>h</sup> 23 <sup>m</sup> .1	197	6.2	Nov. 22	6 <sup>h</sup> 40 <sup>m</sup> .1	797	5.9	Dez. 2	17 <sup>h</sup> 36 <sup>m</sup> .5
302	4.8	27	9 35.0	251	5.9	23	4 23.9	799	4.0	2	18 9.9
303	5.5	27	9 38.0	261	6.3	23	8 22.5	837	6.5	3	13 38.2
307	6.0	27	10 13.6	266	3.9	23	10 20.9	895	6.5	4	15 28.6
309	6.5	27	11 5.5	287	6.4	23	13 12.0	899	5.4	4	16 27.9
313	1.1	27	12 12.3	289	4.6	23	13 33.5	1560	6.3	14	6 14.7
316	5.8	27	13 18.2	293	5.2	23	14 34.6	1602	5.1	15	3 18.1
363	5.1	28	11 38.6	296	4.2	23	14 38.6	2	6.3	15	6 22.4
366	5.3	28	12 57.5	297	3.6	23	14 41.3	3	6.3	15	6 37.0
370	6.0	28	13 22.8	302	4.8	23	15 36.7	104	4.7	17	7 47.0
427	5.7	29	11 22.5	307	6.0	23	16 15.1	145	6.3	18	9 4.6
441	6.5	29	14 38.4	309	6.5	23	17 6.8	197	6.2	19	13 8.1
483	6.2	30	9 45.2	313	1.1	23	18 13.3	251	5.9	20	10 53.1
541	6.0	31	11 39.2	331	5.7	24	4 36.2	261	6.3	20	14 51.5
548	5.9	31	13 1.3	363	5.1	24	17 32.7	266	3.9	20	16 49.8
659	6.4	Nov. 2	13 21.8	366	5.3	24	18 51.2	331	5.7	21	11 1.9
660	4.6	2	13 25.2	426	6.2	25	16 43.8	393	5.6	22	10 44.2
753	5.7	4	13 14.3	427	5.7	25	17 10.4	471	6.2	23	14 31.7
1181	6.3	11	5 14.3	471	6.2	26	8 31.8	525	5.3	24	14 25.4
1268	5.4	12	3 53.6	483	6.2	26	15 31.4	583	6.3	25	16 25.8
1278	5.0	12	7 41.8	525	5.3	27	8 42.0	677	4.6	27	10 59.0
1517	6.5	16	4 22.0	541	6.0	27	17 32.1	691	5.9	27	19 5.3
1523	3.8	16	9 9.2	548	5.9	27	18 54.8	721	5.1	28	11 42.6
22	6.4	18	9 50.4	583	6.3	28	10 57.8	834	5.7	30	18 46.9
76	5.3	19	12 58.0	691	5.9	30	13 39.8	835	6.1	30	19 12.5
123	6.5	20	13 47.1	702	5.7	30	18 12.1	886	6.1	31	19 26.9
160	6.3	21	9 22.0	746	6.4	Dez. 1	17 38.3				

Verfinsterungen: E. Eintritte, A. Austritte

TRABANT I			TRABANT I			TRABANT I			TRABANT I							
Jan.	<sup>h</sup> 0	<sup>m</sup> 1.3	E.	März	<sup>h</sup> 27	<sup>m</sup> 7.2	E.	Juni	<sup>h</sup> 22	<sup>m</sup> 17 30.8	A.	Sept.	<sup>h</sup> 17	<sup>m</sup> 10 57.4	A.	
	1	23 29.6	E.		29	16 35.5	E.		24	11 59.4	A.		19	5 26.2	A.	
	3	17 57.9	E.		31	11 3.8	E.		26	6 28.1	A.		20	23 54.9	A.	
	5	12 26.4	E.	April	2	5 32.1	E.		28	0 56.7	A.		22	18 23.6	A.	
	7	6 54.6	E.		4	0 0.4	E.		29	19 25.3	A.		24	12 52.3	A.	
	9	1 23.0	E.		5	18 28.8	E.	Juli	1	13 54.0	A.		26	7 21.1	A.	
	10	19 51.3	E.		7	12 57.1	E.		3	8 22.6	A.		28	1 49.8	A.	
	12	14 19.7	E.		9	7 25.4	E.		5	2 51.3	A.		29	20 18.5	A.	
	14	8 47.9	E.		11	1 53.8	E.		6	21 20.0	A.	Okt.	1	14 47.2	A.	
	16	3 16.3	E.		12	20 22.1	E.		8	15 48.6	A.		3	9 16.0	A.	
	17	21 44.5	E.		14	14 50.5	E.		10	10 17.3	A.		5	3 44.7	A.	
	19	16 12.9	E.		16	9 18.8	E.		12	4 46.0	A.		6	22 13.4	A.	
	21	10 41.1	E.		18	3 47.2	E.		13	23 14.7	A.		8	16 42.0	A.	
	23	5 9.5	E.		19	22 15.5	E.		15	17 43.4	A.		10	11 10.8	A.	
	24	23 37.7	E.		21	16 43.9	E.		17	12 12.1	A.		12	5 39.5	A.	
	26	18 5.9	E.		23	11 12.3	E.		19	6 40.7	A.		14	0 8.2	A.	
	28	12 34.3	E.		25	5 40.7	E.		21	1 9.5	A.		15	18 36.9	A.	
	30	7 2.6	E.		27	0 9.0	E.		22	19 38.1	A.		17	13 5.6	A.	
Febr.	1	1 30.8	E.		28	18 37.4	E.		24	14 6.8	A.		19	7 34.2	A.	
	2	19 59.2	E.		30	13 5.9	E.		26	8 35.5	A.		21	2 3.0	A.	
	4	14 27.4	E.	Mai	2	7 34.3	E.		28	3 4.3	A.		22	20 31.6	A.	
	6	8 55.7	E.		4	2 2.7	E.		29	21 33.0	A.		24	15 0.3	A.	
	8	3 24.0	E.		5	22 40.4	A.		31	16 1.7	A.		26	9 29.0	A.	
	9	21 52.3	E.		7	17 8.8	A.	Aug.	2	10 30.4	A.		28	3 57.7	A.	
	11	16 20.5	E.		9	11 37.3	A.		4	4 59.1	A.		29	22 26.3	A.	
	13	10 48.8	E.		11	6 5.7	A.		5	23 27.8	A.					
	15	5 17.0	E.		13	0 34.2	A.		7	17 56.6	A.	Dez.	18	9 36.5	E.	
	16	23 45.3	E.		14	19 2.7	A.		9	12 25.3	A.		20	4 5.1	E.	
	18	18 13.6	E.		16	13 31.1	A.		11	6 54.0	A.		21	22 33.6	E.	
	20	12 41.8	E.		18	7 59.6	A.		13	1 22.7	A.		23	17 2.2	E.	
	22	7 10.1	E.		20	2 28.1	A.		14	19 51.5	A.		25	11 30.6	E.	
	24	1 38.4	E.		21	20 56.6	A.		16	14 20.2	A.		27	5 59.2	E.	
	25	20 6.6	E.		23	15 25.1	A.		18	8 49.0	A.		29	0 27.6	E.	
	27	14 34.9	E.		25	9 53.6	A.		20	3 17.7	A.		30	18 56.2	E.	
März	1	9 3.1	E.		27	4 22.1	A.		21	21 46.5	A.					
	3	3 31.4	E.		28	22 50.7	A.		23	16 15.1	A.					
	4	21 59.6	E.		30	17 19.2	A.		25	10 43.9	A.					
	6	16 27.9	E.	Juni	1	11 47.7	A.		27	5 12.6	A.		Jan.	3	4 49.4	E.
	8	10 56.2	E.		3	6 16.3	A.		28	23 41.4	A.		6	18 6.4	E.	
	10	5 24.4	E.		5	0 44.8	A.		30	18 10.1	A.		10	7 23.2	E.	
	11	23 52.7	E.		6	19 13.4	A.	Sept.	1	12 38.9	A.		13	20 40.3	E.	
	13	18 21.0	E.		8	13 42.0	A.		3	7 7.5	A.		17	9 57.2	E.	
	15	12 49.2	E.		10	8 10.6	A.		5	1 36.3	A.		20	23 14.4	E.	
	17	7 17.5	E.		12	2 39.1	A.		6	20 5.0	A.		21	1 37.8	A.	
	19	1 45.8	E.		13	21 7.7	A.		8	14 33.8	A.		24	12 31.3	E.	
	20	20 14.1	E.		15	15 36.3	A.		10	9 2.5	A.		24	14 54.7	A.	
	22	14 42.3	E.		17	10 4.9	A.		12	3 31.3	A.		28	1 48.6	E.	
	24	9 10.7	E.		19	4 33.6	A.		13	21 59.9	A.		28	4 11.9	A.	
	26	3 38.9	E.		20	23 2.2	A.		15	16 28.7	A.		31	15 5.5	E.	
													31	17 28.8	A.	

TRABANT II			
Jan.	<sup>h</sup> 3	<sup>m</sup> 4 49.4	E.
	6	18 6.4	E.
	10	7 23.2	E.
	13	20 40.3	E.
	17	9 57.2	E.
	20	23 14.4	E.
	21	1 37.8	A.
	24	12 31.3	E.
	24	14 54.7	A.
	28	1 48.6	E.
	28	4 11.9	A.
	31	15 5.5	E.
	31	17 28.8	A.





# Saturn und Saturnsring 1923

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Mittlere Zeit Greenwich	$\alpha$	$\beta$	$p_a$	$a$	$b$	$U'$	$B'$	$P'$
1923								
Jan. 0.5	17.10	15.40	-0.04	38.53	+7.88	23.609	+ 9.344	-25.583
4.5	17.22	15.51	0.04	38.80	7.98	23.730	9.400	25.558
8.5	17.34	15.62	0.05	39.06	8.07	23.851	9.456	25.533
12.5	17.46	15.73	0.05	39.33	8.15	23.971	9.512	25.507
15.5	17.58	15.84	0.05	39.60	8.22	24.092	9.568	25.482
20.5	17.70	15.95	-0.04	39.88	+8.29	24.213	+ 9.623	-25.456
24.5	17.82	16.06	0.04	40.16	8.35	24.333	9.679	25.430
28.5	17.95	16.17	0.04	40.43	8.40	24.454	9.734	25.404
Febr. 1.5	18.07	16.28	-0.04	40.70	8.44	24.575	9.790	25.378
5.5	18.19	16.39	0.04	40.97	8.48	24.696	9.845	25.352
9.5	18.30	16.49	-0.03	41.24	+8.50	24.816	+ 9.901	-25.326
13.5	18.42	16.59	0.03	41.50	8.52	24.937	9.956	25.299
17.5	18.53	16.69	0.03	41.74	8.52	25.058	10.012	25.273
21.5	18.64	16.78	0.03	41.97	8.52	25.179	10.067	25.246
25.5	18.74	16.87	0.02	42.20	8.50	25.300	10.123	25.219
März 1.5	18.83	16.95	-0.02	42.41	+8.48	25.421	+10.178	-25.192
5.5	18.91	17.02	0.02	42.60	8.44	25.542	10.233	25.165
9.5	18.99	17.09	0.01	42.78	8.40	25.663	10.288	25.138
13.5	19.06	17.15	0.01	42.93	8.34	25.784	10.343	25.111
17.5	19.12	17.20	0.01	43.07	8.28	25.905	10.398	25.083
21.5	19.16	17.24	-0.01	43.19	+8.20	26.026	+10.453	-25.056
25.5	19.20	17.28	0.00	43.27	8.12	26.147	10.507	25.028
29.5	19.23	17.30	0.00	43.33	8.04	26.268	10.562	25.000
April 2.5	19.25	17.32	0.00	43.37	7.96	26.389	10.617	24.972
6.5	19.25	17.32	0.00	43.38	7.87	26.510	10.672	24.944
10.5	19.25	17.32	0.00	43.38	+7.77	26.631	+10.726	-24.916
14.5	19.24	17.30	0.00	43.35	7.66	26.752	10.781	24.888
18.5	19.22	17.28	0.00	43.29	7.56	26.872	10.835	24.859
22.5	19.18	17.24	0.00	43.21	7.46	26.993	10.890	24.831
26.5	19.13	17.19	+0.01	43.10	7.36	27.114	10.944	24.802
30.5	19.08	17.14	+0.01	42.97	+7.26	27.235	+10.999	-24.774
Mai 4.5	19.02	17.08	0.01	42.83	7.16	27.356	11.053	24.745
8.5	18.94	17.01	0.01	42.67	7.06	27.477	11.107	24.716
12.5	18.86	16.94	0.02	42.49	6.96	27.598	11.161	24.687
16.5	18.77	16.86	0.02	42.29	6.87	27.719	11.215	24.658
20.5	18.68	16.78	+0.03	42.07	+6.78	27.840	+11.269	-24.628
24.5	18.57	16.69	0.03	41.84	6.70	27.962	11.323	24.599
28.5	18.46	16.59	0.03	41.60	6.63	28.083	11.376	24.569
Juni 1.5	18.35	16.49	0.04	41.35	6.57	28.204	11.430	24.540
5.5	18.24	16.39	0.04	41.09	6.51	28.325	11.484	24.510
9.5	18.13	16.29	+0.04	40.83	+6.46	28.446	+11.538	-24.480
13.5	18.01	16.18	0.04	40.56	6.42	28.568	11.591	24.450
17.5	17.89	16.07	0.04	40.29	6.39	28.689	11.645	24.420
21.5	17.77	15.96	0.05	40.01	6.37	28.810	11.698	24.390
25.5	17.65	15.85	0.05	39.74	6.35	28.931	11.751	24.360
29.5	17.52	15.74	+0.05	39.46	+6.33	29.053	+11.804	-24.329
Juli 3.5	17.40	15.64	0.05	39.19	6.33	29.174	11.857	24.299

Mittlere Zeit (Greenwich)		$\alpha$	$\beta$	$p_a$	$\alpha$	$b$	$U'$	$B'$	$P'$
1923									
Juli	3.5	17.40	15.64	+0.05	39.19	+ 6.33	29.174	+11.857	-24.299
	7.5	17.28	15.53	0.05	38.92	6.33	29.296	11.910	24.268
	11.5	17.16	15.43	0.05	38.65	6.34	29.417	11.963	24.237
	15.5	17.04	15.33	0.05	38.39	6.35	29.539	12.016	24.206
	19.5	16.93	15.23	0.04	38.14	6.38	29.660	12.069	24.175
	23.5	16.82	15.13	+0.04	37.89	+ 6.41	29.782	+12.122	-24.144
	27.5	16.71	15.03	0.04	37.65	6.45	29.903	12.175	24.113
	31.5	16.61	14.93	0.04	37.42	6.49	30.025	12.228	24.082
Aug.	4.5	16.51	14.84	0.04	37.20	6.54	30.146	12.281	24.051
	8.5	16.42	14.76	0.03	36.98	6.59	30.268	12.334	24.019
	12.5	16.33	14.68	+0.03	36.78	+ 6.65	30.389	+12.387	-23.988
	16.5	16.24	14.61	0.03	36.58	6.71	30.511	12.439	23.956
	20.5	16.16	14.54	0.02	36.40	6.78	30.632	12.492	23.924
	24.5	16.08	14.47	0.02	36.22	6.85	30.754	12.544	23.892
	28.5	16.01	14.41	0.02	36.06	6.93	30.875	12.596	23.860
Sept.	1.5	15.95	14.35	+0.02	35.91	+ 7.01	30.997	+12.648	-23.827
	5.5	15.89	14.30	0.01	35.77	7.09	31.118	12.701	23.795
	9.5	15.83	14.25	0.01	35.64	7.18	31.240	12.753	23.762
	13.5	15.78	14.21	0.01	35.52	7.27	31.362	12.805	23.730
	17.5	15.73	14.17	0.01	35.42	7.37	31.484	12.857	23.697
	21.5	15.69	14.14	+0.01	35.34	+ 7.47	31.605	+12.909	-23.664
	25.5	15.66	14.11	0.00	35.26	7.57	31.727	12.961	23.631
	29.5	15.63	14.08	0.00	35.20	7.67	31.849	13.013	23.598
Okt.	3.5	15.61	14.06	0.00	35.15	7.78	31.971	13.065	23.565
	7.5	15.59	14.05	0.00	35.12	7.89	32.093	13.117	23.532
	11.5	15.58	14.04	0.00	35.09	+ 8.00	32.214	+13.169	-23.498
	15.5	15.57	14.04	0.00	35.08	8.11	32.336	13.221	23.465
	19.5	15.57	14.05	0.00	35.08	8.23	32.458	13.272	23.431
	23.5	15.58	14.06	0.00	35.09	8.35	32.580	13.323	23.398
	27.5	15.59	14.07	0.00	35.12	8.47	32.702	13.374	23.364
	31.5	15.61	14.09	0.00	35.16	+ 8.59	32.824	+13.425	-23.330
Nov.	4.5	15.63	14.12	0.00	35.22	8.72	32.946	13.475	23.296
	8.5	15.66	14.15	-0.01	35.29	8.84	33.068	13.526	23.262
	12.5	15.70	14.18	0.01	35.37	8.97	33.190	13.576	23.228
	16.5	15.74	14.22	0.01	35.46	9.10	33.312	13.627	23.194
	20.5	15.79	14.26	-0.01	35.57	+ 9.23	33.434	+13.677	-23.159
	24.5	15.85	14.31	0.01	35.69	9.35	33.556	13.728	23.125
	28.5	15.91	14.37	0.02	35.82	9.48	33.678	13.779	23.091
Dez.	2.5	15.97	14.43	0.02	35.96	9.60	33.800	13.830	23.057
	6.5	16.04	14.50	0.02	36.12	9.73	33.922	13.881	23.022
	10.5	16.11	14.57	-0.02	36.29	+ 9.85	34.044	+13.932	-22.987
	14.5	16.19	14.64	0.03	36.48	9.97	34.166	13.982	22.951
	18.5	16.28	14.72	0.03	36.68	10.10	34.288	14.033	22.916
	22.5	16.38	14.80	0.03	36.89	10.22	34.411	14.084	22.880
	26.5	16.47	14.89	0.03	37.10	10.34	34.534	14.134	22.845
	30.5	16.57	14.98	-0.04	37.31	+10.46	34.656	+14.185	-22.810
	34.5	16.67	15.08	0.04	37.53	10.57	34.778	14.235	22.774



# Saturn und Saturnsring 1923

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Mittlere Zeit Greenwich	U	B	P	Mittlere Zeit Greenwich	U	B	P
1923				1923			
Jan. 0.5	71.144	+11.809	-2.212	März 31.5	69.331	+10.638	-2.410
2.5	71.237	11.843	2.201	April 2.5	69.190	10.572	2.426
4.5	71.324	11.872	2.191	4.5	69.048	10.506	2.442
6.5	71.404	11.898	2.182	6.5	68.906	10.440	2.458
8.5	71.479	11.920	2.174	8.5	68.763	10.374	2.474
10.5	71.547	+11.940	-2.166	10.5	68.621	+10.308	-2.489
12.5	71.609	11.957	2.159	12.5	68.480	10.243	2.505
14.5	71.665	11.971	2.153	14.5	68.339	10.179	2.521
16.5	71.714	11.982	2.148	16.5	68.199	10.116	2.537
18.5	71.757	11.991	2.143	18.5	68.061	10.054	2.553
20.5	71.793	+11.997	-2.138	20.5	67.924	+ 9.993	-2.568
22.5	71.822	12.000	2.135	22.5	67.788	9.934	2.582
24.5	71.845	12.000	2.133	24.5	67.654	9.876	2.596
26.5	71.861	11.997	2.131	26.5	67.523	9.819	2.609
28.5	71.870	11.992	2.129	28.5	67.394	9.764	2.623
30.5	71.872	+11.984	-2.129	30.5	67.268	+ 9.710	-2.636
Febr. 1.5	71.868	11.972	2.130	Mai 2.5	67.146	9.658	2.650
3.5	71.857	11.957	2.131	4.5	67.027	9.607	2.663
5.5	71.840	11.939	2.133	6.5	66.912	9.558	2.675
7.5	71.816	11.918	2.135	8.5	66.802	9.511	2.687
9.5	71.787	+11.895	-2.138	10.5	66.695	+ 9.466	-2.699
11.5	71.752	11.869	2.142	12.5	66.593	9.424	2.710
13.5	71.709	11.840	2.147	14.5	66.495	9.384	2.721
15.5	71.660	11.809	2.153	16.5	66.401	9.347	2.731
17.5	71.604	11.776	2.159	18.5	66.312	9.313	2.741
19.5	71.542	+11.740	-2.166	20.5	66.228	+ 9.281	-2.750
21.5	71.475	11.702	2.174	22.5	66.149	9.252	2.758
23.5	71.402	11.662	2.182	24.5	66.076	9.225	2.765
25.5	71.323	11.619	2.191	26.5	66.008	9.201	2.772
27.5	71.239	11.575	2.200	28.5	65.945	9.180	2.778
März 1.5	71.149	+11.528	-2.210	30.5	65.889	+ 9.161	-2.785
3.5	71.054	11.479	2.220	Juni 1.5	65.838	9.145	2.791
5.5	70.955	11.428	2.231	3.5	65.793	9.132	2.796
7.5	70.851	11.375	2.242	5.5	65.753	9.122	2.801
9.5	70.743	11.320	2.254	7.5	65.719	9.115	2.804
11.5	70.631	+11.264	-2.267	9.5	65.891	+ 9.111	-2.807
13.5	70.515	11.206	2.280	11.5	65.669	9.110	2.809
15.5	70.394	11.147	2.293	13.5	65.654	9.113	2.811
17.5	70.270	11.086	2.307	15.5	65.645	9.118	2.812
19.5	70.142	11.024	2.321	17.5	65.642	9.126	2.812
21.5	70.012	+10.961	-2.336	19.5	65.645	+ 9.137	-2.812
23.5	69.879	10.897	2.350	21.5	65.654	9.151	2.812
25.5	69.744	10.833	2.365	23.5	65.668	9.168	2.810
27.5	69.608	10.768	2.380	25.5	65.689	9.187	2.808
29.5	69.470	10.703	2.395	27.5	65.716	9.209	2.805
31.5	69.331	+10.638	-2.410	29.5	65.748	+ 9.233	-2.802

Mittlere Zeit Greenwich	U	B	P	Mittlere Zeit Greenwich	U	B	P
1923				1923			
Juni 29.5	65.748	+ 9.233	- 2.802	Okt. 1.5	72.725	+ 12.694	- 2.034
Juli 1.5	65.787	9.261	2.798	3.5	72.949	12.792	2.009
3.5	65.832	9.291	2.793	5.5	73.175	12.891	1.983
5.5	65.883	9.324	2.787	7.5	73.402	12.989	1.957
7.5	65.940	9.360	2.781	9.5	73.629	13.087	1.931
9.5	66.002	+ 9.399	- 2.774	11.5	73.856	+ 13.185	- 1.906
11.5	66.071	9.440	2.767	13.5	74.084	13.283	1.880
13.5	66.145	9.484	2.759	15.5	74.313	13.380	1.854
15.5	66.224	9.530	2.751	17.5	74.542	13.477	1.828
17.5	66.309	9.579	2.742	19.5	74.772	13.573	1.802
19.5	66.399	+ 9.631	- 2.732	21.5	75.002	+ 13.669	- 1.775
21.5	66.494	9.685	2.721	23.5	75.231	13.765	1.748
23.5	66.596	9.741	2.710	25.5	75.461	13.860	1.721
25.5	66.703	9.799	2.699	27.5	75.690	13.954	1.695
27.5	66.815	9.859	2.687	29.5	75.919	14.047	1.669
29.5	66.932	+ 9.921	- 2.674	31.5	76.148	+ 14.140	- 1.643
Aug. 31.5	67.054	9.986	2.661	Nov. 2.5	76.376	14.231	1.617
2.5	67.181	10.053	2.647	4.5	76.603	14.322	1.592
4.5	67.313	10.122	2.633	6.5	76.829	14.411	1.566
6.5	67.449	10.193	2.618	8.5	77.053	14.500	1.540
8.5	67.589	+ 10.267	- 2.603	10.5	77.276	+ 14.588	- 1.514
10.5	67.734	10.342	2.587	12.5	77.497	14.674	1.488
12.5	67.884	10.418	2.571	14.5	77.717	14.759	1.463
14.5	68.038	10.496	2.554	16.5	77.935	14.843	1.438
16.5	68.196	10.575	2.537	18.5	78.151	14.925	1.413
18.5	68.358	+ 10.656	- 2.519	20.5	78.365	+ 15.006	- 1.388
20.5	68.524	10.738	2.501	22.5	78.577	15.086	1.363
22.5	68.694	10.822	2.482	24.5	78.786	15.164	1.339
24.5	68.868	10.907	2.463	26.5	78.993	15.241	1.314
26.5	69.045	10.993	2.443	28.5	79.197	15.316	1.290
28.5	69.226	+ 11.081	- 2.423	30.5	79.398	+ 15.390	- 1.267
Sept. 30.5	69.411	11.170	2.403	Dez. 2.5	79.596	15.462	1.244
1.5	69.599	11.259	2.382	4.5	79.791	15.533	1.221
3.5	69.790	11.350	2.361	6.5	79.982	15.602	1.199
5.5	69.983	11.441	2.340	8.5	80.170	15.669	1.177
7.5	70.180	+ 11.533	- 2.318	10.5	80.355	+ 15.735	- 1.156
9.5	70.379	11.627	2.296	12.5	80.536	15.799	1.134
11.5	70.581	11.722	2.273	14.5	80.712	15.860	1.113
13.5	70.786	11.817	2.250	16.5	80.884	15.919	1.093
15.5	70.993	11.913	2.227	18.5	81.052	15.976	1.074
17.5	71.203	+ 12.010	- 2.204	20.5	81.215	+ 16.031	- 1.054
19.5	71.415	12.107	2.180	22.5	81.374	16.084	1.035
21.5	71.629	12.204	2.156	24.5	81.528	16.134	1.017
23.5	71.845	12.302	2.132	26.5	81.678	16.182	1.000
25.5	72.063	12.400	2.108	28.5	81.822	16.228	0.982
27.5	72.282	+ 12.498	- 2.084	30.5	81.961	+ 16.272	- 0.965
29.5	72.503	12.596	2.059	32.5	82.095	16.314	0.949
Okt. 1.5	72.725	12.694	2.034	34.5	82.224	16.356	0.934

Mittlere Zeit Greenwich	L	M	log $\frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	Mittlere Zeit Greenwich	L	M	log $\frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$
<b>MIMAS</b>					<b>MIMAS</b>				
1923					1923				
Jan. 0.5	280.003	209.82	1.41918	+ 5.37	März 19.5	195.337	47.15	1.46811	+ 5.62
2.5	323.986	251.80	1.42064	+ 5.41	21.5	239.320	89.14	1.46864	+ 5.59
4.5	7.969	293.78	1.42212	+ 5.44	23.5	283.302	131.12	1.46911	+ 5.56
6.5	51.953	335.77	1.42361	+ 5.47	25.5	327.285	173.10	1.46953	+ 5.53
8.5	95.936	17.75	1.42511	+ 5.50	27.5	11.268	215.08	1.46989	+ 5.51
10.5	139.919	59.73	1.42661	+ 5.52	29.5	55.250	257.06	1.47018	+ 5.48
12.5	183.902	101.72	1.42812	+ 5.55	31.5	99.233	299.05	1.47042	+ 5.45
14.5	227.885	143.70	1.42963	+ 5.57	April 2.5	143.216	341.03	1.47059	+ 5.42
16.5	271.868	185.69	1.43115	+ 5.60	4.5	187.199	23.01	1.47070	+ 5.39
18.5	315.851	227.67	1.43267	+ 5.62	6.5	231.182	65.00	1.47075	+ 5.35
20.5	359.834	269.65	1.43418	+ 5.64	8.5	275.164	106.98	1.47074	+ 5.32
22.5	43.817	311.63	1.43569	+ 5.66	10.5	319.147	148.96	1.47065	+ 5.28
24.5	87.800	353.61	1.43719	+ 5.68	12.5	3.130	190.94	1.47053	+ 5.25
26.5	131.783	35.60	1.43868	+ 5.70	14.5	47.112	232.92	1.47034	+ 5.21
28.5	175.766	77.58	1.44017	+ 5.72	16.5	91.095	274.91	1.47009	+ 5.18
30.5	219.749	119.56	1.44164	+ 5.73	18.5	135.078	316.89	1.46977	+ 5.15
Febr. 1.5	263.732	161.55	1.44310	+ 5.74	20.5	179.060	358.87	1.46939	+ 5.12
3.5	307.715	203.53	1.44454	+ 5.75	22.5	223.043	40.86	1.46895	+ 5.08
5.5	351.698	245.51	1.44596	+ 5.76	24.5	267.026	82.84	1.46846	+ 5.05
7.5	35.680	287.49	1.44737	+ 5.77	26.5	311.008	124.82	1.46791	+ 5.01
9.5	79.663	329.47	1.44875	+ 5.78	28.5	354.991	166.80	1.46730	+ 4.98
11.5	123.646	11.46	1.45011	+ 5.79	30.5	38.974	208.78	1.46664	+ 4.94
13.5	167.629	53.44	1.45144	+ 5.80	Mai 2.5	82.956	250.77	1.46593	+ 4.91
15.5	211.612	95.42	1.45275	+ 5.80	4.5	126.939	292.75	1.46517	+ 4.87
17.5	255.595	137.41	1.45402	+ 5.80	6.5	170.921	334.73	1.46436	+ 4.84
19.5	299.578	179.39	1.45526	+ 5.81	8.5	214.904	16.72	1.46349	+ 4.80
21.5	343.561	221.37	1.45646	+ 5.81	10.5	258.887	58.70	1.46258	+ 4.77
23.5	27.543	263.35	1.45763	+ 5.80	12.5	302.869	100.68	1.46162	+ 4.74
25.5	71.526	305.33	1.45876	+ 5.79	14.5	346.851	142.66	1.46062	+ 4.71
27.5	115.509	347.32	1.45984	+ 5.78	16.5	30.834	184.64	1.45958	+ 4.68
März 1.5	159.492	29.30	1.46089	+ 5.77	18.5	74.817	226.63	1.45849	+ 4.65
3.5	203.475	71.28	1.46189	+ 5.76	20.5	118.799	268.61	1.45737	+ 4.62
5.5	247.458	113.27	1.46285	+ 5.75	22.5	162.781	310.59	1.45621	+ 4.59
7.5	291.440	155.25	1.46375	+ 5.74	24.5	206.764	352.58	1.45501	+ 4.57
9.5	335.423	197.23	1.46461	+ 5.72	26.5	250.747	34.56	1.45378	+ 4.55
11.5	19.406	239.22	1.46542	+ 5.70	28.5	294.729	76.54	1.45252	+ 4.53
13.5	63.388	281.20	1.46617	+ 5.68	30.5	338.711	118.52	1.45123	+ 4.51
15.5	107.371	323.18	1.46687	+ 5.66	Juni 1.5	22.694	160.50	1.44991	+ 4.48
17.5	151.354	5.17	1.46752	+ 5.64	3.5	66.677	202.49	1.44857	+ 4.46
19.5	195.337	47.15	1.46811	+ 5.62	5.5	110.659	244.47	1.44720	+ 4.44



Mittlere Zeit Greenwich	<i>L</i>	<i>M</i>	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	Mittlere Zeit Greenwich	<i>L</i>	<i>M</i>	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin L$		
<b>MIMAS</b>					<b>ENCELADUS</b>						
1923					1923						
Juni	5.5	110.659	244.47	1.44720	+ 4.44	Jan.	0.5	341.711	313.7	1.52739	+ 6.89
	7.5	154.641	286.45	1.44581	+ 4.42		2.5	147.178	118.5	1.52885	+ 6.94
	9.5	198.624	328.44	1.44441	+ 4.41		4.5	312.644	283.2	1.53033	+ 6.98
	11.5	242.606	10.42	1.44298	+ 4.40		6.5	118.110	88.0	1.53182	+ 7.02
	13.5	286.589	52.40	1.44154	+ 4.38		8.5	283.576	252.8	1.53332	+ 7.05
	15.5	330.571	94.38	1.44008	+ 4.37		10.5	89.042	57.6	1.53482	+ 7.09
	17.5	14.553	136.36	1.43861	+ 4.36		12.5	254.509	222.4	1.53633	+ 7.12
	19.5	58.536	178.35	1.43713	+ 4.35		14.5	59.975	27.2	1.53784	+ 7.16
	21.5	102.518	220.33	1.43564	+ 4.34		16.5	225.441	192.0	1.53936	+ 7.19
	23.5	146.500	262.31	1.43415	+ 4.33		18.5	30.907	356.8	1.54088	+ 7.22
	25.5	190.482	304.29	1.43265	+ 4.32		20.5	196.373	161.5	1.54239	+ 7.25
	27.5	234.465	346.27	1.43115	+ 4.31		22.5	1.839	326.3	1.54390	+ 7.28
	29.5	278.447	28.25	1.42963	+ 4.31		24.5	167.306	131.1	1.54540	+ 7.30
Juli	1.5	322.429	70.24	1.42812	+ 4.31		26.5	332.772	295.9	1.54689	+ 7.33
	3.5	6.412	112.22	1.42662	+ 4.31		28.5	138.238	100.7	1.54838	+ 7.35
	5.5	50.394	154.20	1.42512	+ 4.31		30.5	303.704	265.5	1.54985	+ 7.38
	7.5	94.376	196.18	1.42362	+ 4.32	Febr.	1.5	109.170	70.3	1.55131	+ 7.40
	9.5	138.358	238.16	1.42213	+ 4.32		3.5	274.636	235.1	1.55275	+ 7.41
	11.5	182.340	280.15	1.42064	+ 4.33		5.5	80.102	39.8	1.55417	+ 7.42
	13.5	226.322	322.13	1.41916	+ 4.33		7.5	245.568	204.6	1.55558	+ 7.43
	15.5	270.304	4.11	1.41770	+ 4.34		9.5	51.034	9.4	1.55696	+ 7.43
	17.5	314.287	46.09	1.41625	+ 4.34		11.5	216.500	174.2	1.55832	+ 7.44
	19.5	358.269	88.07	1.41481	+ 4.35		13.5	21.966	339.0	1.55965	+ 7.44
	21.5	42.251	130.06	1.41338	+ 4.35		15.5	187.432	143.8	1.56096	+ 7.45
	23.5	86.233	172.04	1.41197	+ 4.36		17.5	352.898	308.6	1.56223	+ 7.45
	25.5	130.215	214.02	1.41058	+ 4.37		19.5	158.364	113.4	1.56347	+ 7.45
	27.5	174.197	256.01	1.40920	+ 4.39		21.5	323.830	278.2	1.56467	+ 7.44
	29.5	218.179	297.99	1.40784	+ 4.41		23.5	129.296	83.0	1.56584	+ 7.44
	31.5	262.161	339.97	1.40651	+ 4.43		25.5	294.762	247.8	1.56697	+ 7.43
Aug.	2.5	306.144	21.95	1.40519	+ 4.44		27.5	100.228	52.6	1.56805	+ 7.42
	4.5	350.126	63.93	1.40390	+ 4.46	März	1.5	265.694	217.4	1.56910	+ 7.41
	6.5	34.108	105.92	1.40263	+ 4.47		3.5	71.160	22.2	1.57010	+ 7.40
	8.5	78.090	147.90	1.40139	+ 4.49		5.5	236.626	187.0	1.57106	+ 7.38
	10.5	122.072	189.88	1.40017	+ 4.51		7.5	42.092	351.8	1.57196	+ 7.36
	12.5	166.054	231.87	1.39897	+ 4.53		9.5	207.558	156.5	1.57282	+ 7.34
	14.5	210.036	273.85	1.39780	+ 4.55		11.5	13.024	321.3	1.57363	+ 7.32
	16.5	254.018	315.83	1.39666	+ 4.57		13.5	178.490	126.1	1.57438	+ 7.29
							15.5	343.956	290.9	1.57508	+ 7.27
							17.5	149.422	95.7	1.57573	+ 7.24
							19.5	314.888	260.5	1.57632	+ 7.21

Mittlere Zeit Greenwich	L	M	log $\frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	Mittlere Zeit Greenwich	L	M	log $\frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$
<b>ENCELADUS</b>					<b>ENCELADUS</b>				
1923					1923				
März 19.5	314.888	260.5	1.57632	+ 7.21	Juni 5.5	288.051	207.3	1.55541	+ 5.70
21.5	120.354	65.3	1.57685	+ 7.18	7.5	93.516	12.1	1.55402	+ 5.67
23.5	285.819	230.1	1.57732	+ 7.14	9.5	258.982	176.9	1.55262	+ 5.65
25.5	91.285	34.8	1.57774	+ 7.10	11.5	64.447	341.7	1.55119	+ 5.63
27.5	256.751	199.6	1.57810	+ 7.07	13.5	229.913	146.4	1.54975	+ 5.61
29.5	62.217	4.4	1.57839	+ 7.03	15.5	35.378	311.2	1.54829	+ 5.60
31.5	227.683	169.2	1.57862	+ 6.99	17.5	200.844	116.0	1.54682	+ 5.58
April 2.5	33.149	334.0	1.57880	+ 6.95	19.5	6.309	280.8	1.54534	+ 5.57
4.5	198.615	138.8	1.57891	+ 6.91	21.5	171.775	85.6	1.54385	+ 5.56
6.5	4.081	303.6	1.57896	+ 6.87	23.5	337.240	250.4	1.54236	+ 5.55
8.5	169.546	108.4	1.57895	- 6.83	25.5	142.706	55.2	1.54086	+ 5.54
10.5	335.012	273.2	1.57888	+ 6.79	27.5	308.171	220.0	1.53935	+ 5.54
12.5	140.478	78.0	1.57874	+ 6.74	29.5	113.637	24.7	1.53784	+ 5.53
14.5	305.944	242.8	1.57855	+ 6.70	Juli 1.5	279.102	189.5	1.53633	+ 5.53
16.5	111.410	47.6	1.57830	+ 6.65	3.5	84.567	354.3	1.53483	+ 5.53
18.5	276.876	212.4	1.57798	+ 6.61	5.5	250.033	159.1	1.53333	+ 5.53
20.5	82.342	17.2	1.57760	+ 6.56	7.5	55.498	323.9	1.53183	+ 5.53
22.5	247.807	182.0	1.57716	+ 6.52	9.5	220.963	128.7	1.53034	+ 5.54
24.5	53.273	346.8	1.57667	+ 6.47	11.5	26.428	293.5	1.52885	+ 5.54
26.5	218.739	151.5	1.57612	+ 6.43	13.5	191.893	98.3	1.52737	+ 5.55
28.5	24.204	316.3	1.57551	+ 6.38	15.5	357.358	263.0	1.52591	+ 5.56
30.5	189.670	121.1	1.57485	+ 6.34	17.5	162.824	67.8	1.52446	+ 5.57
Mai 2.5	355.136	285.9	1.57414	+ 6.30	19.5	328.289	232.6	1.52302	+ 5.58
4.5	160.602	90.7	1.57338	+ 6.26	21.5	133.754	37.4	1.52159	+ 5.59
6.5	326.068	255.5	1.57257	+ 6.21	23.5	299.219	202.2	1.52018	+ 5.60
8.5	131.533	60.3	1.57170	+ 6.17	25.5	104.684	7.0	1.51879	+ 5.62
10.5	296.999	225.1	1.57079	+ 6.13	27.5	270.149	171.8	1.51741	+ 5.64
12.5	102.464	29.8	1.56983	+ 6.08	29.5	75.614	336.6	1.51605	+ 5.66
14.5	267.930	194.6	1.56883	+ 6.04	31.5	241.079	141.4	1.51472	+ 5.68
16.5	73.396	359.4	1.56779	+ 6.00	Aug. 2.5	46.544	306.2	1.51340	+ 5.70
18.5	238.861	164.2	1.56670	+ 5.96	4.5	212.009	111.0	1.51211	+ 5.72
20.5	44.327	329.0	1.56558	+ 5.92	6.5	17.474	275.8	1.51084	+ 5.74
22.5	209.792	133.8	1.56442	+ 5.89	8.5	182.939	80.6	1.50960	+ 5.76
24.5	15.258	298.6	1.56322	+ 5.86	10.5	348.404	245.4	1.50838	+ 5.79
26.5	180.723	103.4	1.56199	+ 5.84	12.5	153.869	50.2	1.50718	+ 5.81
28.5	346.189	268.1	1.56073	+ 5.81	14.5	319.334	215.0	1.50601	+ 5.84
30.5	151.654	72.9	1.55944	+ 5.79	16.5	124.799	19.7	1.50487	+ 5.87
Juni 1.5	317.120	237.7	1.55812	+ 5.76					
3.5	122.585	42.5	1.55678	+ 5.73					
5.5	288.051	207.3	1.55541	+ 5.70					

Mittlere Zeit Greenwich	<i>L</i>	<i>M</i>	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$	Mittlere Zeit Greenwich	<i>L</i>	<i>M</i>	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
<b>TETHYS</b>					<b>TETHYS</b>				
1923					1923				
Jan.	0.5	185.427	1.62009	+ 8.53	März	19.5	299.868	1.66902	+ 8.92
	2.5	206.824	1.62155	+ 8.58		21.5	321.264	1.66955	+ 8.88
	4.5	228.219	1.62303	+ 8.63		23.5	342.660	1.67002	+ 8.84
	6.5	249.615	1.62452	+ 8.68		25.5	4.056	1.67044	+ 8.80
	8.5	271.011	1.62602	+ 8.73		27.5	25.452	1.67080	+ 8.76
	10.5	292.407	1.62752	+ 8.78		29.5	46.848	1.67109	+ 8.71
	12.5	313.803	1.62903	+ 8.82		31.5	68.244	1.67133	+ 8.66
	14.5	335.199	1.63054	+ 8.86	April	2.5	89.640	1.67150	+ 8.61
	16.5	356.595	1.63206	+ 8.90		4.5	111.036	1.67161	+ 8.56
	18.5	17.991	1.63358	+ 8.94		6.5	132.432	1.67166	+ 8.51
	20.5	39.386	1.63509	+ 8.97		8.5	153.828	1.67165	+ 8.46
	22.5	60.782	1.63660	+ 9.01		10.5	175.224	1.67158	+ 8.41
	24.5	82.178	1.63810	+ 9.04		12.5	196.620	1.67144	+ 8.36
	26.5	103.574	1.63959	+ 9.07		14.5	218.016	1.67125	+ 8.30
	28.5	124.970	1.64108	+ 9.09		16.5	239.412	1.67100	+ 8.25
	30.5	146.366	1.64255	+ 9.11		18.5	260.808	1.67068	+ 8.19
Febr.	1.5	167.762	1.64401	+ 9.14		20.5	282.204	1.67030	+ 8.13
	3.5	189.158	1.64545	+ 9.16		22.5	303.600	1.66986	+ 8.07
	5.5	210.554	1.64687	+ 9.17		24.5	324.996	1.66937	+ 8.02
	7.5	231.950	1.64828	+ 9.19		26.5	346.391	1.66882	+ 7.96
	9.5	253.346	1.64966	+ 9.20		28.5	7.787	1.66821	+ 7.91
	11.5	274.742	1.65102	+ 9.21		30.5	29.183	1.66755	+ 7.85
	13.5	296.138	1.65235	+ 9.21	Mai	2.5	50.579	1.66684	+ 7.80
	15.5	317.534	1.65366	+ 9.22		4.5	71.975	1.66608	+ 7.74
	17.5	338.930	1.65493	+ 9.22		6.5	93.371	1.66527	+ 7.68
	19.5	0.326	1.65617	+ 9.22		8.5	114.767	1.66440	+ 7.63
	21.5	21.721	1.65737	+ 9.21		10.5	136.163	1.66349	+ 7.58
	23.5	43.117	1.65854	+ 9.21		12.5	157.559	1.66253	+ 7.53
	25.5	64.513	1.65967	+ 9.20		14.5	178.955	1.66153	+ 7.48
	27.5	85.909	1.66075	+ 9.19		16.5	200.351	1.66049	+ 7.43
	19.5	107.305	1.66180	+ 9.17		18.5	221.747	1.65940	+ 7.38
	3.5	128.701	1.66280	+ 9.15		20.5	243.143	1.65828	+ 7.34
	5.5	150.097	1.66376	+ 9.13		22.5	264.539	1.65712	+ 7.30
	7.5	171.493	1.66466	+ 9.11		24.5	285.935	1.65592	+ 7.26
	9.5	192.888	1.66552	+ 9.08		26.5	307.331	1.65469	+ 7.22
	11.5	214.284	1.66633	+ 9.06		28.5	328.727	1.65343	+ 7.18
	13.5	235.680	1.66708	+ 9.03		30.5	350.123	1.65214	+ 7.14
	15.5	257.076	1.66778	+ 9.00	Juni	1.5	11.519	1.65082	+ 7.11
	17.5	278.472	1.66843	+ 8.96		3.5	32.915	1.64948	+ 7.08
	19.5	299.868	1.66902	+ 8.92		5.5	54.311	1.64811	+ 7.05



Mittlere Zeit (Greenwich)	L	M	log $\frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	Mittlere Zeit (Greenwich)	L	M	log $\frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	
<b>TETHYS</b>					<b>DIONE</b>					
1923					1923					
Juni	5.5	54.311	1.64811	+ 7.05	Jan.	0.5	184.816	179.8	1.72756	+10.93
	7.5	75.707	1.64672	+ 7.02		2.5	87.885	82.7	1.72902	+11.00
	9.5	97.103	1.64532	+ 7.00		4.5	350.955	345.6	1.73050	+11.06
	11.5	118.499	1.64389	+ 6.97		6.5	254.024	248.5	1.73199	+11.12
	13.5	139.895	1.64245	+ 6.95		8.5	157.094	151.4	1.73349	+11.18
	15.5	161.291	1.64099	+ 6.93		10.5	60.163	54.3	1.73499	+11.24
	17.5	182.687	1.63952	+ 6.92		12.5	323.233	317.2	1.73650	+11.29
	19.5	204.083	1.63804	+ 6.90		14.5	226.302	220.1	1.73801	+11.35
	21.5	225.479	1.63655	+ 6.89		16.5	129.372	123.0	1.73953	+11.40
	23.5	246.875	1.63506	+ 6.88		18.5	32.441	25.9	1.74105	+11.45
	25.5	268.271	1.63356	+ 6.87		20.5	295.511	288.8	1.74256	+11.49
	27.5	289.667	1.63206	+ 6.86		22.5	198.580	191.7	1.74407	+11.53
	29.5	311.063	1.63054	+ 6.85		24.5	101.649	94.6	1.74557	+11.57
Juli	1.5	332.459	1.62903	+ 6.85		26.5	4.719	357.5	1.74706	+11.61
	3.5	353.855	1.62753	+ 6.85		28.5	267.788	260.4	1.74855	+11.64
	5.5	15.251	1.62603	+ 6.85		30.5	170.857	163.3	1.75002	+11.67
	7.5	36.647	1.62453	+ 6.85	Febr.	1.5	73.927	66.2	1.75148	+11.70
	9.5	58.043	1.62304	+ 6.85		3.5	336.996	329.1	1.75292	+11.72
	11.5	79.439	1.62155	+ 6.86		5.5	240.066	232.0	1.75434	+11.74
	13.5	100.835	1.62007	+ 6.87		7.5	143.135	134.9	1.75575	+11.76
	15.5	122.230	1.61861	+ 6.88		9.5	46.204	37.8	1.75713	+11.78
	17.5	143.626	1.61716	+ 6.89		11.5	309.274	300.7	1.75849	+11.79
	19.5	165.022	1.61572	+ 6.91		13.5	212.343	203.6	1.75982	+11.80
	21.5	186.418	1.61429	+ 6.92		15.5	115.412	106.5	1.76113	+11.81
	23.5	207.814	1.61288	+ 6.94		17.5	18.482	9.4	1.76240	+11.81
	25.5	229.210	1.61149	+ 6.96		19.5	281.551	272.3	1.76364	+11.81
	27.5	250.606	1.61011	+ 6.98		21.5	184.621	175.2	1.76484	+11.80
	29.5	272.002	1.60875	+ 7.00		23.5	87.690	78.1	1.76601	+11.79
	31.5	293.397	1.60742	+ 7.02		25.5	350.760	341.0	1.76714	+11.78
Aug.	2.5	314.793	1.60610	+ 7.05		27.5	253.829	243.9	1.76822	+11.76
	4.5	336.189	1.60481	+ 7.08	März	1.5	156.899	146.8	1.76927	+11.74
	6.5	357.585	1.60354	+ 7.11		3.5	59.968	49.7	1.77027	+11.72
	8.5	18.981	1.60230	+ 7.14		5.5	323.038	312.6	1.77123	+11.70
	10.5	40.377	1.60108	+ 7.17		7.5	226.107	215.5	1.77213	+11.67
	12.5	61.773	1.59988	+ 7.20		9.5	129.177	118.3	1.77299	+11.63
	14.5	83.169	1.59871	+ 7.23		11.5	32.246	21.2	1.77380	+11.60
	16.5	104.565	1.59757	+ 7.27		13.5	295.315	284.1	1.77455	+11.56
						15.5	198.385	187.0	1.77525	+11.52
						17.5	101.454	89.9	1.77590	+11.48
						19.5	4.523	352.8	1.77649	+11.43

Mittlere Zeit Greenwich	<i>L</i>	<i>M</i>	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$	Mittlere Zeit Greenwich	<i>L</i>	<i>M</i>	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin B$
<b>DIONE</b>					<b>DIONE</b>				
1923					1923				
März 19.5	4.523	352.8	1.77649	+11.43	Juni 5.5	184.233	165.9	1.75558	+9.03
21.5	267.593	255.7	1.77702	+11.38	7.5	87.303	68.8	1.75419	+8.99
23.5	170.662	158.6	1.77749	+11.32	9.5	350.372	331.7	1.75279	+8.96
25.5	73.732	61.5	1.77791	+11.27	11.5	253.442	234.6	1.75136	+8.93
27.5	336.801	324.4	1.77827	+11.21	13.5	156.511	137.5	1.74992	+8.90
29.5	239.871	227.3	1.77856	+11.15	15.5	59.581	40.4	1.74846	+8.88
31.5	142.940	130.2	1.77880	+11.09	17.5	322.651	303.3	1.74699	+8.86
April 2.5	46.010	33.1	1.77897	+11.03	19.5	225.720	206.2	1.74551	+8.84
4.5	309.079	296.0	1.77908	+10.96	21.5	128.790	109.1	1.74402	+8.82
6.5	212.149	198.9	1.77913	+10.90	23.5	31.859	12.0	1.74253	+8.81
8.5	115.218	101.8	1.77912	+10.83	25.5	294.929	274.9	1.74103	+8.80
10.5	18.288	4.7	1.77905	+10.76	27.5	197.998	177.8	1.73953	+8.79
12.5	281.357	267.6	1.77891	+10.69	29.5	101.068	80.7	1.73801	+8.78
14.5	184.427	170.5	1.77872	+10.62	Juli 1.5	4.137	343.7	1.73650	+8.77
16.5	87.496	73.4	1.77847	+10.55	3.5	267.207	246.6	1.73500	+8.77
18.5	350.566	336.3	1.77815	+10.48	5.5	170.276	149.5	1.73350	+8.77
20.5	253.635	239.2	1.77777	+10.40	7.5	73.346	52.4	1.73200	+8.77
22.5	156.705	142.1	1.77733	+10.33	9.5	336.415	315.3	1.73051	+8.77
24.5	59.774	45.0	1.77684	+10.26	11.5	239.485	218.2	1.72902	+8.78
26.5	322.844	307.9	1.77629	+10.19	13.5	142.554	121.1	1.72754	+8.78
28.5	225.913	210.8	1.77568	+10.12	15.5	45.624	24.0	1.72608	+8.79
30.5	128.982	113.7	1.77502	+10.05	17.5	308.693	286.9	1.72463	+8.81
Mai 2.5	32.052	16.6	1.77431	+9.98	19.5	211.762	189.8	1.72319	+8.84
4.5	295.121	279.5	1.77355	+9.91	21.5	114.832	92.7	1.72176	+8.86
6.5	198.190	182.4	1.77274	+9.84	23.5	17.901	355.6	1.72035	+8.89
8.5	101.260	85.3	1.77187	+9.77	25.5	280.970	258.5	1.71896	+8.91
10.5	4.329	348.2	1.77096	+9.71	27.5	184.040	161.4	1.71758	+8.94
12.5	267.399	251.1	1.77000	+9.64	29.5	87.109	64.3	1.71622	+8.96
14.5	170.468	154.0	1.76900	+9.58	31.5	350.179	327.2	1.71489	+8.99
16.5	73.538	56.9	1.76796	+9.52	Aug. 2.5	253.248	230.0	1.71357	+9.02
18.5	336.607	319.8	1.76687	+9.46	4.5	156.318	132.9	1.71228	+9.06
20.5	239.677	222.7	1.76575	+9.40	6.5	59.387	35.8	1.71101	+9.10
22.5	142.746	125.6	1.76459	+9.35	8.5	322.457	298.7	1.70977	+9.14
24.5	45.816	28.5	1.76339	+9.30	10.5	225.527	201.6	1.70855	+9.18
26.5	308.885	291.4	1.76216	+9.26	12.5	128.596	104.5	1.70735	+9.22
28.5	211.955	194.3	1.76090	+9.22	14.5	31.666	7.4	1.70618	+9.26
30.5	115.024	97.2	1.75961	+9.18	16.5	294.735	270.3	1.70504	+9.30
Juni 1.5	18.094	0.1	1.75829	+9.13					
3.5	281.163	263.0	1.75695	+9.08					
5.5	184.233	165.9	1.75558	+9.03					

Mittlere Zeit Greenwich	L	M	log $\frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$	Mittlere Zeit Greenwich	L	M	log $\frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
<b>RHEA</b>					<b>RHEA</b>				
1923					1923				
Jan. 0.5	171.743	12.1	1.87260	+15.26	März 19.5	267.560	105.7	1.92153	+15.96
2.5	331.122	171.4	1.87406	+15.35	21.5	66.940	265.0	1.92206	+15.89
4.5	130.502	330.7	1.87554	+15.44	23.5	226.320	64.4	1.92253	+15.81
6.5	289.882	130.0	1.87703	+15.53	25.5	25.700	223.7	1.92295	+15.74
8.5	89.262	289.3	1.87853	+15.62	27.5	185.080	23.0	1.92331	+15.66
10.5	248.642	88.7	1.88003	+15.69	29.5	344.460	182.3	1.92360	+15.58
12.5	48.022	248.0	1.88154	+15.75	31.5	143.840	341.7	1.92384	+15.49
14.5	207.402	47.3	1.88305	+15.82	April 2.5	303.220	141.0	1.92401	+15.40
16.5	6.782	206.6	1.88457	+15.88	4.5	102.600	300.3	1.92412	+15.31
18.5	166.162	6.0	1.88609	+15.95	6.5	261.980	99.6	1.92417	+15.22
20.5	325.542	165.3	1.88760	+16.02	8.5	61.360	259.0	1.92416	+15.12
22.5	124.922	324.6	1.88911	+16.09	10.5	220.740	58.3	1.92409	+15.03
24.5	284.302	123.9	1.89061	+16.15	12.5	20.119	217.6	1.92395	+14.93
26.5	83.682	283.3	1.89210	+16.21	14.5	179.499	16.9	1.92376	+14.83
28.5	243.062	82.6	1.89359	+16.26	16.5	338.879	176.3	1.92351	+14.73
30.5	42.442	241.9	1.89506	+16.31	18.5	138.259	335.6	1.92319	+14.63
Febr. 1.5	201.822	41.2	1.89652	+16.35	20.5	297.639	134.9	1.92281	+14.53
3.5	1.202	200.6	1.89796	+16.38	22.5	97.019	294.2	1.92237	+14.43
5.5	160.582	359.9	1.89938	+16.40	24.5	256.399	93.6	1.92188	+14.33
7.5	319.961	159.2	1.90079	+16.43	26.5	55.779	252.9	1.92133	+14.23
9.5	119.341	318.5	1.90217	+16.45	28.5	215.159	52.2	1.92072	+14.13
11.5	278.721	117.9	1.90353	+16.46	30.5	14.539	211.5	1.92006	+14.03
13.5	78.101	277.2	1.90486	+16.47	Mai 2.5	173.919	10.9	1.91935	+13.93
15.5	237.481	76.5	1.90617	+16.48	4.5	333.299	170.2	1.91859	+13.83
17.5	36.861	235.8	1.90744	+16.49	6.5	132.679	329.5	1.91778	+13.74
19.5	196.241	35.2	1.90868	+16.48	8.5	292.059	128.8	1.91691	+13.65
21.5	355.621	194.5	1.90988	+16.47	10.5	91.439	288.2	1.91600	+13.56
23.5	155.001	353.8	1.91105	+16.46	12.5	250.819	87.5	1.91504	+13.47
25.5	314.381	153.1	1.91218	+16.45	14.5	50.199	246.8	1.91404	+13.38
27.5	113.761	312.5	1.91326	+16.43	16.5	209.579	46.1	1.91300	+13.30
März 1.5	273.141	111.8	1.91431	+16.40	18.5	8.959	205.5	1.91191	+13.22
3.5	72.521	271.1	1.91531	+16.37	20.5	168.339	4.8	1.91079	+13.14
5.5	231.901	70.4	1.91627	+16.33	22.5	327.719	164.1	1.90963	+13.06
7.5	31.281	229.8	1.91717	+16.29	24.5	127.099	323.4	1.90843	+12.99
9.5	190.661	29.1	1.91803	+16.24	26.5	286.479	122.8	1.90720	+12.93
11.5	350.040	188.4	1.91884	+16.19	28.5	85.859	282.1	1.90594	+12.87
13.5	149.420	347.7	1.91959	+16.14	30.5	245.239	81.4	1.90465	+12.81
15.5	308.800	147.1	1.92029	+16.08	Juni 1.5	44.619	240.7	1.90333	+12.74
17.5	108.180	306.4	1.92094	+16.02	3.5	203.999	40.1	1.90199	+12.68
19.5	267.560	105.7	1.92153	+15.96	5.5	3.379	199.4	1.90062	+12.61



Mittlere Zeit Greenwich	<i>L</i>	<i>M</i>	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$	Mittlere Zeit Greenwich	<i>L</i>	<i>M</i>	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
<b>RHEA</b>					<b>RHEA</b>				
1923					1923				
Juni 5.5	3.379	199.4	1.90062	+12.61	Juli 11.5	352.218	187.2	1.87406	+12.27
7.5	162.759	358.7	1.89923	+12.56	13.5	151.598	346.6	1.87258	+12.28
9.5	322.139	158.0	1.89783	+12.52	15.5	310.978	145.9	1.87112	+12.30
11.5	121.519	317.4	1.89640	+12.48	17.5	110.357	305.2	1.86967	+12.32
13.5	280.899	116.7	1.89496	+12.44	19.5	269.737	104.5	1.86823	+12.35
15.5	80.279	276.0	1.89350	+12.41	21.5	69.117	263.9	1.86680	+12.38
17.5	239.659	75.3	1.89203	+12.38	23.5	228.497	63.2	1.86539	+12.41
19.5	39.039	234.7	1.89055	+12.35	25.5	27.877	222.5	1.86400	+12.44
21.5	198.419	34.0	1.88906	+12.32	27.5	187.257	21.8	1.86262	+12.48
23.5	357.799	193.3	1.88757	+12.30	29.5	346.637	181.2	1.86126	+12.52
25.5	157.179	352.6	1.88607	+12.29	31.5	146.017	340.5	1.85993	+12.56
27.5	316.559	152.0	1.88457	+12.27	Aug. 2.5	305.396	139.8	1.85861	+12.61
29.5	115.939	311.3	1.88305	+12.26	4.5	104.776	299.1	1.85732	+12.66
Juli 1.5	275.318	110.6	1.88154	+12.25	6.5	264.156	98.5	1.85605	+12.71
3.5	74.698	269.9	1.88004	+12.25	8.5	63.536	257.8	1.85481	+12.76
5.5	234.078	69.3	1.87854	+12.25	10.5	222.916	57.1	1.85359	+12.81
7.5	33.458	228.6	1.87704	+12.25	12.5	22.296	216.4	1.85239	+12.87
9.5	192.838	27.9	1.87555	+12.26	14.5	181.676	15.8	1.85122	+12.93
11.5	352.218	187.2	1.87406	+12.27	16.5	341.056	175.1	1.85008	+12.99

Bewegung der mittleren Länge  $L$  und der mittleren Anomalie  $M$

Zeit	Minas		Enceladus		Tethys	Dione		Rhea	
	$L$	$M$	$L$	$M$	$L$	$L$	$M$	$L$	$M$
<sup>a</sup> 1	21.995	21.00	262.732	262.4	190.698	131.535	131.5	79.690	79.7
<sup>b</sup> 1	15.916	15.87	10.947	10.9	7.946	5.481	5.5	3.320	3.3
2	31.833	31.75	21.894	21.9	15.892	10.961	11.0	6.641	6.6
3	47.749	47.62	32.842	32.8	23.838	16.442	16.4	9.961	10.0
4	63.666	63.50	43.789	43.7	31.783	21.923	21.9	13.282	13.3
5	79.582	79.37	54.736	54.7	39.729	27.403	27.4	16.602	16.6
6	95.499	95.25	65.683	65.6	47.675	32.884	32.9	19.923	19.9
7	111.415	111.12	76.630	76.5	55.621	38.364	38.4	23.244	23.2
8	127.332	127.00	87.577	87.5	63.566	43.845	43.8	26.564	26.6
9	143.248	142.87	98.525	98.4	71.512	49.326	49.3	29.884	29.9
10	159.165	158.75	109.472	109.3	79.458	54.806	54.8	33.205	33.2
11	175.081	174.62	120.419	120.3	87.403	60.287	60.3	36.525	36.5
12	190.997	190.50	131.366	131.2	95.349	65.767	65.7	39.845	39.8
13	206.914	206.37	142.313	142.1	103.295	71.248	71.2	43.166	43.2
14	222.830	222.25	153.260	153.1	111.241	76.729	76.7	46.486	46.5
15	238.747	238.12	164.208	164.0	119.186	82.209	82.2	49.806	49.8
16	254.663	254.00	175.155	174.9	127.132	87.690	87.7	53.127	53.1
17	270.580	269.87	186.102	185.9	135.078	93.171	93.1	56.447	56.5
18	286.496	285.75	197.049	196.8	143.024	98.651	98.6	59.768	59.8
19	302.413	301.62	207.997	207.7	150.970	104.132	104.1	63.088	63.1
20	318.329	317.50	218.944	218.7	158.916	109.613	109.6	66.409	66.4
21	334.246	333.37	229.891	229.6	166.861	115.093	115.1	69.729	69.7
22	350.162	349.25	240.838	240.5	174.806	120.574	120.5	73.050	73.1
23	6.079	5.12	251.785	251.5	182.752	126.054	126.0	76.370	76.4
<sup>m</sup> 1	0.265	0.26	0.182	0.2	0.132	0.091	0.1	0.055	0.0
2	0.531	0.53	0.365	0.4	0.265	0.183	0.2	0.111	0.1
3	0.796	0.79	0.547	0.5	0.397	0.274	0.3	0.166	0.1
4	1.061	1.06	0.730	0.7	0.530	0.365	0.4	0.221	0.2
5	1.326	1.32	0.912	0.9	0.662	0.457	0.5	0.277	0.3
6	1.592	1.58	1.095	1.1	0.795	0.548	0.5	0.332	0.3
7	1.857	1.85	1.278	1.3	0.927	0.640	0.6	0.387	0.3
8	2.122	2.11	1.460	1.4	1.060	0.731	0.7	0.442	0.4
9	2.388	2.38	1.642	1.6	1.192	0.822	0.8	0.497	0.4
10	2.653	2.64	1.825	1.8	1.324	0.914	0.9	0.553	0.5
20	5.305	5.29	3.649	3.6	2.649	1.827	1.8	1.107	1.1
30	7.958	7.93	5.474	5.4	3.973	2.740	2.7	1.660	1.6
40	10.611	10.58	7.298	7.3	5.297	3.654	3.7	2.214	2.2
50	13.263	13.22	9.123	9.1	6.622	4.567	4.6	2.767	2.7
<sup>a</sup> 10	0.044	0.04	0.030	0.0	0.022	0.015	0.0	0.009	0.0
20	0.088	0.09	0.061	0.1	0.044	0.030	0.0	0.018	0.0
30	0.133	0.13	0.091	0.1	0.066	0.046	0.0	0.028	0.0
40	0.177	0.17	0.122	0.1	0.088	0.061	0.1	0.037	0.0
50	0.221	0.22	0.152	0.2	0.110	0.076	0.1	0.046	0.0

M	Minas		Enceladus		Dione		Rhea		M
	+ (v-M)	log $\frac{r}{a}$	+ (v-M)	log $\frac{r}{a}$	+ (v-M)	log $\frac{r}{a}$	+ (v-M)	log $\frac{r}{a}$	
0	0.000	9.99167	0.000	9.99800	0.000	9.99913	0.000	9.99961	360
2	0.078	9.99167	0.018	9.99800	0.008	9.99913	0.004	9.99961	358
4	0.156	9.99169	0.037	9.99800	0.016	9.99913	0.007	9.99961	356
6	0.233	9.99172	0.055	9.99801	0.024	9.99913	0.011	9.99961	354
8	0.310	9.99175	0.074	9.99802	0.032	9.99914	0.014	9.99961	352
10	0.387	9.99180	0.092	9.99803	0.040	9.99914	0.018	9.99961	350
12	0.463	9.99186	0.110	9.99804	0.048	9.99915	0.021	9.99962	348
14	0.539	9.99193	0.128	9.99806	0.056	9.99916	0.025	9.99962	346
16	0.614	9.99201	0.146	9.99808	0.063	9.99916	0.028	9.99962	344
18	0.688	9.99210	0.164	9.99810	0.071	9.99917	0.032	9.99963	342
20	0.762	9.99220	0.181	9.99812	0.079	9.99918	0.035	9.99963	340
22	0.834	9.99230	0.199	9.99814	0.086	9.99919	0.039	9.99964	338
24	0.905	9.99242	0.216	9.99817	0.093	9.99921	0.042	9.99964	336
26	0.975	9.99255	0.232	9.99820	0.101	9.99922	0.045	9.99965	334
28	1.044	9.99269	0.249	9.99823	0.108	9.99923	0.048	9.99966	332
30	1.111	9.99284	0.265	9.99827	0.115	9.99925	0.052	9.99966	330
32	1.177	9.99299	0.281	9.99830	0.122	9.99926	0.055	9.99967	328
34	1.242	9.99316	0.296	9.99834	0.128	9.99928	0.058	9.99968	326
36	1.305	9.99333	0.311	9.99838	0.135	9.99930	0.061	9.99968	324
38	1.366	9.99351	0.326	9.99842	0.141	9.99931	0.064	9.99969	322
40	1.425	9.99370	0.340	9.99847	0.148	9.99933	0.066	9.99970	320
42	1.483	9.99390	0.354	9.99852	0.154	9.99935	0.069	9.99971	318
44	1.538	9.99410	0.368	9.99856	0.159	9.99937	0.072	9.99972	316
46	1.592	9.99431	0.381	9.99861	0.165	9.99940	0.074	9.99973	314
48	1.644	9.99453	0.393	9.99866	0.171	9.99942	0.077	9.99974	312
50	1.693	9.99476	0.405	9.99872	0.176	9.99944	0.079	9.99975	310
52	1.741	9.99499	0.417	9.99877	0.181	9.99947	0.081	9.99976	308
54	1.786	9.99523	0.428	9.99883	0.186	9.99949	0.083	9.99977	306
56	1.829	9.99547	0.438	9.99889	0.190	9.99951	0.085	9.99978	304
58	1.870	9.99572	0.448	9.99895	0.195	9.99954	0.087	9.99979	302
60	1.908	9.99598	0.458	9.99901	0.199	9.99957	0.089	9.99980	300
62	1.944	9.99623	0.467	9.99907	0.203	9.99959	0.091	9.99982	298
64	1.977	9.99650	0.475	9.99913	0.206	9.99962	0.093	9.99983	296
66	2.008	9.99676	0.483	9.99919	0.210	9.99965	0.094	9.99984	294
68	2.036	9.99704	0.490	9.99926	0.213	9.99967	0.096	9.99985	292
70	2.062	9.99731	0.496	9.99932	0.216	9.99970	0.097	9.99987	290
72	2.086	9.99759	0.502	9.99939	0.218	9.99973	0.098	9.99988	288
74	2.106	9.99787	0.508	9.99946	0.220	9.99976	0.099	9.99989	286
76	2.124	9.99815	0.512	9.99952	0.222	9.99979	0.100	9.99991	284
78	2.140	9.99843	0.516	9.99959	0.224	9.99982	0.101	9.99992	282
80	2.153	9.99872	0.520	9.99966	0.226	9.99985	0.102	9.99993	280
82	2.163	9.99900	0.523	9.99973	0.227	9.99988	0.102	9.99995	278
84	2.170	9.99929	0.525	9.99980	0.228	9.99991	0.103	9.99996	276
86	2.175	9.99958	0.526	9.99987	0.229	9.99994	0.103	9.99997	274
88	2.177	9.99987	0.527	9.99994	0.229	9.99997	0.103	9.99999	272
90	2.177	0.00016	0.527	0.00001	0.229	0.00000	0.103	0.00000	270



<i>M</i>	Mimas		Enceladus		Dione		Rhea		<i>M</i>
	+ ( <i>v-M</i> )	$\log \frac{r}{a}$	+ ( <i>v-M</i> )	$\log \frac{r}{a}$	+ ( <i>v-M</i> )	$\log \frac{r}{a}$	+ ( <i>v-M</i> )	$\log \frac{r}{a}$	
90°	2.177	0.00016	0.527	0.00001	0.229	0.00000	0.103	0.00000	270°
92	2.174	0.00044	0.527	0.00008	0.229	0.00003	0.103	0.00001	268
94	2.168	0.00073	0.526	0.00015	0.229	0.00006	0.103	0.00003	266
96	2.159	0.00101	0.524	0.00022	0.228	0.00009	0.103	0.00004	264
98	2.148	0.00130	0.522	0.00029	0.227	0.00012	0.102	0.00005	262
100	2.135	0.00158	0.519	0.00035	0.226	0.00015	0.102	0.00007	260
102	2.119	0.00186	0.515	0.00042	0.224	0.00018	0.101	0.00008	258
104	2.100	0.00214	0.511	0.00049	0.222	0.00021	0.100	0.00009	256
106	2.079	0.00241	0.506	0.00056	0.220	0.00024	0.099	0.00011	254
108	2.055	0.00268	0.500	0.00062	0.218	0.00027	0.098	0.00012	252
110	2.029	0.00295	0.494	0.00069	0.215	0.00030	0.097	0.00013	250
112	2.000	0.00321	0.488	0.00075	0.212	0.00033	0.096	0.00015	248
114	1.969	0.00347	0.480	0.00082	0.209	0.00035	0.094	0.00016	246
116	1.936	0.00373	0.473	0.00088	0.206	0.00038	0.093	0.00017	244
118	1.901	0.00398	0.464	0.00094	0.202	0.00041	0.091	0.00018	242
120	1.863	0.00422	0.455	0.00100	0.198	0.00044	0.089	0.00019	240
122	1.823	0.00446	0.446	0.00106	0.194	0.00046	0.087	0.00021	238
124	1.781	0.00469	0.436	0.00112	0.190	0.00049	0.085	0.00022	236
126	1.737	0.00492	0.425	0.00118	0.185	0.00051	0.083	0.00023	234
128	1.691	0.00514	0.414	0.00123	0.180	0.00053	0.081	0.00024	232
130	1.643	0.00536	0.402	0.00129	0.175	0.00056	0.079	0.00025	230
132	1.593	0.00557	0.390	0.00134	0.170	0.00058	0.077	0.00026	228
134	1.541	0.00577	0.378	0.00139	0.164	0.00060	0.074	0.00027	226
136	1.487	0.00597	0.365	0.00144	0.159	0.00062	0.072	0.00028	224
138	1.431	0.00616	0.351	0.00148	0.153	0.00065	0.069	0.00029	222
140	1.374	0.00634	0.337	0.00153	0.147	0.00067	0.066	0.00030	220
142	1.316	0.00651	0.323	0.00157	0.141	0.00068	0.064	0.00031	218
144	1.256	0.00668	0.308	0.00162	0.134	0.00070	0.061	0.00032	216
146	1.194	0.00683	0.293	0.00166	0.128	0.00072	0.058	0.00032	214
148	1.131	0.00698	0.278	0.00169	0.121	0.00074	0.055	0.00033	212
150	1.067	0.00713	0.262	0.00173	0.114	0.00075	0.052	0.00034	210
152	1.001	0.00726	0.246	0.00176	0.107	0.00077	0.048	0.00034	208
154	0.934	0.00738	0.230	0.00179	0.100	0.00078	0.045	0.00035	206
156	0.867	0.00750	0.213	0.00182	0.093	0.00079	0.042	0.00036	204
158	0.798	0.00760	0.196	0.00185	0.086	0.00080	0.039	0.00036	202
160	0.728	0.00770	0.179	0.00187	0.078	0.00081	0.035	0.00037	200
162	0.658	0.00779	0.162	0.00190	0.071	0.00082	0.032	0.00037	198
164	0.587	0.00787	0.144	0.00192	0.063	0.00083	0.028	0.00037	196
166	0.515	0.00794	0.127	0.00193	0.055	0.00084	0.025	0.00038	194
168	0.442	0.00800	0.109	0.00195	0.048	0.00085	0.021	0.00038	192
170	0.369	0.00805	0.091	0.00196	0.040	0.00085	0.018	0.00038	190
172	0.296	0.00810	0.073	0.00197	0.032	0.00086	0.014	0.00039	188
174	0.222	0.00813	0.055	0.00198	0.024	0.00086	0.011	0.00039	186
176	0.148	0.00815	0.037	0.00199	0.016	0.00086	0.007	0.00039	184
178	0.074	0.00817	0.018	0.00199	0.008	0.00087	0.004	0.00039	182
180	0.000	0.00817	0.000	0.00199	0.000	0.00087	0.000	0.00039	180

Mittlere Zeit Greenwich	♄					γ	N	J	ω
	Mimas	Encel.	Tethys	Dione	Rhea	Rhea	Saturnsring		
1922 Dez. 27.5	203.3	89.8	58.2	184.0	49.9	17.83	127.337	6.827	42.220
1923 Jan. 12.5	187.3	83.1	55.0	182.6	49.4	17.83	127.339	6.827	42.218
28.5	171.3	76.4	51.9	181.2	49.0	17.83	127.341	6.827	42.217
Febr. 13.5	155.3	69.7	48.7	179.8	48.5	17.83	127.342	6.826	42.216
März 1.5	139.3	63.0	45.5	178.4	48.0	17.83	127.344	6.826	42.214
17.5	123.3	56.3	42.3	177.0	47.5	17.83	127.346	6.826	42.213
April 2.5	107.3	49.6	39.1	175.7	47.0	17.82	127.348	6.826	42.212
18.5	91.3	42.9	36.0	174.4	46.5	17.82	127.350	6.826	42.211
Mai 4.5	75.3	36.2	32.8	173.0	46.0	17.82	127.351	6.826	42.210
20.5	59.3	29.5	29.6	171.6	45.5	17.82	127.353	6.825	42.208
Juni 5.5	43.3	22.8	26.4	170.3	45.0	17.82	127.355	6.825	42.207
21.5	27.3	16.1	23.3	169.0	44.5	17.82	127.357	6.825	42.206
Juli 7.5	11.3	9.5	20.1	167.6	44.0	17.82	127.359	6.825	42.204
23.5	355.3	2.8	16.9	166.2	43.5	17.82	127.360	6.825	42.203
Aug. 8.5	339.2	356.1	13.7	164.8	43.0	17.82	127.362	6.824	42.202
24.5	323.2	349.4	10.5	163.4	42.5	17.82	127.364	6.824	42.201
Sept. 9.5	307.2	342.7	7.3	162.1	42.0	17.82	127.366	6.824	42.199
25.5	291.2	336.0	4.2	160.8	41.5	17.82	127.368	6.824	42.198
Okt. 11.5	275.2	329.3	1.0	159.5	41.0	17.81	127.369	6.824	42.197
27.5	259.2	322.6	357.8	158.2	40.5	17.81	127.371	6.823	42.196
Nov. 12.5	243.2	316.0	354.7	156.8	40.0	17.81	127.373	6.823	42.194
28.5	227.2	309.3	351.5	155.4	39.5	17.81	127.375	6.823	42.193
Dez. 14.5	211.2	302.6	348.3	154.0	39.0	17.81	127.377	6.823	42.192
30.5	195.2	295.9	345.1	152.6	38.5	17.81	127.378	6.823	42.191
46.5	179.2	289.2	341.9	151.3	38.0	17.81	127.380	6.822	42.190

$\log \frac{1}{1+\zeta}$ , in Einheiten der 5. Dezimale

u - U		Mimas	Encel.	Tethys	Dione	Rhea	u - U	
0	360	-6+	-7+	-9+	-11+	-16+	180	180
10	350	-6+	-7+	-9+	-11+	-16+	170	190
20	340	-5+	-7+	-8+	-11+	-15+	160	200
30	330	-5+	-6+	-8+	-10+	-14+	150	210
40	320	-4+	-6+	-7+	-9+	-12+	140	220
50	310	-3+	-5+	-6+	-8+	-10+	130	230
60	300	-3+	-4+	-4+	-6+	-8+	120	240
70	290	-2+	-3+	-3+	-4+	-6+	110	250
80	280	-1+	-1+	-2+	-2+	-3+	100	260
90	270	0	0	0	0	0	90	270

Mittlere Zeit (Greenwich)	TITAN			HYPERION			JAPETUS		
	U	B	P	U	B	P	U	B	P
1923									
Jan. 0.5	72.807	+11.548	-1.921	67.814	+11.210	-2.395	149.391	+12.932	+12.431
2.5	72.900	11.579	1.911	67.906	11.242	2.386	149.489	12.941	12.444
4.5	72.985	11.608	1.902	67.992	11.271	2.377	149.580	12.948	12.457
6.5	73.067	11.634	1.893	68.072	11.297	2.369	149.664	12.954	12.469
8.5	73.142	11.657	1.885	68.146	11.321	2.361	149.742	12.958	12.480
10.5	73.210	+11.677	-1.878	68.214	+11.342	-2.354	149.814	+12.961	+12.490
12.5	73.272	11.694	1.872	68.276	11.360	2.348	149.879	12.962	12.499
14.5	73.327	11.708	1.867	68.332	11.375	2.343	149.937	12.962	12.507
16.5	73.376	11.719	1.862	68.382	11.387	2.338	149.989	12.960	12.514
18.5	73.418	11.727	1.858	68.425	11.396	2.334	150.034	12.957	12.520
20.5	73.454	+11.732	-1.854	68.461	+11.402	-2.330	150.071	+12.952	+12.525
22.5	73.484	11.735	1.851	68.490	11.405	2.327	150.101	12.947	12.529
24.5	73.507	11.735	1.848	68.512	11.404	2.324	150.124	12.941	12.532
26.5	73.524	11.732	1.846	68.527	11.400	2.322	150.140	12.934	12.533
28.5	73.534	11.726	1.844	68.536	11.393	2.321	150.148	12.926	12.534
Febr. 30.5	73.536	+11.717	-1.843	68.538	+11.384	-2.321	150.149	+12.916	+12.534
1.5	73.532	11.706	1.844	68.533	11.372	2.321	150.142	12.905	12.533
3.5	73.520	11.692	1.846	68.522	11.358	2.322	150.127	12.893	12.530
5.5	73.502	11.674	1.848	68.504	11.341	2.324	150.105	12.880	12.527
7.5	73.479	11.653	1.851	68.480	11.322	2.327	150.077	12.866	12.523
9.5	73.449	+11.630	-1.854	68.450	+11.300	-2.330	150.043	+12.852	+12.518
11.5	73.412	11.604	1.858	68.414	11.275	2.334	150.002	12.837	12.512
13.5	73.370	11.576	1.862	68.372	11.247	2.339	149.953	12.820	12.505
15.5	73.321	11.545	1.867	68.324	11.216	2.344	149.897	12.802	12.498
17.5	73.266	11.512	1.873	68.269	11.183	2.349	149.835	12.784	12.490
19.5	73.204	+11.476	-1.879	68.208	+11.147	-2.355	149.766	+12.765	+12.481
21.5	73.136	11.438	1.886	68.141	11.108	2.362	149.691	12.745	12.471
23.5	73.061	11.398	1.894	68.068	11.067	2.369	149.611	12.724	12.460
25.5	72.979	11.355	1.903	67.989	11.023	2.377	149.524	12.701	12.448
27.5	72.892	11.310	1.912	67.905	10.977	2.386	149.431	12.678	12.435
März 1.5	72.800	+11.264	-1.922	67.816	+10.929	-2.395	149.333	+12.654	+12.421
3.5	72.704	11.215	1.932	67.722	10.879	2.405	149.228	12.630	12.406
5.5	72.604	11.165	1.943	67.623	10.828	2.415	149.118	12.605	12.391
7.5	72.500	11.113	1.954	67.520	10.775	2.425	149.003	12.580	12.375
9.5	72.393	11.058	1.965	67.412	10.720	2.436	148.884	12.554	12.358
11.5	72.282	+11.002	-1.977	67.300	+10.664	-2.447	148.761	+12.527	+12.341
13.5	72.167	10.945	1.989	67.184	10.606	2.459	148.634	12.499	12.323
15.5	72.049	10.886	2.002	67.064	10.547	2.471	148.503	12.471	12.304
17.5	71.927	10.826	2.015	66.941	10.486	2.483	148.367	12.442	12.285



Mittlere Zeit Greenwich	TITAN			HYPERION			JAPETUS		
	U	B	P	U	B	P	U	B	P
1923j									
März 17.5	71.927	+10.826	-2.015	66.941	+10.486	-2.483	148.367	+12.442	+12.285
19.5	71.802	10.765	2.029	66.814	10.424	2.496	148.228	12.414	12.265
21.5	71.674	10.704	2.043	66.684	10.361	2.509	148.086	12.387	12.245
23.5	71.542	10.641	2.057	66.552	10.297	2.522	147.941	12.359	12.225
25.5	71.407	10.578	2.071	66.417	10.233	2.536	147.794	12.331	12.204
27.5	71.270	+10.514	-2.085	66.281	+10.168	-2.550	147.645	+12.302	+12.182
29.5	71.130	10.449	2.100	66.143	10.103	2.564	147.494	12.273	12.160
31.5	70.989	10.384	2.115	66.003	10.037	2.578	147.342	12.243	12.138
April 2.5	70.848	10.318	2.130	65.862	9.971	2.592	147.188	12.214	12.116
4.5	70.706	10.253	2.145	65.721	9.905	2.606	147.033	12.185	12.094
6.5	70.564	+10.188	-2.160	65.579	+ 9.839	-2.620	146.878	+12.157	+12.071
8.5	70.421	10.123	2.175	65.438	9.773	2.634	146.723	12.129	12.049
10.5	70.279	10.058	2.191	65.296	9.707	2.648	146.568	12.102	12.026
12.5	70.137	9.994	2.206	65.154	9.641	2.662	146.414	12.074	12.004
14.5	69.995	9.930	2.221	65.013	9.576	2.676	146.260	12.046	11.981
16.5	69.854	+ 9.867	-2.236	64.873	+ 9.512	-2.690	146.107	+12.019	+11.958
18.5	69.714	9.806	2.250	64.734	9.449	2.704	145.956	11.992	11.936
20.5	69.576	9.746	2.265	64.597	9.388	2.718	145.807	11.966	11.914
22.5	69.440	9.687	2.279	64.462	9.328	2.731	145.660	11.941	11.892
24.5	69.307	9.630	2.293	64.329	9.270	2.744	145.516	11.917	11.871
26.5	69.177	+ 9.574	-2.307	64.198	+ 9.213	-2.757	145.374	+11.894	+11.850
28.5	69.049	9.519	2.321	64.071	9.158	2.770	145.235	11.872	11.829
30.5	68.924	9.466	2.334	63.946	9.104	2.782	145.099	11.851	11.809
Mai 2.5	68.802	9.414	2.347	63.824	9.052	2.794	144.967	11.831	11.790
4.5	68.683	9.364	2.359	63.706	9.001	2.806	144.839	11.812	11.771
6.5	68.568	+ 9.316	-2.371	63.591	+ 8.951	-2.817	144.715	+11.793	+11.753
8.5	68.457	9.270	2.382	63.480	8.904	2.828	144.596	11.775	11.735
10.5	68.350	9.227	2.393	63.373	8.859	2.838	144.480	11.758	11.718
12.5	68.248	9.186	2.404	63.270	8.816	2.848	144.371	11.742	11.701
14.5	68.150	9.147	2.414	63.172	8.775	2.858	144.266	11.727	11.685
16.5	68.058	+ 9.110	-2.423	63.078	+ 8.737	-2.867	144.165	+11.714	+11.669
18.5	67.971	9.076	2.431	62.989	8.701	2.876	144.070	11.702	11.654
20.5	67.888	9.044	2.439	62.906	8.668	2.884	143.980	11.691	11.640
22.5	67.808	9.016	2.448	62.828	8.637	2.892	143.896	11.681	11.627
24.5	67.733	8.990	2.456	62.755	8.609	2.899	143.818	11.673	11.615
26.5	67.663	+ 8.967	-2.464	62.688	+ 8.584	-2.906	143.746	+11.666	+11.604
28.5	67.599	8.946	2.471	62.626	8.563	2.912	143.680	11.660	11.594
30.5	67.542	8.928	2.477	62.569	8.546	2.917	143.621	11.656	11.585
Juni 1.5	67.491	8.913	2.482	62.518	8.532	2.922	143.568	11.654	11.576

Mittlere Zeit Greenwich	TITAN			HYPERION			JAPETUS		
	U	B	P	U	B	P	U	B	P
1923									
Juni 1.5	67.491	+ 8.913	- 2.482	62.518	+ 8.532	- 2.922	143.568	+ 11.654	+ 11.576
3.5	67.446	8.900	2.487	62.472	8.521	2.926	143.522	11.654	11.568
5.5	67.407	8.890	2.491	62.432	8.512	2.930	143.482	11.654	11.562
7.5	67.374	8.883	2.495	62.398	8.506	2.933	143.448	11.656	11.557
9.5	67.347	8.878	2.498	62.371	8.502	2.936	143.420	11.660	11.553
11.5	67.326	+ 8.876	- 2.500	62.350	+ 8.501	- 2.938	143.399	+ 11.665	+ 11.551
13.5	67.310	8.878	2.502	62.334	8.504	2.940	143.385	11.670	11.549
15.5	67.300	8.883	2.503	62.325	8.510	2.941	143.378	11.676	11.548
17.5	67.296	8.891	2.503	62.321	8.518	2.942	143.377	11.684	11.548
19.5	67.298	8.902	2.503	62.323	8.529	2.942	143.382	11.693	11.549
21.5	67.307	+ 8.916	- 2.502	62.332	+ 8.543	- 2.942	143.394	+ 11.704	+ 11.551
23.5	67.323	8.933	2.500	62.347	8.560	2.940	143.413	11.716	11.554
25.5	67.345	8.952	2.498	62.367	8.579	2.938	143.438	11.730	11.558
27.5	67.373	8.974	2.495	62.394	8.601	2.935	143.470	11.745	11.563
29.5	67.407	8.998	2.491	62.427	8.625	2.931	143.508	11.761	11.569
Juli 1.5	67.446	+ 9.026	- 2.487	62.466	+ 8.654	- 2.927	143.553	+ 11.778	+ 11.576
3.5	67.490	9.056	2.483	62.511	8.685	2.923	143.605	11.797	11.585
5.5	67.540	9.089	2.478	62.562	8.719	2.919	143.664	11.817	11.595
7.5	67.597	9.124	2.472	62.618	8.755	2.914	143.729	11.838	11.605
9.5	67.660	9.163	2.465	62.680	8.794	2.908	143.801	11.860	11.616
11.5	67.729	+ 9.204	- 2.458	62.748	+ 8.835	- 2.902	143.879	+ 11.884	+ 11.628
13.5	67.803	9.248	2.450	62.821	8.879	2.895	143.963	11.908	11.641
15.5	67.883	9.294	2.442	62.900	8.925	2.887	144.053	11.934	11.655
17.5	67.968	9.342	2.433	62.984	8.974	2.879	144.149	11.961	11.670
19.5	68.058	9.393	2.424	63.074	9.025	2.870	144.250	11.988	11.685
21.5	68.153	+ 9.446	- 2.414	63.169	+ 9.079	- 2.861	144.357	+ 12.017	+ 11.701
23.5	68.254	9.502	2.404	63.270	9.136	2.851	144.471	12.046	11.719
25.5	68.361	9.560	2.393	63.377	9.195	2.840	144.591	12.076	11.738
27.5	68.473	9.621	2.381	63.489	9.256	2.829	144.716	12.107	11.757
29.5	68.590	9.684	2.369	63.606	9.319	2.818	144.846	12.139	11.777
Aug. 31.5	68.712	+ 9.748	- 2.356	63.728	+ 9.385	- 2.806	144.982	+ 12.172	+ 11.798
2.5	68.839	9.814	2.343	63.854	9.453	2.794	145.123	12.206	11.820
4.5	68.971	9.881	2.329	63.985	9.522	2.781	145.269	12.240	11.842
6.5	69.107	9.951	2.315	64.121	9.594	2.768	145.420	12.275	11.865
8.5	69.248	10.022	2.300	64.261	9.667	2.754	145.576	12.310	11.888
10.5	69.393	+ 10.096	- 2.285	64.405	+ 9.742	- 2.740	145.737	+ 12.346	+ 11.912
12.5	69.543	10.171	2.269	64.554	9.818	2.725	145.903	12.382	11.937
14.5	69.697	10.248	2.253	64.707	9.896	2.710	146.074	12.419	11.963
16.5	69.856	10.326	2.236	64.864	9.976	2.695	146.249	12.456	11.989

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS			
	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$
1923												
Jan. 0.5	+ 1.75	+35.0	- 14.26	+ 6.8	- 8.22	- 83.3	+ 4.24	- 3.0	+ 1.47	+ 11.0	- 2.57	+ 10.4
1.5	+ 5.99	+32.0	- 12.79	+ 17.8	- 10.79	- 72.9	+ 32.0	- 8.0	+ 2.28	+ 9.9	- 2.50	+ 11.0
2.5	+ 9.29	+24.0	- 10.51	+ 27.7	- 13.29	- 61.9	+ 24.0	- 12.0	+ 2.94	+ 8.2	- 2.43	+ 11.4
3.5	+ 11.08	+ 12.0	- 7.57	+ 35.9	- 15.72	- 50.5	+ 12.0	- 14.2	+ 3.43	+ 6.0	- 2.33	+ 11.7
4.5	+ 11.05	- 2.2	- 4.14	+ 41.9	- 18.05	- 38.8	- 2.2	- 13.8	+ 3.69	+ 3.4	- 2.22	+ 12.1
5.5	+ 9.17	- 16.0	- 0.45	+ 45.3	- 20.27	- 26.7	- 16.0	- 11.2	+ 3.73	+ 0.4	- 2.09	+ 12.3
6.5	+ 5.77	- 27.2	+ 3.28	+ 45.7	- 22.36	- 14.4	- 27.2	- 7.0	+ 3.52	- 2.6	- 1.96	+ 12.5
7.5	+ 1.42	- 34.2	+ 6.80	+ 43.1	- 24.32	- 1.9	- 34.2	- 1.6	+ 3.03	- 5.8	- 1.81	+ 12.5
8.5	- 3.17	- 35.8	+ 9.83	+ 37.3	- 26.13	+ 10.6	- 35.8	+ 3.9	+ 2.25	- 8.9	- 1.66	+ 12.5
9.5	- 7.30	- 31.9	+ 12.08	+ 28.4	- 27.79	+ 23.1	- 31.9	+ 8.5	+ 1.18	- 11.5	- 1.49	+ 12.4
10.5	- 10.37	- 23.4	+ 13.26	+ 16.9	- 29.28	+ 35.5	- 10.37	+ 11.9	- 0.12	- 13.2	- 1.30	+ 12.3
11.5	- 11.97	- 11.5	+ 13.14	+ 3.7	- 30.58	+ 47.8	- 11.97	+ 13.6	- 1.57	- 13.6	- 1.10	+ 12.0
12.5	- 11.88	+ 2.1	+ 11.57	- 9.9	- 31.68	+ 59.8	+ 2.1	+ 13.4	- 2.93	- 12.5	- 0.91	+ 11.6
13.5	- 10.12	+ 15.5	+ 8.64	- 22.4	- 32.59	+ 71.4	+ 15.5	+ 11.3	- 4.00	- 9.8	- 0.71	+ 11.2
14.5	- 6.91	+ 26.8	+ 4.64	- 32.2	- 33.30	+ 82.6	- 6.91	+ 7.4	- 4.59	- 5.9	- 0.52	+ 10.8
15.5	- 2.69	+ 34.2	+ 0.05	- 38.1	- 33.82	+ 93.4	- 2.69	+ 2.2	- 4.63	- 1.4	- 0.31	+ 10.2
16.5	+ 1.94	+ 36.4	- 4.58	- 39.5	- 34.13	+ 103.6	+ 1.94	- 3.4	- 4.14	+ 3.0	- 0.10	+ 9.6
17.5	+ 6.28	+ 33.0	- 8.72	- 36.5	- 34.23	+ 113.2	+ 6.28	- 8.6	- 3.28	+ 6.7	+ 0.10	+ 9.0
18.5	+ 9.64	+ 24.4	- 12.00	- 29.8	- 34.13	+ 122.2	+ 9.64	- 12.6	- 2.21	+ 9.4	+ 0.32	+ 8.3
19.5	+ 11.43	+ 11.8	- 14.21	- 20.4	- 33.81	+ 130.5	+ 11.43	- 14.7	- 1.06	+ 11.2	+ 0.52	+ 7.5
20.5	+ 11.32	- 2.9	- 15.27	- 9.2	- 33.29	+ 138.0	+ 11.32	- 14.3	+ 0.07	+ 11.9	+ 0.72	+ 6.7
21.5	+ 9.32	- 17.2	- 15.20	+ 2.7	- 32.57	+ 144.7	+ 9.32	- 11.5	+ 1.12	+ 11.7	+ 0.92	+ 5.9
22.5	+ 5.78	- 28.7	- 14.08	+ 14.4	- 31.65	+ 150.6	+ 5.78	- 6.9	+ 2.04	+ 10.9	+ 1.10	+ 5.0
23.5	+ 1.29	- 35.6	- 12.04	+ 25.3	- 30.55	+ 155.6	+ 1.29	- 1.4	+ 2.81	+ 9.3	+ 1.28	+ 4.1
24.5	- 3.43	- 37.0	- 9.23	+ 34.6	- 29.27	+ 159.7	- 3.43	+ 4.2	+ 3.38	+ 7.2	+ 1.47	+ 3.1
25.5	- 7.65	- 32.8	- 5.85	+ 41.8	- 27.80	+ 162.8	- 7.65	+ 9.1	+ 3.75	+ 4.6	+ 1.63	+ 2.2
26.5	- 10.76	- 23.7	- 2.10	+ 46.4	- 26.17	+ 165.0	- 10.76	+ 12.5	+ 3.90	+ 1.6	+ 1.79	+ 1.3
27.5	- 12.34	- 11.2	+ 1.80	+ 48.0	- 24.38	+ 166.3	- 12.34	+ 14.1	+ 3.79	- 1.6	+ 1.93	+ 0.3
28.5	- 12.17	+ 2.9	+ 5.59	+ 46.4	- 22.45	+ 166.6	- 12.17	+ 13.7	+ 3.40	- 4.9	+ 2.08	- 0.7
29.5	- 10.28	+ 16.6	+ 8.99	+ 41.5	- 20.37	+ 165.9	- 10.28	+ 11.4	+ 2.71	- 8.1	+ 2.19	- 1.7
30.5	- 6.92	+ 28.0	+ 11.70	+ 33.4	- 18.18	+ 164.2	- 6.92	+ 7.3	+ 1.70	- 11.0	+ 2.31	- 2.6
31.5	- 2.55	+ 35.3	+ 13.40	+ 22.4	- 15.87	+ 161.6	- 2.55	+ 2.0	+ 0.42	- 13.2	+ 2.41	- 3.6
Febr. 1.5	+ 2.21	+ 37.3	+ 13.82	+ 9.2	- 13.46	+ 158.0	+ 2.21	- 3.8	- 1.05	- 14.2	+ 2.50	- 4.5
2.5	+ 6.66	+ 33.5	+ 12.77	- 5.0	- 10.96	+ 153.5	+ 6.66	- 9.1	- 2.53	- 13.7	+ 2.57	- 5.5
3.5	+ 10.05	+ 24.4	+ 10.24	- 18.7	- 8.39	+ 148.0	+ 10.05	- 13.1	- 3.80	- 11.4	+ 2.63	- 6.3
4.5	+ 11.79	+ 11.3	+ 6.44	- 30.1	- 5.76	+ 141.7	+ 11.79	- 15.1	- 4.61	- 7.6	+ 2.67	- 7.1
5.5	+ 11.57	- 3.8	+ 1.83	- 37.7	- 3.09	+ 134.6	+ 11.57	- 14.5	- 4.86	- 3.2	+ 2.69	- 8.0
6.5	+ 9.42	- 18.3	- 3.03	- 40.9	- 0.40	+ 126.6	+ 9.42	- 11.5	- 4.53	+ 1.4	+ 2.70	- 8.7
7.5	+ 5.70	- 29.8	- 7.56	- 39.5	+ 2.30	+ 117.9	+ 5.70	- 6.7	- 3.77	+ 5.7	+ 2.71	- 9.5
8.5	+ 1.05	- 36.5	- 11.33	- 33.8	+ 5.01	+ 108.4	+ 1.05					



Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS				
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		
1923													
Febr. 8.5	+ 1.05	- 4.84	- 36.5	- 1.0	- 11.33	- 2.72	- 33.8	+ 8.9	+ 5.01	+ 2.70	+ 108.4	- 10.1	
9.5	- 3.79	- 4.28	- 37.5	+ 4.5	- 14.05	- 1.54	- 24.9	+ 10.9	+ 7.71	+ 2.65	+ 98.3	- 10.7	
10.5	- 8.07	- 3.11	- 33.0	+ 9.4	- 15.59	- 0.35	- 14.0	+ 12.0	+ 10.36	+ 2.60	+ 87.6	- 11.3	
11.5	- 11.18	- 1.52	- 23.6	+ 13.0	- 15.94	+ 0.77	- 2.0	+ 12.1	+ 12.96	+ 2.53	+ 76.3	- 11.7	
12.5	- 12.70	+ 0.28	- 10.6	+ 14.4	- 15.17	+ 1.78	+ 10.1	+ 11.5	+ 15.49	+ 2.45	+ 64.6	- 12.2	
13.5	- 12.42	+ 2.04	+ 3.8	+ 13.8	- 13.39	+ 2.64	+ 21.6	+ 10.2	+ 17.94	+ 2.35	+ 52.4	- 12.5	
14.5	- 10.38	+ 3.54	+ 17.6	+ 11.2	- 10.75	+ 3.31	+ 31.8	+ 8.2	+ 20.29	+ 2.23	+ 39.9	- 12.9	
15.5	- 6.84	+ 4.54	+ 28.8	+ 7.1	- 7.44	+ 3.78	+ 40.0	+ 5.7	+ 22.52	+ 2.11	+ 27.0	- 13.0	
16.5	- 2.30	+ 4.89	+ 35.9	+ 1.7	- 3.66	+ 4.01	+ 45.7	+ 2.9	+ 24.63	+ 1.96	+ 14.0	- 13.2	
17.5	+ 2.59	+ 4.51	+ 37.6	- 4.1	+ 0.35	+ 3.99	+ 48.6	- 0.3	+ 26.59	+ 1.80	+ 0.8	- 13.2	
18.5	+ 7.10	+ 3.37	+ 33.5	- 9.5	+ 4.34	+ 3.71	+ 48.3	- 3.9	+ 28.39	+ 1.63	- 12.4	- 13.0	
19.5	+ 10.47	+ 1.65	+ 24.0	- 13.5	+ 8.05	+ 3.12	+ 44.4	- 7.1	+ 30.02	+ 1.46	- 25.4	- 12.9	
20.5	+ 12.12	- 0.37	+ 10.5	- 15.2	+ 11.17	+ 2.18	+ 37.3	- 10.1	+ 31.48	+ 1.26	- 38.3	- 12.8	
21.5	+ 11.75	- 2.34	- 4.7	- 14.4	+ 13.35	+ 0.93	+ 27.2	- 12.7	+ 32.74	+ 1.05	- 51.1	- 12.5	
22.5	+ 9.41	- 3.91	- 19.1	- 11.3	+ 14.28	- 0.55	+ 14.5	- 14.1	+ 33.79	+ 0.85	- 63.6	- 12.1	
23.5	+ 5.50	- 4.80	- 30.4	- 6.4	+ 13.73	- 2.10	+ 0.4	- 14.2	+ 34.64	+ 0.63	- 75.7	- 11.6	
24.5	+ 0.70	- 4.94	- 36.8	- 0.6	+ 11.63	- 3.51	- 13.8	- 12.5	+ 35.27	+ 0.41	- 87.3	- 11.1	
25.5	- 4.24	- 4.32	- 37.4	+ 4.9	+ 8.12	- 4.53	- 26.3	- 9.2	+ 35.68	+ 0.17	- 98.4	- 10.4	
26.5	- 8.56	- 3.05	- 32.5	+ 9.7	+ 3.59	- 5.00	- 35.5	- 4.9	+ 35.85	- 0.07	- 108.8	- 9.8	
27.5	- 11.61	- 1.39	- 22.8	+ 13.0	- 1.41	- 4.85	- 40.4	- 0.1	+ 35.78	- 0.30	- 118.6	- 9.0	
28.5	- 13.00	+ 0.44	- 9.8	+ 14.3	- 6.26	- 4.20	- 40.5	+ 4.2	+ 35.48	- 0.54	- 127.6	- 8.2	
März 1.5	- 12.56	+ 2.21	+ 4.5	+ 13.7	- 10.46	- 3.19	- 36.3	+ 7.7	+ 34.94	- 0.78	- 135.8	- 7.2	
2.5	- 10.35	+ 3.71	+ 18.2	+ 11.0	- 13.65	- 2.00	- 28.6	+ 10.2	+ 34.16	- 1.02	- 143.0	- 6.2	
3.5	- 6.64	+ 4.71	+ 29.2	+ 6.7	- 15.65	- 0.77	- 18.4	+ 11.6	+ 33.14	- 1.24	- 149.2	- 5.3	
4.5	- 1.93	+ 4.99	+ 35.9	+ 1.3	- 16.42	+ 0.42	- 6.8	+ 12.1	+ 31.90	- 1.46	- 154.5	- 4.2	
5.5	+ 3.06	+ 4.52	+ 37.2	- 4.4	- 16.00	+ 1.50	+ 5.3	+ 11.7	+ 30.44	- 1.68	- 158.7	- 3.0	
6.5	+ 7.58	+ 3.31	+ 32.8	- 9.7	- 14.50	+ 2.44	+ 17.0	+ 10.6	+ 28.76	- 1.89	- 161.7	- 1.9	
7.5	+ 10.89	+ 1.51	+ 23.1	- 13.5	- 12.06	+ 3.20	+ 27.6	+ 8.9	+ 26.87	- 2.07	- 163.6	- 0.8	
8.5	+ 12.40	- 0.56	+ 9.6	- 15.1	- 8.86	+ 3.75	+ 36.5	+ 6.6	+ 24.80	- 2.24	- 164.4	+ 0.3	
9.5	+ 11.84	- 2.54	- 5.5	- 14.0	- 5.11	+ 4.07	+ 43.1	+ 3.8	+ 22.56	- 2.41	- 164.1	+ 1.5	
10.5	+ 9.30	- 4.10	- 19.5	- 10.9	- 1.04	+ 4.14	+ 46.9	+ 0.9	+ 20.15	- 2.57	- 162.6	+ 2.6	
11.5	+ 5.20	- 4.95	- 30.4	- 6.0	+ 3.10	+ 3.94	+ 47.8	- 2.4	+ 17.58	- 2.69	- 160.0	+ 3.7	
12.5	+ 0.25	- 4.99	- 36.4	- 0.3	+ 7.04	+ 3.43	+ 45.4	- 5.7	+ 14.89	- 2.79	- 156.3	+ 4.9	
13.5	- 4.74	- 4.29	- 36.7	+ 5.2	+ 10.47	+ 2.57	+ 39.7	- 8.9	+ 12.10	- 2.89	- 151.4	+ 6.0	
14.5	- 9.03	- 2.97	- 31.5	+ 9.8	+ 13.04	+ 1.40	+ 30.8	- 11.6	+ 9.21	- 2.97	- 145.4	+ 7.1	
15.5	- 12.00	- 1.25	- 21.7	+ 12.8	+ 14.44	- 0.05	+ 19.2	- 13.4	+ 6.24	- 3.02	- 138.3	+ 8.0	
16.5	- 13.25	+ 0.63	- 8.9	+ 14.1	+ 14.39	- 1.64	+ 5.8	- 14.0	+ 3.22	- 3.04	- 130.3	+ 8.9	
17.5	- 12.62	+ 2.43	+ 5.2	+ 13.3	+ 12.75	- 3.15	- 8.2	- 13.0	+ 0.18	- 3.04	- 121.4	+ 9.8	
18.5	- 10.19	+ 3.89	+ 18.5	+ 10.5	+ 9.60	- 4.36	- 21.2	- 10.3	- 2.86	- 3.02	- 111.6	+ 10.6	
19.5	- 6.30		+ 29.0		+ 5.24		- 31.5		- 5.89		- 101.0		

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS												
	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$													
1923																					
März 19.5	- 6.30	+29.0	+ 5.24	-31.5	- 5.89	-101.0	+4.82	+ 6.2	-5.03	- 6.4	+11.3	+1.48	+ 5.05	+ 0.21	-5.07	-37.9	- 6.4	- 8.89	-3.00	- 89.7	+11.8
20.5	- 1.48	+35.2	+ 0.21	-37.9	- 8.89	- 89.7	+5.05	+ 1.0	-5.07	- 1.9	+11.8	+ 3.57	- 4.7	- 4.86	-4.53	-39.8	+ 2.6	-11.83	-2.86	- 77.9	+12.4
21.5	+ 3.57	+36.2	- 4.86	-39.8	-11.83	- 77.9	+4.48	- 4.7	-4.53	+ 2.6	+12.4	+ 8.05	- 9.7	- 9.39	-3.59	-37.2	+ 6.3	-14.69	-2.75	- 65.5	+12.9
22.5	+ 8.05	+31.5	- 9.39	-37.2	-14.69	- 65.5	+3.20	- 9.7	-3.59	+ 6.3	+12.9	+ 8.05	- 9.7	- 9.39	-3.59	-37.2	+ 6.3	-14.69	-2.75	- 65.5	+12.9
23.5	+11.25	+21.8	-12.98	-30.9	-17.44	- 52.6	+1.33	-13.3	-2.43	+ 9.0	+13.3	+11.25	-13.3	-12.98	-2.43	-30.9	+ 9.0	-17.44	-2.64	- 52.6	+13.3
24.5	+12.58	+ 8.5	-15.41	-21.9	-20.08	- 39.3	-0.78	-14.6	-2.19	+10.7	+13.3	+12.58	-14.6	-15.41	-2.19	-21.9	+10.7	-20.08	-2.51	- 39.3	+13.5
25.5	+11.80	- 6.1	-16.57	-11.2	-22.59	- 25.8	-2.76	-13.5	-11.2	+10.7	+13.5	+11.80	-13.5	-16.57	-11.2	-11.2	+10.7	-22.59	-2.35	- 25.8	+13.6
26.5	+ 9.04	-19.6	-16.50	+ 0.3	-24.94	- 12.2	-4.25	-10.3	+ 0.3	+11.5	+13.6	+ 9.04	-10.3	-16.50	+1.21	+11.5	+11.5	-24.94	-2.18	- 12.2	+13.7
27.5	+ 4.79	-29.9	-15.29	+11.8	-27.12	+ 1.5	-5.04	- 5.6	+11.8	+11.5	+13.7	+ 4.79	- 5.6	-15.29	+2.21	+10.7	+10.7	-27.12	-2.00	+ 1.5	+13.8
28.5	- 0.25	-35.5	-13.08	+22.5	-29.12	+15.3	-5.01	+ 0.1	+2.21	+10.7	+13.8	- 0.25	+ 0.1	-13.08	+3.05	+ 9.2	+ 9.2	-29.12	-1.80	+15.3	+13.6
29.5	- 5.26	-35.4	-10.03	+31.7	-30.92	+ 28.9	-4.22	+ 5.4	+3.05	+ 9.2	+13.6	- 5.26	+ 5.4	-10.03	+3.68	+31.7	+ 7.2	-30.92	-1.59	+ 28.9	+13.4
30.5	- 9.48	-30.0	- 6.35	+38.9	-32.51	+ 42.3	-2.83	+ 9.7	+3.68	+ 7.2	+13.4	- 9.48	+ 9.7	- 6.35	+4.05	+38.9	+ 4.8	-32.51	-1.37	+ 42.3	+13.1
31.5	-12.31	-20.3	- 2.30	+43.7	-33.88	+ 55.4	-1.06	+12.5	+4.05	+ 4.8	+13.1	-12.31	+12.5	- 2.30	+4.18	+43.7	+ 2.0	-33.88	-1.16	+ 55.4	+12.7
April 1.5	-13.37	- 7.8	+ 1.88	+45.7	-35.04	+ 68.1	+0.84	+13.5	+4.18	+ 2.0	+12.7	-13.37	+13.5	+ 1.88	+4.07	+45.7	- 1.1	-35.04	-0.94	+ 68.1	+12.2
2.5	-12.53	+ 5.7	+ 5.95	+44.6	-35.98	+ 80.3	+2.63	+12.7	+4.07	- 1.1	+12.2	-12.53	+12.7	+ 5.95	+3.64	+44.6	- 4.2	-35.98	-0.69	+ 80.3	+11.6
3.5	- 9.90	+18.4	+ 9.59	+40.4	-36.67	+ 91.9	+4.04	+ 9.9	+3.64	- 4.2	+11.6	- 9.90	+ 9.9	+ 9.59	+2.88	+40.4	- 7.3	-36.67	-0.45	+ 91.9	+11.0
4.5	- 5.86	+28.3	+12.47	+33.1	-37.12	+102.9	+4.90	+ 5.8	+2.88	- 7.3	+11.0	- 5.86	+ 5.8	+12.47	+1.80	+33.1	-10.2	-37.12	-0.22	+102.9	+10.4
5.5	- 0.96	+34.1	+14.27	+22.9	-37.34	+113.3	+5.05	+ 0.6	+1.80	-10.2	+10.4	- 0.96	+ 0.6	+14.27	+0.42	+22.9	-12.2	-37.34	+0.02	+113.3	+ 9.6
6.5	+ 4.09	+34.7	+14.69	+10.7	-37.32	+122.9	+4.40	- 4.8	+0.42	-12.2	+ 9.6	+ 4.09	- 4.8	+14.69	-1.16	+10.7	-13.3	-37.32	+0.27	+122.9	+ 8.8
7.5	+ 8.49	+29.9	+13.53	- 2.6	-37.05	+131.7	+3.02	- 9.5	-1.16	-13.3	+ 8.8	+ 8.49	- 9.5	+13.53	-2.74	- 2.6	-12.9	-37.05	+0.50	+131.7	+ 7.9
8.5	+11.51	+20.4	+10.79	-15.5	-36.55	+139.6	+1.11	-12.8	+10.79	-15.5	+13.6	+11.51	-12.8	+10.79	-4.08	-15.5	-10.9	-36.55	+0.72	+139.6	+ 7.0
9.5	+12.62	+ 7.6	+ 6.71	-26.4	-35.83	+146.6	-1.00	-14.1	-4.08	-10.9	+ 7.0	+12.62	-14.1	+ 6.71	-4.92	-26.4	- 7.6	-35.83	+0.95	+146.6	+ 6.1
10.5	+11.62	- 6.5	+ 1.79	-34.0	-34.88	+152.7	-2.94	-12.9	-4.92	- 7.6	+ 6.1	+11.62	-12.9	+ 1.79	-5.14	-34.0	- 3.5	-34.88	+1.16	+152.7	+ 5.1
11.5	+ 8.68	-19.4	- 3.35	-37.5	-33.72	+157.8	-4.38	- 9.6	-5.14	- 3.5	+ 5.1	+ 8.68	- 9.6	- 3.35	-4.76	-37.5	+ 0.8	-33.72	+1.37	+157.8	+ 4.1
12.5	+ 4.30	-29.0	- 8.11	-36.7	-32.35	+161.9	-5.08	- 5.0	-4.76	+ 0.8	+ 4.1	+ 4.30	- 5.0	- 8.11	-3.92	-36.7	+ 4.7	-32.35	+1.56	+161.9	+ 3.1
13.5	- 0.78	-34.0	-12.03	-32.0	-30.79	+165.0	-4.97	+ 0.3	-3.92	+ 4.7	+ 3.1	- 0.78	+ 0.3	-12.03	-2.79	-32.0	+ 7.6	-30.79	+1.75	+165.0	+ 2.2
14.5	- 5.75	-33.7	-14.82	-24.4	-29.04	+167.2	-4.09	+ 5.4	-2.79	+ 7.6	+ 2.2	- 5.75	+ 5.4	-14.82	-1.53	-24.4	+ 9.5	-29.04	+1.93	+167.2	+ 1.1
15.5	- 9.84	-28.3	-16.35	-14.9	-27.11	+168.3	-2.64	+ 9.4	-1.53	+ 9.5	+ 1.1	- 9.84	+ 9.4	-16.35	-0.27	-14.9	+10.6	-27.11	+2.09	+168.3	+ 0.1
16.5	-12.48	-18.9	-16.62	- 4.3	-25.02	+168.4	-0.85	+12.0	-0.27	+10.6	+ 0.1	-12.48	+12.0	-16.62	+0.90	- 4.3	+10.9	-25.02	+2.23	+168.4	- 0.9
17.5	-13.33	- 6.9	-15.72	+ 6.6	-22.79	+167.5	+1.04	+13.0	+0.90	+10.9	- 0.9	-13.33	+13.0	-15.72	+1.95	+ 6.6	+10.4	-22.79	+2.37	+167.5	- 2.0
18.5	-12.29	+ 6.1	-13.77	+17.0	-20.42	+165.5	+2.78	+12.0	+1.95	+10.4	+ 2.0	-12.29	+12.0	-13.77	+2.81	+17.0	+ 9.2	-20.42	+2.50	+165.5	- 3.0
19.5	- 9.51	+18.1	-10.96	+26.2	-17.92	+162.5	+4.15	+ 9.3	+2.81	+ 9.2	+ 2.0	- 9.51	+ 9.3	-10.96	+3.48	+26.2	+ 7.6	-17.92	+2.60	+162.5	- 3.9
20.5	- 5.36	+27.4	- 7.48	+33.8	-15.32	+158.6	+4.94	+ 5.2	+3.48	+ 7.6	+ 2.0	- 5.36	+ 5.2	- 7.48	+3.93	+33.8	+ 5.5	-15.32	+2.68	+158.6	- 4.8
21.5	- 0.42	+32.6	- 3.55	+39.3	-12.64	+153.8	+4.98	+ 0.3	+3.93	+ 5.5	+ 2.0	- 0.42	+ 0.3	- 3.55	+4.17	+39.3	+ 3.0	-12.64	+2.76	+153.8	- 5.8
22.5	+ 4.56	+32.9	+ 0.62	+42.3	- 9.88	+148.0	+4.26	- 4.8	+4.17	+ 3.0	+ 2.0	+ 4.56	- 4.8	+ 0.62	+4.13	+42.3	+ 0.2	- 9.88	+2.81	+148.0	- 6.6
23.5	+ 8.82	+28.1	+ 4.75	+42.5	- 7.07	+141.4	+2.83	- 9.3	+4.13	+ 0.2	+ 2.0	+ 8.82	- 9.3	+ 4.75	+3.78	+42.5	- 2.8	- 7.07	+2.85	+141.4	- 7.5
24.5	+11.65	+18.8	+ 8.53	+39.7	- 4.22	+133.9	+0.89	-12.3	+3.78	- 2.8	+ 2.0	+11.65	-12.3	+ 8.53	+3.12	+39.7	- 5.7	- 4.22	+2.87	+133.9	- 8.2
25.5	+12.54	+ 6.5	+11.65	+34.0	- 1.35	+125.7	-1.21	-13.3	+3.12	- 5.7	+ 2.0	+12.54	-13.3	+11.65	+2.13	+34.0	- 8.5	- 1.35	+2.88	+125.7	- 8.9
26.5	+11.33	- 6.8	+13.78	+25.5	+ 1.53	+116.8	-3.11	-12.1	+2.13	- 8.5	+ 2.0	+11.33	-12.1	+13.78	+0.84	+25.5	-10.8	+ 1.53	+2.86	+116.8	- 9.6
27.5	+ 8.22	-18.9	+14.62	+14.7	+ 4.39	+107.2			+0.84	-10.8	+ 2.0	+ 8.22		+14.62		+14.7		+ 4.39		+107.2	

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS				
	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$					
1923													
April 27.5	+ 8.22	-18.9	+14.62	+14.7	+ 4.39	+107.2							
28.5	+ 3.77	-27.9	+13.93	+ 2.5	+ 7.22	+ 97.0							
29.5	- 1.30	-32.4	+11.66	- 9.9	+10.01	+ 86.3							
30.5	- 6.16	-31.9	+ 7.99	-21.0	+12.73	+ 75.1							
Mai 1.5	-10.09	-26.6	+ 3.32	-29.4	+15.37	+ 63.5							
2.5	-12.53	-17.5	- 1.77	-34.2	+17.91	+ 51.5							
3.5	-13.18	- 5.9	- 6.65	-35.0	+20.34	+ 39.2							
4.5	-11.96	+ 6.4	-10.80	-32.1	+22.64	+ 26.8							
5.5	- 9.04	+17.7	-13.90	-26.1	+24.79	+ 14.2							
6.5	- 4.83	+26.4	-15.78	-17.8	+26.79	+ 1.6							
7.5	+ 0.08	+31.1	-16.41	- 8.2	+28.63	- 11.0							
8.5	+ 4.96	+31.2	-15.84	+ 1.9	+30.28	- 23.5							
9.5	+ 9.04	+26.4	-14.21	+11.9	+31.74	- 35.8							
10.5	+11.67	+17.4	-11.67	+21.0	+32.99	- 47.7							
11.5	+12.34	+ 5.6	- 8.42	+28.8	+34.04	- 59.3							
12.5	+10.95	- 7.1	- 4.65	+34.7	+34.88	- 70.6							
13.5	+ 7.74	-18.5	- 0.60	+38.5	+35.48	- 81.4							
14.5	+ 3.25	-26.9	+ 3.47	+39.8	+35.85	- 91.6							
15.5	- 1.75	-30.9	+ 7.29	+38.4	+35.99	-101.2							
16.5	- 6.46	-30.2	+10.56	+34.2	+35.90	-110.1							
17.5	-10.20	-25.0	+12.97	+27.3	+35.57	-118.2							
18.5	-12.45	-16.1	+14.20	+18.0	+35.00	-125.5							
19.5	-12.91	- 5.1	+14.00	+ 6.9	+34.21	-131.9							
20.5	-11.54	+ 6.6	+12.26	- 4.8	+33.19	-137.5							
21.5	- 8.54	+17.3	+ 9.06	-15.8	+31.94	-142.1							
22.5	- 4.33	+25.4	+ 4.74	-24.8	+30.49	-145.8							
23.5	+ 0.50	+29.8	- 0.16	-30.7	+28.84	-148.5							
24.5	+ 5.25	+29.6	- 5.04	-33.0	+26.99	-150.1							
25.5	+ 9.15	+24.9	- 9.35	-31.6	+24.95	-150.7							
26.5	+11.56	+16.1	-12.71	-27.0	+22.76	-150.3							
27.5	+12.05	+ 4.8	-14.91	-20.0	+20.42	-148.8							
28.5	+10.53	- 7.3	-15.90	-11.4	+17.94	-146.4							
29.5	+ 7.25	-18.2	-15.71	- 2.0	+15.34	-142.9							
30.5	+ 2.80	-26.0	-14.43	+ 7.4	+12.65	-138.4							
31.5	- 2.09	-29.7	-12.23	+16.4	+ 9.88	-133.0							
Juni 1.5	- 6.65	-28.8	- 9.27	+24.3	+ 7.05	-126.7							
2.5	-10.21	-23.6	- 5.74	+30.7	+ 4.18	-119.6							
3.5	-12.27	-15.1	- 1.88	+35.2	+ 1.28	-111.7							
4.5	-12.58	- 4.4	+ 2.09	+37.3	- 1.61	-103.1							
5.5	-11.11	+ 6.9	+ 5.91	+37.1	- 4.48	- 93.9							



Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS				
	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$					
1923													
Juni 5.5	-11.11 +3.04	+6.9 +10.2	+5.91 +3.37	+37.1 -2.9	-4.48 -2.82	-93.9 +9.9							
6.5	-8.07 +4.18	+17.1 +7.7	+9.28 +2.63	+34.2 -5.6	-7.30 -2.77	-84.0 +10.5							
7.5	-3.89 +4.73	+24.8 +4.1	+11.91 +1.59	+28.6 -8.1	-10.07 -2.70	-73.5 +11.0							
8.5	+0.84 +4.59	+28.9 -0.3	+13.50 +0.28	+20.5 -10.0	-12.77 -2.59	-62.5 +11.3							
9.5	+5.43 +3.72	+28.6 -4.9	+13.78 -1.20	+10.5 -11.0	-15.36 -2.47	-51.2 +11.6							
10.5	+9.15 +2.22	+23.7 -8.7	+12.58 -2.66	-0.5 -11.0	-17.83 -2.35	-39.6 +11.8							
11.5	+11.37 +0.34	+15.0 -11.1	+9.92 -3.87	-11.5 -9.5	-20.18 -2.21	-27.8 +12.0							
12.5	+11.71 -1.61	+3.9 -11.7	+6.05 -4.62	-21.0 -6.9	-22.39 -2.05	-15.8 +12.0							
13.5	+10.10 -3.29	-7.8 -10.4	+1.43 -4.78	-27.9 -3.5	-24.44 -1.87	-3.8 +12.0							
14.5	+6.81 -4.39	-18.2 -7.4	-3.35 -4.38	-31.4 +0.2	-26.31 -1.69	+8.2 +11.9							
15.5	+2.42 -4.76	-25.6 -3.3	-7.73 -3.59	-31.2 +3.3	-28.00 -1.51	+20.1 +11.8							
16.5	-2.34 -4.40	-28.9 +1.1	-11.32 -2.52	-27.9 +6.0	-29.51 -1.32	+31.9 +11.5							
17.5	-6.74 -3.38	-27.8 +5.2	-13.84 -1.34	-21.9 +7.8	-30.83 -1.11	+43.4 +11.2							
18.5	-10.12 -1.90	-22.6 +8.5	-15.18 -0.19	-14.1 +8.8	-31.94 -0.91	+54.6 +10.8							
19.5	-12.02 -0.19	-14.1 +10.5	-15.37 +0.89	-5.3 +9.2	-32.85 -0.69	+65.4 +10.3							
20.5	-12.21 +1.53	-3.6 +11.0	-14.48 +1.83	+3.9 +8.9	-33.54 -0.47	+75.7 +9.8							
21.5	-10.68 +3.03	+7.4 +9.8	-12.65 +2.62	+12.8 +8.1	-34.01 -0.26	+85.5 +9.2							
22.5	-7.65 +4.11	+17.2 +7.4	-10.03 +3.23	+20.9 +6.8	-34.27 -0.04	+94.7 +8.6							
23.5	-3.54 +4.62	+24.6 +3.8	-6.80 +3.63	+27.7 +5.1	-34.31 +0.17	+103.3 +8.0							
24.5	+1.08 +4.43	+28.4 -0.6	-3.17 +3.82	+32.8 +3.0	-34.14 +0.37	+111.3 +7.3							
25.5	+5.51 +3.55	+27.8 -4.9	+0.65 +3.76	+35.8 +0.6	-33.77 +0.58	+118.6 +6.5							
26.5	+9.06 +2.07	+22.9 -8.7	+4.41 +3.44	+36.4 -1.9	-33.19 +0.77	+125.1 +5.8							
27.5	+11.13 +0.23	+14.2 -11.0	+7.85 +2.82	+34.5 -4.6	-32.42 +0.96	+130.9 +5.0							
28.5	+11.36 -1.66	+3.2 -11.5	+10.67 +1.92	+29.9 -7.1	-31.46 +1.14	+135.9 +4.2							
29.5	+9.70 -3.26	-8.3 -10.1	+12.59 +0.74	+22.8 -9.2	-30.32 +1.32	+140.1 +3.4							
30.5	+6.44 -4.30	-18.4 -7.2	+13.33 -0.65	+13.6 -10.6	-29.00 +1.49	+143.5 +2.5							
Juli 1.5	+2.14 -4.63	-25.6 -3.0	+12.68 -2.09	+3.0 -10.9	-27.51 +1.64	+146.0 +1.7							
2.5	-2.49 -4.24	-28.6 +1.3	+10.59 -3.37	-7.9 -10.0	-25.87 +1.78	+147.7 +0.8							
3.5	-6.73 -3.23	-27.3 +5.4	+7.22 -4.25	-17.9 -7.7	-24.09 +1.91	+148.5 -0.1							
4.5	-9.96 -1.78	-21.9 +8.5	+2.97 -4.61	-25.6 -4.6	-22.18 +2.03	+148.4 -0.9							
5.5	-11.74 -0.11	-13.4 +10.5	-1.64 -4.41	-30.2 -1.0	-20.15 +2.13	+147.5 -1.7							
6.5	-11.85 +1.55	-2.9 +10.9	-6.05 -3.75	-31.2 +2.3	-18.02 +2.23	+145.8 -2.5							
7.5	-10.30 +3.00	+8.0 +9.7	-9.80 -2.80	-28.9 +5.1	-15.79 +2.31	+143.3 -3.4							
8.5	-7.30 +4.03	+17.7 +7.2	-12.60 -1.71	-23.8 +7.1	-13.48 +2.38	+139.9 -4.1							
9.5	-3.27 +4.49	+24.9 +3.5	-14.31 -0.59	-16.7 +8.5	-11.10 +2.43	+135.8 -4.8							
10.5	+1.22 +4.29	+28.4 -0.9	-14.90 +0.48	-8.2 +9.1	-8.67 +2.47	+131.0 -5.6							
11.5	+5.51 +3.41	+27.5 -5.2	-14.42 +1.44	+0.9 +9.0	-6.20 +2.49	+125.4 -6.2							
12.5	+8.92 +1.95	+22.3 -8.8	-12.98 +2.25	+9.9 +8.4	-3.71 +2.51	+119.2 -6.9							
13.5	+10.87 +0.16	+13.5 -11.0	-10.73 +2.91	+18.3 +7.3	-1.20 +2.51	+112.3 -7.5							
14.5	+11.03	+2.5	-7.82	+25.6	+1.31	+104.8							

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS			
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
1923												
Juli 14.5	+11.03	-1.67	+ 2.5	-11.5	- 7.82	+3.38	+25.6	+ 5.7	+ 1.31	+2.49	+104.8	- 8.1
15.5	+ 9.36	-3.22	- 9.0	-10.1	- 4.44	+3.64	+31.3	+ 3.7	+ 3.80	+2.46	+ 96.7	- 8.6
16.5	+ 6.14	-4.20	+19.1	- 6.9	- 0.80	+3.68	+35.0	+ 1.5	+ 6.26	+2.41	+ 88.1	- 9.1
17.5	+ 1.94	-4.50	-26.0	- 2.8	+ 2.88	+3.46	+36.5	- 1.1	+ 8.67	+2.36	+ 79.0	- 9.5
18.5	- 2.56	-4.10	-28.8	+ 1.6	+ 6.34	+2.99	+35.4	- 3.8	+11.03	+2.29	+ 69.5	- 9.9
19.5	- 6.66	-3.10	-27.2	+ 5.6	+ 9.33	+2.21	+31.6	- 6.3	+13.32	+2.21	+ 59.6	-10.2
20.5	- 9.76	-1.69	-21.6	+ 8.8	+11.54	+1.15	+25.3	- 8.6	+15.53	+2.10	+ 49.4	-10.5
21.5	-11.45	-0.07	-12.8	+10.6	+12.69	-0.12	+16.7	-10.4	+17.63	+2.00	+ 38.9	-10.7
22.5	-11.52	+1.55	- 2.2	+11.0	+12.57	-1.52	+ 6.3	-11.1	+19.63	+1.88	+ 28.2	-10.8
23.5	- 9.97	+2.94	+ 8.8	+ 9.7	+11.05	-2.83	- 4.8	-10.5	+21.51	+1.75	+ 17.4	-10.9
24.5	- 7.03	+3.94	+18.5	+ 7.1	+ 8.22	-3.84	-15.3	- 8.7	+23.26	+1.60	+ 6.5	-11.0
25.5	- 3.09	+4.37	+25.6	+ 3.2	+ 4.38	-4.37	-24.0	- 5.6	+24.86	+1.45	- 4.5	-10.9
26.5	+ 1.28	+4.17	+28.8	- 1.1	+ 0.01	-4.36	-29.6	- 2.1	+26.31	+1.29	- 15.4	-10.8
27.5	+ 5.45	+3.30	+27.7	- 5.5	- 4.35	-3.88	-31.7	+ 1.3	+27.60	+1.13	- 26.2	-10.6
28.5	+ 8.75	+1.87	+22.2	- 9.2	- 8.23	-3.07	-30.4	+ 4.4	+28.73	+0.95	- 36.8	-10.4
29.5	+10.62	+0.12	+13.0	-11.3	-11.30	-2.06	-26.0	+ 6.7	+29.68	+0.77	- 47.2	-10.1
30.5	+10.74	-1.66	+ 1.7	-11.6	-13.36	-0.98	-19.3	+ 8.4	+30.45	+0.60	- 57.3	- 9.8
31.5	+ 9.08	-3.16	- 9.9	-10.1	-14.34	+0.06	-10.9	+ 9.1	+31.05	+0.40	- 67.1	- 9.3
Aug. 1.5	+ 5.92	-4.10	-20.0	- 6.8	-14.28	+1.04	- 1.8	+ 9.3	+31.45	+0.21	- 76.4	- 8.9
2.5	+ 1.82	-4.38	-26.8	- 2.6	-13.24	+1.88	+ 7.5	+ 8.9	+31.66	+0.01	- 85.3	- 8.4
3.5	- 2.56	-3.99	-29.4	+ 1.9	-11.36	+2.58	+16.4	+ 7.8	+31.67	-0.19	- 93.7	- 7.7
4.5	- 6.55	-3.01	-27.5	+ 6.0	- 8.78	+3.10	+24.2	+ 6.4	+31.48	-0.38	-101.4	- 7.1
5.5	- 9.56	-1.63	-21.5	+ 9.1	- 5.68	+3.44	+30.6	+ 4.5	+31.10	-0.58	-108.5	- 6.5
6.5	-11.19	-0.05	-12.4	+11.0	- 2.24	+3.58	+35.1	+ 2.2	+30.52	-0.77	-115.0	- 5.8
7.5	-11.24	+1.52	- 1.4	+11.1	+ 1.34	+3.48	+37.3	- 0.4	+29.75	-0.95	-120.8	- 5.0
8.5	- 9.72	+2.88	+ 9.7	+ 9.8	+ 4.82	+3.12	+36.9	- 3.1	+28.80	-1.14	-125.8	- 4.2
9.5	- 6.84	+3.85	+19.5	+ 7.1	+ 7.94	+2.47	+33.8	- 5.8	+27.66	-1.31	-130.0	- 3.3
10.5	- 2.99	+4.28	+26.6	+ 3.0	+10.41	+1.55	+28.0	- 8.3	+26.35	-1.47	-133.3	- 2.5
11.5	+ 1.29	+4.07	+29.6	- 1.5	+11.96	+0.37	+19.7	-10.3	+24.88	-1.63	-135.8	- 1.6
12.5	+ 5.36	+3.21	+28.1	- 5.9	+12.33	-0.97	+ 9.4	-11.3	+23.25	-1.78	-137.4	- 0.7
13.5	+ 8.57	+1.82	+22.2	- 9.5	+11.36	-2.28	- 1.9	-11.2	+21.47	-1.92	-138.1	+ 0.1
14.5	+10.39	+0.11	+12.7	-11.7	+ 9.08	-3.37	-13.1	- 9.6	+19.55	-2.05	-138.0	+ 1.0
15.5	+10.50	-1.63	+ 1.0	-11.9	+ 5.71	-4.14	-22.7	- 6.8	+17.50	-2.14	-137.0	+ 1.9
16.5	+ 8.87		-10.9		+ 1.57		-29.5		+15.36		-135.1	

## Östliche Elongationen

## MIMAS

Jan.	h	Febr.	h	März	h	Mai	h	Juni	h	
1	4.5	13	12.9	28	21.1	11	5.4	23	13.8	
2	3.1	14	11.5	29	19.8	12	4.0	24	12.5	
3	1.7	15	10.1	30	18.4	13	2.7	25	11.1	
4	0.3	16	8.7	31	17.0	14	1.3	26	9.7	
4	22.9	17	7.3	April	1	15.6	14	23.9	27	8.3
5	21.6	18	5.9	2	14.2	15	22.5	28	7.0	
6	20.2	19	4.6	3	12.8	16	21.1	29	5.6	
7	18.8	20	3.2	4	11.4	17	19.8	30	4.2	
8	17.4	21	1.8	5	10.0	18	18.4	Juli	1	2.8
9	16.0	22	0.4	6	8.6	19	17.0	2	1.5	
10	14.7	22	23.0	7	7.3	20	15.6	3	0.1	
11	13.3	23	21.6	8	5.9	21	14.2	3	22.7	
12	11.9	24	20.2	9	4.5	22	12.8	4	21.3	
13	10.5	25	18.8	10	3.1	23	11.4	5	20.0	
14	9.1	26	17.5	11	1.7	24	10.0	6	18.6	
15	7.7	27	16.1	12	0.3	25	8.7	7	17.2	
16	6.3	28	14.7	12	22.9	26	7.3	8	15.8	
17	4.9	März	1	13	21.5	27	5.9	9	14.4	
18	3.6	2	11.9	14	20.2	28	4.5	10	13.1	
19	2.2	3	10.5	15	18.8	29	3.2	11	11.7	
20	0.8	4	9.1	16	17.4	30	1.8	12	10.3	
20	23.4	5	7.7	17	16.0	31	0.4	13	8.9	
21	22.1	6	6.4	18	14.6	31	23.0	14	7.6	
22	20.7	7	5.0	19	13.2	Juni	1	15	6.2	
23	19.3	8	3.6	20	11.8	2	20.3	16	4.8	
24	17.9	9	2.2	21	10.4	3	18.9	17	3.4	
25	16.5	10	0.9	22	9.0	4	17.5	18	2.1	
26	15.2	10	23.5	23	7.7	5	16.1	19	0.7	
27	13.8	11	22.1	24	6.3	6	14.7	19	23.3	
28	12.4	12	20.7	25	4.9	7	13.3	20	21.9	
29	11.0	13	19.3	26	3.5	8	11.9	21	20.6	
30	9.6	14	18.0	27	2.2	9	10.5	22	19.2	
31	8.2	15	16.6	28	0.8	10	9.2	23	17.8	
Febr.	1	16	15.2	28	23.4	11	7.8	24	16.4	
2	5.4	17	13.8	29	22.0	12	6.4	25	15.0	
3	4.1	18	12.4	30	20.6	13	5.0	26	13.7	
4	2.7	19	11.0	Mai	1	19.3	14	3.7	27	12.3
5	1.3	20	9.6	2	17.9	15	2.3	28	10.9	
5	23.9	21	8.2	3	16.5	16	0.9	29	9.5	
6	22.6	22	6.9	4	15.1	16	23.5	30	8.2	
7	21.2	23	5.5	5	13.7	17	22.1	31	6.8	
8	19.8	24	4.1	6	12.3	18	20.8	Aug.	1	5.4
9	18.4	25	2.7	7	10.9	19	19.4	2	4.0	
10	17.0	26	1.3	8	9.5	20	18.0	3	2.7	
11	15.7	26	23.9	9	8.2	21	16.6	4	1.3	
12	14.3	27	22.5	10	6.8	22	15.2	4	23.9	



## Östliche Elongationen

MIMAS		ENCELADUS		ENCELADUS		ENCELADUS		ENCELADUS						
Aug.	5	22.5 <sup>h</sup>	Febr.	11	8.2	April	13	23.7	Juni	14	15.4	Aug.	15	7.6
	6	21.2		12	17.1		15	8.6		16	0.3		16	16.5
	7	19.8		14	2.0		16	17.4		17	9.2	TETHYS		
	8	18.4		15	10.9		18	2.3		18	18.1			
	9	17.0		16	19.8		19	11.2		20	2.9			
	10	15.6		18	4.7		20	20.1		21	11.8			
	11	14.3		19	13.5		22	5.0		22	20.7			
	12	12.9		20	22.4		23	13.9		24	5.6			
	13	11.5		22	7.3		24	22.7		25	14.5			
	14	10.1		23	16.2		26	7.6		26	23.4			
	15	8.8		25	1.1		27	16.5		28	8.3			
	16	7.4		26	10.0		29	1.4		29	17.2			
ENCELADUS				27	18.8		30	10.3	Juli	1	2.0		13	15.5
				1	3.7	Mai	1	19.2		2	10.9		15	12.8
				2	12.6		2	12.6		3	4.0		17	10.1
				3	21.5		3	21.5		4	12.9		19	7.4
				5	6.3		5	6.3		5	21.8		21	4.7
				6	15.2		6	15.2		7	6.7		23	2.0
				8	0.1		8	0.1		8	15.6		24	23.3
				9	9.0		9	9.0		10	0.4		26	20.6
				10	17.8		10	17.8		11	9.3		28	17.9
				12	2.7		12	2.7		12	18.2		30	15.2
	13	11.6		13	11.6		14	3.1	Febr.	1	12.5			
	14	20.5		14	20.5		15	12.0		3	9.8			
	16	5.3		16	5.3		16	20.9		5	7.1			
	17	14.2		17	14.2		18	5.7		7	4.4			
	18	23.1		18	23.1		19	14.6		9	1.7			
	20	7.9		20	7.9		20	23.5		10	23.0			
	21	16.8		21	16.8		22	8.4		12	20.3			
	23	1.7		23	1.7		23	17.3		14	17.6			
	24	10.6		24	10.6		25	2.2		16	14.9			
	25	19.4		25	19.4		26	11.0		18	12.2			
	27	4.3		27	4.3		27	19.9		20	9.5			
	28	13.2		28	13.2		29	4.8		22	6.8			
	29	22.1		29	22.1		30	13.7		24	4.1			
	31	6.9		31	6.9		31	22.6		26	1.4			
	1	15.8	April	1	15.8	Juni	2	7.5	Aug.	1	14.6		27	22.7
	3	0.7		3	0.7		3	16.3		2	23.5	März	1	20.0
	4	9.6		4	9.6		5	1.2		4	8.4		3	17.3
	5	18.4		5	18.4		6	10.1		5	17.3		5	14.6
	7	3.3		7	3.3		7	19.0		7	2.2		7	11.9
	8	12.2		8	12.2		9	3.9		8	11.1		9	9.2
	9	21.1		9	21.1		10	12.8		9	20.0		11	6.4
	11	5.9		11	5.9		11	21.6		11	4.9		13	3.7
	12	14.8		12	14.8		13	6.5		12	13.8		15	1.0
										13	22.7		16	22.3

## Östliche Elongationen

TETHYS		TETHYS		DIONE		DIONE		RHEA	
März 18	19.6 <sup>h</sup>	Juni 11	17.9 <sup>h</sup>	Jan. 19	12.9 <sup>h</sup>	Mai 22	15.7 <sup>h</sup>	Febr. 19	2.8 <sup>h</sup>
20	16.9	13	15.2	22	6.6	25	9.4	23	15.2
22	14.2	15	12.6	25	0.3	28	3.1	28	3.5
24	11.5	17	9.9	27	18.0	30	20.8	März 4	15.9
26	8.8	19	7.2	30	11.7	Juni 2	14.4	9	4.2
28	6.1	21	4.5	Febr. 2	5.4	5	8.1	13	16.5
30	3.4	23	1.8	4	23.1	8	1.8	18	4.9
April 1	0.7	24	23.1	7	16.7	10	19.5	22	17.2
2	22.0	26	20.5	10	10.4	13	13.2	27	5.5
4	19.3	28	17.8	13	4.0	16	6.8	31	17.9
6	16.6	30	15.1	15	21.7	19	0.5	April 5	6.2
8	13.9	Juli 2	12.4	18	15.4	21	18.2	9	18.5
10	11.2	4	9.7	21	9.0	24	11.9	14	6.9
12	8.4	6	7.1	24	2.7	27	5.6	18	19.2
14	5.7	8	4.4	26	20.3	29	23.3	23	7.5
16	3.0	10	1.7	März 1	14.0	Juli 2	17.0	27	19.9
18	0.3	11	23.0	4	7.6	5	10.7	Mai 2	8.2
19	21.6	13	20.3	7	1.3	8	4.4	6	20.5
21	18.9	15	17.6	9	18.9	10	22.1	11	8.9
23	16.2	17	15.0	12	12.6	13	15.8	15	21.2
25	13.5	19	12.3	15	6.3	16	9.5	20	9.6
27	10.8	21	9.6	17	23.9	19	3.2	24	21.9
29	8.0	23	6.9	20	17.6	21	21.0	29	10.3
Mai 1	5.3	25	4.2	23	11.3	24	14.7	Juni 2	22.7
3	2.6	27	1.5	26	5.0	27	8.4	7	11.1
4	23.9	28	22.9	28	22.6	30	2.1	11	23.5
6	21.2	30	20.2	31	16.3	Aug. 1	19.8	16	11.9
8	18.5	Aug. 1	17.5	April 3	9.9	4	13.6	21	0.4
10	15.8	3	14.9	6	3.5	7	7.3	25	12.9
12	13.1	5	12.2	8	21.2	10	1.0	30	1.3
14	10.4	7	9.6	11	14.8	12	18.7	Juli 4	13.7
16	7.7	9	6.9	14	8.5	15	12.4	9	2.2
18	5.0	11	4.2	17	2.1			13	14.7
20	2.3	13	1.5	19	19.8			18	3.2
21	23.6	14	22.9	22	13.4			22	15.7
23	20.9	16	20.2	25	7.1	Jan. 4	22.6 <sup>h</sup>	27	4.2
25	18.2			28	0.7	9	11.0	31	16.7
27	15.5			30	18.4	13	23.5	Aug. 5	5.2
29	12.8			Mai 3	12.0	18	11.9	9	17.7
31	10.1			6	5.7	23	0.4	14	6.2
Juni 2	7.4			8	23.4	27	12.8		
4	4.7			11	17.1	Febr. 1	1.2		
6	2.0			14	10.7	5	13.6		
7	23.3			17	4.4	10	2.0		
9	20.6			19	22.0	14	14.4		

Elongationen und Konjunktionen

TITAN			TITAN			HYPERION		
Jan.	4	0.3 <sup>h</sup> Östl. El.	Juni	12	5.5 <sup>h</sup> Östl. El.	April	22	8.8 <sup>h</sup> Ob. Konj.
	7	20.4 Unt. Konj.		16	1.1 Unt. Konj.		27	21.6 Östl. El.
	11	23.3 Westl. El.		20	3.4 Westl. El.	Mai	2	4.5 Unt. Konj.
	16	2.8 Ob. Konj.		24	7.3 Ob. Konj.		7	4.0 Westl. El.
	19	23.5 Östl. El.		28	4.3 Östl. El.		13	15.9 Ob. Konj.
	23	19.6 Unt. Konj.	Juli	2	0.1 Unt. Konj.		19	5.1 Östl. El.
	27	22.2 Westl. El.		6	2.5 Westl. El.		23	12.0 Unt. Konj.
Febr.	1	1.6 Ob. Konj.		10	6.4 Ob. Konj.		28	11.6 Westl. El.
	4	22.2 Östl. El.		14	3.5 Östl. El.	Juni	3	23.8 Ob. Konj.
	8	18.1 Unt. Konj.		17	23.3 Unt. Konj.		9	13.1 Östl. El.
	12	20.8 Westl. El.		22	1.9 Westl. El.		13	20.0 Unt. Konj.
	17	0.0 Ob. Konj.		26	5.9 Ob. Konj.		18	19.9 Westl. El.
	20	20.5 Östl. El.		30	3.0 Östl. El.		25	8.4 Ob. Konj.
	24	16.2 Unt. Konj.	Aug.	2	23.0 Unt. Konj.		30	21.3 Östl. El.
	28	18.8 Westl. El.		7	1.7 Westl. El.	Juli	5	4.4 Unt. Konj.
März	4	22.0 Ob. Konj.		11	5.7 Ob. Konj.		10	5.1 Westl. El.
	8	18.5 Östl. El.		15	2.9 Östl. El.		16	17.7 Ob. Konj.
	12	14.0 Unt. Konj.	HYPERION				22	5.9 Östl. El.
	16	16.5 Westl. El.	Jan.	5	15.4 <sup>h</sup> Ob. Konj.		26	12.9 Unt. Konj.
	20	19.9 Ob. Konj.		11	5.3 Östl. El.	Aug.	7	3.5 Ob. Konj.
	24	16.2 Östl. El.		15	13.0 Unt. Konj.		12	14.8 Östl. El.
	28	11.6 Unt. Konj.		20	13.1 Westl. El.	JAPETUS		
April	1	14.0 Westl. El.		27	1.3 Ob. Konj.	Jan.	17	13.9 <sup>h</sup> Westl. El.
	5	17.3 Ob. Konj.	Febr.	1	14.6 Östl. El.	Febr.	7	8.4 Ob. Konj.
	9	13.7 Östl. El.		5	21.9 Unt. Konj.		27	11.2 Östl. El.
	13	9.2 Unt. Konj.		10	22.2 Westl. El.	März	18	3.9 Unt. Konj.
	17	11.4 Westl. El.		17	10.4 Ob. Konj.	April	6	4.8 Westl. El.
	21	14.8 Ob. Konj.		22	22.9 Östl. El.		26	14.1 Ob. Konj.
	25	11.3 Östl. El.		27	6.1 Unt. Konj.	Mai	16	15.9 Östl. El.
	29	6.7 Unt. Konj.	März	4	6.3 Westl. El.	Juni	4	11.7 Unt. Konj.
Mai	3	9.0 Westl. El.		10	18.4 Ob. Konj.		23	18.2 Westl. El.
	7	12.4 Ob. Konj.		16	6.9 Östl. El.	Juli	14	14.5 Ob. Konj.
	11	9.0 Östl. El.		20	13.7 Unt. Konj.	Aug.	4	5.8 Östl. El.
	15	4.5 Unt. Konj.	April	1	1.6 Ob. Konj.			
	19	6.7 Westl. El.		6	14.4 Östl. El.			
	23	10.3 Ob. Konj.		10	21.1 Unt. Konj.			
	27	7.0 Östl. El.		15	20.8 Westl. El.			
	31	2.6 Unt. Konj.						
Juni	4	4.9 Westl. El.						
	8	8.6 Ob. Konj.						





## Präzession in Rektaszension ( $p_\alpha$ ) und Deklination ( $p_\delta$ )

		$p_\alpha$														$p_\delta$
$\alpha$	$\delta$	+60°	+50°	+40°	+30°	+20°	+10°	0°	-10°	-20°	-30°	-40°	-50°	-60°		
0	h	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0
1		3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	+19.4	
2		4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	+17.4	
3		4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	+14.2	
4		5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	+10.0	
5		5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	+ 5.2	
6		5.39	4.67	4.19	3.84	3.56	3.31	3.07	2.84	2.59	2.30	1.95	1.48	0.76	0.0	
7		5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	- 5.2	
8		5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	-10.0	
9		4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	-14.2	
10		4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	-17.4	
11		3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	-19.4	
12		3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	-20.0	
13		2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	-19.4	
14		1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	-17.4	
15		1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	-14.2	
16		1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	-10.0	
17		0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	- 5.2	
18		0.76	1.48	1.95	2.30	2.59	2.84	3.07	3.31	3.56	3.84	4.19	4.67	5.39	0.0	
19		0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	+ 5.2	
20		1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	+10.0	
21		1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	+14.2	
22		1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	+17.4	
23		2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	+19.4	
24		3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0	

## Präzessionswerte und Schiefe der Ekliptik

Zeit	$m$	$n$	$\psi$	$\log \pi$	$\Pi$	$\epsilon$
1900.0	3.07233	20.0468	50.2564	9.67309	173° 57.06	23° 27' 8.26
1905.0	3.07243	20.0464	50.2575	9.67305	173 59.80	23 27 5.92
1910.0	3.07252	20.0460	50.2586	9.67302	174 2.53	23 27 3.58
1915.0	3.07261	20.0456	50.2597	9.67299	174 5.27	23 27 1.23
1920.0	3.07271	20.0451	50.2608	9.67296	174 8.01	23 26 58.89
1925.0	3.07280	20.0447	50.2620	9.67293	174 10.75	23 26 56.55
1930.0	3.07289	20.0443	50.2631	9.67290	174 13.49	23 26 54.21

Präzession in Länge $p_\lambda$											Präz. in Br. $p_\beta$	
Länge $\lambda$	Breite $\beta$										Länge $\lambda$	Präzession $p_\beta$
	0°	+1°	+2°	+3°	+4°	+5°	+6°	+7°	+8°	+9°		
0°	50.262	.254	.245	.237	.229	50.221	.213	.205	.196	.188	0°	+0.048
10	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	10	+0.128
20	.262	.255	.247	.240	.232	.225	.217	.210	.202	.195	20	+0.205
30	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	30	+0.275
40	50.262	.256	.251	.245	.239	50.233	.227	.221	.216	.210	40	+0.338
50	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	50	+0.390
60	.262	.259	.255	.252	.249	.245	.242	.238	.235	.231	60	+0.430
70	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	70	+0.456
80	50.262	.261	.261	.260	.259	50.259	.258	.258	.257	.257	80	+0.470
90	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	90	+0.469
100	.262	.264	.267	.269	.271	.273	.275	.277	.280	.282	100	+0.453
110	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	110	+0.424
120	50.262	.267	.271	.276	.281	50.286	.291	.296	.301	.306	120	+0.382
130	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	130	+0.328
140	.262	.269	.275	.282	.289	.296	.303	.310	.317	.324	140	+0.265
150	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	150	+0.193
160	50.262	.270	.278	.286	.294	50.302	.310	.318	.326	.334	160	+0.116
170	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	170	+0.035
180	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	180	-0.048
190	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	190	-0.128
200	50.262	.269	.277	.284	.292	50.299	.307	.314	.322	.329	200	-0.205
210	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	210	-0.275
220	.262	.268	.273	.279	.285	.291	.297	.303	.308	.314	220	-0.338
230	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	230	-0.390
240	50.262	.265	.269	.272	.275	50.279	.282	.286	.289	.293	240	-0.430
250	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	250	-0.456
260	.262	.263	.263	.264	.265	.265	.266	.266	.267	.267	260	-0.470
270	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	270	-0.469
280	50.262	.260	.257	.255	.253	50.251	.249	.247	.244	.242	280	-0.453
290	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	290	-0.424
300	.262	.257	.253	.248	.243	.238	.233	.228	.223	.218	300	-0.382
310	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	310	-0.328
320	50.262	.255	.249	.242	.235	50.228	.221	.214	.207	.200	320	-0.265
330	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	330	-0.193
340	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	340	-0.116
350	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	350	-0.035
360	50.262	.254	.245	.237	.229	50.221	.213	.205	.196	.188	360	+0.048



Präzession in Länge $p_\lambda$											Präz. in Br. $p_\beta$	
Länge $\lambda$	Breite $\beta$										Länge $\lambda$	Präzession $p_\beta$
	0°	—1°	—2°	—3°	—4°	—5°	—6°	—7°	—8°	—9°		
0	50.262	.270	.279	.287	.295	50.303	.311	.319	.328	.336	0	+0.048
10	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	10	+0.128
20	.262	.269	.277	.284	.292	.299	.307	.314	.322	.329	20	+0.205
30	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	30	+0.275
40	50.262	.268	.273	.279	.285	50.291	.297	.303	.308	.314	40	+0.338
50	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	50	+0.390
60	.262	.265	.269	.272	.275	.279	.282	.286	.289	.293	60	+0.430
70	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	70	+0.456
80	50.262	.263	.263	.264	.265	50.265	.266	.266	.267	.267	80	+0.470
90	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	90	+0.469
100	.262	.260	.257	.255	.253	.251	.249	.247	.244	.242	100	+0.453
110	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	110	+0.424
120	50.262	.257	.253	.248	.243	50.238	.233	.228	.223	.218	120	+0.382
130	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	130	+0.328
140	.262	.255	.249	.242	.235	.228	.221	.214	.207	.200	140	+0.265
150	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	150	+0.193
160	50.262	.254	.246	.238	.230	50.222	.214	.206	.198	.190	160	+0.116
170	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	170	+0.035
180	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	180	—0.048
190	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	190	—0.128
200	50.262	.255	.247	.240	.232	50.225	.217	.210	.202	.195	200	—0.205
210	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	210	—0.275
220	.262	.256	.251	.245	.239	.233	.227	.221	.216	.210	220	—0.338
230	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	230	—0.390
240	50.262	.259	.255	.252	.249	50.245	.242	.238	.235	.231	240	—0.430
250	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	250	—0.456
260	.262	.261	.261	.260	.259	.259	.258	.258	.257	.257	260	—0.470
270	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	270	—0.469
280	50.262	.264	.267	.269	.271	50.273	.275	.277	.280	.282	280	—0.453
290	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	290	—0.424
300	.262	.267	.271	.276	.281	.286	.291	.296	.301	.306	300	—0.382
310	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	310	—0.328
320	50.262	.269	.275	.282	.289	50.296	.303	.310	.317	.324	320	—0.265
330	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	330	—0.193
340	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	340	—0.116
350	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	350	—0.035
360	50.262	.270	.279	.287	.295	50.303	.311	.319	.328	.336	360	+0.048

h m	+30°		+32°		+34°		+36°		+38°		+40°		+42°		+44°		+46°		+48°		+50°	
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m
-30	4	45.4	4	38.8	4	31.8	4	24.4	4	16.5	4	8.1	3	58.9	3	48.9	3	37.9	3	25.7	3	11.8
29	4	48.6	4	42.3	4	35.6	4	28.6	4	21.1	4	13.0	4	4.3	3	54.9	3	44.5	3	33.0	3	20.1
28	4	51.7	4	45.7	4	39.3	4	32.6	4	25.5	4	17.8	4	9.6	4	0.7	3	50.9	3	40.1	3	28.0
27	4	54.7	4	49.0	4	42.9	4	36.5	4	29.8	4	22.5	4	14.7	4	6.2	3	57.0	3	46.9	3	35.5
26	4	57.7	4	52.2	4	46.5	4	40.4	4	33.9	4	27.1	4	19.7	4	11.7	4	3.0	3	53.4	3	42.8
25	5	0.6	4	55.4	4	49.9	4	44.2	4	38.0	4	31.5	4	24.5	4	16.9	4	8.7	3	59.7	3	49.7
24	5	3.5	4	58.5	4	53.3	4	47.8	4	42.0	4	35.8	4	29.2	4	22.0	4	14.3	4	5.8	3	56.5
23	5	6.3	5	1.6	4	56.6	4	51.4	4	45.9	4	40.1	4	33.8	4	27.0	4	19.7	4	11.8	4	3.0
22	5	9.0	5	4.6	4	59.9	4	55.0	4	49.7	4	44.2	4	38.3	4	31.9	4	25.0	4	17.5	4	9.3
21	5	11.7	5	7.5	5	3.1	4	58.4	4	53.5	4	48.3	4	42.7	4	36.7	4	30.2	4	23.2	4	15.4
-20	5	14.4	5	10.4	5	6.2	5	1.8	4	57.2	4	52.3	4	47.0	4	41.3	4	35.3	4	28.7	4	21.4
19	5	17.0	5	13.3	5	9.3	5	5.2	5	0.8	4	56.2	4	51.2	4	45.9	4	40.2	4	34.0	4	27.3
18	5	19.6	5	16.1	5	12.4	5	8.5	5	4.4	5	0.0	4	55.4	4	50.4	4	45.1	4	39.3	4	33.0
17	5	22.2	5	18.9	5	15.4	5	11.7	5	7.9	5	3.8	4	59.5	4	54.9	4	49.9	4	44.5	4	38.6
16	5	24.7	5	21.6	5	18.4	5	14.9	5	11.4	5	7.5	5	3.5	4	59.2	4	54.6	4	49.5	4	44.1
15	5	27.2	5	24.3	5	21.3	5	18.1	5	14.8	5	11.2	5	7.5	5	3.5	4	59.2	4	54.5	4	49.5
14	5	29.7	5	27.0	5	24.2	5	21.3	5	18.2	5	14.9	5	11.4	5	7.7	5	3.7	4	59.5	4	54.8
13	5	32.1	5	29.7	5	27.1	5	24.4	5	21.5	5	18.5	5	15.3	5	11.9	5	8.2	5	4.3	5	0.0
12	5	34.6	5	32.3	5	29.9	5	27.4	5	24.8	5	22.1	5	19.1	5	16.0	5	12.6	5	9.0	5	5.1
11	5	37.0	5	34.9	5	32.7	5	30.5	5	28.1	5	25.6	5	22.9	5	20.1	5	17.0	5	13.7	5	10.2
-10	5	39.4	5	37.5	5	35.5	5	33.5	5	31.3	5	29.1	5	26.7	5	24.1	5	21.4	5	18.4	5	15.2
9	5	41.7	5	40.1	5	38.3	5	36.5	5	34.6	5	32.5	5	30.4	5	28.1	5	25.7	5	23.0	5	20.2
8	5	44.1	5	42.6	5	41.1	5	39.5	5	37.8	5	36.0	5	34.1	5	32.1	5	29.9	5	27.6	5	25.1
7	5	46.4	5	45.2	5	43.8	5	42.4	5	41.0	5	39.4	5	37.8	5	36.0	5	34.2	5	32.2	5	30.0
6	5	48.8	5	47.7	5	46.6	5	45.4	5	44.1	5	42.8	5	41.4	5	40.0	5	38.4	5	36.7	5	34.9
5	5	51.1	5	50.2	5	49.3	5	48.3	5	47.3	5	46.2	5	45.1	5	43.9	5	42.6	5	41.2	5	39.7
4	5	53.4	5	52.7	5	52.0	5	51.2	5	50.4	5	49.6	5	48.7	5	47.8	5	46.8	5	45.7	5	44.5
3	5	55.8	5	55.2	5	54.7	5	54.1	5	53.6	5	53.0	5	52.3	5	51.6	5	50.9	5	50.1	5	49.3
2	5	58.1	5	57.7	5	57.4	5	57.1	5	56.7	5	56.3	5	55.9	5	55.5	5	55.1	5	54.6	5	54.1
1	6	0.4	6	0.2	6	0.1	6	0.0	5	59.8	5	59.7	5	59.5	5	59.4	5	59.2	5	59.0	5	58.9
0	6	2.7	6	2.7	6	2.8	6	2.9	6	2.9	6	3.0	6	3.1	6	3.2	6	3.4	6	3.5	6	3.6
+1	6	5.0	6	5.2	6	5.5	6	5.8	6	6.1	6	6.4	6	6.7	6	7.1	6	7.5	6	7.9	6	8.4
2	6	7.3	6	7.7	6	8.2	6	8.7	6	9.2	6	9.8	6	10.3	6	11.0	6	11.6	6	12.4	6	13.2
3	6	9.6	6	10.3	6	10.9	6	11.6	6	12.3	6	13.1	6	14.0	6	14.8	6	15.8	6	16.8	6	18.0
4	6	11.9	6	12.8	6	13.6	6	14.5	6	15.5	6	16.5	6	17.6	6	18.7	6	20.0	6	21.3	6	22.8
5	6	14.3	6	15.3	6	16.4	6	17.5	6	18.6	6	19.9	6	21.2	6	22.6	6	24.2	6	25.8	6	27.6
6	6	16.6	6	17.8	6	19.1	6	20.4	6	21.8	6	23.3	6	24.9	6	26.6	6	28.4	6	30.4	6	32.5
7	6	19.0	6	20.4	6	21.8	6	23.4	6	25.0	6	26.7	6	28.6	6	30.5	6	32.6	6	34.9	6	37.4
8	6	21.3	6	22.9	6	24.6	6	26.4	6	28.2	6	30.2	6	32.3	6	34.5	6	36.9	6	39.5	6	42.3
9	6	23.7	6	25.5	6	27.4	6	29.4	6	31.4	6	33.7	6	36.0	6	38.5	6	41.2	6	44.1	6	47.3
10	6	26.1	6	28.1	6	30.2	6	32.4	6	34.7	6	37.2	6	39.8	6	42.5	6	45.6	6	48.8	6	52.3
+11	6	28.5	6	30.7	6	33.0	6	35.4	6	38.0	6	40.7	6	43.6	6	46.6	6	49.9	6	53.5	6	57.4
12	6	31.0	6	33.4	6	35.9	6	38.5	6	41.3	6	44.3	6	47.4	6	50.8	6	54.4	6	58.3	7	2.5
13	6	33.4	6	36.0	6	38.8	6	41.6	6	44.7	6	47.9	6	51.3	6	54.9	6	58.9	7	3.1	7	7.8
14	6	35.9	6	38.7	6	41.7	6	44.8	6	48.0	6	51.5	6	55.2	6	59.2	7	3.4	7	8.0	7	13.1
15	6	38.4	6	41.4	6	44.6	6	47.9	6	51.5	6	55.2	6	59.2	7	3.5	7	8.1	7	13.0	7	18.5
16	6	41.0	6	44.2	6	47.6	6	51.2	6	54.9	6	58.9	7	3.2	7	7.8	7	12.7	7	18.1	7	23.9
17	6	43.5	6	47.0	6	50.6	6	54.4	6	58.5	7	2.7	7	7.3	7	12.2	7	17.5	7	23.3	7	29.5
18	6	46.1	6	49.8	6	53.7	6	57.7	7	2.0	7	6.6	7	11.5	7	16.7	7	22.4	7	28.5	7	35.3
19	6	48.8	6	52.7	6	56.8	7	1.1	7	5.7	7	10.5	7	15.7	7	21.3	7	27.4	7	33.9	7	41.1
20	6	51.5	6	55.6	6	59.9	7	4.5	7	9.4	7	14.5	7	20.1	7	26.0	7	32.4	7	39.4	7	47.1
+21	6	54.2	6	58.6	7	3.1	7	8.0	7	13.1	7	18.6	7	24.5	7	30.8	7	37.6	7	45.1	7	53.3
22	6	56.9	7	1.6	7	6.4	7	11.5	7	17.0	7	22.8	7	29.0	7	35.7	7	42.9	7	50.9	7	59.6
23	6	59.8	7	4.6	7	9.7	7	15.1	7	20.9	7	27.0	7	33.6	7	40.7	7	48.4	7	56.8	8	6.1
24	7	2.6	7	7.7	7	13.1	7	18.8	7	24.9	7	31.3	7	38.3	7	45.8	7	54.0	8	2.9	8	12.4
25	7	5.6	7	10.9	7	16.6	7	22.6	7	29.0	7	35.8	7	43.1	7	51.1	7	59.8	8	9.3	8	19.9
26	7	8.5	7	14.2	7	20.1	7	26.4	7	33.2	7	40.4	7	48.1	7	56.5	8	5.7	8	15.8	8	27.1
27	7	11.6	7	17.5	7	23.8	7	30.4	7	37.5	7	45.0	7	53.2	8	2.1	8	11.8	8	22.6	8	34.7
28	7	14.7	7	20.9	7	27.5	7	34.4	7	41.9	7	49.9	7	58.5	8	7.9	8	18.2	8	29.7	8	42.6
29	7	17.9	7	24.4	7	31.3	7	38.6	7	46.4	7	54.8	8	3.9	8	13.9	8	24.8	8	37.1	8	51.0
30	7	21.2	7	28.0	7	35.2	7	42.9	7	51.1	7	59.9	8	9.5	8	20.1	8	31.7	8	44.8	8	59.7



$\delta$	$+50^\circ$	$+51^\circ$	$+52^\circ$	$+53^\circ$	$+54^\circ$	$+55^\circ$	$+56^\circ$	$+57^\circ$	$+58^\circ$	$+59^\circ$	$+60^\circ$
	$h$ $m$	$h$ $m$	$h$ $m$	$h$ $m$	$h$ $m$	$h$ $m$	$h$ $m$	$h$ $m$	$h$ $m$	$h$ $m$	$h$ $m$
-30	3 11.8	3 4.1	2 55.8	2 46.8	2 36.9	2 25.9	2 13.5	1 59.3	1 42.4	1 21.1	0 49.7
29	3 20.1	3 12.9	3 5.3	2 57.0	2 48.0	2 38.1	2 27.1	2 14.7	2 0.4	1 43.4	1 21.9
28	3 28.0	3 21.3	3 14.2	3 6.6	2 58.3	2 49.3	2 39.4	2 28.7	2 15.9	2 1.6	1 44.5
27	3 35.5	3 29.3	3 22.7	3 15.7	3 8.0	2 59.8	2 50.8	2 40.8	2 29.8	2 17.3	2 2.9
26	3 42.8	3 37.0	3 30.8	3 24.2	3 17.2	3 9.6	3 1.4	2 52.4	2 42.4	2 31.3	2 18.8
25	3 49.7	3 44.3	3 38.6	3 32.4	3 25.9	3 18.9	3 11.3	3 3.1	2 54.1	2 44.1	2 33.0
24	3 56.5	3 51.4	3 46.0	3 40.3	3 34.3	3 27.8	3 20.8	3 13.2	3 5.0	2 56.0	2 46.0
23	4 3.0	3 58.2	3 53.2	3 47.9	3 42.3	3 36.2	3 29.8	3 22.8	3 15.3	3 7.1	2 58.0
22	4 9.3	4 4.9	4 0.2	3 55.2	3 50.0	3 44.3	3 38.4	3 31.9	3 25.0	3 17.5	3 9.3
21	4 15.4	4 11.3	4 6.9	4 2.3	3 57.4	3 52.2	3 46.6	3 40.7	3 34.3	3 27.4	3 19.9
-19	4 21.4	4 17.5	4 13.5	4 9.1	4 4.6	3 59.8	3 54.6	3 49.1	3 43.2	3 36.9	3 30.0
19	4 27.3	4 23.7	4 19.9	4 15.8	4 11.6	4 7.1	4 2.3	3 57.2	3 51.8	3 45.9	3 39.6
18	4 33.0	4 29.6	4 26.1	4 22.3	4 18.4	4 14.2	4 9.8	4 5.1	4 0.1	3 54.7	3 48.9
17	4 38.6	4 35.4	4 32.1	4 28.7	4 25.0	4 21.1	4 17.0	4 12.7	4 8.1	4 3.1	3 57.8
16	4 44.1	4 41.2	4 38.1	4 34.9	4 31.5	4 27.9	4 24.1	4 20.1	4 15.9	4 11.3	4 6.4
15	4 49.5	4 46.8	4 43.9	4 41.0	4 37.8	4 34.5	4 31.0	4 27.4	4 23.4	4 19.3	4 14.8
14	4 54.8	4 52.3	4 49.7	4 46.9	4 44.1	4 41.0	4 37.8	4 34.4	4 30.8	4 27.0	4 22.9
13	5 0.0	4 57.7	4 55.3	4 52.8	4 50.2	4 47.4	4 44.5	4 41.4	4 38.1	4 34.6	4 30.9
12	5 5.1	5 3.0	5 0.9	4 58.6	4 56.2	4 53.7	4 51.0	4 48.2	4 45.2	4 42.0	4 38.7
11	5 10.2	5 8.3	5 6.4	5 4.3	5 2.1	4 59.8	4 57.4	4 54.9	4 52.2	4 49.3	4 46.3
-10	5 15.2	5 13.5	5 11.8	5 9.9	5 7.9	5 5.9	5 3.7	5 1.5	4 59.1	4 56.5	4 53.8
9	5 20.2	5 18.7	5 17.1	5 15.5	5 13.7	5 11.9	5 10.0	5 8.0	5 5.8	5 3.6	5 1.2
8	5 25.1	5 23.8	5 22.4	5 21.0	5 19.5	5 17.9	5 16.2	5 14.4	5 12.5	5 10.6	5 8.5
7	5 30.0	5 28.9	5 27.7	5 26.4	5 25.1	5 23.8	5 22.3	5 20.8	5 19.2	5 17.5	5 15.7
6	5 34.9	5 33.9	5 32.9	5 31.8	5 30.7	5 29.6	5 28.4	5 27.1	5 25.7	5 24.3	5 22.8
5	5 39.7	5 38.9	5 38.1	5 37.2	5 36.3	5 35.4	5 34.4	5 33.4	5 32.2	5 31.1	5 29.9
4	5 44.5	5 43.9	5 43.3	5 42.6	5 41.9	5 41.2	5 40.4	5 39.6	5 38.7	5 37.8	5 36.9
3	5 49.3	5 48.9	5 48.4	5 47.9	5 47.4	5 46.9	5 46.3	5 45.8	5 45.2	5 44.5	5 43.8
2	5 54.1	5 53.8	5 53.5	5 53.3	5 52.9	5 52.6	5 52.3	5 52.0	5 51.6	5 51.2	5 50.8
1	5 58.9	5 58.8	5 58.7	5 58.6	5 58.4	5 58.3	5 58.2	5 58.1	5 58.0	5 57.9	5 57.7
0	6 3.6	6 3.7	6 3.8	6 3.9	6 4.0	6 4.1	6 4.2	6 4.3	6 4.4	6 4.5	6 4.7
+1	6 8.4	6 8.6	6 8.9	6 9.2	6 9.5	6 9.8	6 10.1	6 10.4	6 10.8	6 11.2	6 11.6
2	6 13.2	6 13.6	6 14.0	6 14.5	6 15.0	6 15.5	6 16.0	6 16.6	6 17.2	6 17.8	6 18.5
3	6 18.0	6 18.6	6 19.2	6 19.8	6 20.5	6 21.2	6 22.0	6 22.8	6 23.6	6 24.6	6 25.5
4	6 22.8	6 23.5	6 24.4	6 25.2	6 26.1	6 27.0	6 28.0	6 29.0	6 30.1	6 31.3	6 32.5
5	6 27.6	6 28.6	6 29.6	6 30.6	6 31.7	6 32.8	6 34.0	6 35.3	6 36.6	6 38.1	6 39.6
6	6 32.5	6 33.6	6 34.8	6 36.0	6 37.3	6 38.7	6 40.1	6 41.6	6 43.2	6 44.9	6 46.7
7	6 37.4	6 38.7	6 40.0	6 41.5	6 43.0	6 44.6	6 46.2	6 48.0	6 49.8	6 51.8	6 53.9
8	6 42.3	6 43.8	6 45.3	6 47.0	6 48.7	6 50.5	6 52.4	6 54.4	6 56.5	6 58.8	7 1.2
9	6 47.3	6 48.9	6 50.7	6 52.6	6 54.5	6 56.5	6 58.7	7 0.9	7 3.3	7 5.9	7 8.6
10	6 52.3	6 54.2	6 56.1	6 58.2	7 0.3	7 2.6	7 5.0	7 7.5	7 10.2	7 13.1	7 16.2
+11	6 57.4	6 59.4	7 1.6	7 3.9	7 6.3	7 8.8	7 11.4	7 14.2	7 17.2	7 20.4	7 23.8
12	7 2.5	7 4.8	7 7.2	7 9.7	7 12.3	7 15.1	7 18.0	7 21.1	7 24.3	7 27.8	7 31.5
13	7 7.8	7 10.2	7 12.8	7 15.5	7 18.4	7 21.4	7 24.6	7 28.0	7 31.6	7 35.4	7 39.5
14	7 13.1	7 15.7	7 18.6	7 21.5	7 24.6	7 27.9	7 31.4	7 35.1	7 39.0	7 43.2	7 47.7
15	7 18.5	7 21.4	7 24.4	7 27.6	7 31.0	7 34.6	7 38.3	7 42.4	7 46.6	7 51.2	7 56.1
16	7 23.9	7 27.1	7 30.4	7 33.8	7 37.5	7 41.4	7 45.4	7 49.8	7 54.4	7 59.4	8 4.7
17	7 29.5	7 32.9	7 36.5	7 40.2	7 44.1	7 48.3	7 52.7	7 57.4	8 2.5	8 7.9	8 13.7
18	7 35.3	7 38.9	7 42.7	7 46.7	7 50.9	7 55.4	8 0.2	8 5.3	8 10.8	8 16.6	8 23.0
19	7 41.1	7 45.0	7 49.1	7 53.4	7 57.9	8 2.8	8 7.9	8 13.4	8 19.4	8 25.7	8 32.6
20	7 47.1	7 51.3	7 55.6	8 0.3	8 5.2	8 10.4	8 15.9	8 21.9	8 28.3	8 35.2	8 42.8
+21	7 53.3	7 57.7	8 2.4	8 7.3	8 12.6	8 18.2	8 24.2	8 30.7	8 37.6	8 45.2	8 53.5
22	7 59.6	8 4.3	8 9.4	8 14.7	8 20.3	8 26.4	8 32.8	8 39.8	8 47.4	8 55.7	9 4.8
23	8 6.1	8 11.2	8 16.6	8 22.3	8 28.3	8 34.9	8 41.9	8 49.5	8 57.7	9 6.8	9 16.9
24	8 12.9	8 18.3	8 24.0	8 30.2	8 36.7	8 43.8	8 51.4	8 59.6	8 67.7	9 18.8	9 30.0
25	8 19.9	8 25.7	8 31.8	8 38.4	8 45.5	8 53.1	9 1.4	9 10.5	9 20.5	9 31.7	9 44.4
26	8 27.1	8 33.4	8 40.0	8 47.0	8 54.7	9 3.0	9 12.1	9 22.1	9 33.2	9 45.9	10 0.6
27	8 34.7	8 41.4	8 48.5	8 56.1	9 4.4	9 13.5	9 23.5	9 34.6	9 47.3	10 1.9	10 19.5
28	8 42.6	8 49.8	8 57.5	9 5.8	9 14.8	9 24.8	9 35.9	9 48.5	10 3.1	10 20.5	10 42.0
29	8 51.0	8 58.7	9 7.0	9 16.1	9 16.0	9 27.1	9 39.6	10 4.1	10 21.5	10 43.7	11 18.1
30	8 59.7	9 8.1	9 17.2	9 27.1	9 38.2	9 50.7	10 5.1	10 22.3	10 44.4	11 18.5	—



## für Auf- und Untergang der Sonne

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

Tag	Geographische Breite $\varphi$										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
1923											
Jan. 0	-62.9 <sup>m</sup>	-58.2 <sup>m</sup>	-53.3 <sup>m</sup>	-48.1 <sup>m</sup>	-42.7 <sup>m</sup>	-36.8 <sup>m</sup>	-30.6 <sup>m</sup>	-23.9 <sup>m</sup>	-16.6 <sup>m</sup>	-8.7 <sup>m</sup>	0.0 <sup>m</sup>
10	-58.9	-54.4	-49.9	-45.0	-39.9	-34.4	-28.6	-22.2	-15.5	-8.1	0.0
20	-52.8	-48.7	-44.6	-40.2	-35.6	-30.7	-25.4	-19.9	-13.8	-7.2	0.0
30	-45.0	-41.6	-38.0	-34.2	-30.3	-26.1	-21.6	-16.8	-11.7	-6.1	0.0
Febr. 9	-36.3	-33.5	-30.6	-27.5	-24.4	-20.9	-17.3	-13.4	-9.4	-4.9	0.0
19	-27.0	-25.0	-22.7	-20.5	-18.1	-15.6	-12.8	-9.9	-6.9	-3.6	0.0
März 1	-17.4	-16.1	-14.6	-13.2	-11.6	-10.0	-8.2	-6.3	-4.4	-2.3	0.0
11	-7.7	-7.2	-6.5	-5.9	-5.1	-4.4	-3.6	-2.8	-2.0	-1.0	0.0
21	+2.0	+1.8	+1.7	+1.6	+1.4	+1.2	+1.0	+0.8	+0.5	+0.2	0.0
31	+11.6	+10.7	+9.8	+8.9	+7.9	+6.7	+5.6	+4.4	+3.0	+1.5	0.0
April 10	+21.3	+19.6	+18.0	+16.2	+14.3	+12.2	+10.1	+8.0	+5.4	+2.8	0.0
20	+30.8	+28.3	+26.0	+23.4	+20.6	+17.7	+14.7	+11.5	+7.9	+4.1	0.0
30	+39.9	+36.9	+33.7	+30.5	+26.9	+23.2	+19.3	+15.0	+10.4	+5.4	0.0
Mai 10	+48.6	+44.9	+41.1	+37.1	+32.9	+28.3	+23.5	+18.3	+12.8	+6.6	0.0
20	+56.3	+52.2	+47.7	+43.0	+38.3	+32.9	+27.4	+21.4	+14.9	+7.7	0.0
30	+62.6	+58.1	+53.2	+48.0	+42.7	+36.8	+30.6	+24.0	+16.7	+8.7	0.0
Juni 9	+66.9	+62.0	+56.9	+51.5	+45.7	+39.5	+32.9	+25.8	+17.9	+9.5	0.0
19	+68.8	+63.8	+58.6	+52.9	+47.0	+40.7	+33.9	+26.6	+18.5	+9.8	0.0
29	+68.0	+63.0	+57.9	+52.3	+46.5	+40.2	+33.5	+26.3	+18.2	+9.6	0.0
Juli 9	+64.8	+60.0	+55.1	+49.7	+44.2	+38.2	+31.8	+24.9	+17.3	+9.1	0.0
19	+59.3	+54.9	+50.4	+45.4	+40.4	+34.9	+28.9	+22.7	+15.7	+8.3	0.0
29	+52.2	+48.3	+44.3	+39.9	+35.4	+30.5	+25.4	+19.8	+13.7	+7.2	0.0
Aug. 8	+44.1	+40.7	+37.3	+33.5	+29.8	+25.6	+21.3	+16.6	+11.5	+6.0	0.0
18	+35.2	+32.5	+29.7	+26.7	+23.7	+20.4	+17.0	+13.1	+9.2	+4.8	0.0
28	+25.9	+24.0	+21.9	+19.8	+17.4	+15.1	+12.5	+9.6	+6.7	+3.5	0.0
Sept. 7	+16.5	+15.2	+13.9	+12.6	+11.1	+9.6	+7.9	+6.1	+4.3	+2.2	0.0
17	+7.0	+6.4	+5.8	+5.3	+4.7	+4.1	+3.3	+2.6	+1.9	+1.0	0.0
27	-2.7	-2.4	-2.2	-1.9	-1.7	-1.4	-1.2	-0.9	-0.6	-0.3	0.0
Okt. 7	-12.3	-11.2	-10.2	-9.2	-8.1	-6.9	-5.7	-4.5	-3.0	-1.5	0.0
17	-21.8	-20.0	-18.3	-16.4	-14.5	-12.4	-10.2	-8.0	-5.4	-2.8	0.0
27	-31.1	-28.7	-26.2	-23.6	-20.8	-17.9	-14.7	-11.5	-7.9	-4.1	0.0
Nov. 6	-40.0	-37.0	-33.8	-30.5	-26.9	-23.1	-19.1	-14.9	-10.3	-5.4	0.0
16	-48.4	-44.7	-40.9	-36.9	-32.6	-28.0	-23.2	-18.1	-12.6	-6.6	0.0
26	-55.5	-51.3	-47.0	-42.4	-37.5	-32.3	-26.9	-20.9	-14.6	-7.6	0.0
Dez. 6	-60.8	-56.3	-51.5	-46.5	-41.2	-35.5	-29.6	-23.1	-16.0	-8.5	0.0
16	-63.8	-59.0	-54.0	-48.8	-43.2	-37.3	-31.1	-24.3	-16.9	-8.9	0.0
26	-64.0	-59.2	-54.2	-49.0	-43.4	-37.5	-31.1	-24.3	-16.9	-8.9	0.0
36	-61.4	-56.7	-51.9	-46.9	-41.6	-35.9	-29.8	-23.3	-16.2	-8.5	0.0

## für Auf- und Untergang der Sonne

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen  
für den Untergang

Tag	Geographische Breite $\varphi$										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
1923											
Jan. 0	0.0	+4.7	+9.6	+14.8	+20.6	+26.5	+32.9	+39.7	+47.2	+55.3	+64.2
10	0.0	+4.4	+9.0	+13.9	+18.9	+24.6	+30.4	+36.7	+43.4	+50.8	+58.7
20	0.0	+3.8	+8.0	+12.2	+16.8	+21.5	+26.7	+32.1	+37.9	+44.2	+51.0
30	0.0	+3.2	+6.7	+10.2	+14.0	+18.0	+22.3	+26.8	+31.5	+36.7	+42.2
Febr. 9	0.0	+2.5	+5.3	+8.1	+11.1	+14.3	+17.6	+21.1	+24.8	+28.8	+33.1
19	0.0	+1.8	+3.9	+5.9	+8.1	+10.5	+12.9	+15.4	+18.1	+21.0	+24.0
März 1	0.0	+1.2	+2.5	+3.8	+5.1	+6.6	+8.2	+9.8	+11.5	+13.3	+15.1
11	0.0	+0.5	+1.1	+1.6	+2.2	+2.9	+3.6	+4.3	+4.9	+5.8	+6.6
21	0.0	-0.2	-0.3	-0.5	-0.6	-0.9	-1.1	-1.2	-1.5	-1.7	-2.1
31	0.0	-0.9	-1.7	-2.6	-3.6	-4.6	-5.7	-6.8	-8.0	-9.3	-10.5
April 10	0.0	-1.5	-3.1	-4.8	-6.6	-8.3	-10.3	-12.4	-14.6	-16.9	-19.3
20	0.0	-2.1	-4.5	-7.0	-9.6	-12.2	-15.1	-18.1	-21.4	-24.7	-28.4
30	0.0	-3.0	-6.0	-9.2	-12.6	-16.1	-19.9	-23.9	-28.2	-32.7	-37.6
Mai 10	0.0	-3.6	-7.3	-11.3	-15.5	-20.0	-24.6	-29.7	-35.2	-40.9	-47.1
20	0.0	-4.2	-8.6	-13.3	-18.2	-23.6	-29.2	-35.4	-41.9	-48.9	-56.6
30	0.0	-4.7	-9.7	-15.1	-20.7	-26.8	-33.3	-40.3	-47.9	-56.1	-65.2
Juni 9	0.0	-5.1	-10.6	-16.3	-22.5	-29.1	-36.2	-43.9	-52.3	-61.5	-71.9
19	0.0	-5.3	-10.9	-16.9	-23.3	-30.2	-37.5	-45.6	-54.4	-64.0	-75.0
29	0.0	-5.2	-10.7	-16.6	-23.0	-29.7	-37.0	-44.9	-53.6	-63.0	-73.8
Juli 9	0.0	-4.9	-10.2	-15.7	-21.6	-28.0	-34.7	-42.1	-50.0	-58.9	-68.4
19	0.0	-4.4	-9.2	-14.1	-19.5	-25.1	-31.2	-37.6	-44.7	-52.3	-60.7
29	0.0	-3.8	-8.0	-12.2	-16.8	-21.6	-26.8	-32.4	-38.2	-44.6	-51.5
Aug. 8	0.0	-3.2	-6.6	-10.1	-14.0	-17.9	-22.2	-26.7	-31.4	-36.5	-42.0
18	0.0	-2.5	-5.2	-7.9	-11.0	-14.1	-17.4	-20.9	-24.6	-28.5	-32.8
28	0.0	-1.8	-3.8	-5.8	-8.0	-10.2	-12.6	-15.2	-17.8	-20.7	-23.7
Sept. 7	0.0	-1.2	-2.4	-3.7	-5.1	-6.4	-8.0	-9.6	-11.2	-13.1	-15.0
17	0.0	-0.5	-1.0	-1.6	-2.2	-2.7	-3.4	-4.1	-4.8	-5.6	-6.3
27	0.0	+0.2	+0.4	+0.5	+0.7	+1.0	+1.1	+1.3	+1.6	+1.8	+2.1
Okt. 7	0.0	+0.9	+1.7	+2.7	+3.6	+4.7	+5.7	+6.7	+8.0	+9.2	+10.5
17	0.0	+1.6	+3.1	+4.8	+6.5	+8.4	+10.2	+12.2	+14.5	+16.7	+19.1
27	0.0	+2.2	+4.5	+6.9	+9.4	+12.2	+14.9	+17.8	+21.1	+24.3	+27.9
Nov. 6	0.0	+2.9	+5.9	+9.0	+12.4	+15.9	+19.6	+23.4	+27.7	+32.1	+37.0
16	0.0	+3.6	+7.2	+11.1	+15.2	+19.5	+24.1	+29.1	+34.3	+39.8	+45.9
26	0.0	+4.1	+8.3	+13.0	+17.8	+22.8	+28.3	+34.1	+40.3	+47.1	+54.4
Dez. 6	0.0	+4.6	+9.3	+14.4	+19.7	+25.5	+31.6	+38.1	+45.2	+52.9	+61.2
16	0.0	+4.8	+9.8	+15.2	+20.9	+27.0	+33.4	+40.4	+48.1	+56.3	+65.5
26	0.0	+4.8	+9.8	+15.2	+20.9	+27.0	+33.6	+40.6	+48.3	+56.5	+65.7
36	0.0	+4.6	+9.3	+14.5	+19.9	+25.7	+32.0	+38.5	+45.7	+53.5	+62.0

## Reduktionstafel

für Auf- und Untergang des Mondes

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

$t^*)$	Geographische Breite $\varphi$										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
3 20 <sup>m</sup>	-94.6 <sup>m</sup>	-87.9 <sup>m</sup>	-80.9 <sup>m</sup>	-73.4 <sup>m</sup>	-65.5 <sup>m</sup>	-56.9 <sup>m</sup>	-47.6 <sup>m</sup>	-37.5 <sup>m</sup>	-26.4 <sup>m</sup>	-14.0 <sup>m</sup>	0.0 <sup>m</sup>
3 30	-88.5	-82.2	-75.6	-68.5	-61.0	-52.9	-44.2	-34.8	-24.4	-12.9	0.0
3 40	-82.5	-76.5	-70.3	-63.7	-56.6	-49.1	-41.0	-32.2	-22.5	-11.9	0.0
3 50	-76.6	-71.0	-65.2	-59.0	-52.4	-45.3	-37.8	-29.6	-20.7	-10.9	0.0
4 0	-70.8	-65.6	-60.1	-54.4	-48.2	-41.7	-34.7	-27.2	-18.9	-9.9	0.0
4 10	-65.1	-60.3	-55.2	-49.9	-44.2	-38.2	-31.7	-24.8	-17.3	-9.0	0.0
4 20	-59.5	-55.0	-50.3	-45.5	-40.3	-34.8	-28.9	-22.5	-15.7	-8.2	0.0
4 30	-54.0	-49.9	-45.6	-41.2	-36.5	-31.4	-26.1	-20.4	-14.1	-7.4	0.0
4 40	-48.4	-44.8	-40.9	-36.9	-32.7	-28.2	-23.3	-18.2	-12.6	-6.6	0.0
4 50	-43.0	-39.8	-36.4	-32.7	-29.0	-24.9	-20.7	-16.1	-11.2	-5.8	0.0
5 0	-37.7	-34.8	-31.8	-28.6	-25.3	-21.8	-18.1	-14.1	-9.8	-5.0	0.0
5 10	-32.4	-29.9	-27.3	-24.6	-21.7	-18.7	-15.5	-12.1	-8.4	-4.3	0.0
5 20	-27.1	-25.0	-22.8	-20.6	-18.2	-15.6	-12.9	-10.1	-7.0	-3.6	0.0
5 30	-21.9	-20.2	-18.4	-16.6	-14.7	-12.6	-10.4	-8.1	-5.6	-2.9	0.0
5 40	-16.7	-15.4	-14.0	-12.6	-11.2	-9.6	-7.9	-6.2	-4.3	-2.2	0.0
5 50	-11.5	-10.6	-9.7	-8.7	-7.7	-6.6	-5.5	-4.2	-2.9	-1.5	0.0
6 0	-6.4	-5.8	-5.4	-4.8	-4.2	-3.6	-3.0	-2.3	-1.6	-0.9	0.0
6 10	-1.2	-1.1	-1.0	-0.9	-0.8	-0.7	-0.6	-0.4	-0.3	-0.2	0.0
6 20	+4.0	+3.7	+3.4	+3.0	+2.6	+2.3	+1.9	+1.5	+1.0	+0.5	0.0
6 30	+9.1	+8.4	+7.7	+6.9	+6.1	+5.3	+4.4	+3.4	+2.4	+1.2	0.0
6 40	+14.3	+13.2	+12.0	+10.8	+9.6	+8.2	+6.8	+5.3	+3.7	+1.9	0.0
6 50	+19.5	+18.0	+16.4	+14.8	+13.1	+11.2	+9.3	+7.2	+5.0	+2.6	0.0
7 0	+24.7	+22.8	+20.9	+18.8	+16.6	+14.2	+11.8	+9.1	+6.3	+3.3	0.0
7 10	+30.0	+27.7	+25.3	+22.8	+20.1	+17.3	+14.3	+11.1	+7.7	+4.0	0.0
7 20	+35.3	+32.6	+29.7	+26.8	+23.7	+20.3	+16.8	+13.1	+9.1	+4.7	0.0
7 30	+40.6	+37.5	+34.3	+30.9	+27.3	+23.4	+19.4	+15.1	+10.5	+5.5	0.0
7 40	+45.9	+42.5	+38.9	+35.0	+31.0	+26.6	+22.1	+17.2	+12.0	+6.2	0.0
7 50	+51.4	+47.6	+43.5	+39.2	+34.7	+29.9	+24.8	+19.3	+13.5	+7.0	0.0
8 0	+56.9	+52.7	+48.2	+43.5	+38.5	+33.2	+27.6	+21.5	+15.0	+7.8	0.0
8 10	+62.5	+57.9	+53.0	+47.9	+42.4	+36.6	+30.4	+23.8	+16.6	+8.6	0.0
8 20	+68.2	+63.2	+57.9	+52.3	+46.4	+40.1	+33.3	+26.1	+18.2	+9.5	0.0
8 30	+74.0	+68.5	+62.9	+56.9	+50.5	+43.7	+36.4	+28.5	+19.8	+10.5	0.0
8 40	+79.8	+74.0	+67.9	+61.5	+54.7	+47.3	+39.5	+30.9	+21.6	+11.4	0.0
8 50	+85.8	+79.6	+73.1	+66.3	+59.0	+51.1	+42.7	+33.5	+23.5	+12.5	0.0
9 0	+91.9	+85.3	+78.4	+71.2	+63.4	+55.0	+46.0	+36.3	+25.5	+13.5	0.0

\*)  $t$  ist beim Aufgange der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergange der Zeitunterschied zwischen Kulmination und Untergang



## für Auf- und Untergang des Mondes

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen  
für den Untergang

$t^*)$	Geographische Breite $\varphi$										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
3 <sup>h</sup> 20 <sup>m</sup>	0.0	+7.7	+16.1	+25.2	+35.1	+46.1	+58.4	+72.5	+89.1	+109.7	+138.1
3 30	0.0	+7.1	+14.7	+22.9	+31.8	+41.6	+52.4	+64.5	+78.3	+94.5	+114.3
3 40	0.0	+6.5	+13.4	+20.9	+28.9	+37.6	+47.2	+57.7	+69.4	+82.7	+98.2
3 50	0.0	+5.9	+12.2	+19.0	+26.2	+34.0	+42.5	+51.7	+61.9	+73.3	+86.1
4 0	0.0	+5.4	+11.1	+17.2	+23.7	+30.8	+38.2	+46.3	+55.2	+65.0	+76.0
4 10	0.0	+4.9	+10.1	+15.6	+21.4	+27.7	+34.4	+41.6	+49.4	+57.9	+67.3
4 20	0.0	+4.5	+9.1	+14.0	+19.2	+24.8	+30.8	+37.3	+44.0	+51.5	+59.6
4 30	0.0	+4.0	+8.1	+12.5	+17.2	+22.2	+27.5	+33.1	+39.1	+45.7	+52.7
4 40	0.0	+3.5	+7.3	+11.2	+15.3	+19.7	+24.3	+29.3	+34.5	+40.2	+46.3
4 50	0.0	+3.1	+6.4	+9.8	+13.4	+17.3	+21.4	+25.6	+30.2	+35.1	+40.4
5 0	0.0	+2.7	+5.5	+8.5	+11.6	+15.0	+18.5	+22.2	+26.1	+30.3	+34.8
5 10	0.0	+2.3	+4.7	+7.2	+10.0	+12.8	+15.7	+18.9	+22.2	+25.7	+29.5
5 20	0.0	+2.0	+3.9	+6.0	+8.3	+10.7	+13.1	+15.7	+18.4	+21.3	+24.4
5 30	0.0	+1.6	+3.2	+4.8	+6.7	+8.5	+10.5	+12.6	+14.8	+17.1	+19.6
5 40	0.0	+1.2	+2.4	+3.7	+5.0	+6.5	+7.9	+9.5	+11.2	+13.0	+14.8
5 50	0.0	+0.8	+1.7	+2.6	+3.4	+4.4	+5.5	+6.5	+7.7	+8.9	+10.2
6 0	0.0	+0.5	+0.9	+1.4	+1.9	+2.4	+3.0	+3.6	+4.2	+4.9	+5.6
6 10	0.0	+0.1	+0.2	+0.2	+0.4	+0.5	+0.6	+0.7	+0.8	+0.9	+1.1
6 20	0.0	-0.3	-0.6	-0.9	-1.2	-1.5	-1.9	-2.3	-2.6	-3.0	-3.5
6 30	0.0	-0.6	-1.3	-2.0	-2.7	-3.5	-4.3	-5.2	-6.0	-7.0	-8.0
6 40	0.0	-1.0	-2.1	-3.1	-4.3	-5.5	-6.8	-8.1	-9.5	-11.0	-12.6
6 50	0.0	-1.3	-2.9	-4.3	-5.9	-7.5	-9.4	-11.2	-13.1	-15.1	-17.3
7 0	0.0	-1.7	-3.6	-5.5	-7.5	-9.6	-11.9	-14.2	-16.7	-19.3	-22.2
7 10	0.0	-2.1	-4.4	-6.7	-9.2	-11.7	-14.5	-17.4	-20.4	-23.7	-27.1
7 20	0.0	-2.5	-5.1	-7.9	-10.8	-13.8	-17.1	-20.6	-24.2	-28.1	-32.3
7 30	0.0	-2.9	-6.0	-9.2	-12.6	-16.1	-19.9	-24.0	-28.2	-32.8	-37.7
7 40	0.0	-3.3	-6.9	-10.6	-14.4	-18.5	-22.9	-27.5	-32.4	-37.8	-43.4
7 50	0.0	-3.8	-7.7	-12.0	-16.3	-21.0	-25.9	-31.3	-36.9	-43.0	-49.6
8 0	0.0	-4.2	-8.7	-13.4	-18.3	-23.7	-29.2	-35.3	-41.7	-48.7	-56.3
8 10	0.0	-4.7	-9.6	-14.9	-20.4	-26.4	-32.6	-39.5	-46.8	-54.8	-63.5
8 20	0.0	-5.2	-10.6	-16.4	-22.6	-29.2	-36.3	-44.0	-52.3	-61.5	-71.6
8 30	0.0	-5.7	-11.7	-18.1	-25.0	-32.4	-40.4	-49.1	-58.6	-69.1	-81.0
8 40	0.0	-6.3	-12.9	-19.9	-27.6	-35.8	-44.9	-54.9	-65.7	-77.9	-92.1
8 50	0.0	-6.8	-14.1	-21.9	-30.5	-39.7	-49.8	-61.2	-73.8	-88.5	-106.1
9 0	0.0	-7.4	-15.4	-24.1	-33.7	-44.1	-55.3	-68.4	-83.6	-101.4	-125.9

$t^*)$   $t$  ist beim Aufgange der Zeitunterschied zwischen Aufgang und Kulmination,  
beim Untergange der Zeitunterschied zwischen Kulmination und Untergang

## Julianische Periode

## I. Anzahl der am o. Januar seit Anfang der Periode verfloßenen Tage

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21057	57582	94107	30632	67157	03682	40207	76732	13257	49782
4	22518	59043	95568	32093	68618	05143	41668	78193	14718	51243
8	23979	60504	97029	33554	70079	06604	43129	79654	16179	52704
12	25440	61965	98490	35015	71540	08065	44590	81115	17640	54165
16	26901	63426	<u>99951</u>	36476	73001	09526	46051	82576	19101	55626
20	28362	64887	01412	37937	74462	10987	47512	84037	20562	57087
24	29823	66348	02873	39398	75923	12448	48973	85498	22023	58548
28	31284	67809	04334	40859	77384	13909	50434	86959	23484	60009
32	32745	69270	05795	42320	78845	15370	51895	88420	24945	61470
36	34206	70731	07256	43781	80306	16831	53356	89881	26406	62931
40	35667	72192	08717	45242	81767	18292	54817	91342	27867	64392
44	37128	73653	10178	46703	83228	19753	56278	92803	29328	65853
48	38589	75114	11639	48164	84689	21214	57739	94264	30789	67314
52	40050	76575	13100	49625	86150	22675	59200	95725	32250	68775
56	41511	78036	14561	51086	87611	24136	60661	97186	33711	70236
60	42972	79497	16022	52547	89072	25597	62122	<u>98647</u>	35172	71697
64	44433	80958	17483	54008	90533	27058	63583	00108	36633	73158
68	45894	82419	18944	55469	91994	28519	65044	01569	38094	74619
72	47355	83880	20405	56930	93455	29980	66505	03030	39555	76080
76	48816	85341	21866	58391	94916	31441	67966	04491	41016	77541
80	50277	86802	23327	59852	96377	32902	69427	05952	42477	79002
84	51738	88263	24788	61313	97838	34363	70888	07413	43938	80463
88	53199	89724	26249	62774	<u>99299</u>	35824	72349	08874	45399	81924
92	54660	91185	27710	64235	00760	37285	73810	10335	46860	83385
96	56121	92646	29171	65696	02221	38746	75271	11796	48321	84846
100	57582	94107	30632	67157	03682	40207	76732	13257	49782	86307
	17	17	18	18	19	19	19	20	20	20

## Ia. Anzahl der am o. jedes Monats seit Beginn der Schaltperiode verfloßenen Tage

Jahr	Jan. o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o
0	0	31	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

## Julianische Periode

## I. Anzahl der am o. Januar seit Anfang der Periode verfloßenen Tage

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86307	22832	59357	95882	32407	68932	05447	41971 <sup>1)</sup>	78495 <sup>1)</sup>	15019 <sup>1)</sup>
4	87768	24293	60818	97343	33868	70393	06908	43432	79956	16480
8	89229	25754	62279	<u>98804</u>	35329	71854	08369	44893	81417	17941
12	90690	27215	63740	00265	36790	73315	09830	46354	82878	19402
16	92151	28676	65201	01726	38251	74776	11291	47815	84339	20863
20	93612	30137	66662	03187	39712	76237	12752	49276	85800	22324
24	95073	31598	68123	04648	41173	77698	14213	50737	87261	23785
28	96534	33059	69584	06109	42634	79159	15674	52198	88722	25246
32	97995	34520	71045	07570	44095	80620	17135	53659	90183	26707
36	<u>99456</u>	35981	72506	09031	45556	82081	18596	55120	91644	28168
40	00917	37442	73967	10492	47017	83542	20057	56581	93105	29629
44	02378	38903	75428	11953	48478	85003	21518	58042	94566	31090
48	03839	40364	76889	13414	49939	86464	22979	59503	96027	32551
52	05300	41825	78350	14875	51400	87925	24440	60964	97488	34012
56	06761	43286	79811	16336	52861	89386	25901	62425	<u>98949</u>	35473
60	08222	44747	81272	17797	54322	90847	27362	63886	00410	36934
64	09683	46208	82733	19258	55783	92308	28823	65347	01871	38395
68	11144	47669	84194	20719	57244	93769	30284	66808	03332	39856
72	12605	49130	85655	22180	58705	95230	31745	68269	04793	41317
76	14066	50591	87116	23641	60166	96691	33206	69730	06254	42778
80	15527	52052	88577	25102	61627	98152	34667	71191	07715	44239
84	16988	53513	90038	26563	63088	<u>99603</u>	36128	72652	09176	45700
88	18449	54974	91499	28024	64549	01064	37589	74113	10637	47161
92	19910	56435	92960	29485	66010	02525	39050	75574	12098	48622
96	21371	57896	94421	30946	67471	03986	40511	77035	13559	50083
100	22832	59357	95882	32407	68932	05447	41971 <sup>1)</sup>	78495 <sup>1)</sup>	15019 <sup>1)</sup>	51544
	21	21	21	22	22	23	23	23	24	24

<sup>1)</sup> Die Zahlen geben die am --1. Jan. seit Anfang der Periode verfloßenen Tage

## Ia. Anzahl der am o. jedes Monats seit Beginn der Schaltperiode verfloßenen Tage

Jahr	Jan. o	Febr. o	März o	Aprilo	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o
0	0 <sup>2)</sup>	31 <sup>2)</sup>	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Von 1582 Okt. 15 bis 1583 Dez. 31 sind die Zahlen der Tafel Ia um 10 zu verkleinern

<sup>2)</sup> In den Jahren 1700, 1800, 1900 um 1 zu vergrößern



## Julianische Periode

II. Anzahl der seit Beginn der Periode am o. jedes Monats  
im gregorianischen Kalender verfloßenen Tage

Jahr u. Chr.	Januar o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o	
1860	2400	410	441	470	501	531	562	592	623	654	684	715	745
1861		776	807	835	866	896	927	957	988	*019	*049	*080	*110
1862	2401	141	172	200	231	261	292	322	353	384	414	445	475
1863		506	537	565	596	626	657	687	718	749	779	810	840
1864		871	902	*931	962	992	*023	*053	*084	*115	*145	*176	*206
1865	2402	237	268	296	327	357	388	418	449	480	510	541	571
1866		602	633	661	692	722	753	783	814	845	875	906	936
1867		967	998	*026	*057	*087	*118	*148	*179	*210	*240	*271	*301
1868	2403	332	363	392	423	453	484	514	545	576	606	637	667
1869		698	729	757	788	818	849	879	910	941	971	*002	*032
1870	2404	063	094	122	153	183	214	244	275	306	336	367	397
1871		428	459	487	518	548	579	609	640	671	701	732	762
1872		793	824	853	884	914	945	975	*006	*037	*067	*098	*128
1873	2405	159	190	218	249	279	310	340	371	402	432	463	493
1874		524	555	583	614	644	675	705	736	767	797	828	858
1875		889	920	948	979	*009	*040	*070	*101	*132	*162	*193	*223
1876	2406	254	285	314	345	375	406	436	467	498	528	559	589
1877		620	651	679	710	740	771	801	832	863	893	924	954
1878		985	*016	*044	*075	*105	*136	*166	*197	*228	*258	*289	*319
1879	2407	350	381	409	440	470	501	531	562	593	623	654	684
1880		715	746	775	806	836	867	897	928	959	989	*020	*050
1881	2408	081	112	140	171	201	232	262	293	324	354	385	415
1882		446	477	505	536	566	597	627	658	689	719	750	780
1883		811	842	870	901	931	962	992	*023	*054	*084	*115	*145
1884	2409	176	207	236	267	297	328	358	389	420	450	481	511
1885		542	573	601	632	662	693	723	754	785	815	846	876
1886		907	938	966	997	*027	*058	*088	*119	*150	*180	*211	*241
1887	2410	272	303	331	362	392	423	453	484	515	545	576	606
1888		637	668	697	728	758	789	819	850	881	911	942	972
1889	2411	003	034	062	093	123	154	184	215	246	276	307	337
1890		368	399	427	458	488	519	549	580	611	641	672	702
1891		733	764	792	823	853	884	914	945	976	*006	*037	*067
1892	2412	098	129	158	189	219	250	280	311	342	372	403	433
1893		464	495	523	554	584	615	645	676	707	737	768	798
1894		829	860	888	919	949	980	*010	*041	*072	*102	*133	*163
1895	2413	194	225	253	284	314	345	375	406	437	467	498	528
1896		559	590	619	650	680	711	741	772	803	833	864	894
1897		925	956	984	*015	*045	*076	*106	*137	*168	*198	*229	*259
1898	2414	290	321	349	380	410	441	471	502	533	563	594	624
1899		655	686	714	745	775	806	836	867	898	928	959	989

## Julianische Periode

II. Anzahl der seit Beginn der Periode am o. jedes Monats  
im gregorianischen Kalender verfloßenen Tage

Jahr n. Chr.	Januar o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o	
1900	2415	020	051	079	110	140	171	201	232	263	293	324	354
1901		385	416	444	475	505	536	566	597	628	658	689	719
1902		750	781	809	840	870	901	931	962	993	*023	*054	*084
1903	2416	115	146	174	205	235	266	296	327	358	388	419	449
1904		480	511	540	571	601	632	662	693	724	754	785	815
1905		846	877	905	936	966	997	*027	*058	*089	*119	*150	*180
1906	2417	211	242	270	301	331	362	392	423	454	484	515	545
1907		576	607	635	666	696	727	757	788	819	849	880	910
1908		941	972	*001	*032	*062	*093	*123	*154	*185	*215	*246	*276
1909	2418	307	338	366	397	427	458	488	519	550	580	611	641
1910		672	703	731	762	792	823	853	884	915	945	976	*006
1911	2419	037	068	096	127	157	188	218	249	280	310	341	371
1912		402	433	462	493	523	554	584	615	646	676	707	737
1913		768	799	827	858	888	919	949	980	*011	*041	*072	*102
1914	2420	133	164	192	223	253	284	314	345	376	406	437	467
1915		498	529	557	588	618	649	679	710	741	771	802	832
1916		863	894	923	954	984	*015	*045	*076	*107	*137	*168	*198
1917	2421	229	260	288	319	349	380	410	441	472	502	533	563
1918		594	625	653	684	714	745	775	806	837	867	898	928
1919		959	990	*018	*049	*079	*110	*140	*171	*202	*232	*263	*293
1920	2422	324	355	384	415	445	476	506	537	568	598	629	659
1921		690	721	749	780	810	841	871	902	933	963	994	*024
1922	2423	055	086	114	145	175	206	236	267	298	328	359	389
1923		420	451	479	510	540	571	601	632	663	693	724	754
1924		785	816	845	876	906	937	967	998	*029	*059	*090	*120
1925	2424	151	182	210	241	271	302	332	363	394	424	455	485
1926		516	547	575	606	636	667	697	728	759	789	820	850
1927		881	912	940	971	*001	*032	*062	*093	*124	*154	*185	*215
1928	2425	246	277	306	337	367	398	428	459	490	520	551	581
1929		612	643	671	702	732	763	793	824	855	885	916	946
1930		977	*008	*036	*067	*097	*128	*158	*189	*220	*250	*281	*311
1931	2426	342	373	401	432	462	493	523	554	585	615	646	676
1932		707	738	767	798	828	859	889	920	951	981	*012	*042
1933	2427	073	104	132	163	193	224	254	285	316	346	377	407
1934		438	469	497	528	558	589	619	650	681	711	742	772
1935		803	834	862	893	923	954	984	*015	*046	*076	*107	*137
1936	2428	168	199	228	259	289	320	350	381	412	442	473	503
1937		534	565	593	624	654	685	715	746	777	807	838	868
1938		899	930	958	989	*019	*050	*080	*111	*142	*172	*203	*233
1939	2429	264	295	323	354	384	415	445	476	507	537	568	598

Red.	0 <sup>m</sup>	1 <sup>m</sup>	2 <sup>m</sup>	3 <sup>m</sup>	Red.	Red.	Red.
0	0 0 0	6 5 15	12 10 29	18 15 44	0.00	0 0	0.50 3 3
1	0 6 5	6 11 20	12 16 34	18 21 49	0.01	0 4	0.51 3 6
2	0 12 10	6 17 25	12 22 40	18 27 54	0.02	0 7	0.52 3 10
3	0 18 16	6 23 30	12 28 45	18 33 59	0.03	0 11	0.53 3 14
4	0 24 21	6 29 36	12 34 50	18 40 5	0.04	0 15	0.54 3 17
5	0 30 26	6 35 41	12 40 55	18 46 10	0.05	0 18	0.55 3 21
6	0 36 31	6 41 46	12 47 1	18 52 15	0.06	0 22	0.56 3 25
7	0 42 37	6 47 51	12 53 6	18 58 20	0.07	0 26	0.57 3 28
8	0 48 42	6 53 56	12 59 11	19 4 26	0.08	0 29	0.58 3 32
9	0 54 47	7 0 2	13 5 16	19 10 31	0.09	0 33	0.59 3 35
10	1 0 52	7 6 7	13 11 21	19 16 36	0.10	0 37	0.60 3 39
11	1 6 58	7 12 12	13 17 27	19 22 41	0.11	0 40	0.61 3 43
12	1 13 3	7 18 17	13 23 32	19 28 47	0.12	0 44	0.62 3 46
13	1 19 8	7 24 23	13 29 37	19 34 52	0.13	0 47	0.63 3 50
14	1 25 13	7 30 28	13 35 42	19 40 57	0.14	0 51	0.64 3 54
15	1 31 19	7 36 33	13 41 48	19 47 2	0.15	0 55	0.65 3 57
16	1 37 24	7 42 38	13 47 53	19 53 7	0.16	0 58	0.66 4 1
17	1 43 29	7 48 44	13 53 58	19 59 13	0.17	1 2	0.67 4 5
18	1 49 34	7 54 49	14 0 3	20 5 18	0.18	1 6	0.68 4 8
19	1 55 40	8 0 54	14 6 9	20 11 23	0.19	1 9	0.69 4 12
20	2 1 45	8 6 59	14 12 14	20 17 28	0.20	1 13	0.70 4 16
21	2 7 50	8 13 5	14 18 19	20 23 34	0.21	1 17	0.71 4 19
22	2 13 55	8 19 10	14 24 24	20 29 39	0.22	1 20	0.72 4 23
23	2 20 1	8 25 15	14 30 30	20 35 44	0.23	1 24	0.73 4 27
24	2 26 6	8 31 20	14 36 35	20 41 49	0.24	1 28	0.74 4 30
25	2 32 11	8 37 26	14 42 40	20 47 55	0.25	1 31	0.75 4 34
26	2 38 16	8 43 31	14 48 45	20 54 0	0.26	1 35	0.76 4 38
27	2 44 22	8 49 36	14 54 51	21 0 5	0.27	1 39	0.77 4 41
28	2 50 27	8 55 41	15 0 56	21 6 10	0.28	1 42	0.78 4 45
29	2 56 32	9 1 47	15 7 1	21 12 16	0.29	1 46	0.79 4 49
30	3 2 37	9 7 52	15 13 6	21 18 21	0.30	1 50	0.80 4 52
31	3 8 43	9 13 57	15 19 12	21 24 26	0.31	1 53	0.81 4 56
32	3 14 48	9 20 2	15 25 17	21 30 31	0.32	1 57	0.82 4 59
33	3 20 53	9 26 8	15 31 22	21 36 37	0.33	2 1	0.83 5 3
34	3 26 58	9 32 13	15 37 27	21 42 42	0.34	2 4	0.84 5 7
35	3 33 3	9 38 18	15 43 33	21 48 47	0.35	2 8	0.85 5 10
36	3 39 9	9 44 23	15 49 38	21 54 52	0.36	2 11	0.86 5 14
37	3 45 14	9 50 28	15 55 43	22 0 58	0.37	2 15	0.87 5 18
38	3 51 19	9 56 34	16 1 48	22 7 3	0.38	2 19	0.88 5 21
39	3 57 24	10 2 39	16 7 54	22 13 8	0.39	2 22	0.89 5 25
40	4 3 30	10 8 44	16 13 59	22 19 13	0.40	2 26	0.90 5 29
41	4 9 35	10 14 49	16 20 4	22 25 19	0.41	2 30	0.91 5 32
42	4 15 40	10 20 55	16 26 9	22 31 24	0.42	2 33	0.92 5 36
43	4 21 45	10 27 0	16 32 14	22 37 29	0.43	2 37	0.93 5 40
44	4 27 51	10 33 5	16 38 20	22 43 34	0.44	2 41	0.94 5 43
45	4 33 56	10 39 10	16 44 25	22 49 39	0.45	2 44	0.95 5 47
46	4 40 1	10 45 16	16 50 30	22 55 45	0.46	2 48	0.96 5 51
47	4 46 6	10 51 21	16 56 35	23 1 50	0.47	2 52	0.97 5 54
48	4 52 12	10 57 26	17 2 41	23 7 55	0.48	2 55	0.98 5 58
49	4 58 17	11 3 31	17 8 46	23 14 0	0.49	2 59	0.99 6 2
50	5 4 22	11 9 37	17 14 51	23 20 6	0.50	3 3	1.00 6 5
51	5 10 27	11 15 42	17 20 56	23 26 11			
52	5 16 33	11 21 47	17 27 2	23 32 16			
53	5 22 38	11 27 52	17 33 7	23 38 21			
54	5 28 43	11 33 58	17 39 12	23 44 27			
55	5 34 48	11 40 3	17 45 17	23 50 32			
56	5 40 54	11 46 8	17 51 23	23 56 37			
57	5 46 59	11 52 13	17 57 28	24 2 42			
58	5 53 4	11 58 19	18 3 33	24 8 48			
59	5 59 9	12 4 24	18 9 38	24 14 53			

Die Reduktion  
ist zur mittl. Zeit  
zu addieren



Red.	0 <sup>m</sup>	1 <sup>m</sup>	2 <sup>m</sup>	3 <sup>m</sup>	Red.	0 <sup>m</sup>	Red.	0 <sup>m</sup>
0	h o m s	h m s	h m s	h m s	0.00	o m o	0.50	3 3
1	o 6 6	6 12 21	12 18 35	18 24 50	0.01	o 4	0.51	3 7
2	o 12 12	6 18 27	12 24 42	18 30 56	0.02	o 7	0.52	3 10
3	o 18 19	6 24 33	12 30 48	18 37 2	0.03	o 11	0.53	3 14
4	o 24 25	6 30 40	12 36 54	18 43 9	0.04	o 15	0.54	3 18
5	o 30 31	6 36 46	12 43 0	18 49 15	0.05	o 18	0.55	3 21
6	o 36 37	6 42 52	12 49 7	18 55 21	0.06	o 22	0.56	3 25
7	o 42 44	6 48 58	12 55 13	19 1 27	0.07	o 26	0.57	3 29
8	o 48 50	6 55 4	13 1 19	19 7 34	0.08	o 29	0.58	3 32
9	o 54 56	7 1 11	13 7 25	19 13 40	0.09	o 33	0.59	3 36
10	1 1 2	7 7 17	13 13 31	19 19 46	0.10	o 37	0.60	3 40
11	1 7 9	7 13 23	13 19 38	19 25 52	0.11	o 40	0.61	3 43
12	1 13 15	7 19 29	13 25 44	19 31 59	0.12	o 44	0.62	3 47
13	1 19 21	7 25 36	13 31 50	19 38 5	0.13	o 48	0.63	3 51
14	1 25 27	7 31 42	13 37 56	19 44 11	0.14	o 51	0.64	3 54
15	1 31 34	7 37 48	13 44 3	19 50 17	0.15	o 55	0.65	3 58
16	1 37 40	7 43 54	13 50 9	19 56 23	0.16	o 59	0.66	4 2
17	1 43 46	7 50 1	13 56 15	20 2 30	0.17	1 2	0.67	4 5
18	1 49 52	7 56 7	14 2 21	20 8 36	0.18	1 6	0.68	4 9
19	1 55 59	8 2 13	14 8 28	20 14 42	0.19	1 10	0.69	4 13
20	2 2 5	8 8 19	14 14 34	20 20 48	0.20	1 13	0.70	4 16
21	2 8 11	8 14 26	14 20 40	20 26 55	0.21	1 17	0.71	4 20
22	2 14 17	8 20 32	14 26 46	20 33 1	0.22	1 21	0.72	4 24
23	2 20 24	8 26 38	14 32 53	20 39 7	0.23	1 24	0.73	4 27
24	2 26 30	8 32 44	14 38 59	20 45 13	0.24	1 28	0.74	4 31
25	2 32 36	8 38 51	14 45 5	20 51 20	0.25	1 32	0.75	4 35
26	2 38 42	8 44 57	14 51 11	20 57 26	0.26	1 35	0.76	4 38
27	2 44 49	8 51 3	14 57 18	21 3 32	0.27	1 39	0.77	4 42
28	2 50 55	8 57 9	15 3 24	21 9 38	0.28	1 43	0.78	4 46
29	2 57 1	9 3 16	15 9 30	21 15 45	0.29	1 46	0.79	4 49
30	3 3 7	9 9 22	15 15 36	21 21 51	0.30	1 50	0.80	4 53
31	3 9 14	9 15 28	15 21 43	21 27 57	0.31	1 54	0.81	4 57
32	3 15 20	9 21 34	15 27 49	21 34 3	0.32	1 57	0.82	5 0
33	3 21 26	9 27 41	15 33 55	21 40 10	0.33	2 1	0.83	5 4
34	3 27 32	9 33 47	15 40 1	21 46 16	0.34	2 5	0.84	5 8
35	3 33 38	9 39 53	15 46 8	21 52 22	0.35	2 8	0.85	5 11
36	3 39 45	9 45 59	15 52 14	21 58 28	0.36	2 12	0.86	5 15
37	3 45 51	9 52 5	15 58 20	22 4 35	0.37	2 16	0.87	5 19
38	3 51 57	9 58 12	16 4 26	22 10 41	0.38	2 19	0.88	5 22
39	3 58 3	10 4 18	16 10 33	22 16 47	0.39	2 23	0.89	5 26
40	4 4 10	10 10 24	16 16 39	22 22 53	0.40	2 26	0.90	5 30
41	4 10 16	10 16 30	16 22 45	22 29 0	0.41	2 30	0.91	5 33
42	4 16 22	10 22 37	16 28 51	22 35 6	0.42	2 34	0.92	5 37
43	4 22 28	10 28 43	16 34 57	22 41 12	0.43	2 37	0.93	5 41
44	4 28 35	10 34 49	16 41 4	22 47 18	0.44	2 41	0.94	5 44
45	4 34 41	10 40 55	16 47 10	22 53 24	0.45	2 45	0.95	5 48
46	4 40 47	10 47 2	16 53 16	22 59 31	0.46	2 48	0.96	5 52
47	4 46 53	10 53 8	16 59 22	23 5 37	0.47	2 52	0.97	5 55
48	4 53 0	10 59 14	17 5 29	23 11 43	0.48	2 56	0.98	5 59
49	4 59 6	11 5 20	17 11 35	23 17 49	0.49	2 59	0.99	6 3
50	5 5 12	11 11 27	17 17 41	23 23 56	0.50	3 3	1.00	6 6
51	5 11 18	11 17 33	17 23 47	23 30 2				
52	5 17 25	11 23 39	17 29 54	23 36 8				
53	5 23 31	11 29 45	17 36 0	23 42 14				
54	5 29 37	11 35 52	17 42 6	23 48 21				
55	5 35 43	11 41 58	17 48 12	23 54 27				
56	5 41 50	11 48 4	17 54 19	24 0 33				
57	5 47 56	11 54 10	18 0 25	24 6 39				
58	5 54 2	12 0 17	18 6 31	24 12 46				
59	6 0 8	12 6 23	18 12 37	24 18 52				

Die Reduktion  
ist von der Sternzeit  
zu subtrahieren

	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>		
m	d	d	d	d	d	d	s	d
0	.000000	.041667	.083333	.125000	.166667	.208333	0	0.000000
1	.000694	.042361	.084028	.125694	.167361	.209028	1	.000012
2	.001389	.043056	.084722	.126389	.168056	.209722	2	.000023
3	.002083	.043750	.085417	.127083	.168750	.210417	3	.000035
4	.002778	.044444	.086111	.127778	.169444	.211111	4	.000046
5	.003472	.045139	.086806	.128472	.170139	.211806	5	0.000058
6	.004167	.045833	.087500	.129167	.170833	.212500	6	.000069
7	.004861	.046528	.088194	.129861	.171528	.213194	7	.000081
8	.005556	.047222	.088889	.130556	.172222	.213889	8	.000093
9	.006250	.047917	.089583	.131250	.172917	.214583	9	.000104
10	.006944	.048611	.090278	.131944	.173611	.215278	10	0.000116
11	.007639	.049306	.090972	.132639	.174306	.215972	11	.000127
12	.008333	.050000	.091667	.133333	.175000	.216667	12	.000139
13	.009028	.050694	.092361	.134028	.175694	.217361	13	.000150
14	.009722	.051389	.093056	.134722	.176389	.218056	14	.000162
15	.010417	.052083	.093750	.135417	.177083	.218750	15	0.000174
16	.011111	.052778	.094444	.136111	.177778	.219444	16	.000185
17	.011806	.053472	.095139	.136806	.178472	.220139	17	.000197
18	.012500	.054167	.095833	.137500	.179167	.220833	18	.000208
19	.013194	.054861	.096528	.138194	.179861	.221528	19	.000220
20	.013889	.055556	.097222	.138889	.180556	.222222	20	0.000231
21	.014583	.056250	.097917	.139583	.181250	.222917	21	.000243
22	.015278	.056944	.098611	.140278	.181944	.223611	22	.000255
23	.015972	.057639	.099306	.140972	.182639	.224306	23	.000266
24	.016667	.058333	.100000	.141667	.183333	.225000	24	.000278
25	.017361	.059028	.100694	.142361	.184028	.225694	25	0.000289
26	.018056	.059722	.101389	.143056	.184722	.226389	26	.000301
27	.018750	.060417	.102083	.143750	.185417	.227083	27	.000313
28	.019444	.061111	.102778	.144444	.186111	.227778	28	.000324
29	.020139	.061806	.103472	.145139	.186806	.228472	29	.000336
30	.020833	.062500	.104167	.145833	.187500	.229167	30	0.000347
31	.021528	.063194	.104861	.146528	.188194	.229861	31	.000359
32	.022222	.063889	.105556	.147222	.188889	.230556	32	.000370
33	.022917	.064583	.106250	.147917	.189583	.231250	33	.000382
34	.023611	.065278	.106944	.148611	.190278	.231944	34	.000394
35	.024306	.065972	.107639	.149306	.190972	.232639	35	0.000405
36	.025000	.066667	.108333	.150000	.191667	.233333	36	.000417
37	.025694	.067361	.109028	.150694	.192361	.234028	37	.000428
38	.026389	.068056	.109722	.151389	.193056	.234722	38	.000440
39	.027083	.068750	.110417	.152083	.193750	.235417	39	.000451
40	.027778	.069444	.111111	.152778	.194444	.236111	40	0.000463
41	.028472	.070139	.111806	.153472	.195139	.236806	41	.000475
42	.029167	.070833	.112500	.154167	.195833	.237500	42	.000486
43	.029861	.071528	.113194	.154861	.196528	.238194	43	.000498
44	.030556	.072222	.113889	.155556	.197222	.238889	44	.000509
45	.031250	.072917	.114583	.156250	.197917	.239583	45	0.000521
46	.031944	.073611	.115278	.156944	.198611	.240278	46	.000532
47	.032639	.074306	.115972	.157639	.199306	.240972	47	.000544
48	.033333	.075000	.116667	.158333	.200000	.241667	48	.000556
49	.034028	.075694	.117361	.159028	.200694	.242361	49	.000567
50	.034722	.076389	.118056	.159722	.201389	.243056	50	0.000579
51	.035417	.077083	.118750	.160417	.202083	.243750	51	.000590
52	.036111	.077778	.119444	.161111	.202778	.244444	52	.000602
53	.036806	.078472	.120139	.161806	.203472	.245139	53	.000613
54	.037500	.079167	.120833	.162500	.204167	.245833	54	.000625
55	.038194	.079861	.121528	.163194	.204861	.246528	55	0.000637
56	.038889	.080556	.122222	.163889	.205556	.247222	56	.000648
57	.039583	.081250	.122917	.164583	.206250	.247917	57	.000660
58	.040278	.081944	.123611	.165278	.206944	.248611	58	.000671
59	.040972	.082639	.124306	.165972	.207639	.249306	59	.000683



m	6 <sup>h</sup>		7 <sup>h</sup>		8 <sup>h</sup>		9 <sup>h</sup>		10 <sup>h</sup>		11 <sup>h</sup>		s	d
	d	d	d	d	d	d	d	d	d	d	d	d		
0	0.250000	0.291667	0.333333	0.375000	0.416667	0.458333	0.500000						0.000000	
1	.250694	.292361	.334028	.375694	.417361	.459028	.500694						.000012	
2	.251389	.293056	.334722	.376389	.418056	.459722	.501389						.000023	
3	.252083	.293750	.335417	.377083	.418750	.460417	.502083						.000035	
4	.252778	.294444	.336111	.377778	.419444	.461111	.502778						.000046	
5	0.253472	0.295139	0.336806	0.378472	0.420139	0.461806	0.503472						0.000058	
6	.254167	.295833	.337500	.379167	.420833	.462500	.504167						.000069	
7	.254861	.296528	.338194	.379861	.421528	.463194	.504861						.000081	
8	.255556	.297222	.338889	.380556	.422222	.463889	.505556						.000093	
9	.256250	.297917	.339583	.381250	.422917	.464583	.506250						.000104	
10	0.256944	0.298611	0.340278	0.381944	0.423611	0.465278	0.506944						0.000116	
11	.257639	.299306	.340972	.382639	.424306	.465972	.507639						.000127	
12	.258333	.300000	.341667	.383333	.425000	.466667	.508333						.000139	
13	.259028	.300694	.342361	.384028	.425694	.467361	.509028						.000150	
14	.259722	.301389	.343056	.384722	.426389	.468056	.509722						.000162	
15	0.260417	0.302083	0.343750	0.385417	0.427083	0.468750	0.510417						0.000174	
16	.261111	.302778	.344444	.386111	.427778	.469444	.511111						.000185	
17	.261806	.303472	.345139	.386806	.428472	.470139	.511806						.000197	
18	.262500	.304167	.345833	.387500	.429167	.470833	.512500						.000208	
19	.263194	.304861	.346528	.388194	.429861	.471528	.513194						.000220	
20	0.263889	0.305556	0.347222	0.388889	0.430556	0.472222	0.513889						0.000231	
21	.264583	.306250	.347917	.389583	.431250	.472917	.514583						.000243	
22	.265278	.306944	.348611	.390278	.431944	.473611	.515278						.000255	
23	.265972	.307639	.349306	.390972	.432639	.474306	.515972						.000266	
24	.266667	.308333	.350000	.391667	.433333	.475000	.516667						.000278	
25	0.267361	0.309028	0.350694	0.392361	0.434028	0.475694	0.517361						0.000289	
26	.268056	.309722	.351389	.393056	.434722	.476389	.518056						.000301	
27	.268750	.310417	.352083	.393750	.435417	.477083	.518750						.000313	
28	.269444	.311111	.352778	.394444	.436111	.477778	.519444						.000324	
29	.270139	.311806	.353472	.395139	.436806	.478472	.520139						.000336	
30	0.270833	0.312500	0.354167	0.395833	0.437500	0.479167	0.520833						0.000347	
31	.271528	.313194	.354861	.396528	.438194	.479861	.521528						.000359	
32	.272222	.313889	.355556	.397222	.438889	.480556	.522222						.000370	
33	.272917	.314583	.356250	.397917	.439583	.481250	.522917						.000382	
34	.273611	.315278	.356944	.398611	.440278	.481944	.523611						.000394	
35	0.274306	0.315972	0.357639	0.399306	0.440972	0.482639	0.524306						0.000405	
36	.275000	.316667	.358333	.400000	.441667	.483333	.525000						.000417	
37	.275694	.317361	.359028	.400694	.442361	.484028	.525694						.000428	
38	.276389	.318056	.359722	.401389	.443056	.484722	.526389						.000440	
39	.277083	.318750	.360417	.402083	.443750	.485417	.527083						.000451	
40	0.277778	0.319444	0.361111	0.402778	0.444444	0.486111	0.527778						0.000463	
41	.278472	.320139	.361806	.403472	.445139	.486806	.528472						.000475	
42	.279167	.320833	.362500	.404167	.445833	.487500	.529167						.000486	
43	.279861	.321528	.363194	.404861	.446528	.488194	.529861						.000498	
44	.280556	.322222	.363889	.405556	.447222	.488889	.530556						.000509	
45	0.281250	0.322917	0.364583	0.406250	0.447917	0.489583	0.531250						0.000521	
46	.281944	.323611	.365278	.406944	.448611	.490278	.531944						.000532	
47	.282639	.324306	.365972	.407639	.449306	.490972	.532639						.000544	
48	.283333	.325000	.366667	.408333	.450000	.491667	.533333						.000556	
49	.284028	.325694	.367361	.409028	.450694	.492361	.534028						.000567	
50	0.284722	0.326389	0.368056	0.409722	0.451389	0.493056	0.534722						0.000579	
51	.285417	.327083	.368750	.410417	.452083	.493750	.535417						.000590	
52	.286111	.327778	.369444	.411111	.452778	.494444	.536111						.000602	
53	.286806	.328472	.370139	.411806	.453472	.495139	.536806						.000613	
54	.287500	.329167	.370833	.412500	.454167	.495833	.537500						.000625	
55	0.288194	0.329861	0.371528	0.413194	0.454861	0.496528	0.538194						0.000637	
56	.288889	.330556	.372222	.413889	.455556	.497222	.538889						.000648	
57	.289583	.331250	.372917	.414583	.456250	.497917	.539583						.000660	
58	.290278	.331944	.373611	.415278	.456944	.498611	.540278						.000671	
59	.290972	.332639	.374306	.415972	.457639	.499306	.540972						.000683	



## zur Berechnung der optischen Mondlibration

$\lambda - \Omega$	$\Delta\lambda$	$a$	$B$	$\lambda - \Omega$	$\lambda - \Omega$	$\Delta\lambda$	$a$	$B$	$\lambda - \Omega$
0	+0.0+	-0.0269+	0 0.0+	180	45	+0.6+	-0.0190+	I 5.3+	225
1	0.0	268	0 1.6	181	46	0.6	187	I 6.4	226
2	0.0	268	0 3.2	182	47	0.6	183	I 7.5	227
3	0.1	268	0 4.8	183	48	0.6	180	I 8.6	228
4	0.1	268	0 6.4	184	49	0.6	176	I 9.7	229
5	+0.1+	-0.0268+	0 8.0+	185	50	+0.6+	-0.0173+	-I 10.7+	230
6	0.1	267	0 9.7	186	51	0.6	169	I 11.8	231
7	0.1	267	0 11.3	187	52	0.6	165	I 12.8	232
8	0.2	266	0 12.9	188	53	0.6	162	I 13.8	233
9	0.2	265	0 14.4	189	54	0.6	158	I 14.7	234
10	+0.2+	-0.0264+	0 16.0+	190	55	+0.6+	-0.0154+	-I 15.6+	235
11	0.2	264	0 17.6	191	56	0.6	150	I 16.6	236
12	0.2	263	0 19.2	192	57	0.6	146	I 17.4	237
13	0.3	262	0 20.8	193	58	0.6	142	I 18.3	238
14	0.3	261	0 22.3	194	59	0.5	138	I 19.2	239
15	+0.3+	-0.0259+	0 23.9+	195	60	+0.5+	-0.0134+	-I 20.0+	240
16	0.3	258	0 25.5	196	61	0.5	130	I 20.8	241
17	0.3	257	0 27.0	197	62	0.5	126	I 21.5	242
18	0.4	255	0 28.5	198	63	0.5	122	I 22.3	243
19	0.4	254	0 30.1	199	64	0.5	118	I 23.0	244
20	+0.4+	-0.0252+	0 31.6+	200	65	+0.5+	-0.0114+	-I 23.7+	245
21	0.4	251	0 33.1	201	66	0.5	109	I 24.4	246
22	0.4	249	0 34.6	202	67	0.4	105	I 25.0	247
23	0.4	247	0 36.1	203	68	0.4	101	I 25.6	248
24	0.5	245	0 37.6	204	69	0.4	096	I 26.2	249
25	+0.5+	-0.0243+	0 39.0+	205	70	+0.4+	-0.0092+	-I 26.8+	250
26	0.5	241	0 40.5	206	71	0.4	87	I 27.3	251
27	0.5	239	0 41.9	207	72	0.4	83	I 27.8	252
28	0.5	237	0 43.4	208	73	0.3	79	I 28.3	253
29	0.5	235	0 44.8	209	74	0.3	74	I 28.8	254
30	+0.5+	-0.0233+	0 46.2+	210	75	+0.3+	-0.0070+	-I 29.2+	255
31	0.5	230	0 47.6	211	76	0.3	65	I 29.6	256
32	0.6	228	0 48.9	212	77	0.3	60	I 30.0	257
33	0.6	225	0 50.3	213	78	0.2	56	I 30.3	258
34	0.6	223	0 51.6	214	79	0.2	51	I 30.6	259
35	+0.6+	-0.0220+	0 53.0+	215	80	+0.2+	-0.0047+	-I 30.9+	260
36	0.6	217	0 54.3	216	81	0.2	42	I 31.2	261
37	0.6	214	0 55.6	217	82	0.2	37	I 31.4	262
38	0.6	212	0 56.9	218	83	0.1	33	I 31.6	263
39	0.6	209	0 58.1	219	84	0.1	28	I 31.8	264
40	+0.6+	-0.0206+	0 59.4+	220	85	+0.1+	-0.0023+	-I 32.0+	265
41	0.6	203	I 0.6	221	86	0.1	19	I 32.1	266
42	0.6	200	I 1.8	222	87	0.1	14	I 32.2	267
43	0.6	196	I 3.0	223	88	0.0	09	I 32.3	268
44	0.6	193	I 4.1	224	89	0.0	05	I 32.3	269
45	+0.6+	-0.0190+	-I 5.3+	225	90	+0.0+	-0.0000+	-I 32.3+	270

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_{\Omega}; \quad b' = B - \beta$$

$l', b'$  = Optische Libration der Mondmitte in selenographischer Länge und Breite

$\lambda, \beta$  = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort

$L_{\Omega}$  = Mittlere Länge des Mondes,  $\Omega$  = Mondknoten (siehe Seite 58)

## zur Berechnung der optischen Mondlibration

$\lambda - \Omega$	$\Delta\lambda$	$a$	$B$	$\lambda - \Omega$	$\lambda - \Omega$	$\Delta\lambda$	$a$	$B$	$\lambda - \Omega$
90	0.0	0	32.3	270	135	0.6	190	5.3	315
91	0.0	5	32.3	271	136	0.6	193	4.1	316
92	0.0	9	32.3	272	137	0.6	196	3.0	317
93	0.1	14	32.2	273	138	0.6	200	1.8	318
94	0.1	19	32.1	274	139	0.6	203	0.6	319
95	0.1	23	32.0	275	140	0.6	206	59.4	320
96	0.1	28	31.8	276	141	0.6	209	58.1	321
97	0.1	33	31.6	277	142	0.6	212	56.9	322
98	0.2	37	31.4	278	143	0.6	214	55.6	323
99	0.2	42	31.2	279	144	0.6	217	54.3	324
100	0.2	47	30.9	280	145	0.6	220	53.0	325
101	0.2	51	30.6	281	146	0.6	223	51.6	326
102	0.2	56	30.3	282	147	0.6	225	50.3	327
103	0.3	60	30.0	283	148	0.6	228	48.9	328
104	0.3	65	29.6	284	149	0.5	230	47.6	329
105	0.3	70	29.2	285	150	0.5	233	46.2	330
106	0.3	74	28.8	286	151	0.5	235	44.8	331
107	0.3	79	28.3	287	152	0.5	237	43.4	332
108	0.4	83	27.8	288	153	0.5	239	41.9	333
109	0.4	87	27.3	289	154	0.5	241	40.5	334
110	0.4	92	26.8	290	155	0.5	243	39.0	335
111	0.4	96	26.2	291	156	0.5	245	37.6	336
112	0.4	101	25.6	292	157	0.4	247	36.1	337
113	0.4	105	25.0	293	158	0.4	249	34.6	338
114	0.5	109	24.4	294	159	0.4	251	33.1	339
115	0.5	114	23.7	295	160	0.4	252	31.6	340
116	0.5	118	23.0	296	161	0.4	254	30.1	341
117	0.5	122	22.3	297	162	0.4	255	28.5	342
118	0.5	126	21.5	298	163	0.3	257	27.0	343
119	0.5	130	20.8	299	164	0.3	258	25.5	344
120	0.5	134	20.0	300	165	0.3	259	23.9	345
121	0.5	138	19.2	301	166	0.3	261	22.3	346
122	0.6	142	18.3	302	167	0.3	262	20.8	347
123	0.6	146	17.4	303	168	0.2	263	19.2	348
124	0.6	150	16.5	304	169	0.2	264	17.6	349
125	0.6	154	15.6	305	170	0.2	264	16.0	350
126	0.6	158	14.7	306	171	0.2	265	14.4	351
127	0.6	162	13.8	307	172	0.2	266	12.9	352
128	0.6	165	12.8	308	173	0.1	267	11.3	353
129	0.6	169	11.8	309	174	0.1	267	9.7	354
130	0.6	173	10.7	310	175	0.1	268	8.0	355
131	0.6	176	9.7	311	176	0.1	268	6.4	356
132	0.6	180	8.6	312	177	0.1	268	4.8	357
133	0.6	183	7.5	313	178	0.0	268	3.2	358
134	0.6	187	6.4	314	179	0.0	268	1.6	359
135	0.6	190	5.3	315	180	0.0	269	0.0	360

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_{\alpha}; \quad b' = B - \beta$$

$l', b'$  = Optische Libration der Mondmitte in selenographischer Länge und Breite  
 $\lambda, \beta$  = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort  
 $L_{\alpha}$  = Mittlere Länge des Mondes,  $\Omega$  = Mondknoten (siehe Seite 58)

## zur Berechnung der geozentrischen Koordinaten

$$\rho \sin \varphi' = s \sin \varphi; \quad \rho \cos \varphi' = c \cos \varphi$$

$\varphi$	log s	log c	$\varphi$	log s	log c
$\pm 0^\circ$	9.9970705	0.0000000	$\pm 40^\circ$	9.9976745	0.0006040
1	.9970709	.0000004	41	.9976997	.0006292
2	.9970723	.0000018	42	.9977251	.0006546
3	.9970745	.0000040	43	.9977506	.0006801
4	.9970776	.0000071	44	.9977761	.0007056
5	9.9970816	0.0000111	45	9.9978016	0.0007311
6	.9970865	.0000160	46	.9978272	.0007567
7	.9970922	.0000217	47	.9978527	.0007822
8	.9970988	.0000283	48	.9978782	.0008077
9	.9971062	.0000357	49	.9979036	.0008331
10	9.9971145	0.0000440	50	9.9979288	0.0008583
11	.9971237	.0000532	51	.9979540	.0008835
12	.9971336	.0000631	52	.9979789	.0009084
13	.9971444	.0000739	53	.9980036	.0009331
14	.9971560	.0000855	54	.9980281	.0009576
15	9.9971683	0.0000978	55	9.9980523	0.0009818
16	.9971814	.0001109	56	.9980762	.0010057
17	.9971953	.0001248	57	.9980997	.0010292
18	.9972099	.0001394	58	.9981229	.0010524
19	.9972253	.0001548	59	.9981457	.0010752
20	9.9972413	0.0001708	60	9.9981681	0.0010976
21	.9972581	.0001876	61	.9981901	.0011196
22	.9972755	.0002050	62	.9982116	.0011411
23	.9972935	.0002230	63	.9982325	.0011620
24	.9973122	.0002417	64	.9982530	.0011825
25	9.9973314	0.0002609	65	9.9982729	0.0012024
26	.9973512	.0002807	66	.9982922	.0012217
27	.9973716	.0003011	67	.9983110	.0012405
28	.9973925	.0003220	68	.9983291	.0012586
29	.9974139	.0003434	69	.9983466	.0012761
30	9.9974358	0.0003653	70	9.9983634	0.0012929
31	.9974581	.0003876	71	.9983795	.0013090
32	.9974808	.0004103	72	.9983949	.0013244
33	.9975040	.0004335	73	.9984096	.0013391
34	.9975275	.0004570	74	.9984236	.0013531
35	9.9975513	0.0004808	75	9.9984368	0.0013663
36	.9975754	.0005049	76	.9984492	.0013787
37	.9975999	.0005294	77	.9984609	.0013904
38	.9976245	.0005540	78	.9984717	.0014012
39	.9976494	.0005789	79	.9984817	.0014112
40	9.9976745	0.0006040	80	9.9984909	0.0014204



Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. $\rho$ incl. Seehöhe
Abbadia . . . . .	69 <sup>m</sup>	+43° 22' 52.2	+0° 7' 0.1	+ 1.15	+43° 11' 17.8	9.999317
Åbo . . . . .	—	+60 26 56.8	-1 29 6.30	-14.64	+60 16 58.8	9.998894
Adelaide . . . . .	43	-34 55 37.1	-9 14 20.3	-91.06	-34 44 44.8	9.999526
Albany (N. Stw.) <sup>1)</sup>	40	+42 39 12.6	+4 55 6.36	+48.48	+42 27 39.5	9.999334
Alfred Centre N.Y.	556	+42 15 19.8	+5 11 7.13	+51.11	+42 3 47.6	9.999379
Algier (N. Stw.) <sup>2)</sup>	342	+36 47 50	-0 12 8.38	- 1.99	+36 36 43	9.999501
Allegheny (N. Stw.)	370	+40 28 58.1	+5 20 5.39	+52.59	+40 17 31.4	9.999411
Allegheny (A. Stw.)	349	+40 27 41.6	+5 20 2.97	+52.58	+40 16 15.0	9.999411
Altenburg <sup>3)</sup> . . .	229	+50 58 20	-0 49 44.16	- 8.17	+50 46 59	9.999135
Altona Mer.-Kreis <sup>4)</sup>	31	+53 32 45.3	-0 39 46.19	- 6.53	+53 21 39.7	9.999058
Amherst (Neue Stw.)	110	+42 21 56.5	+4 50 5.98	+47.66	+42 10 24.0	9.999346
Amherst (Alte Stw.)	122	+42 22 17.1	+4 50 4.72	+47.66	+42 10 44.6	9.999347
Annapolis . . . . .	—	+38 58 53.5	+5 5 56.53	+50.26	+38 47 33.6	9.999424
Ann Arbor . . . . .	285	+42 16 48.0	+5 34 55.23	+55.02	+42 5 15.7	9.999360
Arcetri Zentr. d. St. <sup>5)</sup>	186	+43 45 14.4	-0 45 1.30	- 7.39	+43 33 39.5	9.999316
Arequipa . . . . .	2451	-16 22 28.0	+4 46 11.73	+47.02	-16 16 12.7	0.000052
Armagh . . . . .	61	+54 21 12.7	+0 26 35.4	+ 4.37	+54 10 13.1	9.999041
Athen . . . . .	107	+37 58 19.7	-1 34 52.92	-15.58	+37 47 5.4	9.999456
Bamberg (Remeis' St.)	299	+49 53 6.0	-0 43 33.57	- 7.15	+49 41 40.0	9.999167
Barcelona <sup>6)</sup> . . . .	420	+41 24 2	-0 8 35.1	- 1.41	+41 12 32	9.999392
Beloit . . . . .	—	+42 30 9	+5 56 7.4	+58.51	+42 18 36	9.999335
Bergedorf Mer.-Kr.	35	+53 28 46.7	-0 40 57.74	- 6.73	+53 17 40.6	9.999060
Bergen . . . . .	—	+60 23 54	-0 21 12.73	- 3.48	+60 13 55	9.998895
Berkeley . . . . .	97	+37 52 23.6	+8 9 2.82	+80.34	+37 41 9.9	9.999458
Berlin-Babelsberg <sup>7)</sup>	80	+52 24 24.2	-0 52 25.49	- 8.61	+52 13 11.1	9.999089
Berlin (Urania) . . .	—	+52 31 30.7	-0 53 27.40	- 8.78	+52 20 18.3	9.999081
Bern . . . . .	573	+46 57 8.7	-0 29 45.55	- 4.89	+46 45 34.5	9.999261
Besançon . . . . .	312	+47 14 59.0	-0 23 57.1	- 3.93	+47 3 25.3	9.999236
Bethlehem <sup>8)</sup> . . . .	—	+40 36 23.5	+5 1 31.94	+49.54	+40 24 56.3	9.999383
Birr Castle <sup>9)</sup> . . . .	56	+53 5 47	+0 31 40.9	+ 5.20	+52 54 38	9.999070
Bogota . . . . .	2700	+ 4 35 48	+4 56 59	+48.79	+ 4 33 57	0.000175
Bologna Zentr. d. Stw.	84	+44 29 52.8	-0 45 24.48	- 7.46	+44 18 17.3	9.999290
Bombay (Colaba) . . .	19	+18 53 36.2	-4 51 15.70	-47.85	+18 46 31.1	9.999849
Bonn Zentr. d. Stw. . .	62	+50 43 45.0	-0 28 23.18	- 4.66	+50 32 22.7	9.999130
Bordeaux (Floirac)	73	+44 50 7.2	+0 2 5.50	+ 0.34	+44 38 31.6	9.999281
Boston (University)	—	+42 21 32.5	+4 44 15.0	+46.70	+42 10 0.0	9.999339

1) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37° 0 nördlich, 7° 10 östlich. — 2) Alte Sternwarte 3' 8 südlich, 8° östlich. — 3) Fr. Krüger. — 4) 1873 nach Kiel verlegt. — 5) Seit Oktober 1872, früher in Florenz. — 6) J. Comas Solá. — 7) Die Koordinaten beziehen sich auf die Mitte der großen Kuppel, in der der große Refraktor aufgestellt ist. Die frühere Sternwarte in Berlin (seit 1835) lag 5' 52" 5 nördlich und 1° 9' 31 östlich. — 8) Sayre Observatory, auch South-Bethlehem. — 9) Earl of Rosse.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. $\rho$ incl. Seehöhe
Bothkamp <sup>1)</sup> . . . . .	32 <sup>m</sup>	+54° 12' 9.6	— 0° 40' 31.2	— 6.65	+54° 1' 8.8	9.999042
Bremen (Olbers' Stw.) . .	—	+53 4 36	— 0 35 15	— 5.79	+52 53 27	9.999067
Breslau Zentr. d. Stw. . .	147	+51 6 56.5	— 1 8 8.72	— 11.19	+50 55 36.1	9.999126
Breteuil Zentr. <sup>2)</sup> . . . .	66	+48 49 48	— 0 8 52.9	— 1.46	+48 38 18	9.999178
Brisbane . . . . .	—	—27 28 0	—10 12 6.4	—100.55	—27 18 32	9.999691
Brüssel (Alte St.) Pass. Instr.	56	+50 51 10.7	— 0 17 28.71	— 2.87	+50 39 49.0	9.999126
Brüssel (Uccle) Mer.-Kreis	102	+50 47 55.5	— 0 17 26.06	— 2.86	+50 36 33.6	9.999131
Budapest <sup>3)</sup> . . . . .	110	+47 28 49	— 1 16 13.7	— 12.53	+47 17 16	9.999215
Bukarest (MH. Geogr. Inst.)	85	+44 24 34.2	— 1 44 27.01	— 17.16	+44 12 58.7	9.999292
Cambridge Engl. . . . .	28	+52 12 51.6	— 0 0 22.75	— 0.06	+52 1 37.3	9.999090
Cambridge Mass. <sup>4)</sup> . . .	24	+42 22 47.6	+ 4 44 31.02	+ 46.74	+42 11 15.1	9.999340
Cap d. gut. Hoffnung	16	—33 56 3.2	— 1 13 54.74	— 12.14	—33 45 19.6	9.999548
Catania . . . . .	60	+37 30 13.3	— 1 0 20.6	— 9.91	+37 19 1.9	9.999465
Chapultepec (Alte Stw.) <sup>5)</sup>	—	+19 25 17.5	+ 6 36 38.28	+ 65.16	+19 18 2.3	9.999840
Charkow . . . . .	138	+50. 0 10.2	— 2 24 54.6	— 23.81	+49 48 44.7	9.999153
Charlottenburg, <sup>Techn.</sup> <sup>Hochsch.</sup>	60	+52 30 48.7	— 0 53 20.5	— 8.76	+52 19 36.2	9.999085
Charlottesvill <sup>6)</sup> . . . . .	250	+38 2 1.2	+ 5 14 5.26	+ 51.60	+37 50 46.5	9.999464
Chicago (Alte Stw.) <sup>7)</sup> . .	—	+41 50 1.0	+ 5 50 26.82	+ 57.57	+41 38 29.8	9.999352
Christiania Mer.-Kreis . .	25	+59 54 43.7	— 0 42 53.51	— 7.04	+59 44 39.2	9.998908
Cincinnati (Alte Stw.) . .	—	+39 6 26.5	+ 5 37 59.09	+ 55.52	+38 55 6.0	9.999421
Cincinnati (Neue Stw.) <sup>8)</sup>	263	+39 8 19.8	+ 5 37 41.33	+ 55.47	+38 56 59.1	9.999438
Cleveland (Case Obs.) . .	212	+41 30 14.5	+ 5 26 25.86	+ 53.63	+41 18 44.3	9.999375
Clinton (Litchfield Obs.)	276	+43 3 16.5	+ 5 1 37.48	+ 49.55	+42 51 42.6	9.999340
Coimbra . . . . .	99	+40 12 24.5	+ 0 33 43.1	+ 5.54	+40 0 58.9	9.999400
Columbia Missouri <sup>9)</sup> . .	225	+38 56 51.7	+ 6 9 18.37	+ 60.67	+38 45 32.0	9.999440
Cordoba . . . . .	439	—31 25 15.5	+ 4 16 48.2	+ 42.19	—31 14 57.5	9.999635
Danzig . . . . .	3	+54 21 18.0	— 1 14 39.5	— 12.26	+54 10 18.4	9.999036
Denver <sup>10)</sup> . . . . .	1650	+39 40 36.4	+ 6 59 47.67	+ 68.96	+39 29 13.1	9.999519
Dorpat Mer.-Kreis . . . .	73	+58 22 47.1	— 1 46 53.23	— 17.56	+58 12 25.0	9.998946
Dresden (Neue Stw.) <sup>11)</sup> .	121	+51 2 16.8	— 0 54 54.74	— 9.02	+50 50 56.1	9.999126
Dresden (Mathem. Salon)	—	+51 3 14.7	— 0 54 55.83	— 9.02	+50 51 54.0	9.999117
Dublin (Dunsink Obs.) . .	86	+53 23 13.1	+ 0 25 21.1	+ 4.17	+53 12 6.4	9.999065
Düsseldorf (Birk) . . . . .	46	+51 12 25.0	— 0 27 26.69	— 4.44	+51 1 5.1	9.999117
Dunecht <sup>12)</sup> . . . . .	141	+57 9 36	+ 0 9 40	+ 1.59	+56 59 1	9.998979
Durham . . . . .	107	+54 46 6.2	+ 0 6 19.7	+ 1.04	+54 35 9.8	9.999033
Edinburg . . . . .	106	+55 57 23.2	+ 0 12 43.05	+ 2.09	+55 46 37.0	9.999005

<sup>1)</sup> Herr von Bülow. — <sup>2)</sup> Bureau international des Poids et Mesures. — <sup>3)</sup> Observ. der Kgl. Josef-Technischen Hochschule. — <sup>4)</sup> Harvard College Observatory. — <sup>5)</sup> 1883 nach Tacubaya verlegt. — <sup>6)</sup> Leander Mc. Cormick Obs. der University of Virginia. — <sup>7)</sup> 1887 geschlossen. — <sup>8)</sup> Mount Lookout, seit 1873. — <sup>9)</sup> Laws Observatory. — <sup>10)</sup> University Park, Chamberlin Observatory. — <sup>11)</sup> v. Engelhardt; Herbst 1897 aufgelöst. Alte Sternwarte 14".2 nördlich, 1".57 westlich. — <sup>12)</sup> Earl of Crawford.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. $\rho$ incl. Seehöhe	
Edinburg (Blackf. Hill) .	134	+55° 55'	28.0°	+0° 12'	+2.09	+55° 44' 41.5"	9.999007
Evanston (Dearborn Obs.)	175	+42° 3'	33.4°	+5° 50'	+57.61	+41° 52' 1.6"	9.999358
Flagstaff (Lowell Obs.)	2210	+35° 12'	30.5°	+7° 26'	+73.39	+35° 1' 35.8"	9.999667
Florenz (Alte Sternw.) <sup>1)</sup>	73	+43° 46'	4.1°	-0° 45'	-7.40	+43° 34' 29.2"	9.999308
Florenz (Mil. Geogr. Inst.)	—	+43° 46'	49.3°	-0° 45'	-7.40	+43° 35' 14.4"	9.999303
Frankfurt a. M. . . . .	121	+50° 7'	0°	-0° 34'	-5.70	+49° 55' 35"	9.999149
Genf Mer.-Kreis . . . . .	407	+46° 11'	59.1°	-0° 24'	-4.04	+46° 0' 23.9"	9.999269
Genua (Mar. Stw.) Mer.-Kr.	105	+44° 25'	9.3°	-0° 35'	-5.86	+44° 13' 33.8"	9.999293
Georgetown D. C. . . . .	46	+38° 54'	26.2°	+5° 8'	+50.65	+38° 43' 6.7"	9.999429
Glasgow Schottl. . . . .	55	+55° 52'	42.6°	+0° 17'	+2.82	+55° 41' 55.7"	9.999003
Glasgow Missouri . . . . .	228	+39° 13'	45.6°	+6° 11'	+61.00	+39° 2' 24.5"	9.999433
Göttingen Mer.-Kreis . . .	161	+51° 31'	48.2°	-0° 39'	-6.53	+51° 20' 30.0"	9.999117
Gohlis <sup>2)</sup> . . . . .	108	+51° 21'	35.0°	-0° 49'	-8.13	+51° 10' 15.9"	9.999117
Gotha (Neue Stw.) Zentr. d. St. <sup>3)</sup>	320	+50° 56'	37.5°	-0° 42'	-7.04	+50° 45' 16.3"	9.999142
Graz . . . . .	375	+47° 4'	37.2°	-1° 1'	-10.15	+46° 53' 3.2"	9.999244
Greenwich Transit Circle	47	+51° 28'	38.1°	0° 0'	0.00	+51° 17' 19.6"	9.999110
Grignon . . . . .	—	+47° 33'	42°	-0° 17'	-2.89	+47° 22' 9"	9.999206
Groningen . . . . .	4	+53° 13'	19.1°	-0° 26'	-4.31	+53° 2' 11.3"	9.999064
Hamburg (Alt. Stw.) M.-Kr. <sup>4)</sup>	25	+53° 33'	6.0°	-0° 39'	-6.55	+53° 22' 0.4"	9.999057
Hamburg (D. Seewarte) . . .	30	+53° 32'	51.8°	-0° 39'	-6.55	+53° 21' 46.2"	9.999058
Hanover N. H. . . . .	183	+43° 42'	15.2°	+4° 49'	+47.50	+43° 30' 40.4"	9.999317
Harrow (Col. Tupmann) . . .	66	+51° 34'	47.4°	+1° 19'	+0.39	+51° 23' 29.5"	9.999109
Hastings on Huds. <sup>5)</sup> . . . .	—	+40° 59'	25°	+4° 55'	+48.55	+40° 47' 56"	9.999373
Haverford . . . . .	—	+40° 0'	36.5°	+5° 1'	+49.48	+39° 49' 11.8"	9.999398
Heidelberg (Wolfs Stw.)	126	+49° 24'	35°	-0° 34'	-5.72	+49° 13' 7"	9.999159
Heidelberg (Königst.) M.-Kr.	570	+49° 23'	54.6°	-0° 34'	-5.73	+49° 12' 26.8"	9.999198
St. Helena . . . . .	210	-15° 55'	26°	+0° 22'	+3.76	-15° 49' 20"	9.999905
Helsingfors Mer.-Kreis . . .	38	+60° 9'	42.6°	-1° 39'	-16.40	+59° 59' 41.1"	9.998903
Helwan . . . . .	119	+29° 51'	33°	-2° 5'	-20.59	+29° 41' 33"	9.999648
Herény (von Gothard) . . . .	229	+47° 15'	47.4°	-1° 6'	-10.91	+47° 4' 13.7"	9.999229
Hongkong . . . . .	34	+22° 18'	13.2°	-7° 36'	-75.02	+22° 10' 5.8"	9.999793
Hudson . . . . .	—	+41° 14'	42.6°	+5° 25'	+53.51	+41° 3' 13.2"	9.999367
Ipswich (Orwell Park) <sup>6)</sup> . . .	—	+52° 0'	33°	-0° 4'	-0.81	+51° 49' 17"	9.999094
Jena (Univ.) Zentr. d. St. . . .	156	+50° 55'	35.6°	-0° 46'	-7.61	+50° 44' 14.3"	9.999131
Jena (Winkler) . . . . .	174	+50° 56'	15.7°	-0° 46'	-7.61	+50° 44' 54.5"	9.999132
Johannesburg . . . . .	1806	-26° 10'	55.3°	-1° 52'	-18.45	-26° 1' 45.2"	9.999840

<sup>1)</sup> 1872 nach Arcturi verlegt. — <sup>2)</sup> Winkler, August 1887 nach Jena verlegt. — <sup>3)</sup> Seit 1857, früher Seeberg. — <sup>4)</sup> 1909 nach Bergedorf verlegt. — <sup>5)</sup> Dr. Draper. — <sup>6)</sup> Col. Tomline.



Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. $\rho$ incl. Seehöhe
Kairo . . . . .	—	+30° 4' 38.2"	—2° 5' 8.80"	—20.56	+29° 54' 35.8"	9.999635
Kalocsa <sup>1)</sup> . . . . .	110	+46° 31' 42"	—1° 15' 54.2"	—12.47	+46° 20' 7"	9.999240
Karlsruhe <sup>2)</sup> . . . . .	110	+49° 0' 29.6"	—0° 33' 35.40"	—5.52	+48° 49' 0.4"	9.999177
Kasan (Univers.) . . . . .	79	+55° 47' 24.3"	—3° 16' 28.93"	—32.28	+55° 36' 36.6"	9.999007
Kasan (Engelhardt) . . . . .	98	+55° 50' 20.0"	—3° 15' 16.4"	—32.08	+55° 39' 32.7"	9.999007
Kew . . . . .	10	+51° 28' 6"	+0° 1' 15.1"	+0.21	+51° 16' 47"	9.999108
Kiel Neuer Mer.-Kreis . . . . .	52	+54° 20' 27.6"	—0° 40' 35.45"	—6.67	+54° 9' 27.9"	9.999040
Kiel Alter Mer.-Kreis . . . . .	47	+54° 20' 28.5"	—0° 40' 35.57"	—6.67	+54° 9' 28.8"	9.999040
Kiew Mer.-Kreis . . . . .	179	+50° 27' 12.5"	—2° 2' 0.57"	—20.04	+50° 15' 49.0"	9.999145
Kis Kartal <sup>3)</sup> . . . . .	—	+47° 41' 54.8"	—1° 18' 11.6"	—12.84	+47° 30' 22.0"	9.999202
Königsberg Repts. M.-Kr. <sup>4)</sup>	22	+54° 42' 50.6"	—1° 21' 58.98"	—13.47	+54° 31' 53.8"	9.999029
Konstanz <sup>5)</sup> . . . . .	420	+47° 39' 43.6"	—0° 36' 42.01"	—6.03	+47° 28' 10.7"	9.999232
Kopenhagen (Neue Stw.) <sup>6)</sup>	14	+55° 41' 12.6"	—0° 50' 18.69"	—8.26	+55° 30' 24.0"	9.999005
Kopenhagen (Urania St.)	10	+55° 41' 19.2"	—0° 50' 9.11"	—8.24	+55° 30' 30.6"	9.999005
Krakau Mer.-Kreis . . . . .	221	+50° 3' 51.9"	—1° 19' 50.28"	—13.11	+49° 52' 26.7"	9.999158
Kremsmünster Mer.-Kr.	384	+48° 3' 23.1"	—0° 56' 31.58"	—9.28	+47° 51' 51.1"	9.999219
Landstuhl (Fauth) . . . . .	385	+49° 24' 42.5"	—0° 30' 16.35"	—4.97	+49° 13' 14.7"	9.999185
La Plata . . . . .	12	—34° 54' 30"	+3° 51' 37.1"	+38.05	—34° 43' 38"	9.999524
Leiden (Neue Stw.) Mer.-Kr. <sup>7)</sup>	6	+52° 9' 20.2"	—0° 17' 56.15"	—2.94	+51° 58' 5.6"	9.999090
Leipzig (Neue Stw.) Zentr. <sup>8)</sup>	119	+51° 20' 5.9"	—0° 49' 33.93"	—8.14	+51° 8' 46.7"	9.999119
Lemberg . . . . .	338	+49° 50' 11"	—1° 36' 4"	—15.78	+49° 38' 45"	9.999171
Leyton <sup>9)</sup> . . . . .	—	+51° 34' 34.0"	+0° 0' 0.9"	0.00	+51° 23' 16.1"	9.999105
Lissabon (Tupada) . . . . .	94	+38° 42' 30.5"	+0° 36' 44.78"	+6.04	+38° 31' 12.0"	9.999437
Lissabon (Mar. Stw.) . . . . .	—	+38° 42' 17.6"	+0° 36' 33.6"	+6.01	+38° 30' 59.2"	9.999431
Liverpool (Neue Stw.) <sup>10)</sup>	61	+53° 24' 3.8"	+0° 12' 17.2"	+2.02	+53° 12' 57.2"	9.999063
London <sup>11)</sup> . . . . .	—	+51° 31' 30"	+0° 0' 37.1"	+0.10	+51° 20' 12"	9.999106
Lourenço Marques . . . . .	59	—25° 58' 4.9"	—2° 10' 22.63"	—21.42	—25° 48' 58.3"	9.999725
Lübeck (Navig.-Sch.) . . . . .	19	+53° 51' 31.1"	—0° 42' 45.6"	—7.02	+53° 40' 27.8"	9.999049
Lund Zentr. d. Stw. . . . .	34	+55° 41' 52.0"	—0° 52' 44.97"	—8.66	+55° 31' 3.5"	9.999006
Lussinpiccolo <sup>12)</sup> . . . . .	42	+44° 32' 11"	—0° 57' 52.3"	—9.50	+44° 20' 35"	9.999286
Lüttich Ougrée . . . . .	128	+50° 37' 6"	—0° 22' 12"	—3.65	+50° 25' 43"	9.999137
Lyon . . . . .	209	+45° 41' 40.8"	—0° 19' 8.0"	—3.14	+45° 30' 5.3"	9.999274
Madison (Washburn Obs.)	293	+43° 4' 36.7"	+5° 57' 37.90"	+58.75	+42° 53' 2.8"	9.999340
Madras . . . . .	7	+13° 4' 8.1"	—5° 20' 59.33"	—52.73	+12° 59' 2.6"	9.999926
Madrid Zentr. d. Stw. . . . .	655	+40° 24' 29.7"	+0° 14' 45.09"	+2.43	+40° 13' 3.3"	9.999433
Mailand Gr. Turm . . . . .	120	+45° 27' 59.4"	—0° 36' 45.89"	—6.04	+45° 16' 23.8"	9.999268

1) Erzbischöfl. Haynaldsche Sternwarte. — 2) 1896 nach Heidelberg verlegt. — 3) Baron von Podmaniczky. — 4) Nach 1898, vor 1898 0°.01 westlich. — 5) Privatsternwarte von E. Leiner. — 6) Seit 1861 Nov. 11. Alte Sternwarte 20°.3 südlich, 0°.03 westlich. — 7) Seit 1860. Alte Sternwarte 8°.0 nördlich, 0°.42 östlich. — 8) Seit 1861. Alte Sternwarte 14°.2 nördlich, 4°.00 westlich. — 9) J. Gurney Barclay. — 10) Alte Sternwarte 44°.0 nördlich, 17°.1 östlich. — 11) Regents Park, G. Bishop 1836—61. — 12) Manora-Sternwarte.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. $\rho$ incl. Seehöhe
Manila . . . . .	3 <sup>m</sup>	+14° 35' 25"	-8 <sup>h</sup> 3 <sup>m</sup> 50 <sup>s</sup>	-79.48	+14° 29' 47"	9.999908
Mannheim Zentr. d. Stw.	98	+49 29 11.0	-0 33 50.42	- 5.56	+49 17 43.5	9.999164
Marburg . . . . .	248	+50 48 46.9	-0 35 4.9	- 5.76	+50 37 25.0	9.999141
Mare Island Calif. .	18	+38 5 55.8	+8 9 5.59	+80.35	+37 54 40.8	9.999447
Markree (Col. Cooper) .	45	+54 10 31.7	+0 33 48.4	+ 5.56	+53 59 30.7	9.999043
Marseille (N. St.) M.-Kr. <sup>1)</sup>	75	+43 18 19.1	-0 21 34.56	- 3.54	+43 6 44.8	9.999320
Melbourne . . . . .	28	-37 49 53.1	-9 39 54.17	-95.26	-37 38 39.6	9.999454
Meudon . . . . .	162	+48 48 18	-0 8 55.5	- 1.46	+48 36 48	9.999185
Mexico . . . . .	2277	+19 26 1.3	+6 36 26.71	+65.13	+19 18 45.9	9.999995
Middletown Conn. .	—	+41 33 16.0	+4 50 37.2	+47.74	+41 21 45.7	9.999359
Modena . . . . .	63	+44 38 52.8	-0 43 42.8	- 7.18	+44 27 17.2	9.999285
Moncalieri . . . . .	—	+44 59 51	-0 30 49	- 5.06	+44 48 15	9.999272
Montreal . . . . .	20	+45 30 17.0	+4 54 18.65	+48.35	+45 18 41.4	9.999260
Mt. Hamilton (Lick) Mkr.	1283	+37 20 25.6	+8 6 34.85	+79.94	+37 9 15.2	9.999552
Mt. Wilson Calif. . .	1731	+34 12 59.5	+7 52 14.33	+77.47	+34 2 13.3	9.999658
Moskau Mer.-Kr. . . .	142	+55 45 19.5	-2 30 17.03	-24.69	+55 34 31.5	9.999012
Mundenheim <sup>2)</sup> . . . .	—	+49 27 30	-0 33 44	- 5.54	+49 16 2	9.999158
München West-Kuppel	529	+48 8 45.5	-0 46 26.02	- 7.63	+47 57 13.8	9.999227
Nashville (Vanderbilt Obs.)	—	+36 8 58.2	+5 47 12.81	+57.04	+35 57 56.1	9.999494
Natal . . . . .	79	-29 50 46.6	-2 4 1.18	-20.37	-29 40 47.0	9.999645
Neapel (Capo di M.) . .	164	+40 51 45.4	-0 57 1.6	- 9.37	+40 40 17.3	9.999388
Neuchâtel . . . . .	488	+46 59 50.6	-0 27 49.75	- 4.57	+46 48 16.5	9.999254
New Haven (Neue Stw.) <sup>3)</sup>	40	+41 19 22.3	+4 51 40.53	+47.92	+41 7 52.7	9.999368
New York (Rutherford)	—	+40 43 48.5	+4 55 56.66	+48.62	+40 32 20.9	9.999380
New York (Columb. C.)	—	+40 45 23.1	+4 55 53.73	+48.61	+40 33 55.4	9.999379
Nikolajew . . . . .	55	+46 58 22.1	-2 7 53.76	-21.01	+46 46 47.9	9.999225
Nizza Kl. Mer.-Kr. <sup>4)</sup> . .	378	+43 43 16.9	-0 29 12.15	- 4.79	+43 31 42.0	9.999330
Northfield (Goodsell Obs.)	286	+44 27 41.6	+6 12 36.0	+61.21	+44 16 6.1	9.999305
Oakland Californ. <sup>5)</sup> .	11	+37 48 5	+8 9 6.3	+80.35	+37 36 52	9.999454
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46 28 36.2	-2 3 2.05	-20.21	+46 17 1.3	9.999237
Odessa (Filiale Pulkowa)	—	+46 28 36.0	-2 3 2.19	-20.21	+46 17 1.1	9.999234
Ogden Utah . . . . .	—	+41 13 8.6	+7 27 59.65	+73.60	+41 1 39.3	9.999368
O-Gyalla Astroph. Obs. <sup>6)</sup>	113	+47 52 27.3	-1 12 45.49	-11.95	+47 40 54.9	9.999206
Olmütz <sup>7)</sup> . . . . .	—	+49 35 43	-1 9 8	-11.35	+49 24 16	9.999154
Ottawa . . . . .	84	+45 23 37.3	+5 2 51.93	+49.75	+45 12 1.7	9.999267
Oxford (Radel. Obs.) . .	65	+51 45 35.4	+0 5 2.6	+ 0.83	+51 34 18.5	9.999104

1) Seit 1866. Alte Sternwarte 30°.1 südlich, 6°.2 westlich; 29<sup>m</sup>. — 2) Dr. Max Münder. —

3) Yale University. Alte Sternwarte 45°.8 südlich, 1°.58 westlich. — 4) Herr R. Bischofsheim. —

5) Chabot Observatory. — 6) Stiftung von Konkoly. — 7) Herr von Unkrechtsberg.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. $\rho$ incl. Seehöhe
Oxford (Univers.) . . . .	64 <sup>m</sup>	+51° 45' 34.2"	+ 0° 5' 0.4"	+ 0.82	+51° 34' 17.3"	9.999104
Oxford Mississippi . . .	—	+34 22 12.6	+ 5 58 7.1	+58.83	+34 11 25.1	9.999536
Padua Mauer-Quadr. . . .	31	+45 24 1.0	— 0 47 29.15	— 7.80	+45 12 25.4	9.999263
Palermo . . . . .	76	+38 6 44.0	— 0 53 25.80	— 8.78	+37 55 28.9	9.999451
Paramatta . . . . .	—	—33 48 49.8	—10 4 0.2	—99.22	—33 38 7.3	9.999550
Paris (Obs. nat.) Mer. Cassini	59	+48 50 11.2	— 0 9 20.94	— 1.53	+48 38 41.5	9.999177
Paris (Montsouris) westl. Mer.	—	+48 49 18.0	— 0 9 20.70	— 1.53	+48 37 48.2	9.999174
Parma (Univ.-Stw.) Turm.	—	+44 48 4.7	— 0 41 18.79	— 6.39	+44 36 29.1	9.999277
Perth West.-Austr. . . .	60	—31 57 9.6	— 7 43 21.74	—76.12	—31 46 45.8	9.999597
Petersburg (Akademie)	20	+59 56 29.7	— 2 1 13.35	—19.91	+59 46 25.5	9.998907
Petersburg (Univers.) . .	4	+59 56 32.0	— 2 1 11.3	—19.91	+59 46 27.8	9.998906
Philadelphia (Alte Stw.)	—	+39 57 7.5	+ 5 0 38.49	+49.39	+39 45 43.0	9.999400
Philadelphia <sup>1)</sup> . . . . .	74	+39 58 2.1	+ 5 1 6.6	+49.47	+39 46 37.5	9.999404
Plonsk <sup>2)</sup> . . . . .	—	+52 37 40.0	— 1 21 31.9	—13.39	+52 26 28.2	9.999078
Pola . . . . .	32	+44 51 48.6	— 0 55 22.96	— 9.10	+44 40 12.9	9.999277
Porto Alegre <sup>3)</sup> Mer.-Kr.	—	—30 1 51	+ 3 24 53.2	+33.66	—29 51 49	9.999636
Portsmouth . . . . .	—	+50 48 3	+ 0 4 24.8	+ 0.73	+50 36 41	9.999124
Potsdam (Astrophys. Obs.)	97	+52 22 56.0	— 0 52 15.86	— 8.58	+52 11 42.7	9.999091
Potsdam (Geod.Inst.) Turm	97	+52 22 54.8	— 0 52 16.12	— 8.58	+52 11 41.5	9.999091
Poughkeepsie <sup>4)</sup> . . . .	46	+41 41 18	+ 4 55 33.6	+48.56	+41 29 47	9.999359
Prag (Univ.-Stw.) Turm . .	197	+50 5 16.0	— 0 57 40.29	— 9.47	+49 53 50.9	9.999155
Prag (Safarik) . . . . .	—	+50 4 24	— 0 57 48	— 9.49	+49 52 59	9.999142
Princeton N. J. (N. Stw.) <sup>5)</sup>	76	+40 20 55.8	+ 4 58 39.53	+49.06	+40 9 29.7	9.999395
Providence <sup>6)</sup> . . . . .	64	+41 49 46.4	+ 4 45 37.62	+46.92	+41 38 15.2	9.999356
Pulkowa Zentr. d. Stw.	75	+59 46 18.7	— 2 1 18.58	—19.93	+59 36 12.5	9.998914
Quebec Canada . . . . .	94	+46 48 17.3	+ 4 44 49.4	+46.79	+46 36 42.9	9.999232
Quito . . . . .	2846	— 0 14 0	+ 5 15 20	+51.80	— 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	— 1 36 28.11	—15.84	+56 46 30	9.998974
Rio de Janeiro . . . . .	63	—22 54 23.7	+ 2 52 41.52	+28.37	—22 46 6.0	9.999784
Rochester (Lewis Swift)	172	+43 9 16.8	+ 5 10 21.87	+50.98	+42 57 42.7	9.999330
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	— 0 49 55.36	— 8.19	+41 42 22.3	9.999354
Rom (Capitol) Mer.-Kr.	63	+41 53 33.5	— 0 49 56.34	— 8.20	+41 42 2.2	9.999355
Rom (Vatican) Mor.-Kr.	100	+41 54 16.8	— 0 49 49.28	— 8.18	+41 42 45.5	9.999357
Rousdon . . . . .	157	+50 42 38	+ 0 11 58.9	+ 1.96	+50 31 16	9.999137
Rugby . . . . .	117	+52 22 7	+ 0 5 2.0	+ 0.83	+52 10 54	9.999093
St. Louis Missouri . . . .	—	+38 38 3.6	+ 6 0 49.15	+59.28	+38 26 45.5	9.999433

<sup>1)</sup> Flower Obs. (Univ. of Pennsylvania). — <sup>2)</sup> Dr. Jędrzejewicz; 1898 nach Warschau verlegt.

— <sup>3)</sup> Observatorio Regional do Rio Grande do Sul. — <sup>4)</sup> Vassar College. — <sup>5)</sup> Alte Sternwarte 2° 0' nördlich, 1° 94' östlich; 65<sup>m</sup>. — <sup>6)</sup> Seagrave; Ladd Observatory 35' nördlich, 1° 57' östlich.



Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. $\rho$ incl. Seehöhe
San Fernando . . . . .	31 <sup>m</sup>	+36° 27' 40.4"	+ 0 24 49.37	+ 4.08	+36° 16' 36.1"	9.999488
San Francisco <sup>1)</sup> . . . . .	—	+37 47 28.0	+ 8 9 42.81	+80.45	+37 36 14.8	9.999453
Santiago de Chile (N.St.)	519	-33 26 42.0	+ 4 42 46.4	+46.44	-33 16 3.0	9.999594
Santiago de Chile (A.St.)	619	-33 26 25.4	+ 4 42 36.9	+46.42	-33 15 46.4	9.999600
Scarborough . . . . .	—	+54 16 30	+ 0 1 38.9	+ 0.27	+54 5 30	9.999038
Schwerin . . . . .	—	+53 37 37.9	- 0 45 40.80	- 7.50	+53 26 32.9	9.999054
Seeberg <sup>2)</sup> . . . . .	356	+50 56 5.2	- 0 42 55.10	- 7.05	+50 44 44.0	9.999145
Sétif . . . . .	1113	+36 11 19	- 0 21 38.3	- 3.55	+36 0 17	9.999569
Sonneberg (Hoffmeister)	405	+50 21 29.5	- 0 44 42.87	- 7.34	+50 10 5.5	9.999163
South Hadley . . . . .	76	+42 15 18.2	+ 4 50 20.38	+47.70	+42 3 45.9	9.999346
Speyer . . . . .	—	+49 18 55.2	- 0 33 45.51	- 5.54	+49 7 27.1	9.999161
Stockholm Mer.-Kreis . . . . .	44	+59 20 32.7	- 1 12 13.97	-11.86	+59 10 21.4	9.998922
Stonyhurst . . . . .	116	+53 50 40.0	+ 0 9 52.7	+ 1.62	+53 39 36.5	9.999056
Straßburg (Prov. Stw.) . . . . .	161	+48 34 54.0	- 0 31 2.37	- 5.10	+48 23 23.5	9.999191
Straßburg (N.St.) M.-Kr. <sup>3)</sup>	144	+48 35 0.4	- 0 31 4.53	- 5.10	+48 23 29.9	9.999190
Sydney . . . . .	44	-33 51 41.1	-10 4 49.60	-99.35	-33 40 58.2	9.999551
Tacubaya <sup>4)</sup> . . . . .	2322	+19 24 17.5	+ 6 36 46.53	+65.18	+19 17 2.6	9.999998
Taschkent . . . . .	457	+41 19 31.3	- 4 37 10.69	-45.53	+41 8 1.7	9.999396
Taunton Mass. (Metcalf) . . . . .	8	+41 54	+ 4 44 20	+46.71	+41 42	9.999351
Teramo (Cerulli) . . . . .	398	+42 39 27	- 0 54 56	- 9.02	+42 27 54	9.999358
Tokio . . . . .	—	+35 39 17.5	- 9 18 58.73	-91.82	+35 28 19.2	9.999506
Toronto . . . . .	108	+43 39 35.9	+ 5 17 34.69	+52.17	+43 28 1.1	9.999313
Tortosa (Ibro-Stw.) M.-Kr.	—	+40 49 14	- 0 1 58.5	- 0.32	+40 37 46	9.999378
Toulouse . . . . .	194	+43 36 45.3	- 0 5 51.0	- 0.96	+43 25 10.6	9.999320
Triest . . . . .	23	+45 38 45.4	- 0 55 2.90	- 9.04	+45 27 9.9	9.999256
Troy N. Y. . . . .	—	+42 43 52.9	+ 4 54 44.6	+48.42	+42 32 19.6	9.999329
Tsingtau (Met.-astr. Stat.)	—	+36 4 11.3	- 8 1 16.21	-79.06	+35 53 9.8	9.999496
Tulse Hill (W. Huggins) . . . . .	53	+51 26 47.0	+ 0 0 27.7	+ 0.08	+51 15 28.4	9.999111
Turin Mer.-Kr. . . . .	276	+45 4 7.9	- 0 30 47.15	- 5.06	+44 52 32.2	9.999288
Twickenham (G. Bishop) . . . . .	—	+51 27 4.2	+ 0 1 13.1	+ 0.20	+51 15 45.6	9.999108
Upsala (N.Stw.) Pass.-Instr.	21	+59 51 29.4	- 1 10 30.13	-11.58	+59 41 24.2	9.998909
Urbana Ill. . . . .	236	+40 6 20.2	+ 5 52 53.97	+57.97	+39 54 55.1	9.999412
Utrecht . . . . .	12	+52 5 9.5	- 0 20 31.6	- 3.37	+51 53 54.4	9.999093
Valkenburg (Iguatius Coll.)	—	+50 52 29.3	- 0 23 19.91	- 3.83	+50 41 7.8	9.999122
Venedig . . . . .	15	+45 26 10.5	- 0 49 22.12	- 8.11	+45 14 34.9	9.999261
Warschau <sup>5)</sup> Zentr. d. Stw.	110	+52 13 4.6	- 1 24 7.25	-13.82	+52 1 50.3	9.999096

<sup>1)</sup> Davidson Observatory. — <sup>2)</sup> Alte Sternwarte, 1857 nach Gotha verlegt. — <sup>3)</sup> Seit Anfang 1881. —

<sup>4)</sup> Seit März 1883, früher in Chapultepec. — <sup>5)</sup> Universitäts-Sternwarte.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
Warschau <sup>1)</sup> . . . . .	—	+52° 13' 10"	— 1 <sup>h</sup> 24 <sup>m</sup> 5 <sup>s</sup>	— 13.81	+52° 1' 56"	9.999088
Washington (Alte Stw.) .	31	+38 53 38.9	+ 5 8 12.13	+ 50.63	+38 42 19.4	9.999428
Washington (Neue Stw.) .	82	+38 55 14.0	+ 5 8 15.80	+ 50.64	+38 43 54.4	9.999431
Washington (Kath. Univ.) .	—	+38 56 14.8	+ 5 8 0.0	+ 50.60	+38 44 55.1	9.999425
Wellington Transit Instr. <sup>2)</sup>	127	—41 17 3.8	—11 39 4.27	—114.84	—41 5 34.3	9.999375
Wellington (Mt. Cook Obs.) <sup>3)</sup>	44	—41 16 47.1	—11 39 5.31	—114.84	—41 5 17.6	9.999369
West Point N.Y. (N. Stw.) <sup>4)</sup>	170	+41 23 22.1	+ 4 55 50.6	+ 48.60	+41 11 52.3	9.999375
Whitestone (Field Obs.) .	—	+40 47 21.6	+ 4 55 7.7	+ 48.48	+40 35 53.8	9.999379
Wien (Alte Sternw.) . . . .	167	+48 12 35.5	— 1 5 31.61	— 10.76	+48 1 3.9	9.999201
Wien (Josephstadt) <sup>5)</sup> . . .	214	+48 12 53.8	— 1 5 25.17	— 10.74	+48 1 22.2	9.999204
Wien (Neue Sternw.) Zentr. .	240	+48 13 55.4	— 1 5 21.36	— 10.73	+48 2 23.9	9.999205
Wien (Ottakring) <sup>6)</sup> . . . .	285	+48 12 46.7	— 1 5 10.97	— 10.71	+48 1 15.1	9.999209
Wien (Mil. Geogr. Inst.) . .	—	+48 12 40.0	— 1 5 26.25	— 10.75	+48 1 8.4	9.999189
Wien (Techn. Hochschule) .	—	+48 11 58.5	— 1 5 29.71	— 10.76	+48 0 26.9	9.999190
Wilhelmshaven Mer.-Kr.	9	+53 31 52.1	— 0 32 35.06	— 5.35	+53 20 46.4	9.999057
Williams-Bay Wisc. <sup>7)</sup> . . .	335	+42 34 12.6	+ 5 54 13.28	+ 58.19	+42 22 39.6	9.999356
Williamstown Mass. . . . .	213	+42 42 49	+ 4 52 53.5	+ 48.12	+42 31 16	9.999344
Williamstown Vict. . . . .	—	—37 52 7.2	— 9 39 38.1	— 95.22	—37 40 53.5	9.999451
Wilna Pass.-Instr. . . . .	122	+54 40 59.1	— 1 41 8.76	— 16.61	+54 30 2.1	9.999036
Windsor N. S. W. <sup>8)</sup> . . . .	16	—33 36 30.8	—10 3 20.77	— 99.11	—33 25 50.2	9.999556
Zô-sè China . . . . .	100	+31 5 48	— 8 4 44.80	— 79.63	+30 55 34	9.999619
Zürich Meridian-Kreis . . .	468	+47 22 38.3	— 0 34 12.3	— 5.62	+47 11 4.8	9.999242

<sup>1)</sup> Dr. Jedrzejewicz; seit 1898, früher in Plonsk. — <sup>2)</sup> Hector Observatory. — <sup>3)</sup> 1884 abgebrochen. — <sup>4)</sup> Seit 1883. Alte Sternwarte 9" nördlich, 1".2 östlich. — <sup>5)</sup> von Oppolzers Sternwarte. — <sup>6)</sup> v. Kuffner. — <sup>7)</sup> Yerkes Observatory. — <sup>8)</sup> J. Tebbutt. Neue Sternwarte, 0".4 südlich von der alten.

## Normalzeiten der wichtigeren Länder

### a) An den Meridian von Greenwich angeschlossen

Normalzeit	Bezeichnung	Staaten
11 <sup>h</sup> 30 <sup>m</sup> 0.	—	Neu Seeland
10 0	Ostaustralische Z.	Victoria, Neu Süd-Wales, Queensland, Tasmanien
9 30	—	Süd-Australien
9 0	—	Japan, Korea
8 0	Ostchinesische Küsten-Z.	Ostküste von China, West-Australien
7 0	Südchinesische Küsten-Z.	Südküste von China, Franz. Indochina
5 30	—	Ostindien
2 30	—	Deutsch Ostafrika
2 0	Osteuropäische Z.	Bulgarien, Rumänien, Türkei, Ägypten, Süd-Afrika
1 0	Mittelenropäische Z. (M. E. Z.)	Dänemark, Deutschland, Italien, Luxemburg, Norwegen, Österreich, Ungarn, Schweden, Schweiz, Jugoslawien, Deutsch Südwest-Afrika
0 0	Westeuropäische Z. (Greenwich Z.)	Belgien, Frankreich, Großbritannien und Irland, Portugal, Spanien, Gibraltar, Algerien
3 0 W.	—	Ost-Brasilien
4 0	Atlantic St. Time	Mittel-Brasilien, Canada (Küste)
5 0	Eastern St. Time	Canada (Quebec, Ontario bis 82° 30' westl.), Vereinigte Staaten (Ost-Zone), Chile, Panama, Peru, West-Brasilien
6 0	Central St. Time	Zentral-Zone von Canada und Vereinigte Staaten
7 0	Mountain St. Time	Gebirgszone von Canada und Vereinigte Staaten
8 0	Pacific St. Time	Vereinigte Staaten (Pacifische Küste), Britisch Kolumbien
10 30	—	Sandwich Inseln

### b) Nicht an den Meridian von Greenwich angeschlossen

Staaten	Meridian	Längendifferenz gegen Greenwich	Staaten	Meridian	Längendifferenz gegen Greenwich
Argentinien	Cordoba	4 <sup>h</sup> 16 <sup>m</sup> 48.2 <sup>s</sup> W.	Niederlande	Amsterdam	0 <sup>h</sup> 19 <sup>m</sup> 32.1 <sup>s</sup> O.
Columbien	Bogota	4 56 54.2 W.	Rußland	Pulkowa	2 1 18.6 O.
Ecuador	Quito	5 14 6.7 W.	Uruguay	Montevideo	3 44 48.9 W.
Griechenland	Athen	1 34 52.9 O.	Venezuela	Caracas	4 27 43.6 W.
Mexico	Mexico	6 36 26.7 W.			



## Besondere Erläuterungen zu den Angaben und zum Gebrauch des Jahrbuchs.

Das Jahrbuch gibt die Örter der *Wandelsterne* in geozentrischen und in heliozentrischen Koordinaten. Die Zeitpunkte, für die sie gelten, sind, wenn nicht ausdrücklich eine andere Zeit angegeben wird, in Mittlerer Zeit Greenwich ausgedrückt.

Die Örter der *Fixsterne* sind einmal als wahre, auf das mittlere Äquinoktium des Jahresanfangs bezogen, und dann in Ephemeridenform als scheinbare, auf das instantane wahre Äquinoktium bezogen, gegeben.

Zur Erläuterung ist im einzelnen folgendes zu bemerken:

### Sonnenephemeride (S. 2—38).

Der erste Teil der Sonnenephemeride (S. 2—19) gibt auf den linken Seiten für jeden mittleren Greenwicher Mittag:

- 1) Die Zeitgleichung = Mittlere Zeit *minus* Wahre Zeit.
- 2) Die geozentrischen, äquatorialen Koordinaten  $\alpha$ ,  $\delta$  des scheinbaren Sonnenorts, bezogen auf das jedesmalige wahre Äquinoktium, zugleich mit der ersten Differenzreihe. Diese Angaben sind direkt mit den Beobachtungen vergleichbar. Die Nutationsglieder kurzer Periode sind, wie im Vorwort erwähnt, in den Koordinaten nicht enthalten.
- 3) Die halbe Durchgangsdauer der Sonnenscheibe durch den Meridian in Sternzeit.
- 4) Den geozentrischen Halbmesser  $H$  der Sonnenscheibe, d. i. der Winkel, unter dem der Sonnenhalbmesser vom Erdmittelpunkt aus erscheint.

Die rechten Seiten geben:

- 1) Den Tag der julianischen Periode.
- 2) Die Sternzeit im Mittleren Greenwicher Mittag.

Um für einen anderen Erdort der westlichen Längendifferenz  $\Delta\lambda$  (in Stunden) gegen Greenwich die Sternzeit in seinem Mittleren Mittag zu erhalten, ist zu diesen Angaben zuzulegen:  $9^{\circ}.8565 \Delta\lambda$ . Diese Werte finden sich unter der Überschrift: »Korr. der Sternzeit« im Verzeichnis der Sternwarten.

3) Die geozentrischen ekliptikalen Koordinaten  $\lambda$ ,  $\beta$  des wahren Sonnenorts, bezogen auf das mittlere Äquinoktium des Jahresanfangs, sowie  $\log R$ , den Logarithmus der Entfernung  $R$  der Erde von der Sonne. Diese Angaben finden bei Bahnrechnungen u. dergl. Verwendung.

4) Die mittleren Ortszeiten des Aufgangs und Untergangs der Sonne für einen Ort des Nullmeridians in  $+50^\circ$  Breite; sie sind mit der Horizontalrefraktion  $34'.9$  berechnet und gelten für den oberen Rand der Sonne. Um daraus für einen beliebigen anderen Ort zwischen  $+30^\circ$  und  $+60^\circ$  geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 424, 425 zu benutzen.

Auf S. 20—37 folgen, bezogen auf das mittlere Äquinoktium des Jahresanfangs, die rechtwinkligen geozentrischen äquatorialen Sonnenkoordinaten für  $0^h$  und  $12^h$  Mittlere Zeit Greenwich mit ihren stündlichen Änderungen in Einheiten der siebenten Dezimale. Daneben stehen von Tag zu Tag ihre Reduktionen auf das mittlere Äquinoktium 1925.0. Auf S. 367—369 sind die vereinigten Werte, d. h. die auf das mittlere Äquinoktium 1925.0 bezogenen rechtwinkligen Sonnenkoordinaten sechstellig von 4 zu 4 Tagen gegeben; sie dienen zur bequemen Verbindung der Koordinatangaben aufeinanderfolgender Jahre bei Rechnungen über Kleine Planeten und Kometen. Am Fuß der Seite 37 finden sich die Zeiten für die Anfänge der Jahreszeiten und für das Peri- und Apogäum der Sonne.

Die Seite 38 enthält die Aberration, Parallaxe, mittlere Länge  $L_\odot$  und mittlere Anomalie  $M_\odot$  der Sonne im Intervall von je 10 Tagen.

### Mondephemeride (S. 39—58).

Seite 39 enthält die Zeitangaben für die Phasen und das Peri- und Apogäum des Mondes.

Die Mondephemeride (S. 40—57) gibt auf den linken Seiten für  $12^h$  Mittlere Zeit Greenwich:

- 1) Die scheinbare Rektaszension und Deklination des Mondmittelpunktes mit den ersten Differenzen.
- 2) Die Äquatorial-Horizontalparallaxe  $p_\zeta$  des Mondes.
- 3) Den geozentrischen Mondhalbmesser  $r_\zeta$ , d. i. der Winkel, unter dem der Mondhalbmesser vom Erdmittelpunkt aus erscheint.
- 4) Die Länge und Breite des Mondes, abgekürzt auf  $0^\circ.001$ .

Die rechten Seiten enthalten:

1) Für den oberen Durchgang des Mondes im Meridian von Greenwich die genäherten Angaben für die Rektaszension, Deklination und Parallaxe des Mondmittelpunktes, sowie die Mittlere Greenwicher Zeit dieses Durchgangs, nebst den Änderungen für  $1^h$  Längendifferenz.

2) Die mittleren Ortszeiten des Aufgangs und Untergangs des Mondes für einen Ort des Nullmeridians in  $+50^\circ$  Breite nebst Änderung für  $1^h$  Längendifferenz; sie sind mit der Horizontalrefraktion  $34'.9$  und der Parallaxe  $57'.0$  berechnet und gelten für den oberen Rand des Mondes. Um daraus für einen beliebigen anderen Ort zwischen  $+30^\circ$  und  $+60^\circ$  geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 426, 427 zu benutzen.

Auf S. 58 finden sich:

$\Omega$ , Aufsteigender Knoten der Mondbahn auf der Ekliptik

$L_{\odot}$ , Mittlere Länge des Mondes

$M_{\odot}$ , Mittlere Anomalie des Mondes

$i$ , Neigung des Mondäquators gegen den Erdäquator

$\Omega'$ , Aufsteigender Knoten des Mondäquators auf dem Erdäquator

$A$ , Stück des Mondäquators zwischen Ekliptik und Erdäquator.

$\mathcal{Q}$ , der aufsteigende Knoten des Mondäquators auf der Ekliptik ist gleich dem absteigenden Knoten der Mondbahn, also

$$\mathcal{Q} = \Omega \pm 180^{\circ}.$$

Die Größen  $i$ ,  $A$  und  $\Omega'$  berechnen sich aus:

$$\sin \frac{1}{2}(A + \Omega') \cos \frac{1}{2}i = \cos \frac{1}{2}(\varepsilon - J) \sin \frac{1}{2}\mathcal{Q}$$

$$\cos \frac{1}{2}(A + \Omega') \cos \frac{1}{2}i = \cos \frac{1}{2}(\varepsilon + J) \cos \frac{1}{2}\mathcal{Q}$$

$$\sin \frac{1}{2}(A - \Omega') \sin \frac{1}{2}i = \sin \frac{1}{2}(\varepsilon - J) \sin \frac{1}{2}\mathcal{Q}$$

$$\cos \frac{1}{2}(A - \Omega') \sin \frac{1}{2}i = \sin \frac{1}{2}(\varepsilon + J) \cos \frac{1}{2}\mathcal{Q};$$

dabei ist  $J$ , die Neigung des Mondäquators gegen die Ekliptik, nach F. Hayn (Astr. Nachr. Bd. 199, S. 263) zu  $J = 1^{\circ} 32' 20''$  angenommen worden. Die Zahlen geben die Lage des mittleren Mondäquators (ohne physische Libration).

Die auf S. 58 gemachten Angaben über die Elemente der Mondbahn und des Mondäquators dienen, teilweise in Verbindung mit den Größen  $L_{\odot}$  und  $M_{\odot}$  auf S. 38, verschiedenen Zwecken:

1) Als Argumente für die Berechnung der Reduktionsgrößen  $A, B, C, D, E, A', B'$ .

2) Bei Bestimmung der selenographischen Koordinaten von Punkten der Mondoberfläche (siehe darüber den folgenden Abschnitt).

3) Bei Berechnung der *optischen* und *physischen* Libration des Mondes.

a) Für die Berechnung der *optischen* Libration des Mondes sind alle nötigen Angaben in den Erläuterungen zu den Hilfstafeln unter Nr. 6 gemacht.

b) Die Beträge der *physischen* Mondlibration in selenographischer Länge, der Neigung des Mondäquators und seinem aufsteigenden Knoten auf der Ekliptik  $\tau, \varrho, \sigma$  haben die Werte:

$$\tau = -13'' \sin M_{\odot} + 65'' \sin M_{\odot} + 26'' \sin 2(L_{\odot} - M_{\odot} - \Omega)$$

$$\varrho = -106'' \cos M_{\odot} + 34'' \cos(2L_{\odot} - M_{\odot} - 2\Omega) - 11'' \cos 2(L_{\odot} - \Omega)$$

$$\sigma \sin J = -108'' \sin M_{\odot} + 34'' \sin(2L_{\odot} - M_{\odot} - 2\Omega) - 11'' \sin 2(L_{\odot} - \Omega)$$

Diese Zahlenangaben beruhen auf der Annahme  $f = 0.73$ , worüber F. Hayn (Astr. Nachr. Bd. 199, S. 264) einzusehen ist.



## Ephemeride für den Mondkrater Mösting A

(S. 59—63).

Die Ephemeride des Mondkraters Mösting A dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Beobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschluß an Mösting A.

Sie gilt für 12<sup>h</sup> Mittlere Zeit Greenwich und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die Unterschiede  $\alpha_{\alpha} - \alpha_k$  in Rektaszension und  $\delta_{\alpha} - \delta_k$  in Deklination zwischen der Mondmitte und dem Krater, vom Erdmittelpunkt aus gesehen, sowie den Logarithmus des Sinus der Äquatorial-Horizontalparallaxe  $p_k$  des Kraters, welche von der des Mondes  $p_{\alpha}$  zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Beobachtungen des Kraters interpoliere man  $\alpha_{\alpha} - \alpha_k$ ,  $\delta_{\alpha} - \delta_k$  und  $\log \sin p_k$  mit der Beobachtungszeit. Fügt man alsdann  $\alpha_{\alpha} - \alpha_k$  und  $\delta_{\alpha} - \delta_k$  zum geozentrischen Ort des Kraters (die Parallaxe wird mit  $p_k$  und  $\delta_k$ , der Deklination des Kraters, berechnet), so hat man die geozentrische AR. und Dekl. des Mondes für die Beobachtungszeit.

Hat man einen Punkt der Mondoberfläche mikrometrisch an Mösting A angeschlossen, so bestimme man zunächst die topozen trischen, d. h. mit Parallaxe behafteten Koordinatendifferenzen  $\alpha'_{\alpha} - \alpha'_k$  und  $\delta'_{\alpha} - \delta'_k$  zwischen Mondmittelpunkt und Mösting A aus folgenden Identitäten:

$$\begin{aligned}\alpha'_{\alpha} - \alpha'_k &= \alpha_{\alpha} - \alpha_k + (\alpha'_{\alpha} - \alpha_{\alpha}) - (\alpha'_k - \alpha_k) \\ \delta'_{\alpha} - \delta'_k &= \delta_{\alpha} - \delta_k + (\delta'_{\alpha} - \delta_{\alpha}) - (\delta'_k - \delta_k).\end{aligned}$$

Verbindet man die so erhaltenen topozen trischen Abstände zwischen der Mondmitte und Mösting A mit den mikrometrischen Messungen zwischen Mösting A und einem zweiten Krater, so erhält man die topozen trische Lage des letzteren gegen die Mondmitte und kann hieraus mit Hilfe von  $\alpha'_{\alpha}$  und  $\delta'_{\alpha}$  und den Angaben auf Seite 58 die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit  $\alpha'$  und  $\delta'$  die topozen trische AR. und Dekl. des an Mösting A angeschlossenem Kraters, so hat man:

$$\begin{aligned}s \sin \pi_m &= (\alpha' - \alpha'_{\alpha}) \cos \frac{1}{2} (\delta' + \delta'_{\alpha}) \\ s \cos \pi_m &= \delta' - \delta'_{\alpha} \\ \pi &= \pi_m - \frac{1}{2} (\alpha' - \alpha'_{\alpha}) \sin \frac{1}{2} (\delta' + \delta'_{\alpha})\end{aligned}$$

$$\sin (K + s) = \sin s \operatorname{cosec} h'.$$

$h'$  ist der Abstand des Kraters vom Mondschwerpunkt, gesehen vom Beobachtungsort aus, der aus  $h$ , dem vom Erdmittelpunkt aus gesehenen Abstand, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für  $h$  der aus Sternbedeckungen folgende Wert des Mondhalbmessers  $15' 32''.59$  (nach J. Peters, Astr. Nachr. Bd. 138, S. 147) eingesetzt werden.

$$\begin{aligned}\sin d &= -\sin \delta'_{\alpha} \cos K + \cos \delta'_{\alpha} \sin K \cos \pi \\ \cos d \cos (a - \alpha'_{\alpha}) &= -\cos \delta'_{\alpha} \cos K - \sin \delta'_{\alpha} \sin K \cos \pi \\ \cos d \sin (a - \alpha'_{\alpha}) &= \sin K \sin \pi \\ \sin \beta &= \sin d \cos i - \cos d \sin i \sin (a - \Omega') \\ \cos \beta \sin \lambda' &= \sin d \sin i + \cos d \cos i \sin (a - \Omega') \\ \cos \beta \cos \lambda' &= \cos d \cos (a - \Omega') \\ \lambda &= \lambda' - 180^{\circ} - L_{\alpha} - (\Delta - \Omega).\end{aligned}$$

Die so erhaltenen Werte von  $\lambda$  und  $\beta$  beziehen sich auf den mittleren (vom Einfluß der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrekturen:

$$\begin{aligned}d\lambda &= +13'' \sin M_{\alpha} - 65'' \sin M_{\odot} - 26'' \sin 2(L_{\alpha} - M_{\alpha} - \Omega) \\ &\quad + 1g\beta [-106'' \cos (L_{\alpha} - M_{\alpha} - \Omega + \lambda) + 34'' \cos (L_{\alpha} - M_{\alpha} - \Omega - \lambda) \\ &\quad \quad \quad - 11'' \cos (L_{\alpha} - \Omega - \lambda)] \\ d\beta &= +108'' \sin (L_{\alpha} - M_{\alpha} - \Omega + \lambda) + 34'' \sin (L_{\alpha} - M_{\alpha} - \Omega - \lambda) \\ &\quad \quad \quad - 11'' \sin (L_{\alpha} - \Omega - \lambda)\end{aligned}$$

Bringt man diese Korrekturen  $d\lambda$  und  $d\beta$  an  $\lambda$  und  $\beta$  an, so erhält man die selenographischen Koordinaten des Kraters:

$$\lambda_0 = \lambda + d\lambda, \quad \beta_0 = \beta + d\beta$$

Der Berechnung der Ephemeride des Kraters Mösting A liegen folgende von F. Hayn ermittelten Konstanten (Astr. Nachr. Bd. 199, S. 263) zugrunde:

$$\begin{aligned}\lambda_0 &= -5^{\circ} 10' 7'', & \beta_0 &= -3^{\circ} 11' 2'' \\ h &= 15' 33''.4\end{aligned}$$

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$\begin{aligned}d\lambda &= -13'' \sin M_{\alpha} + 65'' \sin M_{\odot} + 26'' \sin 2(L_{\alpha} - M_{\alpha} - \Omega) \\ d\beta &= -107'' \sin (L_{\alpha} - M_{\alpha} - \Omega + \lambda_0) - 34'' \sin (L_{\alpha} - M_{\alpha} - \Omega - \lambda_0) \\ &\quad \quad \quad + 11'' \sin (L_{\alpha} - \Omega - \lambda_0),\end{aligned}$$

so daß die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A sind:

$$\lambda = \lambda_0 + d\lambda, \quad \beta = \beta_0 + d\beta.$$

Die Formeln zur Berechnung der Ephemeride siehe in den Erläuterungen zum Jahrbuch 1916.

## Ephemeriden der Grossen Planeten

(S. 64—112).

Die geozentrischen Örter der Planeten sind für Merkur, Venus und Mars von Tag zu Tag, für Jupiter, Saturn und Uranus von 2 zu 2 Tagen und für Neptun von 4 zu 4 Tagen mit ihren ersten Differenzen gegeben, und zwar in scheinbaren, d. h. auf das momentane wahre Äquinoktium bezogenen Koordinaten des scheinbaren Orts, für  $0^h$  Mittlere Zeit Greenwich. Die letzte Spalte gibt die Mittlere Greenwicher Zeit der oberen Kulmination in Greenwich.

Für die Reduktion und die Vergleichung der Planetenbeobachtungen mit der Ephemeride ist die Kenntnis der scheinbaren Halbmesser erforderlich. Man kann für dieselben in der Einheit der Entfernung annehmen:

für Merkur Halbmesser	. . . . .	3.34	
» Venus	» . . . . .	8.78	
» Mars	» . . . . .	4.68	
» Jupiter	» (Äquatorial)	99.8,	(Polar) 92.6
» Saturn	» (Äquatorial)	81.4,	(Polar) 73.4
» Uranus	» . . . . .	34.7	
» Neptun	» . . . . .	45	

Die heliozentrischen Ephemeriden der Planeten (S. 109—112) geben den Log. des Radiusvector, die Länge in der Bahn, deren Reduktion auf die Ekliptik und die Breite, außerdem bei den Planeten Jupiter, Saturn, Uranus und Neptun noch den bei Störungsrechnungen manchmal gebrauchten Winkel  $B_0$ , welchen der Radiusvector mit derjenigen Bahnebene macht, für welche die bei jedem Planeten gemachten Angaben über  $\Omega$  und  $i$  gelten.

Bei Jupiter, Saturn, Uranus und Neptun stellen  $\Omega$  und  $i$  die Bahnlage für die Epoche 1925.0 und das Normaläquinoktium 1925.0 dar; bei Merkur, Venus und Mars gelten sie für den Jahresanfang 1923.0 und sind bezogen auf das Äquinoktium 1925.0.

Die Genauigkeit und Ausführlichkeit dieser heliozentrischen Angaben sind ihrem Hauptzweck, zur Berechnung der speziellen Störungen zu dienen, angepaßt.

Die beigegeführten Werte der Planetenmassen sind die den Tafeln von Newcomb und von Hill zugrunde liegenden. Für die Erde ist noch besonders zu erwähnen, daß die Masse von »Erde + Mond« gegeben ist, Radiusvector und heliozentrische Länge sich auf den Schwerpunkt des Systems »Erde + Mond« beziehen.



### Mittlere Örter von 925 Fixsternen (S. 114—137).

Die mittleren Örter der 925 Fixsterne sind aus den Daten der Veröffentlichung Nr. 33 des *Königlichen Astronomischen Rechen-Instituts* mit den daselbst angegebenen Hilfsgrößen für Präzession und Eigenbewegung abgeleitet worden. Nur die mittleren Örter der 20 Polsterne sind durch mechanische Quadratur berechnet.

Die Angaben über die Sternspektra sind der »Revised Harvard Photometry« in »Harvard Annals, vol. 50« entnommen.

### Scheinbare Örter von 573 Fixsternen (S. 138—337).

Die scheinbaren Örter der Fixsterne sind für den Moment der oberen Kulmination im Greenwicher Meridian gegeben und enthalten die kurzperiodischen Mondglieder der Nutation nicht; nur bei den 18 Polsternen ist deren Betrag gesondert unter der Überschrift (Gl. gegeben.

Zunächst werden die scheinbaren Örter von 555 Sternen von 10 zu 10 Sterntagen gegeben; in der ersten Spalte ist die Mittlere Greenwicher Zeit der Kulmination hinzugefügt.

Es folgen die scheinbaren Örter für 18 weniger als  $10^\circ$  von den Polen entfernte Sterne für jede obere Kulmination. Die Anordnung ist eine derartige, daß für jeden Zeitraum einer Seite sämtliche 9 (entweder nördliche oder südliche) Polsterne nebeneinander aufgeführt sind, wie es für den Gebrauch am geeignetsten erscheint. Die Glieder zweiter Ordnung der »Reduktion auf den scheinbaren Ort« sind hierbei berücksichtigt.

Am Fuß der Ephemeriden ist der mittlere Ort eines jeden Sterns für den Anfang des Jahres, außer für die Polsterne, wieder angegeben, dazu die Werte von  $\operatorname{tg} \delta$  und  $\operatorname{sec} \delta$ , welche bei der Reduktion der Meridianbeobachtungen nach der hierfür am zweckmäßigsten erscheinenden Besselschen Formel gebraucht werden.

Die jährliche Parallaxe ist bei folgenden Sternen, bei denen sie  $0''.20$  übersteigt und hinreichend verbürgt erscheint, nämlich:

Nr. 59 $\tau$ Ceti	mit 0.31	Nr. 538 $\alpha$ Centauri	mit 0.75
Nr. 127 $\epsilon$ Eridani	» 0.32	Nr. 745 $\alpha$ Aquilae	» 0.23
Nr. 257 $\alpha$ Can. maj.	» 0.38	Nr. 793 $\beta$ Cygni	» 0.30
Nr. 291 $\alpha$ Can. min.	» 0.33		

bereits berücksichtigt. Von den nicht mit Ephemeriden versehenen Sternen des F. K. besitzt noch Nr. 825  $\epsilon$  Indi eine Parallaxe von  $0''.25$ .

### Reduktionsgrößen (S. 338—374).

Auf die scheinbaren Örter der Sterne folgt S. 338 eine Zusammenstellung der Werte, mit welchen die Reduktionsgrößen der darauf folgenden Tafeln berechnet sind, und der Formeln für die Reduktion auf den scheinbaren Ort.

Die Größen zur »Reduktion auf den scheinbaren Ort« sind in ihrer ersten Form:  $A, B, C, D, E; A', B'$  gegeben für  $12^h$  Sternzeit des Meridians von Greenwich:

1) Auf S. 339 im Intervall von 10 Sterntagen.

Diese Tafel soll zur Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge dienen. Wegen ihrer logarithmischen Form und des großen Intervalls ist die Tafel zur Interpolation nicht geeignet. Man wird deshalb zweckmäßig die Interpolation erst nach der Summierung der einzelnen unmittelbar für die Epochen der Tafel berechneten Glieder vornehmen.

2) Auf S. 358—366 für jeden Sterntag. Hier sind die numerischen Werte von  $A, B, C$  und  $D$  mit ihren Differenzen gegeben und die kurzperiodischen Mondglieder  $A'$  und  $B'$  mit angeführt.

Beiden Tafeln ist in einer Spalte die dem festen Sternzeitmoment jedesmal entsprechende Mittlere Zeit Greenwich vorangestellt; man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch Datum, Sternzeit und Längendifferenz gegen Greenwich, übergehen können. Eine weitere Spalte gibt die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres.

Die Reduktionsgrößen der zweiten Form:  $f, \log g, G, \log h, H, \log i$  sowie  $f', g'$  und  $G'$  sind S. 340—357 von Tag zu Tag für  $12^h$  Mittlere Zeit Greenwich gegeben. Um den Gebrauch der Spalte  $\log i$  zu erleichtern, sind an den Stellen, wo die Werte von  $i$  durch Null gehen, auch die numerischen Werte in besonderer Spalte hinzugefügt.

Auch hier findet sich eine Spalte,  $t$  überschrieben, welche die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres gibt.

Die Seiten mit ungerader Seitenzahl enthalten außer den schon erwähnten  $f', g', G'$  noch folgende Größen:

- a)  $\psi$  = Allgemeine Präzession seit 1923.0.
- b)  $\Delta\psi$  = Langperiodische Glieder der Nutation in Länge.
- c)  $\Delta\psi'$  = Kurzperiodische Glieder der Nutation in Länge.
- d) Die wahre Schiefe der Ekliptik.
- e)  $\Delta\varepsilon$  = Langperiodische Glieder der Nutation in Schiefe.
- f)  $\Delta\varepsilon'$  = Kurzperiodische Glieder der Nutation in Schiefe.

Die mittlere Schiefe der Epoche erhält man durch Subtraktion der Gesamtnutation ( $\Delta\varepsilon + \Delta\varepsilon'$ ) von der wahren Schiefe (in Spalte d).

Weitere Reduktionsgrößen folgen auf Seite 367—369. Es sind dies zunächst die rechtwinkligen äquatorialen Sonnenkoordinaten, bezogen auf das Normaläquinoktium 1925.0, die hauptsächlich zur Berechnung von genaueren Ephemeriden Kleiner Planeten nützlich sind.

Die auf den gleichen Seiten gegebenen Größen  $f$ ,  $\log g$  und  $G$  dienen zur Übertragung der Örter von dem mittleren Normaläquinoktium  $t_2 = 1925.0$  auf das instantane wahre Äquinoktium  $t_1$ . Diese Übertragung bedarf noch einer Korrektion, die für die Jahre um 1925 unmerklich klein ist und daher nicht mehr gegeben wird.

Auf Seite 370 findet sich eine Tafel der Hilfsgrößen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium von 1923.0 sowie auf Seite 371 eine Tafel der Hilfsgrößen zur Berechnung der Präzession von verschiedenen mittleren Äquinoktien bis 1923.0. Die Formeln zur Übertragung der Polsternörter von dem Äquinoktium  $t_2$  auf  $t_1$  sind auf Seite 370 ebenfalls angegeben.

Eine Tafel zur Übertragung von Sternörtern vom mittleren Äquinoktium von 1923.0 auf das Normaläquinoktium 1925.0 (auf Seite 372 bis 374) beschließt die Sammlung der Tafeln der Reduktionsgrößen.

### Sonnen- und Mondfinsternisse (S. 376—381).

Über die Verwendung der bei den Sonnenfinsternissen gegebenen Besselschen Elemente zur Vorausberechnung der Phasenzeiten und der Positionswinkel der Kontakte siehe die Erläuterungen zum Jahrbuch 1916, die auch ein durchgeführtes Zahlenbeispiel enthalten.

( $\mu'$  ist nicht mehr tabuliert und durchweg = 15 anzusetzen.)

### Sternbedeckungen durch den Mond (S. 382—386).

Für die an irgend einem Ort in Mitteleuropa (das Gebiet gelegen zwischen  $+45^\circ$  und  $+55^\circ$  geographischer Breite und  $0^h 25^m$  und  $1^h 25^m$  östlicher Greenwicher Länge) beobachtbaren Bedeckungen sind gegeben:

- 1) ein Verzeichnis der bedeckten Sterne; die angegebenen Nummern beziehen sich auf den: Catalogue of Zodiacal Stars by H. B. Hedrick, veröffentlicht in: Astronomical Papers of the American Ephemeris, Vol. VIII, Part III.
- 2) die Mittlere Greenwicher Zeit der Konjunktion in Rektaszension von Mond und Gestirn.

Es soll mit diesen Angaben nur auf die Bedeckungen aufmerksam gemacht werden. Bezüglich der zur genaueren Vorausberechnung (siehe die Erläuterungen zum Jahrbuch 1916, die auch ein Beispiel enthalten) dienenden Elemente sei auf die American Ephemeris verwiesen.

### Jupiterstrabanten (S. 387—388).

Die Seiten 387 und 388 enthalten die Zeitangaben für die Verfinsterungen der vier älteren Jupiterstrabanten in dem Schattenkegel des Jupiter; Ein- und Austritte sind durch beigefügtes E. und A. unterschieden.



## Saturnsring (S. 389—392, 404).

Die Angaben für die scheinbare Größe des Saturn und für die Lage und Größe des Saturnsrings haben die folgende Bedeutung:

- $\alpha$  Große Achse des Saturn.
- $\beta$  Scheinbare kleine Achse des Saturn.
- $p_a$  Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.
- $a$  Große Achse der Ringellipse.
- $b$  Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.
- $U'$  Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.
- $B'$  Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.
- $P'$  Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Längengrade; östlich positiv, westlich negativ.
- $U$  Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.
- $B$  Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.
- $P$  Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise; östlich positiv, westlich negativ.
- $N$  Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an.
- $J$  Neigung der Ringebene gegen den Erdäquator.
- $\omega$  Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene.

Es liegen folgende Bestimmungen nach Struve zugrunde:

Durchmesser des Saturn in der Entfernung 9,53887

Äquatorial 17".47                      Polar 15".65

Lage des Saturnsrings gegen die Ekliptik und das Äquinoktium  
von 1889.25

$$\Omega_1 = 167^\circ 57'.0 \quad \text{und} \quad i_1 = 28^\circ 5'.6;$$

Durchmesser des Ringes in der Entfernung 9,53887

$$2R = 39".35.$$

## Saturnstrabanten (S. 393—417).

Alle Berechnungen über die Saturnstrabanten sind mit den von H. Struve in:

- I. Beobachtungen der Saturnstrabanten, 1. Abteilung, 1. Supplementheft zu den »*Observations de Poulkova*«;
- II. *Publications de l'Observatoire Central Nicolas*, Série II, Vol. XI,

abgeleiteten, in Astr. Nachr. Bd. 162, S. 325 u. ff. weiter verbesserten Elementen durchgeführt. Für die Halbachsen der 6 inneren Trabanten sind die auf Seite 239 der zweiten Abhandlung mittels der Saturnsmasse  $\mu = \frac{1}{3500}$  rechnerisch abgeleiteten Werte angenommen.

Zunächst sind für die fünf inneren Trabanten auf den Seiten 393 bis 404 die Hilfsmittel gegeben, um in bequemer Weise ihre Positionen ableiten zu können. Sieht man hierbei von den Neigungen  $\gamma$  ab, so erhält man die rechtwinkligen Koordinaten  $x$  und  $y$  des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen  $X$ -Achse parallel der großen Achse des Ringes verläuft, positiv, wenn östlich, negativ, wenn westlich vom Saturn, und dessen positive  $Y$ -Achse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise den Winkel  $P$  einschließt, aus den Gleichungen:

$$x = \frac{a(\mathcal{A})}{\mathcal{A}} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\mathcal{A})}{\mathcal{A}} \frac{1}{1+\zeta} \frac{r}{a} \sin B \cos(u-U).$$

( $\mathcal{A}$ ) = 9.53887 bezeichnet den mittleren Wert der Entfernung Sonne—Saturn,  $\mathcal{A}$  ist die Entfernung Erde—Saturn,  $u = L + (v - M)$  ist die wahre Länge des Trabanten vom Erdäquator an gezählt.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei *Mimas*, *Tethys* und *Rhea* die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen;  $x$  und  $y$  ergeben sich dann aus:

$$x = \frac{a(\mathcal{A})}{\mathcal{A}} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\mathcal{A})}{\mathcal{A}} \frac{1}{1+\zeta} \frac{r}{a} \sin B [\cos(u-U) + \sin \gamma \cotg B \sin(u-U)].$$

Die Werte von  $\theta$ , der Länge des aufsteigenden Knotens der Trabantenbahn auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator, finden sich auf Seite 404; auch ist hier für *Rhea*  $\gamma$ , weil stärker mit der Zeit veränderlich, in Intervallen von 16 Tagen gegeben.

Will man aus  $x$  und  $y$  die Rektaszensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p-P) = x$$

$$s \cos(p-P) = y$$

$$\Delta\alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$

$$\Delta\delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 405—413 finden sich für die drei äußeren Trabanten Titan, Hyperion und Japetus, außer den Hilfsgrößen  $U$ ,  $B$  und  $P$ , die Rektaszensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet. Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantenörter sind wahre Örter und beziehen sich auf das mittlere Äquinoktium der Epoche.

Zum Schluß enthalten die Seiten 414—417 die Zeitangaben für die östlichen Elongationen von Mimas, Enceladus, Tethys, Dione, Rhea, ferner für die östlichen und westlichen Elongationen ( $u - U = \pm 90^\circ$ ) und für die oberen und unteren Konjunktionen ( $u - U = 0^\circ, 180^\circ$ ) von Titan, Hyperion und Japetus mit Saturn; diese Zeitangaben für die Elongationen und Konjunktionen sind bereits für Lichtzeit korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

### Konstellationen (S. 418).

In der Übersicht der Konstellationen des Jahres 1923 sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne, Mond und die Sterne 1. und 2. Größe, letztere nur soweit, als die Differenz der Deklination zwischen Planet und Stern den Betrag von  $1^\circ$  nicht übersteigt, sowie die Angaben der Epochen, zu welchen sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeutung der hier verwendeten Zeichen siehe Seite VIII des Vorworts. — Die Konjunktionen der Planeten mit dem Mond und ihre gegenseitigen sind als Konjunktionen in AR. zu verstehen. Letztere sind nur insoweit berücksichtigt, als die Differenz der Deklinationen beider Planeten den Betrag von  $3^\circ$  nicht übersteigt. Für die Berechnung der Epochen der größten Helligkeit der Venus wurde für die Lichtstärke die Formel von G. Müller (*Publikationen des Astrophys. Observatoriums zu Potsdam*, Bd. VIII, Seite 197 ff.) zugrunde gelegt:

$$h = -4.004 + 0.01322 \alpha + 0.0000004247 \alpha^2 + 5 \log(r \Delta),$$

worin  $\alpha$  (in Graden) den Winkel an der Venus im Dreieck Sonne—Venus—Erde,  $r$  und  $\Delta$  die ihn einschließenden Seiten bezeichnen.

### Hilfstafeln (S. 419—438).

Es folgt eine Reihe von häufig gebrauchten Hilfstafeln.

1) Tafeln für Präzessionswerte (S. 419—421).

a) Präzession in Rektaszension und Deklination (Seite 419).

$$p_\alpha = m + \frac{1}{15} n \sin \alpha \operatorname{tg} \delta$$

$$p_\delta = n \cos \alpha$$

b) Präzessionswerte  $m$ ,  $n$ ,  $\psi$ ,  $\pi$ ,  $\Pi$  und die mittlere Schiefe der Ekliptik (Seite 419).



c) Präzession in Länge und Breite (Seite 420 u. 421).

$$p_{\lambda} = \psi + \pi \operatorname{tg} \beta \cos (\Pi - \lambda)$$

$$p_{\beta} = \pi \sin (\Pi - \lambda)$$

Den Tafeln a) und b) liegen die Präzessionswerte für 1925,0 zugrunde. Über die Bedeutung der Bezeichnungen und die Zahlenwerte vergleiche die Erläuterungen zum Jahrbuch für 1916.

2) Tafel des halben Tagbogens (S. 422—423). Berechnet mit der Horizontalrefraktion 34',9 für geographische Breiten von +30° bis +60° und Deklinationen von -30° bis +30°.

3) Reduktionstabellen für die Auf- und Untergangszeiten der Sonne und des Mondes (S. 424—427). Sie geben die Reduktion der für +50° Breite gültigen Zeiten, wie sie in den Ephemeriden enthalten sind, auf geographische Breiten zwischen +30° und +60° und sind mit der Horizontalrefraktion 34',9 für das Erscheinen oder Verschwinden des oberen Gestirnsrandes gerechnet.

4) Eine Tafel für die Ermittlung eines Datums in der julianischen Periode (Seite 428—431.) Die Tafel besteht aus zwei Teilen: Der erste Teil (S. 428—429) gibt in vierjährigen Schaltperioden für die Jahre 0 bis 2000 die Anzahl der am 0. Januar seit Anfang der Julianischen Periode verflossenen Tage. Als Ergänzung gibt die Hilfstafel am Fuß der Seite die Anzahl der am 0. jedes Monats seit Beginn der Schaltperiode verflossenen Tage. Der zweite Teil (S. 430—431) gibt für die Jahre 1860—1939 unmittelbar die Anzahl der am 0. jedes Monats im gregorianischen Kalender seit Beginn der julianischen Periode verflossenen Tage.

5) Hilfstafeln zur Verwandlung von Mittlerer Zeit in Sternzeit (S. 432) und von Sternzeit in Mittlere Zeit (S. 433).

6) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (S. 434—435).

7) Die Tafel zur Berechnung der optischen Mondlibration (S. 436—437) gibt mit dem Argument  $\lambda - \Omega$  die Werte  $\Delta\lambda$ ,  $a$  und  $B$  entsprechend den Gleichungen:

$$\Delta\lambda = \frac{1}{\operatorname{arc} 1'} \operatorname{tang}^2 \frac{1}{2} J \sin 2(\lambda - \Omega)$$

$$a = -\cos(\lambda - \Omega) \sin J$$

$$\operatorname{tang} B = -\sin(\lambda - \Omega) \operatorname{tang} J$$

$J$  = Neigung des Mondäquators gegen die Ekliptik.

$\Omega$  = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik (s. S. 58).

$\lambda, \beta$  = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

Bezeichnen noch  $L_{\alpha}$  die mittlere Länge des Mondes,  $l'$  und  $b'$  die optische Libration der Mondmitte in selenographischer Länge und Breite, so ist:

$$l' = \lambda - L_{\alpha} + \Delta\lambda - a(B - \beta)$$

$$b' = B - \beta$$

Der Winkel  $C$ , welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Stundenkreise bildet, ergibt sich aus der Gleichung:

$$\sin C = -\sin i \frac{\cos(L_{\alpha} + l' + \Delta - \zeta\delta)}{\cos \delta_{\alpha}} = -\sin i \frac{\cos(\alpha_{\alpha} - \delta\delta')}{\cos b'}$$

worin  $\alpha_{\alpha}$ ,  $\delta_{\alpha}$  Rektaszension und Deklination des Mondmittelpunktes, gesehen vom Beobachtungsort aus, bezeichnen; die anderen vorkommenden Größen  $i$ ,  $\Delta$ ,  $\zeta\delta$  und  $\delta\delta'$  haben schon auf S. 449 ihre Erklärung gefunden.

8) Eine Tafel der Hilfsgrößen  $s$  und  $c$  (S. 438) zur Berechnung der geozentrischen Breite  $q'$  und der geozentrischen Entfernung  $\rho$  eines Erdortes, ausgedrückt in Einheiten der großen Halbachse des Erdellipsoids, aus der geographischen Breite  $q$  nach den Formeln:

$$\rho \sin q' = s \sin q$$

$$\rho \cos q' = c \cos q$$

Darin haben  $s$  und  $c$  die Bedeutung:

$$s = \frac{1 - e^2}{\sqrt{1 - e^2 \sin^2 q}}, \quad c = \frac{1}{\sqrt{1 - e^2 \sin^2 q}}, \quad e = \sqrt{2a - a^2}$$

Gemäß den Beschlüssen der Pariser Ephemeridenkonferenz von 1911 ist dabei die Abplattung  $a = \frac{1}{297.0}$  angenommen.

### Koordinaten der Sternwarten (S. 439—446).

Die Seiten 439—446 enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben, wo sie sich einigermaßen sicher ermitteln ließen. Die Angaben sind zum größten Teil dem Verzeichnis von Auwers im *Geographischen Jahrbuch*, dem *Nautical Almanac* oder der *American Ephemeris* entnommen.

Die geographischen Längen sind auf den Meridian von Greenwich bezogen und dem entsprechend gibt die »Korrektion der Sternzeit« die Differenz: Sternzeit im Mittleren Ortsmittag minus Sternzeit im Mittleren Greenwicher Mittag an.

Die geozentrischen Koordinaten sind den Beschlüssen der Pariser Ephemeridenkonferenz vom Oktober 1911 gemäß unter Annahme der Abplattung  $1 : 297.0$  berechnet.

Bei Berechnung von  $\log \rho$  ist die Seehöhe berücksichtigt.

Nach brieflicher Mitteilung sind die Angaben für Konstanz und Sonneberg eingefügt und die Anmerkung für Budapest verbessert. Die Koordinaten von Adelaide sind nach Intelligence Bulletin Adelaide 1910 geändert.

### Normalzeiten der wichtigeren Länder (S. 447).

Hier sind die in den wichtigeren Ländern eingeführten Normalzeiten in zwei Gruppen zusammengestellt, je nachdem sie an den Meridian von Greenwich angeschlossen sind oder einen eigenen Landes-Meridian zugrunde legen.

### Berichtigungen.

Jahrgang 1921

Seite 239     $\epsilon$  Herculis    Juni 9.5.     $\delta$  56.75 statt 76.75

Jahrgang 1922

Seite 23    Die Reduktionen auf 1925.0 sind eine Zeile höher zu setzen.

» 63    Dez. 30.5     $\Delta \delta = 142.2$  statt  $142.3$

Dez. 31.5     $\Delta \alpha = 1.49$  statt  $1.50$

$\Delta \delta = 154.2$  statt  $155.7$

» 68    Juli 23 und 24.    Kulminationszeit  $1^h$  zu erhöhen.

» 212    486) 8 Draconis.     $\delta + 65^\circ 51'$  statt  $+ 61^\circ 51'$

» 417    Okt. 23     $24 \circledast \odot$  statt  $24 \circledast \odot$

Jahrgang 1923

$\epsilon$  Ursae minoris

Die Ephemeride bedarf in Rektaszension folgender Verbesserungen:

Juni 9	—0.01	Aug. 8	—0.06	Okt. 7	—0.07	Dez. 5	—0.01
19	2	18	7	17	6	15	0
29	3	28	7	27	5	25	+0.01
Juli 9	4	Sept. 7	7	Nov. 6	4	35	2
19	5	17	7	16	3		
29	6	27	7	26	2		

Jahrgang 1919    Seite 371

» 1920    » 371 und 456

» 1921    » 371 » 456

» 1922    » 371 » 455

In den Formeln für die Übertragung der Polsternörter ist zu verbessern:

$$a_2 = a_1 + [(m) + (N) - 90^\circ] + \Delta a$$

$$\text{bzw. } a_1 = a_2 - [90^\circ - (N)] + \Delta a_2$$

Jahrgang 1920    Seite 422

» 1921    » 422

» 1922    » 418

$$\varphi + 48^\circ \quad \delta + 17^\circ$$

lies  $7^h 23^m.3$  statt  $6^h 23^m.3$



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