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**Astronomisches Jahrbuch**

für

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 145 (1920)

## Vorwort

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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 de la lune* von P. A. Hansen, unter Verbesserung der Tafel 34 für das Fundamentalargument nach Newcomb. Außerdem enthalten die Mondörter die empirischen Korrekturen von Newcomb nach: »Corrections to Hansen's tables of the Moon« (Washington, 1878).

Mittlere Mondparallaxe nach Hansen  $57' 2''.27$ .

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

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

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 Königlichen 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 nur ganz geringfügige Änderungen erfahren. Bezüglich der Zahlengrundlagen sei auf die im Berliner Jahrbuch für 1916 gegebene Darstellung der »Grundbegriffe der Sphärischen Astronomie« hingewiesen, von der Sonderabdrücke auf Wunsch durch das Astronomische Rechen-Institut, Berlin-Dahlem, zu erhalten sind.

Fritz Cohn.

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# Zeit- und Festrechnung 1920

Das Jahr 1920 entspricht dem  
 Jahr 6633 der Julianischen Periode und dem  
 Jahr 7428 — 7429 der Byzantinischen Ära

## Gregorianischer oder Neuer Kalender

Septuagesima	1. Febr.
Aschermittwoch	18. Febr.
I. Quatember	25. Febr.
Ostersonntag	4. April
Himmelfahrt	13. Mai
Pfingstsonntag	23. Mai
II. Quatember	26. Mai
III. Quatember	15. Sept.
I. Advent	28. Nov.
IV. Quatember	15. Dez.

## Julianischer oder Alter Kalender

	Tag im Julia- nischen Kalender	Tag im Gregoria- nischen Kalender
Septuagesima	26. Jan.	8. Febr.
Ascherwittwoch	12. Febr.	25. Febr.
I. Quatember	19. Febr.	3. März
Ostersonntag	29. März	11. April
Himmelfahrt	7. Mai	20. Mai
Pfingstsonntag	17. Mai	30. Mai
II. Quatember	20. Mai	2. Juni
III. Quatember	16. Sept.	29. Sept.
I. Advent	29. Nov.	12. Dez.
IV. Quatember	16. Dez.	29. Dez.

## Kalender der Mohammedaner

1338 (Schaltjahr)

Dschemâdi-el-awwel I . . . . .	1920	Jan. 22
Dschemâdi-el-accher I . . . . .	»	Febr. 21
Redscheb I . . . . .	»	März 21
Schabân I . . . . .	»	April 20
Ramadân I . . . . .	»	Mai 19
Schewwâl I . . . . .	»	Juni 18
Dsú 'l-kade I . . . . .	»	Juli 17
Dsú 'l-hedsche I . . . . .	»	Aug. 16

1339 (Gemeinjahr)

Moharrem I . . . . .	1920	Sept. 15
Safar I . . . . .	»	Okt. 15
Rebî-el-awwel I . . . . .	»	Nov. 13
Rebî-el-accher I . . . . .	»	Dez. 13

## Kalender der Juden

5680 (Ordentliches Gemeinjahr)

Tebet	10	Fasten. Belagerung Jerusalems . . . . .	1920	Jan.	1
Schebat	1	. . . . .	»		21
Adar	1	. . . . .	»	Febr.	20
	13	Fasten - Esther . . . . .	»	März	3
	14	Purim . . . . .	»		4
	15	Schuschon - Purim . . . . .	»		5
Nisan	1	. . . . .	»		20
	15	Passah - Anfang* . . . . .	»	April	3
	16	Zweites Fest* . . . . .	»		4
	21	Siebentes Fest* . . . . .	»		9
	22	Achtes Fest* . . . . .	»		10
Ijar	1	. . . . .	»		19
	18	Lag - B'omer . . . . .	»	Mai	6
Sivan	1	. . . . .	»		18
	6	Wochenfest* . . . . .	»		23*
	7	Zweites Fest* . . . . .	»		24
Thamuz	1	. . . . .	»	Juni	17
	18	Fasten. Tempeleroberung . . . . .	»	Juli	4
Ab	1	. . . . .	»		16
	10	Fasten. Tempelverbrennung . . . . .	»		25
Elul	1	. . . . .	»	Aug.	15

5681 (Überzähliges Schaltjahr)

Tischri	1	Neujahrsfest* . . . . .	1920	Sept.	13
	2	Zweites Fest* . . . . .	»		14
	3	Fasten - Gedaljah . . . . .	»		15
	10	Versöhnungsfest* . . . . .	»		22
	15	Laubhüttenfest* . . . . .	»		27
	16	Zweites Fest* . . . . .	»		28
	21	Palmenfest . . . . .	»	Okt.	3
	22	Versammlung oder Laubhüttenende* . . . . .	»		4
	23	Gesetzesfreude* . . . . .	»		5
Marcheschwan	1	. . . . .	»		13
Kislev	1	. . . . .	»	Nov.	12
	25	Tempelweihe . . . . .	»	Dez.	6
Tebet	1	. . . . .	»		12
	10	Fasten. Belagerung Jerusalems . . . . .	»		21

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
♁ Aufsteigender	} Knoten
♁ Niedersteigender	

## Zeichen

des Tierkreises und der Himmelskörper

♈ Widder . . .	◦ 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**

**1920**

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit minus Wahre Zeit.	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer St. - Zt.	Halb- messer
1920						
Jan. 0.0	Mi	+ 2 <sup>m</sup> 44.27 <sup>s</sup> 28.76	18 <sup>h</sup> 38 <sup>m</sup> 11.34 <sup>s</sup> 4 25.32	-23° 9' 27.2" 4 15.9	70.99	16 15.96
1.0	Do	3 13.03 28.45	18 42 36.66 4 25.00	23 5 11.3 4 43.6	70.95	16 15.98
2.0	Fr	3 41.48 28.12	18 47 1.66 4 24.67	23 0 27.7 5 11.0	70.91	16 15.99
3.0	Sa	4 9.60 27.74	18 51 26.33 4 24.31	22 55 16.7 5 38.4	70.86	16 16.00
4.0	St	4 37.34 27.36	18 55 50.64 4 23.91	22 49 38.3 6 5.6	70.81	16 16.00
5.0	Mo	5 4.70 26.94	19 0 14.55 4 23.50	22 43 32.7 6 32.7	70.76	16 15.99
6.0	Di	+ 5 31.64 26.50	19 4 38.05 4 23.06	-22 37 0.0 6 59.5	70.70	16 15.98
7.0	Mi	5 58.14 26.04	19 9 1.11 4 22.60	22 30 0.5 7 26.2	70.64	16 15.96
8.0	Do	6 24.18 25.57	19 13 23.71 4 22.12	22 22 34.3 7 52.7	70.57	16 15.93
9.0	Fr	6 49.75 25.05	19 17 45.83 4 21.61	22 14 41.6 8 18.8	70.50	16 15.90
10.0	Sa	7 14.80 24.53	19 22 7.44 4 21.08	22 6 22.8 8 44.9	70.43	16 15.86
11.0	St	7 39.33 23.98	19 26 28.52 4 20.54	21 57 37.9 9 10.7	70.35	16 15.81
12.0	Mo	+ 8 3.31 23.40	19 30 49.06 4 19.96	-21 48 27.2 9 36.1	70.27	16 15.76
13.0	Di	8 26.71 22.81	19 35 9.02 4 19.36	21 38 51.1 10 1.3	70.19	16 15.70
14.0	Mi	8 49.52 22.18	19 39 28.38 4 18.75	21 28 49.8 10 26.3	70.11	16 15.64
15.0	Do	9 11.70 21.55	19 43 47.13 4 18.10	21 18 23.5 10 50.9	70.02	16 15.58
16.0	Fr	9 33.25 20.89	19 48 5.23 4 17.44	21 7 32.6 11 15.2	69.92	16 15.51
17.0	Sa	9 54.14 20.20	19 52 22.67 4 16.77	20 56 17.4 11 39.2	69.83	16 15.44
18.0	St	+ 10 14.34 19.51	19 56 39.44 4 16.06	-20 44 38.2 12 2.8	69.74	16 15.36
19.0	Mo	10 33.85 18.79	20 0 55.50 4 15.34	20 32 35.4 12 26.2	69.64	16 15.28
20.0	Di	10 52.64 18.05	20 5 10.84 4 14.61	20 20 9.2 12 49.1	69.54	16 15.19
21.0	Mi	11 10.69 17.29	20 9 25.45 4 13.85	20 7 20.1 13 11.7	69.44	16 15.10
22.0	Do	11 27.98 16.53	20 13 39.30 4 13.09	19 54 8.4 13 33.9	69.34	16 15.01
23.0	Fr	11 44.51 15.75	20 17 52.39 4 12.30	19 40 34.5 13 55.8	69.23	16 14.92
24.0	Sa	+ 12 0.26 14.95	20 22 4.69 4 11.50	-19 26 38.7 14 17.3	69.12	16 14.82
25.0	St	12 15.21 14.14	20 26 16.19 4 10.70	19 12 21.4 14 38.3	69.01	16 14.71
26.0	Mo	12 29.35 13.32	20 30 26.89 4 9.88	18 57 43.1 14 59.1	68.90	16 14.61
27.0	Di	12 42.67 12.50	20 34 36.77 4 9.06	18 42 44.0 15 19.4	68.79	16 14.50
28.0	Mi	12 55.17 11.67	20 38 45.83 4 8.22	18 27 24.6 15 39.3	68.68	16 14.38
29.0	Do	13 6.84 10.83	20 42 54.05 4 7.38	18 11 45.3 15 58.8	68.57	16 14.26
30.0	Fr	+ 13 17.67 9.99	20 47 1.43 4 6.55	-17 55 46.5 16 18.0	68.45	16 14.14
31.0	Sa	13 27.66 9.16	20 51 7.98 4 5.71	17 39 28.5 16 36.8	68.34	16 14.01
Febr. 1.0	St	13 36.82 8.32	20 55 13.69 4 4.88	17 22 51.7 16 55.1	68.22	16 13.88
2.0	Mo	13 45.14 7.49	20 59 18.57 4 4.05	17 5 56.6 17 13.2	68.11	16 13.74
3.0	Di	13 52.63 6.67	21 3 22.62 4 3.22	16 48 43.4 17 30.8	67.99	16 13.59
4.0	Mi	13 59.30 5.85	21 7 25.84 4 2.40	16 31 12.6 17 48.0	67.88	16 13.44
5.0	Do	+ 14 5.15 5.03	21 11 28.24 4 1.60	-16 13 24.6 18 4.8	67.76	16 13.28
6.0	Fr	14 10.18 4.25	21 15 29.84 4 0.80	15 55 19.8 18 21.3	67.65	16 13.12
7.0	Sa	14 14.43 3.45	21 19 30.64 4 0.00	15 36 58.5 18 37.3	67.54	16 12.95
8.0	St	14 17.88 2.67	21 23 30.64 3 59.22	15 18 21.2 18 53.0	67.42	16 12.78
9.0	Mo	14 20.55 1.88	21 27 29.86 3 58.44	14 59 28.2 19 8.2	67.31	16 12.60
10.0	Di	14 22.43	21 31 28.30	14 40 20.0	67.20	16 12.42

Tag	Julian. Tag	0 <sup>h</sup> mittlere Zeit Greenwich				log <i>R</i>	Unter- gang in +50° o <sup>h</sup>	Auf- gang Breite Länge
		Sternzeit	Mittleres Äquinoktium 1920.0					
			Länge	Breite				
1920	2422							
Jan. 0	324	18 <sup>h</sup> 35 <sup>m</sup> 27.06	278° 46' 24.6	61 8.9	+0.37	9.992 6709	79 4 <sup>h</sup> 7 <sup>m</sup> 19 59 <sup>m</sup>	
1	325	18 39 23.62	279 47 33.5	61 8.7	+0.23	9.992 6630	53 4 8 19 59	
2	326	18 43 20.18	280 48 42.2	61 8.4	+0.09	9.992 6577	26 4 9 19 59	
3	327	18 47 16.74	281 49 50.6	61 8.2	-0.05	9.992 6551	3 4 10 19 59	
4	328	18 51 13.29	282 50 58.8	61 8.2	-0.18	9.992 6554	32 4 11 19 58	
5	329	18 55 9.85	283 52 7.0	61 7.9	-0.30	9.992 6586	62 4 12 19 58	
6	330	18 59 6.41	284 53 14.9	61 7.9	-0.39	9.992 6648	91 4 13 19 58	
7	331	19 3 2.97	285 54 22.8	61 7.9	-0.45	9.992 6739	120 4 14 19 58	
8	332	19 6 59.52	286 55 30.7	61 7.8	-0.47	9.992 6859	147 4 16 19 57	
9	333	19 10 56.08	287 56 38.5	61 7.8	-0.47	9.992 7006	174 4 17 19 57	
10	334	19 14 52.64	288 57 46.3	61 7.8	-0.44	9.992 7180	200 4 18 19 56	
11	335	19 18 49.20	289 58 54.1	61 7.8	-0.38	9.992 7380	224 4 19 19 56	
12	336	19 22 45.75	291 0 1.9	61 7.7	-0.30	9.992 7604	247 4 21 19 55	
13	337	19 26 42.31	292 1 9.6	61 7.6	-0.20	9.992 7851	268 4 22 19 55	
14	338	19 30 38.87	293 2 17.2	61 7.5	-0.08	9.992 8119	289 4 23 19 54	
15	339	19 34 35.42	294 3 24.7	61 7.2	+0.04	9.992 8408	309 4 25 19 53	
16	340	19 38 31.98	295 4 31.9	61 6.9	+0.16	9.992 8717	327 4 26 19 52	
17	341	19 42 28.54	296 5 38.8	61 6.5	+0.27	9.992 9044	345 4 28 19 52	
18	342	19 46 25.09	297 6 45.3	61 6.1	+0.37	9.992 9389	363 4 29 19 51	
19	343	19 50 21.65	298 7 51.4	61 5.6	+0.46	9.992 9752	378 4 31 19 50	
20	344	19 54 18.20	299 8 57.0	61 5.0	+0.54	9.993 0130	395 4 32 19 49	
21	345	19 58 14.76	300 10 2.0	61 4.3	+0.59	9.993 0525	411 4 34 19 48	
22	346	20 2 11.32	301 11 6.3	61 3.4	+0.61	9.993 0936	426 4 36 19 47	
23	347	20 6 7.87	302 12 9.7	61 2.7	+0.61	9.993 1362	442 4 37 19 46	
24	348	20 10 4.43	303 13 12.4	61 1.7	+0.58	9.993 1804	458 4 39 19 45	
25	349	20 14 0.99	304 14 14.1	61 0.5	+0.51	9.993 2262	475 4 41 19 43	
26	350	20 17 57.54	305 15 14.6	60 59.5	+0.42	9.993 2737	493 4 42 19 42	
27	351	20 21 54.10	306 16 14.1	60 58.2	+0.31	9.993 3230	511 4 44 19 41	
28	352	20 25 50.65	307 17 12.3	60 57.0	+0.18	9.993 3741	531 4 45 19 40	
29	353	20 29 47.21	308 18 9.3	60 55.7	+0.04	9.993 4272	553 4 47 19 38	
30	354	20 33 43.76	309 19 5.0	60 54.5	-0.09	9.993 4825	576 4 49 19 37	
31	355	20 37 40.32	310 19 59.5	60 53.2	-0.22	9.993 5401	600 4 50 19 36	
Febr. 1	356	20 41 36.88	311 20 52.7	60 51.8	-0.33	9.993 6001	624 4 52 19 34	
2	357	20 45 33.43	312 21 44.5	60 50.7	-0.42	9.993 6625	650 4 54 19 33	
3	358	20 49 29.99	313 22 35.2	60 49.5	-0.49	9.993 7275	675 4 56 19 31	
4	359	20 53 26.54	314 23 24.7	60 48.3	-0.54	9.993 7950	701 4 57 19 30	
5	360	20 57 23.10	315 24 13.0	60 47.2	-0.55	9.993 8651	725 4 59 19 28	
6	361	21 1 19.65	316 25 0.2	60 46.2	-0.52	9.993 9376	750 5 1 19 27	
7	362	21 5 16.21	317 25 46.4	60 45.0	-0.46	9.994 0126	772 5 2 19 25	
8	363	21 9 12.76	318 26 31.4	60 44.1	-0.38	9.994 0898	793 5 4 19 23	
9	364	21 13 9.32	319 27 15.5	60 43.0	-0.28	9.994 1691	814 5 6 19 22	
10	365	21 17 5.87	320 27 58.5		-0.17	9.994 2505	5 5 8 19 20	

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit minus Wahre Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durchgangs- Dauer St.-Zt.	Halb- messer
1920						
Febr. 10.0	Di	+14 <sup>m</sup> 22.43 <sup>s</sup> 1.12	21 <sup>h</sup> 31 <sup>m</sup> 28.30 <sup>s</sup> 3 57.68	-14° 40' 20.0" 19 23.0"	67.20	16' 12.42
11.0	Mo	14 23.55 0.36	21 35 25.98 3 56.91	14 20 57.0 19 37.4	67.09	16 12.23
12.0	Di	14 23.91 0.39	21 39 22.89 3 56.16	14 1 19.6 19 51.3	66.98	16 12.04
13.0	Fr	14 23.52 1.14	21 43 19.05 3 55.42	13 41 28.3 20 5.0	66.87	16 11.85
14.0	Sa	14 22.38 1.87	21 47 14.47 3 54.68	13 21 23.3 20 18.0	66.76	16 11.65
15.0	St	14 20.51 2.60	21 51 9.15 3 53.96	13 1 5.3 20 30.8	66.66	16 11.45
16.0	Mo	+14 17.91 3.31	21 55 3.11 3 53.24	-12 40 34.5 20 43.0	66.55	16 11.25
17.0	Di	14 14.60 4.01	21 58 56.35 3 52.54	12 19 51.5 20 54.9	66.45	16 11.05
18.0	Mi	14 10.59 4.71	22 2 48.89 3 51.84	11 58 56.6 21 6.2	66.35	16 10.84
19.0	Do	14 5.88 5.40	22 6 40.73 3 51.16	11 37 50.4 21 17.3	66.25	16 10.63
20.0	Fr	14 0.48 6.07	22 10 31.89 3 50.48	11 16 33.1 21 27.8	66.15	16 10.42
21.0	Sa	13 54.41 6.74	22 14 22.37 3 49.82	10 55 5.3 21 37.9	66.05	16 10.20
22.0	St	+13 47.67 7.39	22 18 12.19 3 49.16	-10 33 27.4 21 47.5	65.96	16 9.99
23.0	Mo	13 40.28 8.03	22 22 1.35 3 48.52	10 11 39.9 21 56.9	65.86	16 9.77
24.0	Di	13 32.25 8.66	22 25 49.87 3 47.89	9 49 43.0 22 5.6	65.77	16 9.55
25.0	Mi	13 23.59 9.28	22 29 37.76 3 47.28	9 27 37.4 22 14.1	65.68	16 9.33
26.0	Do	13 14.31 9.88	22 33 25.04 3 46.67	9 5 23.3 22 22.1	65.60	16 9.11
27.0	Fr	13 4.43 10.46	22 37 11.71 3 46.10	8 43 1.2 22 29.7	65.52	16 8.88
28.0	Sa	+12 53.97 11.02	22 40 57.81 3 45.53	-8 20 31.5 22 37.0	65.44	16 8.65
29.0	St	12 42.95 11.57	22 44 43.34 3 44.98	7 57 54.5 22 43.8	65.36	16 8.42
März 1.0	Mo	12 31.38 12.09	22 48 28.32 3 44.46	7 35 10.7 22 50.3	65.28	16 8.18
2.0	Di	12 19.29 12.59	22 52 12.78 3 43.97	7 12 20.4 22 56.4	65.21	16 7.94
3.0	Mi	12 6.70 13.07	22 55 56.75 3 43.48	6 49 24.0 23 2.1	65.14	16 7.70
4.0	Do	11 53.63 13.52	22 59 40.23 3 43.02	6 26 21.9 23 7.4	65.07	16 7.45
5.0	Fr	+11 40.11 13.96	23 3 23.25 3 42.60	-6 3 14.5 23 12.5	65.01	16 7.20
6.0	Sa	11 26.15 14.37	23 7 5.85 3 42.19	5 40 2.0 23 17.1	64.95	16 6.95
7.0	St	11 11.78 14.75	23 10 48.04 3 41.79	5 16 44.9 23 21.4	64.89	16 6.70
8.0	Mo	10 57.03 15.12	23 14 29.83 3 41.44	4 53 23.5 23 25.2	64.83	16 6.44
9.0	Di	10 41.91 15.46	23 18 11.27 3 41.09	4 29 58.3 23 28.7	64.78	16 6.18
10.0	Mi	10 26.45 15.78	23 21 52.36 3 40.77	4 6 29.6 23 31.9	64.73	16 5.91
11.0	Do	+10 10.67 16.08	23 25 33.13 3 40.47	-3 42 57.7 23 34.7	64.68	16 5.64
12.0	Fr	.9 54.59 16.36	23 29 13.60 3 40.20	3 19 23.0 23 37.0	64.63	16 5.37
13.0	Sa	9 38.23 16.62	23 32 53.80 3 39.93	2 55 46.0 23 39.0	64.59	16 5.11
14.0	St	9 21.61 16.86	23 36 33.73 3 39.69	2 32 7.0 23 40.7	64.55	16 4.84
15.0	Mo	9 4.75 17.08	23 40 13.42 3 39.47	2 8 26.3 23 41.9	64.51	16 4.56
16.0	Di	8 47.67 17.28	23 43 52.89 3 39.28	1 44 44.4 23 42.8	64.48	16 4.29
17.0	Mi	+8 30.39 17.46	23 47 32.17 3 39.09	-1 21 1.6 23 43.2	64.45	16 4.02
18.0	Do	8 12.93 17.63	23 51 11.26 3 38.92	0 57 18.4 23 43.3	64.42	16 3.75
19.0	Fr	7 55.30 17.77	23 54 50.18 3 38.78	0 33 35.1 23 43.1	64.40	16 3.47
20.0	Sa	7 37.53 17.91	23 58 28.96 3 38.64	0 9 52.0 23 42.3	64.38	16 3.20
21.0	St	7 19.62 18.03	0 2 7.60 3 38.53	+0 13 50.3 23 41.3	64.36	16 2.93
22.0	Mo	7 1.59	0 5 46.13	0 37 31.6	64.34	16 2.66

Tag	Julian. Tag	0 <sup>h</sup> mittlere Zeit Greenwich				log R	Unter- gang in +50° 0 <sup>h</sup> Länge	Auf- gang Breite
		Sternzeit	Mittleres Äquinoktium 1920.0					
			Länge	Breite				
1920	2422							
Febr. 10	365	21 <sup>h</sup> 17 <sup>m</sup> 5.87	320° 27' 58.5"	60° 42.0'	-0.17	9.994 2505	832	5 <sup>h</sup> 8 <sup>m</sup> 19 20 <sup>m</sup>
11	366	21 21 2.42	321 28 40.5	60 40.8	-0.05	9.994 3337	850	5 9 19 18
12	367	21 24 58.98	322 29 21.3	60 39.6	+0.06	9.994 4187	865	5 11 19 17
13	368	21 28 55.53	323 30 0.9	60 38.5	+0.18	9.994 5052	880	5 13 19 15
14	369	21 32 52.08	324 30 39.4	60 37.4	+0.29	9.994 5932	894	5 15 19 13
15	370	21 36 48.64	325 31 16.8	60 36.0	+0.38	9.994 6826	907	5 16 19 11
16	371	21 40 45.19	326 31 52.8	60 34.7	+0.45	9.994 7733	919	5 18 19 10
17	372	21 44 41.75	327 32 27.5	60 33.3	+0.50	9.994 8652	930	5 20 19 8
18	373	21 48 38.30	328 33 0.8	60 31.9	+0.52	9.994 9582	938	5 21 19 6
19	374	21 52 34.85	329 33 32.7	60 30.3	+0.51	9.995 0520	946	5 23 19 4
20	375	21 56 31.41	330 34 3.0	60 28.7	+0.47	9.995 1466	955	5 25 19 2
21	376	22 0 27.96	331 34 31.7	60 26.9	+0.41	9.995 2421	964	5 27 19 0
22	377	22 4 24.51	332 34 58.6	60 25.1	+0.32	9.995 3385	972	5 28 18 58
23	378	22 8 21.07	333 35 23.7	60 23.3	+0.21	9.995 4357	981	5 30 18 56
24	379	22 12 17.62	334 35 47.0	60 21.3	+0.08	9.995 5338	990	5 32 18 54
25	380	22 16 14.17	335 36 8.3	60 19.3	-0.05	9.995 6328	1002	5 33 18 52
26	381	22 20 10.73	336 36 27.6	60 17.2	-0.19	9.995 7330	1013	5 35 18 50
27	382	22 24 7.28	337 36 44.8	60 15.2	-0.32	9.995 8343	1026	5 37 18 48
28	383	22 28 3.83	338 37 0.0	60 13.1	-0.43	9.995 9369	1040	5 38 18 46
29	384	22 32 0.38	339 37 13.1	60 11.1	-0.53	9.996 0409	1055	5 40 18 44
März 1	385	22 35 56.94	340 37 24.2	60 9.0	-0.60	9.996 1464	1071	5 42 18 42
2	386	22 39 53.49	341 37 33.2	60 7.1	-0.63	9.996 2535	1087	5 43 18 40
3	387	22 43 50.04	342 37 40.3	60 5.2	-0.64	9.996 3622	1104	5 45 18 38
4	388	22 47 46.60	343 37 45.5	60 3.2	-0.62	9.996 4726	1120	5 47 18 36
5	389	22 51 43.15	344 37 48.7	60 1.4	-0.57	9.996 5846	1136	5 48 18 34
6	390	22 55 39.70	345 37 50.1	59 59.7	-0.49	9.996 6982	1151	5 50 18 32
7	391	22 59 36.25	346 37 49.8	59 58.0	-0.38	9.996 8133	1165	5 52 18 30
8	392	23 3 32.81	347 37 47.8	59 56.2	-0.27	9.996 9298	1177	5 53 18 28
9	393	23 7 29.36	348 37 44.0	59 54.4	-0.15	9.997 0475	1189	5 55 18 25
10	394	23 11 25.91	349 37 38.4	59 52.8	-0.03	9.997 1664	1199	5 56 18 23
11	395	23 15 22.46	350 37 31.2	59 51.1	+0.09	9.997 2863	1208	5 58 18 21
12	396	23 19 19.02	351 37 22.3	59 49.4	+0.19	9.997 4071	1215	6 0 18 19
13	397	23 23 15.57	352 37 11.7	59 47.7	+0.28	9.997 5286	1221	6 1 18 17
14	398	23 27 12.12	353 36 59.4	59 46.0	+0.36	9.997 6507	1226	6 3 18 15
15	399	23 31 8.67	354 36 45.4	59 44.2	+0.42	9.997 7733	1229	6 5 18 12
16	400	23 35 5.22	355 36 29.6	59 42.4	+0.45	9.997 8962	1231	6 6 18 10
17	401	23 39 1.78	356 36 12.0	59 40.6	+0.44	9.998 0193	1232	6 8 18 8
18	402	23 42 58.33	357 35 52.6	59 38.7	+0.40	9.998 1425	1231	6 9 18 6
19	403	23 46 54.88	358 35 31.3	59 36.7	+0.34	9.998 2656	1229	6 11 18 4
20	404	23 50 51.43	359 35 8.0	59 34.8	+0.25	9.998 3885	1228	6 13 18 2
21	405	23 54 47.98	0 34 42.8	59 32.6	+0.15	9.998 5113	1225	6 14 1 59
22	406	23 58 44.54	1 34 15.4		+0.03	9.998 6338		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
1920									
März 22.0	Mo	+7 <sup>m</sup> 1.59	18.12	0 <sup>h</sup> 5 <sup>m</sup> 46.13	3 38.43	+ 0 <sup>o</sup> 37' 31.6"	23 39.9	64.34	16 2.66
23.0	Di	6 43.47	18.21	0 9 24.56	3 38.34	1 1 11.5	23 38.1	64.33	16 2.39
24.0	Mi	6 25.26	18.27	0 13 2.90	3 38.28	1 24 49.6	23 35.8	64.32	16 2.11
25.0	Do	6 6.99	18.32	0 16 41.18	3 38.23	1 48 25.4	23 33.3	64.32	16 1.84
26.0	Fr	5 48.67	18.36	0 20 19.41	3 38.20	2 11 58.7	23 30.4	64.32	16 1.57
27.0	Sa	5 30.31	18.36	0 23 57.61	3 38.18	2 35 29.1	23 27.1	64.32	16 1.30
28.0	St	+5 11.95	18.36	0 27 35.79	3 38.20	+ 2 58 56.2	23 23.5	64.32	16 1.04
29.0	Mo	4 53.59	18.32	0 31 13.99	3 38.23	3 22 19.7	23 19.6	64.33	16 0.77
30.0	Di	4 35.27	18.27	0 34 52.22	3 38.28	3 45 39.3	23 15.4	64.34	16 0.49
31.0	Mi	4 17.00	18.19	0 38 30.50	3 38.36	4 8 54.7	23 10.7	64.35	16 0.21
April 1.0	Do	3 58.81	18.10	0 42 8.86	3 38.46	4 32 5.4	23 5.8	64.36	15 59.94
2.0	Fr	3 40.71	17.97	0 45 47.32	3 38.58	4 55 11.2	23 0.5	64.38	15 59.67
3.0	Sa	+3 22.74	17.83	0 49 25.90	3 38.73	+ 5 18 11.7	22 55.0	64.40	15 59.39
4.0	St	3 4.91	17.66	0 53 4.63	3 38.89	5 41 6.7	22 49.1	64.42	15 59.12
5.0	Mo	2 47.25	17.47	0 56 43.52	3 39.08	6 3 55.8	22 42.8	64.45	15 58.84
6.0	Di	2 29.78	17.26	1 0 22.60	3 39.29	6 26 38.6	22 36.3	64.48	15 58.56
7.0	Mi	2 12.52	17.03	1 4 1.89	3 39.52	6 49 14.9	22 29.3	64.51	15 58.29
8.0	Do	1 55.49	16.78	1 7 41.41	3 39.78	7 11 44.2	22 22.2	64.54	15 58.00
9.0	Fr	+1 38.71	16.51	1 11 21.19	3 40.04	+ 7 34 6.4	22 14.5	64.57	15 57.72
10.0	Sa	1 22.20	16.22	1 15 1.23	3 40.33	7 56 20.9	22 6.6	64.61	15 57.44
11.0	St	1 5.98	15.92	1 18 41.56	3 40.63	8 18 27.5	21 58.4	64.65	15 57.17
12.0	Mo	0 50.06	15.60	1 22 22.19	3 40.96	8 40 25.9	21 49.8	64.70	15 56.89
13.0	Di	0 34.46	15.26	1 26 3.15	3 41.29	9 2 15.7	21 40.8	64.74	15 56.61
14.0	Mi	0 19.20	14.90	1 29 44.44	3 41.65	9 23 56.5	21 31.6	64.79	15 56.34
15.0	Do	+0 4.30	14.54	1 33 26.09	3 42.01	+ 9 45 28.1	21 21.9	64.84	15 56.07
16.0	Fr	-0 10.24	14.16	1 37 8.10	3 42.39	10 6 50.0	21 11.9	64.89	15 55.80
17.0	Sa	0 24.40	13.78	1 40 50.49	3 42.78	10 28 1.9	21 1.6	64.95	15 55.53
18.0	St	0 38.18	13.37	1 44 33.27	3 43.18	10 49 3.5	20 50.9	65.01	15 55.27
19.0	Mo	0 51.55	12.97	1 48 16.45	3 43.59	11 9 54.4	20 39.9	65.07	15 55.01
20.0	Di	1 4.52	12.55	1 52 0.04	3 44.00	11 30 34.3	20 28.4	65.13	15 54.75
21.0	Mi	-1 17.07	12.13	1 55 44.04	3 44.42	+11 51 2.7	20 16.7	65.19	15 54.49
22.0	Do	1 29.20	11.69	1 59 28.46	3 44.86	12 11 19.4	20 4.7	65.25	15 54.24
23.0	Fr	1 40.89	11.26	2 3 13.32	3 45.30	12 31 24.1	19 52.2	65.32	15 53.99
24.0	Sa	1 52.15	10.80	2 6 58.62	3 45.76	12 51 16.3	19 39.5	65.39	15 53.74
25.0	St	2 2.95	10.34	2 10 44.38	3 46.21	13 10 55.8	19 26.5	65.46	15 53.49
26.0	Mo	2 13.29	9.86	2 14 30.59	3 46.69	13 30 22.3	19 13.0	65.53	15 53.25
27.0	Di	-2 23.15	9.38	2 18 17.28	3 47.18	+13 49 35.3	18 59.4	65.61	15 53.01
28.0	Mi	2 32.53	8.88	2 22 4.46	3 47.67	14 8 34.7	18 45.4	65.68	15 52.77
29.0	Do	2 41.41	8.38	2 25 52.13	3 48.18	14 27 20.1	18 31.1	65.75	15 52.54
30.0	Fr	2 49.79	7.85	2 29 40.31	3 48.70	14 45 51.2	18 16.4	65.83	15 52.30
Mai 1.0	Sa	2 57.64	7.32	2 33 29.01	3 49.23	15 4 7.6	18 1.6	65.91	15 52.06
2.0	St	3 4.96		2 37 18.24		15 22 9.2		65.99	15 51.83

Tag	Julian. Tag	O <sup>h</sup> mittlere Zeit Greenwich				log R	Unter-	Auf-
		Sternzeit	Mittleres Äquinoktium 1920.0		in		gang	gang
			Länge	Breite			+50°	Breite
						o <sup>h</sup>	Länge	
1920	2422							
März 22	406	23 <sup>h</sup> 58 <sup>m</sup> 44.54	1° 34' 15.4"	59° 30.4'	+0.03	9.998 6338	6 <sup>h</sup> 16 <sup>m</sup> 17 <sup>h</sup> 57 <sup>m</sup>	
23	407	0 2 41.09	2 33 45.8	59 28.2	-0.11	9.998 7560	6 17 17 55	
24	408	0 6 37.64	3 33 14.0	59 25.9	-0.25	9.998 8780	6 19 17 53	
25	409	0 10 34.19	4 32 39.9	59 23.5	-0.39	9.998 9999	6 21 17 51	
26	410	0 14 30.74	5 32 3.4	59 21.2	-0.51	9.999 1218	6 22 17 49	
27	411	0 18 27.29	6 31 24.6	59 18.9	-0.61	9.999 2437	6 24 17 46	
28	412	0 22 23.85	7 30 43.5	59 16.5	-0.69	9.999 3659	6 25 17 44	
29	413	0 26 20.40	8 30 0.0	59 14.2	-0.74	9.999 4883	6 27 17 42	
30	414	0 30 16.95	9 29 14.2	59 11.8	-0.75	9.999 6111	6 28 17 40	
31	415	0 34 13.50	10 28 26.0	59 9.7	-0.72	9.999 7344	6 30 17 38	
April 1	416	0 38 10.05	11 27 35.7	59 7.5	-0.67	9.999 8582	6 31 17 36	
2	417	0 42 6.61	12 26 43.2	59 5.4	-0.60	9.999 9825	6 33 17 33	
3	418	0 46 3.16	13 25 48.6	59 3.4	-0.50	0.000 1073	6 35 17 31	
4	419	0 49 59.71	14 24 52.0	59 1.4	-0.38	0.000 2326	6 36 17 29	
5	420	0 53 56.26	15 23 53.4	58 59.4	-0.26	0.000 3583	6 38 17 27	
6	421	0 57 52.82	16 22 52.8	58 57.6	-0.14	0.000 4843	6 39 17 25	
7	422	I 1 49.37	17 21 50.4	58 55.7	-0.01	0.000 6105	6 41 17 23	
8	423	I 5 45.92	18 20 46.1	58 53.9	+0.10	0.000 7369	6 42 17 20	
9	424	I 9 42.47	19 19 40.0	58 52.1	+0.20	0.000 8632	6 44 17 18	
10	425	I 13 39.03	20 18 32.1	58 50.4	+0.28	0.000 9895	6 45 17 16	
11	426	I 17 35.58	21 17 22.5	58 48.7	+0.35	0.001 1155	6 47 17 14	
12	427	I 21 32.13	22 16 11.2	58 46.9	+0.39	0.001 2411	6 49 17 12	
13	428	I 25 28.68	23 14 58.1	58 45.2	+0.40	0.001 3662	6 50 17 10	
14	429	I 29 25.24	24 13 43.3	58 43.5	+0.37	0.001 4906	6 52 17 8	
15	430	I 33 21.79	25 12 26.8	58 41.7	+0.32	0.001 6141	6 53 17 6	
16	431	I 37 18.34	26 11 8.5	58 40.0	+0.24	0.001 7367	6 55 17 4	
17	432	I 41 14.90	27 9 48.5	58 38.1	+0.14	0.001 8582	6 56 17 2	
18	433	I 45 11.45	28 8 26.6	58 36.1	0.00	0.001 9785	6 58 17 0	
19	434	I 49 8.00	29 7 2.7	58 34.3	-0.14	0.002 0974	7 0 16 58	
20	435	I 53 4.56	30 5 37.0	58 32.1	-0.28	0.002 2150	7 1 16 56	
21	436	I 57 1.11	31 4 9.1	58 30.1	-0.42	0.002 3313	7 3 16 54	
22	437	2 0 57.66	32 2 39.2	58 28.0	-0.56	0.002 4463	7 4 16 52	
23	438	2 4 54.22	33 1 7.2	58 25.8	-0.67	0.002 5601	7 6 16 50	
24	439	2 8 50.77	33 59 33.0	58 23.6	-0.75	0.002 6727	7 7 16 48	
25	440	2 12 47.32	34 57 56.6	58 21.5	-0.81	0.002 7844	7 9 16 46	
26	441	2 16 43.88	35 56 18.1	58 19.4	-0.82	0.002 8952	7 10 16 44	
27	442	2 20 40.43	36 54 37.5	58 17.3	-0.81	0.003 0052	7 12 16 42	
28	443	2 24 36.98	37 52 54.8	58 15.2	-0.77	0.003 1146	7 14 16 41	
29	444	2 28 33.54	38 51 10.0	58 13.3	-0.71	0.003 2233	7 15 16 39	
30	445	2 32 30.09	39 49 23.3	58 11.4	-0.61	0.003 3315	7 17 16 37	
Mai 1	446	2 36 26.65	40 47 34.7	58 9.6	-0.49	0.003 4392	7 18 16 35	
2	447	2 40 23.20	41 45 44.3		-0.37	0.003 5463	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
1920										
Mai	2.0	St	-3 <sup>m</sup> 4.96 <sup>s</sup>	6.78	2 37 <sup>h</sup> 18.24 <sup>m</sup>	3 49.77 <sup>s</sup>	+15° 22' 9.2"	17 46.3	65.99	15 51.83
	3.0	Mo	3 11.74	6.23	2 41 8.01	3 50.32	15 39 55.5	17 30.8	66.07	15 51.59
	4.0	Di	3 17.97	5.68	2 44 58.33	3 50.89	15 57 26.3	17 15.0	66.15	15 51.36
	5.0	Mi	3 23.65	5.10	2 48 49.22	3 51.45	16 14 41.3	16 58.9	66.23	15 51.13
	6.0	Do	3 28.75	4.53	2 52 40.67	3 52.03	16 31 40.2	16 42.4	66.31	15 50.90
	7.0	Fr	3 33.28	3.94	2 56 32.70	3 52.61	16 48 22.6	16 25.7	66.39	15 50.67
	8.0	Sa	-3 37.22	3.36	3 0 25.31	3 53.19	+17 4 48.3	16 8.7	66.47	15 50.44
	9.0	St	3 40.58	2.77	3 4 18.50	3 53.79	17 20 57.0	15 51.4	66.55	15 50.23
	10.0	Mo	3 43.35	2.18	3 8 12.29	3 54.38	17 36 48.4	15 33.8	66.63	15 50.01
	11.0	Di	3 45.53	1.58	3 12 6.67	3 54.97	17 52 22.2	15 15.8	66.71	15 49.79
	12.0	Mi	3 47.11	0.99	3 16 1.64	3 55.56	18 7 38.0	14 57.6	66.80	15 49.57
	13.0	Do	3 48.10	0.40	3 19 57.20	3 56.16	18 22 35.6	14 39.2	66.88	15 49.36
	14.0	Fr	-3 48.50	0.19	3 23 53.36	3 56.74	+18 37 14.8	14 20.3	66.96	15 49.15
	15.0	Sa	3 48.31	0.77	3 27 50.10	3 57.33	18 51 35.1	14 1.3	67.04	15 48.94
	16.0	St	3 47.54	1.35	3 31 47.43	3 57.90	19 5 36.4	13 41.9	67.12	15 48.75
	17.0	Mo	3 46.19	1.91	3 35 45.33	3 58.47	19 19 18.3	13 22.3	67.20	15 48.55
	18.0	Di	3 44.28	2.46	3 39 43.80	3 59.02	19 32 40.6	13 2.4	67.28	15 48.36
	19.0	Mi	3 41.82	3.01	3 43 42.82	3 59.57	19 45 43.0	12 42.2	67.36	15 48.18
	20.0	Do	-3 38.81	3.54	3 47 42.39	4 0.09	+19 58 25.2	12 21.7	67.44	15 47.99
	21.0	Fr	3 35.27	4.06	3 51 42.48	4 0.62	20 10 46.9	12 1.1	67.51	15 47.82
	22.0	Sa	3 31.21	4.57	3 55 43.10	4 1.12	20 22 48.0	11 40.1	67.59	15 47.64
	23.0	St	3 26.64	5.07	3 59 44.22	4 1.62	20 34 28.1	11 18.9	67.66	15 47.48
	24.0	Mo	3 21.57	5.55	4 3 45.84	4 2.11	20 45 47.0	10 57.5	67.73	15 47.32
	25.0	Di	3 16.02	6.03	4 7 47.95	4 2.59	20 56 44.5	10 35.9	67.80	15 47.16
	26.0	Mi	-3 9.99	6.49	4 11 50.54	4 3.05	+21 7 20.4	10 14.0	67.87	15 47.00
	27.0	Do	3 3.50	6.96	4 15 53.59	4 3.51	21 17 34.4	9 51.9	67.94	15 46.84
	28.0	Fr	2 56.54	7.40	4 19 57.10	4 3.95	21 27 26.3	9 29.7	68.00	15 46.69
	29.0	Sa	2 49.14	7.83	4 24 1.05	4 4.39	21 36 56.0	9 7.2	68.07	15 46.55
	30.0	St	2 41.31	8.26	4 28 5.44	4 4.82	21 46 3.2	8 44.5	68.13	15 46.40
	31.0	Mo	2 33.05	8.68	4 32 10.26	4 5.23	21 54 47.7	8 21.7	68.19	15 46.27
Juni	1.0	Di	-2 24.37	9.07	4 36 15.49	4 5.63	+22 3 9.4	7 58.7	68.25	15 46.13
	2.0	Mi	2 15.30	9.46	4 40 21.12	4 6.02	22 11 8.1	7 35.5	68.30	15 45.99
	3.0	Do	2 5.84	9.83	4 44 27.14	4 6.39	22 18 43.6	7 12.2	68.35	15 45.85
	4.0	Fr	I 56.01	10.19	4 48 33.53	4 6.75	22 25 55.8	6 48.6	68.40	15 45.72
	5.0	Sa	I 45.82	10.54	4 52 40.28	4 7.09	22 32 44.4	6 24.9	68.45	15 45.59
	6.0	St	I 35.28	10.86	4 56 47.37	4 7.42	22 39 9.3	6 1.2	68.49	15 45.47
	7.0	Mo	-I 24.42	11.17	5 0 54.79	4 7.73	+22 45 10.5	5 37.2	68.53	15 45.35
	8.0	Di	I 13.25	11.46	5 5 2.52	4 8.02	22 50 47.7	5 13.2	68.57	15 45.23
	9.0	Mi	I 1.79	11.74	5 9 10.54	4 8.29	22 56 0.9	4 49.0	68.61	15 45.12
	10.0	Do	0 50.05	11.98	5 13 18.83	4 8.54	23 0 49.9	4 24.7	68.65	15 45.01
	11.0	Fr	0 38.07	12.22	5 17 27.37	4 8.77	23 5 14.6	4 0.4	68.68	15 44.91
	12.0	Sa	0 25.85		5 21 36.14		23 9 15.0		68.71	15 44.80



Tag	Julian. Tag	0 <sup>h</sup> mittlere Zeit Greenwich					log R	Unter-	Auf-			
		Sternzeit		Mittleres Äquinoktium 1920.0		in +50° 0 <sup>h</sup> Länge		gang	gang			
		h	m	°	'		"	h	m			
1920	2422			°	'	"						
Mai	2	447	2 40	23.20	41 45	44.3	58 7.8	-0.37	0.003 5463	1066	7 20	16 33
	3	448	2 44	19.76	42 43	52.1	58 6.1	-0.24	0.003 6529	1060	7 21	16 32
	4	449	2 48	16.31	43 41	58.2	58 4.5	-0.11	0.003 7589	1054	7 23	16 30
	5	450	2 52	12.86	44 40	2.7	58 3.0	+0.01	0.003 8643	1047	7 24	16 28
	6	451	2 56	9.42	45 38	5.7	58 1.6	+0.12	0.003 9690	1039	7 26	16 27
	7	452	3 0	5.97	46 36	7.3	58 0.1	+0.21	0.004 0729	1031	7 27	16 25
	8	453	3 4	2.53	47 34	7.4	57 58.6	+0.28	0.004 1760	1020	7 29	16 23
	9	454	3 7	59.08	48 32	6.0	57 57.3	+0.33	0.004 2780	1010	7 30	16 22
	10	455	3 11	55.64	49 30	3.3	57 56.0	+0.34	0.004 3790	997	7 32	16 20
	11	456	3 15	52.19	50 27	59.3	57 54.8	+0.33	0.004 4787	984	7 33	16 19
	12	457	3 19	48.75	51 25	54.1	57 53.6	+0.28	0.004 5771	969	7 35	16 17
	13	458	3 23	45.30	52 23	47.7	57 52.2	+0.20	0.004 6740	953	7 36	16 16
	14	459	3 27	41.86	53 21	39.9	57 51.1	+0.11	0.004 7693	934	7 38	16 15
	15	460	3 31	38.42	54 19	31.0	57 49.9	0.00	0.004 8627	914	7 39	16 13
	16	461	3 35	34.97	55 17	20.9	57 48.5	-0.14	0.004 9541	894	7 40	16 12
	17	462	3 39	31.52	56 15	9.4	57 47.2	-0.29	0.005 0435	872	7 42	16 10
	18	463	3 43	28.08	57 12	56.6	57 45.7	-0.43	0.005 1307	851	7 43	16 9
	19	464	3 47	24.64	58 10	42.3	57 44.3	-0.56	0.005 2158	829	7 44	16 8
	20	465	3 51	21.19	59 8	26.6	57 42.8	-0.67	0.005 2987	807	7 46	16 7
	21	466	3 55	17.75	60 6	9.4	57 41.3	-0.77	0.005 3794	787	7 47	16 5
	22	467	3 59	14.30	61 3	50.7	57 39.8	-0.83	0.005 4581	767	7 48	16 4
	23	468	4 3	10.86	62 1	30.5	57 38.1	-0.86	0.005 5348	750	7 50	16 3
	24	469	4 7	7.42	62 59	8.6	57 36.7	-0.85	0.005 6098	732	7 51	16 2
	25	470	4 11	3.97	63 56	45.3	57 35.1	-0.82	0.005 6830	717	7 52	16 1
	26	471	4 15	0.53	64 54	20.4	57 33.8	-0.75	0.005 7547	703	7 53	16 0
	27	472	4 18	57.08	65 51	54.2	57 32.3	-0.66	0.005 8250	688	7 55	15 59
	28	473	4 22	53.64	66 49	26.5	57 31.1	-0.54	0.005 8938	675	7 56	15 58
	29	474	4 26	50.20	67 46	57.6	57 29.7	-0.42	0.005 9613	662	7 57	15 57
	30	475	4 30	46.75	68 44	27.3	57 28.6	-0.30	0.006 0275	650	7 58	15 57
	31	476	4 34	43.31	69 41	55.9	57 27.6	-0.17	0.006 0925	637	7 59	15 56
Juni	1	477	4 38	39.87	70 39	23.5	57 26.5	-0.04	0.006 1562	624	8 0	15 55
	2	478	4 42	36.42	71 36	50.0	57 25.6	+0.08	0.006 2186	612	8 1	15 54
	3	479	4 46	32.98	72 34	15.6	57 24.7	+0.18	0.006 2798	599	8 2	15 54
	4	480	4 50	29.54	73 31	40.3	57 23.9	+0.25	0.006 3397	585	8 3	15 53
	5	481	4 54	26.09	74 29	4.2	57 23.3	+0.30	0.006 3982	570	8 4	15 53
	6	482	4 58	22.65	75 26	27.5	57 22.5	+0.33	0.006 4552	556	8 5	15 52
	7	483	5 2	19.21	76 23	50.0	57 22.0	+0.33	0.006 5108	539	8 6	15 52
	8	484	5 6	15.76	77 21	12.0	57 21.4	+0.30	0.006 5647	522	8 6	15 51
	9	485	5 10	12.32	78 18	33.4	57 21.0	+0.23	0.006 6169	504	8 7	15 51
	10	486	5 14	8.88	79 15	54.4	57 20.5	+0.15	0.006 6673	483	8 8	15 50
	11	487	5 18	5.44	80 13	14.9	57 20.0	+0.04	0.006 7156	462	8 9	15 50
	12	488	5 22	1.99	81 10	34.9		-0.09	0.006 7618		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				
1920													
Juni	12.0	Sa	— 0	25.85	12.42	5 21	36.14	4 8.98	+ 23 9	15.0	3 35.9	68.71	15 44.80
	13.0	St	0	13.43	12.60	5 25	45.12	4 9.16	23 12	50.9	3 11.3	68.73	15 44.71
	14.0	Mo	— 0	0.83	12.75	5 29	54.28	4 9.31	23 16	2.2	2 46.7	68.75	15 44.62
	15.0	Di	+ 0	11.92	12.88	5 34	3.59	4 9.43	23 18	48.9	2 22.1	68.77	15 44.53
	16.0	Mi	0	24.80	12.97	5 38	13.02	4 9.53	23 21	11.0	1 57.3	68.78	15 44.45
	17.0	Do	0	37.77	13.04	5 42	22.55	4 9.60	23 23	8.3	1 32.6	68.79	15 44.38
	18.0	Fr	+ 0	50.81	13.08	5 46	32.15	4 9.63	+ 23 24	40.9	1 7.9	68.80	15 44.32
	19.0	Sa	1	3.89	13.09	5 50	41.78	4 9.64	23 25	48.8	0 43.1	68.81	15 44.26
	20.0	St	1	16.98	13.07	5 54	51.42	4 9.63	23 26	31.9	0 18.3	68.81	15 44.20
	21.0	Mo	1	30.05	13.02	5 59	1.05	4 9.58	23 26	50.2	0 6.5	68.81	15 44.15
	22.0	Di	1	43.07	12.96	6 3	10.63	4 9.52	23 26	43.7	0 31.3	68.80	15 44.10
	23.0	Mi	1	56.03	12.87	6 7	20.15	4 9.42	23 26	12.4	0 56.0	68.79	15 44.06
	24.0	Do	+ 2	8.90	12.75	6 11	29.57	4 9.31	+ 23 25	16.4	1 20.7	68.78	15 44.02
	25.0	Fr	2	21.65	12.62	6 15	38.88	4 9.18	23 23	55.7	1 45.4	68.77	15 43.99
	26.0	Sa	2	34.27	12.47	6 19	48.06	4 9.02	23 22	10.3	2 10.0	68.75	15 43.96
	27.0	St	2	46.74	12.29	6 23	57.08	4 8.85	23 20	0.3	2 34.6	68.73	15 43.93
	28.0	Mo	2	59.03	12.09	6 28	5.93	4 8.65	23 17	25.7	2 59.1	68.70	15 43.91
	29.0	Di	3	11.12	11.88	6 32	14.58	4 8.44	23 14	26.6	3 23.6	68.67	15 43.89
	30.0	Mi	+ 3	23.00	11.65	6 36	23.02	4 8.21	+ 23 11	3.0	3 47.9	68.64	15 43.87
Juli	1.0	Do	3	34.65	11.40	6 40	31.23	4 7.95	23 7	15.1	4 12.1	68.61	15 43.86
	2.0	Fr	3	46.05	11.12	6 44	39.18	4 7.68	23 3	3.0	4 36.3	68.58	15 43.85
	3.0	Sa	3	57.17	10.84	6 48	46.86	4 7.40	22 58	26.7	5 0.4	68.54	15 43.85
	4.0	St	4	8.01	10.54	6 52	54.26	4 7.09	22 53	26.3	5 24.3	68.50	15 43.85
	5.0	Mo	4	18.55	10.21	6 57	1.35	4 6.77	22 48	2.0	5 48.1	68.45	15 43.85
	6.0	Di	+ 4	28.76	9.88	7 1	8.12	4 6.44	+ 22 42	13.9	6 11.8	68.40	15 43.85
	7.0	Mi	4	38.64	9.52	7 5	14.56	4 6.08	22 36	2.1	6 35.3	68.35	15 43.86
	8.0	Do	4	48.16	9.16	7 9	20.64	4 5.71	22 29	26.8	6 58.7	68.30	15 43.87
	9.0	Fr	4	57.32	8.77	7 13	26.35	4 5.32	22 22	28.1	7 21.9	68.24	15 43.89
	10.0	Sa	5	6.09	8.36	7 17	31.67	4 4.92	22 15	6.2	7 45.0	68.18	15 43.91
	11.0	St	5	14.45	7.94	7 21	36.59	4 4.50	22 7	21.2	8 7.8	68.12	15 43.94
	12.0	Mo	+ 5	22.39	7.50	7 25	41.09	4 4.05	+ 21 59	13.4	8 30.5	68.06	15 43.97
	13.0	Di	5	29.89	7.04	7 29	45.14	4 3.60	21 50	42.9	8 53.0	67.99	15 44.01
	14.0	Mi	5	36.93	6.56	7 33	48.74	4 3.12	21 41	49.9	9 15.2	67.93	15 44.05
	15.0	Do	5	43.49	6.07	7 37	51.86	4 2.62	21 32	34.7	9 37.1	67.86	15 44.10
	16.0	Fr	5	49.56	5.55	7 41	54.48	4 2.11	21 22	57.6	9 59.0	67.78	15 44.16
	17.0	Sa	5	55.11	5.01	7 45	56.59	4 1.57	21 12	58.6	10 20.5	67.71	15 44.22
	18.0	St	+ 6	0.12	4.47	7 49	58.16	4 1.03	+ 21 2	38.1	10 41.9	67.64	15 44.28
	19.0	Mo	6	4.59	3.91	7 53	59.19	4 0.46	20 51	56.2	11 2.9	67.56	15 44.35
	20.0	Di	6	8.50	3.34	7 57	59.65	3 59.89	20 40	53.3	11 23.7	67.48	15 44.43
	21.0	Mi	6	11.84	2.75	8 1	59.54	3 59.31	20 29	29.6	11 44.3	67.40	15 44.50
	22.0	Do	6	14.59	2.16	8 5	58.85	3 58.72	20 17	45.3	12 4.6	67.32	15 44.59
	23.0	Fr	6	16.75		8 9	57.57		20 5	40.7		67.24	15 44.68

Tag	Julian. Tag	0 <sup>h</sup> mittlere Zeit Greenwich				log R	Unter-	Auf-
		Sternzeit	Mittleres Äquinoktium 1920.0		in +50°		Breite	
	Länge		Breite	o <sup>h</sup>		Länge		
1920	2422							
Juni 12	488	5 <sup>h</sup> 22 <sup>m</sup> 1.99	81° 10' 34.9"	57° 19.7'	-0.09	0.006 7618	8 <sup>h</sup> 9 <sup>m</sup> 15 <sup>h</sup> 50 <sup>m</sup>	
13	489	5 25 58.55	82 7 54.6	57 19.3	-0.22	0.006 8058	8 10 15 50	
14	490	5 29 55.11	83 5 13.9	57 18.7	-0.35	0.006 8473	8 10 15 50	
15	491	5 33 51.66	84 2 32.6	57 18.4	-0.48	0.006 8862	8 11 15 50	
16	492	5 37 48.22	84 59 51.0	57 17.7	-0.60	0.006 9225	8 11 15 50	
17	493	5 41 44.78	85 57 8.7	57 17.1	-0.70	0.006 9562	8 12 15 50	
18	494	5 45 41.33	86 54 25.8	57 16.6	-0.77	0.006 9872	8 12 15 50	
19	495	5 49 37.89	87 51 42.4	57 15.7	-0.81	0.007 0156	8 12 15 50	
20	496	5 53 34.45	88 48 58.1	57 15.1	-0.81	0.007 0415	8 13 15 50	
21	497	5 57 31.00	89 46 13.2	57 14.6	-0.78	0.007 0650	8 13 15 50	
22	498	6 1 27.56	90 43 27.8	57 13.7	-0.73	0.007 0863	8 13 15 51	
23	499	6 5 24.12	91 40 41.5	57 13.2	-0.65	0.007 1055	8 13 15 51	
24	500	6 9 20.68	92 37 54.7	57 12.7	-0.54	0.007 1227	8 13 15 51	
25	501	6 13 17.23	93 35 7.4	57 12.1	-0.42	0.007 1380	8 13 15 52	
26	502	6 17 13.79	94 32 19.5	57 11.6	-0.29	0.007 1515	8 13 15 52	
27	503	6 21 10.35	95 29 31.1	57 11.4	-0.16	0.007 1633	8 13 15 53	
28	504	6 25 6.90	96 26 42.5	57 10.9	-0.04	0.007 1735	8 13 15 53	
29	505	6 29 3.46	97 23 53.4	57 10.7	+0.07	0.007 1821	8 13 15 54	
30	506	6 33 0.02	98 21 4.1	57 10.7	+0.18	0.007 1892	8 13 15 54	
Juli 1	507	6 36 56.58	99 18 14.8	57 10.6	+0.26	0.007 1947	8 13 15 55	
2	508	6 40 53.13	100 15 25.4	57 10.5	+0.32	0.007 1987	8 12 15 56	
3	509	6 44 49.69	101 12 35.9	57 10.7	+0.35	0.007 2012	8 12 15 56	
4	510	6 48 46.25	102 9 46.6	57 10.8	+0.36	0.007 2021	8 12 15 57	
5	511	6 52 42.80	103 6 57.4	57 11.1	+0.34	0.007 2014	8 11 15 58	
6	512	6 56 39.36	104 4 8.5	57 11.4	+0.29	0.007 1991	8 11 15 59	
7	513	7 0 35.92	105 1 19.9	57 11.8	+0.22	0.007 1951	8 10 16 0	
8	514	7 4 32.48	105 58 31.7	57 12.2	+0.12	0.007 1892	8 10 16 1	
9	515	7 8 29.03	106 55 43.9	57 12.7	+0.01	0.007 1813	8 9 16 1	
10	516	7 12 25.59	107 52 56.6	57 13.3	-0.12	0.007 1714	8 8 16 2	
11	517	7 16 22.14	108 50 9.9	57 13.7	-0.25	0.007 1593	8 8 16 3	
12	518	7 20 18.70	109 47 23.6	57 14.3	-0.37	0.007 1448	8 7 16 4	
13	519	7 24 15.26	110 44 37.9	57 14.7	-0.49	0.007 1279	8 6 16 6	
14	520	7 28 11.81	111 41 52.6	57 15.2	-0.59	0.007 1083	8 5 16 7	
15	521	7 32 8.37	112 39 7.8	57 15.7	-0.66	0.007 0861	8 4 16 8	
16	522	7 36 4.93	113 36 23.5	57 16.0	-0.70	0.007 0612	8 3 16 9	
17	523	7 40 1.48	114 33 39.5	57 16.3	-0.71	0.007 0336	8 2 16 10	
18	524	7 43 58.04	115 30 55.8	57 16.5	-0.68	0.007 0034	8 1 16 11	
19	525	7 47 54.59	116 28 12.3	57 16.9	-0.62	0.006 9707	8 0 16 12	
20	526	7 51 51.15	117 25 29.2	57 17.1	-0.54	0.006 9355	7 59 16 14	
21	527	7 55 47.71	118 22 46.3	57 17.4	-0.44	0.006 8981	7 58 16 15	
22	528	7 59 44.26	119 20 3.7	57 17.8	-0.32	0.006 8586	7 57 16 16	
23	529	8 3 40.82	120 17 21.5		-0.19	0.006 8172	7 56 16 17	

Mittlere Zeit Greenwich		Wochentag	Zeitgleichung Mittlere Zeit minus Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durch- gangs- Dauer St. - Zt.	Halb- messer
1920										
Juli	23.0	Fr	+6 <sup>m</sup> 16.75	1.57	8 <sup>h</sup> 9 <sup>m</sup> 57.57	3 <sup>s</sup> 58.13	+20° 5' 40.7"	12 24.7	67.24	15 44.68
	24.0	Sa	6 18.32	0.97	8 13 55.70	3 57.52	19 53 16.0	12 44.5	67.16	15 44.78
	25.0	St	6 19.29	0.36	8 17 53.22	3 56.91	19 40 31.5	13 4.1	67.08	15 44.88
	26.0	Mo	6 19.65	0.25	8 21 50.13	3 56.31	19 27 27.4	13 23.5	66.99	15 44.98
	27.0	Di	6 19.40	0.85	8 25 46.44	3 55.70	19 14 3.9	13 42.5	66.91	15 45.09
	28.0	Mi	6 18.55	1.47	8 29 42.14	3 55.09	19 0 21.4	14 1.3	66.82	15 45.19
	29.0	Do	+6 17.08	2.07	8 33 37.23	3 54.49	+18 46 20.1	14 19.8	66.73	15 45.30
	30.0	Fr	6 15.01	2.68	8 37 31.72	3 53.88	18 32 0.3	14 38.0	66.65	15 45.41
	31.0	Sa	6 12.33	3.28	8 41 25.60	3 53.27	18 17 22.3	14 56.1	66.56	15 45.53
	Aug.	1.0	St	6 9.05	3.88	8 45 18.87	3 52.67	18 2 26.2	15 13.8	66.47
2.0		Mo	6 5.17	4.48	8 49 11.54	3 52.08	17 47 12.4	15 31.2	66.39	15 45.78
3.0		Di	6 0.69	5.07	8 53 3.62	3 51.49	17 31 41.2	15 48.3	66.30	15 45.91
4.0		Mi	+5 55.62	5.65	8 56 55.11	3 50.90	+17 15 52.9	16 5.3	66.21	15 46.04
5.0		Do	5 49.97	6.23	9 0 46.01	3 50.32	16 59 47.6	16 21.8	66.13	15 46.17
6.0		Fr	5 43.74	6.81	9 4 36.33	3 49.74	16 43 25.8	16 38.2	66.04	15 46.30
7.0		Sa	5 36.93	7.38	9 8 26.07	3 49.18	16 26 47.6	16 54.1	65.95	15 46.44
8.0		St	5 29.55	7.94	9 12 15.25	3 48.61	16 9 53.5	17 9.8	65.87	15 46.58
9.0		Mo	5 21.61	8.50	9 16 3.86	3 48.05	15 52 43.7	17 25.2	65.79	15 46.73
10.0		Di	+5 13.11	9.06	9 19 51.91	3 47.50	+15 35 18.5	17 40.2	65.70	15 46.88
11.0	Mi	5 4.05	9.61	9 23 39.41	3 46.95	15 17 38.3	17 55.0	65.62	15 47.04	
12.0	Do	4 54.44	10.16	9 27 26.36	3 46.39	14 59 43.3	18 9.4	65.54	15 47.20	
13.0	Fr	4 44.28	10.70	9 31 12.75	3 45.85	14 41 33.9	18 23.4	65.46	15 47.36	
14.0	Sa	4 33.58	11.25	9 34 58.60	3 45.31	14 23 10.5	18 37.1	65.38	15 47.53	
15.0	St	4 22.33	11.78	9 38 43.91	3 44.78	14 4 33.4	18 50.6	65.30	15 47.71	
16.0	Mo	+4 10.55	12.31	9 42 28.69	3 44.24	+13 45 42.8	19 3.6	65.23	15 47.89	
17.0	Di	3 58.24	12.84	9 46 12.93	3 43.71	13 26 39.2	19 16.4	65.15	15 48.07	
18.0	Mi	3 45.40	13.35	9 49 56.64	3 43.21	13 7 22.8	19 28.7	65.08	15 48.26	
19.0	Do	3 32.05	13.85	9 53 39.85	3 42.69	12 47 54.1	19 40.8	65.00	15 48.46	
20.0	Fr	3 18.20	14.35	9 57 22.54	3 42.21	12 28 13.3	19 52.7	64.93	15 48.66	
21.0	Sa	3 3.85	14.83	10 1 4.75	3 41.72	12 8 20.6	20 4.1	64.87	15 48.85	
22.0	St	+2 49.02	15.30	10 4 46.47	3 41.26	+11 48 16.5	20 15.2	64.80	15 49.05	
23.0	Mo	2 33.72	15.74	10 8 27.73	3 40.81	11 28 1.3	20 26.1	64.73	15 49.26	
24.0	Di	2 17.98	16.19	10 12 8.54	3 40.37	11 7 35.2	20 36.6	64.67	15 49.47	
25.0	Mi	2 1.79	16.60	10 15 48.91	3 39.95	10 46 58.6	20 46.8	64.61	15 49.69	
26.0	Do	1 45.19	17.01	10 19 28.86	3 39.54	10 26 11.8	20 56.7	64.55	15 49.90	
27.0	Fr	1 28.18	17.39	10 23 8.40	3 39.16	10 5 15.1	21 6.3	64.49	15 50.12	
28.0	Sa	+1 10.79	17.76	10 26 47.56	3 38.80	+ 9 44 8.8	21 15.7	64.44	15 50.33	
29.0	St	0 53.03	18.11	10 30 26.36	3 38.44	9 22 53.1	21 24.6	64.39	15 50.55	
30.0	Mo	0 34.92	18.44	10 34 4.80	3 38.12	9 1 28.5	21 33.3	64.34	15 50.77	
31.0	Di	+0 16.48	18.74	10 37 42.92	3 37.80	8 39 55.2	21 41.8	64.29	15 50.99	
Sept.	1.0	Mi	— 0 2.26	19.03	10 41 20.72	3 37.52	8 18 13.4	21 49.8	64.25	15 51.22
	2.0	Do	0 21.29		10 44 58.24		7 56 23.6		64.20	15 51.44

Tag	Julian. Tag	0 <sup>h</sup> mittlere Zeit Greenwich				log R	Unter-	Auf-		
		Sternzeit	Mittleres Äquinoktium 1920.0		gang		gang			
			Länge	Breite		in +50 <sup>a</sup>	Breite			
						o <sup>b</sup>	Länge			
1920	2422									
Juli	23	529	8 <sup>h</sup> 3 <sup>m</sup> 40.82	120° 17' 21.5	57 18.0	-0.19	0.006 8172	7 <sup>h</sup> 56 <sup>m</sup>	16 <sup>h</sup> 17 <sup>m</sup>	
	24	530	8 7 37.37	121 14 39.5	57 18.6	-0.06	0.006 7738	434	7 54	16 19
	25	531	8 11 33.93	122 11 58.1	57 18.9	+0.06	0.006 7288	450	7 53	16 20
	26	532	8 15 30.48	123 9 17.0	57 19.5	+0.18	0.006 6820	468	7 52	16 21
	27	533	8 19 27.04	124 6 36.5	57 20.1	+0.28	0.006 6337	483	7 50	16 23
	28	534	8 23 23.60	125 3 56.6	57 20.8	+0.36	0.006 5839	498	7 49	16 24
	29	535	8 27 20.15	126 1 17.4	57 21.5	+0.42	0.006 5327	512	7 47	16 26
	30	536	8 31 16.71	126 58 38.9	57 22.3	+0.46	0.006 4802	525	7 46	16 27
	31	537	8 35 13.26	127 56 1.2	57 23.2	+0.47	0.006 4263	539	7 45	16 28
	Aug.	1	538	8 39 9.82	128 53 24.4	57 24.2	+0.46	0.006 3711	552	7 43
2		539	8 43 6.37	129 50 48.6	57 25.2	+0.41	0.006 3146	565	7 42	16 31
3		540	8 47 2.93	130 48 13.8	57 26.4	+0.34	0.006 2568	578	7 40	16 33
4		541	8 50 59.48	131 45 40.2	57 27.6	+0.25	0.006 1976	592	7 38	16 34
5		542	8 54 56.04	132 43 7.8	57 28.9	+0.14	0.006 1369	607	7 37	16 36
6		543	8 58 52.59	133 40 36.7	57 30.2	+0.02	0.006 0748	621	7 35	16 37
7		544	9 2 49.14	134 38 6.9	57 31.6	-0.11	0.006 0111	637	7 33	16 38
8		545	9 6 45.70	135 35 38.5	57 33.0	-0.24	0.005 9456	655	7 32	16 40
9		546	9 10 42.25	136 33 11.5	57 34.4	-0.35	0.005 8783	673	7 30	16 41
10		547	9 14 38.81	137 30 45.9	57 35.7	-0.44	0.005 8090	693	7 28	16 43
11	548	9 18 35.36	138 28 21.6	57 37.2	-0.51	0.005 7376	714	7 26	16 44	
12	549	9 22 31.92	139 25 58.8	57 38.6	-0.55	0.005 6640	736	7 25	16 46	
13	550	9 26 28.47	140 23 37.4	57 39.8	-0.56	0.005 5881	759	7 23	16 47	
14	551	9 30 25.02	141 21 17.2	57 41.1	-0.54	0.005 5099	782	7 21	16 49	
15	552	9 34 21.58	142 18 58.3	57 42.2	-0.48	0.005 4295	804	7 19	16 50	
16	553	9 38 18.13	143 16 40.5	57 43.4	-0.40	0.005 3468	827	7 17	16 52	
17	554	9 42 14.69	144 14 23.9	57 44.5	-0.30	0.005 2621	847	7 15	16 53	
18	555	9 46 11.24	145 12 8.4	57 45.6	-0.17	0.005 1753	868	7 13	16 55	
19	556	9 50 7.80	146 9 54.0	57 46.8	-0.04	0.005 0868	885	7 11	16 56	
20	557	9 54 4.35	147 7 40.8	57 47.9	+0.09	0.004 9965	903	7 10	16 58	
21	558	9 58 0.90	148 5 28.7	57 49.1	+0.22	0.004 9047	918	7 8	16 59	
22	559	10 1 57.46	149 3 17.8	57 50.3	+0.33	0.004 8114	933	7 6	17 1	
23	560	10 5 54.01	150 1 8.1	57 51.6	+0.43	0.004 7168	946	7 4	17 2	
24	561	10 9 50.56	150 58 59.7	57 52.8	+0.51	0.004 6211	957	7 2	17 4	
25	562	10 13 47.11	151 56 52.5	57 54.2	+0.58	0.004 5242	969	7 0	17 5	
26	563	10 17 43.67	152 54 46.7	57 55.5	+0.63	0.004 4264	978	6 57	17 7	
27	564	10 21 40.22	153 52 42.2	57 57.0	+0.64	0.004 3277	987	6 55	17 8	
28	565	10 25 36.77	154 50 39.2	57 58.6	+0.63	0.004 2282	995	6 53	17 10	
29	566	10 29 33.33	155 48 37.8	58 0.2	+0.58	0.004 1280	1002	6 51	17 11	
30	567	10 33 29.88	156 46 38.0	58 1.8	+0.52	0.004 0271	1009	6 49	17 13	
31	568	10 37 26.43	157 44 39.8	58 3.6	+0.43	0.003 9256	1015	6 47	17 14	
Sept.	1	569	10 41 22.98	158 42 43.4	58 5.5	+0.32	0.003 8235	1021	6 45	17 16
	2	570	10 45 19.54	159 40 48.9	58 7.4	+0.19	0.003 7206	1029	6 43	17 17

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit minus Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durch- gangs- Dauer St. - Zt.	Halb- messer
1920									
Sept. 2.0	Do	— 0 <sup>m</sup> 21.29 <sup>s</sup>	19.30	10 <sup>h</sup> 44 <sup>m</sup> 58.24 <sup>s</sup>	3 <sup>m</sup> 37.26 <sup>s</sup>	+7° 56' 23.6"	21 57.6	64.20	15 51.44
3.0	Fr	0 40.59	19.55	10 48 35.50	3 37.01	7 34 26.0	22 5.0	64.16	15 51.67
4.0	Sa	1 0.14	19.77	10 52 12.51	3 36.77	7 12 21.0	22 12.2	64.12	15 51.90
5.0	St	I 19.91	19.98	10 55 49.28	3 36.57	6 50 8.8	22 19.1	64.09	15 52.13
6.0	Mo	I 39.89	20.17	10 59 25.85	3 36.39	6 27 49.7	22 25.5	64.05	15 52.37
7.0	Di	2 0.06	20.35	II 3 2.24	3 36.21	6 5 24.2	22 31.7	64.02	15 52.60
8.0	Mi	— 2 20.41	20.50	II 6 38.45	3 36.05	+5 42 52.5	22 37.5	63.99	15 52.83
9.0	Do	2 40.91	20.64	II 10 14.50	3 35.91	5 20 15.0	22 42.9	63.97	15 53.07
10.0	Fr	3 1.55	20.76	II 13 50.41	3 35.78	4 57 32.1	22 48.1	63.95	15 53.32
11.0	Sa	3 22.31	20.88	II 17 26.19	3 35.68	+ 34 44.0	22 52.9	63.93	15 53.57
12.0	St	3 43.19	20.97	II 21 1.87	3 35.58	4 11 51.1	22 57.2	63.92	15 53.82
13.0	Mo	4 4.16	21.06	II 24 37.45	3 35.50	3 48 53.9	23 1.3	63.90	15 54.07
14.0	Di	— 4 25.22	21.12	II 28 12.95	3 35.43	+3 25 52.6	23 5.0	63.89	15 54.33
15.0	Mi	4 46.34	21.16	II 31 48.38	3 35.39	3 2 47.6	23 8.4	63.89	15 54.59
16.0	Do	5 7.50	21.20	II 35 23.77	3 35.35	2 39 39.2	23 11.4	63.88	15 54.85
17.0	Fr	5 28.70	21.21	II 38 59.12	3 35.34	2 16 27.8	23 14.1	63.88	15 55.12
18.0	Sa	5 49.91	21.20	II 42 34.46	3 35.35	1 53 13.7	23 16.5	63.88	15 55.39
19.0	St	6 11.11	21.18	II 46 9.81	3 35.38	1 29 57.2	23 18.4	63.89	15 55.66
20.0	Mo	— 6 32.29	21.13	II 49 45.19	3 35.42	+1 6 38.8	23 20.1	63.90	15 55.93
21.0	Di	6 53.42	21.06	II 53 20.61	3 35.49	0 43 18.7	23 21.5	63.91	15 56.20
22.0	Mi	7 14.48	20.97	II 56 56.10	3 35.58	+0 19 57.2	23 22.4	63.92	15 56.47
23.0	Do	7 35.45	20.87	II 0 31.68	3 35.69	— 0 3 25.2	23 23.2	63.94	15 56.75
24.0	Fr	7 56.32	20.73	II 4 7.37	3 35.82	0 26 48.4	23 23.5	63.96	15 57.02
25.0	Sa	8 17.05	20.58	II 7 43.19	3 35.97	0 50 11.9	23 23.5	63.98	15 57.29
26.0	St	— 8 37.63	20.39	II 11 19.16	3 36.16	— 1 13 35.4	23 23.2	64.01	15 57.57
27.0	Mo	8 58.02	20.19	II 14 55.32	3 36.36	1 36 58.6	23 22.6	64.04	15 57.84
28.0	Di	9 18.21	19.97	II 18 31.68	3 36.58	2 0 21.2	23 21.6	64.07	15 58.11
29.0	Mi	9 38.18	19.71	II 22 8.26	3 36.84	2 23 42.8	23 20.3	64.10	15 58.39
30.0	Do	9 57.89	19.44	II 25 45.10	3 37.12	2 47 3.1	23 18.7	64.14	15 58.67
Okt. 1.0	Fr	10 17.33	19.13	II 29 22.22	3 37.42	3 10 21.8	23 16.7	64.18	15 58.94
2.0	Sa	— 10 36.46	18.81	II 32 59.64	3 37.74	— 3 33 38.5	23 14.4	64.22	15 59.21
3.0	St	10 55.27	18.46	II 36 37.38	3 38.09	3 56 52.9	23 11.7	64.27	15 59.47
4.0	Mo	II 13.73	18.10	II 40 15.47	3 38.46	4 20 4.6	23 8.8	64.32	15 59.74
5.0	Di	II 31.83	17.70	II 43 53.93	3 38.84	4 43 13.4	23 5.3	64.38	16 0.01
6.0	Mi	II 49.53	17 30	II 47 32.77	3 39.26	5 6 18.7	23 1.6	64.43	16 0.28
7.0	Do	12 6.83	16 87	II 51 12.03	3 39.68	5 29 20.3	22 57.4	64.49	16 0.55
8.0	Fr	— 12 23.70	16.43	II 54 51.71	3 40.13	— 5 52 17.7	22 53.0	64.55	16 0.82
9.0	Sa	12 40.13	15.97	II 58 31.84	3 40.58	6 15 10.7	22 48.0	64.62	16 1.10
10.0	St	12 56.10	15.49	II 0 12.42	3 41.05	6 37 58.7	22 42.7	64.69	16 1.37
11.0	Mo	13 11.59	15.01	II 3 53.47	3 41.55	7 0 41.4	22 37.0	64.76	16 1.64
12.0	Di	13 26.60	14.51	II 7 35.02	3 42.04	7 23 18.4	22 30.9	64.83	16 1.92
13.0	Mi	13 41.11		II 11 17.06		7 45 49.3		64.91	16 2.20

Tag	Julian. Tag	O <sup>h</sup> mittlere Zeit Greenwich						Unter- gang in +50° Breite	Auf- gang Breite o <sup>h</sup> Länge
		Sternzeit		Mittleres Äquinoktium 1920.0 Länge		log R			
1920	2422								
Sept.	2	570	10 <sup>h</sup> 45 <sup>m</sup> 19.54	159° 40' 48.9"	58' 7.4"	+0.19	0.003 7206	1036	6 <sup>h</sup> 43 <sup>m</sup> 17 <sup>h</sup> 17 <sup>m</sup>
	3	571	10 49 16.09	160 38 56.3	58 9.3	+0.06	0.003 6170	1043	6 41 17 19
	4	572	10 53 12.64	161 37 5.6	58 11.4	-0.07	0.003 5127	1052	6 39 17 20
	5	573	10 57 9.19	162 35 17.0	58 13.4	-0.19	0.003 4075	1062	6 36 17 22
	6	574	11 1 5.75	163 33 30.4	58 15.5	-0.29	0.003 3013	1074	6 34 17 23
	7	575	11 5 2.30	164 31 45.9	58 17.6	-0.36	0.003 1939	1085	6 32 17 25
	8	576	11 8 58.85	165 30 3.5	58 19.6	-0.41	0.003 0854	1099	6 30 17 26
	9	577	11 12 55.40	166 28 23.1	58 21.7	-0.42	0.002 9755	1113	6 28 17 28
	10	578	11 16 51.96	167 26 44.8	58 23.7	-0.41	0.002 8642	1128	6 26 17 29
	11	579	11 20 48.51	168 25 8.5	58 25.5	-0.36	0.002 7514	1143	6 23 17 31
	12	580	11 24 45.06	169 23 34.0	58 27.4	-0.28	0.002 6371	1157	6 21 17 32
	13	581	11 28 41.61	170 22 1.4	58 29.2	-0.17	0.002 5214	1172	6 19 17 34
	14	582	11 32 38.16	171 20 30.6	58 31.0	-0.05	0.002 4042	1184	6 17 17 35
	15	583	11 36 34.72	172 19 1.6	58 32.7	+0.08	0.002 2858	1197	6 15 17 37
	16	584	11 40 31.27	173 17 34.3	58 34.4	+0.21	0.002 1661	1208	6 12 17 38
	17	585	11 44 27.82	174 16 8.7	58 36.1	+0.34	0.002 0453	1216	6 10 17 40
	18	586	11 48 24.37	175 14 44.8	58 37.8	+0.47	0.001 9237	1225	6 8 17 41
	19	587	11 52 20.92	176 13 22.6	58 39.4	+0.58	0.001 8012	1231	6 6 17 43
	20	588	11 56 17.48	177 12 2.0	58 41.2	+0.68	0.001 6781	1236	6 3 17 44
	21	589	12 0 14.03	178 10 43.2	58 42.9	+0.75	0.001 5545	1240	6 1 17 46
	22	590	12 4 10.58	179 9 26.1	58 44.6	+0.79	0.001 4305	1243	5 59 17 47
	23	591	12 8 7.13	180 8 10.7	58 46.4	+0.81	0.001 3062	1245	5 57 17 49
	24	592	12 12 3.68	181 6 57.1	58 48.2	+0.80	0.001 1817	1244	5 55 17 50
	25	593	12 16 0.24	182 5 45.3	58 50.0	+0.76	0.001 0573	1243	5 52 17 52
	26	594	12 19 56.79	183 4 35.3	58 52.0	+0.69	0.000 9330	1242	5 50 17 53
	27	595	12 23 53.34	184 3 27.3	58 53.9	+0.60	0.000 8088	1238	5 48 17 55
	28	596	12 27 49.89	185 2 21.2	58 55.9	+0.49	0.000 6850	1235	5 46 17 56
	29	597	12 31 46.44	186 1 17.1	58 58.1	+0.36	0.000 5615	1232	5 44 17 58
	30	598	12 35 42.99	187 0 15.2	59 0.2	+0.23	0.000 4383	1228	5 41 17 59
Okt.	1	599	12 39 39.55	187 59 15.4	59 2.5	+0.11	0.000 3155	1224	5 39 18 1
	2	600	12 43 36.10	188 58 17.9	59 4.9	-0.02	0.000 1931	1223	5 37 18 2
	3	601	12 47 32.65	189 57 22.8	59 7.2	-0.13	0.000 0708	1222	5 35 18 4
	4	602	12 51 29.20	190 56 30.0	59 9.5	-0.22	9.999 9486	1221	5 33 18 5
	5	603	12 55 25.75	191 55 39.5	59 11.8	-0.28	9.999 8265	1222	5 31 18 7
	6	604	12 59 22.31	192 54 51.3	59 14.2	-0.30	9.999 7043	1224	5 28 18 9
	7	605	13 3 18.86	193 54 5.5	59 16.5	-0.29	9.999 5819	1227	5 26 18 10
	8	606	13 7 15.41	194 53 22.0	59 18.8	-0.24	9.999 4592	1230	5 24 18 12
	9	607	13 11 11.96	195 52 40.8	59 21.1	-0.17	9.999 3362	1234	5 22 18 13
	10	608	13 15 8.51	196 52 1.9	59 23.1	-0.07	9.999 2128	1239	5 20 18 15
	11	609	13 19 5.07	197 51 25.0	59 25.2	+0.06	9.999 0889	1243	5 18 18 16
	12	610	13 23 1.62	198 50 50.2	59 27.2	+0.19	9.998 9646	1246	5 16 18 18
	13	611	13 26 58.17	199 50 17.4		+0.33	9.998 8400		5 14 18 20

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit <small>minus</small> Wahre Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer St. - Zt.	Halb- messer
1920						
Okt. 13.0	Mi	-13 <sup>m</sup> 41.11 <sup>s</sup> 13.98	13 <sup>n</sup> 13 <sup>m</sup> 17.06 <sup>s</sup> 3 42.57	7° 45' 49.3" 22 24.5	64.91	16 2.20
14.0	Do	13 55.09 13.46	13 16 59.63 3 43.10	8 8 13.8 22 17.6	64.99	16 2.48
15.0	Fr	14 8.55 12.91	13 20 42.73 3 43.64	8 30 31.4 22 10.3	65.07	16 2.75
16.0	Sa	14 21.46 12.34	13 24 26.37 3 44.21	8 52 41.7 22 2.7	65.15	16 3.03
17.0	St	14 33.80 11.76	13 28 10.58 3 44.79	9 14 44.4 21 54.6	65.24	16 3.30
18.0	Mo	14 45.56 11.18	13 31 55.37 3 45.38	9 36 39.0 21 46.2	65.33	16 3.59
19.0	Di	-14 56.74 10.56	13 35 40.75 3 45.99	-9 58 25.2 21 37.4	65.42	16 3.86
20.0	Mi	15 7.30 9.94	13 39 26.74 3 46.62	10 20 2.6 21 28.2	65.51	16 4.13
21.0	Do	15 17.24 9.29	13 43 13.36 3 47.26	10 41 30.8 21 18.6	65.60	16 4.41
22.0	Fr	15 26.53 8.63	13 47 0.62 3 47.92	11 2 49.4 21 8.6	65.69	16 4.68
23.0	Sa	15 35.16 7.96	13 50 48.54 3 48.59	11 23 58.0 20 58.3	65.79	16 4.96
24.0	St	15 43.12 7.27	13 54 37.13 3 49.29	11 44 56.3 20 47.4	65.89	16 5.22
25.0	Mo	-15 50.39 6.56	13 58 26.42 3 49.99	-12 5 43.7 20 36.4	65.99	16 5.49
26.0	Di	15 56.95 5.84	14 2 16.41 3 50.72	12 26 20.1 20 24.8	66.10	16 5.75
27.0	Mi	16 2.79 5.09	14 6 7.13 3 51.46	12 46 44.9 20 12.9	66.21	16 6.01
28.0	Do	16 7.88 4.33	14 9 58.59 3 52.22	13 6 57.8 20 0.6	66.31	16 6.27
29.0	Fr	16 12.21 3.55	14 13 50.81 3 53.00	13 26 58.4 19 47.9	66.42	16 6.52
30.0	Sa	16 15.76 2.77	14 17 43.81 3 53.79	13 46 46.3 19 34.8	66.53	16 6.78
31.0	St	-16 18.53 1.96	14 21 37.60 3 54.60	-14 6 21.1 19 21.3	66.65	16 7.02
Nov. 1.0	Mo	16 20.49 1.14	14 25 32.20 3 55.41	14 25 42.4 19 7.5	66.76	16 7.26
2.0	Di	16 21.63 0.31	14 29 27.61 3 56.24	14 44 49.9 18 53.2	66.87	16 7.51
3.0	Mi	16 21.94 0.53	14 33 23.85 3 57.08	15 3 43.1 18 38.5	66.99	16 7.75
4.0	Do	16 21.41 1.37	14 37 20.93 3 57.92	15 22 21.6 18 23.4	67.11	16 7.98
5.0	Fr	16 20.04 2.21	14 41 18.85 3 58.77	15 40 45.0 18 7.9	67.22	16 8.22
6.0	Sa	-16 17.83 3.06	14 45 17.62 3 59.62	-15 58 52.9 17 51.9	67.34	16 8.46
7.0	St	16 14.77 3.92	14 49 17.24 4 0.48	16 16 44.8 17 35.5	67.46	16 8.69
8.0	Mo	16 10.85 4.77	14 53 17.72 4 1.32	16 34 20.3 17 18.8	67.58	16 8.92
9.0	Di	16 6.08 5.62	14 57 19.04 4 2.18	16 51 39.1 17 1.6	67.70	16 9.15
10.0	Mi	16 0.46 6.47	15 1 21.22 4 3.02	17 8 40.7 16 44.0	67.82	16 9.37
11.0	Do	15 53.99 7.32	15 5 24.24 4 3.87	17 25 24.7 16 26.0	67.94	16 9.61
12.0	Fr	-15 46.67 8.16	15 9 28.11 4 4.71	-17 41 50.7 16 7.6	68.06	16 9.83
13.0	Sa	15 38.51 8.99	15 13 32.82 4 5.56	17 57 58.3 15 48.7	68.17	16 10.05
14.0	St	15 29.52 9.83	15 17 38.38 4 6.38	18 13 47.0 15 29.5	68.29	16 10.27
15.0	Mo	15 19.69 10.66	15 21 44.76 4 7.22	18 29 16.5 15 10.0	68.41	16 10.49
16.0	Di	15 9.03 11.49	15 25 51.98 4 8.04	18 44 26.5 14 49.9	68.53	16 10.70
17.0	Mi	14 57.54 12.30	15 30 0.02 4 8.85	18 59 16.4 14 29.5	68.65	16 10.92
18.0	Do	-14 45.24 13.11	15 34 8.87 4 9.67	-19 13 45.9 14 8.8	68.76	16 11.13
19.0	Fr	14 32.13 13.91	15 38 18.54 4 10.47	19 27 54.7 13 47.7	68.87	16 11.33
20.0	Sa	14 18.22 14.70	15 42 29.01 4 11.26	19 41 42.4 13 26.2	68.99	16 11.54
21.0	St	14 3.52 15.49	15 46 40.27 4 12.04	19 55 8.6 13 4.3	69.10	16 11.74
22.0	Mo	13 48.03 16.27	15 50 52.31 4 12.82	20 8 12.9 12 42.1	69.21	16 11.93
23.0	Di	13 31.76	15 55 5.13	20 20 55.0	69.32	16 12.12



Tag	Julian. Tag	0 <sup>h</sup> mittlere Zeit Greenwich				log R	Unter- gang in +50° in 0 <sup>h</sup>	Auf- gang Breite Länge
		Sternzeit	Mittleres Äquinoktium 1920.0					
			Länge	Breite				
1920	2422							
Okt. 13	611	13 <sup>h</sup> 26 <sup>m</sup> 58.17	199° 50'	17.4	+0.33	9.998 8400	5 <sup>h</sup> 14 <sup>m</sup> 18 <sup>h</sup> 20 <sup>m</sup>	
14	612	13 30 54.72	200 49 46.6	59 29.2	+0.46	9.998 7151	5 12 18 21	
15	613	13 34 51.28	201 49 17.7	59 31.1	+0.59	9.998 5900	5 10 18 23	
16	614	13 38 47.83	202 48 50.6	59 32.9	+0.71	9.998 4648	5 8 18 24	
17	615	13 42 44.38	203 48 25.4	59 34.8	+0.80	9.998 3397	5 6 18 26	
18	616	13 46 40.94	204 48 1.9	59 36.5	+0.88	9.998 2147	5 4 18 28	
19	617	13 50 37.49	205 47 40.2	59 38.3	+0.94	9.998 0901	5 2 18 29	
20	618	13 54 34.04	206 47 20.2	59 40.0	+0.97	9.997 9660	5 0 18 31	
21	619	13 58 30.59	207 47 2.0	59 41.8	+0.97	9.997 8424	4 58 18 33	
22	620	14 2 27.15	208 46 45.5	59 43.5	+0.94	9.997 7196	4 56 18 34	
23	621	14 6 23.70	209 46 30.7	59 45.2	+0.87	9.997 5976	4 54 18 36	
24	622	14 10 20.25	210 46 17.7	59 47.0	+0.78	9.997 4766	4 52 18 37	
25	623	14 14 16.81	211 46 6.5	59 48.8	+0.67	9.997 3568	4 50 18 39	
26	624	14 18 13.36	212 45 57.1	59 50.6	+0.56	9.997 2383	4 48 18 41	
27	625	14 22 9.91	213 45 49.5	59 52.4	+0.43	9.997 1211	4 46 18 42	
28	626	14 26 6.47	214 45 43.9	59 54.4	+0.28	9.997 0054	4 45 18 44	
29	627	14 30 3.02	215 45 40.3	59 56.4	+0.15	9.996 8912	4 43 18 46	
30	628	14 33 59.58	216 45 38.7	60 0.4	+0.03	9.996 7785	4 41 18 47	
Nov. 31	629	14 37 56.13	217 45 39.1	60 2.6	-0.06	9.996 6672	4 39 18 49	
1	630	14 41 52.68	218 45 41.7	60 4.7	-0.13	9.996 5572	4 38 18 51	
2	631	14 45 49.24	219 45 46.4	60 7.0	-0.17	9.996 4485	4 36 18 52	
3	632	14 49 45.79	220 45 53.4	60 9.0	-0.17	9.996 3409	4 34 18 54	
4	633	14 53 42.34	221 46 2.4	60 11.2	-0.14	9.996 2343	4 33 18 56	
5	634	14 57 38.90	222 46 13.6	60 13.2	-0.08	9.996 1287	4 31 18 57	
6	635	15 1 35.45	223 46 26.8	60 15.2	0.00	9.996 0239	4 29 18 59	
7	636	15 5 32.01	224 46 42.0	60 17.2	+0.12	9.995 9198	4 28 19 1	
8	637	15 9 28.56	225 46 59.2	60 19.1	+0.25	9.995 8165	4 26 19 2	
9	638	15 13 25.12	226 47 18.3	60 20.8	+0.38	9.995 7138	4 25 19 4	
10	639	15 17 21.67	227 47 39.1	60 22.5	+0.52	9.995 6118	4 23 19 6	
11	640	15 21 18.23	228 48 1.6	60 24.2	+0.65	9.995 5105	4 22 19 7	
12	641	15 25 14.78	229 48 25.8	60 25.7	+0.77	9.995 4100	4 20 19 9	
13	642	15 29 11.34	230 48 51.5	60 27.2	+0.87	9.995 3103	4 19 19 11	
14	643	15 33 7.89	231 49 18.7	60 28.6	+0.95	9.995 2116	4 18 19 12	
15	644	15 37 4.45	232 49 47.3	60 30.0	+1.01	9.995 1139	4 16 19 14	
16	645	15 41 1.00	233 50 17.3	60 31.3	+1.05	9.995 0173	4 15 19 16	
17	646	15 44 57.56	234 50 48.6	60 32.6	+1.05	9.994 9220	4 14 19 17	
18	647	15 48 54.12	235 51 21.2	60 33.9	+1.03	9.994 8280	4 13 19 19	
19	648	15 52 50.67	236 51 55.1	60 35.1	+0.97	9.994 7355	4 12 19 20	
20	649	15 56 47.23	237 52 30.2	60 36.3	+0.89	9.994 6446	4 11 19 22	
21	650	16 0 43.78	238 53 6.5	60 37.5	+0.79	9.994 5555	4 10 19 23	
22	651	16 4 40.34	239 53 44.0	60 38.6	+0.67	9.994 4683	4 9 19 25	
23	652	16 8 36.90	240 54 22.6		+0.54	9.994 3832	4 8 19 26	

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit minus Wahre Zeit	Scheinbare Rektaszension	Scheinbare Deklination	Halbe Durch- gangs- Dauer St. - Zt.	Halb- messer
1920						
Nov. 23.0	Di	-13 <sup>m</sup> 31.76 <sup>s</sup> 17.03	15 <sup>h</sup> 55 <sup>m</sup> 5.13 <sup>s</sup> 4 13.59	-20° 20' 55.0" 12 19.6	69.32	16 12.12
24.0	Mi	13 14.73 17.79	15 59 18.72 4 14.35	20 33 14.6 11 56.7	69.43	16 12.31
25.0	Do	12 56.94 18.54	16 3 33.07 4 15.10	20 45 11.3 11 33.5	69.53	16 12.49
26.0	Fr	12 38.40 19.29	16 7 48.17 4 15.84	20 56 44.8 11 10.0	69.63	16 12.66
27.0	Sa	12 19.11 20.01	16 12 4.01 4 16.56	21 7 54.8 10 46.1	69.73	16 12.83
28.0	St	11 59.10 20.72	16 16 20.57 4 17.29	21 18 40.9 10 21.9	69.83	16 13.00
29.0	Mo	-11 38.38 21.43	16 20 37.86 4 17.98	-21 29 2.8 9 57.5	69.93	16 13.15
30.0	Di	11 16.95 22.12	16 24 55.84 4 18.67	21 39 0.3 9 32.7	70.02	16 13.31
Dez. 1.0	Mi	10 54.83 22.78	16 29 14.51 4 19.34	21 48 33.0 9 7.6	70.11	16 13.46
2.0	Do	10 32.05 23.42	16 33 33.85 4 19.98	21 57 40.6 8 42.3	70.20	16 13.60
3.0	Fr	10 8.63 24.05	16 37 53.83 4 20.61	22 6 22.9 8 16.8	70.28	16 13.74
4.0	Sa	9 44.58 24.64	16 42 14.44 4 21.20	22 14 39.7 7 50.8	70.36	16 13.88
5.0	St	-9 19.94 25.21	16 46 35.64 4 21.77	-22 22 30.5 7 24.8	70.44	16 14.01
6.0	Mo	8 54.73 25.75	16 50 57.41 4 22.30	22 29 55.3 6 58.4	70.51	16 14.14
7.0	Di	8 28.98 26.26	16 55 19.71 4 22.82	22 36 53.7 6 31.9	70.58	16 14.26
8.0	Mi	8 2.72 26.74	16 59 42.53 4 23.29	22 43 25.6 6 5.1	70.64	16 14.38
9.0	Do	7 35.98 27.18	17 4 5.82 4 23.74	22 49 30.7 5 38.1	70.70	16 14.50
10.0	Fr	7 8.80 27.59	17 8 29.56 4 24.15	22 55 8.8 5 10.9	70.76	16 14.62
11.0	Sa	-6 41.21 27.97	17 12 53.71 4 24.52	-23 0 19.7 4 43.6	70.81	16 14.73
12.0	St	6 13.24 28.31	17 17 18.23 4 24.87	23 5 3.3 4 16.1	70.86	16 14.83
13.0	Mo	5 44.93 28.62	17 21 43.10 4 25.18	23 9 19.4 3 48.5	70.91	16 14.94
14.0	Di	5 16.31 28.90	17 26 8.28 4 25.46	23 13 7.9 3 20.7	70.95	16 15.04
15.0	Mi	4 47.41 29.14	17 30 33.74 4 25.70	23 16 28.6 2 52.8	70.99	16 15.14
16.0	Do	4 18.27 29.35	17 34 59.44 4 25.90	23 19 21.4 2 24.9	71.02	16 15.23
17.0	Fr	-3 48.92 29.51	17 39 25.34 4 26.07	-23 21 46.3 1 56.8	71.05	16 15.32
18.0	Sa	3 19.41 29.65	17 43 51.41 4 26.21	23 23 43.1 1 28.7	71.07	16 15.41
19.0	St	2 49.76 29.75	17 48 17.62 4 26.30	23 25 11.8 1 0.4	71.09	16 15.48
20.0	Mo	2 20.01 29.82	17 52 43.92 4 26.38	23 26 12.2 0 32.3	71.10	16 15.56
21.0	Di	1 50.19 29.85	17 57 10.30 4 26.41	23 26 44.5 0 4.0	71.11	16 15.62
22.0	Mi	1 20.34 29.85	18 1 36.71 4 26.41	23 26 48.5 0 24.3	71.12	16 15.69
23.0	Do	-0 50.49 29.83	18 6 3.12 4 26.38	-23 26 24.2 0 52.5	71.12	16 15.74
24.0	Fr	-0 20.66 29.77	18 10 29.50 4 26.33	23 25 31.7 1 20.8	71.11	16 15.79
25.0	Sa	+0 9.11 29.69	18 14 55.83 4 26.25	23 24 10.9 1 49.0	71.10	16 15.84
26.0	St	0 38.80 29.57	18 19 22.08 4 26.13	23 22 21.9 2 17.2	71.09	16 15.88
27.0	Mo	1 8.37 29.44	18 23 48.21 4 25.99	23 20 4.7 2 45.4	71.07	16 15.91
28.0	Di	1 37.81 29.26	18 28 14.20 4 25.82	23 17 19.3 3 13.4	71.05	16 15.93
29.0	Mi	+2 7.07 29.07	18 32 40.02 4 25.63	-23 14 5.9 3 41.4	71.02	16 15.95
30.0	Do	2 36.14 28.83	18 37 5.65 4 25.39	23 10 24.5 4 9.2	70.99	16 15.96
31.0	Fr	3 4.97 28.58	18 41 31.04 4 25.13	23 6 15.3 4 37.1	70.96	16 15.97
32.0	Sa	3 33.55	18 45 56.17	23 1 38.2	70.92	16 15.97

Tag	Julian. Tag	0 <sup>h</sup> mittlere Zeit Greenwich				log R	Unter- gang in +5° o <sup>b</sup>	Auf- gang Breite Länge
		Sternzeit	Mittleres Äquinoktium Länge	1920.0 Breite				
1920	2422							
Nov. 23	652	16 <sup>h</sup> 8 <sup>m</sup> 36.90	240° 54' 22.6	60' 39.8	+0.54	9.994 3832	828	4 <sup>h</sup> 8 <sup>m</sup> 19 <sup>h</sup> 26 <sup>m</sup>
24	653	16 12 33.45	241 55 2.4	60 41.1	+0.40	9.994 3004	806	4 7 19 28
25	654	16 16 30.01	242 55 43.5	60 42.4	+0.27	9.994 2198	781	4 6 19 29
26	655	16 20 26.56	243 56 25.9	60 43.6	+0.14	9.994 1417	757	4 5 19 31
27	656	16 24 23.12	244 57 9.5	60 45.1	+0.03	9.994 0660	733	4 4 19 32
28	657	16 28 19.68	245 57 54.6	60 46.5	-0.05	9.993 9927	709	4 3 19 34
29	658	16 32 16.23	246 58 41.1	60 47.9	-0.11	9.993 9218	686	4 3 19 35
30	659	16 36 12.79	247 59 29.0	60 49.5	-0.13	9.993 8532	664	4 2 19 36
Dez. 1	660	16 40 9.35	249 0 18.5	60 50.8	-0.11	9.993 7868	643	4 2 19 38
2	661	16 44 5.90	250 1 9.3	60 52.3	-0.06	9.993 7225	624	4 1 19 39
3	662	16 48 2.46	251 2 1.6	60 53.7	+0.01	9.993 6601	606	4 0 19 40
4	663	16 51 59.02	252 2 55.3	60 55.0	+0.11	9.993 5995	589	4 0 19 42
5	664	16 55 55.57	253 3 50.3	60 56.3	+0.23	9.993 5406	572	4 0 19 43
6	665	16 59 52.13	254 4 46.6	60 57.4	+0.36	9.993 4834	557	3 59 19 44
7	666	17 3 48.69	255 5 44.0	60 58.5	+0.48	9.993 4277	541	3 59 19 45
8	667	17 7 45.24	256 6 42.5	60 59.6	+0.60	9.993 3736	527	3 59 19 46
9	668	17 11 41.80	257 7 42.1	61 0.5	+0.72	9.993 3209	512	3 59 19 47
10	669	17 15 38.36	258 8 42.6	61 1.3	+0.82	9.993 2697	496	3 58 19 48
11	670	17 19 34.92	259 9 43.9	61 2.1	+0.90	9.993 2201	481	3 58 19 49
12	671	17 23 31.47	260 10 46.0	61 2.8	+0.96	9.993 1720	465	3 58 19 50
13	672	17 27 28.03	261 11 48.8	61 3.3	+1.00	9.993 1255	449	3 58 19 51
14	673	17 31 24.59	262 12 52.1	61 3.9	+1.00	9.993 0806	431	3 58 19 52
15	674	17 35 21.15	263 13 56.0	61 4.4	+0.97	9.993 0375	413	3 58 19 53
16	675	17 39 17.70	264 15 0.4	61 4.7	+0.92	9.992 9962	393	3 59 19 53
17	676	17 43 14.26	265 16 5.1	61 5.1	+0.84	9.992 9569	373	3 59 19 54
18	677	17 47 10.82	266 17 10.2	61 5.4	+0.74	9.992 9196	352	3 59 19 55
19	678	17 51 7.38	267 18 15.6	61 5.6	+0.62	9.992 8844	329	4 0 19 55
20	679	17 55 3.93	268 19 21.2	61 5.8	+0.50	9.992 8515	305	4 0 19 56
21	680	17 59 0.49	269 20 27.0	61 5.9	+0.37	9.992 8210	279	4 0 19 57
22	681	18 2 57.05	270 21 32.9	61 6.2	+0.23	9.992 7931	251	4 1 19 57
23	682	18 6 53.61	271 22 39.1	61 6.5	+0.09	9.992 7680	223	4 1 19 57
24	683	18 10 50.16	272 23 45.6	61 6.7	-0.02	9.992 7457	194	4 2 19 58
25	684	18 14 46.72	273 24 52.3	61 6.9	-0.10	9.992 7263	165	4 3 19 58
26	685	18 18 43.28	274 25 59.2	61 7.4	-0.16	9.992 7098	136	4 3 19 58
27	686	18 22 39.84	275 27 6.6	61 7.7	-0.19	9.992 6962	106	4 4 19 59
28	687	18 26 36.39	276 28 14.3	61 8.1	-0.19	9.992 6856	79	4 5 19 59
29	688	18 30 32.95	277 29 22.4	61 8.6	-0.15	9.992 6777	53	4 6 19 59
30	689	18 34 29.51	278 30 31.0	61 9.0	-0.09	9.992 6724	28	4 7 19 59
31	690	18 38 26.07	279 31 40.0	61 9.3	0.00	9.992 6696	4	4 8 19 59
32	691	18 42 22.62	280 32 49.3		+0.11	9.992 6692		4 9 19 59

Mittlere Zeit Greenwich		Mittleres Äquinoktium 1920.0								
		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
1920										
Jan.	1.0	+0.167 2337	7179.7		-0.888 8987	1142.7		-0.385 5753	495.4	
	1.5	0.175 8426	7168.3	+11785	0.887 4930	1200.1	+1971	0.384 9659	520.3	+ 857
	2.0	0.184 4374	7156.4		0.886 0184	1257.5		0.384 3266	545.1	
	2.5	0.193 0177	7144.0	11745	0.884 4752	1314.5	2163	0.383 6577	569.9	941
	3.0	0.201 5827	7131.0		0.882 8637	1371.4		0.382 9589	594.7	
	3.5	0.210 1318	7117.5	11701	0.881 1838	1428.4	2354	0.382 2305	619.3	1024
	4.0	+0.218 6645	7103.5		-0.879 4357	1485.1		-0.381 4726	643.9	
	4.5	0.227 1801	7089.0	+11654	0.877 6196	1541.7	+2544	0.380 6851	668.5	+1107
	5.0	0.235 6780	7074.0		0.875 7357	1598.2		0.379 8681	693.1	
	5.5	0.244 1576	7058.6	11603	0.873 7840	1654.6	2734	0.379 0218	717.5	1189
	6.0	0.252 6184	7042.7		0.871 7647	1710.8		0.378 1462	741.9	
	6.5	0.261 0598	7026.2	11548	0.869 6780	1767.0	2923	0.377 2413	766.3	1271
	7.0	+0.269 4811	7009.2		-0.867 5240	1823.0		-0.376 3071	790.6	
	7.5	0.277 8816	6991.6	+11490	0.865 3028	1878.9	+3111	0.375 3438	814.9	+1353
	8.0	0.286 2608	6973.6		0.863 0146	1934.8		0.374 3513	839.2	
	8.5	0.294 6181	6955.1	11428	0.860 6594	1990.5	3298	0.373 3297	863.4	1434
	9.0	0.302 9528	6936.0		0.858 2375	2046.0		0.372 2791	887.5	
	9.5	0.311 2643	6916.4	11363	0.855 7490	2101.5	3484	0.371 1996	911.6	1515
	10.0	+0.319 5520	6896.3		-0.853 1939	2156.8		-0.370 0912	935.7	
	10.5	0.327 8153	6875.7	+11294	0.850 5726	2211.8	+3669	0.368 9540	959.6	+1596
	11.0	0.336 0535	6854.5		0.847 8855	2266.7		0.367 7882	983.4	
	11.5	0.344 2660	6832.8	11222	0.845 1325	2321.7	3853	0.366 5938	1007.3	1676
	12.0	0.352 4521	6810.6		0.842 3135	2376.5		0.365 3708	1031.1	
	12.5	0.360 6112	6787.8	11146	0.839 4288	2431.1	4036	0.364 1193	1054.8	1755
	13.0	+0.368 7425	6764.4		-0.836 4788	2485.6		-0.362 8394	1078.4	
	13.5	0.376 8456	6740.6	+11066	0.833 4635	2539.9	+4217	0.361 5312	1102.0	+1834
	14.0	0.384 9197	6716.2		0.830 3831	2593.9		0.360 1947	1125.4	
	14.5	0.392 9642	6691.2	10983	0.827 2381	2647.8	4397	0.358 8302	1148.8	1912
	15.0	0.400 9783	6665.6		0.824 0285	2701.4		0.357 4377	1172.1	
	15.5	0.408 9615	6639.6	10897	0.820 7547	2754.9	4576	0.356 0172	1195.3	1990
	16.0	+0.416 9131	6613.0		-0.817 4168	2808.2		-0.354 5690	1218.4	
	16.5	0.424 8325	6585.8	+10807	0.814 0151	2861.3	+4753	0.353 0931	1241.4	+2067
	17.0	0.432 7189	6558.2		0.810 5498	2914.2		0.351 5897	1264.3	
	17.5	0.440 5719	6530.0	10714	0.807 0211	2966.9	4928	0.350 0588	1287.1	2143
	18.0	0.448 3908	6501.3		0.803 4293	3019.3		0.348 5006	1309.8	
	18.5	0.456 1748	6472.0	10618	0.799 7748	3071.5	5102	0.346 9152	1332.5	2219
	19.0	+0.463 9234	6442.2		-0.796 0579	3123.4		-0.345 3027	1355.0	
	19.5	0.471 6358	6411.8	+10518	0.792 2788	3175.0	+5275	0.343 6633	1377.4	+2294
	20.0	0.479 3115	6381.0		0.788 4379	3226.4		0.341 9970	1399.7	
	20.5	0.486 9499	6349.6	10415	0.784 5355	3277.6	5446	0.340 3041	1421.8	2368
	21.0	0.494 5503	6317.7		0.780 5718	3328.5		0.338 5847	1443.8	
	21.5	0.502 1122	6285.3	10309	0.776 5473	3379.1	5616	0.336 8389	1465.8	2442

## Mittleres Äquinoktium 1920.0

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.	
<b>1920</b>									
Jan. 21.5	+0.502 1122	6285.3	+10309	-0.776 5473	3379.1	+5616	-0.336 8389	1465.8	+2442
22.0	0.509 6349	6252.4		0.772 4622	3429.4		0.335 0668	1487.6	
22.5	0.517 1177	6218.9	10200	0.768 3169	3479.4	5783	0.333 2687	1509.3	2515
23.0	0.524 5601	6185.0		0.764 1117	3529.2		0.331 4445	1530.9	
23.5	0.531 9614	6150.5	10087	0.759 8470	3578.6	5949	0.329 5947	1552.2	2587
24.0	0.539 3211	6115.6		0.755 5233	3627.6		0.327 7193	1573.4	
24.5	+0.546 6386	6080.2	+ 9972	-0.751 1408	3676.4	+6113	-0.325 8185	1594.6	+2658
25.0	0.553 9133	6044.3		0.746 7000	3724.8		0.323 8924	1615.6	
25.5	0.561 1447	6008.0	9853	0.742 2013	3773.0	6275	0.321 9411	1636.4	2729
26.0	0.568 3322	5971.1		0.737 6450	3820.8		0.319 9650	1657.1	
26.5	0.575 4752	5933.8	9731	0.733 0316	3868.2	6435	0.317 9642	1677.6	2798
27.0	0.582 5731	5896.0		0.728 3615	3915.3		0.315 9388	1698.0	
27.5	+0.589 6255	5857.9	+ 9606	-0.723 6351	3962.0	+6593	-0.313 8890	1718.3	+2867
28.0	0.596 6319	5819.3		0.718 8528	4008.4		0.311 8148	1738.4	
28.5	0.603 5917	5780.3	9478	0.714 0151	4054.5	6749	0.309 7168	1758.3	2935
29.0	0.610 5044	5740.9		0.709 1223	4100.1		0.307 5949	1778.2	
29.5	0.617 3697	5701.1	9347	0.704 1749	4145.3	6903	0.305 4492	1797.9	3002
30.0	0.624 1870	5660.9		0.699 1736	4190.3		0.303 2801	1817.3	
30.5	+0.630 9557	5620.3	+ 9213	-0.694 1184	4235.0	+7055	-0.301 0877	1836.7	+3068
31.0	0.637 6755	5579.3		0.689 0098	4279.2		0.298 8720	1855.9	
31.5	0.644 3458	5537.9	9077	0.683 8485	4323.0	7204	0.296 6335	1874.9	3133
Febr. 1.0	0.650 9664	5496.2		0.678 6347	4366.6		0.294 3723	1893.8	
1.5	0.657 5366	5454.1	8938	0.673 3688	4409.8	7352	0.292 0884	1912.6	3197
2.0	0.664 0560	5411.6		0.668 0513	4452.7		0.289 7821	1931.2	
2.5	+0.670 5242	5368.8	+ 8796	-0.662 6826	4495.2	+7497	-0.287 4535	1949.7	+3260
3.0	0.676 9409	5325.5		0.657 2630	4537.3		0.285 1028	1968.1	
3.5	0.683 3054	5281.9	8651	0.651 7932	4579.1	7640	0.282 7302	1986.2	3322
4.0	0.689 6174	5238.0		0.646 2732	4620.7		0.280 3359	2004.2	
4.5	0.695 8764	5193.7	8504	0.640 7036	4661.9	7780	0.277 9201	2022.1	3383
5.0	0.702 0822	5149.1		0.635 0849	4702.7		0.275 4828	2039.9	
5.5	+0.708 2342	5104.1	+ 8354	-0.629 4173	4743.2	+7918	-0.273 0243	2057.5	+3443
6.0	0.714 3319	5058.7		0.623 7014	4783.4		0.270 5448	2075.0	
6.5	0.720 3749	5012.9	8201	0.617 9374	4823.2	8053	0.268 0444	2092.2	3502
7.0	0.726 3627	4966.8		0.612 1259	4862.6		0.265 5235	2109.3	
7.5	0.732 2950	4920.3	8046	0.606 2672	4901.8	8186	0.262 9821	2126.4	3560
8.0	0.738 1712	4873.4		0.600 3616	4940.7		0.260 4202	2143.3	
8.5	+0.743 9910	4826.1	+ 7888	-0.594 4097	4979.1	+8317	-0.257 8382	2160.0	+3617
9.0	0.749 7538	4778.5		0.588 4121	5017.1		0.255 2363	2176.5	
9.5	0.755 4593	4730.4	7728	0.582 3690	5054.7	8445	0.252 6147	2192.8	3673
10.0	0.761 1068	4682.0		0.576 2809	5092.0		0.249 9736	2209.0	
10.5	0.766 6960	4633.3	7566	0.570 1482	5129.0	8570	0.247 3131	2225.1	3727
11.0	0.772 2267	4584.3		0.563 9714	5165.6		0.244 6335	2241.0	

## Sonnenkoordinaten 1920

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1920.0								
	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.
1920									
Febr. II.0	+0.772 2267	4584.3		-0.563 9714	5165.6		-0.244 6335	2241.0	
II.5	0.777 6982	4534.8	+7401	0.557 7510	5201.8	+ 8693	0.241 9349	2256.7	+3781
12.0	0.783 1100	4484.9		0.551 4874	5237.6		0.239 2176	2272.2	
12.5	0.788 4617	4434.7	7234	0.545 1810	5272.9	8813	0.236 4818	2287.5	3833
13.0	0.793 7531	4384.2		0.538 8325	5307.8		0.233 7277	2302.7	
13.5	0.798 9836	4333.2	7065	0.532 4423	5342.4	8931	0.230 9555	2317.6	3884
14.0	+0.804 1527	4281.9		-0.526 0108	5376.6		-0.228 1655	2332.4	
14.5	0.809 2601	4230.4	+6894	0.519 5386	5410.4	+ 9046	0.225 3578	2347.0	+3934
15.0	0.814 3056	4178.5		0.513 0261	5443.7		0.222 5327	2361.4	
15.5	0.819 2885	4126.2	6720	0.506 4738	5476.5	9158	0.219 6904	2375.7	3983
16.0	0.824 2084	4073.6		0.499 8826	5508.9		0.216 8311	2389.7	
16.5	0.829 0650	4020.7	6544	0.493 2527	5541.0	9267	0.213 9551	2403.6	4030
17.0	+0.833 8579	3967.5		-0.486 5844	5572.6		-0.211 0625	2417.3	
17.5	0.838 5868	3913.9	+6366	0.479 8785	5603.7	+ 9373	0.208 1537	2430.8	+4076
18.0	0.843 2512	3860.0		0.473 1356	5634.4		0.205 2288	2444.1	
18.5	0.847 8507	3805.8	6187	0.466 3562	5664.6	9476	0.202 2880	2457.1	4121
19.0	0.852 3850	3751.3		0.459 5409	5694.4		0.199 3318	2469.9	
19.5	0.856 8536	3696.5	6005	0.452 6900	5723.7	9576	0.196 3602	2482.6	4165
20.0	+0.861 2564	3641.4		-0.445 8043	5752.4		-0.193 3736	2495.1	
20.5	0.865 5929	3586.0	+5822	0.438 8844	5780.7	+ 9674	0.190 3721	2507.4	+4207
21.0	0.869 8626	3530.3		0.431 9308	5808.5		0.187 3560	2519.5	
21.5	0.874 0655	3474.4	5637	0.424 9442	5835.8	9769	0.184 3255	2531.3	4248
22.0	0.878 2012	3418.3		0.417 9252	5862.7		0.181 2811	2542.8	
22.5	0.882 2694	3362.0	5450	0.410 8741	5889.1	9860	0.178 2229	2554.2	4288
23.0	+0.886 2699	3305.4		-0.403 7917	5914.9		-0.175 1511	2565.4	
23.5	0.890 2022	3248.5	+5261	0.396 6786	5940.3	+ 9949	0.172 0659	2576.4	+4326
24.0	0.894 0662	3191.5		0.389 5353	5965.1		0.168 9678	2587.1	
24.5	0.897 8617	3134.2	5071	0.382 3626	5989.3	10034	0.165 8569	2597.7	4363
25.0	0.901 5883	3076.8		0.375 1611	6013.1		0.162 7334	2608.1	
25.5	0.905 2459	3019.2	4879	0.367 9313	6036.5	10117	0.159 5976	2618.2	4399
26.0	+0.908 8343	2961.4		-0.360 6736	6059.4		-0.156 4499	2628.1	
26.5	0.912 3532	2903.4	+4686	0.353 3888	6081.8	+10196	0.153 2903	2637.8	+4433
27.0	0.915 8023	2845.2		0.346 0776	6103.7		0.150 1192	2647.3	
27.5	0.919 1816	2786.9	4492	0.338 7402	6125.1	10272	0.146 9369	2656.6	4466
28.0	0.922 4909	2728.5		0.331 3775	6146.0		0.143 7435	2665.7	
28.5	0.925 7299	2669.9	4296	0.323 9900	6166.4	10345	0.140 5393	2674.6	4498
29.0	+0.928 8987	2611.3		-0.316 5784	6186.3		-0.137 3246	2683.2	
29.5	0.931 9969	2552.5	+4099	0.309 1431	6205.7	+10415	0.134 0996	2691.7	+4529
März 1.0	0.935 0245	2493.5		0.301 6848	6224.8		0.130 8645	2700.0	
1.5	0.937 9812	2434.3	3900	0.294 2038	6243.4	10482	0.127 6196	2708.1	4559
2.0	0.940 8668	2375.1		0.286 7009	6261.5		0.124 3652	2716.0	
2.5	0.943 6814	2315.8	3701	0.279 1765	6279.1	10546	0.121 1014	2723.7	4587

## Mittleres Äquinoktium 1920.0

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1920.0								
	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
<b>1920</b>									
<b>März 2.5</b>	+0.943 6814	2315.8	+3701	-0.279 1765	6279.1	+10546	-0.121 1014	2723.7	+4587
3.0	0.946 4247	2256.3		0.271 6312	6296.3		0.117 8284	2731.2	
3.5	0.949 0965	2196.8	3500	0.264 0655	6313.1	10606	0.114 5466	2738.4	4613
4.0	0.951 6968	2137.1		0.256 4800	6329.4		0.111 2562	2745.5	
4.5	0.954 2254	2077.2	3298	0.248 8752	6345.2	10663	0.107 9574	2752.4	4638
5.0	0.956 6820	2017.2		0.241 2517	6360.6		0.104 6504	2759.2	
5.5	+0.959 0665	1957.1	+3095	-0.233 6099	6375.5	+10717	-0.101 3355	2765.7	+4661
6.0	0.961 3789	1896.8		0.225 9506	6390.0		0.098 0129	2772.0	
6.5	0.963 6189	1836.5	2891	0.218 2741	6404.1	10768	0.094 6828	2778.2	4683
7.0	0.965 7865	1776.1		0.210 5810	6417.7		0.091 3454	2784.1	
7.5	0.967 8814	1715.4	2687	0.202 8718	6430.8	10815	0.088 0011	2789.7	4704
8.0	0.969 9034	1654.6		0.195 1472	6443.5		0.084 6501	2795.2	
8.5	+0.971 8524	1593.8	+2482	-0.187 4077	6455.7	+10860	-0.081 2927	2800.5	+4723
9.0	0.973 7284	1532.8		0.179 6538	6467.4		0.077 9290	2805.6	
9.5	0.975 5311	1471.7	2276	0.171 8861	6478.7	10901	0.074 5593	2810.5	4741
10.0	0.977 2605	1410.5		0.164 1051	6489.5		0.071 1839	2815.2	
10.5	0.978 9163	1349.2	2069	0.156 3115	6499.7	10939	0.067 8030	2819.7	4757
11.0	0.980 4985	1287.8		0.148 5059	6509.5		0.064 4167	2824.0	
11.5	+0.982 0069	1226.3	+1862	-0.140 6888	6518.9	+10973	-0.061 0255	2827.9	+4772
12.0	0.983 4416	1164.7		0.132 8607	6527.8		0.057 6298	2831.6	
12.5	0.984 8022	1102.9	1653	0.125 0222	6536.2	11004	0.054 2296	2835.3	4786
13.0	0.986 0885	1041.0		0.117 1740	6544.1		0.050 8250	2838.8	
13.5	0.987 3006	979.2	1444	0.109 3166	6551.5	11032	0.047 4164	2842.0	4798
14.0	0.988 4385	917.3		0.101 4506	6558.4		0.044 0042	2844.9	
14.5	+0.989 5020	855.2	+1235	-0.093 5767	6564.8	+11057	-0.040 5886	2847.7	+4809
15.0	0.990 4910	793.1		0.085 6954	6570.7		0.037 1698	2850.2	
15.5	0.991 4054	731.0	1026	0.077 8073	6576.1	11078	0.033 7481	2852.5	4818
16.0	0.992 2453	668.8		0.069 9130	6581.0		0.030 3238	2854.6	
16.5	0.993 0104	606.5	816	0.062 0132	6585.3	11096	0.026 8970	2856.5	4826
17.0	0.993 7009	544.2		0.054 1085	6589.1		0.023 4682	2858.2	
17.5	+0.994 3166	481.8	+ 606	-0.046 1995	6592.5	+11110	-0.020 0375	2859.6	+4832
18.0	0.994 8572	419.3		0.038 2868	6595.3		0.016 6053	2860.7	
18.5	0.995 3229	356.8	396	0.030 3710	6597.6	11121	0.013 1718	2861.7	4837
19.0	0.995 7136	294.3		0.022 4528	6599.3		0.009 7374	2862.4	
19.5	0.996 0293	231.9	+ 186	0.014 5328	6600.6	11129	0.006 3022	2862.9	4840
20.0	0.996 2702	169.5		-0.006 6116	6601.3		-0.002 8666	2863.1	
20.5	+0.996 4361	107.0	- 24	+0.001 3101	6601.4	+11133	+0.000 5692	2863.2	+4842
21.0	0.996 5271	44.6		0.009 2315	6601.0		0.004 0051	2863.0	
21.5	0.996 5431	17.8	235	0.017 1522	6600.0	11134	0.007 4405	2862.6	4842
22.0	0.996 4843	80.2		0.025 0714	6598.6		0.010 8753	2862.0	
22.5	0.996 3506	142.5	445	0.032 9886	6596.7	11132	0.014 3093	2861.1	4841
23.0	0.996 1423	204.8		0.040 9032	6594.2		0.017 7419	2860.0	

Mittleres Äquinoktium 1920.0									
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.			
1920									
<b>März</b> 23.0	+0.996 1423	204.8		+0.040 9032	6594.2		+0.017 7419	2860.0	
23.5	0.995 8593	267.0	— 655	0.048 8144	6591.1	+ IIII26	0.021 1731	2858.7	+4838
24.0	0.995 5016	329.1		0.056 7216	6587.5		0.024 6027	2857.2	
24.5	0.995 0696	391.0	865	0.064 6243	6583.5	IIII17	0.028 0303	2855.4	4834
25.0	0.994 5633	452.9		0.072 5218	6578.9		0.031 4556	2853.4	
25.5	0.993 9827	514.7	1075	0.080 4134	6573.8	IIIO5	0.034 8784	2851.2	4829
26.0	+0.993 3281	576.4		+0.088 2986	6568.2		+0.038 2985	2848.8	
26.5	0.992 5994	638.1	—1284	0.096 1769	6562.2	+IIIO90	0.041 7155	2846.2	+4822
27.0	0.991 7968	699.6		0.104 0476	6555.7		0.045 1294	2843.4	
27.5	0.990 9205	760.9	1493	0.111 9102	6548.7	IIIO71	0.048 5397	2840.4	4814
28.0	0.989 9708	822.0		0.119 7642	6541.2		0.051 9463	2837.2	
28.5	0.988 9477	883.1	1702	0.127 6089	6533.2	IIIO49	0.055 3489	2833.7	4805
29.0	+0.987 8513	944.1		+0.135 4436	6524.7		+0.058 7472	2830.1	
29.5	0.986 6818	1005.0	—1910	0.143 2679	6515.8	+IIIO23	0.062 1411	2826.4	+4794
30.0	0.985 4394	1065.7		0.151 0813	6506.5		0.065 5304	2822.4	
30.5	0.984 1243	1126.2	2117	0.158 8833	6496.6	IO994	0.068 9147	2818.1	4782
31.0	0.982 7365	1186.6		0.166 6731	6486.4		0.072 2938	2813.7	
31.5	0.981 2764	1246.9	2324	0.174 4505	6475.8	IO962	0.075 6675	2809.1	4768
<b>April</b> 1.0	+0.979 7440	1307.1		+0.182 2149	6464.7		+0.079 0356	2804.3	
1.5	0.978 1394	1367.2	—2530	0.189 9657	6453.2	+IO927	0.082 3978	2799.3	+4752
2.0	0.976 4628	1427.1		0.197 7024	6441.2		0.085 7539	2794.1	
2.5	0.974 7144	1486.9	2735	0.205 4244	6428.8	IO889	0.089 1037	2788.8	4735
3.0	0.972 8942	1546.6		0.213 1312	6416.0		0.092 4471	2783.3	
3.5	0.971 0025	1606.2	2939	0.220 8225	6402.7	IO848	0.095 7836	2777.5	4717
4.0	+0.969 0394	1665.6		+0.228 4975	6388.9		+0.099 1130	2771.6	
4.5	0.967 0051	1724.9	—3143	0.236 1557	6374.8	+IO803	0.102 4353	2765.5	+4697
5.0	0.964 8997	1784.1		0.243 7968	6360.2		0.105 7500	2759.1	
5.5	0.962 7233	1843.1	3346	0.251 4201	6345.1	IO755	0.109 0570	2752.6	4677
6.0	0.960 4763	1901.9		0.259 0250	6329.6		0.112 3562	2746.0	
6.5	0.958 1587	1960.7	3548	0.266 6111	6313.8	IO703	0.115 6472	2739.0	4655
7.0	+0.955 7707	2019.3		+0.274 1779	6297.5		+0.118 9297	2731.9	
7.5	0.953 3125	2077.7	—3749	0.281 7248	6280.7	+IO648	0.122 2036	2724.6	+4632
8.0	0.950 7843	2136.0		0.289 2513	6263.4		0.125 4687	2717.1	
8.5	0.948 1861	2194.2	3948	0.296 7568	6245.6	IO591	0.128 7245	2709.4	4607
9.0	0.945 5182	2252.2		0.304 2407	6227.5		0.131 9711	2701.6	
9.5	0.942 7808	2310.0	4147	0.311 7026	6209.0	IO531	0.135 2082	2693.5	4580
10.0	+0.939 9741	2367.7		+0.319 1420	6190.0		+0.138 4354	2685.1	
10.5	0.937 0983	2425.3	—4344	0.326 5584	6170.5	+IO468	0.141 6525	2676.6	+4552
11.0	0.934 1534	2482.7		0.333 9511	6150.5		0.144 8593	2668.0	
11.5	0.931 1399	2539.8	4540	0.341 3195	6130.2	IO402	0.148 0557	2659.2	4523
12.0	0.928 0580	2596.7		0.348 6633	6109.4		0.151 2413	2650.1	
12.5	0.924 9078	2653.5	4735	0.355 9819	6088.1	IO332	0.154 4159	2640.8	4493



## Mittleres Äquinoktium 1920.0

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1920.0								
	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>1920</b>									
<b>April</b> 12.5	+0.924 9078	2653.5	-4735	+0.355 9819	6088.1	+10332	+0.154 4159	2640.8	+4493
13.0	0.921 6896	2710.1		0.363 2746	6066.3		0.157 5792	2631.4	
13.5	0.918 4035	2766.6	4928	0.370 5410	6044.1	10259	0.160 7311	2621.7	4461
14.0	0.915 0498	2822.9		0.377 7804	6021.5		0.163 8713	2611.9	
14.5	0.911 6287	2878.9	5120	0.384 9925	5998.4	10183	0.166 9995	2601.8	4428
15.0	0.908 1405	2934.7		0.392 1765	5974.8		0.170 1155	2591.6	
15.5	+0.904 5856	2990.2	-5310	+0.399 3319	5950.8	+10104	+0.173 2192	2581.1	+4394
16.0	0.900 9641	3045.6		0.406 4583	5926.4		0.176 3101	2570.5	
16.5	0.897 2763	3100.7	5499	0.413 5550	5901.4	10022	0.179 3882	2559.7	4358
17.0	0.893 5226	3155.6		0.420 6215	5876.0		0.182 4532	2548.6	
17.5	0.889 7031	3210.2	5686	0.427 6573	5850.1	9937	0.185 5047	2537.3	4322
18.0	0.885 8182	3264.5		0.434 6616	5823.7		0.188 5426	2525.9	
18.5	+0.881 8683	3318.6	-5872	+0.441 6340	5796.9	+ 9850	+0.191 5667	2514.2	+4284
19.0	0.877 8536	3372.4		0.448 5741	5769.7		0.194 5767	2502.4	
19.5	0.873 7746	3425.9	6056	0.455 4812	5742.1	9759	0.197 5724	2490.4	4245
20.0	0.869 6315	3479.1		0.462 3549	5714.0		0.200 5536	2478.2	
20.5	0.865 4248	3532.0	6238	0.469 1946	5685.4	9666	0.203 5201	2465.8	4204
21.0	0.861 1548	3584.5		0.475 9997	5656.4		0.206 4715	2453.2	
21.5	+0.856 8220	3636.7	-6418	+0.482 7697	5627.0	+ 9569	+0.209 4078	2440.5	+4162
22.0	0.852 4268	3688.6		0.489 5043	5597.2		0.212 3287	2427.6	
22.5	0.847 9695	3740.2	6596	0.496 2028	5566.9	9470	0.215 2339	2414.5	4119
23.0	0.843 4504	3791.5		0.502 8647	5536.2		0.218 1234	2401.3	
23.5	0.838 8701	3842.3	6773	0.509 4896	5505.2	9368	0.220 9969	2387.9	4075
24.0	0.834 2289	3892.8		0.516 0772	5473.9		0.223 8542	2374.3	
24.5	+0.829 5274	3943.0	-6947	+0.522 6269	5442.2	+ 9264	+0.226 6951	2360.5	+4029
25.0	0.824 7658	3992.9		0.529 1383	5410.0		0.229 5194	2346.6	
25.5	0.819 9446	4042.4	7119	0.535 6109	5377.5	9157	0.232 3269	2332.6	3983
26.0	0.815 0643	4091.5		0.542 0443	5344.7		0.235 1174	2318.4	
26.5	0.810 1252	4140.3	7289	0.548 4382	5311.6	9047	0.237 8909	2304.0	3935
27.0	0.805 1277	4188.8		0.554 7921	5278.1		0.240 6470	2289.5	
27.5	+0.800 0721	4237.0	-7457	+0.561 1056	5244.2	+ 8935	+0.243 3857	2274.9	+3886
28.0	0.794 9590	4284.8		0.567 3782	5210.0		0.246 1068	2260.1	
28.5	0.789 7888	4332.2	7623	0.573 6096	5175.6	8820	0.248 8100	2245.2	3836
29.0	0.784 5618	4379.4		0.579 7996	5140.9		0.251 4952	2230.1	
29.5	0.779 2784	4426.2	7787	0.585 9476	5105.7	8702	0.254 1622	2214.9	3785
30.0	0.773 9391	4472.6		0.592 0531	5070.2		0.256 8109	2199.5	
30.5	+0.768 5443	4518.7	-7949	+0.598 1159	5034.4	+ 8582	+0.259 4410	2184.0	+3732
<b>Mai</b> 1.0	0.763 0943	4564.5		0.604 1355	4998.3		0.262 0525	2168.4	
1.5	0.757 5895	4610.0	8108	0.610 1116	4961.9	8460	0.264 6451	2152.6	3679
2.0	0.752 0303	4655.2		0.616 0439	4925.2		0.267 2186	2136.6	
2.5	0.746 4172	4700.1	8265	0.621 9319	4888.1	8335	0.269 7730	2120.6	3625
3.0	0.740 7504	4744.6		0.627 7753	4850.8		0.272 3080	2104.4	

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1920.0								
	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
1920									
Mai 3.0	+0.740 7504	4744.6		+0.627 7753	4850.8		+0.272 3080	2104.4	
3.5	0.735 0304	4788.7	- 8420	0.633 5737	4813.1	+8208	0.274 8234	2088.0	+3570
4.0	0.729 2577	4832.4		0.639 3266	4775.0		0.277 3192	2071.5	
4.5	0.723 4327	4875.9	8572	0.645 0337	4736.7	8078	0.279 7951	2054.9	3513
5.0	0.717 5557	4919.0		0.650 6946	4698.1		0.282 2509	2038.1	
5.5	0.711 6271	4961.9	8722	0.656 3090	4659.1	7946	0.284 6865	2021.3	3455
6.0	+0.705 6472	5004.4		+0.661 8764	4619.9		+0.287 1019	2004.3	
6.5	0.699 6166	5046.5	- 8869	0.667 3966	4580.4	+7812	0.289 4967	1987.1	+3397
7.0	0.693 5358	5088.2		0.672 8692	4540.6		0.291 8708	1969.7	
7.5	0.687 4051	5129.7	9013	0.678 2938	4500.4	7675	0.294 2240	1952.2	3338
8.0	0.681 2247	5170.8		0.683 6700	4459.8		0.296 5561	1934.6	
8.5	0.674 9952	5211.4	9155	0.688 9973	4419.0	7536	0.298 8670	1916.9	3278
9.0	+0.668 7173	5251.7		+0.694 2754	4377.8		+0.301 1566	1899.1	
9.5	0.662 3912	5291.8	- 9294	0.699 5039	4336.3	+7395	0.303 4247	1881.1	+3217
10.0	0.656 0172	5331.5		0.704 6824	4294.5		0.305 6711	1862.9	
10.5	0.649 5958	5370.7	9431	0.709 8106	4252.5	7252	0.307 8956	1844.6	3155
11.0	0.643 1277	5409.5		0.714 8882	4210.2		0.310 0980	1826.1	
11.5	0.636 6132	5448.1	9565	0.719 9149	4167.6	7107	0.312 2782	1807.6	3092
12.0	+0.630 0525	5486.3		+0.724 8902	4124.6		+0.314 4361	1788.9	
12.5	0.623 4463	5524.0	- 9697	0.729 8137	4081.2	+6960	0.316 5716	1770.1	+3027
13.0	0.616 7951	5561.3		0.734 6850	4037.5		0.318 6844	1751.2	
13.5	0.610 0993	5598.3	9825	0.739 5037	3993.6	6811	0.320 7744	1732.1	2962
14.0	0.603 3594	5634.9		0.744 2695	3949.3		0.322 8414	1712.9	
14.5	0.596 5758	5671.0	9951	0.748 9820	3904.8	6660	0.324 8854	1693.6	2896
15.0	+0.589 7492	5706.7		+0.753 6410	3860.0		+0.326 9059	1674.0	
15.5	0.582 8799	5742.0	-10074	0.758 2459	3814.7	+6507	0.328 9029	1654.3	+2829
16.0	0.575 9685	5776.9		0.762 7962	3769.1		0.330 8763	1634.6	
16.5	0.569 0156	5811.3	10194	0.767 2918	3723.4	6352	0.332 8259	1614.8	2762
17.0	0.562 0216	5845.3		0.771 7324	3677.4		0.334 7517	1594.8	
17.5	0.554 9871	5878.8	10311	0.776 1175	3631.1	6195	0.336 6535	1574.8	2694
18.0	+0.547 9127	5911.8		+0.780 4469	3584.5		+0.338 5312	1554.6	
18.5	0.540 7990	5944.3	-10425	0.784 7202	3537.6	+6037	0.340 3845	1534.2	+2625
19.0	0.533 6466	5976.4		0.788 9371	3490.5		0.342 2133	1513.8	
19.5	0.526 4559	6008.0	10536	0.793 0973	3443.1	5876	0.344 0176	1493.2	2555
20.0	0.519 2276	6039.1		0.797 2005	3395.5		0.345 7971	1472.5	
20.5	0.511 9623	6069.7	10645	0.801 2464	3347.6	5714	0.347 5517	1451.8	2485
21.0	+0.504 6605	6099.8		+0.805 2346	3299.5		+0.349 2815	1431.0	
21.5	0.497 3229	6129.4	-10750	0.809 1651	3251.2	+5550	0.350 9862	1410.1	+2414
22.0	0.489 9500	6158.6		0.813 0375	3202.7		0.352 6657	1389.1	
22.5	0.482 5424	6187.2	10852	0.816 8516	3154.0	5385	0.354 3201	1368.0	2342
23.0	0.475 1008	6215.4		0.820 6071	3105.1		0.355 9490	1346.8	
23.5	0.467 6256	6243.1	10951	0.824 3039	3056.1	5218	0.357 5525	1325.6	2269

Mittleres Äquinoktium 1920.0									
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>1920</b>									
<b>Mai</b> 23.5	+0.467 6256	6243.1	-10951	+0.824 3039	3056.1	+5218	+0.357 5525	1325.6	+2269
24.0	0.460 1175	6270.3		0.827 9417	3006.9		0.359 1306	1304.4	
24.5	0.452 5770	6297.1	11046	0.831 5204	2957.6	5050	0.360 6831	1283.0	2196
25.0	0.445 0046	6323.4		0.835 0398	2908.1		0.362 2098	1261.5	
25.5	0.437 4010	6349.2	11139	0.838 4997	2858.4	4881	0.363 7106	1240.0	2122
26.0	0.429 7668	6374.5		0.841 8999	2808.6		0.365 1857	1218.5	
26.5	+0.422 1024	6399.4	-11228	+0.845 2402	2758.6	+4710	+0.366 6349	1196.8	+2048
27.0	0.414 4084	6423.9		0.848 5205	2708.4		0.368 0580	1175.1	
27.5	0.406 6854	6447.9	11315	0.851 7404	2658.1	4538	0.369 4551	1153.3	1973
28.0	0.398 9337	6471.4		0.854 8999	2607.6		0.370 8259	1131.4	
28.5	0.391 1542	6494.4	11398	0.857 9987	2557.0	4364	0.372 1703	1109.4	1898
29.0	0.383 3473	6517.1		0.861 0367	2506.4		0.373 4885	1087.5	
29.5	+0.375 5134	6539.3	-11478	+0.864 0139	2455.6	+4189	+0.374 7803	1065.4	+1822
30.0	0.367 6531	6561.1		0.866 9300	2404.6		0.376 0455	1043.3	
30.5	0.359 7670	6582.4	11554	0.869 7849	2353.5	4013	0.377 2842	1021.1	1746
31.0	0.351 8556	6603.2		0.872 5783	2302.1		0.378 4962	998.8	
31.5	0.343 9195	6623.6	11627	0.875 3099	2250.6	3836	0.379 6814	976.5	1669
<b>Juni</b> 1.0	0.335 9591	6643.6		0.877 9798	2199.1		0.380 8399	954.2	
1.5	+0.327 9751	6663.1	-11697	+0.880 5877	2147.4	+3658	+0.381 9715	931.8	+1591
2.0	0.319 9679	6682.1		0.883 1336	2095.6		0.383 0761	909.3	
2.5	0.311 9381	6700.7	11764	0.885 6172	2043.7	3479	0.384 1538	886.8	1513
3.0	0.303 8863	6718.9		0.888 0385	1991.7		0.385 2043	864.2	
3.5	0.295 8129	6736.6	11827	0.890 3972	1939.6	3298	0.386 2277	841.5	1435
4.0	0.287 7186	6753.8		0.892 6933	1887.3		0.387 2239	818.8	
4.5	+0.279 6038	6770.7	-11887	+0.894 9266	1834.8	+3117	+0.388 1927	796.0	+1356
5.0	0.271 4690	6787.1		0.897 0967	1782.2		0.389 1342	773.1	
5.5	0.263 3148	6803.0	11944	0.899 2037	1729.5	2935	0.390 0481	750.2	1277
6.0	0.255 1419	6818.5		0.901 2474	1676.6		0.390 9346	727.3	
6.5	0.246 9506	6833.5	11997	0.903 2276	1623.6	2752	0.391 7936	704.3	1198
7.0	0.238 7416	6848.0		0.905 1441	1570.5		0.392 6249	681.2	
7.5	+0.230 5155	6862.1	-12047	+0.906 9968	1517.3	+2568	+0.393 4285	658.1	+1118
8.0	0.222 2727	6875.7		0.908 7855	1463.9		0.394 2043	634.9	
8.5	0.214 0139	6888.9	12094	0.910 5102	1410.5	2384	0.394 9523	611.7	1037
9.0	0.205 7396	6901.5		0.912 1707	1357.0		0.395 6724	588.5	
9.5	0.197 4504	6913.7	12137	0.913 7669	1303.4	2199	0.396 3646	565.2	956
10.0	0.189 1468	6925.5		0.915 2988	1249.6		0.397 0288	541.8	
10.5	+0.180 8294	6936.7	-12177	+0.916 7660	1195.6	+2013	+0.397 6649	518.3	+ 875
11.0	0.172 4988	6947.5		0.918 1682	1141.5		0.398 2728	494.9	
11.5	0.164 1555	6957.8	12213	0.919 5055	1087.3	1827	0.398 8526	471.4	794
12.0	0.155 8002	6967.5		0.920 7778	1033.1		0.399 4041	447.8	
12.5	0.147 4337	6976.7	12246	0.921 9850	978.8	1640	0.399 9274	424.3	713
13.0	0.139 0563	6985.5		0.923 1269	924.3		0.400 4224	400.7	

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1920.0									
	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	
1920										
Juni 13.0	+0.139 0563	6985.5		+0.923 1269	924.3		+0.400 4224	400.7		
13.5	0.130 6687	6993.7	-12275	0.924 2033	869.8	+1453	0.400 8890	377.0	+ 632	
14.0	0.122 2716	7001.4		0.925 2143	815.1		0.401 3272	353.3		
14.5	0.113 8656	7008.6	12301	0.926 1596	760.4	1265	0.401 7369	329.5	551	
15.0	0.105 4513	7015.2		0.927 0393	705.6		0.402 1181	305.8		
15.5	0.097 0294	7021.2	12323	0.927 8531	650.7	1077	0.402 4707	282.0	469	
16.0	+0.088 6006	7026.7		+0.928 6009	595.7		+0.402 7948	258.2		
16.5	0.080 1656	7031.6	-12342	0.929 2827	540.7	+ 889	0.403 0903	234.3	+ 387	
17.0	0.071 7248	7036.0		0.929 8986	485.8		0.403 3572	210.5		
17.5	0.063 2791	7040.0	12357	0.930 4486	430.9	700	0.403 5956	186.7	304	
18.0	0.054 8290	7043.4		0.930 9327	375.9		0.403 8054	162.9		
18.5	0.046 3752	7046.2	12369	0.931 3507	320.8	511	0.403 9865	139.0	222	
19.0	+0.037 9184	7048.4		+0.931 7026	265.7		+0.404 1390	115.2		
19.5	0.029 4592	7050.1	-12377	0.931 9884	210.7	+ 322	0.404 2629	91.4	+ 140	
20.0	0.020 9983	7051.2		0.932 2082	155.7		0.404 3583	67.6		
20.5	0.012 5364	7051.9	12382	0.932 3620	100.8	+ 133	0.404 4252	43.8	+ 58	
21.0	+0.004 0739	7052.1		0.932 4501	46.0		0.404 4635	20.0		
21.5	-0.004 3886	7051.8	12384	0.932 4723	8.9	- 56	0.404 4733	3.8	- 24	
22.0	-0.012 8503	7050.9		+0.932 4287	63.8		+0.404 4545	27.5		
22.5	0.021 3107	7049.6	-12382	0.932 3193	118.6	- 245	0.404 4073	51.2	- 106	
23.0	0.029 7692	7047.8		0.932 1442	173.3		0.404 3316	75.0		
23.5	0.038 2252	7045.4	12376	0.931 9035	228.0	434	0.404 2274	98.7	189	
24.0	0.046 6780	7042.6		0.931 5972	282.6		0.404 0948	122.3		
24.5	0.055 1271	7039.3	12367	0.931 2253	337.1	623	0.403 9338	145.9	271	
25.0	-0.063 5721	7035.5		+0.930 7881	391.6		+0.403 7445	169.5		
25.5	0.072 0122	7031.3	-12354	0.930 2855	446.1	- 811	0.403 5269	193.2	- 353	
26.0	0.080 4470	7026.6		0.929 7176	500.4		0.403 2809	216.8		
26.5	0.088 8758	7021.3	12338	0.929 0845	554.7	1000	0.403 0066	240.3	435	
27.0	0.097 2980	7015.6		0.928 3863	609.0		0.402 7041	263.9		
27.5	0.105 7132	7009.6	12318	0.927 6229	663.3	1188	0.402 3733	287.5	517	
28.0	-0.114 1209	7003.1		+0.926 7945	717.4		+0.402 0142	311.0		
28.5	0.122 5204	6996.0	-12295	0.925 9012	771.5	-1376	0.401 6269	334.4	- 599	
29.0	0.130 9111	6988.4		0.924 9430	825.5		0.401 2117	357.8		
29.5	0.139 2925	6980.4	12269	0.923 9201	879.4	1563	0.400 7683	381.2	680	
30.0	0.147 6640	6972.0		0.922 8325	933.3		0.400 2968	404.6		
30.5	0.156 0251	6963.2	12239	0.921 6802	987.2	1750	0.399 7972	428.0	762	
Juli 1.0	-0.164 3754	6953.8		+0.920 4633	1040.9		+0.399 2695	451.4		
1.5	0.172 7141	6943.9	-12206	0.919 1820	1094.5	-1937	0.398 7139	474.7	- 843	
2.0	0.181 0407	6933.6		0.917 8364	1148.1		0.398 1303	498.0		
2.5	0.189 3547	6922.9	12169	0.916 4265	1201.7	2123	0.397 5189	521.2	924	
3.0	0.197 6556	6911.8		0.914 9524	1255.2		0.396 8795	544.4		
3.5	0.205 9428	6900.1	12129	0.913 4142	1308.6	2308	0.396 2124	567.6	1004	

## Mittleres Äquinoktium 1920.0

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1920.0									
	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	
1920										
Juli 3.5	-0.205 9428	6900.1	-12129	+0.913 4142	1308.6	-2308	+0.396 2124	567.6	-1004	
4.0	0.214 2157	6888.0		0.911 8119	1361.9		0.395 5174	590.8		
4.5	0.222 4739	6875.4	12086	0.910 1457	1415.1	2493	0.394 7946	613.9	1084	
5.0	0.230 7166	6862.4		0.908 4157	1468.2		0.394 0441	636.9		
5.5	0.238 9435	6849.0	12039	0.906 6220	1521.3	2677	0.393 2660	660.0	1164	
6.0	0.247 1540	6835.0		0.904 7646	1574.3		0.392 4602	683.0		
6.5	-0.255 3474	6820.6	-11989	+0.902 8437	1627.2	-2860	+0.391 6268	706.1	-1244	
7.0	0.263 5232	6805.7		0.900 8594	1680.0		0.390 7657	729.1		
7.5	0.271 6809	6790.3	11935	0.898 8116	1732.8	3042	0.389 8771	751.9	1323	
8.0	0.279 8198	6774.5		0.896 7006	1785.6		0.388 9612	774.7		
8.5	0.287 9395	6758.2	11878	0.894 5263	1838.2	3223	0.388 0178	797.5	1402	
9.0	0.296 0393	6741.4		0.892 2889	1890.6		0.387 0471	820.3		
9.5	-0.304 1187	6724.1	-11818	+0.889 9888	1943.0	-3404	+0.386 0491	843.1	-1480	
10.0	0.312 1770	6706.3		0.887 6258	1995.3		0.385 0237	865.8		
10.5	0.320 2137	6688.0	11754	0.885 2000	2047.6	3584	0.383 9711	888.5	1558	
11.0	0.328 2281	6669.3		0.882 7117	2099.7		0.382 8914	911.1		
11.5	0.336 2198	6650.1	11686	0.880 1609	2151.7	3763	0.381 7846	933.6	1636	
12.0	0.344 1881	6630.3		0.877 5477	2203.6		0.380 6507	956.1		
12.5	-0.352 1323	6610.0	-11615	+0.874 8724	2255.3	-3941	+0.379 4899	978.5	-1713	
13.0	0.360 0519	6589.2		0.872 1350	2306.9		0.378 3023	1000.8		
13.5	0.367 9462	6567.9	11541	0.869 3359	2358.3	4117	0.377 0879	1023.1	1790	
14.0	0.375 8146	6546.1		0.866 4752	2409.6		0.375 8467	1045.4		
14.5	0.383 6567	6523.8	11465	0.863 5529	2460.8	4293	0.374 5789	1067.5	1867	
15.0	0.391 4716	6501.0		0.860 5694	2511.7		0.373 2846	1089.6		
15.5	-0.399 2588	6477.6	-11385	+0.857 5249	2562.5	-4467	+0.371 9638	1111.6	-1943	
16.0	0.407 0176	6453.7		0.854 4194	2613.1		0.370 6167	1133.5		
16.5	0.414 7475	6429.4	11302	0.851 2534	2663.5	4640	0.369 2434	1155.3	2018	
17.0	0.422 4479	6404.6		0.848 0271	2713.6		0.367 8439	1177.1		
17.5	0.430 1183	6379.3	11215	0.844 7408	2763.6	4812	0.366 4184	1198.7	2093	
18.0	0.437 7579	6353.4		0.841 3945	2813.4		0.364 9670	1220.2		
18.5	-0.445 3662	6327.1	-11126	+0.837 9888	2862.8	-4982	+0.363 4899	1241.6	-2167	
19.0	0.452 9427	6300.3		0.834 5239	2912.0		0.361 9871	1263.0		
19.5	0.460 4869	6273.1	11033	0.831 0000	2961.0	5151	0.360 4588	1284.2	2240	
20.0	0.467 9980	6245.5		0.827 4175	3009.8		0.358 9051	1305.3		
20.5	0.475 4758	6217.5	10937	0.823 7766	3058.3	5318	0.357 3260	1326.4	2313	
21.0	0.482 9198	6189.0		0.820 0776	3106.6		0.355 7218	1347.3		
21.5	-0.490 3293	6160.1	-10838	+0.816 3208	3154.6	-5484	+0.354 0926	1368.1	-2385	
22.0	0.497 7039	6130.7		0.812 5067	3202.3		0.352 4384	1388.8		
22.5	0.505 0429	6100.9	10736	0.808 6355	3249.8	5648	0.350 7594	1409.4	2456	
23.0	0.512 3460	6070.7		0.804 7073	3297.1		0.349 0558	1429.9		
23.5	0.519 6126	6040.1	10630	0.800 7225	3344.1	5811	0.347 3277	1450.3	2527	
24.0	0.526 8422	6009.1		0.796 6816	3390.8		0.345 5752	1470.6		

Mittleres Äquinoktium 1920.0									
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.	
1920									
Juli 24.0	-0.526 8422	6009.1		+0.796 6816	3390.8		+0.345 5752	1470.6	
24.5	0.534 0344	5977.8	-10522	0.792 5847	3437.4	-5972	0.343 7984	1490.7	-2597
25.0	0.541 1887	5946.0		0.788 4320	3483.8		0.341 9975	1510.8	
25.5	0.548 3046	5913.8	10411	0.784 2238	3529.8	6131	0.340 1725	1530.9	2667
26.0	0.555 3816	5881.2		0.779 9607	3575.5		0.338 3235	1550.8	
26.5	0.562 4194	5848.2	10297	0.775 6428	3621.0	6289	0.336 4507	1570.5	2735
27.0	-0.569 4172	5814.8		+0.771 2704	3666.2		+0.334 5544	1590.1	
27.5	0.576 3748	5781.1	-10180	0.766 8439	3711.2	-6445	0.332 6346	1609.6	-2803
28.0	0.583 2917	5747.0		0.762 3636	3756.0		0.330 6913	1629.1	
28.5	0.590 1675	5712.5	10060	0.757 8297	3800.4	6599	0.328 7248	1648.4	2870
29.0	0.597 0016	5677.6		0.753 2427	3844.6		0.326 7353	1667.5	
29.5	0.603 7936	5642.4	9937	0.748 6027	3888.6	6751	0.324 7228	1686.6	2936
30.0	-0.610 5432	5606.8		+0.743 9100	3932.4		+0.322 6874	1705.7	
30.5	0.617 2498	5570.8	- 9811	0.739 1650	3975.9	-6901	0.320 6292	1724.6	-3001
31.0	0.623 9129	5534.3		0.734 3680	4019.1		0.318 5484	1743.4	
31.5	0.630 5320	5497.5	9683	0.729 5193	4062.1	7050	0.316 4452	1762.1	3066
Aug. 1.0	0.637 1068	5460.4		0.724 6191	4104.8		0.314 3195	1780.6	
1.5	0.643 6368	5422.9	9552	0.719 6679	4147.2	7197	0.312 1717	1799.0	3129
2.0	-0.650 1216	5385.1		+0.714 6659	4189.4		+0.310 0019	1817.3	
2.5	0.656 5608	5346.8	- 9419	0.709 6135	4231.3	-7341	0.307 8102	1835.5	-3192
3.0	0.662 9538	5308.2		0.704 5110	4273.0		0.305 5967	1853.6	
3.5	0.669 3003	5269.2	9283	0.699 3585	4314.4	7483	0.303 3615	1871.7	3254
4.0	0.675 5997	5229.8		0.694 1565	4355.6		0.301 1047	1889.6	
4.5	0.681 8516	5190.0	9144	0.688 9052	4396.5	7623	0.298 8266	1907.3	3315
5.0	-0.688 0556	5149.9		+0.683 6050	4437.1		+0.296 5272	1924.9	
5.5	0.694 2112	5109.4	- 9003	0.678 2563	4477.4	-7761	0.294 2068	1942.4	-3375
6.0	0.700 3180	5068.5		0.672 8594	4517.5		0.291 8655	1959.8	
6.5	0.706 3754	5027.2	8859	0.667 4145	4557.3	7897	0.289 5034	1977.1	3434
7.0	0.712 3831	4985.5		0.661 9220	4596.8		0.287 1205	1994.3	
7.5	0.718 3405	4943.5	8712	0.656 3823	4636.0	8031	0.284 7172	2011.3	3493
8.0	-0.724 2473	4901.0		+0.650 7957	4675.0		+0.282 2936	2028.2	
8.5	0.730 1029	4858.1	- 8563	0.645 1625	4713.6	-8162	0.279 8497	2044.9	-3550
9.0	0.735 9067	4814.8		0.639 4832	4751.9		0.277 3859	2061.4	
9.5	0.741 6584	4771.2	8412	0.633 7581	4789.9	8291	0.274 9023	2077.9	3606
10.0	0.747 3574	4727.2		0.627 9875	4827.7		0.272 3989	2094.3	
10.5	0.753 0034	4682.8	8258	0.622 1718	4865.1	8418	0.269 8760	2110.5	3661
11.0	-0.758 5959	4638.0		+0.616 3114	4902.2		+0.267 3338	2126.5	
11.5	0.764 1344	4592.7	- 8101	0.610 4067	4938.9	-8542	0.264 7724	2142.4	-3715
12.0	0.769 6183	4547.1		0.604 4583	4975.2		0.262 1921	2158.1	
12.5	0.775 0473	4501.1	7942	0.598 4665	5011.2	8664	0.259 5931	2173.6	3768
13.0	0.780 4209	4454.7		0.592 4316	5046.8		0.256 9754	2189.1	
13.5	0.785 7385	4407.9	7781	0.586 3543	5082.0	8783	0.254 3393	2204.4	3820

Mittleres Äquinoktium 1920.0									
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>1920</b>									
<b>Aug. 13.5</b>	-0.785 7385	4407.9	-7781	+0.586 3543	5082.0	- 8783	+0.254 3393	2204.4	-3820
14.0	0.790 9998	4360.9		0.580 2350	5116.8		0.251 6850	2219.5	
14.5	0.796 2046	4313.6	7618	0.574 0741	5151.2	8900	0.249 0127	2234.4	3871
15.0	0.801 3522	4265.8		0.567 8722	5185.3		0.246 3226	2249.1	
15.5	0.806 4423	4217.7	7453	0.561 6295	5219.0	9014	0.243 6149	2263.6	3921
16.0	0.811 4745	4169.3		0.555 3468	5252.2		0.240 8899	2278.0	
16.5	-0.816 4484	4120.5	-7285	+0.549 0245	5285.0	- 9126	+0.238 1477	2292.3	-3969
17.0	0.821 3636	4071.5		0.542 6629	5317.5		0.235 3885	2306.3	
17.5	0.826 2199	4022.1	7116	0.536 2626	5349.6	9235	0.232 6127	2320.1	4017
18.0	0.831 0167	3972.5		0.529 8241	5381.2		0.229 8203	2333.8	
18.5	0.835 7538	3922.7	6944	0.523 3480	5412.3	9341	0.227 0115	2347.4	4063
19.0	0.840 4310	3872.6		0.516 8347	5443.1		0.224 1866	2360.7	
19.5	-0.845 0478	3822.1	-6770	+0.510 2847	5473.5	- 9445	+0.221 3458	2373.9	-4108
20.0	0.849 6039	3771.4		0.503 6984	5503.5		0.218 4892	2387.0	
20.5	0.854 0990	3720.4	6595	0.497 0764	5533.0	9546	0.215 6171	2399.8	4152
21.0	0.858 5328	3669.2		0.490 4193	5562.1		0.212 7298	2412.4	
21.5	0.862 9050	3617.8	6418	0.483 7274	5590.9	9644	0.209 8273	2424.9	4195
22.0	0.867 2154	3566.2		0.477 0012	5619.3		0.206 9100	2437.2	
22.5	-0.871 4637	3514.3	-6239	+0.470 2412	5647.3	- 9740	+0.203 9780	2449.4	-4236
23.0	0.875 6495	3462.1		0.463 4479	5674.9		0.201 0314	2461.4	
23.5	0.879 7725	3409.6	6058	0.456 6217	5702.1	9833	0.198 0706	2473.2	4276
24.0	0.883 8324	3357.0		0.449 7631	5728.9		0.195 0958	2484.8	
24.5	0.887 8291	3304.1	5875	0.442 8726	5755.2	9923	0.192 1071	2496.3	4315
25.0	0.891 7621	3251.0		0.435 9507	5781.2		0.189 1048	2507.5	
25.5	-0.895 6313	3197.7	-5691	+0.428 9979	5806.7	-10010	+0.186 0891	2518.6	-4353
26.0	0.899 4365	3144.2		0.422 0147	5831.8		0.183 0601	2529.6	
26.5	0.903 1774	3090.4	5505	0.415 0016	5856.6	10094	0.180 0180	2540.3	4390
27.0	0.906 8535	3036.4		0.407 9590	5881.0		0.176 9633	2550.9	
27.5	0.910 4647	2982.3	5317	0.400 8873	5905.0	10175	0.173 8959	2561.5	4425
28.0	0.914 0109	2928.0		0.393 7871	5928.6		0.170 8159	2571.8	
28.5	-0.917 4918	2873.4	-5128	+0.386 6588	5951.8	-10254	+0.167 7237	2581.8	-4459
29.0	0.920 9071	2818.6		0.379 5030	5974.6		0.164 6197	2591.7	
29.5	0.924 2564	2763.6	4938	0.372 3200	5997.1	10329	0.161 5038	2601.5	4492
30.0	0.927 5397	2708.5		0.365 1103	6019.1		0.158 3762	2611.1	
30.5	0.930 7567	2653.1	4746	0.357 8744	6040.6	10402	0.155 2373	2620.4	4524
31.0	0.933 9071	2597.5		0.350 6130	6061.7		0.152 0872	2629.6	
31.5	-0.936 9906	2541.7	-4553	+0.343 3264	6082.6	-10471	+0.148 9262	2638.7	-4554
<b>Sept. 1.0</b>	0.940 0071	2485.7		0.336 0150	6103.1		0.145 7544	2647.6	
1.5	0.942 9562	2429.4	4358	0.328 6792	6123.2	10538	0.142 5721	2656.3	4583
2.0	0.945 8377	2373.0		0.321 3195	6142.9		0.139 3794	2664.9	
2.5	0.948 6513	2316.4	4162	0.313 9364	6162.1	10601	0.136 1765	2673.2	4611
3.0	0.951 3969	2259.6		0.306 5305	6181.0		0.132 9637	2681.4	

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1920.0								
	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
1920									
Sept. 3.0	-0.951 3969	2259.6		+0.306 5305	6181.0		+0.132 9637	2681.4	
3.5	0.954 0742	2202.6	-3965	0.299 1022	6199.4	-10662	0.129 7412	2689.4	-4637
4.0	0.956 6830	2145.4		0.291 6521	6217.4		0.126 5092	2697.2	
4.5	0.959 2231	2087.9	3767	0.284 1807	6235.0	10720	0.123 2680	2704.8	4662
5.0	0.961 6940	2030.2		0.276 6883	6252.2		0.120 0178	2712.2	
5.5	0.964 0955	1972.3	3568	0.269 1755	6269.0	10774	0.116 7588	2719.5	4685
6.0	-0.966 4275	1914.2		+0.261 6429	6285.3		+0.113 4910	2726.6	
6.5	0.968 6896	1855.9	-3368	0.254 0909	6301.2	-10825	0.110 2149	2733.4	-4707
7.0	0.970 8816	1797.4		0.246 5201	6316.7		0.106 9308	2740.1	
7.5	0.973 0033	1738.7	3166	0.238 9311	6331.7	10873	0.103 6388	2746.6	4728
8.0	0.975 0545	1679.9		0.231 3244	6346.2		0.100 3391	2752.9	
8.5	0.977 0349	1620.8	2963	0.223 7005	6360.2	10918	0.097 0320	2758.9	4748
9.0	-0.978 9442	1561.5		+0.216 0600	6373.8		+0.093 7178	2764.7	
9.5	0.980 7824	1502.1	-2760	0.208 4036	6386.9	-10960	0.090 3967	2770.4	-4766
10.0	0.982 5492	1442.5		0.200 7316	6399.6		0.087 0689	2775.8	
10.5	0.984 2444	1382.8	2556	0.193 0448	6411.7	10999	0.083 7348	2781.0	4783
11.0	0.985 8679	1323.0		0.185 3439	6423.2		0.080 3946	2786.0	
11.5	0.987 4195	1262.9	2351	0.177 6293	6434.3	11034	0.077 0484	2790.8	4798
12.0	-0.988 8988	1202.7		+0.169 9017	6445.0		+0.073 6966	2795.4	
12.5	0.990 3058	1142.4	-2146	0.162 1616	6455.1	-11066	0.070 3395	2799.8	-4812
13.0	0.991 6405	1082.1		0.154 4097	6464.7		0.066 9772	2804.0	
13.5	0.992 9027	1021.6	1940	0.146 6465	6473.8	11095	0.063 6100	2807.9	4825
14.0	0.994 0923	961.0		0.138 8728	6482.4		0.060 2384	2811.6	
14.5	0.995 2091	900.3	1733	0.131 0890	6490.5	11121	0.056 8623	2815.1	4836
15.0	-0.996 2530	839.5		+0.123 2958	6498.1		+0.053 4822	2818.3	
15.5	0.997 2240	778.8	-1526	0.115 4938	6505.1	-11143	0.050 0984	2821.4	-4846
16.0	0.998 1220	718.0		0.107 6837	6511.7		0.046 7109	2824.3	
16.5	0.998 9471	657.1	1319	0.099 8659	6517.8	11162	0.043 3201	2826.9	4855
17.0	0.999 6990	596.1		0.092 0412	6523.4		0.039 9264	2829.3	
17.5	1.000 3778	535.2	1111	0.084 2100	6528.5	11178	0.036 5299	2831.6	4862
18.0	-1.000 9834	474.2		+0.076 3730	6533.1		+0.033 1307	2833.6	
18.5	1.001 5158	413.2	-903	0.068 5307	6537.2	-11191	0.029 7293	2835.4	-4867
19.0	1.001 9751	352.2		0.060 6838	6540.9		0.026 3259	2837.0	
19.5	1.002 3611	291.0	694	0.052 8328	6544.0	11200	0.022 9206	2838.4	4871
20.0	1.002 6736	229.8		0.044 9783	6546.7		0.019 5138	2839.6	
20.5	1.002 9128	168.8	486	0.037 1208	6549.0	11206	0.016 1057	2840.6	4873
21.0	-1.003 0789	107.8		+0.029 2610	6550.7		+0.012 6965	2841.4	
21.5	1.003 1716	46.7	-277	0.021 3994	6552.0	-11208	0.009 2865	2841.9	-4874
22.0	1.003 1909	14.5		0.013 5365	6552.7		0.005 8759	2842.3	
22.5	1.003 1368	75.6	-69	+0.005 6730	6553.0	11208	+0.002 4650	2842.5	4874
23.0	1.003 0094	136.7		-0.002 1906	6552.9		-0.000 9460	2842.5	
23.5	1.002 8087	197.8	+140	0.010 0538	6552.3	11204	0.004 3569	2842.2	4872



## Mittleres Äquinoktium 1920.0

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.	
<b>1920</b>									
<b>Sept. 23.5</b>	-1.002 8087	197.8	+ 140	-0.010 0538	6552.3	-11204	-0.004 3569	2842.2	-4872
24.0	1.002 5346	258.9		0.017 9160	6551.2		0.007 7673	2841.7	
24.5	1.002 1874	319.9	349	0.025 7766	6549.7	11197	0.011 1770	2841.1	4869
25.0	1.001 7669	380.9		0.033 6351	6547.7		0.014 5858	2840.2	
25.5	1.001 2732	441.9	558	0.041 4909	6545.3	11187	0.017 9935	2839.2	4865
26.0	1.000 7063	503.0		0.049 3435	6542.4		0.021 3999	2838.0	
26.5	-1.000 0661	564.0	+ 767	-0.057 1924	6539.0	-11174	-0.024 8047	2836.6	-4859
27.0	0.999 3528	624.8		0.065 0369	6535.1		0.028 2078	2835.0	
27.5	0.998 5665	685.7	975	0.072 8766	6530.9	11157	0.031 6088	2833.1	4852
28.0	0.997 7091	746.6		0.080 7110	6526.3		0.035 0073	2831.1	
28.5	0.996 7747	807.4	1183	0.088 5396	6521.2	11137	0.038 4034	2829.0	4843
29.0	0.995 7693	868.2		0.096 3618	6515.7		0.041 7968	2826.6	
29.5	-0.994 6909	929.1	+1391	-0.104 1771	6509.6	-11113	-0.045 1871	2824.0	-4833
30.0	0.993 5395	989.9		0.111 9847	6503.1		0.048 5742	2821.2	
30.5	0.992 3152	1050.7	1598	0.119 7843	6496.2	11087	0.051 9578	2818.2	4821
<b>Okt. 1.0</b>	0.991 0179	1111.4		0.127 5754	6488.9		0.055 3377	2815.0	
1.5	0.989 6478	1172.1	1805	0.135 3575	6481.1	11057	0.058 7136	2811.6	4808
2.0	0.988 2048	1232.8		0.143 1299	6472.8		0.062 0854	2808.0	
2.5	-0.986 6890	1293.5	+2011	-0.150 8921	6464.1	-11024	-0.065 4527	2804.2	-4794
3.0	0.985 1004	1354.2		0.158 6436	6455.0		0.068 8153	2800.2	
3.5	0.983 4390	1414.8	2217	0.166 3838	6445.3	10987	0.072 1730	2795.9	4778
4.0	0.981 7048	1475.4		0.174 1120	6435.1		0.075 5255	2791.5	
4.5	0.979 8980	1535.9	2422	0.181 8277	6424.4	10948	0.078 8725	2786.8	4761
5.0	0.978 0186	1596.4		0.189 5303	6413.3		0.082 2138	2782.0	
5.5	-0.976 0667	1656.8	+2626	-0.197 2193	6401.7	-10905	-0.085 5492	2776.9	-4742
6.0	0.974 0422	1717.2		0.204 8942	6389.6		0.088 8783	2771.6	
6.5	0.971 9453	1777.5	2830	0.212 5542	6377.0	10858	0.092 2009	2766.1	4722
7.0	0.969 7761	1837.8		0.220 1988	6363.9		0.095 5168	2760.4	
7.5	0.967 5345	1898.0	3033	0.227 8273	6350.2	10808	0.098 8257	2754.4	4700
8.0	0.965 2208	1958.1		0.235 4392	6336.1		0.102 1273	2748.2	
8.5	-0.962 8351	2018.1	+3235	-0.243 0338	6321.5	-10755	-0.105 4214	2741.9	-4677
9.0	0.960 3774	2078.0		0.250 6106	6306.4		0.108 7078	2735.3	
9.5	0.957 8480	2137.7	3436	0.258 1689	6290.7	10699	0.111 9861	2728.5	4653
10.0	0.955 2469	2197.4		0.265 7080	6274.5		0.115 2562	2721.5	
10.5	0.952 5743	2256.9	3636	0.273 2274	6257.8	10641	0.118 5176	2714.2	4628
11.0	0.949 8304	2316.2		0.280 7264	6240.5		0.121 7701	2706.6	
11.5	-0.947 0154	2375.4	+3834	-0.288 2044	6222.8	-10579	-0.125 0134	2698.9	-4601
12.0	0.944 1295	2434.4		0.295 6609	6204.6		0.128 2474	2691.0	
12.5	0.941 1729	2493.3	4032	0.303 0953	6185.9	10514	0.131 4718	2682.9	4573
13.0	0.938 1457	2552.0		0.310 5068	6166.6		0.134 6863	2674.5	
13.5	0.935 0482	2610.4	4228	0.317 8950	6146.9	10445	0.137 8906	2666.0	4543
14.0	0.931 8807	2668.6		0.325 2592	6126.7		0.141 0847	2657.3	

Mittleres Äquinoktium 1920.0									
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
1920									
Okt. 14.0	—0.931 8807	2668.6		—0.325 2592	6126.7		—0.141 0847	2657.3	
14.5	0.928 6435	2726.7	+4424	0.332 5988	6105.9	—10373	0.144 2681	2648.3	—4512
15.0	0.925 3367	2784.6		0.339 9132	6084.7		0.147 4406	2639.2	
15.5	0.921 9606	2842.2	4618	0.347 2019	6063.0	10298	0.150 6020	2629.7	4479
16.0	0.918 5155	2899.6		0.354 4643	6040.9		0.153 7519	2620.1	
16.5	0.915 0016	2956.9	4810	0.361 7000	6018.4	10220	0.156 8902	2610.3	4445
17.0	—0.911 4190	3013.9		—0.368 9083	5995.3		—0.160 0166	2600.3	
17.5	0.907 7682	3070.6	+5001	0.376 0886	5971.8	—10139	0.163 1309	2590.2	—4410
18.0	0.904 0496	3127.0		0.383 2403	5947.8		0.166 2330	2579.8	
18.5	0.900 2634	3183.3	5191	0.390 3630	5923.4	10056	0.169 3225	2569.2	4373
19.0	0.896 4098	3239.3		0.397 4562	5898.5		0.172 3991	2558.4	
19.5	0.892 4891	3295.1	5379	0.404 5192	5873.1	9969	0.175 4627	2547.5	4335
20.0	—0.888 5016	3350.6		—0.411 5515	5847.4		—0.178 5131	2536.4	
20.5	0.884 4477	3405.8	+5565	0.418 5527	5821.2	— 9879	0.181 5500	2525.0	—4296
21.0	0.880 3277	3460.8		0.425 5222	5794.5		0.184 5731	2513.5	
21.5	0.876 1418	3515.6	5750	0.432 4594	5767.4	9786	0.187 5823	2501.8	4256
22.0	0.871 8904	3570.1		0.439 3639	5740.0		0.190 5774	2489.9	
22.5	0.867 5738	3624.3	5933	0.446 2353	5712.1	9690	0.193 5581	2477.9	4214
23.0	—0.863 1922	3678.3		—0.453 0728	5683.8		—0.196 5242	2465.6	
23.5	0.858 7461	3732.0	+6114	0.459 8762	5655.1	— 9591	0.199 4755	2453.2	—4171
24.0	0.854 2357	3785.3		0.466 6448	5625.9		0.202 4118	2440.6	
24.5	0.849 6615	3838.3	6293	0.473 3783	5596.4	9489	0.205 3329	2427.8	4127
25.0	0.845 0239	3891.2		0.480 0760	5566.5		0.208 2385	2414.8	
25.5	0.840 3229	3943.8	6470	0.486 7376	5536.2	9385	0.211 1284	2401.6	4081
26.0	—0.835 5589	3996.1		—0.493 3627	5505.5		—0.214 0023	2388.3	
26.5	0.830 7323	4048.1	+6645	0.499 9507	5474.3	— 9278	0.216 8602	2374.9	—4035
27.0	0.825 8435	4099.8		0.506 5010	5442.8		0.219 7020	2361.3	
27.5	0.820 8928	4151.3	6819	0.513 0134	5411.0	9168	0.222 5274	2347.5	3987
28.0	0.815 8804	4202.6		0.519 4873	5378.8		0.225 3359	2333.4	
28.5	0.810 8067	4253.6	6991	0.525 9224	5346.2	9055	0.228 1275	2319.2	3938
29.0	—0.805 6720	4304.3		—0.532 3179	5313.1		—0.230 9020	2304.9	
29.5	0.800 4766	4354.7	+7160	0.538 6736	5279.7	— 8940	0.233 6592	2290.4	—3888
30.0	0.795 2209	4404.8		0.544 9890	5245.9		0.236 3989	2275.7	
30.5	0.789 9052	4454.7	7327	0.551 2636	5211.6	8821	0.239 1209	2260.9	3837
31.0	0.784 5297	4504.4		0.557 4968	5177.0		0.241 8250	2245.9	
31.5	0.779 0948	4553.7	7492	0.563 6883	5142.1	8700	0.244 5109	2230.6	3784
Nov. 1.0	—0.773 6010	4602.8		—0.569 8376	5106.7		—0.247 1784	2215.2	
1.5	0.768 0483	4651.6	+7655	0.575 9442	5070.8	— 8577	0.249 8273	2199.6	—3730
2.0	0.762 4373	4700.1		0.582 0073	5034.5		0.252 4574	2183.8	
2.5	0.756 7683	4748.3	7815	0.588 0267	4997.8	8451	0.255 0684	2167.9	3675
3.0	0.751 0416	4796.2		0.594 0019	4960.7		0.257 6603	2151.8	
3.5	0.745 2576	4843.8	7973	0.599 9323	4923.2	8322	0.260 2327	2135.5	3619

Mittleres Äquinoktium 1920.0									
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
1920									
Nov. 3.5	-0.745 2576	4843.8	+ 7973	-0.599 9323	4923.2	-8322	-0.260 2327	2135.5	-3619
4.0	0.739 4167	4891.1		0.605 8175	4885.3		0.262 7854	2119.0	
4.5	0.733 5192	4938.0	8129	0.611 6570	4847.0	8191	0.265 3182	2102.4	3562
5.0	0.727 5657	4984.5		0.617 4501	4808.2		0.267 8310	2085.5	
5.5	0.721 5565	5030.7	8282	0.623 1965	4769.0	8057	0.270 3234	2068.4	3504
6.0	0.715 4921	5076.6		0.628 8956	4729.4		0.272 7952	2051.2	
6.5	-0.709 3729	5122.1	+ 8433	-0.634 5470	4689.4	-7921	-0.275 2462	2033.9	-3445
7.0	0.703 1993	5167.2		0.640 1501	4649.0		0.277 6764	2016.4	
7.5	0.696 9717	5212.0	8581	0.645 7045	4608.2	7782	0.280 0854	1998.7	3385
8.0	0.690 6907	5256.3		0.651 2096	4566.9		0.282 4731	1980.8	
8.5	0.684 3567	5300.2	8726	0.656 6649	4525.3	7641	0.284 8392	1962.7	3323
9.0	0.677 9703	5343.7		0.662 0701	4483.3		0.287 1834	1944.4	
9.5	-0.671 5319	5386.9	+ 8869	-0.667 4247	4440.9	-7498	-0.289 5057	1926.0	-3260
10.0	0.665 0420	5429.6		0.672 7281	4398.1		0.291 8058	1907.4	
10.5	0.658 5011	5471.9	9009	0.677 9800	4355.0	7352	0.294 0835	1888.7	3197
11.0	0.651 9097	5513.7		0.683 1799	4311.4		0.296 3387	1869.9	
11.5	0.645 2684	5555.2	9146	0.688 3273	4267.5	7204	0.298 5712	1850.9	3133
12.0	0.638 5775	5596.2		0.693 4218	4223.3		0.300 7807	1831.7	
12.5	-0.631 8378	5636.7	+ 9281	-0.698 4631	4178.8	-7054	-0.302 9672	1812.4	-3068
13.0	0.625 0498	5676.7		0.703 4508	4133.9		0.305 1305	1793.0	
13.5	0.618 2140	5716.2	9412	0.708 3844	4088.6	6902	0.307 2703	1773.3	3002
14.0	0.611 3310	5755.4		0.713 2634	4043.0		0.309 3863	1753.5	
14.5	0.604 4012	5794.1	9541	0.718 0876	3997.1	6747	0.311 4786	1733.7	2935
15.0	0.597 4253	5832.4		0.722 8563	3950.8		0.313 5471	1713.7	
15.5	-0.590 4037	5870.1	+ 9667	-0.727 5695	3904.3	-6591	-0.315 5915	1693.5	-2866
16.0	0.583 3372	5907.4		0.732 2266	3857.5		0.317 6115	1673.2	
16.5	0.576 2262	5944.3	9790	0.736 8273	3810.4	6433	0.319 6071	1652.9	2797
17.0	0.569 0711	5980.7		0.741 3713	3763.1		0.321 5783	1632.4	
17.5	0.561 8727	6016.5	9910	0.745 8585	3715.4	6273	0.323 5247	1611.7	2727
18.0	0.554 6317	6051.9		0.750 2881	3667.3		0.325 4462	1590.8	
18.5	-0.547 3483	6086.9	+ 10027	-0.754 6598	3619.0	-6110	-0.327 3427	1569.9	-2657
19.0	0.540 0232	6121.4		0.758 9736	3570.5		0.329 2140	1548.9	
19.5	0.532 6571	6155.4	10141	0.763 2290	3521.7	5946	0.331 0600	1527.8	2586
20.0	0.525 2504	6189.0		0.767 4256	3472.6		0.332 8806	1506.5	
20.5	0.517 8037	6222.0	10251	0.771 5631	3423.2	5780	0.334 6756	1485.1	2514
21.0	0.510 3177	6254.6		0.775 6413	3373.7		0.336 4449	1463.7	
21.5	-0.502 7929	6286.7	+ 10358	-0.779 6599	3324.0	-5612	-0.338 1884	1442.1	-2441
22.0	0.495 2299	6318.2		0.783 6188	3274.1		0.339 9059	1420.4	
22.5	0.487 6294	6349.3	10462	0.787 5176	3223.9	5443	0.341 5974	1398.6	2367
23.0	0.479 9917	6380.0		0.791 3560	3173.4		0.343 2626	1376.8	
23.5	0.472 3175	6410.2	10563	0.795 1337	3122.7	5272	0.344 9016	1354.8	2292
24.0	0.464 6073	6439.9		0.798 8503	3071.7		0.346 5141	1332.7	

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1920.0								
	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.	Einheit: 7. Dez.			
1920									
Nov. 24.0	-0.464 6073	6439.9		-0.798 8503	3071.7		-0.346 5141	1332.7	
24.5	0.456 8618	6469.2	+10661	0.802 5056	3020.6	-5099	0.348 1000	1310.5	-2217
25.0	0.449 0814	6498.1		0.806 0996	2969.3		0.349 6593	1288.3	
25.5	0.441 2666	6526.5	10756	0.809 6319	2917.7	4925	0.351 1919	1266.0	2141
26.0	0.433 4180	6554.4		0.813 1021	2866.0		0.352 6976	1243.5	
26.5	0.425 5362	6581.8	10847	0.816 5102	2814.1	4749	0.354 1763	1220.9	2065
27.0	-0.417 6218	6608.8		-0.819 8559	2761.9		-0.355 6277	1198.2	
27.5	0.409 6751	6635.4	+10935	0.823 1388	2709.5	-4571	0.357 0519	1175.5	-1988
28.0	0.401 6969	6661.5		0.826 3586	2656.9		0.358 4488	1152.6	
28.5	0.393 6877	6687.2	11019	0.829 5152	2604.0	4392	0.359 8182	1129.7	1910
29.0	0.385 6479	6712.4		0.832 6082	2550.9		0.361 1600	1106.6	
29.5	0.377 5781	6737.1	11100	0.835 6373	2497.6	4212	0.362 4740	1083.4	1832
30.0	-0.369 4790	6761.3		-0.838 6023	2444.0		-0.363 7601	1060.1	
30.5	0.361 3511	6785.1	+11178	0.841 5029	2390.2	-4031	0.365 0183	1036.8	-1753
Dez. 1.0	0.353 1950	6808.3		0.844 3388	2336.2		0.366 2484	1013.3	
1.5	0.345 0113	6831.1	11252	0.847 1098	2282.1	3849	0.367 4502	989.8	1674
2.0	0.336 8005	6853.4		0.849 8157	2227.7		0.368 6238	966.2	
2.5	0.328 5633	6875.1	11323	0.852 4562	2173.0	3665	0.369 7690	942.4	1594
3.0	-0.320 3005	6896.3		-0.855 0308	2118.1		-0.370 8855	918.5	
3.5	0.312 0124	6917.1	+11390	0.857 5395	2062.9	-3480	0.371 9734	894.6	-1513
4.0	0.303 6997	6937.3		0.859 9818	2007.5		0.373 0326	870.6	
4.5	0.295 3630	6956.9	11454	0.862 3575	1952.0	3294	0.374 0629	846.5	1432
5.0	0.287 0032	6976.0		0.864 6665	1896.3		0.375 0642	822.3	
5.5	0.278 6208	6994.6	11515	0.866 9085	1840.4	3107	0.376 0363	798.0	1351
6.0	-0.270 2164	7012.6		-0.869 0833	1784.3		-0.376 9793	773.7	
6.5	0.261 7908	7030.0	+11572	0.871 1907	1728.0	-2918	0.377 8931	749.3	-1269
7.0	0.253 3446	7046.9		0.873 2304	1671.5		0.378 7775	724.8	
7.5	0.244 8784	7063.1	11625	0.875 2023	1614.9	2729	0.379 6325	700.2	1187
8.0	0.236 3932	7078.8		0.877 1061	1558.1		0.380 4580	675.6	
8.5	0.227 8895	7094.0	11675	0.878 9417	1501.2	2539	0.381 2540	651.0	1104
9.0	-0.219 3678	7108.6		-0.880 7089	1444.1		-0.382 0203	626.2	
9.5	0.210 8290	7122.6	+11721	0.882 4076	1386.9	-2349	0.382 7569	601.4	-1021
10.0	0.202 2738	7136.0		0.884 0375	1329.6		0.383 4636	576.5	
10.5	0.193 7028	7148.9	11763	0.885 5986	1272.2	2158	0.384 1405	551.6	938
11.0	0.185 1167	7161.1		0.887 0908	1214.7		0.384 7875	526.7	
11.5	0.176 5163	7172.8	11801	0.888 5139	1157.1	1966	0.385 4047	501.8	854
12.0	-0.167 9023	7183.8		-0.889 8677	1099.3		-0.385 9918	476.7	
12.5	0.159 2754	7194.3	+11836	0.891 1521	1041.4	-1774	0.386 5488	451.6	-770
13.0	0.150 6362	7204.3		0.892 3670	983.4		0.387 0757	426.5	
13.5	0.141 9854	7213.6	11867	0.893 5123	925.4	1580	0.387 5724	401.4	687
14.0	0.133 3239	7222.3		0.894 5880	867.4		0.388 0390	376.3	
14.5	0.124 6522	7230.4	11895	0.895 5941	809.3	1386	0.388 4755	351.1	603

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1920.0									
	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	
1920										
Dez. 14.5	-0.124 6522	7230.4	+11895	-0.895 5941	809.3	-1386	-0.388 4755	351.1	-603	
15.0	0.115 9711	7238.0		0.896 5303	751.1		0.388 8817	325.9		
15.5	0.107 2813	7244.9	11919	0.897 3966	692.9	1192	0.389 2577	300.7	519	
16.0	0.098 5835	7251.3		0.898 1932	634.7		0.389 6034	275.4		
16.5	0.089 8783	7257.2	11939	0.898 9199	576.4	998	0.389 9188	250.2	434	
17.0	0.081 1664	7262.5		0.899 5766	518.1		0.390 2039	224.9		
17.5	-0.072 4486	7267.1	+11955	-0.900 1633	459.8	-803	-0.390 4586	199.6	-349	
18.0	0.063 7257	7271.2		0.900 6801	401.5		0.390 6830	174.4		
18.5	0.054 9981	7274.7	11968	0.901 1269	343.2	608	0.390 8772	149.1	264	
19.0	0.046 2667	7277.6		0.901 5037	284.8		0.391 0409	123.7		
19.5	0.037 5321	7280.0	11977	0.901 8104	226.5	413	0.391 1742	98.4	179	
20.0	0.028 7950	7281.8		0.902 0472	168.1		0.391 2772	73.2		
20.5	-0.020 0560	7283.1	+11982	-0.902 2139	109.7	-218	-0.391 3499	47.9	-94	
21.0	0.011 3159	7283.8		0.902 3106	51.4		0.391 3922	22.6		
21.5	-0.002 5752	7283.9	11983	0.902 3374	6.8	-23	0.391 4042	2.6	-10	
22.0	+0.006 1653	7283.5		0.902 2944	65.0		0.391 3859	27.9		
22.5	0.014 9051	7282.6	11981	0.902 1815	123.2	+173	0.391 3373	53.1	+75	
23.0	0.023 6434	7281.2		0.901 9988	181.3		0.391 2584	78.4		
23.5	+0.032 3797	7279.3	+11975	-0.901 7464	239.4	+368	-0.391 1492	103.6	+160	
24.0	0.041 1134	7276.8		0.901 4242	297.5		0.391 0098	128.8		
24.5	0.049 8438	7273.7	11965	0.901 0324	355.5	563	0.390 8401	154.1	245	
25.0	0.058 5702	7270.2		0.900 5710	413.6		0.390 6400	179.3		
25.5	0.067 2921	7266.2	11952	0.900 0398	471.6	758	0.390 4098	204.5	330	
26.0	0.076 0089	7261.7		0.899 4391	529.5		0.390 1493	229.6		
26.5	+0.084 7199	7256.6	+11935	-0.898 7690	587.5	+953	-0.389 8587	254.7	+414	
27.0	0.093 4245	7251.0		0.898 0292	645.5		0.389 5379	279.9		
27.5	0.102 1221	7244.9	11914	0.897 2199	703.3	1147	0.389 1869	305.0	499	
28.0	0.110 8120	7238.2		0.896 3413	761.1		0.388 8058	330.2		
28.5	0.119 4937	7231.1	11890	0.895 3932	819.0	1341	0.388 3944	355.4	583	
29.0	0.128 1665	7223.5		0.894 3756	876.9		0.387 9529	380.5		
29.5	+0.136 8298	7215.2	+11862	-0.893 2886	934.8	+1535	-0.387 4813	405.6	+668	
30.0	0.145 4827	7206.4		0.892 1322	992.6		0.386 9795	430.7		
30.5	0.154 1248	7197.0	11831	0.890 9065	1050.3	1728	0.386 4476	455.7	752	
31.0	0.162 7552	7187.0		0.889 6116	1108.0		0.385 8857	480.8		
31.5	0.171 3734	7176.5	11795	0.888 2474	1165.6	1921	0.385 2937	505.9	836	
32.0	0.179 9787	7165.5		0.886 8141	1223.2		0.384 6716	530.9		

Frühlingsäquinoktium . . . März 20 10<sup>h</sup>  
 Sommersolstitium . . . Juni 21 6  
 Herbstäquinoktium . . . Sept. 22 20  
 Wintersolstitium . . . Dez. 21 15

Perigäum . . . . . Jan. 3 10<sup>h</sup>  
 Apogäum . . . . . Juli 4 1  
 Perigäum . . . . . Dez. 31 16

Mittlere Zeit Greenwich	Aberration	Parallaxe	Mittlere Zeit Greenwich	Mittlere Länge $L_{\odot}$	Mittlere Anomalie $M_{\odot}$
1920			1920		
Jan. 0.0	20.82	8.95	Jan. 0.5	279.3576	357.79
10.0	20.82	8.95	10.5	289.2141	7.65
20.0	20.80	8.94	20.5	299.0705	17.50
30.0	20.78	8.93	30.5	308.9270	27.36
Febr. 9.0	20.75	8.92	Febr. 9.5	318.7835	37.21
19.0	20.70	8.90	19.5	328.6400	47.07
29.0	20.66	8.88	29.5	338.4964	56.93
März 10.0	20.60	8.86	März 10.5	348.3529	66.78
20.0	20.55	8.83	20.5	358.2094	76.64
30.0	20.49	8.81	30.5	8.0659	86.49
April 9.0	20.43	8.78	April 9.5	17.9223	96.35
19.0	20.37	8.76	19.5	27.7788	106.21
29.0	20.32	8.73	29.5	37.6353	116.06
Mai 9.0	20.27	8.71	Mai 9.5	47.4917	125.92
19.0	20.23	8.69	19.5	57.3482	135.77
29.0	20.19	8.68	29.5	67.2047	145.63
Juni 8.0	20.16	8.67	Juni 8.5	77.0612	155.49
18.0	20.14	8.66	18.5	86.9176	165.34
28.0	20.13	8.66	28.5	96.7741	175.20
Juli 8.0	20.13	8.66	Juli 8.5	106.6306	185.05
18.0	20.14	8.66	18.5	116.4871	194.91
28.0	20.16	8.67	28.5	126.3435	204.77
Aug. 7.0	20.19	8.68	Aug. 7.5	136.2000	214.62
17.0	20.22	8.69	17.5	146.0565	224.48
27.0	20.27	8.71	27.5	155.9130	234.33
Sept. 6.0	20.31	8.73	Sept. 6.5	165.7694	244.19
16.0	20.37	8.76	16.5	175.6259	254.05
26.0	20.43	8.78	26.5	185.4824	263.90
Okt. 6.0	20.48	8.81	Okt. 6.5	195.3388	273.76
16.0	20.54	8.83	16.5	205.1953	283.61
26.0	20.60	8.86	26.5	215.0518	293.47
Nov. 5.0	20.65	8.88	Nov. 5.5	224.9083	303.33
15.0	20.70	8.90	15.5	234.7647	313.18
25.0	20.74	8.92	25.5	244.6212	323.04
Dez. 5.0	20.78	8.93	Dez. 5.5	254.4777	332.89
15.0	20.80	8.94	15.5	264.3342	342.75
25.0	20.82	8.95	25.5	274.1906	352.61
35.0	20.82	8.95	35.5	284.0471	2.46

Phasen des Mondes

Vollmond	Jan.	5	9 <sup>b</sup>	4.9 <sup>m</sup>	Letztes Viertel	Juli	8	17 <sup>b</sup>	5.6 <sup>m</sup>
Letztes Viertel		12	12	8.6	Neumond		15	8	25.0
Neumond		20	17	26.9	Erstes Viertel		22	7	20.4
Erstes Viertel		28	3	38.0	Vollmond		30	11	19.3
Vollmond	Febr.	3	20	42.4	Letztes Viertel	Aug.	7	0	50.7
Letztes Viertel		11	8	49.2	Neumond		13	15	43.9
Neumond		19	9	34.8	Erstes Viertel		20	22	51.8
Erstes Viertel		26	11	49.5	Vollmond		29	1	2.8
Vollmond	März	4	9	12.6	Letztes Viertel	Sept.	5	7	4.9
Letztes Viertel		12	5	57.4	Neumond		12	0	51.7
Neumond		19	22	55.8	Erstes Viertel		19	16	55.2
Erstes Viertel		26	18	45.1	Vollmond		27	13	56.6
Vollmond	April	2	22	54.7	Letztes Viertel	Okt.	4	12	53.6
Letztes Viertel		11	1	24.2	Neumond		11	12	50.4
Neumond		18	9	43.1	Erstes Viertel		19	12	29.3
Erstes Viertel		25	11	27.5	Vollmond		27	2	8.9
Vollmond	Mai	2	13	47.3	Letztes Viertel	Nov.	2	19	35.0
Letztes Viertel		10	17	51.0	Neumond		10	4	5.1
Neumond		17	18	25.2	Erstes Viertel		18	8	12.8
Erstes Viertel		24	9	7.2	Vollmond		25	13	42.3
Vollmond	Juni	1	5	18.2	Letztes Viertel	Dez.	2	4	29.0
Letztes Viertel		9	6	58.5	Neumond		9	22	3.9
Neumond		16	1	41.3	Erstes Viertel		18	2	40.4
Erstes Viertel		22	18	49.5	Vollmond		25	0	38.5
Vollmond		30	20	40.7	Letztes Viertel		31	16	34.7

Mond im Perigäum oder Apogäum

Perigäum	Jan.	4	2.6 <sup>b</sup>	Perigäum	Juli	14	12.4 <sup>b</sup>
Apogäum		16	4.8	Apogäum		27	2.4
Perigäum	Febr.	1	6.2	Perigäum	Aug.	11	17.8
Apogäum		13	0.2	Apogäum		23	16.6
Perigäum		28	1.7	Perigäum	Sept.	8	10.2
Apogäum	März	11	21.1	Apogäum		20	10.7
Perigäum		24	0.1	Perigäum	Okt.	3	21.9
Apogäum	April	8	16.5	Apogäum		18	6.7
Perigäum		20	13.0	Perigäum		30	2.6
Apogäum	Mai	6	8.0	Apogäum	Nov.	15	2.3
Perigäum		18	18.0	Perigäum		27	2.0
Apogäum	Juni	2	16.5	Apogäum	Dez.	12	17.5
Perigäum		16	3.2	Perigäum		25	12.4
Apogäum		29	19.0				

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1920						
Jan. 0.5	1 <sup>h</sup> 56 <sup>m</sup> 52 <sup>s</sup>	+14° 0.3	59 23.9	16 12.7	32.078	+1.924
1.5	2 55 2	+17 24.1	60 5.2	16 23.9	46.429	+0.673
2.5	3 56 25	+19 45.2	60 37.5	16 32.7	61.098	-0.647
3.5	5 0 6	+20 46.9	60 56.3	16 37.9	76.010	-1.942
4.5	6 4 29	+20 20.0	60 58.1	16 38.3	91.051	-3.111
5.5	7 7 42	+18 26.9	60 41.8	16 33.9	106.073	-4.061
6.5	8 8 18	+15 20.9	60 8.8	16 24.9	120.919	-4.722
7.5	9 5 33	+11 22.2	59 22.8	16 12.4	135.448	-5.062
8.5	9 59 30	+ 6 52.1	58 28.8	15 57.7	149.556	-5.080
9.5	10 50 41	+ 2 10.0	57 32.2	15 42.3	163.193	-4.805
10.5	11 39 49	- 2 28.7	56 37.7	15 27.4	176.355	-4.280
11.5	12 27 44	- 6 52.2	55 49.0	15 14.1	189.082	-3.558
12.5	13 15 10	-10 51.2	55 8.5	15 3.0	201.442	-2.686
13.5	14 2 44	-14 18.2	54 37.7	14 54.7	213.520	-1.713
14.5	14 50 56	-17 6.7	54 17.0	14 49.1	225.406	-0.680
15.5	15 39 59	-19 10.7	54 6.1	14 46.1	237.192	+0.371
16.5	16 29 55	-20 24.9	54 4.4	14 45.6	248.959	+1.403
17.5	17 20 34	-20 45.4	54 10.7	14 47.3	260.780	+2.376
18.5	18 11 33	-20 10.2	54 23.8	14 50.9	272.713	+3.252
19.5	19 2 25	-18 39.5	54 42.1	14 55.9	284.803	+3.990
20.5	19 52 50	-16 16.8	55 4.4	15 2.0	297.075	+4.554
21.5	20 42 35	-13 7.9	55 29.6	15 8.8	309.544	+4.910
22.5	21 31 42	- 9 20.9	55 56.7	15 16.2	322.212	+5.031
23.5	22 20 26	- 5 5.4	56 25.3	15 24.0	335.074	+4.900
24.5	23 9 17	- 0 32.4	56 55.0	15 32.1	348.125	+4.513
25.5	23 58 49	+ 4 6.1	57 25.8	15 40.5	361.365	+3.880
26.5	0 49 46	+ 8 37.2	57 57.3	15 49.1	374.799	+3.024
27.5	1 42 47	+12 46.4	58 29.0	15 57.7	388.438	+1.982
28.5	2 38 23	+16 18.1	58 59.7	16 6.1	402.297	+0.808
29.5	3 36 43	+18 55.8	59 27.6	16 13.7	416.386	-0.434
30.5	4 37 25	+20 24.5	59 50.1	16 19.8	430.696	-1.667
31.5	5 39 30	+20 33.4	60 4.2	16 23.7	445.195	-2.806
Febr. 1.5	6 41 33	+19 19.5	60 7.3	16 24.5	459.818	-3.769
2.5	7 42 12	+16 49.1	59 57.6	16 21.9	474.466	-4.485
3.5	8 40 31	+13 16.5	59 34.8	16 15.6	489.019	-4.903
4.5	9 36 6	+ 9 0.5	59 0.2	16 6.2	493.354	-5.004
5.5	10 29 7	+ 4 21.0	58 16.9	15 54.5	497.365	-4.799
6.5	11 20 3	- 0 23.8	57 28.8	15 41.3	491.981	-4.322
7.5	12 9 33	- 4 59.1	56 40.0	15 28.0	484.173	-3.624
8.5	12 58 13	- 9 12.8	55 54.5	15 15.6	476.954	-2.762
9.5	13 46 39	-12 55.6	55 15.1	15 4.9	469.372	-1.788
10.5	14 35 17	-16 0.3	54 44.3	14 56.5	461.499	-0.754



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	
1920												
Jan. 0	1 <sup>h</sup> 45 <sup>m</sup> 30 <sup>s</sup>	145 <sup>s</sup>	+13° 13.2	+10.2	59.2	7 <sup>h</sup> 8 <sup>m</sup> 8.9	2.25	—	—	14 <sup>h</sup> 36 <sup>m</sup>	3 <sup>m</sup>	
1	2 45 18	154	+16 54.5	+ 8.0	60.0	8 4.6	2.39	0 29	1.5	15 52	3.1	
2	3 48 45	163	+19 31.9	+ 4.9	60.6	9 3.9	2.54	1 9	1.9	17 6	2.9	
3	4 55 0	168	+20 45.2	+ 1.1	60.9	10 6.1	2.63	2 0	2.4	18 13	2.6	
4	6 2 13	167	+20 22.4	- 3.0	61.0	11 9.2	2.61	3 3	2.8	19 11	2.2	
5	7 8 11	162	+18 25.7	- 6.6	60.7	12 11.0	2.52	4 14	3.1	19 58	1.7	
6	8 11 9	153	+15 10.4	- 9.5	60.1	13 9.9	2.38	5 31	3.3	20 35	1.4	
7	9 10 22	143	+10 59.7	-11.3	59.3	14 5.0	2.22	6 50	3.2	21 6	1.2	
8	10 5 55	135	+ 6 17.9	-12.1	58.4	14 56.5	2.08	8 7	3.1	21 33	1.1	
9	10 58 28	128	+ 1 25.9	-12.1	57.4	15 44.9	1.97	9 20	3.0	21 57	1.0	
10	11 48 55	124	- 3 19.8	-11.6	56.5	16 31.3	1.90	10 31	2.9	22 20	1.0	
11	12 38 10	122	- 7 47.1	-10.6	55.7	17 16.5	1.87	11 40	2.8	22 43	1.0	
12	13 27 4	122	-11 46.4	- 9.3	55.0	18 1.3	1.87	12 46	2.7	23 8	1.1	
13	14 16 16	124	-15 10.0	- 7.6	54.5	18 46.5	1.90	13 50	2.6	23 36	1.2	
14	15 6 14	126	-17 50.7	- 5.7	54.2	19 32.4	1.93	14 52	2.5	—	—	
15	15 57 12	129	-19 42.3	- 3.5	54.1	20 19.3	1.97	15 51	2.4	0 8	1.4	
16	16 49 6	131	-20 39.2	- 1.2	54.1	21 7.1	2.01	16 45	2.2	0 45	1.7	
17	17 41 38	132	-20 37.6	+ 1.3	54.3	21 55.6	2.03	17 35	1.9	1 28	1.9	
18	18 34 20	132	-19 36.3	+ 3.8	54.5	22 44.2	2.02	18 18	1.7	2 18	2.2	
19	19 26 44	130	-17 37.1	+ 6.1	54.9	23 32.5	2.00	18 56	1.4	3 14	2.4	
20	—	—	—	—	—	—	—	19 28	1.2	4 15	2.6	
21	20 18 29	128	-14 45.0	+ 8.2	55.3	0 20.2	1.97	19 56	1.1	5 19	2.7	
22	21 9 30	127	-11 8.0	+ 9.8	55.7	1 7.1	1.94	20 22	1.0	6 26	2.8	
23	21 59 56	126	- 6 55.8	+11.1	56.2	1 53.5	1.93	20 46	1.0	7 35	2.9	
24	22 50 14	126	- 2 20.0	+11.8	56.7	2 39.7	1.93	21 9	1.0	8 45	2.9	
25	23 41 2	128	+ 2 26.9	+12.0	57.2	3 26.4	1.97	21 34	1.1	9 56	3.0	
26	0 33 6	132	+ 7 11.2	+11.6	57.8	4 14.4	2.04	22 0	1.2	11 8	3.0	
27	1 27 14	138	+11 37.7	+10.5	58.3	5 4.5	2.14	22 31	1.4	12 22	3.1	
28	2 24 7	146	+15 29.2	+ 8.7	58.9	5 57.3	2.26	23 7	1.7	13 36	3.1	
29	3 24 4	154	+18 27.5	+ 6.1	59.4	6 53.2	2.39	23 52	2.1	14 49	3.0	
30	4 26 50	160	+20 14.7	+ 2.8	59.8	7 51.8	2.49	—	—	15 57	2.7	
31	5 31 22	162	+20 36.9	- 0.9	60.0	8 52.2	2.53	0 47	2.5	16 56	2.3	
Febr. 1	6 36 7	161	+19 29.3	- 4.6	60.1	9 52.9	2.50	1 51	2.9	17 46	1.9	
2	7 39 24	155	+16 57.7	- 7.9	60.0	10 52.0	2.41	3 4	3.1	18 28	1.6	
3	8 40 4	148	+13 18.4	-10.3	59.6	11 48.6	2.30	4 21	3.2	19 3	1.3	
4	9 37 41	140	+ 8 52.6	-11.7	59.0	12 42.2	2.17	5 38	3.2	19 32	1.1	
5	10 32 27	134	+ 4 2.7	-12.3	58.2	13 32.8	2.06	6 54	3.1	19 58	1.0	
6	11 24 58	129	- 0 51.5	-12.1	57.4	14 21.3	1.98	8 8	3.0	20 22	1.0	
7	12 15 56	126	- 5 33.7	-11.3	56.6	15 8.2	1.93	9 19	2.9	20 46	1.0	
8	13 6 6	125	- 9 51.3	-10.1	55.8	15 54.3	1.91	10 28	2.8	21 11	1.1	
9	13 56 5	125	-13 34.7	- 8.5	55.1	16 40.2	1.91	11 35	2.7	21 38	1.2	
10	14 46 23	126	-16 36.2	- 6.6	54.6	17 26.4	1.94	12 39	2.6	22 8	1.3	

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1920						
Febr. 10.5	14 <sup>h</sup> 35 <sup>m</sup> 17 <sup>s</sup> 49 <sup>m</sup> 9 <sup>s</sup>	-16° 0.3	54 44.3	14 56.5	221.499	-0.754
11.5	15 24 26 49 9	-18 20.9	54 23.3	14 50.8	233.421	+0.297
12.5	16 14 13 49 47	-19 52.6	54 12.9	14 48.0	245.232	+1.325
13.5	17 4 34 50 21	-20 31.9	54 12.7	14 47.9	257.025	+2.295
14.5	17 55 16 50 42	-20 16.5	54 22.4	14 50.5	268.888	+3.169
15.5	18 46 3 50 47	-19 6.1	54 40.5	14 55.4	280.895	+3.912
16.5	19 36 37 50 13	-17 2.5	55 5.5	15 2.2	293.107	+4.489
17.5	20 26 50 49 49	-14 10.0	55 35.5	15 10.4	305.567	+4.864
18.5	21 16 39 49 37	-10 35.0	56 8.3	15 19.4	318.293	+5.007
19.5	22 6 16 49 44	- 6 26.5	56 41.8	15 28.5	331.283	+4.896
20.5	22 56 0 50 20	- 1 55.4	57 14.0	15 37.3	344.518	+4.522
21.5	23 46 20 51 28	+ 2 45.6	57 43.4	15 45.3	357.962	+3.892
22.5	0 37 48 53 9	+ 7 22.2	58 9.2	15 52.3	11.579	+3.032
23.5	1 30 57 55 11	+11 39.1	58 31.0	15 58.3	25.333	+1.986
24.5	2 26 8 57 22	+15 20.1	58 48.6	16 3.1	39.198	+0.812
25.5	3 23 30 59 12	+18 9.8	59 2.3	16 6.8	53.159	-0.420
26.5	4 22 42 60 19	+19 54.5	59 12.1	16 9.4	67.206	-1.635
27.5	5 23 1 60 21	+20 24.8	59 17.5	16 10.9	81.329	-2.757
28.5	6 23 22 59 18	+19 37.4	59 17.8	16 11.0	95.512	-3.714
29.5	7 22 40 57 29	+17 36.1	59 12.0	16 9.4	109.721	-4.442
März 1.5	8 20 9 55 18	+14 31.4	58 59.4	16 6.0	123.905	-4.895
2.5	9 15 27 53 10	+10 38.0	58 39.2	16 0.5	137.995	-5.048
3.5	10 8 37 51 24	+ 6 13.1	58 11.8	15 53.0	151.914	-4.898
4.5	11 0 1 50 8	+ 1 33.7	57 38.3	15 43.9	165.589	-4.468
5.5	11 50 9 49 22	- 3 4.3	57 0.7	15 33.6	178.963	-3.798
6.5	12 39 31 49 7	- 7 27.3	56 21.7	15 23.0	192.004	-2.942
7.5	13 28 38 49 12	-11 23.7	55 43.9	15 12.8	204.711	-1.957
8.5	14 17 50 49 32	-14 44.3	55 10.3	15 3.6	217.107	-0.898
9.5	15 7 22 49 57	-17 22.1	54 43.2	14 56.2	229.245	+0.182
10.5	15 57 19 50 18	-19 11.5	54 24.4	14 51.1	241.193	+1.240
11.5	16 47 37 50 28	-20 9.1	54 15.3	14 48.6	253.032	+2.236
12.5	17 38 5 50 26	-20 12.9	54 16.6	14 49.0	264.850	+3.134
13.5	18 28 31 50 13	-19 22.7	54 28.3	14 52.1	276.737	+3.903
14.5	19 18 44 49 55	-17 39.9	54 50.0	14 58.0	288.778	+4.509
15.5	20 8 39 49 41	-15 7.6	55 20.4	15 6.3	301.049	+4.921
16.5	20 58 20 49 40	-11 50.8	55 57.6	15 16.4	313.609	+5.108
17.5	21 48 0 50 0	- 7 56.4	56 39.0	15 27.7	326.496	+5.045
18.5	22 38 0 50 48	- 3 33.4	57 21.7	15 39.4	339.723	+4.714
19.5	23 28 48 52 7	+ 1 6.4	58 2.3	15 50.5	353.274	+4.113
20.5	0 20 55 53 56	+ 5 48.9	58 37.7	16 0.1	7.106	+3.260
21.5	1 14 51 56 2	+10 17.5	59 5.3	16 7.6	21.156	+2.195
22.5	2 10 53	+14 14.2	59 23.7	16 12.6	35.353	+0.982

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
1920											
Febr. 10	14 <sup>h</sup> 46 <sup>m</sup> 23 <sup>s</sup>	126 <sup>e</sup>	-16° 36.2	- 6.6	54.6	17 <sup>h</sup> 26.4	1.94	12 <sup>h</sup> 39 <sup>m</sup>	2.6	22 <sup>h</sup> 8 <sup>m</sup>	1.3
11	15 37 17	128	-18 49.5	- 4.5	54.3	18 13.2	1.97	13 39	2.4	22 43	1.6
12	16 28 52	130	-20 9.6	- 2.2	54.2	19 0.8	1.99	14 35	2.2	23 24	1.8
13	17 21 3	131	-20 32.9	+ 0.2	54.2	19 48.9	2.01	15 27	2.0	—	—
14	18 13 31	131	-19 57.5	+ 2.7	54.5	20 37.3	2.02	16 13	1.8	0 11	2.1
15	19 5 57	131	-18 23.7	+ 5.1	54.8	21 25.6	2.01	16 53	1.6	1 4	2.3
16	19 58 4	130	-15 54.6	+ 7.3	55.3	22 13.7	1.99	17 28	1.4	2 3	2.5
17	20 49 45	129	-12 36.0	+ 9.2	55.8	23 1.3	1.97	17 58	1.2	3 6	2.7
18	21 41 4	128	- 8 36.3	+10.7	56.4	23 48.5	1.96	18 25	1.1	4 13	2.8
19	—	—	—	—	—	—	—	18 50	1.0	5 22	2.9
20	22 32 19	128	- 4 6.3	+11.7	57.0	0 35.7	1.97	19 14	1.0	6 32	3.0
21	23 23 58	130	+ 0 41.0	+12.1	57.5	1 23.3	2.00	19 39	1.1	7 44	3.0
22	0 16 36	133	+ 5 30.7	+11.9	58.0	2 11.8	2.05	20 6	1.2	8 57	3.1
23	1 10 52	138	+10 6.5	+11.0	58.4	3 2.0	2.13	20 35	1.3	10 11	3.1
24	2 7 17	144	+14 10.6	+ 9.3	58.7	3 54.4	2.23	21 10	1.6	11 26	3.1
25	3 6 7	150	+17 25.3	+ 6.8	59.0	4 49.1	2.33	21 52	1.9	12 39	3.0
26	4 7 11	155	+19 34.2	+ 3.8	59.2	5 46.1	2.41	22 42	2.3	13 47	2.7
27	5 9 46	157	+20 24.8	+ 0.4	59.3	6 44.5	2.45	23 41	2.6	14 47	2.3
28	6 12 39	157	+19 51.4	- 3.1	59.3	7 43.3	2.44	—	—	15 39	2.0
29	7 14 35	153	+17 56.9	- 6.3	59.2	8 41.1	2.38	0 48	2.9	16 23	1.7
März 1	8 14 33	147	+14 52.2	- 8.9	59.0	9 37.0	2.28	2 1	3.1	17 0	1.4
2	9 12 5	141	+10 53.6	-10.8	58.7	10 30.5	2.17	3 16	3.2	17 31	1.2
3	10 7 14	135	+ 6 20.4	-11.8	58.2	11 21.5	2.08	4 32	3.1	17 58	1.1
4	11 0 24	131	+ 1 31.6	-12.1	57.6	12 10.6	2.01	5 46	3.0	18 23	1.0
5	11 52 9	128	- 3 15.3	-11.7	57.0	12 58.3	1.97	6 58	3.0	18 48	1.0
6	12 43 7	127	- 7 45.6	-10.7	56.3	13 45.2	1.94	8 8	2.9	19 13	1.1
7	13 33 48	127	-11 46.7	- 9.3	55.7	14 31.8	1.94	9 16	2.8	19 39	1.2
8	14 24 38	128	-15 8.8	- 7.5	55.1	15 18.6	1.95	10 22	2.7	20 9	1.3
9	15 15 52	129	-17 44.3	- 5.4	54.7	16 5.7	1.97	11 25	2.5	20 42	1.5
10	16 7 32	130	-19 27.6	- 3.2	54.4	16 53.3	1.99	12 24	2.3	21 20	1.7
11	16 59 34	130	-20 14.9	- 0.8	54.2	17 41.3	2.00	13 18	2.1	22 4	2.0
12	17 51 44	130	-20 4.7	+ 1.6	54.3	18 29.4	2.00	14 6	1.9	22 55	2.2
13	18 43 47	130	-18 56.9	+ 4.0	54.6	19 17.4	1.99	14 48	1.6	23 51	2.4
14	19 35 35	129	-16 53.9	+ 6.2	55.0	20 5.1	1.98	15 24	1.4	—	—
15	20 27 2	128	-13 59.7	+ 8.2	55.6	20 52.5	1.97	15 56	1.3	0 51	2.6
16	21 18 18	128	-10 20.5	+10.0	56.2	21 39.7	1.97	16 25	1.2	1 56	2.8
17	22 9 42	129	- 6 4.7	+11.3	57.0	22 27.0	1.98	16 51	1.1	3 3	2.9
18	23 1 40	131	- 1 23.6	+12.1	57.7	23 14.9	2.02	17 16	1.1	4 13	3.0
19	—	—	—	—	—	—	—	17 41	1.1	5 25	3.0
20	23 54 48	135	+ 3 29.1	+12.2	58.3	0 3.9	2.08	18 8	1.2	6 39	3.1
21	0 49 41	140	+ 8 16.2	+11.6	58.9	0 54.7	2.16	18 37	1.3	7 55	3.1
22	1 46 47	146	+12 38.6	+10.1	59.3	1 47.7	2.26	19 11	1.5	9 11	3.1

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1920						
März 22.5	2 <sup>h</sup> 10 <sup>m</sup> 53 <sup>s</sup> 58 <sup>m</sup> 9 <sup>s</sup>	+14° 14.2' 3 7.1	59 23.7 8.8	16 12.6 2.4	35.353	+0.982
23.5	3 9 2 59 51	+17 21.3 2 2.5	59 32.5 0.1	16 15.0 0.1	49.625	-0.302
24.5	4 8 53 60 40	+19 23.8 0 47.7	59 32.6 7.4	16 15.1 2.0	63.910	-1.570
25.5	5 9 33 60 21	+20 11.5 0 29.9	59 25.2 13.0	16 13.1 3.6	78.159	-2.739
26.5	6 9 54 59 1	+19 41.6 1 43.1	59 12.2 17.4	16 9.5 4.8	92.337	-3.734
27.5	7 8 55 56 58	+17 58.5 2 46.2	58 54.8 20.6	16 4.7 5.5	106.418	-4.496
28.5	8 5 53 54 41	+15 12.3 3 35.5	58 34.2 23.2	15 59.2 6.4	120.379	-4.985
29.5	9 0 34 52 32	+11 36.8 4 9.5	58 11.0 25.5	15 52.8 7.0	134.200	-5.178
30.5	9 53 6 50 49	+ 7 27.3 4 28.4	57 45.5 27.6	15 45.8 7.4	147.854	-5.075
31.5	10 43 55 49 40	+ 2 58.9 4 32.8	57 17.9 29.4	15 38.4 8.1	161.315	-4.692
April 1.5	11 33 35 49 3	- 1 33.9 4 24.0	56 48.5 30.4	15 30.3 8.3	174.557	-4.061
2.5	12 22 38 48 56	- 5 57.9 4 3.3	56 18.1 30.5	15 22.0 8.2	187.558	-3.229
3.5	13 11 34 49 11	-10 1.2 3 32.0	55 47.6 29.0	15 13.8 8.0	200.309	-2.248
4.5	14 0 45 49 38	-13 33.2 2 52.3	55 18.6 25.9	15 5.8 7.0	212.810	-1.174
5.5	14 50 23 50 6	-16 25.5 2 5.8	54 52.7 21.0	14 58.8 5.8	225.082	-0.062
6.5	15 40 29 50 24	-18 31.3 1 14.7	54 31.7 14.4	14 53.0 3.8	237.157	+1.036
7.5	16 30 53 50 30	-19 46.0 0 21.3	54 17.3 6.2	14 49.2 1.8	249.085	+2.078
8.5	17 21 23 50 17	-20 7.3 0 32.4	54 11.1 3.0	14 47.4 0.8	260.927	+3.023
9.5	18 11 40 49 53	-19 34.9 1 24.4	54 14.1 13.1	14 48.2 3.6	272.756	+3.839
10.5	19 1 33 49 23	-18 10.5 2 13.3	54 27.2 23.3	14 51.8 6.3	284.649	+4.494
11.5	19 50 56 48 59	-15 57.2 2 57.7	54 50.5 33.0	14 58.1 9.0	296.688	+4.962
12.5	20 39 55 48 52	-12 59.5 3 36.5	55 23.5 41.5	15 7.1 11.4	308.953	+5.214
13.5	21 28 47 49 9	- 9 23.0 4 8.1	56 5.0 47.8	15 18.5 13.0	321.515	+5.226
14.5	22 17 56 50 2	- 5 14.9 4 30.6	56 52.8 51.0	15 31.5 13.9	334.434	+4.977
15.5	23 7 58 51 30	- 0 44.3 4 41.1	57 43.8 50.2	15 45.4 13.7	347.744	+4.458
16.5	23 59 28 53 37	+ 3 56.8 4 36.5	58 34.0 45.0	15 59.1 12.2	1.451	+3.673
17.5	0 53 5 56 10	+ 8 33.3 4 13.7	59 19.0 35.4	16 11.3 9.7	15.530	+2.645
18.5	1 49 15 58 51	+12 47.0 3 30.8	59 54.4 22.5	16 21.0 6.2	29.917	+1.429
19.5	2 48 6 61 8	+16 17.8 2 28.8	60 16.9 7.9	16 27.2 2.1	44.522	+0.100
20.5	3 49 14 62 24	+18 46.6 1 12.8	60 24.8 6.5	16 29.3 1.8	59.237	-1.246
21.5	4 51 38 62 16	+19 59.4 0 9.1	60 18.3 18.7	16 27.5 5.1	73.951	-2.511
22.5	5 53 54 60 45	+19 50.3 1 27.4	59 59.6 27.8	16 22.4 7.6	88.563	-3.603
23.5	6 54 39 58 16	+18 22.9 2 34.3	59 31.8 33.6	16 14.8 9.1	102.992	-4.452
24.5	7 52 55 55 26	+15 48.6 3 26.1	58 58.2 36.3	16 5.7 9.9	117.184	-5.013
25.5	8 48 21 52 48	+12 22.5 4 1.4	58 21.9 36.6	15 55.8 10.0	131.108	-5.268
26.5	9 41 9 50 39	+ 8 21.1 4 21.7	57 45.3 35.4	15 45.8 9.6	144.754	-5.219
27.5	10 31 48 49 13	+ 3 59.4 4 28.1	57 9.9 33.4	15 36.2 9.2	158.124	-4.886
28.5	11 21 1 48 25	- 0 28.7 4 22.3	56 36.5 30.9	15 27.0 8.3	171.232	-4.302
29.5	12 9 26 48 16	- 4 51.0 4 5.5	56 5.6 28.4	15 18.7 7.8	184.095	-3.511
30.5	12 57 42 48 34	- 8 56.5 3 38.6	55 37.2 25.7	15 10.9 7.0	196.732	-2.560
Mai 1.5	13 46 16 49 10	-12 35.1 3 2.7	55 11.5 22.6	15 3.9 6.1	209.165	-1.501
2.5	14 35 26	-15 37.8	54 48.9	14 57.8	221.415	-0.388

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
1920											
März 22	1 <sup>h</sup> 46 <sup>m</sup> 47	146 <sup>s</sup>	+12° 38.6	+10.1	59.3	1 <sup>h</sup> 47 <sup>m</sup> 2.26	19 <sup>h</sup> 11 <sup>m</sup> 1.5	9 <sup>h</sup> 11 <sup>m</sup> 3.1			
23	2 46 19	152	+16 15.9	+ 7.8	59.5	2 43.2	2.36	19 51	1.8	10 26	3.0
24	3 47 59	156	+18 49.4	+ 4.8	59.6	3 40.8	2.43	20 40	2.2	11 38	2.8
25	4 50 58	158	+20 5.2	+ 1.4	59.5	4 39.6	2.46	21 37	2.5	12 42	2.5
26	5 54 1	157	+19 57.0	- 2.1	59.3	5 38.6	2.44	22 42	2.8	13 37	2.1
27	6 55 49	152	+18 27.6	- 5.3	59.0	6 36.3	2.36	23 52	3.0	14 23	1.7
28	7 55 27	146	+15 47.4	- 7.9	58.6	7 31.8	2.26	—	—	15 1	1.5
29	8 52 32	140	+12 11.5	- 9.9	58.2	8 24.8	2.16	1 5	3.1	15 33	1.2
30	9 47 11	134	+ 7 57.0	-11.2	57.8	9 15.4	2.06	2 18	3.0	16 0	1.1
31	10 39 52	130	+ 3 20.8	-11.7	57.3	10 4.0	1.99	3 30	3.0	16 26	1.1
April 1	11 31 14	127	- 1 21.0	-11.7	56.8	10 51.3	1.95	4 41	2.9	16 51	1.0
2	12 21 53	126	- 5 54.9	-11.0	56.3	11 37.9	1.93	5 51	2.9	17 15	1.0
3	13 12 24	127	-10 5.0	- 9.8	55.8	12 24.3	1.94	6 59	2.8	17 41	1.1
4	14 3 12	128	-13 42.7	- 8.2	55.3	13 11.0	1.96	8 6	2.7	18 9	1.2
5	14 54 29	129	-16 37.7	- 6.3	54.8	13 58.2	1.98	9 10	2.6	18 41	1.4
6	15 46 16	130	-18 42.6	- 4.1	54.5	14 46.0	2.00	10 11	2.5	19 17	1.6
7	16 38 24	130	-19 52.6	- 1.7	54.3	15 34.0	2.01	11 8	2.3	19 59	1.9
8	17 30 33	130	-20 5.3	+ 0.7	54.2	16 22.1	2.00	11 58	2.0	20 47	2.1
9	18 22 27	129	-19 21.0	+ 3.0	54.3	17 9.9	1.98	12 42	1.7	21 40	2.3
10	19 13 51	128	-17 41.8	+ 5.2	54.5	17 57.2	1.96	13 20	1.5	22 38	2.5
11	20 4 43	127	-15 11.6	+ 7.3	55.0	18 44.0	1.94	13 54	1.3	23 40	2.7
12	20 55 12	126	-11 55.6	+ 9.0	55.6	19 30.5	1.93	14 24	1.2	—	—
13	21 45 41	127	- 8 0.6	+10.5	56.3	20 16.9	1.94	14 50	1.1	0 45	2.8
14	22 36 42	129	- 3 34.8	+11.6	57.2	21 3.8	1.98	15 15	1.0	1 53	2.9
15	23 28 55	133	+ 1 10.7	+12.1	58.1	21 52.0	2.04	15 40	1.0	3 3	3.0
16	0 23 5	138	+ 6 1.7	+12.0	58.9	22 42.0	2.14	16 6	1.1	4 16	3.1
17	1 19 51	146	+10 39.8	+11.0	59.6	23 34.7	2.26	16 35	1.3	5 31	3.2
18	—	—	—	—	—	—	—	17 7	1.5	6 48	3.2
19	2 19 36	153	+14 43.5	+ 9.1	60.1	0 30.4	2.38	17 46	1.8	8 6	3.2
20	3 22 13	160	+17 50.1	+ 6.3	60.4	1 28.9	2.49	18 33	2.1	9 22	3.0
21	4 26 50	163	+19 40.2	+ 2.8	60.4	2 29.4	2.54	19 29	2.5	10 31	2.7
22	5 31 58	162	+20 2.8	- 0.9	60.1	3 30.4	2.53	20 33	2.8	11 31	2.3
23	6 35 55	157	+18 58.0	- 4.4	59.7	4 30.3	2.45	21 43	3.0	12 21	1.9
24	7 37 19	150	+16 36.4	- 7.3	59.1	5 27.6	2.32	22 56	3.1	13 2	1.6
25	8 35 35	142	+13 14.7	- 9.4	58.5	6 21.7	2.19	—	—	13 36	1.3
26	9 30 49	135	+ 9 11.3	-10.8	57.9	7 12.9	2.07	0 9	3.0	14 5	1.1
27	10 23 32	129	+ 4 43.5	-11.4	57.3	8 1.5	1.99	1 21	3.0	14 30	1.0
28	11 14 31	126	+ 0 6.9	-11.5	56.7	8 48.5	1.93	2 31	2.9	14 54	1.0
29	12 4 33	125	- 4 25.0	-11.1	56.1	9 34.4	1.90	3 40	2.9	15 18	1.0
30	12 54 21	125	- 8 40.2	-10.1	55.7	10 20.1	1.91	4 48	2.8	15 43	1.1
Mai 1	13 44 27	126	-12 27.5	- 8.7	55.2	11 6.2	1.93	5 54	2.7	16 10	1.2
2	14 35 11	128	-15 37.0	- 7.0	54.8	11 52.8	1.96	6 59	2.6	16 40	1.4

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1920						
Mai 2.5	14 <sup>h</sup> 35 <sup>m</sup> 26 <sup>s</sup> 49 49	-15° 37.8 2 19.2	54 48.9 19.0	14 57.8 5.2	221.415	-0.388
3.5	15 25 15 50 20	-17 57.0 1 29.9	54 29.9 14.5	14 52.6 4.0	233.508	+0.730
4.5	16 15 35 50 34	-19 26.9 0 37.2	54 15.4 9.0	14 48.6 2.4	245.475	+1.803
5.5	17 6 9 50 23	-20 4.1 0 16.6	54 6.4 2.5	14 46.2 0.7	257.352	+2.790
6.5	17 56 32 49 53	-19 47.5 1 8.9	54 3.9 5.3	14 45.5 1.4	269.183	+3.654
7.5	18 46 25 49 11	-18 38.6 1 57.8	54 9.2 14.0	14 46.9 3.9	281.020	+4.361
8.5	19 35 36 48 29	-16 40.8 2 42.0	54 23.2 23.4	14 50.8 6.3	292.923	+4.885
9.5	20 24 5 48 0	-13 58.8 3 20.4	54 46.6 32.9	14 57.1 8.9	304.959	+5.202
10.5	21 12 5 47 57	-10 38.4 3 52.6	55 19.5 41.9	15 6.0 11.5	317.199	+5.290
11.5	22 0 2 48 29	- 6 45.8 4 16.9	56 1.4 49.6	15 17.5 13.5	329.715	+5.133
12.5	22 48 31 49 45	- 2 28.9 4 32.2	56 51.0 54.9	15 31.0 15.0	342.573	+4.719
13.5	23 38 16 51 46	+ 2 3.3 4 35.2	57 45.9 56.4	15 46.0 15.4	355.830	+4.045
14.5	0 30 2 54 29	+ 6 38.5 4 23.0	58 42.3 53.2	16 1.4 14.4	9.517	+3.123
15.5	1 24 31 57 42	+11 1.5 3 51.5	59 35.5 44.7	16 15.8 12.2	23.638	+1.985
16.5	2 22 13 60 51	+14 53.0 2 59.2	60 20.2 31.1	16 28.0 8.5	38.155	+0.690
17.5	3 23 4 63 19	+17 52.2 1 47.6	60 51.3 13.8	16 36.5 3.7	52.988	-0.678
18.5	4 26 23 64 17	+19 39.8 0 23.5	61 5.1 4.6	16 40.2 1.2	68.018	-2.016
19.5	5 30 40 63 28	+20 3.3 1 2.1	61 0.5 21.7	16 39.0 5.9	83.101	-3.217
20.5	6 34 8 61 9	+19 1.2 2 18.5	60 38.8 35.3	16 33.1 9.7	98.087	-4.189
21.5	7 35 17 58 0	+16 42.7 3 18.2	60 3.5 44.2	16 23.4 12.0	112.845	-4.866
22.5	8 33 17 54 44	+13 24.5 3 59.0	59 19.3 48.5	16 11.4 13.2	127.275	-5.218
23.5	9 28 1 51 56	+ 9 25.5 4 21.9	58 30.8 48.6	15 58.2 13.2	141.323	-5.245
24.5	10 19 57 49 51	+ 5 3.6 4 29.6	57 42.2 45.9	15 45.0 12.5	154.970	-4.972
25.5	11 9 48 48 33	+ 0 34.0 4 24.7	56 56.3 41.3	15 32.5 11.3	168.234	-4.439
26.5	11 58 21 47 59	- 3 50.7 4 9.1	56 15.0 35.8	15 21.2 9.7	181.152	-3.692
27.5	12 46 20 48 3	- 7 59.8 3 44.3	55 39.2 30.1	15 11.5 8.3	193.772	-2.781
28.5	13 34 23 48 34	-11 44.1 3 11.1	55 9.1 24.5	15 3.2 6.6	206.149	-1.756
29.5	14 22 57 49 16	-14 55.2 2 30.3	54 44.6 19.1	14 56.6 5.3	218.334	-0.667
30.5	15 12 13 49 58	-17 25.5 1 43.4	54 25.5 14.1	14 51.3 3.8	230.373	+0.438
31.5	16 2 11 50 25	-19 8.9 0 52.0	54 11.4 9.0	14 47.5 2.4	242.309	+1.512
Juni 1.5	16 52 36 50 28	-20 0.9 0 1.6	54 2.4 3.8	14 45.1 1.1	254.178	+2.512
2.5	17 43 4 50 6	-19 59.3 0 54.4	53 58.6 1.8	14 44.0 0.5	266.015	+3.400
3.5	18 33 10 49 23	-19 4.9 1 44.4	54 0.4 8.1	14 44.5 2.2	277.853	+4.141
4.5	19 22 33 48 31	-17 20.5 2 29.5	54 8.5 15.1	14 46.7 4.2	289.728	+4.704
5.5	20 11 4 47 44	-14 51.0 3 8.5	54 23.6 22.8	14 50.9 6.2	301.680	+5.066
6.5	20 58 48 47 16	-11 42.5 3 40.6	54 46.4 31.0	14 57.1 8.4	313.757	+5.209
7.5	21 46 4 47 18	- 8 1.9 4 5.3	55 17.4 39.2	15 5.5 10.7	326.012	+5.117
8.5	22 33 22 48 2	- 3 56.6 4 21.7	55 56.6 46.7	15 16.2 12.7	338.505	+4.785
9.5	23 21 24 49 31	+ 0 25.1 4 28.3	56 43.3 52.9	15 28.9 14.5	351.297	+4.209
10.5	0 10 55 51 51	+ 4 53.4 4 22.6	57 36.2 56.2	15 43.4 15.2	4.450	+3.400
11.5	1 2 46 54 55	+ 9 16.0 4 1.4	58 32.4 55.6	15 58.6 15.2	18.014	+2.379
12.5	1 57 41	+13 17.4	59 28.0	16 13.8	32.016	+1.185

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
1920											
Mai 2	14 <sup>h</sup> 35 <sup>m</sup> 11 <sup>s</sup>	128 <sup>s</sup>	-15° 37.0	- 7.0	54.8	11 <sup>h</sup> 52 <sup>m</sup>	1.96	6 <sup>h</sup> 59 <sup>m</sup>	2.6	16 <sup>h</sup> 40 <sup>m</sup>	1.4
3	15 26 39	130	-18 0.2	- 4.9	54.5	12 40.2	1.99	8 1	2.5	17 15	1.6
4	16 18 41	131	-19 30.7	- 2.6	54.2	13 28.2	2.01	8 59	2.3	17 55	1.8
5	17 10 56	131	-20 4.8	- 0.2	54.1	14 16.4	2.01	9 52	2.1	18 41	2.0
6	18 2 57	129	-19 41.5	+ 2.1	54.1	15 4.3	1.99	10 39	1.8	19 32	2.1
7	18 54 23	128	-18 22.8	+ 4.4	54.2	15 51.7	1.96	11 19	1.6	20 28	2.3
8	19 45 1	126	-16 12.8	+ 6.4	54.4	16 38.2	1.93	11 54	1.4	21 28	2.5
9	20 34 54	124	-13 16.9	+ 8.2	54.9	17 24.1	1.90	12 25	1.2	22 31	2.7
10	21 24 22	123	- 9 41.5	+ 9.7	55.5	18 9.5	1.89	12 52	1.1	23 36	2.7
11	22 13 55	125	- 5 33.9	+10.9	56.2	18 54.9	1.91	13 17	1.0	—	—
12	23 4 17	128	- 1 2.8	+11.6	57.1	19 41.2	1.96	13 41	1.0	0 43	2.8
13	23 56 18	133	+ 3 41.9	+11.9	58.1	20 29.2	2.04	14 6	1.1	1 53	3.0
14	0 50 51	140	+ 8 23.2	+11.5	59.1	21 19.6	2.17	14 32	1.2	3 6	3.1
15	1 48 41	149	+12 45.1	+10.2	59.9	22 13.4	2.32	15 2	1.3	4 21	3.2
16	2 50 12	158	+16 24.3	+ 7.9	60.6	23 10.8	2.47	15 37	1.6	5 38	3.2
17	—	—	—	—	—	—	—	16 20	2.0	6 56	3.2
18	3 55 0	165	+18 56.8	+ 4.7	61.0	0 11.5	2.58	17 13	2.4	8 10	3.0
19	5 1 49	168	+20 3.5	+ 0.8	61.1	1 14.2	2.63	18 15	2.8	9 17	2.6
20	6 8 38	165	+19 36.3	- 3.1	60.8	2 16.9	2.58	19 26	3.1	10 13	2.1
21	7 13 27	158	+17 40.8	- 6.4	60.3	3 17.6	2.46	20 41	3.1	10 59	1.7
22	8 14 55	149	+14 33.9	- 9.0	59.6	4 15.0	2.31	21 56	3.1	11 37	1.4
23	9 12 41	140	+10 36.8	-10.6	58.7	5 8.7	2.16	23 10	3.0	12 8	1.2
24	10 7 9	133	+ 6 10.5	-11.4	57.9	5 59.0	2.04	—	—	12 35	1.1
25	10 59 6	127	+ 1 32.6	-11.6	57.1	6 46.9	1.96	0 22	3.0	13 0	1.0
26	11 49 25	125	- 3 2.5	-11.2	56.4	7 33.2	1.91	1 32	2.9	13 24	1.0
27	12 38 58	124	- 7 22.9	-10.4	55.7	8 18.6	1.89	2 40	2.8	13 48	1.0
28	13 28 30	124	-11 18.3	- 9.2	55.2	9 4.1	1.90	3 46	2.7	14 14	1.1
29	14 18 32	126	-14 39.5	- 7.5	54.8	9 50.1	1.93	4 51	2.6	14 43	1.3
30	15 9 21	128	-17 18.1	- 5.6	54.4	10 36.8	1.96	5 53	2.5	15 15	1.5
31	16 0 56	130	-19 6.9	- 3.4	54.2	11 24.3	1.99	6 52	2.4	15 53	1.7
Juni 1	16 53 2	131	-20 1.1	- 1.1	54.0	12 12.4	2.00	7 47	2.2	16 37	1.9
2	17 45 11	130	-19 58.1	+ 1.3	54.0	13 0.4	2.00	8 36	1.9	17 26	2.2
3	18 36 54	128	-18 58.7	+ 3.6	54.0	13 48.1	1.97	9 18	1.6	18 21	2.4
4	19 27 48	126	-17 6.4	+ 5.7	54.2	14 34.9	1.93	9 55	1.4	19 20	2.5
5	20 17 46	124	-14 26.9	+ 7.5	54.4	15 20.8	1.89	10 27	1.2	20 21	2.6
6	21 6 53	122	-11 6.9	+ 9.1	54.9	16 5.9	1.87	10 55	1.1	21 25	2.7
7	21 55 35	122	- 7 14.2	+10.3	55.4	16 50.5	1.86	11 20	1.0	22 30	2.7
8	22 44 28	123	- 2 56.8	+11.1	56.1	17 35.3	1.88	11 44	1.0	23 37	2.8
9	23 34 19	127	+ 1 35.9	+11.5	56.9	18 21.1	1.94	12 8	1.0	—	—
10	0 26 5	133	+ 6 12.8	+11.4	57.9	19 8.8	2.04	12 33	1.1	0 46	2.9
11	1 20 41	141	+10 39.5	+10.7	58.9	19 59.3	2.17	13 0	1.2	1 58	3.0
12	2 18 54	151	+14 37.8	+ 9.0	59.8	20 53.4	2.34	13 31	1.4	3 12	3.1

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1920						
Juni 12.5	1 <sup>h</sup> 57 <sup>m</sup> 41 <sup>s</sup> 58 <sup>m</sup> 24 <sup>s</sup>	+13° 17.4 3 21.6	59 28.0 49.7	16' 13.8 13.5	32.016	+1.185
13.5	2 56 5 61 45	+16 39.0 2 21.5	60 17.7 38.4	16 27.3 10.5	46.454	-0.118
14.5	3 57 50 64 9	+19 0.5 1 3.8	60 56.1 22.1	16 37.8 6.0	61.275	-1.444
15.5	5 1 59 64 54	+20 4.3 0 23.6	61 18.2 2.7	16 43.8 0.8	76.380	-2.693
16.5	6 6 53 63 45	+19 40.7 1 48.8	61 20.9 17.1	16 44.6 4.7	91.625	-3.760
17.5	7 10 38 61 7	+17 51.9 3 0.8	61 3.8 34.3	16 39.9 9.4	106.835	-4.557
18.5	8 11 45 57 48	+14 51.1 3 52.8	60 29.5 46.9	16 30.5 12.7	121.842	-5.028
19.5	9 9 33 54 33	+10 58.3 4 23.8	59 42.6 54.0	16 17.8 14.7	136.505	-5.156
20.5	10 4 6 51 50	+ 6 34.5 4 35.9	58 48.6 55.9	16 3.1 15.3	150.731	-4.959
21.5	10 55 56 49 54	+ 1 58.6 4 33.0	57 52.7 53.5	15 47.8 14.5	164.485	-4.478
22.5	11 45 50 48 45	- 2 34.4 4 18.0	56 59.2 48.2	15 33.3 13.2	177.776	-3.769
23.5	12 34 35 48 19	- 6 52.4 3 53.4	56 11.0 41.1	15 20.1 11.2	190.650	-2.888
24.5	13 22 54 48 27	-10 45.8 3 21.0	55 29.9 33.2	15 8.9 9.0	203.173	-1.890
25.5	14 11 21 48 57	-14 6.8 2 41.6	54 56.7 25.3	14 59.9 6.9	215.420	-0.827
26.5	15 0 18 49 35	-16 48.4 1 56.3	54 31.4 17.8	14 53.0 4.9	227.466	+0.254
27.5	15 49 53 50 8	-18 44.7 1 6.4	54 13.6 10.8	14 48.1 2.9	239.381	+1.311
28.5	16 40 1 50 24	-19 51.1 0 13.8	54 2.8 4.6	14 45.2 1.3	251.224	+2.301
29.5	17 30 25 50 15	-20 4.9 0 39.5	53 58.2 1.2	14 43.9 0.3	263.045	+3.188
30.5	18 20 40 49 44	-19 25.4 1 30.6	53 59.4 6.5	14 44.2 1.9	274.885	+3.937
Juli 1.5	19 10 24 48 56	-17 54.8 2 17.6	54 5.9 11.7	14 46.1 3.1	286.775	+4.516
2.5	19 59 20 48 4	-15 37.2 2 58.4	54 17.6 17.1	14 49.2 4.7	298.742	+4.899
3.5	20 47 24 47 22	-12 38.8 3 31.9	54 34.7 22.7	14 53.9 6.2	310.811	+5.068
4.5	21 34 46 47 2	- 9 6.9 3 57.6	54 57.4 28.7	15 0.1 7.8	323.009	+5.009
5.5	22 21 48 47 15	- 5 9.3 4 14.6	55 26.1 34.8	15 7.9 9.5	335.368	+4.716
6.5	23 9 3 48 8	- 0 54.7 4 22.2	56 0.9 40.9	15 17.4 11.1	347.927	+4.194
7.5	23 57 11 49 48	+ 3 27.5 4 19.1	56 41.8 46.0	15 28.5 12.5	0.733	+3.452
8.5	0 46 59 52 14	+ 7 46.6 4 3.2	57 27.8 49.7	15 41.0 13.6	13.836	+2.514
9.5	1 39 13 55 18	+11 49.8 3 32.0	58 17.5 50.4	15 54.6 13.8	27.286	+1.414
10.5	2 34 31 58 38	+15 21.8 2 43.3	59 7.9 47.2	16 8.4 12.8	41.123	+0.202
11.5	3 33 9 61 40	+18 5.1 1 37.1	59 55.1 39.2	16 21.2 10.7	55.364	-1.056
12.5	4 34 49 63 39	+19 42.2 0 17.0	60 34.3 26.4	16 31.9 7.1	69.989	-2.277
13.5	5 38 28 64 1	+19 59.2 1 8.6	61 0.7 9.5	16 39.0 2.7	84.932	-3.366
14.5	6 42 29 62 44	+18 50.6 2 28.5	61 10.2 9.1	16 41.7 2.6	100.074	-4.233
15.5	7 45 13 60 13	+16 22.1 3 33.2	61 1.1 27.2	16 39.1 7.3	115.255	-4.802
16.5	8 45 26 57 14	+12 48.9 4 16.9	60 33.9 42.0	16 31.8 11.5	130.300	-5.033
17.5	9 42 40 54 22	+ 8 32.0 4 39.1	59 51.9 51.9	16 20.3 14.1	145.048	-4.923
18.5	10 37 2 52 4	+ 3 52.9 4 42.5	59 0.0 56.4	16 6.2 15.4	159.380	-4.502
19.5	11 29 6 50 26	- 0 49.6 4 30.7	58 3.6 55.9	15 50.8 15.2	173.233	-3.826
20.5	12 19 32 49 29	- 5 20.3 4 7.1	57 7.7 51.5	15 35.6 14.0	186.598	-2.960
21.5	13 9 1 49 9	- 9 27.4 3 34.8	56 16.2 44.4	15 21.6 12.2	199.511	-1.967
22.5	13 58 10 49 14	-13 2.2 2 55.4	55 31.8 35.8	15 9.4 9.7	212.038	-0.906
23.5	14 47 24	-15 57.6	54 56.0	14 59.7	224.262	+0.171



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
1920											
Juni 12	2 <sup>h</sup> 18 <sup>m</sup> 54 <sup>s</sup>	151 <sup>s</sup>	+14° 37.8	+ 9.0	59.8	20 <sup>h</sup> 53.4	2.34	13 <sup>h</sup> 31 <sup>m</sup>	1.4	3 <sup>h</sup> 12 <sup>m</sup>	3.1
13	3 21 5	160	+17 45.5	+ 6.4	60.6	21 51.5	2.50	14 9	1.8	4 28	3.2
14	4 26 43	167	+19 39.9	+ 3.0	61.1	22 53.1	2.62	14 56	2.2	5 44	3.1
15	5 34 19	170	+20 3.6	- 1.0	61.4	23 56.5	2.65	15 53	2.6	6 55	2.8
16	—	—	—	—	—	—	—	17 1	3.0	7 58	2.4
17	6 41 39	166	+18 51.7	- 4.9	61.2	0 59.8	2.60	18 16	3.2	8 51	2.0
18	7 46 42	159	+16 13.9	- 8.1	60.8	2 0.7	2.47	19 34	3.3	9 33	1.6
19	8 48 12	149	+12 30.7	-10.3	60.0	2 58.1	2.31	20 52	3.2	10 8	1.3
20	9 45 56	140	+ 8 6.2	-11.6	59.1	3 51.7	2.16	22 7	3.1	10 38	1.2
21	10 40 25	133	+ 3 22.8	-11.9	58.2	4 42.1	2.04	23 20	3.0	11 4	1.1
22	11 32 28	128	- 1 21.5	-11.7	57.2	5 30.1	1.96	—	—	11 29	1.0
23	12 23 2	125	- 5 52.7	-10.9	56.4	6 16.6	1.92	0 30	2.9	11 53	1.0
24	13 12 56	125	-10 0.0	- 9.7	55.6	7 2.4	1.91	1 37	2.8	12 19	1.1
25	14 2 51	125	-13 34.3	- 8.1	55.0	7 48.3	1.92	2 43	2.7	12 47	1.2
26	14 53 17	127	-16 28.0	- 6.3	54.6	8 34.6	1.94	3 46	2.6	13 18	1.4
27	15 44 24	129	-18 34.3	- 4.2	54.3	9 21.7	1.97	4 46	2.4	13 54	1.6
28	16 36 9	130	-19 47.9	- 1.9	54.1	10 9.4	2.00	5 42	2.2	14 35	1.8
29	17 28 13	130	-20 5.4	+ 0.5	54.0	10 57.4	2.00	6 33	2.0	15 22	2.1
30	18 20 10	129	-19 26.1	+ 2.8	54.0	11 45.2	1.98	7 18	1.8	16 15	2.3
Juli 1	19 11 31	127	-17 52.1	+ 5.0	54.1	12 32.5	1.95	7 57	1.5	17 12	2.5
2	20 1 59	125	-15 28.4	+ 6.9	54.3	13 18.9	1.92	8 31	1.3	18 13	2.6
3	20 51 31	123	-12 21.7	+ 8.6	54.6	14 4.4	1.88	9 0	1.1	19 16	2.7
4	21 40 18	121	- 8 40.1	+ 9.8	55.0	14 49.1	1.85	9 26	1.0	20 21	2.7
5	22 28 47	121	- 4 32.4	+10.7	55.5	15 33.5	1.85	9 50	1.0	21 27	2.7
6	23 17 36	123	- 0 7.9	+11.2	56.1	16 18.3	1.88	10 14	1.0	22 34	2.8
7	0 7 32	127	+ 4 22.9	+11.3	56.9	17 4.1	1.94	10 38	1.0	23 43	2.9
8	0 59 30	133	+ 8 48.1	+10.7	57.7	17 52.0	2.05	11 3	1.1	—	—
9	1 54 22	141	+12 52.9	+ 9.5	58.5	18 42.8	2.19	11 31	1.3	0 54	3.0
10	2 52 46	151	+16 19.7	+ 7.5	59.4	19 37.1	2.34	12 5	1.6	2 7	3.0
11	3 54 54	160	+18 48.3	+ 4.7	60.2	20 35.2	2.49	12 46	1.9	3 20	3.0
12	5 0 8	166	+19 59.1	+ 1.1	60.8	21 36.3	2.59	13 36	2.3	4 32	2.9
13	6 6 56	167	+19 39.3	- 2.8	61.1	22 39.0	2.61	14 37	2.8	5 39	2.6
14	7 13 17	164	+17 47.5	- 6.4	61.1	23 41.2	2.55	15 48	3.1	6 37	2.2
15	—	—	—	—	—	—	—	17 6	3.3	7 25	1.8
16	8 17 24	157	+14 36.2	- 9.3	60.8	0 41.2	2.44	18 26	3.3	8 4	1.5
17	9 18 19	148	+10 27.0	-11.2	60.2	1 38.0	2.30	19 44	3.2	8 36	1.3
18	10 15 53	140	+ 5 44.4	-12.1	59.4	2 31.5	2.16	21 0	3.1	9 5	1.2
19	11 10 36	134	+ 0 51.3	-12.2	58.4	3 22.1	2.06	22 14	3.0	9 32	1.1
20	12 3 14	130	- 3 54.1	-11.5	57.4	4 10.7	1.99	23 24	2.9	9 57	1.1
21	12 54 34	127	- 8 18.0	-10.4	56.5	4 58.0	1.95	—	—	10 23	1.1
22	13 45 21	127	-12 9.7	- 8.9	55.7	5 44.7	1.94	0 31	2.8	10 50	1.2
23	14 36 9	127	-15 21.4	- 7.1	55.1	6 31.4	1.95	1 36	2.7	11 20	1.3

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1920						
Juli 23.5	14 <sup>h</sup> 47 <sup>m</sup> 24 <sup>s</sup> 49 37	-15° 57.6 2 10.7	54 56.0 26.4	14 59.7 7.2	224.262	+0.171
24.5	15 37 1 50 1	-18 8.3 1 21.5	54 29.6 17.2	14 52.5 4.7	236.269	+1.221
25.5	16 27 2 50 17	-19 29.8 0 29.6	54 12.4 8.5	14 47.8 2.3	248.144	+2.204
26.5	17 17 19 50 16	-19 59.4 0 23.2	54 3.9 0.8	14 45.5 0.3	259.963	+3.086
27.5	18 7 35 49 57	-19 36.2 1 15.2	54 3.1 6.1	14 45.2 1.7	271.791	+3.833
28.5	18 57 32 49 21	-18 21.0 2 3.7	54 9.2 11.9	14 46.9 3.2	283.680	+4.416
29.5	19 46 53 48 37	-16 17.3 2 47.0	54 21.1 16.7	14 50.1 4.6	295.667	+4.808
30.5	20 35 30 47 57	-13 30.3 3 23.4	54 37.8 20.8	14 54.7 5.7	307.779	+4.988
31.5	21 23 27 47 29	-10 6.9 3 51.6	54 58.6 24.4	15 0.4 6.6	320.032	+4.941
Aug. 1.5	22 10 56 47 27	- 6 15.3 4 10.8	55 23.0 27.8	15 7.0 7.6	332.440	+4.661
2.5	22 58 23 47 58	- 2 4.5 4 19.9	55 50.8 31.0	15 14.6 8.4	345.014	+4.151
3.5	23 46 21 49 6	+ 2 15.4 4 18.1	56 21.8 34.1	15 23.0 9.4	357.767	+3.428
4.5	0 35 27 50 54	+ 6 33.5 4 4.3	56 55.9 36.8	15 32.4 10.0	10.722	+2.516
5.5	1 26 21 53 17	+10 37.8 3 36.8	57 32.7 38.7	15 42.4 10.5	23.908	+1.453
6.5	2 19 38 56 4	+14 14.6 2 54.5	58 11.4 39.0	15 52.9 10.6	37.358	+0.288
7.5	3 15 42 58 48	+17 9.1 1 57.1	58 50.4 37.0	16 3.5 10.1	51.103	-0.920
8.5	4 14 30 61 1	+19 6.2 0 46.3	59 27.4 31.8	16 13.6 8.7	65.163	-2.099
9.5	5 15 31 62 9	+19 52.5 0 32.7	59 59.2 22.9	16 22.3 6.2	79.535	-3.170
10.5	6 17 40 61 56	+19 19.8 1 51.8	60 22.1 10.7	16 28.5 2.9	94.179	-4.054
11.5	7 19 36 60 31	+17 28.0 3 2.1	60 32.8 4.0	16 31.4 1.0	109.013	-4.677
12.5	8 20 7 58 20	+14 25.9 3 56.3	60 28.8 19.3	16 30.4 5.3	123.916	-4.986
13.5	9 18 27 55 57	+10 29.6 4 30.5	60 9.5 33.4	16 25.1 9.1	138.742	-4.958
14.5	10 14 24 53 48	+ 5 59.1 4 44.5	59 36.1 44.1	16 16.0 12.0	153.345	-4.605
15.5	11 8 12 52 7	+ 1 14.6 4 40.4	58 52.0 50.4	16 4.0 13.7	167.603	-3.970
16.5	12 0 19 50 59	- 3 25.8 4 21.5	58 1.6 52.3	15 50.3 14.3	181.439	-3.115
17.5	12 51 18 50 21	- 7 47.3 3 51.2	57 9.3 49.8	15 36.0 13.6	194.823	-2.110
18.5	13 41 39 50 8	-11 38.5 3 12.4	56 19.5 44.1	15 22.4 12.0	207.771	-1.025
19.5	14 31 47 50 10	-14 50.9 2 27.4	55 35.4 36.0	15 10.4 9.8	220.334	+0.081
20.5	15 21 57 50 19	-17 18.3 1 38.2	54 59.4 26.5	15 0.6 7.2	232.586	+1.157
21.5	16 12 16 50 23	-18 56.5 0 46.5	54 32.9 16.5	14 53.4 4.5	244.612	+2.162
22.5	17 2 39 50 18	-19 43.0 0 6.2	54 16.4 6.6	14 48.9 1.8	256.501	+3.061
23.5	17 52 57 50 0	-19 36.8 0 58.0	54 9.8 2.8	14 47.1 0.8	268.338	+3.823
24.5	18 42 57 49 31	-18 38.8 1 47.5	54 12.6 11.1	14 47.9 3.0	280.200	+4.422
25.5	19 32 28 48 56	-16 51.3 2 32.6	54 23.7 17.9	14 50.9 4.9	292.154	+4.831
26.5	20 21 24 48 24	-14 18.7 3 11.8	54 41.6 23.2	14 55.8 6.3	304.250	+5.030
27.5	21 9 48 48 4	-11 6.9 3 43.8	55 4.8 27.0	15 2.1 7.3	316.523	+5.001
28.5	21 57 52 48 4	- 7 23.1 4 6.7	55 31.8 29.2	15 9.4 8.0	328.995	+4.735
29.5	22 45 56 48 29	- 3 16.4 4 19.5	56 1.0 30.1	15 17.4 8.2	341.670	+4.232
30.5	23 34 25 49 28	+ 1 3.1 4 20.8	56 31.1 30.0	15 25.6 8.1	354.547	+3.506
31.5	0 23 53 50 57	+ 5 23.9 4 9.1	57 1.1 29.1	15 33.7 8.0	7.618	+2.585
Sept. 1.5	1 14 50 52 56	+ 9 33.0 3 43.6	57 30.2 28.0	15 41.7 7.6	20.876	+1.509
2.5	2 7 46	+13 16.6	57 58.2	15 49.3	34.316	+0.332

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
1920											
Juli 23	14 <sup>h</sup> 36 <sup>m</sup> 9 <sup>s</sup>	127 <sup>s</sup>	-15° 21.4	- 7.1	55.1	6 <sup>h</sup> 31.4	1.95	1 <sup>h</sup> 36 <sup>m</sup>	2.7	11 <sup>h</sup> 20 <sup>m</sup>	1.3
24	15 27 17	128	-17 46.5	- 5.0	54.6	7 18.5	1.97	2 38	2.5	11 54	1.5
25	16 18 53	129	-19 20.0	- 2.8	54.2	8 6.0	1.99	3 36	2.3	12 34	1.8
26	17 10 48	130	-19 58.6	- 0.4	54.1	8 53.8	2.00	4 28	2.1	13 19	2.0
27	18 2 46	130	-19 40.7	+ 1.9	54.0	9 41.7	1.99	5 15	1.9	14 10	2.2
28	18 54 24	128	-18 27.2	+ 4.2	54.1	10 29.3	1.97	5 57	1.6	15 5	2.5
29	19 45 24	127	-16 21.8	+ 6.2	54.3	11 16.2	1.94	6 33	1.4	16 5	2.6
30	20 35 35	124	-13 30.0	+ 8.0	54.6	12 2.3	1.90	7 4	1.2	17 8	2.7
31	21 25 1	123	- 9 59.7	+ 9.4	55.0	12 47.7	1.88	7 31	1.1	18 12	2.7
Aug. 1	22 13 59	122	- 5 59.6	+10.5	55.4	13 32.6	1.87	7 56	1.0	19 18	2.8
2	23 2 56	123	- 1 39.9	+11.1	55.9	14 17.5	1.88	8 20	1.0	20 25	2.8
3	23 52 31	125	+ 2 48.5	+11.2	56.4	15 3.0	1.92	8 44	1.0	21 33	2.9
4	0 43 26	130	+ 7 13.8	+10.8	57.0	15 49.8	1.99	9 9	1.1	22 43	2.9
5	1 36 28	136	+11 22.4	+ 9.8	57.7	16 38.8	2.10	9 36	1.2	23 54	3.0
6	2 32 15	143	+14 59.0	+ 8.1	58.3	17 30.5	2.22	10 7	1.4	—	—
7	3 31 10	151	+17 46.7	+ 5.7	59.0	18 25.3	2.35	10 43	1.7	1 6	3.0
8	4 33 5	158	+19 28.5	+ 2.7	59.6	19 23.1	2.46	11 28	2.1	2 16	2.8
9	5 37 11	162	+19 50.2	- 0.9	60.1	20 23.1	2.53	12 22	2.5	3 22	2.6
10	6 42 1	162	+18 45.1	- 4.5	60.5	21 23.9	2.52	13 27	2.9	4 22	2.3
11	7 46 3	158	+16 16.9	- 7.7	60.5	22 23.8	2.46	14 40	3.1	5 14	2.0
12	8 48 1	152	+12 39.6	-10.2	60.4	23 21.6	2.36	15 57	3.3	5 57	1.6
13	—	—	—	—	—	—	—	17 16	3.3	6 33	1.4
14	9 47 22	145	+ 8 14.2	-11.7	59.9	0 16.9	2.25	18 34	3.2	7 4	1.2
15	10 44 9	139	+ 3 23.6	-12.3	59.2	1 9.6	2.15	19 50	3.1	7 32	1.1
16	11 38 47	134	- 1 30.5	-12.1	58.4	2 0.1	2.07	21 3	3.0	7 59	1.1
17	12 31 54	131	- 6 10.3	-11.2	57.5	2 49.2	2.02	22 14	2.9	8 25	1.1
18	13 24 7	130	-10 21.8	- 9.7	56.6	3 37.3	2.00	23 21	2.7	8 52	1.2
19	14 15 57	129	-13 54.7	- 8.0	55.8	4 25.1	1.99	—	—	9 22	1.3
20	15 7 45	130	-16 41.5	- 5.9	55.1	5 12.8	1.99	0 25	2.6	9 55	1.5
21	15 59 42	130	-18 36.8	- 3.7	54.6	6 0.7	2.00	1 26	2.4	10 33	1.7
22	16 51 46	130	-19 37.4	- 1.4	54.3	6 48.7	2.00	2 21	2.2	11 16	1.9
23	17 43 46	130	-19 41.9	+ 1.0	54.2	7 36.6	1.99	3 10	1.9	12 4	2.1
24	18 35 30	129	-18 50.7	+ 3.3	54.2	8 24.3	1.98	3 54	1.7	12 58	2.3
25	19 26 42	127	-17 6.3	+ 5.4	54.4	9 11.4	1.95	4 32	1.5	13 56	2.5
26	20 17 17	126	-14 33.3	+ 7.3	54.7	9 57.9	1.92	5 5	1.3	14 58	2.6
27	21 7 15	124	-11 17.9	+ 8.9	55.1	10 43.8	1.90	5 34	1.1	16 2	2.7
28	21 56 51	124	- 7 28.2	+10.2	55.5	11 29.3	1.89	6 0	1.0	17 8	2.8
29	22 46 25	124	- 3 13.7	+11.0	56.0	12 14.9	1.90	6 25	1.0	18 15	2.8
30	23 36 29	126	+ 1 14.2	+11.3	56.5	13 0.9	1.93	6 49	1.0	19 24	2.9
31	0 27 39	130	+ 5 43.1	+11.0	57.1	13 47.9	1.99	7 14	1.1	20 34	2.9
Sept. 1	1 20 30	135	+ 9 58.8	+10.2	57.6	14 36.7	2.08	7 41	1.2	21 45	3.0
2	2 15 35	141	+13 45.9	+ 8.6	58.0	15 27.7	2.18	8 11	1.4	22 56	3.0

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1920						
Sept. 2.5	2 <sup>h</sup> 7 <sup>m</sup> 46 <sup>s</sup> 55 10	+13° 16.6	57 58.2	15 49.3	34.316	+0.332
3.5	3 2 56 57 25	+16 20.3	58 24.6	15 56.5	47.942	-0.881
4.5	4 0 21 59 15	+18 30.1	58 49.0	16 3.2	61.759	-2.061
5.5	4 59 36 60 14	+19 34.2	59 10.5	16 9.0	75.768	-3.135
6.5	5 59 50 60 14	+19 25.0	59 28.0	16 13.8	89.962	-4.031
7.5	7 0 4 59 15	+18 1.2	59 39.6	16 17.0	104.312	-4.685
8.5	7 59 19 57 39	+15 28.2	59 43.4	16 18.0	118.768	-5.047
9.5	8 56 58 55 47	+11 57.9	59 37.8	16 16.5	133.252	-5.088
10.5	9 52 45 54 3	+ 7 46.2	59 21.9	16 12.2	147.665	-4.806
11.5	10 46 48 52 41	+ 3 11.2	58 55.6	16 5.0	161.907	-4.229
12.5	11 39 29 51 43	- 1 29.3	58 20.5	15 55.4	175.883	-3.406
13.5	12 31 12 51 12	- 5 59.0	57 39.3	15 44.2	189.525	-2.402
14.5	13 22 24 50 58	-10 4.1	56 55.1	15 32.1	202.797	-1.292
15.5	14 13 22 50 57	-13 33.5	56 11.6	15 20.3	215.697	-0.141
16.5	15 4 19 50 56	-16 19.3	55 31.8	15 9.4	228.255	+0.988
17.5	15 55 15 50 50	-18 15.9	54 58.6	15 0.4	240.524	+2.047
18.5	16 46 5 50 34	-19 20.4	54 33.8	14 53.6	252.574	+2.997
19.5	17 36 39 50 6	-19 31.8	54 18.8	14 49.5	264.487	+3.805
20.5	18 26 45 49 30	-18 51.2	54 14.1	14 48.2	276.345	+4.447
21.5	19 16 15 48 53	-17 21.0	54 19.8	14 49.8	288.233	+4.899
22.5	20 5 8 48 23	-15 4.9	54 35.2	14 54.0	300.226	+5.142
23.5	20 53 31 48 7	-12 8.0	54 59.0	15 0.5	312.392	+5.159
24.5	21 41 38 48 13	- 8 36.5	55 29.6	15 8.8	324.782	+4.937
25.5	22 29 51 48 47	- 4 37.8	56 4.8	15 18.4	337.432	+4.472
26.5	23 18 38 49 52	- 0 21.2	56 42.0	15 28.6	350.358	+3.771
27.5	0 8 30 51 28	+ 4 2.0	57 18.7	15 38.5	355.5	+2.854
28.5	0 59 58 53 28	+ 8 18.6	57 52.5	15 47.7	17.005	+1.762
29.5	1 53 26 55 41	+12 13.6	58 21.4	15 55.6	30.675	+0.549
30.5	2 49 7 57 47	+15 31.2	58 44.3	16 1.9	44.525	-0.714
Okt. 1.5	3 46 54 59 21	+17 56.1	59 0.9	16 6.4	58.515	-1.948
2.5	4 46 15 60 3	+19 16.0	59 11.1	16 9.2	72.605	-3.074
3.5	5 46 18 59 42	+19 23.4	59 15.8	16 10.5	86.761	-4.018
4.5	6 46 0 58 30	+18 17.5	59 15.3	16 10.4	100.950	-4.720
5.5	7 44 30 56 44	+16 3.8	59 10.2	16 9.0	115.140	-5.133
6.5	8 41 14 54 53	+12 53.0	59 0.6	16 6.3	129.292	-5.235
7.5	9 36 7 53 14	+ 8 59.3	58 46.1	16 2.4	143.365	-5.022
8.5	10 29 21 51 59	+ 4 38.1	58 26.5	15 57.0	157.312	-4.513
9.5	11 21 20 51 16	+ 0 5.4	58 1.8	15 50.3	171.084	-3.748
10.5	12 12 36 50 57	- 4 23.8	57 32.3	15 42.3	184.637	-2.782
11.5	13 3 33 50 59	- 8 35.4	56 59.2	15 33.3	197.933	-1.681
12.5	13 54 32 51 11	-12 17.3	56 24.1	15 23.7	210.950	-0.512
13.5	14 45 43	-15 19.4	55 49.1	15 14.1	223.684	+0.659

Tag	Obere Kulmination in Greenwich						°h 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
1920											
Sept. 2	2 <sup>h</sup> 15 <sup>m</sup> 35 <sup>s</sup>	141 <sup>s</sup>	+13 45.9	+ 8.6	58.0	15 <sup>h</sup> 27 <sup>m</sup> 7 <sup>s</sup>	2.18	8 <sup>h</sup> 11 <sup>m</sup>	1.4	22 <sup>h</sup> 56 <sup>m</sup>	3.0
3	3 13 12	147	+16 48.2	+ 6.4	58.5	16 21.2	2.28	8 46	1.6	—	—
4	4 13 16	153	+18 50.2	+ 3.6	58.9	17 17.2	2.38	9 27	1.9	0 6	2.9
5	5 15 14	156	+19 39.0	+ 0.4	59.3	18 15.1	2.44	10 17	2.3	1 13	2.7
6	6 18 2	157	+19 7.5	- 3.0	59.5	19 13.8	2.45	11 17	2.7	2 13	2.4
7	7 20 28	155	+17 16.2	- 6.2	59.7	20 12.1	2.41	12 25	2.9	3 6	2.0
8	8 21 31	150	+14 14.0	- 8.9	59.7	21 9.1	2.33	13 36	3.1	3 51	1.7
9	9 20 35	145	+10 16.4	-10.8	59.5	22 4.0	2.25	14 53	3.2	4 29	1.5
10	10 17 36	140	+ 5 42.6	-11.9	59.2	22 57.0	2.17	16 10	3.2	5 2	1.3
11	11 12 51	136	+ 0 52.9	-12.1	58.7	23 48.1	2.10	17 26	3.1	5 31	1.2
12	—	—	—	—	—	—	—	18 40	3.0	5 58	1.1
13	12 6 48	134	- 3 53.4	-11.6	58.0	0 38.0	2.06	19 52	3.0	6 25	1.1
14	12 59 56	132	- 8 20.2	-10.5	57.2	1 27.1	2.03	21 2	2.9	6 52	1.2
15	13 52 42	132	-12 13.4	- 8.9	56.5	2 15.7	2.02	22 9	2.7	7 21	1.3
16	14 45 22	132	-15 23.1	- 6.9	55.8	3 4.3	2.02	23 12	2.5	7 54	1.4
17	15 38 1	132	-17 42.2	- 4.7	55.1	3 52.9	2.03	—	—	8 30	1.6
18	16 30 37	131	-19 6.4	- 2.3	54.7	4 41.5	2.02	0 10	2.3	9 11	1.8
19	17 22 59	130	-19 33.9	0.0	54.4	5 29.7	2.00	1 2	2.0	9 57	2.0
20	18 14 53	129	-19 5.5	+ 2.3	54.2	6 17.6	1.98	1 47	1.8	10 49	2.3
21	19 6 9	127	-17 43.4	+ 4.5	54.3	7 4.8	1.95	2 28	1.6	11 45	2.4
22	19 56 44	126	-15 31.5	+ 6.5	54.5	7 51.3	1.92	3 3	1.4	12 45	2.6
23	20 46 43	124	-12 35.2	+ 8.2	54.9	8 37.2	1.90	3 34	1.2	13 48	2.7
24	21 36 23	124	- 9 1.0	+ 9.6	55.4	9 22.8	1.90	4 1	1.1	14 53	2.7
25	22 26 6	125	- 4 57.0	+10.7	56.0	10 8.4	1.91	4 27	1.1	16 0	2.8
26	23 16 24	127	- 0 33.1	+11.3	56.7	10 54.7	1.95	4 52	1.0	17 9	2.9
27	0 7 52	131	+ 3 58.7	+11.3	57.3	11 42.1	2.01	5 17	1.1	18 19	3.0
28	1 1 6	136	+ 8 24.0	+10.7	57.9	12 31.2	2.09	5 43	1.2	19 31	3.0
29	1 56 34	142	+12 26.1	+ 9.4	58.4	13 22.6	2.19	6 13	1.3	20 44	3.0
30	2 54 31	148	+15 47.4	+ 7.3	58.8	14 16.4	2.29	6 47	1.5	21 56	3.0
Okt. 1	3 54 46	153	+18 10.8	+ 4.6	59.0	15 12.6	2.38	7 27	1.8	23 5	2.8
2	4 56 41	156	+19 22.6	+ 1.4	59.2	16 10.4	2.43	8 15	2.2	—	—
3	5 59 10	156	+19 15.4	- 2.0	59.3	17 8.8	2.43	9 12	2.5	0 8	2.5
4	7 1 2	153	+17 49.5	- 5.1	59.2	18 6.6	2.38	10 17	2.8	1 3	2.1
5	8 1 21	148	+15 13.1	- 7.8	59.1	19 2.8	2.30	11 26	3.0	1 49	1.8
6	8 59 37	143	+11 39.6	- 9.9	58.9	19 57.0	2.21	12 39	3.1	2 28	1.5
7	9 55 51	138	+ 7 25.7	-11.2	58.7	20 49.1	2.13	13 54	3.1	3 2	1.3
8	10 50 23	135	+ 2 48.9	-11.8	58.3	21 39.6	2.07	15 8	3.1	3 32	1.2
9	11 43 47	133	- 1 53.5	-11.6	57.8	22 28.9	2.04	16 21	3.0	3 59	1.1
10	12 36 35	132	- 6 25.2	-10.9	57.3	23 17.6	2.02	17 33	3.0	4 25	1.1
11	—	—	—	—	—	—	—	18 44	2.9	4 52	1.2
12	13 29 15	132	-10 31.7	- 9.6	56.7	0 6.2	2.03	19 52	2.8	5 21	1.2
13	14 22 3	132	-14 0.7	- 7.8	56.1	0 54.9	2.04	20 57	2.6	5 52	1.4

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1920						
Okt. 13.5	14 45 43 <sup>a</sup> 51 21 <sup>m</sup>	-15 19.4 2 14.8	55 49.1 32.6	15 14.1 8.9	223.684	+0.659
14.5	15 37 4 51 20	-17 34.2 1 23.1	55 16.5 27.8	15 5.2 7.5	236.150	+1.775
15.5	16 28 24 51 2	-18 57.3 0 29.5	54 48.7 21.1	14 57.7 5.8	248.380	+2.789
16.5	17 19 26 50 26	-19 26.8 0 23.3	54 27.6 12.5	14 51.9 3.4	260.422	+3.663
17.5	18 9 52 49 38	-19 3.5 1 13.6	54 15.1 2.8	14 48.5 0.7	272.338	+4.370
18.5	18 59 30 48 47	-17 49.9 1 59.8	54 12.3 7.5	14 47.8 2.0	284.198	+4.885
19.5	19 48 17 48 3	-15 50.1 2 41.0	54 19.8 18.0	14 49.8 4.9	296.081	+5.194
20.5	20 36 20 47 37	-13 9.1 3 16.8	54 37.8 28.0	14 54.7 7.6	308.065	+5.280
21.5	21 23 57 47 36	-9 52.3 3 46.1	55 5.8 36.5	15 2.3 10.0	320.226	+5.134
22.5	22 11 33 48 8	-6 6.2 4 7.9	55 42.3 42.9	15 12.3 11.7	332.635	+4.748
23.5	22 59 41 49 17	-1 58.3 4 20.3	56 25.2 46.6	15 24.0 12.7	345.350	+4.123
24.5	23 48 58 51 3	+2 22.0 4 21.0	57 11.8 46.7	15 36.7 12.7	358.410	+3.269
25.5	0 40 1 53 24	+6 43.0 4 7.1	57 58.5 42.8	15 49.4 11.7	11.829	+2.214
26.5	1 33 25 56 2	+10 50.1 3 36.3	58 41.3 35.3	16 1.1 9.6	25.597	+1.006
27.5	2 29 27 58 38	+14 26.4 2 47.6	59 16.6 24.9	16 10.7 6.7	39.672	-0.291
28.5	3 28 5 60 40	+17 14.0 1 43.3	59 41.5 13.1	16 17.4 3.7	53.988	-1.591
29.5	4 28 45 61 35	+18 57.3 0 28.4	59 54.6 1.3	16 21.1 0.3	68.460	-2.803
30.5	5 30 20 61 13	+19 25.7 0 48.8	59 55.9 9.3	16 21.4 2.5	82.993	-3.839
Nov. 31.5	6 31 33 59 41	+18 36.9 2 0.2	59 46.6 17.4	16 18.9 4.8	97.498	-4.628
1.5	7 31 14 57 26	+16 36.7 2 59.6	59 29.2 23.2	16 14.1 6.3	111.897	-5.119
2.5	8 28 40 55 2	+13 37.1 3 44.0	59 6.0 26.6	16 7.8 7.3	126.132	-5.289
3.5	9 23 42 52 55	+9 53.1 4 12.5	58 39.4 28.6	16 0.5 7.8	140.163	-5.141
4.5	10 16 37 51 20	+5 40.6 4 26.1	58 10.8 29.3	15 52.7 8.0	153.971	-4.697
5.5	11 7 57 50 24	+1 14.5 4 25.7	57 41.5 29.6	15 44.7 8.0	167.546	-3.996
6.5	11 58 21 50 2	-3 11.2 4 12.8	57 11.9 29.6	15 36.7 8.0	180.889	-3.089
7.5	12 48 23 50 9	-7 24.0 3 48.1	56 42.3 29.4	15 28.7 8.0	194.006	-2.033
8.5	13 38 32 50 34	-11 12.1 3 13.4	56 12.9 28.7	15 20.7 7.9	206.903	-0.890
9.5	14 29 6 51 2	-14 25.5 2 30.1	55 44.2 27.3	15 12.8 7.4	219.587	+0.277
10.5	15 20 8 51 20	-16 55.6 1 40.4	55 16.9 24.9	15 5.4 6.8	232.069	+1.413
11.5	16 11 28 51 17	-18 36.0 0 47.5	54 52.0 21.1	14 58.6 5.7	244.363	+2.464
12.5	17 2 45 50 50	-19 23.5 0 6.2	54 30.9 15.8	14 52.9 4.4	256.491	+3.388
13.5	17 53 35 50 1	-19 17.3 0 57.6	54 15.1 9.0	14 48.5 2.4	268.483	+4.151
14.5	18 43 36 48 59	-18 19.7 1 44.9	54 6.1 0.8	14 46.1 0.2	280.377	+4.727
15.5	19 32 35 47 57	-16 34.8 2 26.9	54 5.3 8.4	14 45.9 2.2	292.225	+5.099
16.5	20 20 32 47 9	-14 7.9 3 2.9	54 13.7 18.5	14 48.1 5.1	304.087	+5.253
17.5	21 7 41 46 44	-11 5.0 3 32.7	54 32.2 28.8	14 53.2 7.8	316.031	+5.183
18.5	21 54 25 46 53	-7 32.3 3 55.8	55 1.0 38.5	15 1.0 10.5	328.134	+4.884
19.5	22 41 18 47 45	-3 36.5 4 11.4	55 39.5 46.9	15 11.5 12.8	340.473	+4.356
20.5	23 29 3 49 19	+0 34.9 4 17.7	56 26.4 53.0	15 24.3 14.4	353.123	+3.606
21.5	0 18 22 51 40	+4 52.6 4 12.2	57 19.4 55.5	15 38.7 15.2	6.151	+2.651
22.5	1 10 2 54 38	+9 4.8 3 51.5	58 14.9 53.5	15 53.9 14.6	19.601	+1.522
23.5	2 4 40	+12 56.3	59 8.4	16 8.5	33.492	+0.270

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	
1920												
Okt. 13	14 <sup>h</sup> 22 <sup>m</sup> 3 <sup>a</sup>	132 <sup>a</sup>	-14 0.7	- 7.8	56.1	0 <sup>h</sup> 54.9	2.04	20 <sup>h</sup> 57 <sup>m</sup>	2.6	5 <sup>h</sup> 52 <sup>m</sup>	1.4	
14	15 15 5	133	-16 42.7	- 5.7	55.5	1 43.9	2.04	21 57	2.4	6 27	1.5	
15	16 8 12	133	-18 31.0	- 3.3	55.0	2 32.9	2.04	22 52	2.2	7 6	1.7	
16	17 1 7	132	-19 22.4	- 0.9	54.6	3 21.8	2.03	23 41	1.9	7 50	2.0	
17	17 53 29	130	-19 16.8	+ 1.4	54.3	4 10.1	2.00	—	—	8 40	2.2	
18	18 45 2	128	-18 16.5	+ 3.6	54.2	4 57.5	1.96	0 24	1.7	9 34	2.4	
19	19 35 38	125	-16 25.6	+ 5.6	54.3	5 44.1	1.92	1 1	1.4	10 32	2.5	
20	20 25 22	123	-13 49.4	+ 7.4	54.5	6 29.7	1.89	1 33	1.2	11 33	2.6	
21	21 14 32	123	-10 33.8	+ 8.9	55.0	7 14.8	1.87	2 1	1.1	12 36	2.7	
22	22 3 35	123	- 6 45.7	+10.1	55.6	7 59.8	1.88	2 27	1.0	13 42	2.8	
23	22 53 7	125	- 2 32.8	+10.9	56.3	8 45.3	1.91	2 52	1.0	14 49	2.8	
24	23 43 49	129	+ 1 55.0	+11.3	57.1	9 31.9	1.97	3 17	1.0	15 58	2.9	
25	0 36 25	134	+ 6 25.2	+11.1	57.9	10 20.4	2.07	3 43	1.1	17 10	3.0	
26	1 31 34	141	+10 42.2	+10.2	58.7	11 11.5	2.19	4 11	1.3	18 24	3.1	
27	2 29 40	149	+14 27.1	+ 8.4	59.3	12 5.5	2.31	4 43	1.5	19 39	3.1	
28	3 30 41	156	+17 19.9	+ 5.8	59.7	13 2.4	2.42	5 22	1.8	20 51	2.9	
29	4 33 56	160	+19 2.6	+ 2.6	59.9	14 1.6	2.49	6 9	2.1	21 58	2.6	
30	5 38 6	160	+19 23.7	- 0.9	59.9	15 1.6	2.50	7 4	2.5	22 57	2.3	
Nov. 31	6 41 41	157	+18 21.5	- 4.2	59.7	16 1.1	2.45	8 7	2.8	23 48	1.9	
1	7 43 20	151	+16 3.8	- 7.1	59.4	16 58.7	2.35	9 17	3.0	—	—	
2	8 42 24	144	+12 45.6	- 9.3	59.0	17 53.6	2.23	10 30	3.1	0 30	1.6	
3	9 38 49	138	+ 8 44.1	-10.7	58.5	18 46.0	2.13	11 44	3.1	1 5	1.4	
4	10 33 1	133	+ 4 17.1	-11.4	58.0	19 36.1	2.05	12 57	3.0	1 36	1.2	
5	11 25 41	130	- 0 19.3	-11.5	57.5	20 24.7	2.00	14 9	3.0	2 3	1.1	
6	12 17 33	129	- 4 50.4	-11.0	57.0	21 12.5	1.98	15 19	2.9	2 29	1.1	
7	13 9 15	129	- 9 2.7	- 9.9	56.5	22 0.1	1.99	16 29	2.9	2 55	1.1	
8	14 1 14	131	-12 44.0	- 8.4	56.0	22 48.0	2.01	17 37	2.8	3 22	1.2	
9	14 53 44	132	-15 43.9	- 6.5	55.5	23 36.4	2.03	18 43	2.7	3 51	1.3	
10	—	—	—	—	—	—	—	19 45	2.5	4 24	1.5	
11	15 46 41	133	-17 54.0	- 4.3	55.1	0 25.3	2.04	20 43	2.3	5 1	1.7	
12	16 39 47	133	-19 8.9	- 1.9	54.7	1 14.3	2.04	21 35	2.0	5 44	1.9	
13	17 32 36	131	-19 26.3	+ 0.5	54.3	2 3.1	2.02	22 20	1.7	6 32	2.1	
14	18 24 39	129	-18 47.5	+ 2.7	54.1	2 51.1	1.98	22 59	1.5	7 24	2.3	
15	19 15 38	126	-17 16.4	+ 4.8	54.1	3 38.0	1.93	23 32	1.3	8 21	2.5	
16	20 5 27	123	-14 58.7	+ 6.6	54.2	4 23.7	1.88	—	—	9 21	2.5	
17	20 54 16	121	-12 0.6	+ 8.2	54.4	5 8.5	1.85	0 2	1.2	10 22	2.6	
18	21 42 30	120	- 8 29.1	+ 9.4	54.9	5 52.6	1.84	0 29	1.1	11 25	2.7	
19	22 30 44	121	- 4 31.1	+10.4	55.5	6 36.8	1.86	0 53	1.0	12 30	2.7	
20	23 19 43	124	- 0 14.5	+11.0	56.3	7 21.7	1.90	1 17	1.0	13 37	2.8	
21	0 10 18	129	+ 4 11.2	+11.1	57.2	8 8.2	1.98	1 42	1.1	14 46	2.9	
22	1 3 19	136	+ 8 33.6	+10.7	58.1	8 57.2	2.10	2 9	1.2	15 58	3.0	
23	1 59 34	145	+12 36.6	+ 9.5	59.1	9 49.3	2.25	2 39	1.3	17 12	3.1	

Mittlere Zeit Greenwich	Scheinbare Rektaszension	Scheinbare Deklination	Parallaxe	Halbmesser	Länge	Breite
1920						
Nov. 23.5	<sup>h</sup> 2 <sup>m</sup> 4 <sup>s</sup> 40 <sup>m</sup> 57 53	+12 56.3	59 8.4	16 8.5	33.492	+0.270
24.5	3 2 33 60 55	+16 9.0	59 54.8	16 21.1	47.801	-1.035
25.5	4 3 28 63 0	+18 24.2	60 29.1	16 30.4	62.463	-2.301
26.5	5 6 28 63 34	+19 25.9	60 47.8	16 35.5	77.368	-3.430
27.5	6 10 2 62 29	+19 5.8	60 49.2	16 35.9	92.376	-4.330
28.5	7 12 31 60 9	+17 25.9	60 34.3	16 31.9	107.336	-4.931
29.5	8 12 40 57 16	+14 37.8	60 6.0	16 24.2	122.110	-5.196
30.5	9 9 56 54 28	+10 58.7	59 28.5	16 13.9	136.594	-5.122
Dez. 1.5	10 4 24 52 9	+ 6 47.1	58 46.0	16 2.4	150.727	-4.737
2.5	10 56 33 50 34	+ 2 20.2	58 2.3	15 50.5	164.488	-4.086
3.5	11 47 7 49 43	- 2 7.2	57 20.0	15 38.9	177.890	-3.225
4.5	12 36 50 49 29	- 6 22.8	56 40.9	15 28.3	190.967	-2.215
5.5	13 26 19 49 44	-10 15.9	56 5.8	15 18.7	203.766	-1.116
6.5	14 16 3 50 15	-13 37.1	55 34.9	15 10.3	216.333	+0.018
7.5	15 6 18 50 45	-16 18.5	55 8.1	15 2.9	228.709	+1.131
8.5	15 57 3 51 1	-18 13.4	54 45.4	14 56.8	240.932	+2.175
9.5	16 48 4 50 53	-19 17.2	54 26.5	14 51.6	253.031	+3.108
10.5	17 38 57 50 20	-19 27.9	54 11.9	14 47.7	265.029	+3.892
11.5	18 29 17 49 23	-18 46.3	54 1.9	14 45.0	276.950	+4.499
12.5	19 18 40 48 16	-17 15.8	53 57.4	14 43.7	288.819	+4.908
13.5	20 6 56 47 13	-15 1.6	53 59.2	14 44.2	300.666	+5.104
14.5	20 54 9 46 24	-12 10.2	54 8.5	14 46.7	312.531	+5.082
15.5	21 40 33 46 3	- 8 48.3	54 26.3	14 51.6	324.463	+4.838
16.5	22 26 36 46 21	- 5 2.9	54 53.1	14 58.9	336.524	+4.379
17.5	23 12 57 47 21	- 1 1.3	55 29.4	15 8.8	348.784	+3.713
18.5	0 0 18 49 9	+ 3 8.7	56 14.6	15 21.1	1.320	+2.856
19.5	0 49 27 51 46	+ 7 17.6	57 7.5	15 35.5	14.211	+1.831
20.5	1 41 13 55 1	+11 13.7	58 5.5	15 51.3	27.526	+0.677
21.5	2 36 14 58 35	+14 42.2	59 4.7	16 7.4	41.315	-0.554
22.5	3 34 49 61 48	+17 25.4	59 59.8	16 22.4	55.593	-1.792
23.5	4 36 37 63 57	+19 5.2	60 45.2	16 34.9	70.323	-2.947
24.5	5 40 34 64 26	+19 26.8	61 15.1	16 43.0	85.410	-3.924
25.5	6 45 0 63 11	+18 23.8	61 25.8	16 45.9	100.705	-4.633
26.5	7 48 11 60 39	+16 1.6	61 16.0	16 43.2	116.020	-5.010
27.5	8 48 50 57 40	+12 35.2	60 47.5	16 35.4	131.166	-5.032
28.5	9 46 30 54 49	+ 8 25.3	60 4.8	16 23.8	145.984	-4.713
29.5	10 41 19 52 31	+ 3 53.0	59 13.1	16 9.7	160.370	-4.101
30.5	11 33 50 50 58	- 0 43.4	58 18.1	15 54.7	174.282	-3.261
31.5	12 24 48	- 5 8.9	57 24.3	15 40.1	187.728	-2.265



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
1920											
Nov. 23	1 <sup>h</sup> 59 <sup>m</sup> 34 <sup>s</sup>	145 <sup>a</sup>	+12° 36.6	+ 9.5	59.1	9 49.3	2.25	2 39 <sup>m</sup>	1.3	17 12 <sup>m</sup>	3.1
24	2 59 28	154	+16 0.3	+ 7.4	59.9	10 45.1	2.40	3 14	1.6	18 27	3.1
25	4 2 47	162	+18 23.1	+ 4.4	60.5	11 44.4	2.53	3 57	2.0	19 40	2.9
26	5 8 30	166	+19 26.6	+ 0.8	60.8	12 46.0	2.59	4 49	2.4	20 45	2.5
27	6 14 47	165	+19 1.0	- 2.9	60.8	13 48.1	2.57	5 51	2.8	21 41	2.1
28	7 19 43	159	+17 9.4	- 6.3	60.5	14 49.0	2.48	7 1	3.0	22 28	1.8
29	8 21 54	151	+14 6.1	- 8.9	60.0	15 47.0	2.35	8 16	3.2	23 7	1.5
30	9 20 48	143	+10 11.4	-10.6	59.3	16 41.8	2.22	9 32	3.2	23 40	1.3
Dez. 1	10 16 39	136	+ 5 46.1	-11.4	58.6	17 33.6	2.10	10 47	3.1	—	—
2	11 10 8	131	+ 1 8.6	-11.6	57.8	18 23.0	2.02	12 0	3.0	0 8	1.1
3	12 2 3	129	- 3 25.4	-11.2	57.1	19 10.9	1.97	13 11	2.9	0 34	1.1
4	12 53 15	128	- 7 43.1	-10.2	56.5	19 58.0	1.96	14 21	2.8	1 0	1.1
5	13 44 25	128	-11 33.4	- 8.9	55.9	20 45.1	1.97	15 28	2.8	1 26	1.1
6	14 35 58	130	-14 46.5	- 7.1	55.4	21 32.6	1.99	16 34	2.7	1 54	1.2
7	15 28 7	131	-17 14.1	- 5.1	55.0	22 20.6	2.01	17 37	2.5	2 25	1.4
8	16 20 44	132	-18 49.6	- 2.8	54.6	23 9.2	2.02	18 36	2.3	3 0	1.6
9	17 13 29	132	-19 29.1	- 0.5	54.3	23 57.8	2.02	19 29	2.1	3 40	1.8
10	—	—	—	—	—	—	—	20 17	1.8	4 26	2.0
11	18 5 50	130	-19 12.1	+ 1.9	54.1	0 46.1	2.00	20 58	1.6	5 17	2.2
12	18 57 19	127	-18 0.9	+ 4.0	54.0	1 33.5	1.95	21 34	1.4	6 12	2.4
13	19 47 38	124	-16 0.5	+ 5.9	54.0	2 19.8	1.90	22 5	1.2	7 11	2.5
14	20 36 43	121	-13 17.8	+ 7.6	54.1	3 4.8	1.85	22 32	1.1	8 11	2.5
15	21 24 47	119	-10 0.1	+ 8.9	54.3	3 48.8	1.82	22 57	1.0	9 13	2.6
16	22 12 17	119	- 6 15.1	+ 9.8	54.7	4 32.2	1.81	23 21	1.0	10 16	2.7
17	22 59 52	120	- 2 10.3	+10.5	55.3	5 15.8	1.83	23 45	1.0	11 21	2.7
18	23 48 19	123	+ 2 5.9	+10.8	56.0	6 0.2	1.88	—	—	12 27	2.8
19	0 38 33	128	+ 6 24.0	+10.6	56.9	6 46.3	1.97	0 9	1.1	13 35	2.9
20	1 31 28	136	+10 31.9	+ 9.9	57.9	7 35.2	2.10	0 36	1.2	14 46	3.0
21	2 27 54	146	+14 13.8	+ 8.4	58.9	8 27.5	2.26	1 7	1.4	15 59	3.1
22	3 28 18	156	+17 10.5	+ 6.1	59.9	9 23.8	2.43	1 45	1.7	17 12	3.0
23	4 32 25	164	+19 0.9	+ 2.9	60.7	10 23.8	2.57	2 31	2.1	18 21	2.8
24	5 39 4	168	+19 27.2	- 0.8	61.2	11 26.4	2.63	3 27	2.6	19 24	2.5
25	6 46 19	167	+18 21.7	- 4.6	61.4	12 29.5	2.61	4 34	3.0	20 18	2.1
26	7 52 6	161	+15 50.2	- 7.9	61.2	13 31.2	2.52	5 49	3.2	21 2	1.7
27	8 54 59	153	+12 10.9	-10.2	60.7	14 29.9	2.38	7 8	3.3	21 39	1.4
28	9 54 29	145	+ 7 47.4	-11.6	60.0	15 25.3	2.24	8 27	3.3	22 11	1.2
29	10 50 51	138	+ 3 3.4	-12.0	59.1	16 17.6	2.12	9 44	3.1	22 39	1.1
30	11 44 50	133	- 1 41.4	-11.7	58.1	17 7.5	2.04	10 58	3.0	23 5	1.0
31	12 37 14	130	- 6 11.4	-10.8	57.2	17 55.8	1.99	12 10	2.8	23 31	1.0

Mittlere Zeit Greenwich	Mondbewegung			Lage des Mondäquators gegen den Erdäquator			
	$\Omega$	$L_{\odot}$	$M_{\odot}$	$i$	$\Delta$	$\Omega'$	$\Delta - \vartheta$
1920							
Jan. 0.5	232.3781	37.4381	329.36	24.416	49.687	2.951	357.305
10.5	231.8486	169.2020	100.01	24.427	49.178	2.928	357.325
20.5	231.3191	300.9660	230.65	24.438	48.669	2.905	357.346
30.5	230.7896	72.7300	1.30	24.448	48.160	2.882	357.367
Febr. 9.5	230.2600	204.4939	131.95	24.459	47.652	2.859	357.388
19.5	229.7305	336.2579	262.60	24.469	47.144	2.836	357.409
29.5	229.2010	108.0219	33.25	24.479	46.636	2.813	357.431
März 10.5	228.6715	239.7859	163.90	24.490	46.128	2.789	357.452
20.5	228.1419	11.5499	294.55	24.500	45.620	2.765	357.474
30.5	227.6124	143.3138	65.20	24.510	45.112	2.741	357.496
April 9.5	227.0828	275.0778	195.85	24.520	44.605	2.716	357.519
19.5	226.5532	46.8418	326.50	24.530	44.098	2.692	357.541
29.5	226.0237	178.6058	97.15	24.540	43.591	2.667	357.564
Mai 9.5	225.4942	310.3698	227.80	24.550	43.084	2.642	357.587
19.5	224.9646	82.1337	358.45	24.560	42.578	2.617	357.610
29.5	224.4351	213.8976	129.10	24.569	42.071	2.592	357.633
Juni 8.5	223.9056	345.6616	259.75	24.578	41.565	2.567	357.656
18.5	223.3760	117.4256	30.40	24.588	41.059	2.541	357.680
28.5	222.8465	249.1896	161.05	24.597	40.554	2.515	357.704
Juli 8.5	222.3170	20.9536	291.70	24.606	40.048	2.489	357.728
18.5	221.7874	152.7175	62.35	24.615	39.543	2.463	357.752
28.5	221.2578	284.4815	193.00	24.624	39.037	2.436	357.776
Aug. 7.5	220.7283	56.2454	323.65	24.633	38.532	2.409	357.800
17.5	220.1988	188.0094	94.30	24.642	38.027	2.383	357.825
27.5	219.6692	319.7734	224.95	24.651	37.522	2.356	357.849
Sept. 6.5	219.1397	91.5374	355.60	24.659	37.017	2.329	357.874
16.5	218.6102	223.3013	126.25	24.668	36.512	2.301	357.899
26.5	218.0806	355.0653	256.90	24.676	36.007	2.274	357.924
Okt. 6.5	217.5511	126.8293	27.55	24.684	35.503	2.246	357.949
16.5	217.0216	258.5933	158.20	24.692	34.999	2.218	357.975
26.5	216.4920	30.3573	288.85	24.700	34.495	2.190	358.001
Nov. 5.5	215.9624	162.1212	59.50	24.708	33.991	2.162	358.026
15.5	215.4329	293.8851	190.15	24.716	33.488	2.134	358.052
25.5	214.9034	65.6491	320.80	24.724	32.984	2.106	358.078
Dez. 5.5	214.3738	197.4131	91.45	24.732	32.481	2.077	358.104
15.5	213.8443	329.1771	222.10	24.739	31.977	2.049	358.131
25.5	213.3148	100.9411	352.75	24.747	31.474	2.020	358.157
35.5	212.7852	232.7050	123.40	24.754	30.971	1.991	358.183

Mittlere Zeit Greenwich	$\alpha_a - \alpha_k$	$\delta_a - \delta_k$	$\log \sin p_k$
<b>1920</b>			
<b>Jan.</b> 0.5	—0.16 —1.88 —0.41	+ 12.3 +20.7 + 3.7	8.23954 +502 — 64
1.5	—2.04 —2.05 —0.17	+ 33.0 +25.9 + 5.2	8.24456 +388 —114
2.5	—4.09 —1.94 +0.11	+ 58.9 +31.3 + 5.4	8.24844 +224 —164
3.5	—6.03 —1.53 +0.41	+ 90.2 +34.8 + 3.5	8.25068 + 21 —203
4.5	—7.56 —0.93 +0.60	+125.0 +34.5 — 0.3	8.25089 —196 —217
5.5	—8.49 —0.37 +0.56	+159.5 +29.5 — 5.0	8.24893 —398 —202
6.5	—8.86 0.00 +0.37	+189.0 +20.9 — 8.6	8.24495 —562 —164
7.5	—8.86 +0.17 +0.17	+209.9 +10.3 —10.6	8.23933 —667 —105
8.5	—8.69 +0.20 +0.03	+220.2 — 0.6 —10.9	8.23266 —709 — 42
9.5	—8.49 +0.17 —0.03	+219.6 —10.5 — 9.9	8.22557 —694 + 15
10.5	—8.32 +0.12 —0.05	+209.1 —18.8 — 8.3	8.21863 —629 + 65
11.5	—8.20 +0.13 +0.01	+190.3 —25.4 — 6.6	8.21234 —529 +100
12.5	—8.07	+164.9	8.20705
<b>Jan.</b> 27.5	—0.74 —1.31	+ 6.5 +21.5	8.23277 +379
28.5	—2.05 —1.41 —0.10	+ 28.0 +25.2 + 3.7	8.23656 +342 — 37
29.5	—3.46 —1.32 +0.09	+ 53.2 +28.9 + 3.7	8.23998 +274 — 68
30.5	—4.78 —1.05 +0.27	+ 82.1 +31.1 + 2.2	8.24272 +171 —103
31.5	—5.83 —0.70 +0.35	+113.2 +31.2 + 0.1	8.24443 + 36 —135
<b>Febr.</b> 1.5	—6.53 —0.36 +0.34	+144.4 +28.0 — 3.2	8.24479 —119 —155
2.5	—6.89 —0.14 +0.22	+172.4 +21.8 — 6.2	8.24360 —279 —160
3.5	—7.03 —0.07 +0.07	+194.2 +13.4 — 8.4	8.24081 —424 —145
4.5	—7.10 —0.09 —0.02	+207.6 + 3.9 — 9.5	8.23657 —538 —114
5.5	—7.19 —0.16 —0.07	+211.5 — 5.8 — 9.7	8.23119 —605 — 67
6.5	—7.35 —0.20 —0.04	+205.7 —14.7 — 8.9	8.22514 —621 — 16
7.5	—7.55 —0.19 +0.01	+191.0 —22.3 — 7.6	8.21893 —586 + 35
8.5	—7.74 —0.08 +0.11	+168.7 —28.2 — 5.9	8.21307 —513 + 73
9.5	—7.82 +0.13 +0.21	+140.5 —31.9 — 3.7	8.20794 —407 +106
10.5	—7.69 +0.43 +0.30	+108.6 —33.6 — 1.7	8.20387 —279 +128
11.5	—7.26	+ 75.0	8.20108
<b>Febr.</b> 26.5	—5.71 —0.70	+ 75.7 +31.3	8.23808 + 66
27.5	—6.41 —0.27 +0.43	+107.0 +30.5 — 0.8	8.23874 + 3 — 63
28.5	—6.68 +0.06 +0.33	+137.5 +26.9 — 3.6	8.23877 — 72 — 75
29.5	—6.62 +0.22 +0.16	+164.4 +21.0 — 5.9	8.23805 —157 — 85
<b>März</b> 1.5	—6.40 +0.20 —0.02	+185.4 +13.6 — 7.4	8.23648 —250 — 93
2.5	—6.20 +0.07 —0.13	+199.0 + 5.2 — 8.4	8.23398 —342 — 92
3.5	—6.13 —0.12 —0.19	+204.2 — 3.4 — 8.6	8.23056 —421 — 79
4.5	—6.25 —0.27 —0.15	+200.8 —11.7 — 8.3	8.22635 —476 — 55
5.5	—6.52 —0.35 —0.08	+189.1 —19.3 — 7.6	8.22159 —500 — 24
6.5	—6.87 —0.31 +0.04	+169.8 —25.6 — 6.3	8.21659 —489 + 11
7.5	—7.18 —0.14 +0.17	+144.2 —30.3 — 4.7	8.21170 —440 + 49
8.5	—7.32 +0.18 +0.32	+113.9 —33.0 — 2.7	8.20730 —358 + 82
9.5	—7.14 +0.57 +0.39	+ 80.9 —33.2 — 0.2	8.20372 —249 +109
10.5	—6.57 +1.00 +0.43	+ 47.7 —31.1 + 2.1	8.20123 —121 +128
11.5	—5.57 +1.35 +0.35	+ 16.6 —26.6 + 4.5	8.20002 + 17 +138
12.5	—4.22	— 10.0	8.20019

Mittlere Zeit Greenwich	$\alpha_a - \alpha_k$	$\delta_a - \delta_k$	$\log \sin p_k$
1920			
März 26.5	-8.16	+134.5	8.23807
27.5	-7.95	+163.2	8.23592
28.5	-7.44	+185.4	8.23336
29.5	-6.86	+199.4	8.23046
30.5	-6.42	+205.0	8.22726
31.5	-6.20	+202.2	8.22377
April 1.5	-6.23	+191.5	8.22003
2.5	-6.45	+173.7	8.21613
3.5	-6.75	+149.7	8.21218
4.5	-6.98	+120.6	8.20839
5.5	-6.98	+88.3	8.20499
6.5	-6.61	+54.9	8.20221
7.5	-5.80	+22.9	8.20030
8.5	-4.56	-5.3	8.19946
9.5	-3.01	-27.7	8.19987
10.5	-1.33	-43.0	8.20161
11.5	+0.25	-51.2	8.20470
April 25.5	-8.35	+204.3	8.23181
26.5	-7.73	+211.7	8.22723
27.5	-7.28	+210.0	8.22276
28.5	-7.04	+200.1	8.21849
29.5	-7.01	+182.8	8.21450
30.5	-7.13	+159.2	8.21082
Mai 1.5	-7.27	+130.7	8.20746
2.5	-7.28	+98.6	8.20447
3.5	-7.02	+64.9	8.20196
4.5	-6.36	+31.9	8.20003
5.5	-5.26	+2.0	8.19883
6.5	-3.78	-22.6	8.19850
7.5	-2.08	-40.4	8.19921
8.5	-0.36	-50.5	8.20108
9.5	+1.20	-53.4	8.20419
10.5	+2.41	-50.0	8.20853
11.5	+3.16	-41.8	8.21400
Mai 25.5	-8.30	+210.7	8.22101
26.5	-8.19	+194.6	8.21571
27.5	-8.20	+171.6	8.21107
28.5	-8.25	+143.1	8.20713
29.5	-8.21	+110.9	8.20390
30.5	-7.95	+76.7	8.20136
31.5	-7.35	+42.5	8.19949
Juni 1.5	-6.36	+10.8	8.19828

Mittlere Zeit Greenwich	$\alpha_{\text{c}} - \alpha_k$	$\delta_{\text{c}} - \delta_k$	$\log \sin p_k$
<b>1920</b>			
<b>Juni</b> 1.5	— 6.36 +1.38 +0.39	+ 10.8 —26.8 +4.9	8.19828 — 50 + 71
2.5	— 4.98 +1.65 +0.27	— 16.0 —20.4 +6.4	8.19778 + 25 + 75
3.5	— 3.33 +1.74 +0.09	— 36.4 —12.8 +7.6	8.19803 +109 + 84
4.5	— 1.59 +1.67 —0.07	— 49.2 — 5.1 +7.7	8.19912 +202 + 93
5.5	+ 0.08 +1.41 —0.26	— 54.3 + 1.9 +7.0	8.20114 +303 +101
6.5	+ 1.49 +1.06 —0.35	— 52.4 + 7.6 +5.7	8.20417 +409 +106
7.5	+ 2.55 +0.62 —0.44	— 44.8 +11.8 +4.2	8.20826 +511 +102
8.5	+ 3.17 +0.13 —0.49	— 33.0 +14.6 +2.8	8.21337 +604 + 93
9.5	+ 3.30	— 18.4	8.21941
<b>Juni</b> 23.5	— 9.25 —0.12 +0.12	+182.8 —27.7 —4.4	8.21520 —534 + 98
24.5	— 9.37 0.00 +0.21	+155.1 —32.1 —2.7	8.20986 —436 +101
25.5	— 9.37 +0.21 +0.21	+123.0 —34.8 —0.3	8.20550 —335 + 98
26.5	— 9.16 +0.54 +0.33	+ 88.2 —35.1 +1.9	8.20215 —237 + 92
27.5	— 8.62 +0.93 +0.39	+ 53.1 —33.2 +4.1	8.19978 —145 + 84
28.5	— 7.69 +1.31 +0.38	+ 19.9 —29.1 +6.3	8.19833 — 61 + 77
29.5	— 6.38 +1.58 +0.27	— 9.2 —22.8 +7.3	8.19772 + 16 + 72
30.5	— 4.80 +1.72 +0.14	— 32.0 —15.5 +7.6	8.19788 + 88 + 70
<b>Juli</b> 1.5	— 3.08 +1.67 —0.05	— 47.5 — 7.9 +7.5	8.19876 +158 + 70
2.5	— 1.41 +1.47 —0.20	— 55.4 — 0.4 +6.3	8.20034 +228 + 73
3.5	+ 0.06 +1.17 —0.30	— 55.8 + 5.9 +5.0	8.20262 +301 + 76
4.5	+ 1.23 +0.79 —0.41	— 49.9 +10.9 +3.7	8.20563 +377 + 77
5.5	+ 2.02 +0.38 —0.40	— 39.0 +14.6 +2.6	8.20940 +454 + 73
6.5	+ 2.40 —0.02 —0.41	— 24.4 +17.2 +1.5	8.21394 +527 + 61
7.5	+ 2.38 —0.43 —0.39	— 7.2 +18.7 +1.2	8.21921 +588 + 36
8.5	+ 1.95 —0.82 —0.39	+ 11.5 +19.9	8.22509 +624
9.5	+ 1.13	+ 31.4	8.23133
<b>Juli</b> 22.5	—10.14 +0.03 +0.37	+132.8 —34.7 —1.2	8.21011 —469 +118
23.5	—10.11 +0.40 +0.42	+ 98.1 —35.9 +1.4	8.20542 —351 +122
24.5	— 9.71 +0.82 +0.41	+ 62.2 —34.5 +3.6	8.20191 —229 +115
25.5	— 8.89 +1.23 +0.31	+ 27.7 —30.9 +5.8	8.19962 —114 +104
26.5	— 7.66 +1.54 +0.16	— 3.2 —25.1 +7.2	8.19848 — 10 + 92
27.5	— 6.12 +1.70 —0.04	— 28.3 —17.9 +7.6	8.19838 + 82 + 77
28.5	— 4.42 +1.66 —0.18	— 46.2 —10.3 +7.4	8.19920 +159 + 64
29.5	— 2.76 +1.48 —0.32	— 56.5 — 2.9 +6.7	8.20079 +223 + 54
30.5	— 1.28 +1.16 —0.37	— 59.4 + 3.8 +5.4	8.20302 +277 + 45
31.5	— 0.12 +0.79 —0.38	— 55.6 + 9.2 +4.4	8.20579 +322 + 41
<b>Aug.</b> 1.5	+ 0.67 +0.41 —0.37	— 46.4 +13.6 +3.2	8.20901 +363 + 38
2.5	+ 1.08 +0.04 —0.34	— 32.8 +16.8 +2.4	8.21264 +401 + 36
3.5	+ 1.12 —0.30 —0.28	— 16.0 +19.2 +1.7	8.21665 +437 + 31
4.5	+ 0.82 —0.58 —0.21	+ 3.2 +20.9 +1.6	8.22102 +468 + 18
5.5	+ 0.24 —0.79 —0.13	+ 24.1 +22.5 +1.3	8.22570 +486 — 1
6.5	— 0.55 —0.92	+ 46.6 +23.8	8.23056 +485
7.5	— 1.47	+ 70.4	8.23541

Mittlere Zeit Greenwich	$\alpha_c - \alpha_k$	$\delta_c - \delta_k$	$\log \sin p_k$
1920			
Aug. 21.5	-9.60 +1.08	+ 34.6 -32.4	8.20234 -219
22.5	-8.52 +1.48 +0.40	+ 2.2 -27.1 +5.3	8.20015 - 87 +132
23.5	-7.04 +1.69 +0.21	- 24.9 -20.1 +7.0	8.19928 + 38 +125
24.5	-5.35 +1.70 +0.01	- 45.0 -12.4 +7.7	8.19966 +148 +110
25.5	-3.65 +1.51 -0.19	- 57.4 - 4.7 +7.7	8.20114 +239 + 91
26.5	-2.14 +1.21 -0.30	- 62.1 + 2.0 +6.7	8.20353 +308 + 69
27.5	-0.93 +0.81 -0.40	- 60.1 + 7.7 +5.7	8.20661 +354 + 46
28.5	-0.12 +0.34 -0.47	- 52.4 +12.2 +4.5	8.21015 +380 + 26
29.5	+0.22 -0.06 -0.40	- 40.2 +15.6 +3.4	8.21395 +389 + 9
30.5	+0.16 -0.43 -0.37	- 24.6 +18.4 +2.8	8.21784 +385 - 4
31.5	-0.27 -0.69 -0.26	- 6.2 +20.8 +2.4	8.22169 +370 - 15
Sept. 1.5	-0.96 -0.86 -0.17	+ 14.6 +23.0 +2.2	8.22539 +351 - 19
2.5	-1.82 -0.89 -0.03	+ 37.6 +25.1 +2.1	8.22890 +330 - 21
3.5	-2.71 -0.78 +0.11	+ 62.7 +26.4 +1.3	8.23220 +303 - 27
4.5	-3.49 -0.58 +0.20	+ 89.1 +26.7 +0.3	8.23523 +264 - 39
5.5	-4.07 -0.35 +0.23	+115.8 +25.6 -1.1	8.23787 +213 - 51
6.5	-4.42	+141.4	8.24000
Sept. 19.5	-7.53 +1.67	- 20.7 -22.1	8.20048 - 62
20.5	-5.86 +1.77 +0.10	- 42.8 -14.3 +7.8	8.19986 + 76 +138
21.5	-4.09 +1.67 -0.10	- 57.1 - 6.4 +7.9	8.20062 +206 +130
22.5	-2.42 +1.36 -0.31	- 63.5 + 0.9 +7.3	8.20268 +317 +111
23.5	-1.06 +0.93 -0.43	- 62.6 + 6.8 +5.9	8.20585 +402 + 85
24.5	-0.13 +0.44 -0.49	- 55.8 +11.3 +4.5	8.20987 +458 + 56
25.5	+0.31 -0.07 -0.51	- 44.5 +14.7 +3.4	8.21445 +480 + 22
26.5	+0.24 -0.54 -0.47	- 29.8 +17.3 +2.6	8.21925 +468 - 12
27.5	-0.30 -0.91 -0.37	- 12.5 +19.7 +2.4	8.22393 +426 - 42
28.5	-1.21 -1.17 -0.26	+ 7.2 +22.2 +2.5	8.22819 +363 - 63
29.5	-2.38 -1.24 -0.07	+ 29.4 +24.9 +2.7	8.23182 +284 - 79
30.5	-3.62 -1.10 +0.14	+ 54.3 +27.3 +2.4	8.23466 +203 - 81
Okt. 1.5	-4.72 -0.78 +0.32	+ 81.6 +28.5 +1.2	8.23669 +126 - 77
2.5	-5.50 -0.38 +0.40	+110.1 +27.7 -0.8	8.23795 + 57 - 69
3.5	-5.88 -0.02 +0.36	+137.8 +24.5 -3.2	8.23852 - 7 - 64
4.5	-5.90 +0.17 +0.19	+162.3 +19.3 -5.2	8.23845 - 64 - 57
5.5	-5.73	+181.6	8.23781
Okt. 19.5	-2.62 +1.59	- 63.0 - 0.4	8.20063 +241
20.5	-1.03 +1.23 -0.36	- 63.4 + 6.3 +6.7	8.20304 +369 +128
21.5	+0.20 +0.75 -0.48	- 57.1 +11.4 +5.1	8.20673 +478 +109
22.5	+0.95 +0.21 -0.54	- 45.7 +14.9 +3.5	8.21151 +557 + 79
23.5	+1.16 -0.33 -0.54	- 30.8 +17.1 +2.2	8.21708 +597 + 40
24.5	+0.83 -0.85 -0.52	- 13.7 +18.9 +1.8	8.22305 +589 - 8
25.5	-0.02 -1.28 -0.43	+ 5.2 +20.6 +1.7	8.22894 +534 - 55
26.5	-1.30 -1.55 -0.27	+ 25.8 +23.0 +2.4	8.23428 +436 - 98
27.5	-2.85 -0.05	+ 48.8 +2.9	8.23864 -131

Mittlere Zeit Greenwich	$\alpha_c - \alpha_k$	$\delta_c - \delta_k$	$\log \sin p_k$
1920			
Okt. 27.5	- 2.85    -1.60    -0.05	+ 48.8    +25.9    +2.9	8.23864    +305    -131
28.5	- 4.45    -1.38    +0.22	+ 74.7    +28.5    +2.6	8.24169    +157    -148
29.5	- 5.83    -0.94    +0.44	+ 103.2    +29.3    +0.8	8.24326    + 13    -144
30.5	- 6.77    -0.43    +0.51	+ 132.5    +27.4    -1.9	8.24339    -113    -126
31.5	- 7.20    -0.02    +0.41	+ 159.9    +22.6    -4.6	8.24226    -213    -100
Nov. 1.5	- 7.22    +0.19    +0.21	+ 182.5    +15.4    -7.2	8.24013    -285    - 72
2.5	- 7.03    +0.17    -0.02	+ 197.9    + 7.2    -8.2	8.23728    -330    - 45
3.5	- 6.86    +0.02    -0.15	+ 205.1    - 1.0    -8.2	8.23398    -355    - 25
4.5	- 6.84	+ 204.1	8.23043
Nov. 17.5	+ 0.11    +1.11    -0.46	- 57.7    +11.3    +4.2	8.20228    +381    +126
18.5	+ 1.22    +0.65    -0.49	- 46.4    +15.5    +2.7	8.20609    +507    +102
19.5	+ 1.87    +0.16    -0.52	- 30.9    +18.2    +1.5	8.21116    +609    + 68
20.5	+ 2.03    -0.36    -0.52	- 12.7    +19.7    +0.7	8.21725    +677    + 22
21.5	+ 1.67    -0.88    -0.44	+ 7.0    +20.4    +0.9	8.22402    +699    - 37
22.5	+ 0.79    -1.32    -0.32	+ 27.4    +21.3    +1.7	8.23101    +662    - 96
23.5	- 0.53    -1.64    -0.11	+ 48.7    +23.0    +2.4	8.23763    +566    -151
24.5	- 2.17    -1.75    +0.17	+ 71.7    +25.4    +2.1	8.24329    +415    -193
25.5	- 3.92    -1.58    +0.38	+ 97.1    +27.5    +0.6	8.24744    +222    -206
26.5	- 5.50    -1.20    +0.47	+ 124.6    +28.1    -2.7	8.24966    + 16    -196
27.5	- 6.70    -0.73    +0.38	+ 152.7    +25.4    -5.8	8.24982    -180    -162
28.5	- 7.43    -0.35    +0.19	+ 178.1    +19.6    -8.1	8.24802    -342    -115
29.5	- 7.78    -0.16    +0.02	+ 197.7    +11.5    -9.2	8.24460    -457    - 65
30.5	- 7.94    -0.14    -0.09	+ 209.2    + 2.3    -9.0	8.24003    -522    - 23
Dez. 1.5	- 8.08    -0.23    -0.12	+ 211.5    - 6.7    -8.3	8.23481    -545    + 13
2.5	- 8.31    -0.35	+ 204.8    -15.0	8.22936    -532
3.5	- 8.66	+ 189.8	8.22404
Dez. 17.5	+ 2.17    +0.17    -0.41	- 14.3    +21.0    +0.9	8.20984    +588    + 91
18.5	+ 2.34    -0.24    -0.41	+ 6.7    +21.9    +0.1	8.21572    +679    + 52
19.5	+ 2.10    -0.65    -0.38	+ 28.6    +22.0    0.0	8.22251    +731    + 3
20.5	+ 1.45    -1.03    -0.29	+ 50.6    +22.3    +0.3	8.22982    +734    - 60
21.5	+ 0.42    -1.32    -0.19	+ 72.6    +23.4    +1.1	8.23716    +674    -129
22.5	- 0.90    -1.51    +0.01	+ 94.9    +24.3    +0.9	8.24390    +545    -189
23.5	- 2.41    -1.50    +0.16	+ 118.3    +24.2    -0.1	8.24935    +356    -230
24.5	- 3.91    -1.34    +0.24	+ 142.6    +21.4    -2.8	8.25291    +126    -243
25.5	- 5.25    -1.10    +0.22	+ 166.8    +15.6    -5.8	8.25417    -117    -223
26.5	- 6.35    -0.88    +0.11	+ 188.2    + 7.5    -8.1	8.25300    -340    -175
27.5	- 7.23    -0.77    +0.05	+ 203.8    - 2.0    -9.5	8.24960    -515    -115
28.5	- 8.00    -0.72    +0.02	+ 211.3    -11.4    -9.4	8.24445    -630    - 52
29.5	- 8.72    -0.68	+ 209.3    -19.8	8.23815    -682    + 6
30.5	- 9.42	+ 197.9	8.23133
31.5	- 10.10	+ 178.1	8.22457

Tag	O <sup>h</sup> mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension			Scheinbare Deklination			
1920							
Jan. 0	17 <sup>h</sup> 12 <sup>m</sup> 34.89 <sup>s</sup>	5 <sup>m</sup> 50.75 <sup>s</sup>	−22° 10′ 37.6″	14 26.4	0.07 8574	5484	22 <sup>h</sup> 38.9 <sup>m</sup>
1	17 18 25.64	5 56.39	22 25 4.0	13 36.9	0.08 4058	5198	22 40.9
2	17 24 22.03	6 1.59	22 38 40.9	12 43.9	0.08 9256	4925	22 43.0
3	17 30 23.62	6 6.39	22 51 24.8	11 48.0	0.09 4181	4662	22 45.2
4	17 36 30.01	6 10.85	23 3 12.8	10 48.9	0.09 8843	4412	22 47.4
5	17 42 40.86	6 14.98	23 14 1.7	9 47.2	0.10 3255	4171	22 49.7
6	17 48 55.84	6 18.83	−23 23 48.9	8 43.2	0.10 7426	3939	22 52.1
7	17 55 14.67	6 22.41	23 32 32.1	7 37.1	0.11 1365	3717	22 54.5
8	18 1 37.08	6 25.74	23 40 9.2	6 28.8	0.11 5082	3502	22 57.0
9	18 8 2.82	6 28.86	23 46 38.0	5 18.8	0.11 8584	3295	22 59.5
10	18 14 31.68	6 31.77	23 51 56.8	4 7.1	0.12 1879	3094	23 2.1
11	18 21 3.45	6 34.48	23 56 3.9	2 53.9	0.12 4973	2901	23 4.8
12	18 27 37.93	6 37.01	−23 58 57.8	1 39.1	0.12 7874	2712	23 7.4
13	18 34 14.94	6 39.36	24 0 36.9	0 23.0	0.13 0586	2529	23 10.2
14	18 40 54.30	6 41.55	24 0 59.9	0 54.4	0.13 3115	2350	23 12.9
15	18 47 35.85	6 43.60	24 0 5.5	2 12.9	0.13 5465	2175	23 15.7
16	18 54 19.45	6 45.49	23 57 52.6	3 32.5	0.13 7640	2005	23 18.5
17	19 1 4.94	6 47.25	23 54 20.1	4 53.3	0.13 9645	1835	23 21.4
18	19 7 52.19	6 48.88	−23 49 26.8	6 14.9	0.14 1480	1670	23 24.3
19	19 14 41.07	6 50.38	23 43 11.9	7 37.5	0.14 3150	1506	23 27.2
20	19 21 31.45	6 51.75	23 35 34.4	9 1.0	0.14 4656	1344	23 30.1
21	19 28 23.20	6 53.02	23 26 33.4	10 25.3	0.14 6000	1181	23 33.0
22	19 35 16.22	6 54.18	23 16 8.1	11 50.4	0.14 7181	1021	23 36.0
23	19 42 10.40	6 55.23	23 4 17.7	13 16.1	0.14 8202	860	23 39.0
24	19 49 5.63	6 56.18	−22 51 1.6	14 42.6	0.14 9062	697	23 42.0
25	19 56 1.81	6 57.04	22 36 19.0	16 9.7	0.14 9759	535	23 45.0
26	20 2 58.85	6 57.80	22 20 9.3	17 37.4	0.15 0294	369	23 48.0
27	20 9 56.65	6 58.48	22 2 31.9	19 5.6	0.15 0663	202	23 51.1
28	20 16 55.13	6 59.07	21 43 26.3	20 34.3	0.15 0865	32	23 54.1
29	20 23 54.20	6 59.58	21 22 52.0	22 3.5	0.15 0897	143	23 57.2
30	20 30 53.78	7 0.03	−21 0 48.5	23 33.0	0.15 0754	321	—
31	20 37 53.81	7 0.38	20 37 15.5	25 2.8	0.15 0433	505	0 0.2
Febr. 1	20 44 54.19	7 0.65	20 12 12.7	26 32.9	0.14 9928	696	0 3.3
2	20 51 54.84	7 0.86	19 45 39.8	28 3.2	0.14 9232	892	0 6.4
3	20 58 55.70	7 0.98	19 17 36.6	29 33.5	0.14 8340	1098	0 9.4
4	21 5 56.68	7 1.02	18 48 3.1	31 3.7	0.14 7242	1311	0 12.5
5	21 12 57.70	7 0.95	−18 16 59.4	32 33.8	0.14 5931	1536	0 15.6
6	21 19 58.65	7 0.79	17 44 25.6	34 3.3	0.14 4395	1771	0 18.7
7	21 26 59.44	7 0.49	17 10 22.3	35 32.5	0.14 2624	2019	0 21.8
8	21 33 59.93	7 0.07	16 34 49.8	37 0.6	0.14 0605	2280	0 24.8
9	21 41 0.00	6 59.48	15 57 49.2	38 27.7	0.13 8325	2557	0 27.9
10	21 47 59.48		15 19 21.5		0.13 5768		0 31.0



Tag	O <sup>h</sup> mittlere Zeit Greenwich						Obere Kulmination in Green- wich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1920							
Febr. 10	21 <sup>h</sup> 47 <sup>m</sup> 59 <sup>s</sup> .48	6 <sup>m</sup> 58 <sup>s</sup> .70	-15° 19' 21.5"	39' 53.3"	0.13 5768	2849	0 <sup>h</sup> 31.0 <sup>m</sup>
11	21 54 58.18	6 57.68	14 39 28.2	41 17.0	0.13 2919	3161	0 34.0
12	22 1 55.86	6 56.40	13 58 11.2	42 38.4	0.12 9758	3490	0 37.0
13	22 8 52.26	6 54.79	13 15 32.8	43 56.9	0.12 6268	3841	0 40.0
14	22 15 47.05	6 52.81	12 31 35.9	45 11.7	0.12 2427	4212	0 43.0
15	22 22 39.86	6 50.36	11 46 24.2	46 22.3	0.11 8215	4608	0 45.9
16	22 29 30.22	6 47.38	-11 0 1.9	47 27.8	0.11 3607	5027	0 48.8
17	22 36 17.60	6 43.77	10 12 34.1	48 26.7	0.10 8580	5470	0 51.7
18	22 43 1.37	6 39.43	9 24 7.4	49 18.5	0.10 3110	5939	0 54.5
19	22 49 40.80	6 34.22	8 34 48.9	50 1.9	0.09 7171	6430	0 57.2
20	22 56 15.02	6 28.02	7 44 47.0	50 35.1	0.09 0741	6947	0 59.8
21	23 2 43.04	6 20.71	6 54 11.9	50 57.1	0.08 3794	7484	1 2.4
22	23 9 3.75	6 12.13	- 6 3 14.8	51 6.1	0.07 6310	8040	1 4.8
23	23 15 15.88	6 2.13	5 12 8.7	51 0.9	0.06 8270	8609	1 7.0
24	23 21 18.01	5 50.59	4 21 7.8	50 39.5	0.05 9661	9189	1 9.1
25	23 27 8.60	5 37.35	3 30 28.3	50 1.0	0.05 0472	9770	1 11.0
26	23 32 45.95	5 22.32	2 40 27.3	49 3.8	0.04 0702	10348	1 12.7
27	23 38 8.27	5 5.42	1 51 23.5	47 47.0	0.03 0354	10912	1 14.1
28	23 43 13.69	4 46.58	- 1 3 36.5	46 9.8	0.01 9442	11451	1 15.2
29	23 48 0.27	4 25.80	- 0 17 26.7	44 11.6	0.00 7991	11959	1 16.0
März 1	23 52 26.07	4 3.08	+ 0 26 44.9	41 52.4	9.99 6032	12419	1 16.5
2	23 56 29.15	3 38.54	1 8 37.3	39 12.5	9.98 3613	12825	1 16.6
3	0 0 7.69	3 12.28	1 47 49.8	36 12.2	9.97 0788	13163	1 16.3
4	0 3 19.97	2 44.48	2 24 2.0	32 52.5	9.95 7625	13424	1 15.5
5	0 6 4.45	2 15.37	+ 2 56 54.5	29 14.8	9.94 4201	13596	1 14.3
6	0 8 19.82	1 45.23	3 26 9.3	25 20.4	9.93 0605	13670	1 12.6
7	0 10 5.05	1 14.39	3 51 29.7	21 11.1	9.91 6935	13639	* 1 10.4
8	0 11 19.44	0 43.24	4 12 40.8	16 49.3	9.90 3296	13493	1 7.6
9	0 12 2.68	0 12.19	4 29 30.1	12 17.6	9.88 9803	13229	1 4.4
10	0 12 14.87	0 18.30	4 41 47.7	7 38.7	9.87 6574	12839	1 0.6
11	0 11 56.57	0 47.69	+ 4 49 26.4	2 56.5	9.86 3735	12325	0 56.4
12	0 11 8.88	1 15.49	4 52 22.9	1 45.4	9.85 1410	11684	0 51.7
13	0 9 53.39	1 41.14	4 50 37.5	6 22.2	9.83 9726	10923	0 46.5
14	0 8 12.25	2 4.16	4 44 15.3	10 49.3	9.82 8803	10045	0 40.8
15	0 6 8.09	2 24.04	4 33 26.0	15 1.6	9.81 8758	9063	0 34.8
16	0 3 44.05	2 40.37	4 18 24.4	18 54.0	9.80 9695	7991	0 28.5
17	0 1 3.68	2 52.85	+ 3 59 30.4	22 21.8	9.80 1704	6847	0 21.9
18	23 58 10.83	3 1.27	3 37 8.6	25 20.8	9.79 4857	5649	0 15.1
19	23 55 9.56	3 5.51	3 11 47.8	27 47.5	9.78 9208	4422	0 8.2
20	23 52 4.05	3 5.69	2 44 0.3	29 39.7	9.78 4786	3185	0 0.0
21	23 48 58.36	3 1.92	2 14 20.6	30 56.1	9.78 1601	1966	23 47.3
22	23 45 56.44		1 43 24.5		9.77 9635		23 40.4

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich	
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ		
1920					
März 22	23 <sup>h</sup> 45 <sup>m</sup> 56.44 <sup>s</sup> 2 <sup>m</sup> 54.54 <sup>s</sup>	+1° 43' 24.5"	31' 37.3"	9.77 9635 780	23 <sup>h</sup> 40.4 <sup>m</sup>
23	23 43 1.90 2 43.90	1 11 47.2	31 44.2	9.77 8855 351	23 33.8
24	23 40 18.00 2 30.44	0 40 3.0	31 19.4	9.77 9206 1414	23 27.4
25	23 37 47.56 2 14.65	+0 8 43.6	30 25.9	9.78 0620 2396	23 21.2
26	23 35 32.91 1 56.99	-0 21 42.3	29 7.3	9.78 3016 3291	23 15.3
27	23 33 35.92 1 37.94	0 50 49.6	27 27.6	9.78 6307 4093	23 9.8
28	23 31 57.98 1 17.95	-1 18 17.2	25 30.4	9.79 0400 4805	23 4.5
29	23 30 40.03 0 57.41	1 43 47.6	23 19.9	9.79 5205 5424	22 59.6
30	23 29 42.62 0 36.62	2 7 7.5	20 59.2	9.80 0629 5956	22 55.1
31	23 29 6.00 0 15.93	2 28 6.7	18 31.4	9.80 6585 6409	22 50.9
April 1	23 28 50.07 0 4.47	2 46 38.1	15 59.3	9.81 2994 6785	22 47.0
2	23 28 54.54 0 24.39	3 2 37.4	13 24.9	9.81 9779 7092	22 43.4
3	23 29 18.93 0 43.67	-3 16 2.3	10 50.3	9.82 6871 7340	22 40.2
4	23 30 2.60 1 2.24	3 26 52.6	8 16.5	9.83 4211 7533	22 37.3
5	23 31 4.84 1 20.01	3 35 9.1	5 45.1	9.84 1744 7678	22 34.7
6	23 32 24.85 1 36.96	3 40 54.2	3 16.6	9.84 9422 7782	22 32.3
7	23 34 1.81 1 53.07	3 44 10.8	0 51.8	9.85 7204 7850	22 30.3
8	23 35 54.88 2 8.34	3 45 2.6	1 29.1	9.86 5054 7889	22 28.5
9	23 38 3.22 2 22.80	-3 43 33.5	3 45.6	9.87 2943 7900	22 26.9
10	23 40 26.02 2 36.46	3 39 47.9	5 57.7	9.88 0843 7892	22 25.5
11	23 43 2.48 2 49.39	3 33 50.2	8 5.3	9.88 8735 7863	22 24.4
12	23 45 51.87 3 1.59	3 25 44.9	10 8.3	9.89 6598 7822	22 23.5
13	23 48 53.46 3 13.12	3 15 36.6	12 7.1	9.90 4420 7766	22 22.7
14	23 52 6.58 3 24.04	3 3 29.5	14 1.5	9.91 2186 7701	22 22.2
15	23 55 30.62 3 34.40	-2 49 28.0	15 51.7	9.91 9887 7629	22 21.8
16	23 59 5.02 3 44.22	2 33 36.3	17 37.8	9.92 7516 7548	22 21.6
17	0 2 49.24 3 53.58	2 15 58.5	19 20.1	9.93 5064 7464	22 21.5
18	0 6 42.82 4 2.50	1 56 38.4	20 58.6	9.94 2528 7374	22 21.6
19	0 10 45.32 4 11.05	1 35 39.8	22 33.6	9.94 9902 7282	22 21.8
20	0 14 56.37 4 19.26	1 13 6.2	24 5.0	9.95 7184 7187	22 22.2
21	0 19 15.63 4 27.18	-0 49 1.2	25 33.2	9.96 4371 7091	22 22.7
22	0 23 42.81 4 34.87	-0 23 28.0	26 58.2	9.97 1462 6993	22 23.3
23	0 28 17.68 4 42.33	+0 3 30.2	28 20.0	9.97 8455 6893	22 24.1
24	0 33 0.01 4 49.64	0 31 50.2	29 39.0	9.98 5348 6793	22 25.0
25	0 37 49.65 4 56.83	1 1 29.2	30 55.1	9.99 2141 6691	22 26.0
26	0 42 46.48 5 3.92	1 32 24.3	32 8.4	9.99 8832 6587	22 27.1
27	0 47 50.40 5 10.96	+2 4 32.7	33 18.7	0.00 5419 6482	22 28.4
28	0 53 1.36 5 17.99	2 37 51.4	34 26.5	0.01 1901 6376	22 29.7
29	0 58 19.35 5 25.02	3 12 17.9	35 31.5	0.01 8277 6266	22 31.1
30	1 3 44.37 5 32.10	3 47 49.4	36 33.6	0.02 4543 6154	22 32.7
Mai 1	1 9 16.47 5 39.26	4 24 23.0	37 33.0	0.03 0697 6038	22 34.4
2	1 14 55.73	5 1 56.0		0.03 6735	22 36.3

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich	
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ		
1920					
Mai	2	<sup>h</sup> 14 <sup>m</sup> 55.73 <sup>s</sup> 5 <sup>m</sup> 46.52	+ 5 <sup>°</sup> 1' 56.0" 38' 29.6"	0.03 6735 5919	<sup>h</sup> 22 <sup>m</sup> 36.3
	3	1 20 42.25 5 53.91	5 40 25.6 39 23.1	0.04 2654 5795	22 38.2
	4	1 26 36.16 6 1.47	6 19 48.7 40 13.7	0.04 8449 5665	22 40.3
	5	1 32 37.63 6 9.20	7 0 2.4 41 0.8	0.05 4114 5528	22 42.5
	6	1 38 46.83 6 17.15	7 41 3.2 41 44.5	0.05 9642 5385	22 44.8
	7	1 45 3.98 6 25.31	8 22 47.7 42 24.7	0.06 5027 5231	22 47.4
	8	1 51 29.29 6 33.72	+ 9 5 12.4 43 0.7	0.07 0258 5070	22 49.9
	9	1 58 3.01 6 42.37	9 48 13.1 43 32.5	0.07 5328 4895	22 52.7
	10	2 4 45.38 6 51.29	10 31 45.6 43 59.5	0.08 0223 4710	22 55.6
	11	2 11 36.67 7 0.47	11 15 45.1 44 21.2	0.08 4933 4510	22 58.7
	12	2 18 37.14 7 9.89	12 0 6.3 44 37.4	0.08 9443 4294	23 1.9
	13	2 25 47.03 7 19.56	12 44 43.7 44 47.1	0.09 3737 4062	23 5.3
	14	2 33 6.59 7 29.43	+ 13 29 30.8 44 50.0	0.09 7799 3812	23 8.8
	15	2 40 36.02 7 39.46	14 14 20.8 44 45.1	0.10 1611 3541	23 12.6
	16	2 48 15.48 7 49.60	14 59 5.9 44 31.9	0.10 5152 3250	23 16.4
	17	2 56 5.08 7 59.77	15 43 37.8 44 9.6	0.10 8402 2936	23 20.5
	18	3 4 4.85 8 9.90	16 27 47.4 43 37.3	0.11 1338 2601	23 24.7
	19	3 12 14.75 8 19.87	17 11 24.7 42 54.3	0.11 3939 2242	23 29.1
	20	3 20 34.62 8 29.55	+ 17 54 19.0 42 0.0	0.11 6181 1861	23 33.7
	21	3 29 4.17 8 38.82	18 36 19.0 40 53.9	0.11 8042 1457	23 38.4
	22	3 37 42.99 8 47.51	19 17 12.9 39 35.5	0.11 9499 1035	23 43.3
	23	3 46 30.50 8 55.49	19 56 48.4 38 4.9	0.12 0534 592	23 48.3
	24	3 55 25.99 9 2.57	20 34 53.3 36 21.8	0.12 1126 136	23 53.4
	25	4 4 28.56 9 8.62	21 11 15.1 34 26.7	0.12 1262 332	23 58.6
	26	4 13 37.18 9 13.51	+ 21 45 41.8 32 20.6	0.12 0930 808	—
	27	4 22 50.69 9 17.10	22 18 2.4 30 4.1	0.12 0122 1285	0 3.9
	28	4 32 7.79 9 19.32	22 48 6.5 27 38.8	0.11 8837 1762	0 9.3
	29	4 41 27.11 9 20.12	23 15 45.3 25 6.0	0.11 7075 2232	0 14.7
	30	4 50 47.23 9 19.46	23 40 51.3 22 27.4	0.11 4843 2691	0 20.1
	31	5 0 6.69 9 17.38	24 3 18.7 19 44.7	0.11 2152 3136	0 25.5
	Juni	1	5 9 24.07 9 13.90	+ 24 23 3.4 16 59.9	0.10 9016 3562
2		5 18 37.97 9 9.11	24 40 3.3 14 14.2	0.10 5454 3968	0 36.2
3		5 27 47.08 9 3.11	24 54 17.5 11 29.7	0.10 1486 4352	0 41.4
4		5 36 50.19 8 55.96	25 5 47.2 8 47.5	0.09 7134 4712	0 46.5
5		5 45 46.15 8 47.82	25 14 34.7 6 8.9	0.09 2422 5048	0 51.5
6		5 54 33.97 8 38.80	25 20 43.6 3 35.1	0.08 7374 5361	0 56.4
7		6 3 12.77 8 29.00	+ 25 24 18.7 1 6.6	0.08 2013 5650	I 1.1
8		6 11 41.77 8 18.53	25 25 25.3 1 15.6	0.07 6363 5916	I 5.6
9		6 20 0.30 8 7.51	25 24 9.7 3 31.3	0.07 0447 6162	I 10.0
10		6 28 7.81 7 56.00	25 20 38.4 5 39.9	0.06 4285 6388	I 14.2
11		6 36 3.81 7 44.11	25 14 58.5 7 41.3	0.05 7897 6596	I 18.2
12		6 43 47.92	25 7 17.2	0.05 1301	I 22.0

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
Juni 12	6 <sup>h</sup> 43 <sup>m</sup> 47.92 <sup>s</sup> 7 <sup>m</sup> 31.88 <sup>s</sup>	+25 <sup>m</sup> 7 <sup>s</sup> 17.2 <sup>s</sup> 9 <sup>m</sup> 35.4 <sup>s</sup>	0.05 1301 6786	I 22.0
13	6 51 19.80 7 19.39	24 57 41.8 11 22.2	0.04 4515 6961	I 25.6
14	6 58 39.19 7 6.67	24 46 19.6 13 1.6	0.03 7554 7121	I 28.9
15	7 5 45.86 6 53.78	24 33 18.0 14 33.7	0.03 0433 7270	I 32.1
16	7 12 39.64 6 40.71	24 18 44.3 15 58.5	0.02 3163 7405	I 35.0
17	7 19 20.35 6 27.53	24 2 45.8 17 16.5	0.01 5758 7531	I 37.8
18	7 25 47.88 6 14.22	+23 45 29.3 18 27.4	0.00 8227 7646	I 40.3
19	7 32 2.10 6 0.79	23 27 1.9 19 31.6	0.00 0581 7753	I 42.6
20	7 38 2.89 5 47.26	23 7 30.3 20 28.9	9.99 2828 7850	I 44.6
21	7 43 50.15 5 33.61	22 47 1.4 21 19.8	9.98 4978 7940	I 46.4
22	7 49 23.76 5 19.84	22 25 41.6 22 4.2	9.97 7038 8022	I 48.0
23	7 54 43.60 5 5.95	22 3 37.4 22 42.4	9.96 9016 8096	I 49.4
24	7 59 49.55 4 51.92	+21 40 55.0 23 14.2	9.96 0920 8162	I 50.6
25	8 4 41.47 4 37.72	21 17 40.8 23 39.7	9.95 2758 8221	I 51.5
26	8 9 19.19 4 23.34	20 54 1.1 23 59.3	9.94 4537 8273	I 52.1
27	8 13 42.53 4 8.78	20 30 1.8 24 12.7	9.93 6264 8314	I 52.6
28	8 17 51.31 3 53.98	20 5 49.1 24 19.8	9.92 7950 8348	I 52.7
29	8 21 45.29 3 38.94	19 41 29.3 24 20.8	9.91 9602 8371	I 52.7
30	8 25 24.23 3 23.64	+19 17 8.5 24 15.8	9.91 1231 8383	I 52.4
Juli 1	8 28 47.87 3 8.05	18 52 52.7 24 4.5	9.90 2848 8384	I 51.8
2	8 31 55.92 2 52.14	18 28 48.2 23 46.6	9.89 4464 8369	I 51.0
3	8 34 48.06 2 35.91	18 5 1.6 23 22.6	9.88 6095 8339	I 49.9
4	8 37 23.97 2 19.33	17 41 39.0 22 52.0	9.87 7756 8293	I 48.5
5	8 39 43.30 2 2.40	17 18 47.0 22 14.8	9.86 9463 8225	I 46.9
6	8 41 45.70 1 45.12	+16 56 32.2 21 31.0	9.86 1238 8135	I 45.0
7	8 43 30.82 1 27.48	16 35 1.2 20 40.4	9.85 3103 8020	I 42.7
8	8 44 58.30 1 9.53	16 14 20.8 19 42.8	9.84 5083 7877	I 40.2
9	8 46 7.83 0 51.27	15 54 38.0 18 38.4	9.83 7206 7700	I 37.4
10	8 46 59.10 0 32.74	15 35 59.6 17 27.2	9.82 9506 7489	I 34.3
11	8 47 31.84 0 14.04	15 18 32.4 16 9.0	9.82 2017 7239	I 30.9
12	8 47 45.88 0 4.78	+15 2 23.4 14 44.1	9.81 4778 6944	I 27.2
13	8 47 41.10 0 23.59	14 47 39.3 13 12.8	9.80 7834 6604	I 23.2
14	8 47 17.51 0 42.27	14 34 26.5 11 35.2	9.80 1230 6210	I 18.8
15	8 46 35.24 1 0.65	14 22 51.3 9 51.9	9.79 5020 5764	I 14.2
16	8 45 34.59 1 18.53	14 12 59.4 8 3.6	9.78 9256 5259	I 9.2
17	8 44 16.06 1 35.68	14 4 55.8 6 11.0	9.78 3997 4695	I 4.0
18	8 42 40.38 1 51.90	+13 58 44.8 4 15.0	9.77 9302 4069	0 58.5
19	8 40 48.48 2 6.86	13 54 29.8 2 16.8	9.77 5233 3381	0 52.7
20	8 38 41.62 2 20.28	13 52 13.0 0 17.7	9.77 1852 2634	0 46.6
21	8 36 21.34 2 31.89	13 51 55.3 1 41.0	9.76 9218 1829	0 40.4
22	8 33 49.45 2 41.39	13 53 36.3 3 37.5	9.76 7389 972	0 33.9
23	8 31 8.06	13 57 13.8	9.76 6417	0 27.3

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich	
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ		
1920					
Juli	23	8 <sup>h</sup> 31 <sup>m</sup> 8.06 2 <sup>m</sup> 48.48	+13 <sup>m</sup> 57' 13.8 5 30.4	9.76 6417 68	0 <sup>h</sup> 27.3
	24	8 28 19.58 2 52.96	14 2 44.2 7 18.2	9.76 6349 870	0 20.6
	25	8 25 26.62 2 54.58	14 10 2.4 8 59.1	9.76 7219 1838	0 13.8
	26	8 22 32.04 2 53.21	14 19 1.5 10 31.8	9.76 9057 2820	0 7.0
	27	8 19 38.83 2 48.78	14 29 33.3 11 55.0	9.77 1877 3808	{ 0 0.2 23 53.5
	28	8 16 50.05 2 41.24	14 41 28.3 13 7.8	9.77 5685 4785	23 46.9
	29	8 14 8.81 2 30.66	+14 54 36.1 14 9.0	9.78 0470 5743	23 40.4
	30	8 11 38.15 2 17.14	15 8 45.1 14 58.0	9.78 6213 6666	23 34.2
	31	8 9 21.01 2 0.87	15 23 43.1 15 34.6	9.79 2879 7546	23 28.3
	Aug.	1	8 7 20.14 1 42.05	15 39 17.7 15 58.7	9.80 0425 8373
2		8 5 38.09 1 20.96	15 55 16.4 16 9.8	9.80 8798 9139	23 17.4
3		8 4 17.13 0 57.85	16 11 26.2 16 8.2	9.81 7937 9836	23 12.5
4		8 3 19.28 0 33.06	+16 27 34.4 15 54.4	9.82 7773 10461	23 8.0
5		8 2 46.22 0 6.87	16 43 28.8 15 27.8	9.83 8234 11012	23 3.9
6		8 2 39.35 0 20.44	16 58 56.6 14 49.1	9.84 9246 11486	23 0.3
7		8 2 59.79 0 48.57	17 13 45.7 13 58.7	9.86 0732 11881	22 57.2
8		8 3 48.36 1 17.21	17 27 44.4 12 56.4	9.87 2613 12201	22 54.5
9		8 5 5.57 1 46.16	17 40 40.8 11 42.6	9.88 4814 12443	22 52.3
10		8 6 51.73 2 15.19	+17 52 23.4 10 17.6	9.89 7257 12612	22 50.6
11	8 9 6.92 2 44.00	18 2 41.0 8 41.2	9.90 9869 12710	22 49.4	
12	8 11 50.92 3 12.44	18 11 22.2 6 53.9	9.92 2579 12737	22 48.6	
13	8 15 3.36 3 40.28	18 18 16.1 4 56.1	9.93 5316 12695	22 48.3	
14	8 18 43.64 4 7.31	18 23 12.2 2 48.1	9.94 8011 12590	22 48.5	
15	8 22 50.95 4 33.34	18 26 0.3 0 30.4	9.96 0601 12422	22 49.1	
16	8 27 24.29 4 58.19	+18 26 30.7 1 56.0	9.97 3023 12193	22 50.1	
17	8 32 22.48 5 21.64	18 24 34.7 4 30.4	9.98 5216 11911	22 51.5	
18	8 37 44.12 5 43.52	18 20 4.3 7 11.3	9.99 7127 11573	22 53.2	
19	8 43 27.64 6 3.68	18 12 53.0 9 57.6	0.00 8700 11190	22 55.3	
20	8 49 31.32 6 21.94	18 2 55.4 12 47.4	0.01 9890 10762	22 57.8	
21	8 55 53.26 6 38.21	17 50 8.0 15 38.9	0.03 0652 10296	23 0.5	
22	9 2 31.47 6 52.38	+17 34 29.1 18 30.2	0.04 0948 9800	23 3.4	
23	9 9 23.85 7 4.43	17 15 58.9 21 19.5	0.05 0748 9279	23 6.5	
24	9 16 28.28 7 14.35	16 54 39.4 24 4.4	0.06 0027 8738	23 9.8	
25	9 23 42.63 7 22.18	16 30 35.0 26 43.4	0.06 8765 8187	23 13.2	
26	9 31 4.81 7 28.02	16 3 51.6 29 15.1	0.07 6952 7631	23 16.8	
27	9 38 32.83 7 31.97	15 34 36.5 31 37.7	0.08 4583 7078	23 20.4	
28	9 46 4.80 7 34.21	+15 2 58.8 33 50.6	0.09 1661 6531	23 24.0	
29	9 53 39.01 7 34.93	14 29 8.2 35 52.8	0.09 8192 5997	23 27.7	
30	10 1 13.94 7 34.27	13 53 15.4 37 43.9	0.10 4189 5479	23 31.3	
31	10 8 48.21 7 32.47	13 15 31.5 39 24.0	0.10 9668 4980	23 34.9	
Sept.	1	10 16 20.68 7 29.70	12 36 7.5 40 53.0	0.11 4648 4504	23 38.5
	2	10 23 50.38	11 55 14.5	0.11 9152	23 42.0

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1920					
Sept. 2	10 <sup>h</sup> 23 <sup>m</sup> 50. <sup>s</sup> 38	7 <sup>h</sup> 26. <sup>m</sup> 14	+11° 55' 14.5"	0.11 9152	23 <sup>h</sup> 42. <sup>m</sup> 0
3	10 31 16.52	7 21.96	11 13 3.4	0.12 3201	23 45.4
4	10 38 38.48	7 17.29	10 29 44.3	0.12 6820	23 48.8
5	10 45 55.77	7 12.28	9 45 26.8	0.13 0032	23 52.0
6	10 53 8.05	7 7.05	9 0 20.3	0.13 2861	23 55.2
7	11 0 15.10	7 1.67	8 14 33.0	0.13 5329	23 58.3
8	11 7 16.77	6 56.24	+ 7 28 12.7	0.13 7459	—
9	11 14 13.01	6 50.83	6 41 26.6	0.13 9269	0 1.3
10	11 21 3.84	6 45.47	5 54 21.0	0.14 0780	0 4.2
11	11 27 49.31	6 40.22	5 7 1.8	0.14 2010	0 7.0
12	11 34 29.53	6 35.12	4 19 34.4	0.14 2975	0 9.8
13	11 41 4.65	6 30.17	3 32 3.5	0.14 3689	0 12.4
14	11 47 34.82	6 25.40	+ 2 44 33.4	0.14 4166	0 15.0
15	11 54 0.22	6 20.84	1 57 8.1	0.14 4419	0 17.5
16	12 0 21.06	6 16.47	1 9 51.1	0.14 4459	0 19.9
17	12 6 37.53	6 12.31	+ 0 22 45.6	0.14 4294	0 22.2
18	12 12 49.84	6 8.36	- 0 24 5.6	0.14 3936	0 24.5
19	12 18 58.20	6 4.61	1 10 39.8	0.14 3389	0 26.7
20	12 25 2.81	6 1.08	- 1 56 54.6	0.14 2663	0 28.8
21	12 31 3.89	5 57.73	2 42 47.8	0.14 1762	0 30.9
22	12 37 1.62	5 54.58	3 28 17.4	0.14 0691	0 32.9
23	12 42 56.20	5 51.61	4 13 21.5	0.13 9455	0 34.9
24	12 48 47.81	5 48.82	4 57 58.4	0.13 8056	0 36.8
25	12 54 36.63	5 46.19	5 42 6.3	0.13 6497	0 38.7
26	13 0 22.82	5 43.72	- 6 25 43.9	0.13 4781	0 40.5
27	13 6 6.54	5 41.38	7 8 49.6	0.13 2908	0 42.3
28	13 11 47.92	5 39.20	7 51 21.9	0.13 0880	0 44.1
29	13 17 27.12	5 37.11	8 33 19.6	0.12 8697	0 45.7
30	13 23 4.23	5 35.15	9 14 41.3	0.12 6357	0 47.4
Okt. 1	13 28 39.38	5 33.27	9 55 25.7	0.12 3860	0 49.1
2	13 34 12.65	5 31.46	-10 35 31.4	0.12 1205	0 50.7
3	13 39 44.11	5 29.72	11 14 57.3	0.11 8389	0 52.2
4	13 45 13.83	5 28.01	11 53 41.9	0.11 5410	0 53.8
5	13 50 41.84	5 26.34	12 31 44.0	0.11 2264	0 55.3
6	13 56 8.18	5 24.64	13 9 2.1	0.10 8949	0 56.8
7	14 1 32.82	5 22.94	13 45 34.9	0.10 5459	0 58.3
8	14 6 55.76	5 21.17	-14 21 20.9	0.10 1791	0 59.7
9	14 12 16.93	5 19.34	14 56 18.8	0.09 7939	1 1.1
10	14 17 36.27	5 17.39	15 30 26.8	0.09 3898	1 2.5
11	14 22 53.66	5 15.31	16 3 43.4	0.08 9662	1 3.9
12	14 28 8.97	5 13.03	16 36 6.8	0.08 5224	1 5.2
13	14 33 22.00		17 7 35.3	0.08 0577	1 6.5

Tag	0 <sup>h</sup> mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1920							
Okt. 13	14 <sup>h</sup> 33 <sup>m</sup> 22.00 <sup>s</sup>	5 <sup>m</sup> 10.55 <sup>s</sup>	−17 <sup>m</sup> 7 <sup>s</sup> 35.3 <sup>"</sup>	30 <sup>m</sup> 31.8 <sup>s</sup>	0.08 0577	4862	1 <sup>h</sup> 6 <sup>m</sup> 5 <sup>s</sup>
14	14 38 32.55	5 7.79	17 38 7.1	29 32.8	0.07 5715	5086	I 7.7
15	14 43 40.34	5 4.72	18 7 39.9	28 32.0	0.07 0629	5317	I 8.9
16	14 48 45.06	5 1.30	18 36 11.9	27 28.7	0.06 5312	5557	I 10.0
17	14 53 46.36	4 57.42	19 3 40.6	26 23.2	0.05 9755	5806	I 11.1
18	14 58 43.78	4 53.04	19 30 3.8	25 14.9	0.05 3949	6064	I 12.1
19	15 3 36.82	4 48.09	−19 55 18.7	24 4.0	0.04 7885	6331	I 13.0
20	15 8 24.91	4 42.47	20 19 22.7	22 49.9	0.04 1554	6608	I 13.9
21	15 13 7.38	4 36.08	20 42 12.6	21 32.9	0.03 4946	6892	I 14.7
22	15 17 43.46	4 28.83	21 3 45.5	20 12.1	0.02 8054	7187	I 15.3
23	15 22 12.29	4 20.57	21 23 57.6	18 47.5	0.02 0867	7488	I 15.8
24	15 26 32.86	4 11.20	21 42 45.1	17 18.9	0.01 3379	7797	I 16.2
25	15 30 44.06	4 0.54	−22 0 4.0	15 45.5	0.00 5582	8111	I 16.5
26	15 34 44.60	3 48.46	22 15 49.5	14 7.1	9.99 7471	8428	I 16.5
27	15 38 33.06	3 34.77	22 29 56.6	12 23.1	9.98 9043	8746	I 16.4
28	15 42 7.83	3 19.30	22 42 19.7	10 32.9	9.98 0297	9059	I 16.0
29	15 45 27.13	3 1.84	22 52 52.6	8 35.7	9.97 1238	9363	I 15.4
30	15 48 28.97	2 42.20	23 1 28.3	6 30.9	9.96 1875	9653	I 14.4
31	15 51 11.17	2 20.18	−23 7 59.2	4 17.3	9.95 2222	9916	I 13.2
Nov. 1	15 53 31.35	1 55.63	23 12 16.5	1 54.2	9.94 2306	10147	I 11.6
2	15 55 26.98	1 28.39	23 14 10.7	0 39.3	9.93 2159	10327	I 9.5
3	15 56 55.37	0 58.38	23 13 31.4	3 24.4	9.92 1832	10442	I 7.0
4	15 57 53.75	0 25.62	23 10 7.0	6 21.7	9.91 1390	10474	I 4.0
5	15 58 19.37	0 9.75	23 3 45.3	9 31.8	9.90 0916	10397	I 0.5
6	15 58 9.62	0 47.39	−22 54 13.5	12 54.4	9.89 0519	10186	0 56.4
7	15 57 22.23	1 26.77	22 41 19.1	16 28.6	9.88 0333	9815	0 51.7
8	15 55 55.46	2 7.03	22 24 50.5	20 11.9	9.87 0518	9255	0 46.3
9	15 53 48.43	2 47.03	22 4 38.6	24 0.1	9.86 1263	8480	0 40.2
10	15 51 1.40	3 25.32	21 40 38.5	27 46.6	9.85 2783	7469	0 33.5
11	15 47 36.08	4 0.17	21 12 51.9	31 22.3	9.84 5314	6215	0 26.2
12	15 43 35.91	4 29.73	−20 41 29.6	34 35.9	9.83 9099	4723	0 18.2
13	15 39 6.18	4 52.15	20 6 53.7	37 14.4	9.83 4376	3017	0 9.9
14	15 34 14.03	5 5.83	19 29 39.3	39 4.5	9.83 1359	1143	0 1.1
15	15 29 8.20	5 9.65	18 50 34.8	39 54.5	9.83 0216	835	23 43.1
16	15 23 58.55	5 3.18	18 10 40.3	39 36.5	9.83 1051	2840	23 34.1
17	15 18 55.37	4 46.67	17 31 3.8	38 7.8	9.83 3891	4788	23 25.4
18	15 14 8.70	4 21.15	−16 52 56.0	35 31.3	9.83 8679	6601	23 17.2
19	15 9 47.55	3 48.17	16 17 24.7	31 55.6	9.84 5280	8215	23 9.5
20	15 5 59.38	3 9.61	15 45 29.1	27 33.5	9.85 3495	9583	23 2.4
21	15 2 49.77	2 27.45	15 17 55.6	22 39.6	9.86 3078	10684	22 56.0
22	15 0 22.32	1 43.55	14 55 16.0	17 29.0	9.87 3762	11514	22 50.3
23	14 58 38.77		14 37 47.0		9.88 5276		22 45.3

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
Nov. 23	14 <sup>h</sup> 58 <sup>m</sup> 38 <sup>s</sup> .77 0 <sup>m</sup> 59.53	—14° 37' 47.0" 12' 15.1"	9.88 5276 12085	22 <sup>h</sup> 45.3 <sup>m</sup>
24	14 57 39.24 0 16.68	14 25 31.9 7 9.6	9.89 7361 12423	22 41.1
25	14 57 22.56 0 24.11	14 18 22.3 2 20.5	9.90 9784 12560	22 37.5
26	14 57 46.67 1 2.21	14 16 1.8 2 5.9	9.92 2344 12529	22 34.6
27	14 58 48.88 1 37.29	14 18 7.7 6 6.4	9.93 4873 12363	22 32.2
28	15 0 26.17 2 9.21	14 24 14.1 9 39.4	9.94 7236 12094	22 30.4
29	15 2 35.38 2 38.02	—14 33 53.5 12 44.8	9.95 9330 11746	22 29.1
30	15 5 13.40 3 3.84	14 46 38.3 15 23.6	9.97 1076 11345	22 28.2
Dez. 1	15 8 17.24 3 26.88	15 2 1.9 17 37.2	9.98 2421 10906	22 27.7
2	15 11 44.12 3 47.37	15 19 39.1 19 27.7	9.99 3327 10445	22 27.5
3	15 15 31.49 4 5.56	15 39 6.8 20 57.1	0.00 3772 9975	22 27.6
4	15 19 37.05 4 21.72	16 0 3.9 22 7.5	0.01 3747 9503	22 28.0
5	15 23 58.77 4 36.04	—16 22 11.4 23 0.9	0.02 3250 9037	22 28.7
6	15 28 34.81 4 48.80	16 45 12.3 23 39.4	0.03 2287 8579	22 29.5
7	15 33 23.61 5 0.15	17 8 51.7 24 4.5	0.04 0866 8136	22 30.6
8	15 38 23.76 5 10.29	17 32 56.2 24 18.0	0.04 9002 7707	22 31.8
9	15 43 34.05 5 19.39	17 57 14.2 24 21.0	0.05 6709 7294	22 33.2
10	15 48 53.44 5 27.56	18 21 35.2 24 15.0	0.06 4003 6900	22 34.7
11	15 54 21.00 5 34.96	—18 45 50.2 24 1.0	0.07 0903 6522	22 36.3
12	15 59 55.96 5 41.66	19 9 51.2 23 39.9	0.07 7425 6161	22 38.1
13	16 5 37.62 5 47.77	19 33 31.1 23 12.6	0.08 3586 5818	22 39.9
14	16 11 25.39 5 53.37	19 56 43.7 22 39.8	0.08 9404 5489	22 41.9
15	16 17 18.76 5 58.53	20 19 23.5 22 2.0	0.09 4893 5176	22 43.9
16	16 23 17.29 6 3.28	20 41 25.5 21 19.9	0.10 0069 4878	22 46.0
17	16 29 20.57 6 7.71	—21 2 45.4 20 33.7	0.10 4947 4594	22 48.2
18	16 35 28.28 6 11.83	21 23 19.1 19 44.1	0.10 9541 4321	22 50.4
19	16 41 40.11 6 15.69	21 43 3.2 18 51.3	0.11 3862 4062	22 52.8
20	16 47 55.80 6 19.32	22 1 54.5 17 55.6	0.11 7924 3813	22 55.1
21	16 54 15.12 6 22.74	22 19 50.1 16 57.3	0.12 1737 3574	22 57.6
22	17 0 37.86 6 25.98	22 36 47.4 15 56.4	0.12 5311 3345	23 0.1
23	17 7 3.84 6 29.05	—22 52 43.8 14 53.4	0.12 8656 3125	23 2.6
24	17 13 32.89 6 31.96	23 7 37.2 13 48.2	0.13 1781 2912	23 5.2
25	17 20 4.85 6 34.74	23 21 25.4 12 41.1	0.13 4693 2706	23 7.8
26	17 26 39.59 6 37.39	23 34 6.5 11 32.2	0.13 7399 2509	23 10.5
27	17 33 16.98 6 39.91	23 45 38.7 10 21.6	0.13 9908 2315	23 13.3
28	17 39 56.89 6 42.31	23 56 0.3 9 9.3	0.14 2223 2127	23 16.0
29	17 46 39.20 6 44.60	—24 5 9.6 7 55.5	0.14 4350 1945	23 18.8
30	17 53 23.80 6 46.77	24 13 5.1 6 40.2	0.14 6295 1765	23 21.7
31	18 0 10.57 6 48.84	24 19 45.3 5 23.6	0.14 8060 1589	23 24.5
32	18 6 59.41	24 25 8.9	0.14 9649	23 27.5



Tag	O <sup>h</sup> mittlere Zeit Greenwich						log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension			Scheinbare Deklination				
1920								
Jan.	0	15 <sup>h</sup> 34 <sup>m</sup> 56.04 <sup>s</sup>	4 <sup>m</sup> 43.78 <sup>s</sup>	-16° 39'	51.2"	17 22.5	9.98 3082	21 <sup>h</sup> 0.2 <sup>m</sup>
	1	15 39 39.82	4 45.12	16 57 13.7	17 1.9		9.98 6280	21 1.0
	2	15 44 24.94	4 46.45	17 14 15.6	16 40.2		9.98 9445	21 1.8
	3	15 49 11.39	4 47.78	17 30 55.8	16 17.9		9.99 2580	21 2.7
	4	15 53 59.17	4 49.11	17 47 13.7	15 54.7		9.99 5684	21 3.5
	5	15 58 48.28	4 50.42	18 3 8.4	15 30.9		9.99 8757	21 4.4
	6	16 3 38.70	4 51.72	-18 18 39.3	15 6.3		0.00 1800	21 5.3
	7	16 8 30.42	4 53.01	18 33 45.6	14 40.8		0.00 4813	21 6.3
	8	16 13 23.43	4 54.27	18 48 26.4	14 14.6		0.00 7797	21 7.3
	9	16 18 17.70	4 55.52	19 2 41.0	13 47.7		0.01 0751	21 8.2
	10	16 23 13.22	4 56.75	19 16 28.7	13 20.0		0.01 3676	21 9.2
	11	16 28 9.97	4 57.95	19 29 48.7	12 51.7		0.01 6572	21 10.3
	12	16 33 7.92	4 59.11	-19 42 40.4	12 22.6		0.01 9439	21 11.3
	13	16 38 7.03	5 0.25	19 55 3.0	11 52.9		0.02 2277	21 12.4
	14	16 43 7.28	5 1.35	20 6 55.9	11 22.4		0.02 5088	21 13.4
	15	16 48 8.63	5 2.42	20 18 18.3	10 51.5		0.02 7870	21 14.5
	16	16 53 11.05	5 3.46	20 29 9.8	10 19.9		0.03 0625	21 15.6
	17	16 58 14.51	5 4.45	20 39 29.7	9 47.7		0.03 3352	21 16.7
	18	17 3 18.96	5 5.41	-20 49 17.4	9 14.8		0.03 6053	21 17.9
	19	17 8 24.37	5 6.31	20 58 32.2	8 41.4		0.03 8728	21 19.1
	20	17 13 30.68	5 7.19	21 7 13.6	8 7.7		0.04 1374	21 20.2
	21	17 18 37.87	5 8.02	21 15 21.3	7 33.2		0.04 3995	21 21.4
	22	17 23 45.89	5 8.79	21 22 54.5	6 58.5		0.04 6591	21 22.7
	23	17 28 54.68	5 9.52	21 29 53.0	6 23.2		0.04 9161	21 23.9
	24	17 34 4.20	5 10.21	-21 36 16.2	5 47.5		0.05 1706	21 25.1
	25	17 39 14.41	5 10.84	21 42 3.7	5 11.4		0.05 4227	21 26.3
	26	17 44 25.25	5 11.42	21 47 15.1	4 35.0		0.05 6724	21 27.6
	27	17 49 36.67	5 11.96	21 51 50.1	3 58.2		0.05 9197	21 28.8
	28	17 54 48.63	5 12.45	21 55 48.3	3 21.1		0.06 1647	21 30.1
	29	18 0 1.08	5 12.89	21 59 9.4	2 43.7		0.06 4073	21 31.4
	30	18 5 13.97	5 13.28	-22 1 53.1	2 6.1		0.06 6477	21 32.7
	31	18 10 27.25	5 13.62	22 3 59.2	1 28.3		0.06 8859	21 33.9
Febr.	1	18 15 40.87	5 13.91	22 5 27.5	0 50.2		0.07 1218	21 35.2
	2	18 20 54.78	5 14.15	22 6 17.7	0 11.9		0.07 3556	21 36.5
	3	18 26 8.93	5 14.33	22 6 29.6	0 26.6		0.07 5872	21 37.8
	4	18 31 23.26	5 14.47	22 6 3.0	1 4.9		0.07 8167	21 39.1
	5	18 36 37.73	5 14.55	-22 4 58.1	1 43.5		0.08 0440	21 40.4
	6	18 41 52.28	5 14.59	22 3 14.6	2 22.1		0.08 2693	21 41.7
	7	18 47 6.87	5 14.56	22 0 52.5	3 0.8		0.08 4924	21 43.0
	8	18 52 21.43	5 14.49	21 57 51.7	3 39.4		0.08 7134	21 44.3
	9	18 57 35.92	5 14.35	21 54 12.3	4 18.0		0.08 9324	21 45.6
	10	19 2 50.27		21 49 54.3			0.09 1493	21 46.9

Tag	0 <sup>h</sup> mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log $\Delta$		
1920							
Febr. 10	19 <sup>h</sup> 2 <sup>m</sup> 50.27	5 <sup>m</sup> 14.17	-21° 49' 54.3"	4' 56.3"	0.09 1493	2148	21 <sup>h</sup> 46.9 <sup>m</sup>
11	19 8 4.44	5 13.93	21 44 58.0	5 34.7	0.09 3641	2128	21 48.2
12	19 13 18.37	5 13.63	21 39 23.3	6 13.0	0.09 5769	2108	21 49.5
13	19 18 32.00	5 13.29	21 33 10.3	6 50.9	0.09 7877	2088	21 50.8
14	19 23 45.29	5 12.90	21 26 19.4	7 28.8	0.09 9965	2068	21 52.0
15	19 28 58.19	5 12.45	21 18 50.6	8 6.5	0.10 2033	2048	21 53.3
16	19 34 10.64	5 11.96	-21 10 44.1	8 43.8	0.10 4081	2028	21 54.6
17	19 39 22.60	5 11.43	21 2 0.3	9 20.9	0.10 6109	2009	21 55.8
18	19 44 34.03	5 10.84	20 52 39.4	9 57.7	0.10 8118	1990	21 57.1
19	19 49 44.87	5 10.21	20 42 41.7	10 34.0	0.11 0108	1971	21 58.3
20	19 54 55.08	5 9.55	20 32 7.7	11 9.9	0.11 2079	1953	21 59.5
21	20 0 4.63	5 8.84	20 20 57.8	11 45.6	0.11 4032	1933	22 0.7
22	20 5 13.47	5 8.09	-20 9 12.2	12 20.9	0.11 5965	1915	22 1.9
23	20 10 21.56	5 7.32	19 56 51.3	12 55.7	0.11 7880	1898	22 3.1
24	20 15 28.88	5 6.52	19 43 55.6	13 30.1	0.11 9778	1879	22 4.2
25	20 20 35.40	5 5.68	19 30 25.5	14 4.0	0.12 1657	1862	22 5.4
26	20 25 41.08	5 4.81	19 16 21.5	14 37.4	0.12 3519	1845	22 6.5
27	20 30 45.89	5 3.92	19 1 44.1	15 10.3	0.12 5364	1827	22 7.7
28	20 35 49.81	5 3.03	-18 46 33.8	15 42.8	0.12 7191	1811	22 8.8
29	20 40 52.84	5 2.12	18 30 51.0	16 14.7	0.12 9002	1794	22 9.9
März 1	20 45 54.96	5 1.17	18 14 36.3	16 46.1	0.13 0796	1778	22 10.9
2	20 50 56.13	5 0.23	17 57 50.2	17 16.9	0.13 2574	1761	22 12.0
3	20 55 56.36	4 59.29	17 40 33.3	17 47.2	0.13 4335	1745	22 13.1
4	21 0 55.65	4 58.31	17 22 46.1	18 16.9	0.13 6080	1729	22 14.1
5	21 5 53.96	4 57.35	-17 4 29.2	18 46.0	0.13 7809	1713	22 15.1
6	21 10 51.31	4 56.37	16 45 43.2	19 14.5	0.13 9522	1696	22 16.1
7	21 15 47.68	4 55.39	16 26 28.7	19 42.4	0.14 1218	1681	22 17.1
8	21 20 43.07	4 54.42	16 6 46.3	20 9.6	0.14 2899	1665	22 18.1
9	21 25 37.49	4 53.44	15 46 36.7	20 36.2	0.14 4564	1648	22 19.0
10	21 30 30.93	4 52.46	15 26 0.5	21 2.2	0.14 6212	1633	22 19.9
11	21 35 23.39	4 51.48	-15 4 58.3	21 27.5	0.14 7845	1617	22 20.8
12	21 40 14.87	4 50.52	14 43 30.8	21 52.1	0.14 9462	1601	22 21.8
13	21 45 5.39	4 49.56	14 21 38.7	22 16.1	0.15 1063	1585	22 22.7
14	21 49 54.95	4 48.60	13 59 22.6	22 39.4	0.15 2648	1569	22 23.5
15	21 54 43.55	4 47.66	13 36 43.2	23 2.0	0.15 4217	1554	22 24.4
16	21 59 31.21	4 46.72	13 13 41.2	23 24.0	0.15 5771	1539	22 25.2
17	22 4 17.93	4 45.80	-12 50 17.2	23 45.0	0.15 7310	1522	22 26.0
18	22 9 3.73	4 44.90	12 26 32.2	24 5.6	0.15 8832	1506	22 26.8
19	22 13 48.63	4 44.00	12 2 26.6	24 25.4	0.16 0338	1492	22 27.6
20	22 18 32.63	4 43.13	11 38 1.2	24 44.5	0.16 1830	1476	22 28.4
21	22 23 15.76	4 42.26	11 13 16.7	25 2.9	0.16 3306	1460	22 29.2
22	22 27 58.02		10 48 13.8		0.16 4766		22 29.9

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1920					
März 22	22 <sup>h</sup> 27 <sup>m</sup> 58. <sup>s</sup> 02	4 41.43	− 10° 48' 13.8"	0.16 4766	22 <sup>h</sup> 29.9 <sup>m</sup>
23	22 32 39.45	4 40.62	10 22 53.2	0.16 6212	22 30.7
24	22 37 20.07	4 39.83	9 57 15.7	0.16 7643	22 31.4
25	22 41 59.90	4 39.06	9 31 21.8	0.16 9059	22 32.1
26	22 46 38.96	4 38.32	9 5 12.2	0.17 0460	22 32.8
27	22 51 17.28	4 37.60	8 38 47.8	0.17 1847	22 33.5
28	22 55 54.88	4 36.92	− 8 12 9.3	0.17 3220	22 34.1
29	23 0 31.80	4 36.28	7 45 17.2	0.17 4578	22 34.8
30	23 5 8.08	4 35.66	7 18 12.1	0.17 5923	22 35.5
31	23 9 43.74	4 35.09	6 50 54.8	0.17 7253	22 36.1
April 1	23 14 18.83	4 34.54	6 23 26.1	0.17 8569	22 36.7
2	23 18 53.37	4 34.03	5 55 46.6	0.17 9872	22 37.4
3	23 23 27.40	4 33.56	− 5 27 57.0	0.18 1160	22 38.0
4	23 28 0.96	4 33.12	4 59 57.9	0.18 2435	22 38.6
5	23 32 34.08	4 32.72	4 31 50.0	0.18 3696	22 39.2
6	23 37 6.80	4 32.36	4 3 33.9	0.18 4943	22 39.8
7	23 41 39.16	4 32.03	3 35 10.6	0.18 6176	22 40.4
8	23 46 11.19	4 31.74	3 6 40.7	0.18 7395	22 41.0
9	23 50 42.93	4 31.49	− 2 38 4.7	0.18 8600	22 41.6
10	23 55 14.42	4 31.28	2 9 23.4	0.18 9791	22 42.1
11	23 59 45.70	4 31.09	1 40 37.4	0.19 0967	22 42.7
12	0 4 16.79	4 30.96	1 11 47.5	0.19 2130	22 43.3
13	0 8 47.75	4 30.86	0 42 54.5	0.19 3278	22 43.9
14	0 13 18.61	4 30.79	− 0 13 58.9	0.19 4413	22 44.4
15	0 17 49.40	4 30.76	+ 0 14 58.5	0.19 5534	22 45.0
16	0 22 20.16	4 30.77	0 43 57.0	0.19 6640	22 45.6
17	0 26 50.93	4 30.82	1 12 56.0	0.19 7731	22 46.1
18	0 31 21.75	4 30.89	1 41 54.7	0.19 8809	22 46.7
19	0 35 52.64	4 31.01	2 10 52.4	0.19 9872	22 47.3
20	0 40 23.65	4 31.17	2 39 48.4	0.20 0921	22 47.9
21	0 44 54.82	4 31.35	+ 3 8 42.0	0.20 1956	22 48.4
22	0 49 26.17	4 31.59	3 37 32.5	0.20 2977	22 49.0
23	0 53 57.76	4 31.85	4 6 19.2	0.20 3984	22 49.6
24	0 58 29.61	4 32.16	4 35 1.4	0.20 4977	22 50.2
25	1 3 1.77	4 32.50	5 3 38.5	0.20 5956	22 50.8
26	1 7 34.27	4 32.88	5 32 9.7	0.20 6921	22 51.4
27	1 12 7.15	4 33.30	+ 6 0 34.3	0.20 7873	22 52.0
28	1 16 40.45	4 33.77	6 28 51.7	0.20 8811	22 52.6
29	1 21 14.22	4 34.26	6 57 1.2	0.20 9735	22 53.3
30	1 25 48.48	4 34.80	7 25 2.0	0.21 0647	22 53.9
Mai 1	1 30 23.28	4 35.37	7 52 53.5	0.21 1544	22 54.6
2	1.34 58.65		8 20 35.0	0.21 2428	22 55.2

Tag	0 <sup>h</sup> mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1920							
Mai	2	1 <sup>h</sup> 34 <sup>m</sup> 58. <sup>s</sup> 65	4 <sup>m</sup> 35. <sup>s</sup> 99	+ 8° 20' 35.0	27 30.8	0.21 2428	22 <sup>h</sup> 55. <sup>m</sup> 2
	3	1 39 34.64	4 36.64	8 48 5.8	27 19.3	0.21 3299	22 55.9
	4	1 44 11.28	4 37.32	9 15 25.1	27 7.2	0.21 4155	22 56.6
	5	1 48 48.60	4 38.04	9 42 32.3	26 54.4	0.21 4998	22 57.3
	6	1 53 26.64	4 38.79	10 9 26.7	26 40.8	0.21 5828	22 58.0
	7	1 58 5.43	4 39.58	10 36 7.5	26 26.6	0.21 6644	22 58.7
	8	2 2 45.01	4 40.40	+11 2 34.1	26 11.6	0.21 7446	22 59.4
	9	2 7 25.41	4 41.24	11 28 45.7	25 55.8	0.21 8234	23 0.1
	10	2 12 6.65	4 42.11	11 54 41.5	25 39.4	0.21 9008	23 0.9
	11	2 16 48.76	4 43.02	12 20 20.9	25 22.1	0.21 9768	23 1.7
	12	2 21 31.78	4 43.95	12 45 43.0	25 4.3	0.22 0514	23 2.5
	13	2 26 15.73	4 44.90	13 10 47.3	24 45.7	0.22 1246	23 3.3
	14	2 31 0.63	4 45.87	+13 35 33.0	24 26.3	0.22 1964	23 4.1
	15	2 35 46.50	4 46.86	13 59 59.3	24 6.2	0.22 2667	23 4.9
	16	2 40 33.36	4 47.88	14 24 5.5	23 45.4	0.22 3356	23 5.8
	17	2 45 21.24	4 48.91	14 47 50.9	23 23.8	0.22 4030	23 6.7
	18	2 50 10.15	4 49.95	15 11 14.7	23 1.6	0.22 4690	23 7.6
	19	2 55 0.10	4 51.00	15 34 16.3	22 38.4	0.22 5336	23 8.5
	20	2 59 51.10	4 52.07	+15 56 54.7	22 14.8	0.22 5967	23 9.4
	21	3 4 43.17	4 53.15	16 19 9.5	21 50.2	0.22 6583	23 10.3
	22	3 9 36.32	4 54.24	16 40 59.7	21 25.1	0.22 7185	23 11.3
	23	3 14 30.56	4 55.33	17 2 24.8	20 59.2	0.22 7772	23 12.3
	24	3 19 25.89	4 56.44	17 23 24.0	20 32.6	0.22 8346	23 13.3
	25	3 24 22.33	4 57.54	17 43 56.6	20 5.3	0.22 8905	23 14.3
	26	3 29 19.87	4 58.66	+18 4 1.9	19 37.3	0.22 9450	23 15.3
	27	3 34 18.53	4 59.77	18 23 39.2	19 8.7	0.22 9981	23 16.4
	28	3 39 18.30	5 0.88	18 42 47.9	18 39.3	0.23 0498	23 17.5
	29	3 44 19.18	5 1.99	19 1 27.2	18 9.2	0.23 1001	23 18.5
	30	3 49 21.17	5 3.11	19 19 36.4	17 38.6	0.23 1489	23 19.6
	31	3 54 24.28	5 4.20	19 37 15.0	17 7.2	0.23 1964	23 20.8
Juni	1	3 59 28.48	5 5.29	+19 54 22.2	16 35.2	0.23 2425	23 21.9
	2	4 4 33.77	5 6.38	20 10 57.4	16 2.6	0.23 2871	23 23.1
	3	4 9 40.15	5 7.44	20 27 0.0	15 29.3	0.23 3303	23 24.3
	4	4 14 47.59	5 8.48	20 42 29.3	14 55.5	0.23 3721	23 25.5
	5	4 19 56.07	5 9.52	20 57 24.8	14 20.9	0.23 4125	23 26.7
	6	4 25 5.59	5 10.52	21 11 45.7	13 45.9	0.23 4515	23 27.9
	7	4 30 16.11	5 11.50	+21 25 31.6	13 10.3	0.23 4890	23 29.2
	8	4 35 27.61	5 12.46	21 38 41.9	12 34.1	0.23 5251	23 30.4
	9	4 40 40.07	5 13.38	21 51 16.0	11 57.3	0.23 5597	23 31.7
	10	4 45 53.45	5 14.28	22 3 13.3	11 20.1	0.23 5929	23 33.0
	11	4 51 7.73	5 15.14	22 14 33.4	10 42.4	0.23 6246	23 34.3
	12	4 56 22.87		22 25 15.8		0.23 6548	23 35.6

Tag	O <sup>b</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich	
	Scheinbare Rektaszension	Scheinbare Deklination				
<b>1920</b>						
<b>Juni</b>				<b>Bibl. Jag.</b>		
12	4 <sup>h</sup> 56 <sup>m</sup> 22.87 <sup>s</sup>	5 15.95	+22° 25' 15.8"	10 4.2	0.23 6548	
13	5 1 38.82	5 16.72	22 35 20.0	9 25.5	0.23 6835	
14	5 6 55.54	5 17.47	22 44 45.5	8 46.5	0.23 7108	
15	5 12 13.01	5 18.15	22 53 32.0	8 6.9	0.23 7365	
16	5 17 31.16	5 18.78	23 1 38.9	7 27.1	0.23 7607	
17	5 22 49.94	5 19.37	23 9 6.0	6 46.8	0.23 7835	
18	5 28 9.31	5 19.91	+23 15 52.8	6 6.2	0.23 8047	
19	5 33 29.22	5 20.38	23 21 59.0	5 25.4	0.23 8244	
20	5 38 49.60	5 20.81	23 27 24.4	4 44.2	0.23 8427	
21	5 44 10.41	5 21.19	23 32 8.6	4 2.9	0.23 8594	
22	5 49 31.60	5 21.50	23 36 11.5	3 21.3	0.23 8747	
23	5 54 53.10	5 21.77	23 39 32.8	2 39.5	0.23 8885	
24	6 0 14.87	5 21.97	+23 42 12.3	1 57.5	0.23 9008	
25	6 5 36.84	5 22.13	23 44 9.8	1 15.5	0.23 9117	
26	6 10 58.97	5 22.22	23 45 25.3	0 33.3	0.23 9210	
27	6 16 21.19	5 22.26	23 45 58.6	0 8.9	0.23 9289	
28	6 21 43.45	5 22.24	23 45 49.7	0 51.2	0.23 9354	
29	6 27 5.69	5 22.17	23 44 58.5	1 33.5	0.23 9404	
30	6 32 27.86	5 22.03	+23 43 25.0	2 15.8	0.23 9440	
<b>Juli</b>	1	6 37 49.89	5 21.85	23 41 9.2	2 57.9	0.23 9461
2	6 43 11.74	5 21.61	23 38 11.3	3 40.0	0.23 9468	
3	6 48 33.35	5 21.30	23 34 31.3	4 22.1	0.23 9460	
4	6 53 54.65	5 20.96	23 30 9.2	5 4.0	0.23 9438	
5	6 59 15.61	5 20.56	23 25 5.2	5 45.6	0.23 9401	
6	7 4 36.17	5 20.10	+23 19 19.6	6 27.1	0.23 9349	
7	7 9 56.27	5 19.60	23 12 52.5	7 8.4	0.23 9283	
8	7 15 15.87	5 19.03	23 5 44.1	7 49.4	0.23 9203	
9	7 20 34.90	5 18.43	22 57 54.7	8 30.2	0.23 9107	
10	7 25 53.33	5 17.77	22 49 24.5	9 10.5	0.23 8997	
11	7 31 11.10	5 17.07	22 40 14.0	9 50.5	0.23 8872	
12	7 36 28.17	5 16.32	+22 30 23.5	10 30.2	0.23 8733	
13	7 41 44.49	5 15.54	22 19 53.3	11 9.4	0.23 8578	
14	7 47 0.03	5 14.70	22 8 43.9	11 48.3	0.23 8408	
15	7 52 14.73	5 13.82	21 56 55.6	12 26.7	0.23 8223	
16	7 57 28.55	5 12.92	21 44 28.9	13 4.5	0.23 8023	
17	8 2 41.47	5 11.96	21 31 24.4	13 42.0	0.23 7808	
18	8 7 53.43	5 10.98	+21 17 42.4	14 18.9	0.23 7577	
19	8 13 4.41	5 9.97	21 3 23.5	14 55.2	0.23 7332	
20	8 18 14.38	5 8.93	20 48 28.3	15 31.0	0.23 7072	
21	8 23 23.31	5 7.86	20 32 57.3	16 6.3	0.23 6797	
22	8 28 31.17	5 6.77	20 16 51.0	16 41.0	0.23 6507	
23	8 33 37.94		20 0 10.0		0.23 6203	

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
Juli 23	8 <sup>h</sup> 33 <sup>m</sup> 37.94 <sup>s</sup> 5 <sup>m</sup> 5.67 <sup>s</sup>	+20° 0' 10.0" 17' 15.0"	0.23 6203	319 0 <sup>h</sup> 30.0 <sup>m</sup>
24	8 38 43.61 5 4.55	19 42 55.0 17 48.5	0.23 5884	333 0 31.1
25	8 43 48.16 5 3.42	19 25 6.5 18 21.4	0.23 5551	348 0 32.3
26	8 48 51.58 5 2.27	19 6 45.1 18 53.6	0.23 5203	362 0 33.4
27	8 53 53.85 5 1.12	18 47 51.5 19 25.3	0.23 4841	377 0 34.5
28	8 58 54.97 4 59.96	18 28 26.2 19 56.1	0.23 4464	391 0 35.6
29	9 3 54.93 4 58.81	+18 8 30.1 20 26.4	0.23 4073	405 0 36.6
30	9 8 53.74 4 57.64	17 48 3.7 20 56.2	0.23 3668	419 0 37.6
31	9 13 51.38 4 56.49	17 27 7.5 21 25.0	0.23 3249	434 0 38.7
Aug. 1	9 18 47.87 4 55.33	17 5 42.5 21 53.3	0.23 2815	447 0 39.7
2	9 23 43.20 4 54.19	16 43 49.2 22 20.9	0.23 2368	461 0 40.6
3	9 28 37.39 4 53.05	16 21 28.3 22 47.8	0.23 1907	476 0 41.6
4	9 33 30.44 4 51.93	+15 58 40.5 23 14.0	0.23 1431	490 0 42.6
5	9 38 22.37 4 50.81	15 35 26.5 23 39.4	0.23 0941	505 0 43.5
6	9 43 13.18 4 49.71	15 11 47.1 24 4.3	0.23 0436	518 0 44.4
7	9 48 2.89 4 48.63	14 47 42.8 24 28.2	0.22 9918	532 0 45.3
8	9 52 51.52 4 47.56	14 23 14.6 24 51.7	0.22 9386	546 0 46.1
9	9 57 39.08 4 46.51	13 58 22.9 25 14.2	0.22 8840	561 0 47.0
10	10 2 25.59 4 45.48	+13 33 8.7 25 36.2	0.22 8279	575 0 47.8
11	10 7 11.07 4 44.48	13 7 32.5 25 57.2	0.22 7704	590 0 48.6
12	10 11 55.55 4 43.48	12 41 35.3 26 17.6	0.22 7114	604 0 49.4
13	10 16 39.03 4 42.52	12 15 17.7 26 37.3	0.22 6510	619 0 50.2
14	10 21 21.55 4 41.57	11 48 40.4 26 56.3	0.22 5891	634 0 51.0
15	10 26 3.12 4 40.66	11 21 44.1 27 14.4	0.22 5257	647 0 51.7
16	10 30 43.78 4 39.77	+10 54 29.7 27 31.7	0.22 4610	662 0 52.5
17	10 35 23.55 4 38.90	10 26 58.0 27 48.5	0.22 3948	677 0 53.2
18	10 40 2.45 4 38.06	9 59 9.5 28 4.4	0.22 3271	690 0 53.9
19	10 44 40.51 4 37.26	9 31 5.1 28 19.5	0.22 2581	705 0 54.6
20	10 49 17.77 4 36.49	9 2 45.6 28 34.1	0.22 1876	719 0 55.3
21	10 53 54.26 4 35.75	8 34 11.5 28 47.8	0.22 1157	732 0 55.9
22	10 58 30.01 4 35.04	+ 8 5 23.7 29 0.9	0.22 0425	747 0 56.6
23	11 3 5.05 4 34.38	7 36 22.8 29 13.1	0.21 9678	762 0 57.2
24	11 7 39.43 4 33.74	7 7 9.7 29 24.7	0.21 8916	775 0 57.8
25	11 12 13.17 4 33.15	6 37 45.0 29 35.5	0.21 8141	787 0 58.5
26	11 16 46.32 4 32.60	6 8 9.5 29 45.7	0.21 7354	801 0 59.1
27	11 21 18.92 4 32.08	5 38 23.8 29 55.1	0.21 6553	816 0 59.7
28	11 25 51.00 4 31.61	+ 5 8 28.7 30 3.8	0.21 5737	829 I 0.3
29	11 30 22.61 4 31.17	4 38 24.9 30 11.8	0.21 4908	842 I 0.8
30	11 34 53.78 4 30.78	4 8 13.1 30 19.1	0.21 4066	856 I 1.4
31	11 39 24.56 4 30.44	3 37 54.0 30 25.6	0.21 3210	869 I 2.0
Sept. 1	11 43 55.00 4 30.13	3 7 28.4 30 31.5	0.21 2341	883 I 2.6
2	11 48 25.13	2 36 56.9	0.21 1458	I 3.1

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination			
1920					
Sept. 2	11 <sup>h</sup> 48 <sup>m</sup> 25.13 <sup>s</sup> <small>4 29.87</small>	+ 2° 36' 56.9" <small>30 36.7</small>	0.21 1458 <small>896</small>	1 <sup>h</sup> 3.1 <sup>m</sup>	
3	11 52 55.00 <small>4 29.65</small>	2 6 20.2 <small>30 41.1</small>	0.21 0562 <small>909</small>	I 3.7	
4	11 57 24.65 <small>4 29.48</small>	I 35 39.1 <small>30 44.8</small>	0.20 9653 <small>922</small>	I 4.2	
5	12 I 54.13 <small>4 29.35</small>	I 4 54.3 <small>30 47.9</small>	0.20 8731 <small>936</small>	I 4.8	
6	12 6 23.48 <small>4 29.27</small>	o 34 6.4 <small>30 50.1</small>	0.20 7795 <small>950</small>	I 5.3	
7	12 10 52.75 <small>4 29.22</small>	+ o 3 16.3 <small>30 51.6</small>	0.20 6845 <small>963</small>	I 5.9	
8	12 15 21.97 <small>4 29.22</small>	— o 27 35.3 <small>30 52.5</small>	0.20 5882 <small>977</small>	I 6.4	
9	12 19 51.19 <small>4 29.27</small>	o 58 27.8 <small>30 52.7</small>	0.20 4905 <small>991</small>	I 7.0	
10	12 24 20.46 <small>4 29.34</small>	I 29 20.5 <small>30 52.0</small>	0.20 3914 <small>1004</small>	I 7.5	
11	12 28 49.80 <small>4 29.47</small>	2 o 12.5 <small>30 50.6</small>	0.20 2910 <small>1019</small>	I 8.1	
12	12 33 19.27 <small>4 29.63</small>	2 31 3.1 <small>30 48.6</small>	0.20 1891 <small>1032</small>	I 8.6	
13	12 37 48.90 <small>4 29.84</small>	3 I 51.7 <small>30 45.7</small>	0.20 0859 <small>1046</small>	I 9.2	
14	12 42 18.74 <small>4 30.08</small>	— 3 32 37.4 <small>30 42.1</small>	0.19 9813 <small>1060</small>	I 9.7	
15	12 46 48.82 <small>4 30.37</small>	4 3 19.5 <small>30 37.8</small>	0.19 8753 <small>1075</small>	I 10.3	
16	12 51 19.19 <small>4 30.69</small>	4 33 57.3 <small>30 32.7</small>	0.19 7678 <small>1088</small>	I 10.8	
17	12 55 49.88 <small>4 31.05</small>	5 4 30.0 <small>30 26.9</small>	0.19 6590 <small>1101</small>	I 11.4	
18	13 o 20.93 <small>4 31.47</small>	5 34 56.9 <small>30 20.3</small>	0.19 5489 <small>1115</small>	I 12.0	
19	13 4 52.40 <small>4 31.91</small>	6 5 17.2 <small>30 13.1</small>	0.19 4374 <small>1130</small>	I 12.6	
20	13 9 24.31 <small>4 32.39</small>	— 6 35 30.3 <small>30 5.0</small>	0.19 3244 <small>1143</small>	I 13.2	
21	13 13 56.70 <small>4 32.92</small>	7 5 35.3 <small>29 56.3</small>	0.19 2101 <small>1156</small>	I 13.8	
22	13 18 29.62 <small>4 33.49</small>	7 35 31.6 <small>29 46.7</small>	0.19 0945 <small>1170</small>	I 14.4	
23	13 23 3.11 <small>4 34.08</small>	8 5 18.3 <small>29 36.5</small>	0.18 9775 <small>1184</small>	I 15.0	
24	13 27 37.19 <small>4 34.73</small>	8 34 54.8 <small>29 25.4</small>	0.18 8591 <small>1197</small>	I 15.6	
25	13 32 11.92 <small>4 35.42</small>	9 4 20.2 <small>29 13.8</small>	0.18 7394 <small>1210</small>	I 16.2	
26	13 36 47.34 <small>4 36.13</small>	— 9 33 34.0 <small>29 1.1</small>	0.18 6184 <small>1224</small>	I 16.9	
27	13 41 23.47 <small>4 36.90</small>	10 2 35.1 <small>28 48.0</small>	0.18 4960 <small>1238</small>	I 17.5	
28	13 46 o.37 <small>4 37.69</small>	10 31 23.1 <small>28 33.9</small>	0.18 3722 <small>1250</small>	I 18.2	
29	13 50 38.06 <small>4 38.52</small>	10 59 57.0 <small>28 19.1</small>	0.18 2472 <small>1264</small>	I 18.9	
30	13 55 16.58 <small>4 39.40</small>	11 28 16.1 <small>28 3.6</small>	0.18 1208 <small>1277</small>	I 19.6	
Okt. 1	13 59 55.98 <small>4 40.30</small>	11 56 19.7 <small>27 47.2</small>	0.17 9931 <small>1290</small>	I 20.3	
2	14 4 36.28 <small>4 41.24</small>	— 12 24 6.9 <small>27 30.2</small>	0.17 8641 <small>1303</small>	I 21.1	
3	14 9 17.52 <small>4 42.21</small>	12 51 37.1 <small>27 12.4</small>	0.17 7338 <small>1318</small>	I 21.8	
4	14 13 59.73 <small>4 43.22</small>	13 18 49.5 <small>26 53.8</small>	0.17 6020 <small>1331</small>	I 22.6	
5	14 18 42.95 <small>4 44.25</small>	13 45 43.3 <small>26 34.3</small>	0.17 4689 <small>1344</small>	I 23.3	
6	14 23 27.20 <small>4 45.32</small>	14 12 17.6 <small>26 14.2</small>	0.17 3345 <small>1358</small>	I 24.1	
7	14 28 12.52 <small>4 46.39</small>	14 38 31.8 <small>25 53.3</small>	0.17 1987 <small>1372</small>	I 25.0	
8	14 32 58.91 <small>4 47.51</small>	— 15 4 25.1 <small>25 31.6</small>	0.17 0615 <small>1386</small>	I 25.8	
9	14 37 46.42 <small>4 48.63</small>	15 29 56.7 <small>25 9.0</small>	0.16 9229 <small>1401</small>	I 26.6	
10	14 42 35.05 <small>4 49.78</small>	15 55 5.7 <small>24 45.7</small>	0.16 7828 <small>1414</small>	I 27.5	
11	14 47 24.83 <small>4 50.94</small>	16 19 51.4 <small>24 21.6</small>	0.16 6414 <small>1429</small>	I 28.4	
12	14 52 15.77 <small>4 52.12</small>	16 44 13.0 <small>23 56.7</small>	0.16 4985 <small>1444</small>	I 29.3	
13	14 57 7.89	17 8 9.7	0.16 3541	I 30.2	

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		
1920					
Okt. 13	14 <sup>h</sup> 57 <sup>m</sup> 7.89 <sup>s</sup>	4 <sup>m</sup> 53.29 <sup>s</sup>	−17° 8' 9.7"	0.16 3541	1458 I 30.2
14	15 2 1.18	4 54.50	17 31 40.7	0.16 2083	1473 I 31.2
15	15 6 55.68	4 55.70	17 54 45.2	0.16 0610	1488 I 32.1
16	15 11 51.38	4 56.90	18 17 22.5	0.15 9122	1502 I 33.1
17	15 16 48.28	4 58.11	18 39 31.7	0.15 7620	1517 I 34.1
18	15 21 46.39	4 59.32	19 1 12.2	0.15 6103	1532 I 35.2
19	15 26 45.71	5 0.53	−19 22 23.1	0.15 4571	1546 I 36.2
20	15 31 46.24	5 1.73	19 43 3.7	0.15 3025	1561 I 37.3
21	15 36 47.97	5 2.92	20 3 13.2	0.15 1464	1576 I 38.4
22	15 41 50.89	5 4.12	20 22 50.9	0.14 9888	1591 I 39.5
23	15 46 55.01	5 5.29	20 41 56.0	0.14 8297	1606 I 40.6
24	15 52 0.30	5 6.45	21 0 27.9	0.14 6691	1620 I 41.8
25	15 57 6.75	5 7.60	−21 18 25.9	0.14 5071	1635 I 42.9
26	16 2 14.35	5 8.73	21 35 49.1	0.14 3436	1650 I 44.1
27	16 7 23.08	5 9.84	21 52 37.0	0.14 1786	1665 I 45.3
28	16 12 32.92	5 10.92	22 8 49.0	0.14 0121	1680 I 46.5
29	16 17 43.84	5 11.99	22 24 24.2	0.13 8441	1695 I 47.8
30	16 22 55.83	5 13.01	22 39 22.1	0.13 6746	1709 I 49.0
31	16 28 8.84	5 14.03	−22 53 42.1	0.13 5037	1725 I 50.3
Nov. 1	16 33 22.87	5 14.99	23 7 23.6	0.13 3312	1740 I 51.6
2	16 38 37.86	5 15.92	23 20 26.0	0.13 1572	1756 I 52.9
3	16 43 53.78	5 16.82	23 32 48.7	0.12 9816	1771 I 54.2
4	16 49 10.60	5 17.67	23 44 31.2	0.12 8045	1787 I 55.6
5	16 54 28.27	5 18.47	23 55 33.1	0.12 6258	1803 I 56.9
6	16 59 46.74	5 19.21	−24 5 53.7	0.12 4455	1820 I 58.3
7	17 5 5.95	5 19.92	24 15 32.6	0.12 2635	1836 I 59.7
8	17 10 25.87	5 20.55	24 24 29.4	0.12 0799	1853 2 1.1
9	17 15 46.42	5 21.14	24 32 43.7	0.11 8946	1870 2 2.5
10	17 21 7.56	5 21.65	24 40 15.0	0.11 7076	1886 2 3.9
11	17 26 29.21	5 22.10	24 47 3.1	0.11 5190	1904 2 5.3
12	17 31 51.31	5 22.49	−24 53 7.7	0.11 3286	1922 2 6.7
13	17 37 13.80	5 22.81	24 58 28.4	0.11 1364	1939 2 8.2
14	17 42 36.61	5 23.06	25 3 5.0	0.10 9425	1957 2 9.6
15	17 47 59.67	5 23.23	25 6 57.2	0.10 7468	1975 2 11.1
16	17 53 22.90	5 23.34	25 10 5.0	0.10 5493	1993 2 12.5
17	17 58 46.24	5 23.38	25 12 28.2	0.10 3500	2011 2 14.0
18	18 4 9.62	5 23.35	−25 14 6.5	0.10 1489	2029 2 15.4
19	18 9 32.97	5 23.23	25 15 0.1	0.09 9460	2048 2 16.9
20	18 14 56.20	5 23.05	25 15 8.7	0.09 7412	2067 2 18.3
21	18 20 19.25	5 22.79	25 14 32.4	0.09 5345	2085 2 19.7
22	18 25 42.04	5 22.47	25 13 11.3	0.09 3260	2103 2 21.2
23	18 31 4.51		25 11 5.4	0.09 1157	2117 2 22.6



Tag	O <sup>h</sup> mittlere Zeit Greenwich						Obere Kul- mination in Green- wich
	Scheinbare Rektaszension			Scheinbare Deklination			
1920							
Nov. 23	18 <sup>h</sup> 31 <sup>m</sup> 4.5 <sup>s</sup> I	5 <sup>m</sup> 22.06	—25° 11' 5.4"	2 50.7	0.09 1157	2123	2 <sup>h</sup> 22.6 <sup>m</sup>
24	18 36 26.57	5 21.60	25 8 14.7	3 35.2	0.08 9034	2141	2 24.0
25	18 41 48.17	5 21.06	25 4 39.5	4 19.6	0.08 6893	2160	2 25.4
26	18 47 9.23	5 20.46	25 0 19.9	5 3.8	0.08 4733	2179	2 26.9
27	18 52 29.69	5 19.79	24 55 16.1	5 47.8	0.08 2554	2198	2 28.3
28	18 57 49.48	5 19.07	24 49 28.3	6 31.6	0.08 0356	2218	2 29.6
29	19 3 8.55	5 18.27	—24 42 56.7	7 14.9	0.07 8138	2237	2 31.0
30	19 8 26.82	5 17.43	24 35 41.8	7 58.2	0.07 5901	2257	2 32.4
Dez. 1	19 13 44.25	5 16.53	24 27 43.6	8 40.7	0.07 3644	2277	2 33.7
2	19 19 0.78	5 15.56	24 19 2.9	9 23.3	0.07 1367	2298	2 35.1
3	19 24 16.34	5 14.54	24 9 39.6	10 5.1	0.06 9069	2318	2 36.4
4	19 29 30.88	5 13.48	23 59 34.5	10 46.6	0.06 6751	2339	2 37.7
5	19 34 44.36	5 12.35	—23 48 47.9	11 27.7	0.06 4412	2361	2 39.0
6	19 39 56.71	5 11.17	23 37 20.2	12 8.1	0.06 2051	2383	2 40.2
7	19 45 7.88	5 9.94	23 25 12.1	12 48.1	0.05 9668	2404	2 41.5
8	19 50 17.82	5 8.68	23 12 24.0	13 27.4	0.05 7264	2427	2 42.7
9	19 55 26.50	5 7.35	22 58 56.6	14 6.3	0.05 4837	2450	2 43.9
10	20 0 33.85	5 5.99	22 44 50.3	14 44.5	0.05 2387	2473	2 45.1
11	20 5 39.84	5 4.59	—22 30 5.8	15 22.1	0.04 9914	2497	2 46.2
12	20 10 44.43	5 3.15	22 14 43.7	15 59.0	0.04 7417	2520	2 47.4
13	20 15 47.58	5 1.67	21 58 44.7	16 35.2	0.04 4897	2544	2 48.5
14	20 20 49.25	5 0.16	21 42 9.5	17 10.8	0.04 2353	2568	2 49.5
15	20 25 49.41	4 58.63	21 24 58.7	17 45.7	0.03 9785	2594	2 50.6
16	20 30 48.04	4 57.06	21 7 13.0	18 19.8	0.03 7191	2618	2 51.6
17	20 35 45.10	4 55.45	—20 48 53.2	18 53.3	0.03 4573	2643	2 52.6
18	20 40 40.55	4 53.84	20 29 59.9	19 25.9	0.03 1930	2669	2 53.6
19	20 45 34.39	4 52.21	20 10 34.0	19 57.9	0.02 9261	2695	2 54.6
20	20 50 26.60	4 50.55	19 50 36.1	20 29.1	0.02 6566	2720	2 55.5
21	20 55 17.15	4 48.89	19 30 7.0	20 59.5	0.02 3846	2747	2 56.4
22	21 0 6.04	4 47.20	19 9 7.5	21 29.1	0.02 1099	2773	2 57.3
23	21 4 53.24	4 45.51	—18 47 38.4	21 57.9	0.01 8326	2800	2 58.1
24	21 9 38.75	4 43.81	18 25 40.5	22 26.1	0.01 5526	2826	2 58.9
25	21 14 22.56	4 42.12	18 3 14.4	22 53.5	0.01 2700	2854	2 59.7
26	21 19 4.68	4 40.43	17 40 20.9	23 20.0	0.00 9846	2881	3 0.5
27	21 23 45.11	4 38.74	17 17 0.9	23 45.9	0.00 6965	2908	3 1.2
28	21 28 23.85	4 37.05	16 53 15.0	24 10.7	0.00 4057	2936	3 1.9
29	21 33 0.90	4 35.37	—16 29 4.3	24 35.0	0.00 1121	2965	3 2.6
30	21 37 36.27	4 33.70	16 4 29.3	24 58.5	9.99 8156	2994	3 3.2
31	21 42 9.97	4 32.04	15 39 30.8	25 21.1	9.99 5162	3023	3 3.8
32	21 46 42.01		15 14 9.7		9.99 2139		3 4.4

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
Jan. 0	13 <sup>h</sup> 2 <sup>m</sup> 55.38 <sup>s</sup> 1 <sup>m</sup> 49.25 <sup>s</sup>	— 4 <sup>°</sup> 36' 23.8"    10 48.9"	0.16 9649	18 <sup>h</sup> 25.8 <sup>m</sup>
1	13 4 44.63    1 48.72	4 47 12.7    10 43.7	0.16 6695    2954	18 23.7
2	13 6 33.35    1 48.16	4 57 56.4    10 38.3	0.16 3717    3004	18 21.6
3	13 8 21.51    1 47.61	5 8 34.7    10 32.8	0.16 0713    3029	18 19.4
4	13 10 9.12    1 47.04	5 19 7.5    10 27.3	0.15 7684    3055	18 17.3
5	13 11 56.16    1 46.46	5 29 34.8    10 21.7	0.15 4629    3080	18 15.1
6	13 13 42.62    1 45.87	— 5 39 56.5    10 15.9	0.15 1549    3106	18 12.9
7	13 15 28.49    1 45.26	5 50 12.4    10 10.2	0.14 8443    3133	18 10.8
8	13 17 13.75    1 44.64	6 0 22.6    10 4.2	0.14 5310    3159	18 8.6
9	13 18 58.39    1 44.00	6 10 26.8    9 58.3	0.14 2151    3185	18 6.4
10	13 20 42.39    1 43.34	6 20 25.1    9 52.1	0.13 8966    3212	18 4.2
11	13 22 25.73    1 42.67	6 30 17.2    9 45.9	0.13 5754    3239	18 1.9
12	13 24 8.40    1 41.97	— 6 40 3.1    9 39.6	0.13 2515    3266	17 59.7
13	13 25 50.37    1 41.26	6 49 42.7    9 33.2	0.12 9249    3292	17 57.4
14	13 27 31.63    1 40.51	6 59 15.9    9 26.6	0.12 5957    3320	17 55.2
15	13 29 12.14    1 39.77	7 8 42.5    9 20.0	0.12 2637    3347	17 52.9
16	13 30 51.91    1 38.98	7 18 2.5    9 13.2	0.11 9290    3374	17 50.6
17	13 32 30.89    1 38.19	7 27 15.7    9 6.4	0.11 5916    3401	17 48.3
18	13 34 9.08    1 37.36	— 7 36 22.1    8 59.5	0.11 2515    3427	17 46.0
19	13 35 46.44    1 36.52	7 45 21.6    8 52.6	0.10 9088    3455	17 43.7
20	13 37 22.96    1 35.66	7 54 14.2    8 45.5	0.10 5633    3481	17 41.4
21	13 38 58.62    1 34.77	8 2 59.7    8 38.3	0.10 2152    3508	17 39.0
22	13 40 33.39    1 33.86	8 11 38.0    8 31.0	0.09 8644    3535	17 36.6
23	13 42 7.25    1 32.93	8 20 9.0    8 23.7	0.09 5109    3662	17 34.2
24	13 43 40.18    1 31.98	— 8 28 32.7    8 16.4	0.09 1447    3487	17 31.8
25	13 45 12.16    1 30.99	8 36 49.1    8 8.9	0.08 7960    3614	17 29.4
26	13 46 43.15    1 30.01	8 44 58.0    8 1.3	0.08 4346    3640	17 27.0
27	13 48 13.16    1 28.98	8 52 59.3    7 53.8	0.08 0706    3666	17 24.5
28	13 49 42.14    1 27.94	9 0 53.1    7 46.0	0.07 7040    3692	17 22.1
29	13 51 10.08    1 26.88	9 8 39.1    7 38.4	0.07 3348    3718	17 19.6
30	13 52 36.96    1 25.79	— 9 16 17.5    7 30.5	0.06 9630    3743	17 17.1
31	13 54 2.75    1 24.69	9 23 48.0    7 22.6	0.06 5887    3769	17 14.6
Febr. 1	13 55 27.44    1 23.54	9 31 10.6    7 14.8	0.06 2118    3795	17 12.0
2	13 56 50.98    1 22.38	9 38 25.4    7 6.6	0.05 8323    3820	17 9.5
3	13 58 13.36    1 21.18	9 45 32.0    6 58.6	0.05 4593    3846	17 6.9
4	13 59 34.54    1 19.96	9 52 30.6    6 50.4	0.05 0657    3872	17 4.3
5	14 0 54.50    1 18.69	— 9 59 21.0    6 42.0	0.04 6785    3897	17 1.7
6	14 2 13.19    1 17.41	10 6 3.0    6 33.6	0.04 2888    3922	16 59.0
7	14 3 30.60    1 16.07	10 12 36.6    6 25.1	0.03 8966    3948	16 56.3
8	14 4 46.67    1 14.69	10 19 1.7    6 16.5	0.03 5018    3972	16 53.6
9	14 6 1.36    1 13.29	10 25 18.2    6 7.7	0.03 1046    3997	16 50.9
10	14 7 14.65	10 31 25.9	0.02 7049	16 48.2

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1920					
Febr. 10	14 <sup>h</sup> 7 <sup>m</sup> 14.65 <sup>s</sup> 1 <sup>m</sup> 11.84 <sup>s</sup>	-10° 31' 25.9"	5 58.9	0.02 7049	16 <sup>h</sup> 48.2
11	14 8 26.49 1 10.35	10 37 24.8	5 50.0	0.02 3027	16 45.5
12	14 9 36.84 1 8.82	10 43 14.8	5 41.0	0.01 8982	16 42.7
13	14 10 45.66 1 7.25	10 48 55.8	5 31.9	0.01 4913	16 39.9
14	14 11 52.91 1 5.63	10 54 27.7	5 22.7	0.01 0821	16 37.1
15	14 12 58.54 1 3.98	10 59 50.4	5 13.3	0.00 6707	16 34.2
16	14 14 2.52 1 2.28	-11 5 3.7	5 4.0	0.00 2571	16 31.3
17	14 15 4.80 1 0.53	11 10 7.7	4 54.4	9.99 8414	16 28.4
18	14 16 5.33 0 58.75	11 15 2.1	4 44.8	9.99 4236	16 25.4
19	14 17 4.08 0 56.92	11 19 46.9	4 35.2	9.99 0039	16 22.4
20	14 18 1.00 0 55.04	11 24 22.1	4 25.3	9.98 5823	16 19.4
21	14 18 56.04 0 53.13	11 28 47.4	4 15.6	9.98 1590	16 16.4
22	14 19 49.17 0 51.17	-11 33 3.0	4 5.6	9.97 7339	16 13.3
23	14 20 40.34 0 49.19	11 37 8.6	3 55.7	9.97 3073	16 10.2
24	14 21 29.53 0 47.15	11 41 4.3	3 45.5	9.96 8792	16 7.1
25	14 22 16.68 0 45.07	11 44 49.8	3 35.4	9.96 4497	16 3.9
26	14 23 1.75 0 42.96	11 48 25.2	3 25.2	9.96 0190	16 0.7
27	14 23 44.71 0 40.81	11 51 50.4	3 14.8	9.95 5871	15 57.5
28	14 24 25.52 0 38.60	-11 55 5.2	3 4.5	9.95 1540	15 54.2
29	14 25 4.12 0 36.37	11 58 9.7	2 54.0	9.94 7201	15 50.9
März 1	14 25 40.49 0 34.09	12 1 3.7	2 43.5	9.94 2854	15 47.5
2	14 26 14.58 0 31.76	12 3 47.2	2 32.7	9.93 8500	15 44.1
3	14 26 46.34 0 29.37	12 6 19.9	2 22.0	9.93 4140	15 40.7
4	14 27 15.71 0 26.95	12 8 41.9	2 11.1	9.92 9775	15 37.2
5	14 27 42.66 0 24.47	-12 10 53.0	2 0.1	9.92 5408	15 33.7
6	14 28 7.13 0 21.95	12 12 53.1	1 48.9	9.92 1039	15 30.1
7	14 28 29.08 0 19.38	12 14 42.0	1 37.8	9.91 6670	15 26.5
8	14 28 48.46 0 16.76	12 16 19.8	1 26.3	9.91 2304	15 22.9
9	14 29 5.22 0 14.08	12 17 46.1	1 14.9	9.90 7942	15 19.2
10	14 29 19.30 0 11.37	12 19 1.0	1 3.3	9.90 3586	15 15.5
11	14 29 30.67 0 8.59	-12 20 4.3	0 51.7	9.89 9238	15 11.7
12	14 29 39.26 0 5.78	12 20 56.0	0 39.8	9.89 4902	15 7.9
13	14 29 45.04 0 2.93	12 21 35.8	0 27.9	9.89 0578	15 4.0
14	14 29 47.97 0 0.05	12 22 3.7	0 15.9	9.88 6271	15 0.1
15	14 29 48.02 0 2.89	12 22 19.6	0 3.9	9.88 1982	14 56.1
16	14 29 45.13 0 5.84	12 22 23.5	0 8.3	9.87 7715	14 52.1
17	14 29 39.29 0 8.83	-12 22 15.2	0 20.4	9.87 3473	14 48.1
18	14 29 30.46 0 11.84	12 21 54.8	0 32.7	9.86 9258	14 44.0
19	14 29 18.62 0 14.87	12 21 22.1	0 44.9	9.86 5075	14 39.8
20	14 29 3.75 0 17.92	12 20 37.2	0 57.2	9.86 0926	14 35.6
21	14 28 45.83 0 20.98	12 19 40.0	1 9.6	9.85 6816	14 31.3
22	14 28 24.85	12 18 30.4		9.85 2747	14 27.0

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
März 22	14 <sup>h</sup> 28 <sup>m</sup> 24.85 0 24.04	-12° 18' 30.4 1' 21.8"	9.85 2747 4023	14 <sup>h</sup> 27.0
23	14 28 0.81 0 27.08	12 17 8.6 1 34.1	9.84 8724 3974	14 22.7
24	14 27 33.73 0 30.13	12 15 34.5 1 46.2	9.84 4750 3921	14 18.3
25	14 27 3.60 0 33.16	12 13 48.3 1 58.5	9.84 0829 3865	14 13.8
26	14 26 30.44 0 36.17	12 11 49.8 2 10.5	9.83 6964 3805	14 9.3
27	14 25 54.27 0 39.17	12 9 39.3 2 22.6	9.83 3159 3740	14 4.7
28	14 25 15.10 0 42.14	-12 7 16.7 2 34.5	9.82 9419 3673	14 0.1
29	14 24 32.96 0 45.06	12 4 42.2 2 46.3	9.82 5746 3601	13 55.5
30	14 23 47.90 0 47.96	12 1 55.9 2 58.0	9.82 2145 3525	13 50.8
31	14 22 59.94 0 50.83	11 58 57.9 3 9.5	9.81 8620 3446	13 46.0
April 1	14 22 9.11 0 53.64	11 55 48.4 3 20.8	9.81 5174 3363	13 41.2
2	14 21 15.47 0 56.41	11 52 27.6 3 32.1	9.81 1811 3275	13 36.4
3	14 20 19.06 0 59.11	-11 48 55.5 3 43.0	9.80 8536 3183	13 31.5
4	14 19 19.95 1 1.77	11 45 12.5 3 53.8	9.80 5353 3088	13 26.6
5	14 18 18.18 1 4.33	11 41 18.7 4 4.3	9.80 2265 2989	13 21.6
6	14 17 13.85 1 6.83	11 37 14.4 4 14.4	9.79 9276 2885	13 16.6
7	14 16 7.02 1 9.24	11 33 0.0 4 24.2	9.79 6391 2776	13 11.5
8	14 14 57.78 1 11.56	11 28 35.8 4 33.6	9.79 3615 2665	13 6.4
9	14 13 46.22 1 13.76	-11 24 2.2 4 42.6	9.79 0950 2548	13 1.3
10	14 12 32.46 1 15.85	11 19 19.6 4 51.1	9.78 8402 2429	12 56.1
11	14 11 16.61 1 17.83	11 14 28.5 4 59.2	9.78 5973 2306	12 50.9
12	14 9 58.78 1 19.68	11 9 29.3 5 6.7	9.78 3667 2178	12 45.6
13	14 8 39.10 1 21.38	11 4 22.6 5 13.5	9.78 1489 2049	12 40.4
14	14 7 17.72 1 22.95	10 59 9.1 5 20.0	9.77 9440 1914	12 35.1
15	14 5 54.77 1 24.36	-10 53 49.1 5 25.5	9.77 7526 1777	12 29.8
16	14 4 30.41 1 25.61	10 48 23.6 5 30.5	9.77 5749 1638	12 24.4
17	14 3 4.80 1 26.68	10 42 53.1 5 34.6	9.77 4111 1497	12 19.1
18	14 1 38.12 1 27.59	10 37 18.5 5 38.0	9.77 2614 1352	12 13.7
19	14 0 10.53 1 28.32	10 31 40.5 5 40.6	9.77 1262 1207	12 8.3
20	13 58 42.21 1 28.86	10 25 59.9 5 42.4	9.77 0055 1060	12 2.9
21	13 57 13.35 1 29.23	-10 20 17.5 5 43.3	9.76 8995 912	11 57.5
22	13 55 44.12 1 29.39	10 14 34.2 5 43.4	9.76 8083 764	11 52.1
23	13 54 14.73 1 29.39	10 8 50.8 5 42.7	9.76 7319 615	11 46.7
24	13 52 45.34 1 29.20	10 3 8.1 5 41.0	9.76 6704 468	11 41.3
25	13 51 16.14 1 28.84	9 57 27.1 5 38.5	9.76 6236 320	11 35.9
26	13 49 47.30 1 28.31	9 51 48.6 5 35.3	9.76 5916 173	11 30.5
27	13 48 18.99 1 27.61	-9 46 13.3 5 31.3	9.76 5743 28	11 25.1
28	13 46 51.38 1 26.75	9 40 42.0 5 26.3	9.76 5715 117	11 19.7
29	13 45 24.63 1 25.74	9 35 15.7 5 20.6	9.76 5832 258	11 14.3
30	13 43 58.89 1 24.57	9 29 55.1 5 14.1	9.76 6090 400	11 9.0
Mai 1	13 42 34.32 1 23.23	9 24 41.0 5 6.9	9.76 6490 538	11 3.7
2	13 41 11.09	9 19 34.1	9.76 7028	10 58.4

Tag	O <sup>b</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1920					
Mai 2	13 <sup>h</sup> 41 <sup>m</sup> 11.09 <sup>s</sup> 1 21.77	-9° 19' 34.1" 4 58.9	9.76 7028 674	10 <sup>h</sup> 58.4 <sup>m</sup>	
3	13 39 49.32 1 20.17	9 14 35.2 4 50.2	9.76 7702 808	10 53.1	
4	13 38 29.15 1 18.41	9 9 45.0 4 40.8	9.76 8510 940	10 47.8	
5	13 37 10.74 1 16.56	9 5 4.2 4 30.8	9.76 9450 1066	10 42.6	
6	13 35 54.18 1 14.56	9 0 33.4 4 20.0	9.77 0516 1193	10 37.4	
7	13 34 39.62 1 12.47	8 56 13.4 4 8.8	9.77 1709 1315	10 32.3	
8	13 33 27.15 1 10.24	-8 52 4.6 3 56.8	9.77 3024 1433	10 27.2	
9	13 32 16.91 1 7.92	8 48 7.8 3 44.3	9.77 4457 1549	10 22.1	
10	13 31 8.99 1 5.49	8 44 23.5 3 31.2	9.77 6006 1661	10 17.1	
11	13 30 3.50 1 2.97	8 40 52.3 3 17.8	9.77 7667 1769	10 12.1	
12	13 29 0.53 1 0.37	8 37 34.5 3 3.7	9.77 9436 1873	10 7.1	
13	13 28 0.16 0 57.69	8 34 30.8 2 49.4	9.78 1309 1974	10 2.2	
14	13 27 2.47 0 54.91	-8 31 41.4 2 34.4	9.78 3283 2070	9 57.3	
15	13 26 7.56 0 52.08	8 29 7.0 2 19.3	9.78 5353 2164	9 52.5	
16	13 25 15.48 0 49.17	8 26 47.7 2 3.7	9.78 7517 2252	9 47.7	
17	13 24 26.31 0 46.22	8 24 44.0 1 48.0	9.78 9769 2336	9 43.0	
18	13 23 40.09 0 43.21	8 22 56.0 1 31.7	9.79 2105 2415	9 38.3	
19	13 22 56.88 0 40.17	8 21 24.3 1 15.4	9.79 4520 2492	9 33.7	
20	13 22 16.71 0 37.08	-8 20 8.9 0 58.9	9.79 7012 2563	9 29.1	
21	13 21 39.63 0 33.98	8 19 10.0 0 42.4	9.79 9575 2630	9 24.6	
22	13 21 5.65 0 30.86	8 18 27.6 0 25.6	9.80 2205 2692	9 20.1	
23	13 20 34.79 0 27.73	8 18 2.0 0 9.0	9.80 4897 2751	9 15.7	
24	13 20 7.06 0 24.61	8 17 53.0 0 7.7	9.80 7648 2806	9 11.3	
25	13 19 42.45 0 21.49	8 18 0.7 0 24.4	9.81 0454 2857	9 7.0	
26	13 19 20.96 0 18.37	-8 18 25.1 0 40.8	9.81 3311 2903	9 2.7	
27	13 19 2.59 0 15.28	8 19 5.9 0 57.4	9.81 6214 2948	8 58.5	
28	13 18 47.31 0 12.21	8 20 3.3 1 13.7	9.81 9162 2987	8 54.3	
29	13 18 35.10 0 9.15	8 21 17.0 1 30.0	9.82 2149 3025	8 50.2	
30	13 18 25.95 0 6.11	8 22 47.0 1 46.2	9.82 5174 3058	8 46.2	
31	13 18 19.84 0 3.10	8 24 33.2 2 2.1	9.82 8232 3090	8 42.2	
Juni 1	13 18 16.74 0 0.13	-8 26 35.3 2 17.9	9.83 1322 3118	8 38.2	
2	13 18 16.61 0 2.82	8 28 53.2 2 33.4	9.83 4440 3144	8 34.3	
3	13 18 19.43 0 5.74	8 31 26.6 2 48.9	9.83 7584 3166	8 30.4	
4	13 18 25.17 0 8.63	8 34 15.5 3 4.0	9.84 0750 3188	8 26.6	
5	13 18 33.80 0 11.48	8 37 19.5 3 19.0	9.84 3938 3205	8 22.8	
6	13 18 45.28 0 14.32	8 40 38.5 3 33.8	9.84 7143 3222	8 19.1	
7	13 18 59.60 0 17.11	-8 44 12.3 3 48.4	9.85 0365 3236	8 15.4	
8	13 19 16.71 0 19.87	8 48 0.7 4 2.7	9.85 3601 3248	8 11.8	
9	13 19 36.58 0 22.60	8 52 3.4 4 17.0	9.85 6849 3259	8 8.2	
10	13 19 59.18 0 25.30	8 56 20.4 4 30.8	9.86 0108 3266	8 4.7	
11	13 20 24.48 0 27.97	9 0 51.2 4 44.4	9.86 3374 3273	8 1.2	
12	13 20 52.45	9 5 35.6	9.86 6647	7 57.7	

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		
1920					
Juni 12	13 <sup>h</sup> 20 <sup>m</sup> 52.45 <sup>s</sup>	0 <sup>m</sup> 30.60 <sup>s</sup>	— 9° 5' 35.6"	9.86 6647	3278
13	13 21 23.05	0 33.20	9 10 33.5	9.86 9925	3280
14	13 21 56.25	0 35.78	9 15 44.6	9.87 3205	3282
15	13 22 32.03	0 38.33	9 21 8.8	9.87 6487	3282
16	13 23 10.36	0 40.83	9 26 45.7	9.87 9769	3279
17	13 23 51.19	0 43.31	9 32 35.1	9.88 3048	3276
18	13 24 34.50	0 45.74	— 9 38 36.6	9.88 6324	3271
19	13 25 20.24	0 48.14	9 44 50.1	9.88 9595	3264
20	13 26 8.38	0 50.48	9 51 15.4	9.89 2859	3257
21	13 26 58.86	0 52.79	9 57 51.9	9.89 6116	3247
22	13 27 51.65	0 55.05	10 4 39.5	9.89 9363	3237
23	13 28 46.70	0 57.28	10 11 37.8	9.90 2600	3225
24	13 29 43.98	0 59.46	— 10 18 46.5	9.90 5825	3214
25	13 30 43.44	1 1.59	10 26 5.3	9.90 9039	3201
26	13 31 45.03	1 3.70	10 33 33.9	9.91 2240	3187
27	13 32 48.73	1 5.75	10 41 12.0	9.91 5427	3174
28	13 33 54.48	1 7.79	10 48 59.4	9.91 8601	3159
29	13 35 2.27	1 9.78	10 56 55.8	9.92 1760	3143
30	13 36 12.05	1 11.73	— 11 5 0.7	9.92 4903	3129
Juli 1	13 37 23.78	1 13.65	11 13 14.0	9.92 8032	3112
2	13 38 37.43	1 15.55	11 21 35.5	9.93 1144	3096
3	13 39 52.98	1 17.40	11 30 4.7	9.93 4240	3080
4	13 41 10.38	1 19.25	11 38 41.5	9.93 7320	3062
5	13 42 29.63	1 21.05	11 47 25.7	9.94 0382	3046
6	13 43 50.68	1 22.84	— 11 56 17.0	9.94 3428	3029
7	13 45 13.52	1 24.60	12 5 15.0	9.94 6457	3011
8	13 46 38.12	1 26.34	12 14 19.5	9.94 9468	2994
9	13 48 4.46	1 28.05	12 23 30.4	9.95 2462	2976
10	13 49 32.51	1 29.74	12 32 47.3	9.95 5438	2958
11	13 51 2.25	1 31.43	12 42 10.0	9.95 8396	2940
12	13 52 33.68	1 33.09	— 12 51 38.3	9.96 1336	2922
13	13 54 6.77	1 34.73	13 1 12.0	9.96 4258	2903
14	13 55 41.50	1 36.35	13 10 50.8	9.96 7161	2884
15	13 57 17.85	1 37.96	13 20 34.5	9.97 0045	2865
16	13 58 55.81	1 39.55	13 30 22.9	9.97 2910	2845
17	14 0 35.36	1 41.11	13 40 15.6	9.97 5755	2826
18	14 2 16.47	1 42.66	— 13 50 12.5	9.97 8581	2805
19	14 3 59.13	1 44.17	14 0 13.3	9.98 1386	2785
20	14 5 43.30	1 45.67	14 10 17.7	9.98 4171	2765
21	14 7 28.97	1 47.14	14 20 25.4	9.98 6936	2745
22	14 9 16.11	1 48.60	14 30 36.1	9.98 9681	2724
23	14 11 4.71		14 40 49.7	9.99 2405	
					h m
					7 57.7
					7 54.3
					7 50.9
					7 47.6
					7 44.3
					7 41.1
					7 37.9
					7 34.7
					7 31.6
					7 28.5
					7 25.5
					7 22.5
					7 19.5
					7 16.6
					7 13.7
					7 10.8
					7 8.0
					7 5.2
					7 2.4
					6 59.7
					6 57.0
					6 54.3
					6 51.6
					6 49.0
					6 46.4
					6 43.9
					6 41.4
					6 38.9
					6 36.4
					6 34.0
					6 31.6
					6 29.2
					6 26.8
					6 24.5
					6 22.2
					6 20.0
					6 17.7
					6 15.5
					6 13.3
					6 11.1
					6 9.0
					6 6.9

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
Juli 23	14 <sup>h</sup> 11 <sup>m</sup> 4.71 <sup>s</sup> 1 <sup>m</sup> 50.02 <sup>s</sup>	−14° 40' 49.7" 10 16.2"	9.99 2405 2705	6 <sup>h</sup> 6.9 <sup>m</sup>
24	14 12 54.73 1 51.44	14 51 5.9 10 18.4	9.99 5110 2684	6 4.8
25	14 14 46.17 1 52.82	15 1 24.3 10 20.5	9.99 7794 2664	6 2.7
26	14 16 38.99 1 54.20	15 11 44.8 10 22.4	0.00 0458 2645	6 0.6
27	14 18 33.19 1 55.56	15 22 7.2 10 23.9	0.00 3103 2624	5 58.6
28	14 20 28.75 1 56.89	15 32 31.1 10 25.2	0.00 5727 2605	5 56.6
29	14 22 25.64 1 58.23	−15 42 56.3 10 26.3	0.00 8332 2586	5 54.6
30	14 24 23.87 1 59.53	15 53 22.6 10 27.1	0.01 0918 2566	5 52.6
31	14 26 23.40 2 0.84	16 3 49.7 10 27.6	0.01 3484 2548	5 50.7
Aug. 1	14 28 24.24 2 2.12	16 14 17.3 10 28.1	0.01 6032 2529	5 48.8
2	14 30 26.36 2 3.39	16 24 45.4 10 28.1	0.01 8561 2511	5 46.9
3	14 32 29.75 2 4.66	16 35 13.5 10 28.1	0.02 1072 2492	5 45.0
4	14 34 34.41 2 5.92	−16 45 41.6 10 27.7	0.02 3564 2474	5 43.1
5	14 36 40.33 2 7.18	16 56 9.3 10 27.2	0.02 6038 2456	5 41.3
6	14 38 47.51 2 8.42	17 6 36.5 10 26.4	0.02 8494 2439	5 39.5
7	14 40 55.93 2 9.66	17 17 2.9 10 25.4	0.03 0933 2422	5 37.7
8	14 43 5.59 2 10.89	17 27 28.3 10 24.3	0.03 3355 2404	5 35.9
9	14 45 16.48 2 12.13	17 37 52.6 10 22.8	0.03 5759 2386	5 34.2
10	14 47 28.61 2 13.35	−17 48 15.4 10 21.1	0.03 8145 2370	5 32.4
11	14 49 41.96 2 14.56	17 58 36.5 10 19.1	0.04 0515 2352	5 30.7
12	14 51 56.52 2 15.78	18 8 55.6 10 17.2	0.04 2867 2335	5 29.0
13	14 54 12.30 2 16.98	18 19 12.8 10 14.7	0.04 5202 2318	5 27.4
14	14 56 29.28 2 18.16	18 29 27.5 10 12.2	0.04 7520 2301	5 25.7
15	14 58 47.44 2 19.35	18 39 39.7 10 9.4	0.04 9821 2284	5 24.1
16	15 1 6.79 2 20.53	−18 49 49.1 10 6.4	0.05 2105 2266	5 22.5
17	15 3 27.32 2 21.68	18 59 55.5 10 3.0	0.05 4371 2250	5 20.9
18	15 5 49.00 2 22.83	19 9 58.5 9 59.4	0.05 6621 2233	5 19.3
19	15 8 11.83 2 23.97	19 19 57.9 9 55.7	0.05 8854 2216	5 17.7
20	15 10 35.80 2 25.08	19 29 53.6 9 51.7	0.06 1070 2199	5 16.2
21	15 13 0.88 2 26.20	19 39 45.3 9 47.3	0.06 3269 2183	5 14.7
22	15 15 27.08 2 27.29	−19 49 32.6 9 42.9	0.06 5452 2167	5 13.2
23	15 17 54.37 2 28.39	19 59 15.5 9 38.1	0.06 7619 2151	5 11.7
24	15 20 22.76 2 29.46	20 8 53.6 9 33.0	0.06 9770 2135	5 10.2
25	15 22 52.22 2 30.54	20 18 26.6 9 27.9	0.07 1905 2120	5 8.8
26	15 25 22.76 2 31.59	20 27 54.5 9 22.3	0.07 4025 2105	5 7.3
27	15 27 54.35 2 32.64	20 37 16.8 9 16.7	0.07 6130 2089	5 5.9
28	15 30 26.99 2 33.69	−20 46 33.5 9 10.8	0.07 8219 2076	5 4.5
29	15 33 0.68 2 34.72	20 55 44.3 9 4.6	0.08 0295 2060	5 3.2
30	15 35 35.40 2 35.74	21 4 48.9 8 58.3	0.08 2355 2047	5 1.8
31	15 38 11.14 2 36.77	21 13 47.2 8 51.7	0.08 4402 2033	5 0.5
Sept. 1	15 40 47.91 2 37.78	21 22 38.9 8 44.8	0.08 6435 2019	4 59.1
2	15 43 25.69	21 31 23.7	0.08 8454	4 57.8

Tag	0 <sup>h</sup> mittlere Zeit Greenwich						Obere Kulmination in Green- wich	
	Scheinbare Rektaszension			Scheinbare Deklination				log $\Delta$
1920								
Sept. 2	15 <sup>h</sup> 43 <sup>m</sup> 25.69 <sup>s</sup>	2 <sup>m</sup> 38.79 <sup>s</sup>	—21° 31'	23.7	8' 37.8"	0.08 8454	2006	4 <sup>h</sup> 57.8 <sup>m</sup>
3	15 46 4.48	2 39.79	21 40 1.5	8 30.5		0.09 0460	1994	4 56.5
4	15 48 44.27	2 40.79	21 48 32.0	8 22.9		0.09 2454	1980	4 55.2
5	15 51 25.06	2 41.79	21 56 54.9	8 15.2		0.09 4434	1968	4 54.0
6	15 54 6.85	2 42.78	22 5 10.1	8 7.2		0.09 6402	1955	4 52.7
7	15 56 49.63	2 43.76	22 13 17.3	7 59.1		0.09 8357	1942	4 51.5
8	15 59 33.39	2 44.75	—22 21 16.4	7 50.8		0.10 0299	1931	4 50.3
9	16 2 18.14	2 45.71	22 29 7.2	7 42.2		0.10 2230	1918	4 49.1
10	16 5 3.85	2 46.67	22 36 49.4	7 33.4		0.10 4148	1906	4 48.0
11	16 7 50.52	2 47.63	22 44 22.8	7 24.4		0.10 6054	1893	4 46.8
12	16 10 38.15	2 48.57	22 51 47.2	7 15.1		0.10 7947	1882	4 45.7
13	16 13 26.72	2 49.50	22 59 2.3	7 5.7		0.10 9829	1869	4 44.5
14	16 16 16.22	2 50.41	—23 6 8.0	6 55.9		0.11 1698	1857	4 43.4
15	16 19 6.63	2 51.32	23 13 3.9	6 46.1		0.11 3555	1846	4 42.3
16	16 21 57.95	2 52.21	23 19 50.0	6 35.9		0.11 5401	1834	4 41.2
17	16 24 50.16	2 53.07	23 26 25.9	6 25.7		0.11 7235	1822	4 40.1
18	16 27 43.23	2 53.93	23 32 51.6	6 15.1		0.11 9057	1810	4 39.1
19	16 30 37.16	2 54.78	23 39 6.7	6 4.4		0.12 0867	1800	4 38.1
20	16 33 31.94	2 55.60	—23 45 11.1	5 53.5		0.12 2667	1788	4 37.1
21	16 36 27.54	2 56.42	23 51 4.6	5 42.3		0.12 4455	1777	4 36.0
22	16 39 23.96	2 57.21	23 56 46.9	5 31.0		0.12 6232	1766	4 35.0
23	16 42 21.17	2 57.99	24 2 17.9	5 19.5		0.12 7998	1756	4 34.0
24	16 45 19.16	2 58.77	24 7 37.4	5 7.7		0.12 9754	1746	4 33.1
25	16 48 17.93	2 59.51	24 12 45.1	4 55.8		0.13 1500	1736	4 32.1
26	16 51 17.44	3 0.25	—24 17 40.9	4 43.7		0.13 3236	1726	4 31.2
27	16 54 17.69	3 0.98	24 22 24.6	4 31.5		0.13 4962	1717	4 30.2
28	16 57 18.67	3 1.68	24 26 56.1	4 19.0		0.13 6679	1707	4 29.3
29	17 0 20.35	3 2.38	24 31 15.1	4 6.4		0.13 8386	1698	4 28.4
30	17 3 22.73	3 3.07	24 35 21.5	3 53.5		0.14 0084	1690	4 27.5
Okt. 1	17 6 25.80	3 3.74	24 39 15.0	3 40.6		0.14 1774	1681	4 26.6
2	17 9 29.54	3 4.39	—24 42 55.6	3 27.4		0.14 3455	1672	4 25.7
3	17 12 33.93	3 5.05	24 46 23.0	3 14.2		0.14 5127	1664	4 24.9
4	17 15 38.98	3 5.68	24 49 37.2	3 0.6		0.14 6791	1656	4 24.0
5	17 18 44.66	3 6.30	24 52 37.8	2 47.1		0.14 8447	1649	4 23.2
6	17 21 50.96	3 6.91	24 55 24.9	2 33.3		0.15 0096	1640	4 22.3
7	17 24 57.87	3 7.50	24 57 58.2	2 19.5		0.15 1736	1632	4 21.5
8	17 28 5.37	3 8.08	—25 0 17.7	2 5.4		0.15 3368	1624	4 20.7
9	17 31 13.45	3 8.64	25 2 23.1	1 51.2		0.15 4992	1617	4 19.9
10	17 34 22.09	3 9.19	25 4 14.3	1 36.9		0.15 6609	1608	4 19.1
11	17 37 31.28	3 9.71	25 5 51.2	1 22.5		0.15 8217	1601	4 18.3
12	17 40 40.99	3 10.21	25 7 13.7	1 8.1		0.15 9818	1592	4 17.5
13	17 43 51.20		25 8 21.8			0.16 1410		4 16.7



Tag	0 <sup>h</sup> mittlere Zeit Greenwich			log $\Delta$	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1920					
Okt. 13	17 <sup>h</sup> 43 <sup>m</sup> 51. <sup>s</sup> 20	3 <sup>m</sup> 10. <sup>s</sup> 69	—25° 8' 21.8"	0.16 1410	4 <sup>h</sup> 16. <sup>m</sup> 7
14	17 47 1.89	3 11.16	25 9 15.2	0.16 2996	4 16.0
15	17 50 13.05	3 11.60	25 9 53.8	0.16 4573	4 15.2
16	17 53 24.65	3 12.01	25 10 17.6	0.16 6143	4 14.5
17	17 56 36.66	3 12.41	25 10 26.5	0.16 7706	4 13.7
18	17 59 49.07	3 12.78	25 10 20.3	0.16 9261	4 13.0
19	18 3 1.85	3 13.14	—25 9 59.0	0.17 0809	4 12.3
20	18 6 14.99	3 13.46	25 9 22.5	0.17 2350	4 11.5
21	18 9 28.45	3 13.78	25 8 30.8	0.17 3884	4 10.8
22	18 12 42.23	3 14.07	25 7 23.7	0.17 5411	4 10.1
23	18 15 56.30	3 14.33	25 6 1.2	0.17 6931	4 9.4
24	18 19 10.63	3 14.58	25 4 23.3	0.17 8445	4 8.7
25	18 22 25.21	3 14.80	—25 2 29.9	0.17 9953	4 8.0
26	18 25 40.01	3 15.01	25 0 20.9	0.18 1455	4 7.3
27	18 28 55.02	3 15.20	24 57 56.3	0.18 2951	4 6.6
28	18 32 10.22	3 15.37	24 55 16.1	0.18 4442	4 5.9
29	18 35 25.59	3 15.53	24 52 20.2	0.18 5926	4 5.3
30	18 38 41.12	3 15.65	24 49 8.6	0.18 7405	4 4.6
31	18 41 56.77	3 15.79	—24 45 41.3	0.18 8879	4 3.9
Nov. 1	18 45 12.56	3 15.88	24 41 58.3	0.19 0349	4 3.2
2	18 48 28.44	3 15.98	24 37 59.6	0.19 1813	4 2.5
3	18 51 44.42	3 16.06	24 33 45.1	0.19 3272	4 1.9
4	18 55 0.48	3 16.11	24 29 14.9	0.19 4727	4 1.2
5	18 58 16.59	3 16.16	24 24 28.9	0.19 6177	4 0.5
6	19 1 32.75	3 16.18	—24 19 27.3	0.19 7621	3 59.8
7	19 4 48.93	3 16.18	24 14 9.9	0.19 9061	3 59.2
8	19 8 5.11	3 16.18	24 8 37.0	0.20 0497	3 58.5
9	19 11 21.29	3 16.14	24 2 48.4	0.20 1927	3 57.8
10	19 14 37.43	3 16.10	23 56 44.2	0.20 3352	3 57.2
11	19 17 53.53	3 16.03	23 50 24.6	0.20 4773	3 56.5
12	19 21 9.56	3 15.95	—23 43 49.5	0.20 6188	3 55.8
13	19 24 25.51	3 15.84	23 36 59.1	0.20 7599	3 55.1
14	19 27 41.35	3 15.71	23 29 53.3	0.20 9005	3 54.4
15	19 30 57.06	3 15.58	23 22 32.4	0.21 0407	3 53.8
16	19 34 12.64	3 15.42	23 14 56.3	0.21 1803	3 53.1
17	19 37 28.06	3 15.24	23 7 5.2	0.21 3196	3 52.4
18	19 40 43.30	3 15.06	—22 58 59.2	0.21 4583	3 51.7
19	19 43 58.36	3 14.84	22 50 38.3	0.21 5966	3 51.0
20	19 47 13.20	3 14.62	22 42 2.7	0.21 7345	3 50.3
21	19 50 27.82	3 14.38	22 33 12.4	0.21 8719	3 49.6
22	19 53 42.20	3 14.13	22 24 7.6	0.22 0090	3 48.9
23	19 56 56.33	3 13.83	22 14 48.3	0.22 1456	3 48.2

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
Nov. 23	19 <sup>h</sup> 56 <sup>m</sup> 56.33 <sup>s</sup> 3 13.86	-22° 14' 48.3" 9 33.4	0.22 1456	3 <sup>h</sup> 48.2 <sup>m</sup>
24	20 0 10.19 3 13.59	22 5 14.9 9 47.7	0.22 2819	3 47.5
25	20 3 23.78 3 13.29	21 55 27.2 10 1.7	0.22 4178	3 46.8
26	20 6 37.07 3 13.00	21 45 25.5 10 15.6	0.22 5533	3 46.1
27	20 9 50.07 3 12.69	21 35 9.9 10 29.5	0.22 6884	3 45.3
28	20 13 2.76 3 12.38	21 24 40.4 10 43.1	0.22 8233	3 44.6
29	20 16 15.14 3 12.06	-21 13 57.3 10 56.6	0.22 9578	3 43.9
30	20 19 27.20 3 11.73	21 3 0.7 11 10.1	0.23 0920	3 43.1
Dez. 1	20 22 38.93 3 11.39	20 51 50.6 11 23.3	0.23 2259	3 42.4
2	20 25 50.32 3 11.06	20 40 27.3 11 36.4	0.23 3595	3 41.6
3	20 29 1.38 3 10.71	20 28 50.9 11 49.3	0.23 4928	3 40.9
4	20 32 12.09 3 10.36	20 17 1.6 12 2.2	0.23 6257	3 40.1
5	20 35 22.45 3 10.00	-20 4 59.4 12 14.9	0.23 7583	3 39.3
6	20 38 32.45 3 9.63	19 52 44.5 12 27.3	0.23 8906	3 38.6
7	20 41 42.08 3 9.27	19 40 17.2 12 39.6	0.24 0226	3 37.8
8	20 44 51.35 3 8.88	19 27 37.6 12 51.7	0.24 1542	3 37.0
9	20 48 0.23 3 8.50	19 14 45.9 13 3.6	0.24 2855	3 36.2
10	20 51 8.73 3 8.11	19 1 42.3 13 15.4	0.24 4164	3 35.4
11	20 54 16.84 3 7.71	-18 48 26.9 13 27.0	0.24 5470	3 34.6
12	20 57 24.55 3 7.31	18 34 59.9 13 38.3	0.24 6772	3 33.8
13	21 0 31.86 3 6.90	18 21 21.6 13 49.5	0.24 8071	3 32.9
14	21 3 38.76 3 6.48	18 7 32.1 14 0.4	0.24 9367	3 32.1
15	21 6 45.24 3 6.07	17 53 31.7 14 11.3	0.25 0658	3 31.3
16	21 9 51.31 3 5.64	17 39 20.4 14 21.8	0.25 1947	3 30.4
17	21 12 56.95 3 5.21	-17 24 58.6 14 32.2	0.25 3232	3 29.6
18	21 16 2.16 3 4.78	17 10 26.4 14 42.5	0.25 4514	3 28.7
19	21 19 6.94 3 4.34	16 55 43.9 14 52.5	0.25 5792	3 27.9
20	21 22 11.28 3 3.91	16 40 51.4 15 2.2	0.25 7067	3 27.0
21	21 25 15.19 3 3.48	16 25 49.2 15 11.8	0.25 8338	3 26.1
22	21 28 18.67 3 3.02	16 10 37.4 15 21.1	0.25 9607	3 25.2
23	21 31 21.69 3 2.59	-15 55 16.3 15 30.4	0.26 0872	3 24.3
24	21 34 24.28 3 2.15	15 39 45.9 15 39.4	0.26 2134	3 23.4
25	21 37 26.43 3 1.72	15 24 6.5 15 48.1	0.26 3394	3 22.5
26	21 40 28.15 3 1.29	15 8 18.4 15 56.8	0.26 4650	3 21.6
27	21 43 29.44 3 0.86	14 52 21.6 16 5.2	0.26 5904	3 20.7
28	21 46 30.30 3 0.43	14 36 16.4 16 13.4	0.26 7155	3 19.8
29	21 49 30.73 3 0.01	-14 20 3.0 16 21.4	0.26 8404	3 18.8
30	21 52 30.74 2 59.60	14 3 41.6 16 29.4	0.26 9650	3 17.9
31	21 55 30.34 2 59.19	13 47 12.2 16 37.0	0.27 0893	3 16.9
32	21 58 29.53	13 30 35.2	0.27 2133	3 16.0

Tag	O <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1920					
Jan. 0	9 <sup>h</sup> 18 <sup>m</sup> 59.00 <sup>s</sup> 0 <sup>m</sup> 39.83 <sup>s</sup>	+16° 29' 13.8"    3 29.3	0.65 3213	1819	14 <sup>h</sup> 40.9 <sup>m</sup>
2	9 18 19.17    0 42.37	16 32 43.1    3 39.7	0.65 1394	1730	14 32.4
4	9 17 36.80    0 44.81	16 36 22.8    3 49.6	0.64 9664	1638	14 23.8
6	9 16 51.99    0 47.14	16 40 12.4    3 59.1	0.64 8026	1542	14 15.2
8	9 16 4.85    0 49.38	16 44 11.5    4 7.7	0.64 6484	1441	14 6.5
10	9 15 15.47    0 51.48	16 48 19.2    4 15.8	0.64 5043	1337	13 57.8
12	9 14 23.99    0 53.46	+16 52 35.0    4 22.9	0.64 3706	1230	13 49.1
14	9 13 30.53    0 55.29	16 56 57.9    4 29.4	0.64 2476	1118	13 40.4
16	9 12 35.24    0 56.97	17 1 27.3    4 34.9	0.64 1358	1004	13 31.6
18	9 11 38.27    0 58.49	17 6 2.2    4 39.7	0.64 0354	886	13 22.8
20	9 10 39.78    0 59.83	17 10 41.9    4 43.5	0.63 9468	767	13 13.9
22	9 9 39.95    1 1.00	17 15 25.4    4 46.4	0.63 8701	644	13 5.1
24	9 8 38.95    1 1.97	+17 20 11.8    4 48.5	0.63 8057	520	12 56.2
26	9 7 36.98    1 2.77	17 25 0.3    4 49.4	0.63 7537	395	12 47.3
28	9 6 34.21    1 3.35	17 29 49.7    4 49.7	0.63 7142	268	12 38.4
30	9 5 30.86    1 3.77	17 34 39.4    4 49.0	0.63 6874	142	12 29.5
Febr. 1	9 4 27.09    1 3.98	17 39 28.4    4 47.6	0.63 6732	15	12 20.5
3	9 3 23.11    1 4.03	17 44 16.0    4 45.2	0.63 6717	112	12 11.6
5	9 2 19.08    1 3.88	+17 49 1.2    4 42.2	0.63 6829	238	12 2.7
7	9 1 15.20    1 3.56	17 53 43.4    4 38.4	0.63 7067	364	11 53.8
9	9 0 11.64    1 3.05	17 58 21.8    4 33.9	0.63 7431	488	11 44.8
11	8 59 8.59    1 2.36	18 2 55.7    4 28.5	0.63 7919	612	11 35.9
13	8 58 6.23    1 1.46	18 7 24.2    4 22.4	0.63 8531	735	11 27.0
15	8 57 4.77    1 0.39	18 11 46.6    4 15.6	0.63 9266	855	11 18.2
17	8 56 4.38    0 59.14	+18 16 2.2    4 8.2	0.64 0121	974	11 9.3
19	8 55 5.24    0 57.70	18 20 10.4    4 0.0	0.64 1095	1089	11 0.5
21	8 54 7.54    0 56.10	18 24 10.4    3 51.5	0.64 2184	1202	10 51.7
23	8 53 11.44    0 54.33	18 28 1.9    3 42.2	0.64 3386	1311	10 42.9
25	8 52 17.11    0 52.41	18 31 44.1    3 32.5	0.64 4697	1416	10 34.1
27	8 51 24.70    0 50.36	18 35 16.6    3 22.5	0.64 6113	1517	10 25.4
29	8 50 34.34    0 48.18	+18 38 39.1    3 12.2	0.64 7630	1616	10 16.7
März 2	8 49 46.16    0 45.87	18 41 51.3    3 1.4	0.64 9246	1708	10 8.0
4	8 49 0.29    0 43.47	18 44 52.7    2 50.4	0.65 0954	1798	9 59.4
6	8 48 16.82    0 40.96	18 47 43.1    2 39.2	0.65 2752	1883	9 50.9
8	8 47 35.86    0 38.37	18 50 22.3    2 27.7	0.65 4635	1965	9 42.3
10	8 46 57.49    0 35.69	18 52 50.0    2 16.0	0.65 6600	2042	9 33.8
12	8 46 21.80    0 32.92	+18 55 6.0    2 4.2	0.65 8642	2115	9 25.4
14	8 45 48.88    0 30.08	18 57 10.2    1 52.2	0.66 0757	2183	9 17.0
16	8 45 18.80    0 27.14	18 59 2.4    1 40.0	0.66 2940	2247	9 8.6
18	8 44 51.66    0 24.17	19 0 42.4    1 27.7	0.66 5187	2307	9 0.3
20	8 44 27.49    0 21.16	19 2 10.1    1 15.5	0.66 7494	2362	8 52.1
22	8 44 6.33	19 3 25.6	0.66 9856		8 43.9

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
März 22	8 <sup>h</sup> 44 <sup>m</sup> 6.33 <sup>s</sup> <small>o 18.08</small>	+19° 3' 25.6" <small>1' 3.0"</small>	0.66 9856	8 <sup>h</sup> 43.9 <sup>m</sup>
24	8 43 48.25 <small>o 14.99</small>	19 4 28.6 <small>o 50.7</small>	0.67 2268	8 35.7
26	8 43 33.26 <small>o 11.87</small>	19 5 19.3 <small>o 38.4</small>	0.67 4726	8 27.6
28	8 43 21.39 <small>o 8.77</small>	19 5 57.7 <small>o 26.2</small>	0.67 7224	8 19.6
30	8 43 12.62 <small>o 5.66</small>	19 6 23.9 <small>o 13.9</small>	0.67 9759	8 11.6
April 1	8 43 6.96 <small>o 2.56</small>	19 6 37.8 <small>o 1.9</small>	0.68 2327	8 3.6
3	8 43 4.40 <small>o 0.53</small>	+19 6 39.7 <small>o 10.0</small>	0.68 4923	7 55.7
5	8 43 4.93 <small>o 3.61</small>	19 6 29.7 <small>o 22.1</small>	0.68 7543	7 47.9
7	8 43 8.54 <small>o 6.67</small>	19 6 7.6 <small>o 34.0</small>	0.69 0185	7 40.1
9	8 43 15.21 <small>o 9.71</small>	19 5 33.6 <small>o 45.8</small>	0.69 2844	7 32.3
11	8 43 24.92 <small>o 12.73</small>	19 4 47.8 <small>o 57.6</small>	0.69 5518	7 24.6
13	8 43 37.65 <small>o 15.72</small>	19 3 50.2 <small>1 9.1</small>	0.69 8202	7 17.0
15	8 43 53.37 <small>o 18.69</small>	+19 2 41.1 <small>1 20.8</small>	0.70 0893	7 9.4
17	8 44 12.06 <small>o 21.62</small>	19 1 20.3 <small>1 32.3</small>	0.70 3589	7 1.9
19	8 44 33.68 <small>o 24.53</small>	18 59 48.0 <small>1 43.6</small>	0.70 6185	6 54.4
21	8 44 58.21 <small>o 27.36</small>	18 58 4.4 <small>1 54.8</small>	0.70 8977	6 46.9
23	8 45 25.57 <small>o 30.16</small>	18 56 9.6 <small>2 5.9</small>	0.71 1664	6 39.5
25	8 45 55.73 <small>o 32.90</small>	18 54 3.7 <small>2 16.8</small>	0.71 4342	6 32.1
27	8 46 28.63 <small>o 35.57</small>	+18 51 46.9 <small>2 27.5</small>	0.71 7009	6 24.8
29	8 47 4.20 <small>o 38.18</small>	18 49 19.4 <small>2 38.0</small>	0.71 9661	6 17.6
Mai 1	8 47 42.38 <small>o 40.74</small>	18 46 41.4 <small>2 48.6</small>	0.72 2297	6 10.3
3	8 48 23.12 <small>o 43.24</small>	18 43 52.8 <small>2 59.0</small>	0.72 4915	6 3.2
5	8 49 6.36 <small>o 45.68</small>	18 40 53.8 <small>3 9.2</small>	0.72 7512	5 56.0
7	8 49 52.04 <small>o 48.08</small>	18 37 44.6 <small>3 19.4</small>	0.73 0087	5 48.9
9	8 50 40.12 <small>o 50.41</small>	+18 34 25.2 <small>3 29.5</small>	0.73 2637	5 41.9
11	8 51 30.53 <small>o 52.69</small>	18 30 55.7 <small>3 39.4</small>	0.73 5162	5 34.8
13	8 52 23.22 <small>o 54.93</small>	18 27 16.3 <small>3 49.3</small>	0.73 7658	5 27.8
15	8 53 18.15 <small>o 57.10</small>	18 23 27.0 <small>3 59.0</small>	0.74 0125	5 20.9
17	8 54 15.25 <small>o 59.22</small>	18 19 28.0 <small>4 8.7</small>	0.74 2561	5 14.0
19	8 55 14.47 <small>1 1.29</small>	18 15 19.3 <small>4 18.2</small>	0.74 4963	5 7.1
21	8 56 15.76 <small>1 3.27</small>	+18 11 1.1 <small>4 27.5</small>	0.74 7330	5 0.3
23	8 57 19.03 <small>1 5.19</small>	18 6 33.6 <small>4 36.7</small>	0.74 9661	4 53.4
25	8 58 24.22 <small>1 7.05</small>	18 1 56.9 <small>4 45.6</small>	0.75 1954	4 46.7
27	8 59 31.27 <small>1 8.84</small>	17 57 11.3 <small>4 54.6</small>	0.75 4209	4 39.9
29	9 0 40.11 <small>1 10.57</small>	17 52 16.7 <small>5 3.4</small>	0.75 6423	4 33.2
31	9 1 50.68 <small>1 12.25</small>	17 47 13.3 <small>5 12.0</small>	0.75 8597	4 26.5
Juni 2	9 3 2.93 <small>1 13.87</small>	+17 42 1.3 <small>5 20.5</small>	0.76 0729	4 19.8
4	9 4 16.80 <small>1 15.44</small>	17 36 40.8 <small>5 29.0</small>	0.76 2819	4 13.2
6	9 5 32.24 <small>1 16.96</small>	17 31 11.8 <small>5 37.3</small>	0.76 4865	4 6.6
8	9 6 49.20 <small>1 18.43</small>	17 25 34.5 <small>5 45.6</small>	0.76 6868	4 0.0
10	9 8 7.63 <small>1 19.85</small>	17 19 48.9 <small>5 53.7</small>	0.76 8826	3 53.5
12	9 9 27.48	17 13 55.2	0.77 0739	3 46.9

Tag	0 <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1920					
Juni 12	<sup>h</sup> 9 <sup>m</sup> 9 <sup>s</sup> 27.48 <sub>1 21.22</sub>	+17° 13' 55.2" <sub>6' 1.7"</sub>	0.77 0739	1866	<sup>h</sup> 3 <sup>m</sup> 46.9
14	9 10 48.70 <sub>1 22.55</sub>	17 7 53.5 <sub>6 9.5</sub>	0.77 2605	1818	3 40.4
16	9 12 11.25 <sub>1 23.81</sub>	17 1 44.0 <sub>6 17.4</sub>	0.77 4423	1771	3 33.9
18	9 13 35.06 <sub>1 25.01</sub>	16 55 26.6 <sub>6 24.8</sub>	0.77 6194	1721	3 27.4
20	9 15 0.07 <sub>1 26.17</sub>	16 49 1.8 <sub>6 32.2</sub>	0.77 7915	1672	3 21.0
22	9 16 26.24 <sub>1 27.27</sub>	16 42 29.6 <sub>6 39.5</sub>	0.77 9587	1622	3 14.5
24	9 17 53.51 <sub>1 28.30</sub>	+16 35 50.1 <sub>6 46.5</sub>	0.78 1209	1573	3 8.1
26	9 19 21.81 <sub>1 29.30</sub>	16 29 3.6 <sub>6 53.5</sub>	0.78 2782	1521	3 1.7
28	9 20 51.11 <sub>1 30.24</sub>	16 22 10.1 <sub>7 0.3</sub>	0.78 4303	1471	2 55.3
30	9 22 21.35 <sub>1 31.15</sub>	16 15 9.8 <sub>7 6.9</sub>	0.78 5774	1420	2 49.0
Juli 2	9 23 52.50 <sub>1 32.01</sub>	16 8 2.9 <sub>7 13.5</sub>	0.78 7194	1368	2 42.6
4	9 25 24.51 <sub>1 32.83</sub>	16 0 49.4 <sub>7 19.9</sub>	0.78 8562	1317	2 36.3
6	9 26 57.34 <sub>1 33.62</sub>	+15 53 29.5 <sub>7 26.1</sub>	0.78 9879	1265	2 30.0
8	9 28 30.96 <sub>1 34.36</sub>	15 46 3.4 <sub>7 32.4</sub>	0.79 1144	1213	2 23.7
10	9 30 5.32 <sub>1 35.06</sub>	15 38 31.0 <sub>7 38.4</sub>	0.79 2357	1159	2 17.4
12	9 31 40.38 <sub>1 35.73</sub>	15 30 52.6 <sub>7 44.3</sub>	0.79 3516	1107	2 11.1
14	9 33 16.11 <sub>1 36.35</sub>	15 23 8.3 <sub>7 50.0</sub>	0.79 4623	1052	2 4.8
16	9 34 52.46 <sub>1 36.93</sub>	15 15 18.3 <sub>7 55.4</sub>	0.79 5675	999	1 58.5
18	9 36 29.39 <sub>1 37.45</sub>	+15 7 22.9 <sub>8 0.6</sub>	0.79 6674	944	1 52.3
20	9 38 6.84 <sub>1 37.93</sub>	14 59 22.3 <sub>8 5.8</sub>	0.79 7618	889	1 46.0
22	9 39 44.77 <sub>1 38.36</sub>	14 51 16.5 <sub>8 10.6</sub>	0.79 8507	835	1 39.8
24	9 41 23.13 <sub>1 38.77</sub>	14 43 5.9 <sub>8 15.3</sub>	0.79 9342	781	1 33.6
26	9 43 1.90 <sub>1 39.13</sub>	14 34 50.6 <sub>8 19.9</sub>	0.80 0123	725	1 27.3
28	9 44 41.03 <sub>1 39.45</sub>	14 26 30.7 <sub>8 24.2</sub>	0.80 0848	672	1 21.1
30	9 46 20.48 <sub>1 39.75</sub>	+14 18 6.5 <sub>8 28.4</sub>	0.80 1520	616	1 14.9
Aug. 1	9 48 0.23 <sub>1 40.01</sub>	14 9 38.1 <sub>8 32.6</sub>	0.80 2136	562	1 8.7
3	9 49 40.24 <sub>1 40.23</sub>	14 1 5.5 <sub>8 36.4</sub>	0.80 2698	506	1 2.5
5	9 51 20.47 <sub>1 40.43</sub>	13 52 29.1 <sub>8 40.1</sub>	0.80 3204	451	0 56.3
7	9 53 0.90 <sub>1 40.60</sub>	13 43 49.0 <sub>8 43.7</sub>	0.80 3655	396	0 50.1
9	9 54 41.50 <sub>1 40.73</sub>	13 35 5.3 <sub>8 46.9</sub>	0.80 4051	340	0 43.9
11	9 56 22.23 <sub>1 40.82</sub>	+13 26 18.4 <sub>8 50.0</sub>	0.80 4391	283	0 37.7
13	9 58 3.05 <sub>1 40.87</sub>	13 17 28.4 <sub>8 52.8</sub>	0.80 4674	227	0 31.5
15	9 59 43.92 <sub>1 40.89</sub>	13 8 35.6 <sub>8 55.5</sub>	0.80 4901	171	0 25.3
17	10 1 24.81 <sub>1 40.85</sub>	12 59 40.1 <sub>8 57.7</sub>	0.80 5072	114	0 19.1
19	10 3 5.66 <sub>1 40.78</sub>	12 50 42.4 <sub>8 59.9</sub>	0.80 5186	58	0 12.9
21	10 4 46.44 <sub>1 40.68</sub>	12 41 42.5 <sub>9 1.8</sub>	0.80 5244	2	0 6.7
23	10 6 27.12 <sub>1 40.54</sub>	+12 32 40.7 <sub>9 3.4</sub>	0.80 5246	55	0 0.5
25	10 8 7.66 <sub>1 40.37</sub>	12 23 37.3 <sub>9 4.8</sub>	0.80 5191	111	23 51.2
27	10 9 48.03 <sub>1 40.17</sub>	12 14 32.5 <sub>9 6.1</sub>	0.80 5080	167	23 45.0
29	10 11 28.20 <sub>1 39.94</sub>	12 5 26.4 <sub>9 7.0</sub>	0.80 4913	223	23 38.8
31	10 13 8.14 <sub>1 39.68</sub>	11 56 19.4 <sub>9 7.9</sub>	0.80 4690	280	23 32.6
Sept. 2	10 14 47.82	11 47 11.5	0.80 4410		23 26.4

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
Sept. 2	10 <sup>h</sup> 14 <sup>m</sup> 47. <sup>s</sup> 82 1 39.41	+11° 47' 11.5" 9 8.5	0.80 4410 335	23 <sup>h</sup> 26. <sup>m</sup> 4
4	10 16 27.23 1 39.06	11 38 3.0 9 8.8	0.80 4075 392	23 20.2
6	10 18 6.29 1 38.71	11 28 54.2 9 8.8	0.80 3683 449	23 14.0
8	10 19 45.00 1 38.32	11 19 45.4 9 8.6	0.80 3234 506	23 7.7
10	10 21 23.32 1 37.88	11 10 36.8 9 8.1	0.80 2728 563	23 1.5
12	10 23 1.20 1 37.41	11 1 28.7 9 7.2	0.80 2165 620	22 55.3
14	10 24 38.61 1 36.88	+10 52 21.5 9 6.0	0.80 1545 677	22 49.0
16	10 26 15.49 1 36.33	10 43 15.5 9 4.5	0.80 0868 733	22 42.8
18	10 27 51.82 1 35.73	10 34 11.0 9 3.0	0.80 0135 789	22 36.5
20	10 29 27.55 1 35.10	10 25 8.0 9 0.9	0.79 9346 845	22 30.2
22	10 31 2.65 1 34.43	10 16 7.1 8 58.6	0.79 8501 901	22 23.9
24	10 32 37.08 1 33.73	10 7 8.5 8 56.1	0.79 7600 956	22 17.6
26	10 34 10.81 1 33.00	+ 9 58 12.4 8 53.2	0.79 6644 1012	22 11.3
28	10 35 43.81 1 32.23	9 49 19.2 8 50.2	0.79 5632 1066	22 5.0
30	10 37 16.04 1 31.43	9 40 29.0 8 46.7	0.79 4566 1123	21 58.6
Okt. 2	10 38 47.47 1 30.59	9 31 42.3 8 43.0	0.79 3443 1178	21 52.3
4	10 40 18.06 1 29.71	9 22 59.3 8 39.0	0.79 2265 1233	21 45.9
6	10 41 47.77 1 28.79	9 14 20.3 8 34.6	0.79 1032 1288	21 39.5
8	10 43 16.56 1 27.82	+ 9 5 45.7 8 29.8	0.78 9744 1342	21 33.1
10	10 44 44.38 1 26.80	8 57 15.9 8 24.7	0.78 8402 1397	21 26.7
12	10 46 11.18 1 25.73	8 48 51.2 8 19.2	0.78 7005 1451	21 20.3
14	10 47 36.91 1 24.62	8 40 32.0 8 13.3	0.78 5554 1505	21 13.8
16	10 49 1.53 1 23.46	8 32 18.7 8 7.2	0.78 4049 1557	21 7.4
18	10 50 24.99 1 22.26	8 24 11.5 8 0.6	0.78 2492 1609	21 0.9
20	10 51 47.25 1 21.01	+ 8 16 10.9 7 53.8	0.78 0883 1660	20 54.4
22	10 53 8.26 1 19.73	8 8 17.1 7 46.5	0.77 9223 1712	20 47.8
24	10 54 27.99 1 18.41	8 0 30.6 7 39.0	0.77 7511 1762	20 41.3
26	10 55 46.40 1 17.04	7 52 51.6 7 31.1	0.77 5749 1811	20 34.7
28	10 57 3.44 1 15.63	7 45 20.5 7 22.9	0.77 3938 1860	20 28.1
30	10 58 19.07 1 14.17	7 37 57.6 7 14.3	0.77 2078 1909	20 21.5
Nov. 1	10 59 33.24 1 12.67	+ 7 30 43.3 7 5.4	0.77 0169 1956	20 14.9
3	11 0 45.91 1 11.11	7 23 37.9 6 56.0	0.76 8213 2004	20 8.2
5	11 1 57.02 1 9.50	7 16 41.9 6 46.1	0.76 6209 2050	20 1.5
7	11 3 6.52 1 7.82	7 9 55.8 6 35.9	0.76 4159 2095	19 54.8
9	11 4 14.34 1 6.10	7 3 19.9 6 25.4	0.76 2064 2139	19 48.0
11	11 5 20.44 1 4.31	6 56 54.5 6 14.3	0.75 9925 2182	19 41.2
13	11 6 24.75 1 2.48	+ 6 50 40.2 6 2.8	0.75 7743 2223	19 34.4
15	11 7 27.23 1 0.60	6 44 37.4 5 51.1	0.75 5520 2264	19 27.6
17	11 8 27.83 0 58.66	6 38 46.3 5 39.0	0.75 3256 2301	19 20.7
19	11 9 26.49 0 56.68	6 33 7.3 5 26.5	0.75 0955 2339	19 13.8
21	11 10 23.17 0 54.65	6 27 40.8 5 13.7	0.74 8616 2373	19 6.9
23	11 11 17.82	6 22 27.1	0.74 6243	18 59.9

Tag	O <sup>b</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
<b>1920</b>				
Nov. 23	II <sup>h</sup> II <sup>m</sup> 17.82 <sup>s</sup>	+6° 22' 27.1"	0.74 6243	18 <sup>h</sup> 59.9 <sup>m</sup>
	52.58	5 0.6	2406	
25	II 12 10.40	6 17 26.5	0.74 3837	18 52.9
	50.46	4 47.1	2439	
27	II 13 0.86	6 12 39.4	0.74 1398	18 45.9
	48.28	4 33.2	2469	
29	II 13 49.14	6 8 6.2	0.73 8929	18 38.8
	46.07	4 18.9	2498	
Dez. 1	II 14 35.21	6 3 47.3	0.73 6431	18 31.7
	43.78	4 4.3	2525	
3	II 15 18.99	5 59 43.0	0.73 3906	18 24.5
	41.45	3 49.2	2549	
5	II 16 0.44	+5 55 53.8	0.73 1357	18 17.3
	39.05	3 33.9	2571	
7	II 16 39.49	5 52 19.9	0.72 8786	18 10.1
	36.61	3 18.1	2591	
9	II 17 16.10	5 49 1.8	0.72 6195	18 2.8
	34.11	3 2.1	2608	
11	II 17 50.21	5 45 59.7	0.72 3587	17 55.5
	31.57	2 45.7	2622	
13	II 18 21.78	5 43 14.0	0.72 0965	17 48.1
	28.99	2 29.1	2634	
15	II 18 50.77	5 40 44.9	0.71 8331	17 40.7
	26.37	2 12.2	2642	
17	II 19 17.14	+5 38 32.7	0.71 5689	17 33.3
	23.71	1 55.1	2647	
19	II 19 40.85	5 36 37.6	0.71 3042	17 25.8
	21.02	1 37.9	2649	
21	II 20 1.87	5 34 59.7	0.71 0393	17 18.3
	18.31	1 20.4	2648	
23	II 20 20.18	5 33 39.3	0.70 7745	17 10.7
	15.57	1 2.8	2644	
25	II 20 35.75	5 32 36.5	0.70 5101	17 3.1
	12.80	0 45.1	2636	
27	II 20 48.55	5 31 51.4	0.70 2465	16 55.4
	10.01	0 27.2	2626	
29	II 20 58.56	+5 31 24.2	0.69 9839	16 47.7
	7.18	0 9.0	2611	
31	II 21 5.74	5 31 15.2	0.69 7228	16 40.0
	(2.52)	(0 2.3)	(1300)	
32	II 21 8.26	5 31 17.5	0.69 5928	16 36.1

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
Jan. 0	IO <sup>h m s</sup> 54 57.55 6.79	+ 8° 52' 18.1 1 14.5	0.94 4906 1440	IO <sup>h m</sup> 16 16.8
2	IO 54 50.76 8.41	8 53 32.6 1 24.1	0.94 3466 1416	IO 16 8.8
4	IO 54 42.35 10.01	8 54 56.7 1 33.6	0.94 2050 1390	IO 16 0.8
6	IO 54 32.34 11.59	8 56 30.3 1 43.1	0.94 0660 1361	IO 15 52.8
8	IO 54 20.75 13.15	8 58 13.4 1 52.1	0.93 9299 1330	IO 15 44.7
10	IO 54 7.60 14.69	9 0 5.5 2 1.1	0.93 7969 1297	IO 15 36.6
12	IO 53 52.91 16.22	+ 9 2 6.6 2 9.9	0.93 6672 1262	IO 15 28.5
14	IO 53 36.69 17.70	9 4 16.5 2 18.4	0.93 5410 1224	IO 15 20.4
16	IO 53 18.99 19.14	9 6 34.9 2 26.6	0.93 4186 1185	IO 15 12.2
18	IO 52 59.85 20.56	9 9 1.5 2 34.6	0.93 3001 1143	IO 15 4.0
20	IO 52 39.29 21.93	9 11 36.1 2 42.2	0.93 1858 1098	IO 14 55.8
22	IO 52 17.36 23.25	9 14 18.3 2 49.4	0.93 0760 1053	IO 14 47.5
24	IO 51 54.11 24.51	+ 9 17 7.7 2 56.3	0.92 9707 1004	IO 14 39.3
26	IO 51 29.60 25.73	9 20 4.0 3 2.8	0.92 8703 954	IO 14 31.0
28	IO 51 3.87 26.89	9 23 6.8 3 8.8	0.92 7749 902	IO 14 22.7
30	IO 50 36.98 27.97	9 26 15.6 3 14.4	0.92 6847 849	IO 14 14.4
Febr. 1	IO 50 9.01 29.00	9 29 30.0 3 19.5	0.92 5998 795	IO 14 6.1
3	IO 49 40.01 29.97	9 32 49.5 3 24.5	0.92 5203 738	IO 13 57.7
5	IO 49 10.04 30.89	+ 9 36 14.0 3 28.8	0.92 4465 681	IO 13 49.4
7	IO 48 39.15 31.74	9 39 42.8 3 32.9	0.92 3784 622	IO 13 41.0
9	IO 48 7.41 32.51	9 43 15.7 3 36.2	0.92 3162 562	IO 13 32.6
11	IO 47 34.90 33.22	9 46 51.9 3 39.4	0.92 2600 500	IO 13 24.2
13	IO 47 1.68 33.85	9 50 31.3 3 41.8	0.92 2100 438	IO 13 15.8
15	IO 46 27.83 34.42	9 54 13.1 3 43.9	0.92 1662 375	IO 13 7.3
17	IO 45 53.41 34.90	+ 9 57 57.0 3 45.3	0.92 1287 311	IO 12 58.9
19	IO 45 18.51 35.30	IO 1 42.3 3 46.3	0.92 0976 245	IO 12 50.5
21	IO 44 43.21 35.60	IO 5 28.6 3 46.7	0.92 0731 180	IO 12 42.0
23	IO 44 7.61 35.83	IO 9 15.3 3 46.9	0.92 0551 115	IO 12 33.6
25	IO 43 31.78 35.96	IO 13 2.2 3 46.2	0.92 0436 49	IO 12 25.1
27	IO 42 55.82 36.03	IO 16 48.4 3 45.0	0.92 0387 16	IO 12 16.6
29	IO 42 19.79 36.01	+ IO 20 33.4 3 43.5	0.92 0403 82	IO 12 8.2
März 2	IO 41 43.78 35.90	IO 24 16.9 3 41.5	0.92 0485 147	IO 11 59.7
4	IO 41 7.88 35.73	IO 27 58.4 3 39.0	0.92 0632 211	IO 11 51.3
6	IO 40 32.15 35.48	IO 31 37.4 3 36.0	0.92 0843 276	IO 11 42.8
8	IO 39 56.67 35.15	IO 35 13.4 3 32.7	0.92 1119 339	IO 11 34.4
10	IO 39 21.52 34.74	IO 38 46.1 3 28.9	0.92 1458 402	IO 11 25.9
12	IO 38 46.78 34.26	+ IO 42 15.0 3 24.6	0.92 1860 464	IO 11 17.5
14	IO 38 12.52 33.70	IO 45 39.6 3 19.9	0.92 2324 526	IO 11 9.0
16	IO 37 38.82 33.08	IO 48 59.5 3 14.8	0.92 2850 586	IO 11 0.6
18	IO 37 5.74 32.36	IO 52 14.3 3 9.3	0.92 3436 645	IO 10 52.2
20	IO 36 33.38 31.57	IO 55 23.6 3 3.4	0.92 4081 704	IO 10 43.8
22	IO 36 1.81	IO 58 27.0	0.92 4785	IO 10 35.4



Tag	O <sup>b</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
März 22	10 <sup>h</sup> 36 <sup>m</sup> 1.81 <sup>s</sup> 30.72	+10° 58' 27.0" 2 57.0	0.92 4785 760	10 <sup>h</sup> 35.4 <sup>m</sup>
24	10 35 31.09 29.79	II 1 24.0 2 50.4	0.92 5545 814	10 27.1
26	10 35 1.30 28.80	II 4 14.4 2 43.4	0.92 6359 868	10 18.7
28	10 34 32.50 27.76	II 6 57.8 2 36.3	0.92 7227 919	10 10.4
30	10 34 4.74 26.67	II 9 34.1 2 28.8	0.92 8146 968	10 2.0
April 1	10 33 38.07 25.52	II 12 2.9 2 21.0	0.92 9114 1016	9 53.8
3	10 33 12.55 24.34	+II 14 23.9 2 13.2	0.93 0130 1062	9 45.5
5	10 32 48.21 23.09	II 16 37.1 2 4.9	0.93 1192 1105	9 37.2
7	10 32 25.12 21.81	II 18 42.0 1 56.7	0.93 2297 1148	9 29.0
9	10 32 3.31 20.50	II 20 38.7 1 48.0	0.93 3445 1189	9 20.8
11	10 31 42.81 19.13	II 22 26.7 1 39.3	0.93 4634 1227	9 12.5
13	10 31 23.68 17.73	II 24 6.0 1 30.4	0.93 5861 1263	9 4.4
15	10 31 5.95 16.30	+II 25 36.4 1 21.3	0.93 7124 1298	8 56.2
17	10 30 49.65 14.82	II 26 57.7 1 12.2	0.93 8422 1330	8 48.1
19	10 30 34.83 13.32	II 28 9.9 1 2.9	0.93 9752 1360	8 40.0
21	10 30 21.51 11.80	II 29 12.8 0 53.5	0.94 1112 1389	8 31.9
23	10 30 9.71 10.25	II 30 6.3 0 44.1	0.94 2501 1414	8 23.8
25	10 29 59.46 8.71	II 30 50.4 0 34.6	0.94 3915 1437	8 15.8
27	10 29 50.75 7.13	+II 31 25.0 0 25.2	0.94 5352 1458	8 7.8
29	10 29 43.62 5.57	II 31 50.2 0 15.6	0.94 6810 1478	7 59.8
Mai 1	10 29 38.05 3.98	II 32 5.8 0 6.3	0.94 8288 1494	7 51.9
3	10 29 34.07 2.40	II 32 12.1 0 3.2	0.94 9782 1511	7 44.0
5	10 29 31.67 0.81	II 32 8.9 0 12.6	0.95 1293 1524	7 36.0
7	10 29 30.86 0.77	II 31 56.3 0 22.0	0.95 2817 1535	7 28.2
9	10 29 31.63 2.37	+II 31 34.3 0 31.5	0.95 4352 1546	7 20.3
11	10 29 34.00 3.96	II 31 2.8 0 40.9	0.95 5898 1553	7 12.5
13	10 29 37.96 5.54	II 30 21.9 0 50.2	0.95 7451 1559	7 4.7
15	10 29 43.50 7.13	II 29 31.7 0 59.5	0.95 9010 1564	6 57.0
17	10 29 50.63 8.71	II 28 32.2 1 8.5	0.96 0574 1566	6 49.2
19	10 29 59.34 10.28	II 27 23.7 1 17.7	0.96 2140 1566	6 41.5
21	10 30 9.62 11.84	+II 26 6.0 1 26.8	0.96 3706 1565	6 33.8
23	10 30 21.46 13.37	II 24 39.2 1 35.6	0.96 5271 1561	6 26.2
25	10 30 34.83 14.89	II 23 3.6 1 44.4	0.96 6832 1557	6 18.5
27	10 30 49.72 16.38	II 21 19.2 1 53.1	0.96 8389 1550	6 10.9
29	10 31 6.10 17.86	II 19 26.1 2 1.6	0.96 9939 1542	6 3.3
31	10 31 23.96 19.30	II 17 24.5 2 9.9	0.97 1481 1533	5 55.7
Juni 2	10 31 43.26 20.74	+II 15 14.6 2 18.2	0.97 3014 1523	5 48.2
4	10 32 4.00 22.15	II 12 56.4 2 26.4	0.97 4537 1510	5 40.7
6	10 32 26.15 23.54	II 10 30.0 2 34.4	0.97 6047 1498	5 33.2
8	10 32 49.69 24.91	II 7 55.6 2 42.3	0.97 7545 1482	5 25.7
10	10 33 14.60 26.26	II 5 13.3 2 50.1	0.97 9027 1467	5 18.3
12	10 33 40.86	II 2 23.2	0.98 0494	5 10.9

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
Juni 12	10 <sup>h</sup> 33 <sup>m</sup> 40.86 <sup>s</sup> 27.59	+11° 2' 23.2" 2' 57.8"	0.98 0494 1450	5 <sup>h</sup> 10.9 <sup>m</sup>
14	10 34 8.45 28.89	10 59 25.4 3 5.3	0.98 1944 1432	5 3.4
16	10 34 37.34 30.17	10 56 20.1 3 12.6	0.98 3376 1412	4 56.0
18	10 35 7.51 31.42	10 53 7.5 3 19.9	0.98 4788 1390	4 48.7
20	10 35 38.93 32.63	10 49 47.6 3 26.9	0.98 6178 1369	4 41.4
22	10 36 11.56 33.82	10 46 20.7 3 33.7	0.98 7547 1346	4 34.0
24	10 36 45.38 34.97	+10 42 47.0 3 40.4	0.98 8893 1321	4 26.7
26	10 37 20.35 36.09	10 39 6.6 3 46.9	0.99 0214 1297	4 19.4
28	10 37 56.44 37.17	10 35 19.7 3 53.2	0.99 1511 1271	4 12.2
30	10 38 33.61 38.24	10 31 26.5 3 59.4	0.99 2782 1244	4 4.9
Juli 2	10 39 11.85 39.26	10 27 27.1 4 5.4	0.99 4026 1217	3 57.7
4	10 39 51.11 40.27	10 23 21.7 4 11.3	0.99 5243 1189	3 50.5
6	10 40 31.38 41.26	+10 19 10.4 4 17.0	0.99 6432 1160	3 43.3
8	10 41 12.64 42.20	10 14 53.4 4 22.6	0.99 7592 1131	3 36.1
10	10 41 54.84 43.12	10 10 30.8 4 28.0	0.99 8723 1100	3 29.0
12	10 42 37.96 44.02	10 6 2.8 4 33.4	0.99 9823 1069	3 21.8
14	10 43 21.98 44.89	10 1 29.4 4 38.4	1.00 0892 1037	3 14.7
16	10 44 6.87 45.70	9 56 51.0 4 43.2	1.00 1929 1004	3 7.6
18	10 44 52.57 46.50	+ 9 52 7.8 4 47.8	1.00 2933 971	3 0.5
20	10 45 39.07 47.27	9 47 20.0 4 52.4	1.00 3904 937	2 53.4
22	10 46 26.34 47.99	9 42 27.6 4 56.7	1.00 4841 902	2 46.3
24	10 47 14.33 48.68	9 37 30.9 5 0.7	1.00 5743 868	2 39.2
26	10 48 3.01 49.34	9 32 30.2 5 4.7	1.00 6611 831	2 32.2
28	10 48 52.35 49.97	9 27 25.5 5 8.5	1.00 7442 796	2 25.1
30	10 49 42.32 50.58	+ 9 22 17.0 5 12.1	1.00 8238 761	2 18.1
Aug. 1	10 50 32.90 51.15	9 17 4.9 5 15.5	1.00 8999 724	2 11.1
3	10 51 24.05 51.69	9 11 49.4 5 18.8	1.00 9723 687	2 4.1
5	10 52 15.74 52.21	9 6 30.6 5 21.8	1.01 0410 650	1 57.1
7	10 53 7.95 52.70	9 1 8.8 5 24.8	1.01 1060 612	1 50.0
9	10 54 0.65 53.17	8 55 44.0 5 27.6	1.01 1672 573	1 43.0
11	10 54 53.82 53.58	+ 8 50 16.4 5 30.0	1.01 2245 535	1 36.1
13	10 55 47.40 53.99	8 44 46.4 5 32.4	1.01 2780 497	1 29.1
15	10 56 41.39 54.34	8 39 14.0 5 34.5	1.01 3277 456	1 22.1
17	10 57 35.73 54.67	8 33 39.5 5 36.4	1.01 3733 417	1 15.2
19	10 58 30.40 54.96	8 28 3.1 5 38.1	1.01 4150 378	1 8.2
21	10 59 25.36 55.22	8 22 25.0 5 39.6	1.01 4528 337	1 1.3
23	11 0 20.58 55.44	+ 8 16 45.4 5 40.9	1.01 4865 297	0 54.3
25	11 1 16.02 55.65	8 11 4.5 5 42.0	1.01 5162 257	0 47.4
27	11 2 11.67 55.81	8 5 22.5 5 43.0	1.01 5419 217	0 40.4
29	11 3 7.48 55.95	7 59 39.5 5 43.7	1.01 5636 177	0 33.5
31	11 4 3.43 56.06	7 53 55.8 5 44.3	1.01 5813 136	0 26.6
Sept. 2	11 4 59.49	7 48 11.5	1.01 5949	0 19.6

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
Sept. 2	II <sup>h</sup> 4 <sup>m</sup> 59.49 <sup>s</sup> 56.16	+7° 48' 11.5" 5 44.7	I.OI 5949 96	II <sup>h</sup> 19.6 <sup>m</sup> 0 12.7
4	II 5 55.65 56.20	7 42 26.8 5 44.9	I.OI 6045 55	0 5.8
6	II 6 51.85 56.24	7 36 41.9 5 44.9	I.OI 6100 13	23 55.4
8	II 7 48.09 56.22	7 30 57.0 5 44.6	I.OI 6113 27	23 48.4
10	II 8 44.31 56.19	7 25 12.4 5 44.2	I.OI 6086 69	23 41.5
12	II 9 40.50 56.10	7 19 28.2 5 43.5	I.OI 6017 110	
14	II 10 36.60 56.00	+7 13 44.7 5 42.6	I.OI 5907 151	23 34.5
16	II 11 32.60 55.84	7 8 2.1 5 41.4	I.OI 5756 193	23 27.6
18	II 12 28.44 55.66	7 2 20.7 5 40.1	I.OI 5563 233	23 20.7
20	II 13 24.10 55.46	6 56 40.6 5 38.4	I.OI 5330 275	23 13.7
22	II 14 19.56 55.21	6 51 2.2 5 36.8	I.OI 5055 315	23 6.8
24	II 15 14.77 54.95	6 45 25.4 5 34.8	I.OI 4740 356	22 59.8
26	II 16 9.72 54.64	+6 39 50.6 5 32.5	I.OI 4384 396	22 52.9
28	II 17 4.36 54.31	6 34 18.1 5 30.2	I.OI 3988 436	22 46.0
30	II 17 58.67 53.96	6 28 47.9 5 27.7	I.OI 3552 476	22 39.0
Okt. 2	II 18 52.63 53.56	6 23 20.2 5 24.8	I.OI 3076 517	22 32.0
4	II 19 46.19 53.14	6 17 55.4 5 21.8	I.OI 2559 556	22 25.0
6	II 20 39.33 52.68	6 12 33.6 5 18.5	I.OI 2003 595	22 18.0
8	II 21 32.01 52.19	+6 7 15.1 5 15.1	I.OI 1408 635	22 11.0
10	II 22 24.20 51.66	6 2 0.0 5 11.2	I.OI 0773 675	22 4.0
12	II 23 15.86 51.10	5 56 48.8 5 7.3	I.OI 0098 713	21 57.0
14	II 24 6.96 50.50	5 51 41.5 5 3.0	I.OO 9385 752	21 50.0
16	II 24 57.46 49.85	5 46 38.5 4 58.6	I.OO 8633 789	21 43.0
18	II 25 47.31 49.18	5 41 39.9 4 53.8	I.OO 7844 827	21 35.9
20	II 26 36.49 48.48	+5 36 46.1 4 49.0	I.OO 7017 863	21 28.9
22	II 27 24.97 47.75	5 31 57.1 4 43.8	I.OO 6154 899	21 21.8
24	II 28 12.72 46.98	5 27 13.3 4 38.5	I.OO 5255 935	21 14.7
26	II 28 59.70 46.19	5 22 34.8 4 33.0	I.OO 4320 970	21 7.7
28	II 29 45.89 45.37	5 18 1.8 4 27.3	I.OO 3350 1005	21 0.5
30	II 30 31.26 44.50	5 13 34.5 4 21.3	I.OO 2345 1038	20 53.4
Nov. 1	II 31 15.76 43.62	+5 9 13.2 4 15.1	I.OO 1307 1072	20 46.3
3	II 31 59.38 42.70	5 4 58.1 4 8.6	I.OO 0235 1104	20 39.1
5	II 32 42.08 41.74	5 0 49.5 4 2.0	0.99 9131 1137	20 31.9
7	II 33 23.82 40.73	4 56 47.5 3 55.1	0.99 7994 1168	20 24.8
9	II 34 4.55 39.70	4 52 52.4 3 48.0	0.99 6826 1198	20 17.6
11	II 34 44.25 38.62	4 49 4.4 3 40.5	0.99 5628 1227	20 10.4
13	II 35 22.87 37.53	+4 45 23.9 3 33.0	0.99 4401 1256	20 3.2
15	II 36 0.40 36.38	4 41 50.9 3 25.1	0.99 3145 1282	19 55.9
17	II 36 36.78 35.22	4 38 25.8 3 17.2	0.99 1863 1309	19 48.6
19	II 37 12.00 34.02	4 35 8.6 3 9.0	0.99 0554 1334	19 41.4
21	II 37 46.02 32.80	4 31 59.6 3 0.8	0.98 9220 1358	19 34.0
23	II 38 18.82	4 28 58.8	0.98 7862	19 26.7

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
Nov. 23	II <sup>h</sup> 38 <sup>m</sup> 18.82 31.56	+4 <sup>o</sup> 28 <sup>i</sup> 58.8 2 <sup>''</sup> 52.2	0.98 7862 1380	19 <sup>h</sup> 26.7 <sup>m</sup>
25	II 38 50.38 30.28	4 26 6.6 2 43.5	0.98 6482 1401	19 19.3
27	II 39 20.66 28.97	4 23 23.1 2 34.7	0.98 5081 1422	19 12.0
29	II 39 49.63 27.65	4 20 48.4 2 25.7	0.98 3659 1441	19 4.6
Dez. 1	II 40 17.28 26.28	4 18 22.7 2 16.5	0.98 2218 1459	18 57.2
3	II 40 43.56 24.89	4 16 6.2 2 7.0	0.98 0759 1476	18 49.7
5	II 41 8.45 23.47	+4 13 59.2 1 57.5	0.97 9283 1490	18 42.3
7	II 41 31.92 22.01	4 12 1.7 1 47.7	0.97 7793 1504	18 34.8
9	II 41 53.93 20.54	4 10 14.0 1 37.9	0.97 6289 1515	18 27.3
11	II 42 14.47 19.05	4 8 36.1 1 27.9	0.97 4774 1525	18 19.8
13	II 42 33.52 17.52	4 7 8.2 1 17.8	0.97 3249 1534	18 12.2
15	II 42 51.04 15.99	4 5 50.4 1 7.6	0.97 1715 1540	18 4.6
17	II 43 7.03 14.45	+4 4 42.8 0 57.4	0.97 0175 1544	17 57.0
19	II 43 21.48 12.88	4 3 45.4 0 47.1	0.96 8631 1547	17 49.4
21	II 43 34.36 11.30	4 2 58.3 0 36.8	0.96 7084 1548	17 41.7
23	II 43 45.66 9.72	4 2 21.5 0 26.4	0.96 5536 1546	17 34.1
25	II 43 55.38 8.14	4 1 55.1 0 16.0	0.96 3990 1544	17 26.3
27	II 44 3.52 6.53	4 1 39.1 0 5.5	0.96 2446 1540	17 18.6
29	II 44 10.05 4.92	+4 1 33.6 0 4.9	0.96 0906 1533	17 10.8
31	II 44 14.97 (1.85)	4 1 38.5 (0 6.4)	0.95 9373 (763)	17 3.0
32	II 44 16.82	4 1 44.9	0.95 8610	16 59.1



Tag	O <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1920					
März 22	<sup>h</sup> 22 <sup>m</sup> 22 <sup>s</sup> 7.25 23.74	—10° 57' 45.9" <sup>2</sup> 13.6	1.32 0499	<sup>h</sup> 22 <sup>m</sup> 19.9	
24	22 22 30.99 23.41	10 55 32.3 <sup>2</sup> 11.6	1.32 0166	22 12.4	
26	22 22 54.40 23.04	10 53 20.7 <sup>2</sup> 9.5	1.31 9813	22 5.0	
28	22 23 17.44 22.67	10 51 11.2 <sup>2</sup> 7.5	1.31 9439	21 57.5	
30	22 23 40.11 22.27	10 49 3.7 <sup>2</sup> 5.1	1.31 9046	21 50.0	
April 1	22 24 2.38 21.87	10 46 58.6 <sup>2</sup> 2.8	1.31 8634	21 42.5	
3	22 24 24.25 21.43	—10 44 55.8 <sup>2</sup> 0.4	1.31 8204	21 35.0	
5	22 24 45.68 21.00	10 42 55.4 <sup>1</sup> 57.7	1.31 7755	21 27.5	
7	22 25 6.68 20.53	10 40 57.7 <sup>1</sup> 55.2	1.31 7288	21 20.0	
9	22 25 27.21 20.06	10 39 2.5 <sup>1</sup> 52.3	1.31 6804	21 12.4	
11	22 25 47.27 19.57	10 37 10.2 <sup>1</sup> 49.5	1.31 6303	21 4.9	
13	22 26 6.84 19.05	10 35 20.7 <sup>1</sup> 46.5	1.31 5785	20 57.3	
15	22 26 25.89 18.54	—10 33 34.2 <sup>1</sup> 43.5	1.31 5251	20 49.8	
17	22 26 44.43 17.98	10 31 50.7 <sup>1</sup> 40.2	1.31 4701	20 42.2	
19	22 27 2.41 17.43	10 30 10.5 <sup>1</sup> 37.0	1.31 4136	20 34.7	
21	22 27 19.84 16.85	10 28 33.5 <sup>1</sup> 33.7	1.31 3557	20 27.1	
23	22 27 36.69 16.27	10 26 59.8 <sup>1</sup> 30.2	1.31 2965	20 19.5	
25	22 27 52.96 15.66	10 25 29.6 <sup>1</sup> 26.7	1.31 2359	20 11.9	
27	22 28 8.62 15.05	—10 24 2.9 <sup>1</sup> 23.1	1.31 1740	20 4.3	
29	22 28 23.67 14.44	10 22 39.8 <sup>1</sup> 19.5	1.31 1110	19 56.7	
Mai 1	22 28 38.11 13.80	10 21 20.3 <sup>1</sup> 15.8	1.31 0468	19 49.1	
3	22 28 51.91 13.17	10 20 4.5 <sup>1</sup> 12.0	1.30 9816	19 41.4	
5	22 29 5.08 12.51	10 18 52.5 <sup>1</sup> 8.2	1.30 9154	19 33.8	
7	22 29 17.59 11.85	10 17 44.3 <sup>1</sup> 4.4	1.30 8483	19 26.1	
9	22 29 29.44 11.18	—10 16 39.9 <sup>1</sup> 0.4	1.30 7803	19 18.4	
11	22 29 40.62 10.50	10 15 39.5 <sup>0</sup> 56.4	1.30 7114	19 10.7	
13	22 29 51.12 9.80	10 14 43.1 <sup>0</sup> 52.3	1.30 6419	19 3.0	
15	22 30 0.92 9.10	10 13 50.8 <sup>0</sup> 48.1	1.30 5717	18 55.3	
17	22 30 10.02 8.40	10 13 2.7 <sup>0</sup> 44.0	1.30 5008	18 47.6	
19	22 30 18.42 7.67	10 12 18.7 <sup>0</sup> 39.8	1.30 4295	18 39.9	
21	22 30 26.09 6.96	—10 11 38.9 <sup>0</sup> 35.6	1.30 3578	18 32.2	
23	22 30 33.05 6.23	10 11 3.3 <sup>0</sup> 31.3	1.30 2857	18 24.4	
25	22 30 39.28 5.50	10 10 32.0 <sup>0</sup> 27.1	1.30 2134	18 16.6	
27	22 30 44.78 4.78	10 10 4.9 <sup>0</sup> 22.8	1.30 1409	18 8.8	
29	22 30 49.56 4.04	10 9 42.1 <sup>0</sup> 18.5	1.30 0683	18 1.0	
31	22 30 53.60 3.31	10 9 23.6 <sup>0</sup> 14.3	1.29 9956	17 53.2	
Juni 2	22 30 56.91 2.58	—10 9 9.3 <sup>0</sup> 10.0	1.29 9231	17 45.4	
4	22 30 59.49 1.85	10 8 59.3 <sup>0</sup> 5.6	1.29 8506	17 37.6	
6	22 31 1.34 1.11	10 8 53.7 <sup>0</sup> 1.4	1.29 7784	17 29.8	
8	22 31 2.45 0.38	10 8 52.3 <sup>0</sup> 2.9	1.29 7065	17 21.9	
10	22 31 2.83 0.36	10 8 55.2 <sup>0</sup> 7.2	1.29 6349	17 14.1	
12	22 31 2.47	10 9 2.4	1.29 5638	17 6.2	

Tag	O <sup>h</sup> mittlere Zeit Greenwich						Obere Kul- mination in Green- wich				
	Scheinbare Rektaszension			Scheinbare Deklination				log Δ			
1920											
1920 Juni	12	22	31	2.47	1.09	—10° 9' 2.4"	0 11.5	1.29 5638	706	17	6.2
	14	22	31	1.38	1.83	10 9 13.9	0 15.7	1.29 4932	699	16	58.3
	16	22	30	59.55	2.55	10 9 29.6	0 19.9	1.29 4233	692	16	50.4
	18	22	30	57.00	3.27	10 9 49.5	0 24.1	1.29 3541	684	16	42.5
	20	22	30	53.73	3.98	10 10 13.6	0 28.2	1.29 2857	675	16	34.6
	22	22	30	49.75	4.68	10 10 41.8	0 32.2	1.29 2182	665	16	26.7
	24	22	30	45.07	5.38	—10 11 14.0	0 36.2	1.29 1517	654	16	18.7
	26	22	30	39.69	6.06	10 11 50.2	0 40.1	1.29 0863	643	16	10.8
	28	22	30	33.63	6.74	10 12 30.3	0 43.9	1.29 0220	630	16	2.8
	30	22	30	26.89	7.39	10 13 14.2	0 47.8	1.28 9590	618	15	54.8
Juli	2	22	30	19.50	8.05	10 14 2.0	0 51.4	1.28 8972	604	15	46.8
	4	22	30	11.45	8.68	10 14 53.4	0 55.0	1.28 8368	590	15	38.8
	6	22	30	2.77	9.32	—10 15 48.4	0 58.6	1.28 7778	574	15	30.8
	8	22	29	53.45	9.93	10 16 47.0	1 2.1	1.28 7204	558	15	22.8
	10	22	29	43.52	10.53	10 17 49.1	1 5.5	1.28 6646	541	15	14.7
	12	22	29	32.99	11.11	10 18 54.6	1 8.7	1.28 6105	524	15	6.7
	14	22	29	21.88	11.68	10 20 3.3	1 11.8	1.28 5581	505	14	58.6
	16	22	29	10.20	12.24	10 21 15.1	1 14.9	1.28 5076	486	14	50.6
	18	22	28	57.96	12.76	—10 22 30.0	1 17.8	1.28 4590	466	14	42.5
	20	22	28	45.20	13.27	10 23 47.8	1 20.5	1.28 4124	446	14	34.4
	22	22	28	31.93	13.74	10 25 8.3	1 23.1	1.28 3678	425	14	26.3
	24	22	28	18.19	14.22	10 26 31.4	1 25.7	1.28 3253	403	14	18.2
	26	22	28	3.97	14.65	10 27 57.1	1 28.0	1.28 2850	380	14	10.1
	28	22	27	49.32	15.06	10 29 25.1	1 30.1	1.28 2470	358	14	2.0
	30	22	27	34.26	15.46	—10 30 55.2	1 32.3	1.28 2112	335	13	53.9
Aug.	1	22	27	18.80	15.83	10 32 27.5	1 34.2	1.28 1777	311	13	45.8
	3	22	27	2.97	16.18	10 34 1.7	1 35.9	1.28 1466	287	13	37.7
	5	22	26	46.79	16.50	10 35 37.6	1 37.6	1.28 1179	262	13	29.6
	7	22	26	30.29	16.80	10 37 15.2	1 39.2	1.28 0917	237	13	21.4
	9	22	26	13.49	17.07	10 38 54.4	1 40.4	1.28 0680	212	13	13.3
	11	22	25	56.42	17.31	—10 40 34.8	1 41.6	1.28 0468	186	13	5.1
	13	22	25	39.11	17.53	10 42 16.4	1 42.5	1.28 0282	159	12	57.0
	15	22	25	21.58	17.71	10 43 58.9	1 43.3	1.28 0123	133	12	48.8
	17	22	25	3.87	17.86	10 45 42.2	1 43.8	1.27 9990	106	12	40.7
	19	22	24	46.01	17.99	10 47 26.0	1 44.3	1.27 9884	79	12	32.5
	21	22	24	28.02	18.07	10 49 10.3	1 44.6	1.27 9805	52	12	24.4
	23	22	24	9.95	18.14	—10 50 54.9	1 44.7	1.27 9753	25	12	16.2
	25	22	23	51.81	18.17	10 52 39.6	1 44.6	1.27 9728	2	12	8.0
	27	22	23	33.64	18.17	10 54 24.2	1 44.4	1.27 9730	29	11	59.8
	29	22	23	15.47	18.15	10 56 8.6	1 43.9	1.27 9759	57	11	51.6
	31	22	22	57.32	18.09	10 57 52.5	1 43.4	1.27 9816	83	11	43.5
Sept.	2	22	22	39.23		10 59 35.9		1.27 9899		11	35.3

Tag	O <sup>h</sup> mittlere Zeit Greenwich			log Δ	Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination			
1920					
Sept. 2	<sup>h</sup> 22 <sup>m</sup> 22 <sup>s</sup> 39.23	18.02	— I <sup>o</sup> 59 35.9	I.27 9899	<sup>h</sup> II <sup>m</sup> 35.3
4	22 22 21.21	17.90	II 1 18.5	I.28 0009	II 27.2
6	22 22 3.31	17.76	II 3 0.2	I.28 0146	II 19.0
8	22 21 45.55	17.59	II 4 40.8	I.28 0311	II 10.9
10	22 21 27.96	17.39	II 6 20.2	I.28 0502	II 2.7
12	22 21 10.57	17.15	II 7 58.1	I.28 0719	IO 54.6
14	22 20 53.42	16.88	— II 9 34.4	I.28 0963	IO 46.4
16	22 20 36.54	16.59	II 11 9.0	I.28 1232	IO 38.3
18	22 20 19.95	16.27	II 12 41.6	I.28 1527	IO 30.1
20	22 20 3.68	15.90	II 14 12.1	I.28 1847	IO 22.0
22	22 19 47.78	15.54	II 15 40.3	I.28 2192	IO 13.9
24	22 19 32.24	15.12	II 17 6.2	I.28 2561	IO 5.8
26	22 19 17.12	14.70	— II 18 29.6	I.28 2952	9 57.7
28	22 19 2.42	14.25	II 19 50.3	I.28 3367	9 49.6
30	22 18 48.17	13.77	II 21 8.3	I.28 3805	9 41.5
Okt. 2	22 18 34.40	13.28	II 22 23.3	I.28 4265	9 33.4
4	22 18 21.12	12.76	II 23 35.4	I.28 4745	9 25.3
6	22 18 8.36	12.21	II 24 44.3	I.28 5247	9 17.2
8	22 17 56.15	11.64	— II 25 49.9	I.28 5768	9 9.1
10	22 17 44.51	11.05	II 26 52.2	I.28 6309	9 1.1
12	22 17 33.46	10.44	II 27 50.9	I.28 6869	8 53.0
14	22 17 23.02	9.80	II 28 46.0	I.28 7446	8 45.0
16	22 17 13.22	9.16	II 29 37.4	I.28 8041	8 37.0
18	22 17 4.06	8.50	II 30 25.0	I.28 8651	8 29.0
20	22 16 55.56	7.81	— II 31 8.8	I.28 9277	8 21.0
22	22 16 47.75	7.12	II 31 48.6	I.28 9917	8 13.0
24	22 16 40.63	6.42	II 32 24.4	I.29 0571	8 5.0
26	22 16 34.21	5.70	II 32 56.1	I.29 1237	7 57.0
28	22 16 28.51	4.98	II 33 23.7	I.29 1915	7 49.0
30	22 16 23.53	4.24	II 33 47.2	I.29 2604	7 41.1
Nov. 1	22 16 19.29	3.50	— II 34 6.4	I.29 3304	7 33.2
3	22 16 15.79	2.74	II 34 21.4	I.29 4012	7 25.3
5	22 16 13.05	1.98	II 34 32.1	I.29 4730	7 17.4
7	22 16 11.07	1.21	II 34 38.5	I.29 5454	7 9.5
9	22 16 9.86	0.43	II 34 40.4	I.29 6186	7 1.6
11	22 16 9.43	0.35	II 34 37.9	I.29 6922	6 53.7
13	22 16 9.78	1.14	— II 34 30.9	I.29 7664	6 45.8
15	22 16 10.92	1.93	II 34 19.6	I.29 8409	6 38.0
17	22 16 12.85	2.70	II 34 3.8	I.29 9157	6 30.2
19	22 16 15.55	3.49	II 33 43.6	I.29 9906	6 22.4
21	22 16 19.04	4.27	II 33 19.0	I.30 0656	6 14.6
23	22 16 23.31		II 32 50.1	I.30 1406	6 6.8



Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
Nov. 23	22 <sup>n</sup> 16 <sup>m</sup> 23.31 <sup>s</sup> 5.05	—II 32 50.1 0 33.4	I.30 1406 750	6 <sup>h</sup> 6.8 <sup>m</sup>
25	22 16 28.36 5.81	II 32 16.7 0 37.6	I.30 2156 747	5 59.0
27	22 16 34.17 6.58	II 31 39.1 0 42.0	I.30 2903 745	5 51.2
29	22 16 40.75 7.35	II 30 57.1 0 46.3	I.30 3648 741	5 43.4
Dez. 1	22 16 48.10 8.10	II 30 10.8 0 50.5	I.30 4389 737	5 35.7
3	22 16 56.20 8.86	II 29 20.3 0 54.7	I.30 5126 732	5 28.0
5	22 17 5.06 9.60	—II 28 25.6 0 59.0	I.30 5858 726	5 20.3
7	22 17 14.66 10.34	II 27 26.6 1 3.1	I.30 6584 719	5 12.6
9	22 17 25.00 11.08	II 26 23.5 1 7.2	I.30 7303 712	5 4.9
11	22 17 36.08 11.79	II 25 16.3 1 11.1	I.30 8015 702	4 57.2
13	22 17 47.87 12.49	II 24 5.2 1 15.2	I.30 8717 694	4 49.6
15	22 18 0.36 13.20	II 22 50.0 1 19.1	I.30 9411 683	4 41.9
17	22 18 13.56 13.87	—II 21 30.9 1 22.8	I.31 0094 672	4 34.3
19	22 18 27.43 14.53	II 20 8.1 1 26.6	I.31 0766 661	4 26.6
21	22 18 41.96 15.18	II 18 41.5 1 30.3	I.31 1427 648	4 19.0
23	22 18 57.14 15.81	II 17 11.2 1 33.8	I.31 2075 636	4 11.4
25	22 19 12.95 16.44	II 15 37.4 1 37.3	I.31 2711 622	4 3.8
27	22 19 29.39 17.04	II 14 0.1 1 40.6	I.31 3333 608	3 56.2
29	22 19 46.43 17.62	—II 12 19.5 1 44.0	I.31 3941 593	3 48.6
31	22 20 4.05 18.20	II 10 35.5 1 47.3	I.31 4534 578	3 41.0
33	22 20 22.25	II 8 48.2	I.31 5112	3 33.5

Tag	O <sup>b</sup> mittlere Zeit Greenwich			Obere Kul- mination in Green- wich
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ	
1920				
Jan. 0	8 <sup>h</sup> 53 <sup>m</sup> 41.09 <sup>s</sup> 22.61	+17° 27' 18.7" 1 34.7	1.46 5682 517	14 <sup>h</sup> 15.8 <sup>m</sup>
4	8 53 18.48 23.77	17 28 53.4 1 39.2	1.46 5165 452	13 59.7
8	8 52 54.71 24.77	17 30 32.6 1 43.0	1.46 4713 385	13 43.6
12	8 52 29.94 25.61	17 32 15.6 1 46.3	1.46 4328 315	13 27.5
16	8 52 4.33 26.30	17 34 1.9 1 48.8	1.46 4013 243	13 11.3
20	8 51 38.03 26.80	17 35 50.7 1 50.6	1.46 3770 170	12 55.1
24	8 51 11.23 27.13	+17 37 41.3 1 51.6	1.46 3600 96	12 39.0
28	8 50 44.10 27.26	17 39 32.9 1 51.9	1.46 3504 22	12 22.8
Febr. 1	8 50 16.84 27.21	17 41 24.8 1 51.5	1.46 3482 53	12 6.6
5	8 49 49.63 27.00	17 43 16.3 1 50.4	1.46 3535 126	11 50.4
9	8 49 22.63 26.63	17 45 6.7 1 48.6	1.46 3661 199	11 34.3
13	8 48 56.00 26.08	17 46 55.3 1 46.3	1.46 3860 271	11 18.1
17	8 48 29.92 25.34	+17 48 41.6 1 43.0	1.46 4131 341	11 1.9
21	8 48 4.58 24.45	17 50 24.6 1 39.3	1.46 4472 409	10 45.8
25	8 47 40.13 23.38	17 52 3.9 1 34.9	1.46 4881 475	10 39.7
29	8 47 16.75 22.19	17 53 38.8 1 30.0	1.46 5356 537	10 13.6
März 4	8 46 54.56 20.85	17 55 8.8 1 24.7	1.46 5893 595	9 57.5
8	8 46 33.71 19.39	17 56 33.5 1 18.7	1.46 6488 651	9 41.4
12	8 46 14.32 17.81	+17 57 52.2 1 12.5	1.46 7139 704	9 25.3
16	8 45 56.51 16.12	17 59 4.7 1 5.7	1.46 7843 752	9 9.3
20	8 45 40.39 14.32	18 0 10.4 0 58.5	1.46 8595 795	8 53.3
24	8 45 26.07 12.43	18 1 8.9 0 51.2	1.46 9390 835	8 37.4
28	8 45 13.64 10.46	18 2 0.1 0 43.5	1.47 0225 870	8 21.4
April 1	8 45 3.18 8.45	18 2 43.6 0 35.6	1.47 1095 899	8 5.5
5	8 44 54.73 6.40	+18 3 19.2 0 27.6	1.47 1994 925	7 49.7
9	8 44 48.33 4.29	18 3 46.8 0 19.5	1.47 2919 946	7 33.8
13	8 44 44.04 2.15	18 4 6.3 0 11.1	1.47 3865 963	7 18.0
17	8 44 41.89 0.01	18 4 17.4 0 2.7	1.47 4828 974	7 2.3
21	8 44 41.90 2.18	18 4 20.1 0 5.7	1.47 5802 981	6 46.6
25	8 44 44.08 4.35	18 4 14.4 0 14.0	1.47 6783 983	6 30.9
29	8 44 48.43 6.47	+18 4 0.4 0 22.3	1.47 7766 980	6 15.2
Mai 3	8 44 54.90 8.59	18 3 38.1 0 30.6	1.47 8746 973	5 59.6
7	8 45 3.49 10.67	18 3 7.5 0 38.7	1.47 9719 963	5 44.0
11	8 45 14.16 12.72	18 2 28.8 0 46.7	1.48 0682 948	5 28.5
15	8 45 26.88 14.72	18 1 42.1 0 54.6	1.48 1630 929	5 13.0
19	8 45 41.60 16.67	18 0 47.5 1 2.2	1.48 2559 905	4 57.5
23	8 45 58.27 18.54	+17 59 45.3 1 9.7	1.48 3464 878	4 42.0
27	8 46 16.81 20.34	17 58 35.6 1 16.8	1.48 4342 847	4 26.6
31	8 46 37.15 22.06	17 57 18.8 1 23.7	1.48 5189 813	4 11.2
Juni 4	8 46 59.21 23.69	17 55 55.1 1 30.4	1.48 6002 777	3 55.9
8	8 47 22.90 25.26	17 54 24.7 1 36.7	1.48 6779 737	3 40.5
12	8 47 48.16	17 52 48.0	1.48 7516	3 25.2

Tag	O <sup>h</sup> mittlere Zeit Greenwich			Obere Kulmination in Greenwich	
	Scheinbare Rektaszension	Scheinbare Deklination	log Δ		
1920					
Juni	12	8 <sup>h</sup> 47 <sup>m</sup> 48. <sup>s</sup> 16 26.73	+17 52 48.0 1 42.7	1.48 7516 695	3 <sup>h</sup> 25. <sup>m</sup> 2
	16	8 48 14.89 28.10	17 51 5.3 1 48.5	1.48 8211 648	3 9.9
	20	8 48 42.99 29.37	17 49 16.8 1 53.8	1.48 8859 601	2 54.7
	24	8 49 12.36 30.53	17 47 23.0 1 58.7	1.48 9460 550	2 39.4
Juli	28	8 49 42.89 31.57	17 45 24.3 2 3.2	1.49 0010 497	2 24.2
	2	8 50 14.46 32.52	17 43 21.1 2 7.3	1.49 0507 445	2 9.0
	6	8 50 46.98 33.36	+17 41 13.8 2 11.1	1.49 0952 389	1 53.8
	10	8 51 20.34 34.08	17 39 2.7 2 14.5	1.49 1341 331	1 38.7
	14	8 51 54.42 34.70	17 36 48.2 2 17.3	1.49 1672 273	1 23.5
	18	8 52 29.12 35.18	17 34 30.9 2 19.7	1.49 1945 214	1 8.3
	22	8 53 4.30 35.55	17 32 11.2 2 21.5	1.49 2159 153	0 53.2
	26	8 53 39.85 35.77	17 29 49.7 2 23.0	1.49 2312 92	0 38.1
	30	8 54 15.62 35.90	+17 27 26.7 2 24.1	1.49 2404 32	0 22.9
	Aug.	3	8 54 51.52 35.91	17 25 2.6 2 24.5	1.49 2436 30
	7	8 55 27.43 35.80	17 22 38.1 2 24.5	1.49 2406 91	23 48.8
	11	8 56 3.23 35.57	17 20 13.6 2 24.0	1.49 2315 152	23 33.7
	15	8 56 38.80 35.21	17 17 49.6 2 22.9	1.49 2163 214	23 18.6
	19	8 57 14.01 34.72	17 15 26.7 2 21.4	1.49 1949 274	23 3.4
	23	8 57 48.73 34.10	+17 13 5.3 2 19.2	1.49 1675 333	22 48.3
	27	8 58 22.83 33.40	17 10 46.1 2 16.6	1.49 1342 391	22 33.1
	31	8 58 56.23 32.54	17 8 29.5 2 13.6	1.49 0951 447	22 18.0
Sept.	4	8 59 28.77 31.62	17 6 15.9 2 9.9	1.49 0504 503	22 2.8
	8	9 0 0.39 30.55	17 4 6.0 2 5.8	1.49 0001 556	21 47.6
	12	9 0 30.94 29.37	17 2 0.2 2 1.2	1.48 9445 609	21 32.3
	16	9 1 0.31 28.07	+16 59 59.0 1 55.9	1.48 8836 658	21 17.1
	20	9 1 28.38 26.67	16 58 3.1 1 50.3	1.48 8178 704	21 1.8
	24	9 1 55.05 25.20	16 56 12.8 1 44.2	1.48 7474 749	20 46.5
	28	9 2 20.25 23.61	16 54 28.6 1 37.7	1.48 6725 789	20 31.2
Okt.	2	9 2 43.86 21.95	16 52 50.9 1 30.8	1.48 5936 828	20 15.9
	6	9 3 5.81 20.18	16 51 20.1 1 23.3	1.48 5108 863	20 0.5
	10	9 3 25.99 18.34	+16 49 56.8 1 15.6	1.48 4245 894	19 45.1
	14	9 3 44.33 16.41	16 48 41.2 1 7.5	1.48 3351 922	19 29.7
	18	9 4 0.74 14.42	16 47 33.7 0 59.0	1.48 2429 945	19 14.2
	22	9 4 15.16 12.38	16 46 34.7 0 50.3	1.48 1484 964	18 58.7
	26	9 4 27.54 10.31	16 45 44.4 0 41.4	1.48 0520 979	18 43.2
	30	9 4 37.85 8.18	16 45 3.0 0 32.3	1.47 9541 989	18 27.6
Nov.	3	9 4 46.03 6.02	+16 44 30.7 0 22.9	1.47 8552 995	18 12.0
	7	9 4 52.05 3.83	16 44 7.8 0 13.5	1.47 7557 997	17 56.4
	11	9 4 55.88 1.62	16 43 54.3 0 4.0	1.47 6560 993	17 40.7
	15	9 4 57.50 0.58	16 43 50.3 0 5.5	1.47 5567 983	17 25.0
	19	9 4 56.92 2.75	16 43 55.8 0 14.9	1.47 4584 970	17 9.3
	23	9 4 54.17	16 44 10.7	1.47 3614	16 53.5

Tag	O <sup>h</sup> mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
<b>1920</b>							
Nov. 23	9 <sup>h</sup> 4 <sup>m</sup> 54.17 <sup>s</sup>	4.92	+16° 44' 10.7"	0 24.2	1.47 3614	951	16 <sup>h</sup> 53.5 <sup>m</sup>
27	9 4 49.25	7.03	16 44 34.9	0 33.3	1.47 2663	927	16 37.7
Dez. 1	9 4 42.22	9.12	16 45 8.2	0 42.3	1.47 1736	899	16 21.8
5	9 4 33.10	11.14	16 45 50.5	0 51.0	1.47 0837	866	16 5.9
9	9 4 21.96	13.10	16 46 41.5	0 59.3	1.46 9971	827	15 50.0
13	9 4 8.86	14.97	16 47 40.8	1 7.3	1.46 9144	784	15 34.1
17	9 3 53.89	16.74	+16 48 48.1	1 14.8	1.46 8360	736	15 18.1
21	9 3 37.15	18.38	16 50 2.9	1 21.7	1.46 7624	685	15 2.1
25	9 3 18.77	19.93	16 51 24.6	1 28.2	1.46 6939	629	14 46.1
29	9 2 58.84	21.34	16 52 52.8	1 34.1	1.46 6310	571	14 30.0
33	9 2 37.50		16 54 26.9		1.46 5739		14 13.9

## 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
<b>MERKUR 1920</b>									
1920					1920				
Jan. 0.0	9.6335	208° 22'	+ 8'	+2° 17'	Juli 3.0	9.6619	235° 42'	- 4'	-1° 0'
5.0	9.6519	223 53	+ 2	+0 26	8.0	9.6683	249 42	- 9	-2 39
10.0	9.6636	238 22	- 5	-1 19	13.0	9.6681	263 30	-12	-4 7
15.0	9.6688	252 17	-10	-2 56	18.0	9.6615	277 30	-13	-5 22
20.0	9.6674	266 6	-13	-4 22	23.0	9.6482	292 11	-10	-6 20
25.0	9.6595	280 12	-12	-5 34	28.0	9.6282	308 1	- 4	-6 54
30.0	9.6449	295 3	- 9	-6 28	Aug. 2.0	9.6017	325 40	+ 4	-6 56
Febr. 4.0	9.6237	311 10	- 3	-6 58	7.0	9.5697	345 52	+11	-6 9
9.0	9.5961	329 14	+ 5	-6 51	12.0	9.5353	9 27	+12	-4 18
14.0	9.5633	350 1	+12	-5 54	17.0	9.5050	36 55	+ 5	-1 17
19.0	9.5290	14 19	+12	-3 49	22.0	9.4887	67 36	- 8	+2 24
24.0	9.5006	42 29	+ 2	-0 36	27.0	9.4937	99 6	-13	+5 29
29.0	9.4879	73 32	-10	+3 4	Sept. 1.0	9.5176	128 31	- 4	+6 55
März 5.0	9.4970	104 52	-12	+5 54	6.0	9.5508	154 14	+ 7	+6 42
10.0	9.5234	133 39	- 2	+6 59	11.0	9.5847	176 12	+13	+5 27
15.0	9.5573	158 37	+ 9	+6 32	16.0	9.6144	195 8	+12	+3 44
20.0	9.5907	179 57	+13	+5 9	21.0	9.6381	211 53	+ 7	+1 53
25.0	9.6194	198 25	+11	+3 23	26.0	9.6550	227 7	0	+0 2
30.0	9.6418	214 50	+ 5	+1 32	Okt. 1.0	9.6653	241 26	- 6	-1 41
April 4.0	9.6574	229 52	- 1	-0 18	6.0	9.6690	255 18	-11	-3 16
9.0	9.6665	244 4	- 7	-2 0	11.0	9.6662	269 8	-13	-4 39
14.0	9.6690	257 53	-11	-3 32	16.0	9.6569	283 21	-12	-5 47
19.0	9.6650	271 46	-13	-4 53	21.0	9.6409	298 26	- 8	-6 37
24.0	9.6544	286 7	-11	-5 59	26.0	9.6182	314 56	- 1	-7 0
29.0	9.6371	301 25	- 7	-6 44	31.0	9.5893	333 31	+ 7	-6 44
Mai 4.0	9.6132	318 14	0	-7 0	Nov. 5.0	9.5557	355 0	+12	-5 33
9.0	9.5832	337 18	+ 8	-6 35	10.0	9.5220	20 8	+10	-3 12
14.0	9.5492	359 25	+13	-5 12	15.0	9.4961	49 5	- 1	+0 12
19.0	9.5162	25 18	+ 9	-2 38	20.0	9.4881	80 28	-12	+3 49
24.0	9.4930	54 52	- 3	+0 54	25.0	9.5016	111 26	-10	+6 17
29.0	9.4890	86 25	-13	+4 24	30.0	9.5305	139 26	+ 1	+7 0
Juni 3.0	9.5061	116 59	- 8	+6 34	Dez. 5.0	9.5648	163 34	+10	+6 17
8.0	9.5368	144 16	+ 3	+6 57	10.0	9.5974	184 12	+13	+4 48
13.0	9.5713	167 41	+11	+6 3	15.0	9.6248	202 9	+10	+2 59
18.0	9.6030	187 45	+13	+4 28	20.0	9.6458	218 13	+ 4	+1 7
23.0	9.6293	205 18	+ 9	+2 38	25.0	9.6600	233 1	- 2	-0 41
28.0	9.6489	221 4	+ 3	+0 46	30.0	9.6676	247 6	- 8	-2 21
Juli 3.0	9.6619	235 42	- 4	-1 0	35.0	9.6687	260 54	-12	-3 51

$$\delta = 47^{\circ} 26'.9; \quad i = 7^{\circ} 0'.22; \quad m = \frac{1}{6000000}$$

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 1920				MARS 1920			
1920									
Jan. 0.0	9.85690	165° 31.0	-0.1	+3° 23.6	0.22143	160° 28.0	+0.6	+1° 43.3	
10.0	9.85747	181 41.9	+1.6	+3 16.0	0.22096	164 50.4	+0.7	+1 39.9	
20.0	9.85818	197 49.9	+2.7	+2 53.0	0.22023	169 13.5	+0.8	+1 35.9	
30.0	9.85897	213 54.6	+3.0	+2 16.5	0.21924	173 37.7	+0.8	+1 31.3	
Febr. 9.0	9.85979	229 55.6	+2.4	+1 29.5	0.21800	178 3.2	+0.9	+1 26.2	
19.0	9.86057	245 53.1	+1.0	+0 35.8	0.21652	182 30.4	+0.9	+1 20.5	
29.0	9.86126	261 47.4	-0.6	-0 20.5	0.21479	186 59.6	+0.9	+1 14.3	
März 10.0	9.86179	277 38.9	-2.1	-1 15.0	0.21282	191 31.1	+0.9	+1 7.5	
20.0	9.86214	293 28.6	-2.9	-2 3.8	0.21062	196 5.2	+0.8	+1 0.3	
30.0	9.86227	309 17.1	-2.9	-2 43.2	0.20820	200 42.3	+0.8	+0 52.6	
April 9.0	9.86218	325 5.6	-2.0	-3 10.2	0.20557	205 22.6	+0.7	+0 44.5	
19.0	9.86187	340 55.0	-0.5	-3 22.8	0.20273	210 6.4	+0.5	+0 35.9	
29.0	9.86136	356 46.2	+1.1	-3 20.0	0.19971	214 54.1	+0.4	+0 27.0	
Mai 9.0	9.86070	12 39.9	+2.4	-3 2.0	0.19651	219 45.9	+0.3	+0 17.8	
19.0	9.85993	28 36.8	+3.0	-2 29.9	0.19316	224 42.2	+0.1	+0 8.3	
29.0	9.85911	44 37.2	+2.7	-1 46.0	0.18968	229 43.2	0.0	-0 1.4	
Juni 8.0	9.85831	60 41.3	+1.5	-0 53.8	0.18608	234 49.1	-0.2	-0 11.3	
18.0	9.85758	76 48.7	-0.1	+0 2.8	0.18240	240 0.2	-0.3	-0 21.2	
28.0	9.85699	92 59.2	-1.7	+0 59.4	0.17865	245 16.7	-0.5	-0 31.1	
Juli 8.0	9.85659	109 11.9	-2.8	+1 51.4	0.17488	250 38.7	-0.6	-0 41.0	
18.0	9.85639	125 25.9	-3.0	+2 34.6	0.17111	256 6.3	-0.7	-0 50.6	
28.0	9.85644	141 40.3	-2.3	+3 5.5	0.16738	261 39.7	-0.8	-0 59.9	
Aug. 7.0	9.85671	157 53.9	-0.8	+3 21.6	0.16373	267 18.8	-0.9	-1 8.8	
17.0	9.85719	174 5.9	+0.8	+3 21.6	0.16020	273 3.5	-0.9	-1 17.2	
27.0	9.85783	190 15.3	+2.2	+3 5.7	0.15684	278 53.7	-0.9	-1 24.9	
Sept. 6.0	9.85859	206 21.6	+3.0	+2 35.2	0.15367	284 49.3	-0.8	-1 31.9	
16.0	9.85941	222 24.4	+2.8	+1 52.7	0.15075	290 49.9	-0.7	-1 37.9	
26.0	9.86022	238 23.5	+1.7	+1 1.6	0.14812	296 55.2	-0.6	-1 42.9	
Okt. 6.0	9.86095	254 19.2	+0.2	+0 6.0	0.14582	303 4.6	-0.5	-1 46.8	
16.0	9.86156	270 11.9	-1.4	-0 49.9	0.14388	309 17.6	-0.3	-1 49.4	
26.0	9.86200	286 2.3	-2.6	-1 41.9	0.14233	315 33.7	-0.1	-1 50.8	
Nov. 5.0	9.86223	301 51.3	-3.0	-2 26.1	0.14121	321 52.1	+0.1	-1 50.9	
15.0	9.86225	317 39.7	-2.5	-2 59.2	0.14052	328 12.0	+0.3	-1 49.6	
25.0	9.86203	333 28.6	-1.3	-3 18.8	0.14029	334 32.8	+0.5	-1 47.0	
Dez. 5.0	9.86162	349 18.8	+0.3	-3 23.3	0.14051	340 53.6	+0.6	-1 43.0	
15.0	9.86102	5 11.3	+1.9	-3 12.3	0.14118	347 13.6	+0.7	-1 37.8	
25.0	9.86030	21 6.7	+2.8	-2 46.6	0.14229	353 32.0	+0.8	-1 31.5	
35.0	9.85949	37 5.4	+2.9	-2 7.9	0.14382	359 48.2	+0.9	-1 24.1	
		$\Omega = 76^\circ 1'.1$ ;	$i = 3^\circ 23'.64$			$\Omega = 48^\circ 59'.6$ ;	$i = 1^\circ 51'.04$		
		$\mu = \frac{1}{408000}$				$\mu = \frac{1}{3093500}$			

## Mittleres Äquinoktium 1925.0

Mittlere Zeit Greenwich	log <i>R</i>	Länge	log <i>r</i>	Länge in der Bahn	Red. auf d. Eklipt.	Breite	<i>B</i> <sub>0</sub>
<b>ERDE 1920</b>		<b>JUPITER 1920</b>					
1920							
Jan. 0.0	9.99268	98° 50.5	0.724850	130° 31' 30.4	-23.6	+0° 40' 17.6	+5.9
10.0	9.99273	109 2.1	0.725113	131 19 20.6	-24.0	+0 41 13.6	+5.9
20.0	9.99300	119 13.2	0.725374	132 7 7.3	-24.3	+0 42 9.0	+5.9
30.0	9.99349	129 23.2	0.725633	132 54 50.6	-24.6	+0 43 3.9	+6.0
Febr. 9.0	9.99418	139 31.5	0.725890	133 42 30.5	-24.9	+0 43 58.3	+6.0
19.0	9.99504	149 37.7	0.726144	134 30 7.0	-25.2	+0 44 52.1	+6.0
29.0	9.99605	159 41.3	0.726396	135 17 40.1	-25.4	+0 45 45.4	+6.0
März 10.0	9.99717	169 41.9	0.726646	136 5 10.0	-25.6	+0 46 38.0	+6.0
20.0	9.99837	179 39.3	0.726893	136 52 36.6	-25.8	+0 47 30.0	+6.0
30.0	9.99962	189 33.3	0.727138	137 40 0.0	-26.0	+0 48 21.5	+6.0
April 9.0	0.00087	199 23.9	0.727381	138 27 20.2	-26.2	+0 49 12.3	+6.0
19.0	0.00208	209 11.2	0.727621	139 14 37.3	-26.4	+0 50 2.5	+6.0
29.0	0.00323	218 55.3	0.727859	140 1 51.3	-26.5	+0 50 52.1	+6.0
Mai 9.0	0.00428	228 36.4	0.728094	140 49 2.2	-26.6	+0 51 41.1	+6.1
19.0	0.00520	238 14.9	0.728327	141 36 10.0	-26.7	+0 52 29.4	+6.1
29.0	0.00597	247 51.1	0.728557	142 23 14.8	-26.8	+0 53 17.1	+6.1
Juni 8.0	0.00657	257 25.5	0.728785	143 10 16.7	-26.8	+0 54 4.1	+6.1
18.0	0.00698	266 58.6	0.729010	143 57 15.7	-26.8	+0 54 50.4	+6.1
28.0	0.00719	276 30.8	0.729233	144 44 11.8	-26.8	+0 55 36.1	+6.1
Juli 8.0	0.00719	286 2.8	0.729452	145 31 5.0	-26.8	+0 56 21.2	+6.1
18.0	0.00699	295 35.1	0.729668	146 17 55.4	-26.8	+0 57 5.7	+6.1
28.0	0.00660	305 8.1	0.729882	147 4 43.1	-26.8	+0 57 49.4	+6.1
Aug. 7.0	0.00601	314 42.4	0.730093	147 51 28.0	-26.7	+0 58 32.4	+6.1
17.0	0.00525	324 18.5	0.730302	148 38 10.2	-26.6	+0 59 14.7	+6.1
27.0	0.00434	333 56.8	0.730507	149 24 49.7	-26.5	+0 59 56.3	+6.1
Sept. 6.0	0.00330	343 37.8	0.730710	150 11 26.6	-26.4	+1 0 37.2	+6.1
16.0	0.00216	353 21.7	0.730909	150 58 0.9	-26.2	+1 1 17.4	+6.1
26.0	0.00095	3 8.7	0.731106	151 44 32.6	-26.1	+1 1 56.9	+6.1
Okt. 6.0	9.99970	12 59.1	0.731300	152 31 1.9	-25.9	+1 2 35.7	+6.1
16.0	9.99845	22 52.9	0.731490	153 17 28.8	-25.7	+1 3 13.8	+6.1
26.0	9.99725	32 50.1	0.731678	154 3 53.2	-25.4	+1 3 51.2	+6.1
Nov. 5.0	9.99613	42 50.5	0.731862	154 50 15.2	-25.2	+1 4 27.8	+6.1
15.0	9.99511	52 53.9	0.732044	155 36 34.8	-24.9	+1 5 3.7	+6.1
25.0	9.99423	62 59.9	0.732222	156 22 52.2	-24.6	+1 5 38.9	+6.1
Dez. 5.0	9.99353	73 8.1	0.732397	157 9 7.3	-24.4	+1 6 13.3	+6.1
15.0	9.99303	83 18.0	0.732569	157 55 20.2	-24.1	+1 6 47.0	+6.1
25.0	9.99274	93 29.1	0.732738	158 41 30.9	-23.7	+1 7 19.9	+6.1
35.0	[9.99267]	[103 40.8]	0.732903	159 27 39.6	-23.4	+1 7 52.1	+6.1

$$m = \frac{1}{329390}$$

$$\Omega = 99^\circ 41' 52''.2; \quad i = 1^\circ 18' 26''.4; \quad m = \frac{1}{1047.35}$$

## Mittleres Äquinoktium 1925.0

Mittlere Zeit Greenwich	log $r$	Länge in der Bahn	Red. auf die Ekliptik	Breite	$B_0$
SATURN 1920					
1919 Dez. 11.0	0.968148	155° 36' 19.3	-97.2	+ 1° 40' 57.7	-11.9
1920 Jan. 20.0	0.968674	157° 0' 52.9	-97.5	+ 1° 43' 38.2	-12.0
Febr. 29.0	0.969205	158° 25' 14.1	-97.5	+ 1° 46' 14.5	-12.0
April 9.0	0.969741	159° 49' 22.9	-97.3	+ 1° 48' 46.7	-12.0
Mai 19.0	0.970280	161° 13' 19.1	-96.9	+ 1° 51' 14.7	-12.0
Juni 28.0	0.970822	162° 37' 2.7	-96.3	+ 1° 53' 38.3	-12.0
Aug. 7.0	0.971368	164° 0' 33.7	-95.4	+ 1° 55' 57.5	-12.0
Sept. 16.0	0.971916	165° 23' 51.9	-94.3	+ 1° 58' 12.2	-12.0
Okt. 26.0	0.972466	166° 46' 57.4	-93.0	+ 2° 0' 22.5	-12.0
1920 Dez. 5.0	0.973018	168° 9' 50.2	-91.5	+ 2° 2' 28.2	-11.9
1921 Jan. 14.0	0.973572	169° 32' 30.4	-89.8	+ 2° 4' 29.4	-11.9

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

## URANUS 1920

1919 Dez. 11.0	1.301870	330° 57' 47.8	- 4.0	- 0° 45' 13.2	+ 1.3
1920 Jan. 20.0	1.301919	331° 23' 31.4	- 3.9	- 0° 45' 17.6	+ 1.3
Febr. 29.0	1.301967	331° 49' 14.7	- 3.8	- 0° 45' 22.0	+ 1.3
April 9.0	1.302014	332° 14' 57.7	- 3.6	- 0° 45' 26.1	+ 1.3
Mai 19.0	1.302060	332° 40' 40.2	- 3.5	- 0° 45' 30.1	+ 1.4
Juni 28.0	1.302106	333° 6' 22.5	- 3.4	- 0° 45' 33.9	+ 1.4
Aug. 7.0	1.302150	333° 32' 4.4	- 3.2	- 0° 45' 37.6	+ 1.4
Sept. 16.0	1.302194	333° 57.45.9	- 3.1	- 0° 45' 41.1	+ 1.5
Okt. 26.0	1.302237	334° 23' 27.1	- 3.0	- 0° 45' 44.4	+ 1.5
1920 Dez. 5.0	1.302279	334° 49' 8.0	- 2.8	- 0° 45' 47.6	+ 1.6
1921 Jan. 14.0	1.302320	335° 14' 48.6	- 2.7	- 0° 45' 50.7	+ 1.6

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

## NEPTUN 1920

1919 Dez. 11.0	1.477935	129° 54' 57.7	+ 1.8	- 0° 1' 55.2	+ 0.2
1920 Jan. 20.0	1.477950	130° 9' 22.2	+ 1.4	- 0° 1' 28.4	+ 0.2
Febr. 29.0	1.477965	130° 23' 46.7	+ 1.0	- 0° 1' 1.6	+ 0.2
April 9.0	1.477980	130° 38' 11.1	+ 0.6	- 0° 0' 34.9	+ 0.1
Mai 19.0	1.477995	130° 52' 35.4	+ 0.2	- 0° 0' 8.1	+ 0.1
Juni 28.0	1.478009	131° 6' 59.6	- 0.2	+ 0° 0' 18.7	+ 0.1
Aug. 7.0	1.478024	131° 21' 23.8	- 0.7	+ 0° 0' 45.5	+ 0.1
Sept. 16.0	1.478038	131° 35' 47.9	- 1.1	+ 0° 1' 12.3	0.0
Okt. 26.0	1.478052	131° 50' 11.9	- 1.5	+ 0° 1' 39.0	0.0
1920 Dez. 5.0	1.478065	132° 4' 35.8	- 1.9	+ 0° 2' 5.8	0.0
1921 Jan. 14.0	1.478079	132° 18' 59.6	- 2.3	+ 0° 2' 32.6	0.0

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



# Mittlere und Scheinbare Sternörter 1920

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Reduktionsgrößen

Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o°.001	Dekl. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o°.001
1	$\alpha$ Androm.	2.1	A	<sup>h</sup> 4 <sup>m</sup> 14.918	+3.0969	+ 107	+28° 38' 55.61	+19.881	- 161
2	$\beta$ Cassiopeiae	2.2	F 5	o 4 53.929	+3.1873	+ 676	+58 42 30.69	+19.861	- 180
3	$\epsilon$ Phoenicis	3.8	K	o 5 21.229	+3.0501	+ 99	-46 11 20.26	+19.848	- 192
4	[22 Androm.]	5.2	F	o 6 9.367	+3.1102	+ 8	+45 37 37.38	+20.035	- 3
5	[ $\alpha^2$ Sculptoris]	5.5	K	o 7 30.810	+3.0495	+ 4	-28 14 43.82	+20.040	+ 6
6	[ $\theta$ Sculptoris]	5.3	F 5 p	o 7 40.053	+3.0511	+ 104	-35 34 51.56	+20.158	+ 124
7	$\gamma$ Pegasi	2.7	B 2	o 9 6.835	+3.0867	+ 1	+14 44 19.59	+20.016	- 14
8	[Br. 6]	6.5	A	o 11 40.166	+3.3629	+ 67	+76 30 22.66	+20.021	+ 2
9	$\iota$ Ceti	3.5	K	o 15 21.115	+3.0566	- 15	- 9 16 2.58	+19.968	- 32
10	$\zeta$ Tucanae	4.2	F 8	o 15 54.661	+3.1409	+2702	-65 20 42.07	+21.151	+1154
11	$\beta$ Hydri	2.8	G	o 21 34.229	+3.1936	+6972	-77 42 17.16	+20.275	+ 318
12	$\alpha$ Phoenicis	2.3	K	o 22 19.918	+2.9694	+ 168	-42 44 25.98	+19.541	- 409
13	$\iota_2$ Ceti	6.1	K	o 25 57.367	+3.0618	+ 8	- 4 23 57.32	+19.909	- 8
14	[Ceti 49 G.]	5.3	A 5	o 26 22.747	+3.0011	- 25	-24 13 48.86	+19.922	+ 9
15	[ $\lambda^1$ Phoenicis]	4.7	A 2	o 27 33.588	+2.8989	+ 123	-49 14 45.45	+19.912	+ 12
16	[ $\alpha$ Cassiop.]	4.2	B	o 28 26.403	+3.3915	+ 11	+62 29 25.60	+19.894	+ 3
17	$\zeta$ Cassiopeiae	3.8	B 2	o 32 30.293	+3.3299	+ 23	+53 27 24.47	+19.837	- 7
18	$\pi$ Androm.	4.2	B 3	o 32 36.199	+3.1987	+ 17	+33 16 44.84	+19.843	o
19	[ $\epsilon$ Androm.]	4.3	G 5	o 34 19.430	+3.1654	- 173	+28 52 39.18	+19.570	- 251
20	$\delta$ Androm.	3.2	K	o 35 2.724	+3.2028	+ 106	+30 25 24.40	+19.728	- 84
21	$\alpha$ Cassiopeiae	(2.2)	K	o 35 57.404	+3.3895	+ 60	+56 5 55.68	+19.770	- 29
22	$\beta$ Ceti	2.2	K	o 39 34.468	+3.0122	+ 160	-18 25 31.97	+19.786	+ 39
23	[ $\eta$ Phoenicis]	4.3	A	o 39 45.872	+2.7054	+ 5	-57 54 6.80	+19.736	- 8
25	$\circ$ Cassiopeiae	4.7	B 2	o 40 15.561	+3.3328	+ 22	+47 50 48.14	+19.729	- 8
26	[ $\lambda^2$ Sculptoris]	5.9	K 5	o 40 20.061	+2.9019	+ 178	-38 51 44.59	+19.850	+ 115
24	$\alpha_1$ Cassiopeiae	5.8	A 2	o 40 20.201	+3.9136	- 57	+74 33 3.55	+19.713	- 23
27	$\zeta$ Androm.	4.1	K	o 43 5.656	+3.1755	- 75	+23 49 55.83	+19.613	- 79
28	[ $\delta$ Piscium]	4.4	K 5	o 44 31.786	+3.1103	+ 52	+ 7 8 59.61	+19.622	- 46
31	[ $\lambda$ Hydri]	5.3	K 5	o 45 49.374	+2.0967	+ 399	-75 21 31.69	+19.619	- 26
29	[Br. 82]	5.7	F	o 45 51.501	+3.6187	+ 59	+63 48 44.23	+19.641	- 5
30	[19 Ceti]	5.4	F	o 46 7.177	+3.0045	- 159	-11 4 29.84	+19.418	- 223
32	$\gamma$ Cassiopeiae	2.0	B p	o 51 52.017	+3.6018	+ 37	+60 17 1.72	+19.530	- 4
34	[ $\lambda^3$ Tucanae]	5.3	G 5	o 52 1.066	+2.2451	- 33	-69 57 34.50	+19.486	- 45
33	$\mu$ Androm.	3.9	A 2	o 52 18.403	+3.3224	+ 129	+38 3 56.59	+19.562	+ 36
35	$\alpha$ Sculptoris	4.1	B 5	o 54 45.089	+2.8912	- 5	-29 47 22.97	+19.471	- 5
36	$\epsilon$ Piscium	4.2	G 5	o 58 47.352	+3.1116	- 55	+ 7 27 35.10	+19.420	+ 30
37	[26 Ceti]	6.2	A	o 59 41.922	+3.0864	+ 81	+ 0 56 17.76	+19.330	- 39
38	$\beta$ Phoenicis	3.2	K	I 2 30.876	+2.6790	- 56	-47 8 49.51	+19.289	- 15
39	[ $\iota$ Tucanae]	5.5	K	I 4 8.731	+2.3825	+ 100	-62 12 8.40	+19.261	- 4
40	[ $\eta$ Ceti]	3.3	K	I 4 33.876	+3.0169	+ 138	-10 36 21.77	+19.123	- 132

Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o°.0001	Dekl. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o°.001
42	β Androm.	2.1	Ma	1 <sup>h</sup> 5 <sup>m</sup> 14.829	+3.3525	+ 151	+35° 11' 48.41	+19.126	-113
41	[44 H. Ceph.]	5.7	A	1 5 18.241	+5.0842	+ 332	+79 14 55.28	+19.246	+ 9
43	[τ Piscium]	4.3	K p	1 7 14.972	+3.2984	+ 56	+29 39 54.58	+19.147	- 41
44	[Sculpt. 102 G.]	6.0	A 2	1 9 4.259	+2.7635	+ 39	-38 16 48.66	+19.115	- 27
45	υ Piscium	4.6	A 2	1 15 3.875	+3.2917	+ 15	+26 50 38.14	+18.969	- 11
47	θ Ceti	3.4	K	1 20 1.446	+2.9981	- 55	- 8 35 44.92	+18.622	-214
46	[ψ Cassiop.]	5.0	K	1 20 15.597	+4.2047	+ 135	+67 42 46.86	+18.861	+ 33
48	δ Cassiopeiae	2.7	A 5	1 20 34.095	+3.9038	+ 398	+59 49 12.04	+18.776	- 43
49	[γ Phoenicis]	3.2	K 5	1 24 53.492	+2.6062	- 38	-43 43 40.35	+18.468	-218
50	η Piscium	3.6	G 5	1 27 11.954	+3.2066	+ 15	+14 56 1.58	+18.605	- 7
51	40 Cassiopeiae	5.5	K	1 32 5.444	+4.7419	- 19	+72 37 58.72	+18.442	- 6
52	υ Persei	3.6	K	1 33 4.349	+3.6700	+ 64	+48 13 24.21	+18.302	-113
53	[Hydri 14 G.]	6.3	G 2	1 33 6.356	+0.3715	- 70	-78 54 39.08	+18.286	-128
54	α Eridani	1	B 5	1 34 44.237	+2.2376	+ 122	-57 38 34.47	+18.319	- 38
55	43 Cassiopeiae	5.9	A p	1 36 23.584	+4.4078	+ 88	+67 38 20.68	+18.296	- 2
56	[ν Piscium]	4.5	K	1 37 15.964	+3.1200	- 17	+ 5 4 59.46	+18.269	+ 2
58	[Sculpt. 129 G.]	5.8	A	1 38 31.357	+2.6437	- 58	-37 14 7.96	+18.198	- 23
57	φ Persei	4.1	B p	1 38 38.170	+3.7465	+ 26	+50 17 10.55	+18.203	- 15
59	τ Ceti	3.4	K	1 40 21.083	+2.7869	-1195	-16 21 30.38	+19.006	+852
60	ο Piscium	4.3	G 5	1 41 9.997	+3.1653	+ 47	+ 8 45 20.07	+18.174	+ 50
61	Lac. ε Sculpt.	5.3	A	1 41 53.905	+2.8091	+ 99	-25 27 8.19	+18.022	- 75
62	ζ Ceti	3.5	K	1 47 30.646	+2.9604	+ 22	-10 43 47.37	+17.846	- 34
64	α Trianguli	3.5	F 5	1 48 30.966	+3.4143	+ 11	+29 11 22.74	+17.607	-233
63	ε Cassiopeiae	3.3	B 5	1 48 37.312	+4.2892	+ 50	+63 16 36.57	+17.821	- 15
65	ξ Piscium	4.6	K	1 49 24.723	+3.1040	+ 13	+ 2 47 34.91	+17.823	+ 19
66	β Arietis	2.7	A 5	1 50 12.989	+3.3094	+ 65	+20 25 3.06	+17.663	-109
67	ψ Phoenicis	4.5	M b	1 50 26.374	+2.4062	- 95	-46 41 39.41	+17.661	-101
68	χ Eridani	3.6	G 5	1 52 50.661	+2.3352	+ 712	-52 0 25.12	+17.935	+270
69	[γ <sup>2</sup> Hydri]	4.7	K	1 52 54.324	+1.5171	+ 119	-68 2 26.01	+17.741	+ 79
71	υ Ceti	3.9	Ma	1 56 14.133	+2.8266	+ 91	-21 27 53.86	+17.508	- 14
72	α Hydri	2.9	F	1 56 14.910	+1.8901	+ 361	-61 57 31.93	+17.543	+ 21
70	50 Cassiopeiae	4.0	A	1 56 34.226	+5.0706	- 91	+72 2 6.20	+17.532	+ 25
73	γ Androm.	2.1	K p	1 58 58.861	+3.6728	+ 43	+41 56 47.15	+17.351	- 54
74	α Arietis	2.0	K 2	2 2 39.543	+3.3769	+ 137	+23 5 5.30	+17.099	-143
75	β Trianguli	3.0	A 5	2 4 46.621	+3.5626	+ 122	+34 36 34.35	+17.107	- 40
76	55 Cassiopeiae	6.3	F	2 8 10.985	+4.6756	- 10	+66 9 1.32	+16.993	+ 3
77	[6 Persei]	5.7	G 5	2 8 16.462	+3.9761	+ 367	+50 41 41.62	+16.817	-169
78	Lac. μ Forn.	5.2	A	2 9 23.134	+2.6427	+ 13	-31 5 55.20	+16.937	+ 2
79	[γ Trianguli]	4.2	A	2 12 33.144	+3.5595	+ 37	+33 28 40.64	+16.741	- 44
80	67 Ceti	5.8	A	2 12 59.510	+2.9909	+ 55	- 6 47 24.96	+16.654	-110

Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001	Dekl. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
82	[φ Eridani]	3.5	B 8	2 13 <sup>m</sup> 39.043	+2.1429	+ 81	-51° 52' 55.91	+16.697	- 36
81	[θ Arietis]	5.7	A	2 13 40.309	+3.3328	- 10	+19 31 54.14	+16.730	- 2
83	[x Fornacis]	5.4	F	2 18 52.911	+2.7451	+ 142	-24 10 45.70	+16.413	- 63
84	[λ Horologii]	5.5	F	2 22 39.652	+1.6765	- 95	-60 40 11.10	+16.148	-137
85	ξ <sup>2</sup> Ceti	4.2	A	2 23 54.181	+3.1870	+ 26	+ 8 6 7.73	+16.218	- 4
86	[x Eridani]	4.1	B 5	2 24 3.096	+2.1980	- 2	-48 3 45.39	+16.192	- 23
88	[λ <sup>1</sup> Fornacis]	6.0	K	2 29 46.783	+2.4995	- 43	-35 0 5.35	+15.883	- 32
87	36 H. Cassiop.	5.4	K	2 30 23.514	+5.6478	- 60	+72 28 10.57	+15.903	+ 21
90	μ Hydri	5.5	K	2 33 19.916	-1.3341	+ 472	-79 27 30.83	+15.692	- 33
89	ν Arietis	5.6	A	2 34 16.166	+3.4020	- 9	+21 36 58.40	+15.657	- 16
91	δ Ceti	3.9	B 2	2 35 22.802	+3.0731	+ 7	- 0 0 57.35	+15.610	- 2
92	[Br. 366]	6.3	A	2 37 55.180	+5.1251	+ 25	+67 29 9.17	+15.443	- 29
95	[ε Hydri]	4.0	B 9	2 38 21.207	+0.9155	+ 168	-68 36 34.38	+15.453	+ 5
93	θ Persei	4.1	G	2 38 43.572	+4.0851	+ 346	+48 53 27.51	+15.339	- 88
94	[35 Arietis]	4.7	B 8	2 38 45.137	+3.5149	+ 4	+27 22 3.17	+15.419	- 7
96	[γ Ceti]	3.4	A	2 39 9.188	+3.1062	- 98	+ 2 53 57.65	+15.255	-148
97	π Ceti	4.0	B 5	2 40 18.863	+2.8542	- 8	-14 11 48.62	+15.329	- 9
98	μ Ceti	4.2	A 5	2 40 36.877	+3.2400	+ 189	+ 9 46 37.54	+15.290	- 31
99	[η Persei]	3.8	K	2 44 50.937	+4.3596	+ 28	+55 33 52.16	+15.069	- 11
100	41 Arietis	3.6	B 8	2 45 16.207	+3.5260	+ 51	+26 55 53.76	+14.942	-113
101	β Fornacis	4.4	K	2 45 44.513	+2.5103	+ 63	-32 44 28.74	+15.187	+159
102	τ <sup>2</sup> Eridani	4.8	K	2 47 24.559	+2.7206	- 39	-21 19 59.84	+14.902	- 29
103	τ Persei	4.0	G p	2 48 34.493	+4.2389	+ 3	+52 26 9.88	+14.862	- 2
104	η Eridani	3.7	K	2 52 31.083	+2.9297	+ 52	- 9 12 57.12	+14.411	-218
106	θ Eridani	2.9	A 2	2 55 13.568	+2.2724	- 67	-40 37 28.61	+14.494	+ 28
105	47 H. Cephei	5.8	K 5	2 55 23.121	+7.8706	- 113	+79 6 16.43	+14.478	+ 22
107	α Ceti	2.5	Ma	2 58 5.712	+3.1337	- 9	+ 3 46 35.90	+14.215	- 76
108	γ Persei	3.0	G p	2 58 59.479	+4.3302	+ 2	+53 11 39.11	+14.233	- 4
109	ρ Persei	(3.8)	M b	3 0 2.611	+3.8368	+ 114	+38 31 52.53	+14.068	-103
110	μ Horologii	5.1	F	3 1 43.488	+1.4089	- 117	-60 2 51.89	+13.999	- 68
113	[θ Hydri]	5.7	A	3 2 4.735	+0.1055	+ 51	-72 12 53.24	+14.067	+ 22
111	β Persei	(2.2)	B 8	3 2 57.407	+3.8951	+ 7	+40 38 54.36	+13.989	- 1
112	[ι Persei]	4.1	G	3 3 17.044	+4.3168	+1296	+49 18 31.43	+13.888	- 82
114	δ Arietis	4.3	K	3 7 3.045	+3.4266	+ 106	+19 25 30.16	+13.728	- 4
117	12 Eridani	3.6	F 8	3 8 40.287	+2.5468	+ 241	-29 18 6.53	+14.272	+644
116	[94 Ceti]	5.2	F	3 8 41.401	+3.0608	+ 136	- 1 29 40.39	+13.565	- 61
115	48 H. Cephei	5.9	A	3 10 6.743	+7.5162	+ 183	+77 26 34.40	+13.491	- 44
118	[Horol. 38 G.]	6.1	N	3 10 31.338	+1.5152	- 5	-57 37 15.08	+13.502	- 6
119	[e Eridani]	4.2	G 5	3 16 44.001	+2.3958	+2787	-43 22 31.13	+13.836	+733
120	α Persei	1.9	F 5	3 18 36.137	+4.2713	+ 29	+49 34 39.23	+12.953	- 26

Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".000	Dekl. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
121	o Tauri	3.6	G 5	3 <sup>b</sup> 20 <sup>m</sup> 30.342	+3.2261	- 44	+ 8° 44' 53.42	+12.775	- 76
122	2 H. Camelop.	4.4	B 9	3 22 34.626	+4.8383	- 1	+59 39 46.50	+12.718	+ 6
123	[ξ Tauri]	3.6	B 8	3 22 49.853	+3.2488	+ 39	+ 9 27 16.33	+12.649	- 45
124	[σ Persei]	4.8	K	3 24 55.578	+4.2195	+ 9	+47 43 12.77	+12.575	+ 23
125	f Tauri	4.1	K	3 26 27.206	+3.3093	+ 13	+12 39 48.07	+12.442	- 4
126	[z Reticuli]	4.8	F 5	3 27 58.435	+1.0379	+514	-63 13 9.62	+12.704	+361
127	e Eridani	3.5	K	3 29 9.630	+2.8257	-658	- 9 43 42.08	+12.273	+ 12
128	[Horol. 45 G.]	5.8	K	3 30 11.384	+1.7838	+ 48	-50 38 58.53	+12.270	+ 80
130	[y Eridani]	4.5	K	3 34 13.370	+2.1517	- 16	-40 32 11.21	+11.884	- 24
129	[Gr. 716]	5.4	M b	3 35 11.858	+5.1833	- 21	+62 57 31.98	+11.861	+ 22
131	δ Persei	3.0	B 5	3 37 13.278	+4.2618	+ 33	+47 31 58.56	+11.661	- 35
133	[δ Fornacis]	4.9	B 5	3 39 3.941	+2.3851	- 5	-32 11 36.04	+11.572	+ 7
132	[o Persei]	3.9	B 1	3 39 17.842	+3.7570	+ 8	+32 2 8.90	+11.531	- 17
135	[δ Eridani]	3.4	K	3 39 24.880	+2.8729	- 64	-10 2 0.14	+12.286	+747
134	v Persei	3.9	F 5	3 39 45.163	+4.0683	- 6	+42 19 37.07	+11.511	- 5
136	[17 Tauri]	4.0	B 5	3 40 7.278	+3.5588	+ 17	+23 51 46.21	+11.445	- 44
137	[24 Eridani]	5.4	B 8	3 40 26.605	+3.0457	+ 1	- 1 24 52.65	+11.457	- 8
138	5 H. Camelop.	4.5	A	3 41 53.225	+6.2902	+ 42	+71 5 15.19	+11.322	- 40
139	η Tauri	3.0	B 5	3 42 43.530	+3.5626	+ 18	+23 51 31.51	+11.254	- 48
141	β Reticuli	3.8	K	3 43 11.466	+0.7440	+478	-65 3 30.90	+11.330	+ 62
140	τ <sup>6</sup> Eridani	4.1	F 8	3 43 24.301	+2.5799	-123	-23 29 6.80	+10.733	-519
142	[27 Tauri]	3.8	B 8 p	3 44 24.097	+3.5635	+ 14	+23 48 35.33	+11.135	- 45
143	g Eridani	4.1	K	3 46 27.607	+2.2448	- 40	-36 26 30.83	+10.978	- 52
146	γ Hydri	3.1	M a	3 48 27.719	-0.9573	+123	-74 29 4.40	+10.993	+109
144	ζ Persei	2.9	B 1	3 49 5.943	+3.7666	+ 11	+31 38 49.72	+10.826	- 11
145	9 H. Camelop.	5.5	K	3 50 18.174	+5.0971	- 3	+60 52 33.35	+10.732	- 16
147	e Persei	3.0	B	3 52 28.798	+4.0198	+ 23	+39 46 47.71	+10.558	- 29
148	ξ Persei	4.0	Oe 5	3 53 46.181	+3.8878	+ 10	+35 33 43.48	+10.483	- 8
149	γ Eridani	3.0	K 5	3 54 17.755	+2.7982	+ 42	-13 44 7.17	+10.340	-112
150	λ Tauri	(3.5)	B 3	3 56 14.728	+3.3214	- 5	+12 15 54.91	+10.292	- 13
151	v Tauri	3.9	A	3 58 53.928	+3.1897	+ 4	+ 5 46 5.58	+10.096	- 10
153	[Erid. 174 G.]	5.7	A 8	4 2 19.547	+2.4720	+148	-27 52 11.81	+ 9.954	+108
152	c Persei	4.0	B 3 p	4 2 50.841	+4.3480	+ 33	+47 30 0.65	+ 9.774	- 32
154	o <sup>1</sup> Eridani	4.1	F 5	4 7 57.560	+2.9277	+ 8	- 7 2 43.17	+ 9.496	+ 82
155	α Horologii	3.7	K	4 11 20.921	+1.9856	+ 20	-42 29 28.02	+ 8.932	-219
156	α Reticuli	3.2	G 5	4 13 23.394	+0.7663	+ 50	-62 40 25.70	+ 9.039	+ 47
157	[γ Doradus]	4.2	F 5	4 13 55.655	+1.5681	+ 88	-51 41 16.95	+ 9.121	+172
160	v <sup>4</sup> Eridani	3.3	B 9	4 14 51.921	+2.2684	+ 37	-33 59 34.89	+ 8.864	- 12
158	[54 Persei]	5.3	G 5	4 15 12.706	+3.8910	- 20	+34 22 29.18	+ 8.843	- 6
159	[γ Tauri]	3.7	G	4 15 14.297	+3.4120	+ 82	+15 26 7.55	+ 8.818	- 29

Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001	Dekl. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
161	[Erid. 212 G.]	5.4	A	4 <sup>h</sup> 17 <sup>m</sup> 9.646	+2.6182	+ 36	-20° 49' 46.02	+8.711	+ 15
162	δ Tauri	3.8	K	4 18 19.128	+3.4577	+ 78	+17 21 21.33	+8.573	- 31
163	[γ Reticuli]	5.3	G 5	4 21 1.208	+0.6431	+126	-63 34 34.16	+8.550	+160
166	[δ Mensae]	5.8	K	4 23 20.825	-4.1280	+ 98	-80 24 8.93	+8.277	+ 72
164	ε Tauri	3.5	K	4 23 56.580	+3.5012	+ 80	+19 0 14.76	+8.122	- 35
165	[I Camel. seq.]	6.3	B I	4 25 41.211	+4.7431	+ 7	+53 44 18.28	+8.019	0
167	[θ Caeli]	5.2	B 3	4 28 22.999	+1.8358	- 6	-45 7 30.07	+7.785	- 17
168	α Tauri	1	K 5	4 31 19.682	+3.4406	+ 49	+16 20 58.33	+7.375	-189
171	α Doradus	3.2	A p	4 32 16.056	+1.2956	+ 71	-55 12 35.20	+7.491	+ 3
169	ν Eridani	3.8	B 2	4 32 19.236	+2.9968	+ 2	- 3 30 54.38	+7.479	- 4
170	[ν <sup>3</sup> Eridani]	3.5	K	4 32 26.352	+2.3311	- 46	-30 43 31.10	+7.468	- 6
172	53 Eridani	3.9	K	4 34 30.930	+2.7464	- 54	-14 27 34.63	+7.140	-164
174	τ Tauri	4.2	A	4 37 26.479	+3.5991	+ 5	+22 48 16.47	+7.047	- 19
173	Gr. 848	6.2	A	4 38 2.437	+8.0297	+106	+75 47 53.24	+6.883	-134
175	4 Camelop.	5.5	A	4 41 19.933	+4.9884	+ 61	+56 37 0.01	+6.600	-146
176	[μ Eridani]	3.8	B 5	4 41 30.084	+2.9993	+ 13	- 3 24 1.28	+6.721	- 12
177	[μ Mensae]	5.5	A	4 43 51.413	-0.6106	+ 17	-71 4 40.40	+6.566	+ 28
178	9 Camelop.	4.3	B	4 46 5.131	+5.9481	+ 5	+66 12 31.49	+6.363	+ 10
179	[π <sup>4</sup> Orionis]	3.7	B 3	4 46 56.631	+3.1942	0	+ 5 28 9.28	+6.275	- 7
180	π <sup>5</sup> Orionis	3.7	B 3	4 50 4.972	+3.1240	- 2	+ 2 18 38.26	+6.018	- 3
181	ι Aurigae	2.7	K 2	4 51 46.878	+3.9047	+ 10	+33 2 26.46	+5.859	- 20
183	ε Aurigae	(3.2)	F 5 p	4 56 13.483	+4.3015	+ 6	+43 42 22.51	+5.493	- 14
182	10 Camelop.	4.1	G	4 56 17.685	+5.3280	- 1	+60 19 37.43	+5.489	- 12
184	ι Tauri	4.8	A 5	4 58 18.740	+3.5849	+ 53	+21 28 36.70	+5.288	- 43
185	η Aurigae	3.3	B 3	5 0 54.106	+4.2043	+ 33	+41 7 39.44	+5.041	- 71
186	ε Leporis	3.2	K 5	5 2 4.445	+2.5393	+ 20	-22 28 39.52	+4.945	- 68
187	[γ <sup>2</sup> Pictoris]	5.1	K 5	5 2 53.465	+1.5499	+ 35	-49 41 8.00	+4.949	+ 6
188	β Eridani	2.7	A 2	5 3 54.968	+2.9490	- 59	- 5 11 20.05	+4.777	- 79
189	[ξ Doradus]	4.7	F 8	5 4 8.139	+1.0236	- 71	-57 34 54.12	+4.941	+103
190	[λ Eridani]	4.2	B 2	5 5 19.038	+2.8707	+ 3	- 8 51 20.65	+4.734	- 4
192	μ Aurigae	5.1	A 3	5 7 57.083	+4.1031	- 13	+38 23 27.74	+4.435	- 79
191	19 H. Camelop.	5.1	F 8	5 9 20.511	+9.8392	-313	+79 8 33.11	+4.555	+160
194	β Orionis	1	B 8 p	5 10 41.538	+2.8826	+ 2	- 8 17 35.20	+4.279	0
193	α Aurigae	1	G	5 10 46.582	+4.4294	+ 85	+45 55 5.11	+3.845	-428
195	[τ Orionis]	3.7	B 5	5 13 43.264	+2.9124	- 12	- 6 55 47.63	+4.013	- 7
196	δ Doradus	4.8	K	5 13 48.891	-0.0520	+ 14	-67 16 31.11	+4.051	+ 39
197	[ο Columbae]	4.9	K	5 14 35.890	+2.1625	+ 63	-34 58 21.38	+3.617	-328
198	[Columb. 12 G.]	6.0	A	5 16 12.363	+2.3919	+ 8	-27 27 1.24	+3.796	- 11
199	[ξ Pictoris]	5.6	F 5	5 17 24.271	+1.4695	+ 9	-50 41 29.22	+3.931	+227
200	[η Orion. m.]	3.3	B I	5 20 27.257	+3.0164	+ 5	- 2 28 11.02	+3.443	+ 1

Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001	Dekl. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001
201	γ Orionis	1.7	B 2	5 <sup>b</sup> 20 <sup>m</sup> 50.365	+3.2173	— 3	+ 6° 16' 41.48	+3.388	— 20.
202	β Tauri	1.8	B 8	5 21 14.008	+3.7917	+ 25	+28 32 28.10	+3.198	— 177
203	17 Camelop.	5.9	M a	5 22 36.550	+5.6605	— 3	+63 0 8.14	+3.255	— 1
204	[β Leporis]	2.9	G	5 24 49.054	+2.5709	+ 4	—20 49 20.80	+2.972	— 93
206	δ Orionis	2.2	B	5 27 55.117	+3.0645	0	— 0 21 26.47	+2.795	— 2
205	Gr. 966	6.6	F	5 29 1.062	+8.0114	— 8	+74 59 36.59	+2.722	+ 20
207	α Leporis	2.6	F	5 29 12.073	+2.6457	+ 2	—17 52 43.32	+2.688	+ 2
208	[φ <sup>1</sup> Orionis]	4.6	B	5 30 25.668	+3.2929	— 1	+ 9 26 11.09	+2.569	— 10
209	ι Orionis	2.8	Oe 5	5 31 31.159	+2.9347	+ 5	— 5 57 41.40	+2.480	— 4
210	ε Orionis	1.6	B	5 32 9.200	+3.0438	+ 1	— 1 15 7.32	+2.427	— 3
211	ζ Tauri	3.0	B 3	5 32 51.765	+3.5852	+ 6	+21 5 41.67	+2.342	— 26
212	β Doradus	3.7	F 5	5 32 55.728	+0.5176	— 13	—62 32 31.11	+2.360	— 2
213	[σ Orionis]	3.8	B	5 34 43.757	+3.0114	0	— 2 38 42.95	+2.205	— 1
214	[γ Mensae]	5.3	K	5 35 2.573	—2.3898	+280	—76 23 55.31	+2.477	+298
215	α Columbae	2.4	B 5 p	5 36 45.065	+2.1719	— 1	—34 6 58.07	+1.993	— 37
216	ο Aurigae	5.7	A	5 39 42.092	+4.6468	— 6	+49 47 34.02	+1.765	— 9
217	[γ Leporis]	3.8	F 8	5 41 7.708	+2.5017	—201	—22 28 25.33	+1.273	—376
218	[130 Tauri]	5.8	A	5 42 46.306	+3.4984	+ 4	+17 42 1.16	+1.499	— 6
219	ζ Leporis	3.5	A 2	5 43 19.802	+2.7181	— 12	—14 51 3.09	+1.455	— 2
220	ζ Orionis	2.1	B	5 43 57.715	+2.8453	+ 4	— 9 41 49.57	+1.399	— 3
221	[ν Aurigae]	3.9	K	5 45 56.655	+4.1573	— 4	+39 7 35.30	+1.240	+ 11
222	[δ Leporis]	3.8	K	5 47 52.837	+2.5801	+165	—20 53 6.25	+0.407	—653
223	[β Columbae]	2.9	K	5 48 8.300	+2.1136	+ 34	—35 47 51.50	+1.441	+404
224	α Orionis	1	M a	5 50 50.415	+3.2480	+ 20	+ 7 23 35.84	+0.814	+ 13
226	[η Leporis]	3.6	F 5	5 52 45.656	+2.7325	— 27	—14 10 52.99	+0.773	+140
225	δ Aurigae	3.8	K	5 52 56.385	+4.9402	+100	+54 16 48.84	+0.497	—122
227	β Aurigae	1.9	A p	5 53 39.637	+4.4016	— 42	+44 56 26.65	+0.547	— 8
228	θ Aurigae	2.7	A p	5 54 15.961	+4.0919	+ 49	+37 12 29.91	+0.414	— 87
229	η Columbae	3.9	K	5 56 41.872	+1.8368	+ 22	—42 49 8.94	+0.255	— 34
230	[66 Orionis]	5.9	K	6 0 44.716	+3.1694	— 6	+ 4 9 50.90	—0.080	— 15
231	[Puppis I G.]	5.8	F 5 p	6 2 10.247	+1.7265	— 83	—45 2 8.63	+0.042	+232
232	ν Orionis	4.4	B 2	6 3 0.267	+3.4263	+ 11	+14 46 44.60	—0.294	— 31
233	[36 Camelop.]	5.6	K	6 4 48.152	+6.0362	— 5	+65 44 10.74	—0.449	— 29
235	[δ Pictoris]	5.0	B 1	6 8 44.354	+1.1669	— 22	—54 57 1.67	—0.772	— 7
234	22 H. Camelop.	4.6	A	6 10 2.035	+6.6168	+ 16	+69 21 0.96	—0.979	—102
236	η Geminor.	3.3	M a	6 10 2.933	+3.6224	— 42	+22 31 52.44	—0.892	— 13
237	[2 Lynceis]	4.4	A	6 12 33.969	+5.2964	— 7	+59 2 30.11	—1.069	+ 29
239	[α Mensae]	5.1	K	6 12 37.229	—1.7898	+236	—74 43 34.55	—1.329	—226
238	[κ Columbae]	4.4	K	6 13 42.334	+2.1341	— 6	—35 6 47.67	—1.124	+ 74
240	ζ Canis maj.	2.9	B 3	6 17 14.483	+2.3027	+ 2	—30 1 37.23	—1.503	+ 4

Nr.	Name	Gr.	Spektrum	AR. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in 0 <sup>a</sup> .0001	Dekl. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in 0 <sup>a</sup> .001
241	$\mu$ Geminor.	2.9	Ma	6 <sup>h</sup> 18 <sup>m</sup> 7.278	+ 3.6308	+ 48	+22 33 21.23	-1.694	- III
242	$\phi^1$ Aurigae	5.1	K	6 18 44.320	+ 4.6236	+ 9	+49 19 49.06	-1.640	- 3
243	$\beta$ Canis maj.	2.0	B I	6 19 10.579	+ 2.6418	- 4	-17 54 55.04	-1.673	+ 2
244	$\delta$ Monocer.	4.5	A 5	6 19 31.750	+ 3.1800	- 7	+ 4 38 4.23	-1.702	+ 4
245	$\alpha$ Argus	I	F	6 22 10.488	+ 1.3314	+ 16	-52 39 5.48	-1.925	+ II
246	10 Monocer.	5.0	B 3	6 24 0.549	+ 2.9630	- 2	- 4 42 42.18	-2.091	+ 5
247	$\delta$ Lynceis	6.3	F	6 30 22.977	+ 5.4894	-284	+61 33 11.76	-2.927	- 277
249	$\xi^2$ Canis maj.	4.6	A	6 31 42.185	+ 2.5141	+ 5	-22 54 2.11	-2.751	+ 13
248	23 H. Camelop.	5.6	F 8	6 32 36.394	+10.2908	-282	+79 39 15.68	-3.464	- 622
251	$\gamma$ Geminor.	2.0	A	6 33 5.462	+ 3.4671	+ 34	+16 28 7.31	-2.930	- 46
250	51 Aurigae	6.1	K	6 33 7.013	+ 4.1596	- 18	+39 27 45.71	-3.001	- 114
252	$\nu$ Argus	3.1	B 8	6 35 18.780	+ 1.8355	- 4	-43 7 31.07	-3.097	- 20
253	S Monocer.	(4.4)	Oe5	6 36 34.379	+ 3.3053	+ 6	+ 9 58 14.97	-3.191	- 5
254	$\epsilon$ Geminor.	3.1	G 5	6 39 0.690	+ 3.6931	+ 3	+25 12 41.63	-3.410	- 15
256	$\xi$ Geminor.	3.4	F 5	6 40 48.005	+ 3.3685	- 75	+12 58 58.50	-3.749	- 199
255	[ $\psi^5$ Aurigae]	5.5	F 5	6 40 58.531	+ 4.3282	+ 6	+43 39 30.16	-3.411	+ 154
257	$\alpha$ Canis maj. <sup>1)</sup>	I	A	6 41 37.467	+ 2.6438	-370	-16 36 19.86	-4.833	-1212
258	18 Monocer.	4.7	K	6 43 41.419	+ 3.1298	- 2	+ 2 30 2.39	-3.818	- 20
259	[43 Camelop.]	5.1	B 5	6 45 5.240	+ 6.4856	+ 16	+68 59 0.06	-3.915	+ 3
264	[ $\zeta$ Mensae]	5.7	A 2	6 46 43.725	- 4.9493	- 36	-80 43 49.89	-3.973	+ 85
262	$\alpha$ Pictoris	3.2	A 5	6 47 22.293	+ 0.6178	-100	-61 51 18.78	-3.858	+ 256
261	$\theta$ Geminor.	3.4	A 2	6 47 31.094	+ 3.9575	+ 7	+34 3 32.22	-4.181	- 55
263	[ $\tau$ Argus]	2.9	K	6 47 57.046	+ 1.4888	+ 29	-50 31 8.37	-4.259	- 96
260	[24 H. Camel.]	4.6	K 5	6 48 25.235	+ 8.7913	+217	+77 4 55.61	-4.216	- 13
265	15 Lynceis	4.6	K	6 50 21.258	+ 5.2034	0	+58 31 45.56	-4.499	- 130
266	$\theta$ Canis maj.	4.1	K 5	6 50 28.388	+ 2.7876	- 94	-11 56 15.04	-4.392	- 13
267	[1 Volantis]	5.4	B 8	6 52 22.184	- 0.6789	- 4	-70 51 50.26	-4.529	+ 12
268	$\epsilon$ Canis maj.	1.5	B I	6 55 28.863	+ 2.3576	0	-28 51 44.73	-4.804	+ 1
269	$\zeta$ Geminor.	(3.8)	G	6 59 21.931	+ 3.5605	0	+20 41 19.79	-5.137	- 3
270	[ $\sigma^2$ Canis maj.]	3.1	B 5 p	6 59 41.030	+ 2.5053	- 2	-23 42 56.17	-5.161	0
271	$\gamma$ Canis maj.	4.0	B 5	7 0 8.375	+ 2.7152	+ 8	-15 30 51.20	-5.212	- 12
272	[Carinae 27 G.]	5.5	A	7 2 48.783	+ 1.1172	- 24	-56 37 40.34	-5.433	- 7
273	$\delta$ Canis maj.	1.9	F 8 p	7 5 8.272	+ 2.4390	- 8	-26 15 55.43	-5.617	+ 3
274	63 Aurigae	5.0	K	7 6 9.345	+ 4.1315	+ 45	+39 27 8.60	-5.706	0
275	[J Puppis]	4.5	F	7 10 16.713	+ 1.7095	-148	-46 37 30.63	-5.961	+ 90
276	[64 Aurigae]	6.0	A	7 12 28.676	+ 4.1775	- 3	+41 1 35.95	-6.231	+ 3
277	$\lambda$ Geminor.	3.6	A 2	7 13 29.805	+ 3.4498	- 31	+16 41 8.72	-6.362	- 44
278	$\pi$ Argus	2.5	K 5	7 14 18.995	+ 2.1185	- 14	-36 57 11.36	-6.384	+ 3
279	$\delta$ Geminor.	3.3	F	7 15 20.829	+ 3.5860	- 11	+22 7 51.05	-6.483	- 10
280	19 Lync. seq.	5.5	B 8	7 16 20.765	+ 4.9055	- 1	+55 26 1.18	-6.589	- 34



Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001	Dekl. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
281	♁ Volantis	4.0	F 5	7 <sup>h</sup> 16 <sup>m</sup> 52.572	-0.0206	+ 4	-67° 48' 39.13	- 6.611	- 12
282	♊ Geminor.	3.8	K	7 20 45.634	+3.7301	- 83	+27 57 29.84	- 7.004	- 85
283	[7 Can. maj.]	2.4	B 5 p	7 20 55.829	+2.3730	- 5	-29 8 46.19	- 6.919	+ 13
284	Gr. 1308	5.8	G 8	7 22 34.175	+6.2681	- 7	+68 37 51.59	- 7.110	- 44
285	♁ Canis min.	2.9	B 8	7 22 48.808	+3.2553	- 31	+ 8 27 5.63	- 7.127	- 41
286	ρ Geminor.	4.4	F	7 23 58.108	+3.8628	+122	+31 56 41.61	- 6.998	+ 183
287	α Gemin.*)	1.8, 2.8	A	7 29 29.785	+3.8340	-129	+32 3 55.94	- 7.712	- 81
288	[Pupp. 108 G.]	4.7	F 8	7 30 37.685	+2.5675	- 39	-22 7 21.81	- 7.704	+ 18
289	25 Monocer.	5.3	F 5	7 33 18.072	+2.9836	- 47	- 3 55 53.11	- 7.917	+ 20
290	[f Puppis]	4.7	B 8	7 34 24.455	+2.2193	- 27	-34 47 16.24	- 8.010	+ 16
291	α Can. min.*)	0.5	F 5	7 35 6.907	+3.1421	-469	+ 5 25 51.80	- 9.111	-1028
292	24 Lyncis	5.0	A 5	7 36 14.818	+5.0907	- 47	+58 53 56.70	- 8.226	- 53
293	[26 Monocer.]	4.0	K	7 37 25.493	+2.8663	- 57	- 9 21 49.07	- 8.288	- 21
294	α Geminor.	3.4	G 5	7 39 37.236	+3.6259	- 15	+24 35 27.49	- 8.496	- 54
295	β Geminor.	1.1	K	7 40 25.397	+3.6753	-468	+28 13 13.99	- 8.558	- 53
296	π Geminor.	5.5	K	7 42 21.124	+3.8739	- 1	+33 36 47.56	- 8.688	- 31
297	ζ Volantis	3.9	K	7 42 48.652	-0.7256	+ 8	-72 24 51.00	- 8.686	+ 8
298	[Pupp. 205 G.]	5.7	F 8	7 48 4.058	+2.7787	- 41	-13 41 5.74	- 9.448	- 343
299	[26 Lyncis]	5.7	K	7 48 53.573	+4.3780	- 40	+47 46 23.75	- 9.177	- 7
301	[α Puppis]	3.7	G 5	7 49 27.982	+2.0620	- 18	-40 22 7.67	- 9.213	+ 1
300	Gr. 1374	5.5	K	7 50 38.908	+7.2341	- 30	+74 8 1.62	- 9.338	- 32
303	γ Argus	3.5	B 3	7 54 44.736	+1.5269	- 32	-52 46 1.73	- 9.598	+ 24
302	[53 Camelop.]	6.3	A	7 54 53.209	+5.1448	- 30	+60 32 40.65	- 9.655	- 21
304	[27 Monocer.]	5.2	K	7 55 44.441	+2.9993	- 27	- 3 27 37.73	- 9.689	+ 9
305	χ Geminor.	5.1	K	7 58 36.482	+3.6893	- 15	+28 1 10.98	- 9.963	- 46
306	ζ Argus	2.2	O d	8 0 46.288	+2.1077	- 34	-39 46 37.72	-10.071	+ 10
307	27 Lyncis	4.6	A 2	8 2 26.843	+4.5251	- 59	+51 44 18.92	-10.212	- 4
308	ι Navis	2.8	F 5	8 4 8.196	+2.5548	- 64	-24 4 22.58	-10.288	+ 47
309	γ Argus	2.1	O a p	8 7 3.992	+1.8488	- 12	-47 6 1.06	-10.557	- 4
310	Br. 1147	5.8	G	8 9 31.801	+7.6059	+ 58	+76 0 11.78	-10.719	+ 17
311	20 Navis	5.3	K	8 9 39.365	+2.7580	- 8	-15 32 47.08	-10.751	- 6
312	β Cancri	3.5	K 2	8 12 10.703	+3.2558	- 30	+ 9 25 58.86	-10.983	- 52
313	[7 Puppis]	4.4	A 5	8 15 33.554	+2.2442	-104	-36 24 38.70	-11.088	+ 89
314	31 Lyncis	4.4	K	8 17 21.894	+4.1171	- 8	+43 26 45.00	-11.416	- 108
315	ε Argus	1.7	K p	8 20 52.453	+1.2344	- 32	-59 15 5.73	-11.545	+ 15
316	Br. 1197	3.6	A	8 21 39.845	+2.9992	- 41	- 3 38 40.47	-11.637	- 21
318	♁ Chamael.	4.2	K	8 23 3.823	-1.7561	-457	-77 13 36.76	-11.686	+ 30
317	ο Ursae maj.	3.3	G	8 23 37.869	+5.0070	-174	+60 59 13.11	-11.866	- 111
319	[β Volantis]	3.7	K	8 24 52.269	+0.6606	- 54	-65 52 11.18	-12.021	- 177
320	Gr. 1450	6.3	K p	8 27 43.257	+3.9078	- 83	+38 17 30.60	-12.214	- 170

Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".0001	Dekl. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o".001
321	$\eta$ Cancri	5.6	K	8 <sup>h</sup> 28 <sup>m</sup> 5.128	+3.4736	- 26	+20 42 49.91	-12.120	- 50
322	[Gr. 1446]	6.4	G 5	8 30 20.865	+6.7345	- 36	+73 54 39.96	-12.366	-104
323	[Gr. 1460]	6.3	F 5	8 33 22.487	+4.4595	- 38	+52 59 35.04	-12.471	- 35
324	[ $\epsilon$ Velorum]	4.2	A 5	8 34 49.785	+2.1079	- 22	-42 42 31.37	-12.542	- 7
325	[6 Hydrae]	5.4	K	8 36 14.044	+2.8421	- 64	-12 11 30.51	-12.634	- 3
326	$\delta$ Cancri	3.9	K	8 40 8.489	+3.4132	- 9	+18 26 57.11	-13.130	-236
327	$\alpha$ Pyxidis	3.7	B 2	8 40 22.616	+2.4100	- 15	-32 53 50.34	-12.898	+ 12
328	$\iota$ Cancri	4.1	G 5	8 41 51.612	+3.6363	- 12	+29 3 12.46	-13.056	- 47
330	$\delta$ Argus	2.0	A	8 42 29.687	+1.6574	+ 22	-54 24 54.15	-13.144	- 93
329	[ $\epsilon$ Hydrae]	3.3	F 8	8 42 32.472	+3.1795	- 126	+ 6 42 47.41	-13.105	- 50
331	[ $\gamma$ Chamael.]	5.9	K	8 44 4.486	-1.9760	- 151	-78 40 24.05	-13.122	+ 34
332	[ $\gamma$ Pyxidis]	4.2	K 2	8 47 8.181	+2.5460	- 100	-27 24 44.65	-13.263	+ 93
333	[ $\sigma^2$ Cancri med.]	5.6	G 5	8 49 22.071	+3.6666	+ 31	+30 52 59.69	-13.528	- 26
334	$\zeta$ Hydrae	3.1	K	8 51 9.993	+3.1737	- 64	+ 6 15 2.95	-13.606	+ 12
336	$c$ Carinae	4.0	B 8	8 53 14.162	+1.3626	- 26	-60 20 18.29	-13.698	+ 52
335	$\iota$ Ursae maj.	2.9	A 5	8 53 44.313	+4.1203	- 437	+48 21 24.07	-14.029	-247
337	$\alpha$ Cancri	4.1	A 5	8 54 6.846	+3.2842	+ 26	+12 10 5.60	-13.841	- 35
338	[ $\rho$ Ursae maj.]	4.9	M a	8 55 21.209	+5.4481	- 34	+67 56 33.64	-13.869	+ 15
339	$\iota$ Ursae maj.	3.9	F 5	8 55 27.221	+3.9050	- 383	+42 6 1.41	-14.155	-264
340	[Gr. 1501]	5.9	A 2	8 58 9.333	+4.4122	- 8	+54 36 0.90	-14.057	+ 3
341	$\alpha$ Ursae maj.	3.3	A	8 58 10.303	+4.1084	- 27	+47 28 25.89	-14.126	- 65
343	$\alpha$ Volantis	4.1	A 5	9 1 11.240	+0.9530	- 8	-66 4 35.76	-14.361	-114
342	[ $\epsilon$ Velorum]	3.9	K	9 1 23.590	+2.0663	- 70	-46 46 43.76	-14.288	- 28
344	$\sigma^2$ Ursae maj.	4.9	F 8	9 3 22.509	+5.3141	- 16	+67 27 38.26	-14.448	- 67
345	$\lambda$ Argus	2.1	K 5	9 5 3.092	+2.2046	- 33	-43 6 32.48	-14.474	+ 9
346	[36 Lyncis]	5.3	B 8	9 8 34.714	+3.9349	- 18	+43 32 54.25	-14.737	- 42
347	$\delta$ Hydrae	3.9	A	9 10 12.213	+3.1234	+ 89	+ 2 39 8.99	-15.104	-313
348	$\beta$ Argus	1.7	A	9 12 19.692	+0.6688	- 303	-69 23 15.06	-14.819	+ 97
349	[38 Lyncis]	3.9	A	9 13 52.315	+3.7420	- 18	+37 8 31.08	-15.135	-129
350	$\delta^3$ Cancri	6.7	G	9 14 31.158	+3.3524	- 80	+18 2 42.89	-15.179	-135
351	[ $\iota$ Argus]	2.2	F	9 14 56.887	+1.6059	- 35	-58 56 21.04	-15.066	+ 2
352	$\alpha$ Lyncis	3.2	K 5	9 16 11.188	+3.6621	- 178	+34 43 53.89	-15.127	+ 12
353	$\alpha$ Argus	2.5	B 3	9 19 38.094	+1.8565	- 22	-54 40 6.84	-15.333	+ 2
354	$\alpha$ Hydrae	2.0	K 2	9 23 39.405	+2.9489	- 7	- 8 18 40.24	-15.527	+ 32
355	$\iota$ Ursae maj.	3.5	F	9 25 14.375	+4.7586	+ 168	+63 24 45.61	-15.618	+ 28
356	[ $\epsilon$ Antliae]	4.7	K 2	9 25 56.519	+2.4744	- 25	-35 36 3.50	-15.698	- 14
357	$d$ Ursae maj.	4.5	G	9 27 26.163	+5.3510	- 120	+70 10 59.18	-15.690	+ 75
358	$\delta$ Ursae maj.	3.1	F 8	9 27 30.989	+4.0275	-1027	+52 2 33.90	-16.316	-546
359	$\psi$ Argus	3.6	F 5	9 27 32.845	+2.3606	- 172	-40 6 57.19	-15.697	+ 74
361	[N Velorum]	3.0	K 5	9 28 47.465	+1.8230	- 36	-56 40 51.41	-15.837	+ 1

Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in 0 <sup>s</sup> .0001	Dekl. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in 0 <sup>s</sup> .001
360	10 Leon. min.	4.6	G 5	9 29 <sup>m</sup> 19.699	+3.6838	+ 13	+36° 45' 12.72	-15.893	- 26
362	[H. Carinae]	5.8	K	9 31 0.887	+0.4656	- 61	-72 43 33.64	-15.973	- 17
363	[Gr. 1564]	5.9	K	9 35 25.495	+5.1792	-131	+69 36 9.45	-16.261	- 74
364	[z Hydrae]	5.1	B 3	9 36 28.262	+2.8761	- 18	-13 58 7.13	-16.252	- 11
365	[o Leonis]	3.8	F 5 p	9 36 52.985	+3.2047	- 94	+10 15 24.99	-16.300	- 37
366	θ Antliae	5.0	F 2	9 40 38.072	+2.6729	- 40	-27 24 9.56	-16.417	+ 35
367	ε Leonis	3.0	G p	9 41 18.834	+3.4104	- 31	+24 8 35.72	-16.503	- 17
369	υ Argus	3.0	F	9 45 6.175	+1.5010	- 21	-64 42 2.05	-16.673	- 1
368	υ Ursae maj.	3.8	F	9 45 18.905	+4.2883	-379	+59 24 57.07	-16.837	-154
370	6 Sextantis	6.2	A	9 47 12.195	+3.0240	+ 8	- 3 52 4.35	-16.803	- 30
371	[μ Leonis]	4.0	K	9 48 13.052	+3.4170	-162	+26 23 3.85	-16.878	- 56
373	[Hydrae 183 G.]	5.5	M a	9 51 5.815	+2.8300	- 24	-18 37 48.24	-17.024	- 66
372	[Gr. 1586]	6.3	K	9 51 15.889	+5.4214	-179	+73 15 38.98	-17.010	- 45
374	[19 Leon. min.]	5.2	F	9 52 47.491	+3.6844	-100	+41 26 14.10	-17.063	- 27
375	[φ Argus]	3.7	B 5	9 54 3.115	+2.1033	- 21	-54 11 11.70	-17.096	- 2
377	[η Antliae]	5.3	F 8	9 55 26.204	+2.5713	- 83	-35 30 27.33	-17.181	- 24
376	[12 Sextantis]	6.7	F	9 55 34.170	+3.1134	- 47	+ 3 46 4.22	-17.136	+ 27
378	π Leonis	4.9	M a	9 55 59.259	+3.1726	- 21	+ 8 25 43.01	-17.207	- 25
379	η Leonis	3.4	A p	10 2 58.418	+3.2741	- 2	+17 9 11.90	-17.494	- 6
380	α Leonis	1.3	B 8	10 4 6.817	+3.1979	-167	+12 21 31.28	-17.538	- 1
381	λ Hydrae	3.7	K	10 6 41.286	+2.9250	-134	-11 57 29.30	-17.732	- 87
382	γ Velorum	3.9	A 2	10 11 22.448	+2.5134	-154	-41 43 30.43	-17.791	+ 45
385	[ω Argus]	3.4	B 8	10 11 50.398	+1.4328	- 28	-69 38 25.40	-17.854	0
384	ζ Leonis	3.4	F	10 12 14.662	+3.3415	+ 15	+23 48 59.52	-17.878	- 7
383	λ Ursae maj.	3.4	A	10 12 16.743	+3.6286	-148	+43 18 51.72	-17.921	- 49
386	μ Ursae maj.	3.0	K 5	10 17 34.191	+3.5840	- 70	+41 54 8.33	-18.053	+ 24
387	30 H. Urs. maj.	5.0	A	10 18 22.866	+4.3561	- 25	+65 58 17.85	-18.125	- 18
388	[25 Sextantis]	6.2	A	10 19 23.880	+3.0323	- 40	- 3 40 9.65	-18.147	- 2
389	μ Hydrae	3.9	K 5	10 22 13.253	+2.9012	- 85	-16 25 39.00	-18.330	- 82
391	J Carinae	4.1	F 5	10 22 48.579	+1.1948	- 67	-73 37 26.79	-18.286	- 17
390	31 Leon. min.	4.2	K	10 23 15.787	+3.4774	- 96	+37 7 3.53	-18.392	-106
392	Lac. α Antliae	4.2	K 5	10 23 29.348	+2.7427	- 62	-30 39 36.22	-18.284	+ 10
393	s Carinae	4.1	F	10 24 56.306	+2.1965	- 32	-58 19 50.27	-18.359	- 14
394	36 Ursae maj.	4.8	F	10 25 31.097	+3.8568	-216	+56 23 28.75	-18.399	- 33
395	9 H. Dracon.	4.9	K	10 28 20.169	+5.1698	- 96	+76 7 32.80	-18.467	- 4
396	[ρ Leonis]	3.8	B p	10 28 36.025	+3.1610	- 6	+ 9 43 7.31	-18.477	- 5
397	[ρ Carinae]	3.5	B 5 p	10 29 10.642	+2.1298	- 18	-61 16 24.46	-18.487	+ 5
398	[37 Ursae maj.]	5.2	F	10 30 1.232	+3.8834	+ 83	+57 29 42.62	-18.485	+ 36
399	[44 Hydrae]	5.6	K	10 30 12.517	+2.8524	- 2	-23 19 57.16	-18.506	+ 21
400	[ρ Velorum]	4.0	F 2	10 33 56.052	+2.5137	-183	-47 48 35.53	-18.682	- 34

Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in o".0001	Dekl. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in o".001
401	[γ Chamael.]	4.2	M a	10 <sup>h</sup> 34 <sup>m</sup> 32.140	+0.7321	-116	-78° 11' 33.34	-18.638	+ 30
402	[x Velorum]	4.4	G	10 36 6.934	+2.3774	- 75	-55 11 11.29	-18.738	- 21
404	33 Sextantis	6.6	K	10 37 20.033	+3.0525	- 94	- 1 19 14.48	-18.881	-125
403	[35 H. Urs. maj.]	5.1	K	10 37 21.663	+4.3316	- 19	+69 29 42.37	-18.774	- 18
405	[41 Leon. min.]	5.2	A 2	10 39 4.183	+3.2666	- 81	+23 36 27.65	-18.796	+ 13
406	θ Argus	2.8	B	10 40 5.966	+2.1351	- 26	-63 58 30.02	-18.835	+ 4
407	42 Leon. min.	5.3	B 9	10 41 25.268	+3.3423	- 15	+31 6 14.69	-18.916	- 37
408	μ Argus	2.7	G 5	10 43 19.416	+2.5729	+ 49	-48 59 50.19	-18.999	- 65
411	[δ <sup>2</sup> Chamael.]	4.7	B 3	10 45 3.103	+0.5965	-120	-80 7 5.11	-18.974	+ 9
409	ι Leonis	5.4	A	10 45 3.233	+3.1556	- 3	+10 58 7.80	-19.013	- 30
410	[ν Hydrae]	3.2	K	10 45 40.600	+2.9590	+ 66	-15 46 29.02	-18.806	+195
412	[46 Leon. min.]	3.9	K	10 48 50.571	+3.3624	+ 76	+34 38 47.45	-19.369	-282
414	[ι Antliae]	4.9	K	10 52 59.195	+2.7917	+ 62	-36 42 26.87	-19.331	-137
413	[Br. 1508]	6.4	G 2	10 53 35.873	+4.8744	-259	+78 11 57.13	-19.236	- 26
415	i Velorum	4.5	A 2	10 56 28.826	+2.7478	+ 20	-41 47 47.66	-19.284	- 4
416	β Ursae maj.	2.3	A	10 57 1.479	+3.6372	+101	+56 48 41.46	-19.267	+ 26
417	α Ursae maj.	1.8	K	10 58 48.239	+3.7236	-174	+62 10 59.37	-19.407	- 72
418	γ Leonis	4.8	F	11 0 53.498	+3.0961	-231	+ 7 46 7.67	-19.428	- 46
419	[γ Hydrae]	4.8	F 5	11 1 28.468	+2.8864	-154	-26 51 41.68	-19.402	- 7
420	ψ Ursae maj.	3.0	K	11 5 10.352	+3.3829	- 57	+44 55 58.03	-19.510	- 36
421	β Crateris	4.3	A 2	11 7 43.279	+2.9482	0	-22 23 19.64	-19.624	- 98
422	δ Leonis	2.4	A 2	11 9 51.386	+3.1944	+106	+20 57 44.02	-19.704	-136
423	θ Leonis	3.3	A	11 10 2.636	+3.1506	- 43	+15 52 1.43	-19.652	- 81
424	[Gr. 1757]	6.1	K	11 12 11.772	+3.3917	- 97	+49 54 46.86	-19.633	- 22
425	ν Ursae maj.	3.4	K	11 14 9.735	+3.2470	- 16	+33 31 51.58	-19.624	+ 22
426	δ Crateris	3.6	K	11 15 20.370	+2.9977	- 88	-14 20 43.59	-19.466	+200
427	σ Leonis	4.1	A	11 17 0.732	+3.0947	- 62	+ 6 28 4.72	-19.706	- 12
428	π Centauri	4.1	B 5	11 17 21.181	+2.7276	- 41	-54 3 8.79	-19.712	- 13
429	Gr. 1771	6.2	A	11 18 6.909	+3.5871	- 10	+64 46 6.75	-19.677	+ 35
430	[ι Leonis]	4.0	F 5	11 19 45.297	+3.1286	+106	+10 58 12.03	-19.821	- 84
431	[γ Crateris]	4.0	A 2	11 20 53.005	+2.9951	- 72	-17 14 39.76	-19.747	+ 7
432	[58 Ursae maj.]	6.1	F	11 26 11.744	+3.2554	- 44	+43 36 44.92	-19.756	+ 72
433	λ Draconis	3.6	M a	11 26 40.349	+3.5903	- 80	+69 46 21.88	-19.855	- 21
434	ξ Hydrae	3.6	G 5	11 29 3.812	+2.9461	-167	-31 24 53.45	-19.906	- 43
435	[C <sup>2</sup> Centauri]	5.5	A 5	11 32 2.543	+2.8984	+ 13	-47 11 52.25	-19.943	- 47
436	λ Centauri	3.3	B 9	11 32 4.998	+2.7540	- 58	-62 34 37.48	-19.914	- 17
437	ν Leonis	4.4	K	11 32 51.156	+3.0717	+ 1	- 0 22 55.20	-19.869	+ 36
438	[π Chamael.]	6.1	F	11 33 57.228	+2.4608	-279	-75 27 12.76	-19.921	- 5
439	[ο Hydrae]	4.8	B 8	11 36 14.174	+2.9753	- 30	-34 18 4.22	-19.937	+ 1
440	3 Draconis	5.4	M a	11 38 1.459	+3.3691	- 78	+67 11 16.15	-19.914	+ 40

Nr.	Name	Gr.	Spektrum	AR. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001	Dekl. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
442	[λ Muscae]	3.7	A 5	11 <sup>h</sup> 41 <sup>m</sup> 49.328	+2.8164	-152	-66° 17' 6.81	-19.962	+ 20
441	χ Ursae maj.	3.8	K	11 41 49.944	+3.1778	-133	+48 13 22.81	-19.963	+ 20
443	[Centauri 65 G.]	4.2	G	11 42 38.182	+2.8898	- 25	-60 44 1.10	-20.023	- 35
444	β Leonis	2.1	A 2	11 44 58.831	+3.0621	-341	+15 1 9.54	-20.120	-118
445	β Virginis	3.5	F 8	11 46 31.686	+3.1252	+494	+ 2 12 56.03	-20.287	-276
446	[β Centauri]	4.8	K p	11 47 8.277	+2.9873	-111	-44 43 42.67	-20.060	- 46
447	γ Ursae maj.	2.3	A	11 49 37.805	+3.1670	+108	+54 8 22.27	-20.023	+ 2
448	[ε Chamael.]	5.0	B 9	11 55 37.879	+2.9390	-161	-77 46 34.80	-20.050	- 9
449	[Centauri 88 G.]	5.5	F	11 59 30.552	+3.0968	+267	-41 59 10.06	-20.168	-123
450	ο Virginis	4.1	G 5	12 1 8.077	+3.0569	-147	+ 9 10 37.96	-20.007	+ 38
451	[Gr. 1852]	6.0	K	12 1 12.296	+3.0852	+438	+77 21 11.07	-20.141	- 96
452	δ Centauri	2.7	B 3 p	12 4 12.308	+3.0978	- 44	-50 16 36.74	-20.060	- 18
453	ε Corvi	3.0	K	12 6 0.439	+3.0819	- 51	-22 10 29.50	-20.028	+ 11
454	4 H. Draconis	5.0	A 5	12 8 28.138	+2.8416	+ 23	+78 3 38.69	-20.009	+ 23
455	[δ Crucis]	3.0	B 3	12 10 53.276	+3.1705	- 50	-58 18 14.62	-20.049	- 27
456	δ Ursae maj.	3.4	A 2	12 11 28.457	+2.9814	+136	+57 28 37.17	-20.018	+ 3
457	[γ Corvi]	2.4	B 8	12 11 41.364	+3.0825	-112	-17 5 52.18	-20.003	+ 17
458	[2 Can. ven.]	5.9	K 5 p	12 12 7.310	+3.0136	+ 26	+41 6 19.21	-20.063	- 45
459	β Chamael.	4.4	B 5	12 13 37.387	+3.4619	-143	-78 52 5.10	-19.998	+ 12
460	η Virginis	3.7	A	12 15 48.744	+3.0689	- 42	- 0 13 20.37	-20.021	- 23
461	[6 Can. ven.]	5.3	K	12 21 54.686	+2.9610	- 67	+39 27 44.41	-19.990	- 36
462	α Crucis md.	1.0	B 1	12 22 8.510	+3.3176	- 44	-62 39 22.47	-19.983	- 31
463	[Hydr. 323 G.]	5.7	A	12 22 38.432	+3.1549	- 14	-32 23 12.66	-19.997	- 49
464	[ε Centauri]	4.1	B 3	12 23 42.364	+3.2323	- 36	-49 47 15.89	-19.971	- 33
466	20 Comae	6.0	A	12 25 42.225	+3.0168	+ 26	+21 20 20.14	-19.958	- 39
465	δ Corvi	2.8	A	12 25 43.348	+3.1014	-145	-16 4 12.69	-20.061	-142
467	[74 Ursae maj.]	5.6	A 5	12 26 13.482	+2.8107	- 96	+58 50 44.71	-19.826	+ 88
468	[γ Crucis]	1.6	M b	12 26 43.098	+3.3116	+ 26	-56 39 55.63	-20.187	-278
469	[γ Muscae]	3.9	B 5	12 27 40.278	+3.5510	- 82	-71 41 28.73	-19.921	- 22
470	8 Can. ven.	4.3	G	12 29 56.848	+2.8546	-625	+41 47 30.99	-19.594	+280
472	α Draconis	3.6	B 5 p	12 30 4.601	+2.5745	-117	+70 13 44.53	-19.865	+ 7
471	β Corvi	2.6	G 5	12 30 10.855	+3.1466	- 4	-22 57 16.27	-19.931	- 59
473	24 Comae seq.	5.1	K	12 31 7.101	+3.0112	+ 2	+18 49 2.23	-19.842	+ 19
474	α Muscae	2.8	B 3	12 32 23.871	+3.5500	- 55	-68 41 42.11	-19.877	- 32
475	[χ Virginis]	4.9	K	12 35 6.946	+3.0948	- 49	- 7 33 20.04	-19.848	- 37
476	γ Centauri	2.3	A	12 37 5.773	+3.2958	-205	-48 31 14.31	-19.803	- 20
477	[γ Virgin. m.]	3.5, 3.5	F	12 37 36.335	+3.0390	-375	- 1 0 39.20	-19.771	+ 5
478	76 Ursae maj.	6.2	A	12 38 4.594	+2.6317	- 45	+63 9 7.56	-19.786	- 17
479	[Hydr. 330 G.]	5.9	K p	12 39 44.434	+3.1921	- 26	-27 53 6.73	-19.795	- 50
480	[β Muscae]	3.2	B 3	12 41 21.521	+3.6513	- 53	-67 40 13.58	-19.751	- 31

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481	$\beta$ Crucis	1.4	B I	$12^{\text{h}} 43^{\text{m}} 2.110$	+3.4862	- 59	$-59^{\circ} 15' 5.99$	-19.720	- 27
482	$\eta$ Centauri	4.4	A 5	$12 48 59.934$	+3.3130	+ 45	$-39 44 39.01$	-19.626	- 37
483	$\epsilon$ Ursae maj.	1.7	A p	$12 50 30.873$	+2.6467	+137	$+56 23 37.70$	-19.571	- 11
484	$\delta$ Virginis	3.4	Ma	$12 51 34.378$	+3.0212	-315	$+ 3 49 54.67$	-19.603	- 63
485	12 Can. ven. sq.	2.8	A p	$12 52 17.300$	+2.8102	-199	$+38 45 0.49$	-19.476	+ 50
486	$\delta$ Draconis	5.2	F	$12 52 17.744$	+2.3963	- 15	$+65 52 20.06$	-19.559	- 34
487	[ $\delta$ Muscae]	3.6	K 2	$12 56 44.615$	+4.0831	+529	$-71 7 3.86$	-19.470	- 36
488	$\epsilon$ Virginis	2.8	K	$12 58 11.675$	+2.9866	-185	$+11 23 19.81$	-19.385	+ 18
489	[ $\epsilon^2$ Centauri]	4.3	B 3	$13 2 13.874$	+3.4885	- 35	$-49 28 41.51$	-19.340	- 30
490	$\theta$ Virginis	4.3	A	$13 5 48.360$	+3.1041	- 24	$- 5 6 44.20$	-19.264	- 39
491	[17 Can. ven.]	6.1	A	$13 6 22.959$	+2.7585	- 59	$+38 55 25.26$	-19.179	+ 32
492	43 Comae	4.2	G	$13 8 8.501$	+2.8018	-602	$+28 16 59.99$	-18.287	+879
493	[ $\eta$ Muscae]	5.0	B 8	$13 9 48.628$	+4.0356	- 33	$-67 28 16.00$	-19.152	- 30
494	[20 Can. ven.]	4.6	F	$13 13 57.478$	+2.6936	-107	$+40 59 35.98$	-19.002	+ 8
495	$\gamma$ Hydrae	3.1	G 5	$13 14 34.130$	+3.2570	+ 51	$-22 44 59.75$	-19.047	- 53
496	$\iota$ Centauri	2.9	A 2	$13 16 5.591$	+3.3632	-293	$-36 17 26.68$	-19.043	- 92
497	$\zeta$ Urs. maj. pr.	2.2	A p	$13 20 42.455$	+2.4203	+144	$+55 20 34.11$	-18.841	- 25
498	$\alpha$ Virginis	1.1	B 2	$13 20 58.555$	+3.1577	- 28	$-10 44 39.04$	-18.840	- 33
499	Gr. 2001	6.2	Ma	$13 24 5.550$	+1.5268	+ 35	$+72 48 23.93$	-18.726	- 15
500	69 H. Urs. maj.	5.5	A	$13 25 31.077$	+2.2056	-110	$+60 21 31.22$	-18.629	+ 37
501	$\zeta$ Virginis	3.3	A 2	$13 30 36.919$	+3.0553	-190	$- 0 11 14.59$	-18.464	+ 35
502	17 H. Can. ven.	4.9	F	$13 31 13.571$	+2.6803	+ 64	$+37 35 30.60$	-18.492	- 14
503	[Chamael. 49 G.]	6.4	A	$13 32 18.996$	+5.0612	- 49	$-75 16 34.93$	-18.454	- 14
504	$\epsilon$ Centauri	2.4	B I	$13 34 48.473$	+3.7834	- 37	$-53 3 36.91$	-18.388	- 34
505	[Gr. 2029]	5.9	G 5	$13 35 15.554$	+1.4374	- 86	$+71 38 56.92$	-18.339	0
506	[i Centauri]	4.3	F 5	$13 41 8.148$	+3.4012	-371	$-32 38 22.94$	-18.281	-156
507	$\tau$ Bootis	4.5	F 5	$13 43 27.628$	+2.8509	-340	$+17 51 17.75$	-18.009	+ 29
509	$\eta$ Ursae maj.	1.8	B 3	$13 44 23.435$	+2.3673	-119	$+49 42 43.53$	-18.022	- 20
508	[ $\mu$ Centauri]	3.3	B 2 p	$13 44 47.372$	+3.6025	- 28	$-42 4 32.14$	-18.006	- 19
510	89 Virginis	5.2	K	$13 45 31.289$	+3.2557	- 69	$-17 44 10.15$	-17.996	- 38
511	[i Draconis]	4.8	Ma	$13 49 5.745$	+1.7524	0	$+65 7 5.46$	-17.819	- 2
512	$\zeta$ Centauri	2.6	B 2 p	$13 50 32.375$	+3.7279	- 70	$-46 53 42.74$	-17.819	- 61
513	$\eta$ Bootis	2.8	G	$13 50 52.536$	+2.8570	- 42	$+18 47 53.54$	-18.109	-364
514	[Cent. 294 G.]	4.9	K	$13 51 50.618$	+4.3137	- 46	$-63 17 42.40$	-17.740	- 35
515	[47 Hydrae]	5.5	B 8	$13 54 1.562$	+3.3610	- 34	$-24 34 56.52$	-17.655	- 40
517	11 Bootis	6.3	A	$13 57 32.883$	+2.7217	- 57	$+27 46 20.73$	-17.458	+ 8
516	$\tau$ Virginis	4.2	A 2	$13 57 34.428$	+3.0518	+ 13	$+ 1 55 51.75$	-17.495	- 30
518	$\beta$ Centauri	1	B I	$13 58 9.849$	+4.2106	- 28	$-59 59 16.32$	-17.480	- 40
519	[ $\pi$ Hydrae]	3.4	K	$14 1 48.651$	+3.4104	+ 30	$-26 17 51.58$	-17.433	-153
520	$\theta$ Centauri	2.1	K	$14 1 58.058$	+3.5210	-439	$-35 58 37.49$	-17.803	-530

Nr.	N a m e	Gr.	Spektrum	A.R. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in 0 <sup>s</sup> .0001	Dekl. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in 0 <sup>s</sup> .001
521	$\alpha$ Draconis	3.4	A	14 <sup>h</sup> 2 <sup>m</sup> 13.345	+1.6234	— 83	+64° 45' 28.43	—17.245	+ 16
522	$d$ Bootis	4.9	F 5	14 6 45.067	+2.7372	— 12	+25 28 12.18	—17.126	— 69
523	$\alpha$ Virginis	4.2	K	14 8 37.534	+3.1973	+ 4	— 9 54 7.14	—16.836	+ 134
524	$\delta$ Ursae min.	5.0	K	14 9 8.161	—0.2747	— 113	+77 55 24.43	—16.914	+ 32
525	$\iota$ Virginis	4.0	F 5	14 11 49.008	+3.1429	— 14	— 5 37 9.96	—17.251	— 431
526	$\alpha$ Bootis	1	K	14 12 0.714	+2.7359	— 777	+19 35 53.99	—18.811	—2000
528	[ $\iota$ Bootis]	4.6	A 5	14 13 20.018	+2.1258	— 159	+51 44 8.75	—16.662	+ 86
527	$\lambda$ Bootis	4.0	A	14 13 20.619	+2.2823	— 177	+46 27 18.41	—16.595	+ 152
529	[ $\nu$ Centauri]	4.4	B 5	14 14 43.417	+4.1675	— 47	—56 1 8.10	—16.720	— 39
530	[Circini 10 G.]	5.9	A 2 p	14 18 26.857	+4.9317	— 41	—67 49 57.33	—16.533	— 36
531	$\theta$ Bootis	3.9	F 8	14 22 28.433	+2.0430	— 256	+52 13 12.07	—16.699	— 404
532	[ $\zeta$ Hydrae]	5.1	B 8	14 23 28.946	+3.5063	— 29	—29 7 58.30	—16.274	— 30
533	[ $\varphi$ Virginis]	5.0	K	14 24 4.720	+3.0894	— 90	— 1 52 12.14	—16.220	— 7
534	$\rho$ Bootis	3.7	K	14 28 22.955	+2.5862	— 75	+30 43 19.02	—15.876	+ 113
535	$\gamma$ Bootis	2.9	F	14 28 51.437	+2.4169	— 93	+38 39 27.29	—15.819	+ 145
536	[Gr. 2125]	6.4	A	14 29 32.471	+1.6282	— 59	+60 34 39.93	—15.909	+ 19
537	$\tau$ Centauri	2.5	B 3 p	14 30 25.185	+3.7984	— 36	—41 48 26.01	—15.917	— 36
538	$\alpha$ Centauri <sup>1)</sup>	1	K 5; G	14 34 9.210	+4.0572	—4875	—60 30 21.80	—15.967	+ 713
540	[33 Bootis]	5.5	A	14 35 51.608	+2.2329	— 68	+44 44 57.36	—15.612	— 26
539	[ $\alpha$ Circini]	3.3	F	14 36 1.300	+4.8144	— 320	—64 37 39.81	—15.815	— 238
541	[ $\alpha$ Lupi]	2.4	B 2	14 36 36.029	+3.9769	— 20	—47 2 44.74	—15.581	— 36
543	$\zeta$ Bootis m.	3.6	A 2	14 37 19.670	+2.8641	+ 37	+14 4 14.58	—15.531	— 27
542	$\alpha$ Apodis	3.8	K 5	14 37 51.027	+7.3203	— 56	—78 42 24.58	—15.510	— 35
544	[ $\epsilon$ Centauri]	4.1	K	14 38 45.477	+3.6604	— 61	—34 49 48.38	—15.623	— 198
545	$\mu$ Virginis	3.9	F 5	14 38 50.508	+3.1589	+ 69	— 5 18 40.34	—15.747	— 326
546	[ $\delta$ Lupi]	5.9	K	14 41 24.936	+4.1796	— 24	—52 2 45.15	—15.368	— 92
547	109 Virginis	3.7	A	14 42 12.170	+3.0314	— 75	+ 2 13 44.97	—15.270	— 39
548	$\alpha$ Librae	2.7	A 2	14 46 26.953	+3.3146	— 77	—15 42 36.61	—15.060	— 74
549	Gr. 2164	5.8	K	14 49 24.435	+1.5201	— 170	+59 37 6.95	—14.684	+ 129
550	$\beta$ Ursae min.	2.0	K 5	14 50 55.357	—0.2011	— 78	+74 28 56.84	—14.717	+ 7
551	P. XIV, 221	6.0	A	14 52 26.622	+2.8309	— 10	+14 46 7.49	—14.652	— 18
552	$\beta$ Lupi	2.7	B 2 p	14 53 17.013	+3.9170	— 51	—42 48 45.81	—14.644	— 60
553	[ $\alpha$ Centauri]	3.2	B 3	14 53 56.982	+3.8925	— 21	—41 47 2.81	—14.577	— 33
554	[2H. Urs. min.]	4.8	M b	14 56 18.320	+0.9453	— 147	+66 15 3.20	—14.367	+ 34
555	$\beta$ Bootis	3.3	G 5	14 58 55.953	+2.2600	— 36	+40 42 19.36	—14.283	— 43
556	$\gamma$ Scorpii	3.4	M b	14 59 22.996	+3.5058	— 57	—24 58 6.69	—14.268	— 55
557	$\psi$ Bootis	4.5	K	15 1 1.046	+2.5706	— 131	+27 15 31.74	—14.126	— 15
558	$\zeta$ Lupi	3.4	K	15 6 31.627	+4.2938	— 133	—51 47 44.77	—13.838	— 73
559	[ $\iota$ Librae]	4.6	A p	15 7 39.438	+3.4150	— 32	—19 29 23.69	—13.740	— 47
562	[3 Serpentis]	5.5	G 2	15 11 12.674	+2.9807	— 12	+ 5 14 7.64	—13.471	— 7

Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in o°.0001	Dekl 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in o°.001
561	[β Circini]	4.2	A 3	15 11 <sup>h</sup> 14.278	+4.6757	-130	-58° 30' 12.92	-13.611	- 149
560	γ Triang. austr.	2.9	A	15 11 25.173	+5.5633	-101	-68 23 7.36	-13.487	- 37
563	δ Bootis	3.2	K	15 12 16.650	+2.4191	+ 73	+33 36 45.12	-13.516	- 122
564	β Librae	2.5	B 8	15 12 41.972	+3.2256	- 65	- 9 5 19.15	-13.394	- 27
565	ι H. Urs. min.	5.3	G	15 13 42.859	+0.6797	+386	+67 39 1.02	-13.696	- 395
566	φ <sup>1</sup> Lupi	3.5	K 5	15 16 43.423	+3.7985	- 82	-35 58 19.86	-13.198	- 95
569	γ Ursae min.	3.0	A 2	15 20 50.622	-0.1133	- 32	+72 7 7.16	-12.812	+ 16
568	μ Bootis	4.1	F	15 21 28.071	+2.2662	-123	+37 39 25.29	-12.706	+ 81
570	[τ <sup>1</sup> Serpentis]	5.5	M a	15 22 4.716	+2.7815	- 11	+15 42 30.33	-12.769	- 24
567	[κ <sup>1</sup> Apodis]	5.9	B 5 p	15 22 45.769	+6.4794	+ 5	-73 6 49.41	-12.736	- 37
571	ι Draconis	3.2	K	15 23 8.873	+1.3322	- 5	+59 14 45.23	-12.658	+ 14
572	β Coron. bor.	3.7	F p	15 24 31.830	+2.4738	-131	+29 22 50.47	-12.503	+ 76
573	ν <sup>1</sup> Bootis	4.8	K 5	15 28 3.323	+2.1548	+ 10	+41 6 18.30	-12.350	- 13
574	[ε Triang. austr.]	4.3	K	15 29 22.778	+5.4574	+ 29	-66 2 58.20	-12.327	- 82
576	[θ Coron. bor.]	4.1	B 5	15 29 42.190	+2.4187	- 17	+31 37 41.82	-12.250	- 26
575	γ Lupi	2.9	B 3	15 29 48.146	+3.9879	- 26	-40 53 56.23	-12.256	- 39
577	γ Librae	4.1	K	15 31 2.890	+3.3527	+ 43	-14 31 25.13	-12.127	+ 3
578	α Coron. bor.	2.2	A	15 31 18.016	+2.5398	+ 93	+26 58 59.18	-12.211	- 98
579	[3 H. Scorpii]	3.9	K 2	15 32 9.777	+3.6363	- 11	-27 52 16.23	-12.063	- 11
580	[φ Bootis]	5.3	K	15 34 57.206	+2.1545	+ 58	+40 36 47.45	-11.804	+ 52
581	[γ Coron. bor.]	3.8	A	15 39 22.978	+2.5194	- 74	+26 32 53.48	-11.508	+ 34
582	α Serpentis	2.5	K	15 40 19.567	+2.9536	+ 91	+ 6 40 35.07	-11.432	+ 42
583	β Serpentis	3.4	A 2	15 42 29.683	+2.7683	+ 51	+15 40 16.55	-11.373	- 54
584	κ Serpentis	4.0	K 5	15 45 8.286	+2.7001	- 31	+18 23 15.75	-11.225	- 98
587	[ι <sub>2</sub> H. Dracon.]	5.3	A 2	15 45 26.576	+0.9091	+ 55	+62 50 47.27	-11.166	- 61
585	μ Serpentis	3.3	A	15 45 26.589	+3.1287	- 59	- 3 11 11.00	-11.136	- 32
586	[χ Lupi]	4.1	B 9	15 45 52.189	+3.8053	- 15	-33 23 4.09	-11.104	- 30
588	ε Serpentis	3.5	A	15 46 49.600	+2.9889	+ 84	+ 4 43 3.29	-10.944	+ 59
590	ζ Ursae min.	4.3	A 2	15 46 52.971	-2.1960	+ 60	+78 2 28.51	-10.999	- 1
589	β Triang. austr.	2.9	F	15 48 4.796	+5.2626	-279	-63 11 6.70	-11.318	- 407
591	[γ Serpentis]	3.7	F 8	15 52 45.407	+2.7700	+212	+15 55 18.28	-11.861	-1295
592	[π Scorpii]	3.0	B 2 p	15 54 0.474	+3.6242	- 15	-25 53 5.99	-10.510	- 37
593	ε Coron. bor.	4.0	K	15 54 16.474	+2.4829	- 61	+27 6 31.24	-10.521	- 68
594	δ Scorpii	2.3	B	15 55 35.978	+3.5434	- 8	-22 23 42.72	-10.390	- 36
595	[Gr. 2296]	5.1	A 5	15 55 53.391	+1.4201	-187	+54 58 31.15	-10.221	+ 111
598	θ Draconis	3.8	F 8	16 0 23.279	+1.1213	-402	+58 46 42.79	- 9.653	+ 340
597	β Scorpii	2.6	B 1	16 0 46.918	+3.4846	- 7	-19 35 15.37	- 9.990	- 27
596	[δ Normae]	4.8	A 3 p	16 0 49.820	+4.2302	- 5	-44 57 27.21	- 9.954	+ 6
599	[θ Lupi]	4.4	B 3	16 1 19.992	+3.9318	- 29	-36 35 8.44	- 9.962	- 41
601	[φ Herculis]	4.0	A	16 6 14.900	+1.8894	- 23	+45 8 38.24	- 9.514	+ 31



Nr.	Name	Gr.	Spektrum	AR. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in 0''.001	Dekl. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in 0''.001
600	[ $\alpha$ Normae]	5.3	K	16 <sup>h</sup> 7 <sup>m</sup> 9.495	+4.7150	- 42	-54° 25' 30''.69	-9.541	- 65
602	[ $\delta$ Triang. austr.]	4.0	G	16 8 8.614	+5.4390	+ 7	-63 28 58.16	-9.426	- 26
603	$\delta$ Ophiuchi	2.8	M a	16 10 9.084	+3.1420	- 30	- 3 29 21.85	-9.394	-150
606	19 Ursae min.	5.8	B 8	16 13 5.082	-1.7433	- 4	+76 4 46.33	-9.003	+ 13
604	$\gamma^2$ Normae	4.2	K	16 13 50.743	+4.4765	-190	-49 57 38.09	-9.017	- 61
605	$\epsilon$ Ophiuchi	3.2	K	16 14 5.182	+3.1721	+ 53	- 4 29 54.94	-8.906	+ 31
607	[ $\sigma$ Scorpii]	3.1	B I	16 16 19.337	+3.6424	- 11	-25 24 7.41	-8.795	- 33
608	$\tau$ Herculis	3.6	B 5	16 17 20.111	+1.8024	- 9	+46 30 11.59	-8.650	+ 32
609	$\gamma$ Herculis	3.5	F	16 18 23.396	+2.6454	- 36	+19 20 24.33	-8.559	+ 40
612	[ $\eta$ Ursae min.]	5.1	F	16 19 49.416	-1.7833	-217	+75 56 24.99	-8.230	+256
610	[ $\zeta$ Triang. austr.]	5.2	G	16 19 50.546	+6.4190	+366	-69 54 21.61	-8.400	+ 83
611	$\gamma$ Apodis	3.9	K	16 21 8.024	+9.1205	-385	-78 43 12.32	-8.452	- 71
613	[ $\omega$ Herculis]	4.7	A p	16 21 43.369	+2.7677	+ 28	+14 12 59.07	-8.403	- 68
614	[Gr. 2343]	5.8	A	16 22 40.268	+1.3105	+ 20	+55 23 11.53	-8.241	+ 18
615	$\eta$ Draconis	2.7	G 5	16 22 54.240	+0.8079	- 28	+61 41 42.07	-8.180	+ 61
616	$\alpha$ Scorpii	1.2	M a p	16 24 29.938	+3.6748	- 7	-26 15 20.44	-8.142	- 28
618	$\beta$ Herculis	2.6	K	16 26 46.804	+2.5783	- 69	+21 39 46.80	-7.951	- 21
617	[ $\lambda$ Ophiuchi]	3.7	A	16 26 52.621	+3.0242	- 23	+ 2 9 28.29	-8.013	- 90
619	$\lambda$ Draconis	5.0	B 8 p	16 28 7.920	-0.1279	- 51	+68 56 28.54	-7.787	+ 35
620	[ $\tau$ Scorpii]	2.9	B	16 30 53.924	+3.7306	- 11	-28 3 4.65	-7.632	- 33
621	$\sigma$ Herculis	4.1	A	16 31 31.408	+1.9336	- 6	+42 36 4.73	-7.509	+ 38
622	$\zeta$ Ophiuchi	2.6	B	16 32 45.105	+3.3015	+ 9	-10 24 22.20	-7.426	+ 22
623	[Gr. 2373]	6.5	G 5	16 34 3.689	-2.6179	-318	+77 36 23.61	-7.067	+275
624	[24 Scorpii]	5.2	K	16 36 56.619	+3.4670	- 19	-17 35 18.42	-7.109	- 2
626	$\eta$ Herculis	3.3	K	16 40 9.172	+2.0563	+ 34	+39 4 25.34	-6.927	- 84
625	$\alpha$ Triang. austr.	1.9	K 2	16 40 10.733	+6.3283	+ 32	-68 52 58.19	-6.890	- 49
627	Gr. 2377	4.9	F 5	16 43 46.669	+1.1362	+ 29	+56 55 27.61	-6.487	+ 58
628	$\epsilon$ Scorpii	2.3	K	16 44 58.660	+3.8810	-501	-34 8 57.11	-6.700	-254
629	49 Herculis	6.5	A	16 48 26.271	+2.7306	+ 12	+15 6 26.75	-6.164	- 6
630	$\zeta^2$ Scorpii	3.8	K 5	16 48 56.907	+4.2144	-134	-42 13 32.22	-6.353	+238
631	$\zeta$ Arae	3.0	K 5	16 51 59.606	+4.9548	- 30	-55 51 55.26	-5.909	- 48
632	[ $\epsilon^1$ Arae]	4.0	K 2	16 53 12.041	+4.7717	- 19	-53 2 20.75	-5.768	- 8
633	$\alpha$ Ophiuchi	3.2	K	16 53 52.835	+2.8385	-198	+ 9 29 54.14	-5.716	- 13
634	$\epsilon$ Herculis	3.6	A	16 57 13.694	+2.2949	- 35	+31 2 36.11	-5.398	+ 24
635	[60 Herculis]	4.9	A 3	17 1 40.052	+2.7811	+ 34	+12 50 58.78	-5.062	- 15
636	[Gr. 2415]	6.4	A	17 5 10.118	+1.9562	- 29	+40 37 11.76	-4.778	- 28
637	$\eta$ Ophiuchi	2.4	A	17 5 47.291	+3.4384	+ 23	-15 37 37.35	-4.607	+ 90
638	[ $\eta$ Scorpii]	3.4	F 2	17 6 25.195	+4.2924	+ 17	-43 8 6.40	-4.942	-298
639	$\zeta$ Draconis	3.0	B 5	17 8 33.114	+0.1692	- 29	+65 48 47.10	-4.440	+ 22
640	$\alpha$ Herculis	(3.0)	M h	17 10 59.929	+2.7347	- 8	+14 28 49.76	-4.224	+ 29

Nr.	N a m e	Gr.	Spektrum	A.R. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".0001	Dekl. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".001
641	δ Herculis	3.0	A	17 <sup>h</sup> 11 <sup>m</sup> 44.702	+2.4637	- 15	+24 55 57.55	-4.348	-159
643	π Herculis	3.1	K 2	17 12 15.608	+2.0890	- 21	+36 53 54.74	-4.144	+ 1
642	[ι Apodis]	5.7	A	17 13 9.856	+6.6746	- 14	-70 2 28.16	-4.095	- 27
644	θ Ophiuchi	3.2	B 3	17 17 5.658	+3.6821	- 7	-24 55 15.28	-3.755	- 25
645	β Arae	2.7	K 2	17 18 38.730	+4.9810	- 14	-55 27 21.27	-3.639	- 42
646	[δ Ophiuchi]	4.5	F 5	17 22 14.610	+3.8282	+ 6	-29 47 45.18	-3.432	-145
647	[27 H. Ophiuchi]	4.5	F	17 22 23.146	+3.1826	- 58	- 5 1 1.31	-3.326	- 51
648	δ Arae	3.6	B 8	17 23 52.382	+5.4097	- 70	-60 37 7.40	-3.248	-101
650	[x Herculis]	6.0	A	17 24 36.976	+1.5895	+ 2	+48 19 35.19	-3.101	- 19
649	[υ Scorpii]	2.8	B 3	17 25 19.240	+4.0743	- 24	-37 14 0.04	-3.061	- 39
651	α Arae	2.8	B 3 p	17 25 39.257	+4.6333	- 38	-49 48 51.59	-3.086	- 94
652	λ Scorpii	1.7	B 2	17 28 10.406	+4.0704	- 14	-37 2 48.31	-2.807	- 32
653	β Draconis	2.7	G	17 28 37.462	+1.3547	- 15	+52 21 36.23	-2.726	+ 10
655	[ν <sup>1</sup> Draconis]	4.7	A 5	17 30 36.009	+1.1807	+176	+55 14 18.32	-2.514	+ 51
657	[ν <sup>2</sup> Draconis]	4.8	A 5	17 30 41.424	+1.1819	+181	+55 13 37.06	-2.505	+ 52
656	α Ophiuchi	2.1	A 5	17 31 13.203	+2.7839	+ 79	+12 37 1.93	-2.744	-233
654	θ Scorpii	1.9	F	17 31 34.045	+4.3071	0	-42 56 54.26	-2.498	- 18
659	[f Draconis]	5.2	K	17 32 16.870	-0.2448	- 32	+68 11 9.85	-2.284	+134
658	ξ Serpentis	3.5	A 5	17 33 0.265	+3.4336	- 34	-15 20 57.84	-2.420	- 65
660	[z Scorpii]	2.5	B 2	17 36 57.067	+4.1476	- 15	-38 59 24.14	-2.039	- 26
663	ι Herculis	3.6	B 3	17 37 12.353	+1.6929	- 5	+46 2 53.35	-1.994	- 4
664	ω Draconis	4.9	F 5	17 37 25.040	-0.3538	+ 12	+68 47 42.23	-1.649	+323
662	[μ Arae]	5.6	K	17 37 47.396	+4.7596	- 29	-51 47 34.77	-2.148	-208
661	η Pavonis	3.5	K	17 37 52.604	+5.8827	- 22	-64 41 14.15	-1.988	- 56
665	β Ophiuchi	2.8	K	17 39 31.187	+2.9629	- 27	+ 4 35 58.50	-1.636	+153
666	[ι <sup>1</sup> Scorpii]	3.0	F 5 p	17 41 59.223	+4.1934	- 11	-40 5 50.16	-1.576	- 3
667	μ Herculis	3.3	G 5	17 43 19.586	+2.3469	-241	+27 45 59.72	-2.208	-751
670	ψ Draconis	4.7	F 5	17 43 21.447	-1.0728	+ 29	+72 11 18.53	-1.721	-267
668	[γ Ophiuchi]	3.7	A	17 43 52.841	+3.0075	- 16	+ 2 44 10.57	-1.486	- 77
669	[G Scorpii]	3.1	K 2	17 44 24.681	+4.0823	+ 42	-37 1 8.85	-1.336	+ 26
671	ξ Draconis	3.6	K	17 52 8.713	+1.0372	+120	+56 53 5.25	-0.610	+ 76
675	35 Draconis	5.1	F 5	17 53 1.680	-2.6897	+115	+76 58 27.55	-0.368	+241
672	θ Herculis	3.8	K	17 53 30.539	+2.0570	+ 4	+37 15 37.22	-0.563	+ 5
673	ν Ophiuchi	3.4	K	17 54 37.298	+3.3019	- 7	- 9 45 53.64	-0.588	-118
674	[ξ Herculis]	3.7	K	17 54 39.344	+2.3310	+ 66	+29 15 19.95	-0.493	- 26
676	γ Draconis	2.3	K 5	17 54 44.879	+1.3924	- 9	+51 29 51.86	-0.482	- 22
677	67 Ophiuchi	4.0	B 5 p	17 56 38.274	+3.0042	0	+ 2 56 3.57	-0.307	- 13
678	[Apodis 66 G.]	6.0	A	18 0 3.941	+8.3865	- 47	-75 53 44.56	-0.264	-270
679	γ Sagittarii	3.0	K	18 0 40.072	+3.8528	- 47	-30 25 34.99	-0.136	-194
680	72 Ophiuchi	3.6	A 2	18 3 33.388	+2.8437	- 42	+ 9 33 5.14	+0.390	+ 78

Nr.	Name	Gr.	Spektrum	AR. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in o".0001	Dekl. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in o".0001
681	o Herculis	3.8	A	18 <sup>b</sup> 4 <sup>m</sup> 25.289	+2.3399	+ 2	+28° 45' 1.94	+0.387	0
682	μ Sagittarii	3.9	B 8 p	18 8 58.716	+3.5872	- 3	-21 4 51.73	+0.782	- 3
683	[γ Sagittarii]	3.1	M b	18 12 12.786	+4.0588	- 117	-36 47 13.10	+0.905	-163
684	[Gr. 2533]	5.6	B 5	18 13 9.438	+1.8653	- 6	+42 7 52.60	+1.143	- 7
685	[36 Draconis]	5.0	F 5	18 13 26.169	+0.3454	+ 533	+64 22 12.00	+1.204	+ 30
686	[ξ Pavonis]	4.2	K 2	18 15 51.222	+5.5288	- 26	-61 31 54.13	+1.403	+ 17
687	[δ Sagittarii]	2.7	K	18 15 52.342	+3.8409	+ 27	-29 51 48.10	+1.355	- 32
688	γ Serpentis	3.2	K	18 17 10.192	+3.1035	- 372	- 2 55 14.56	+0.802	-698
689	ε Sagittarii	1.9	A	18 18 51.713	+3.9824	- 30	-34 25 25.25	+1.521	-127
690	109 Herculis	3.9	K	18 20 17.313	+2.5561	+ 140	+21 43 56.27	+1.515	-257
691	α Telescopii	3.7	B 3	18 21 2.504	+4.4493	- 21	-46 0 49.69	+1.790	- 47
693	[φ Draconis]	4.3	A p	18 21 54.375	-0.8580	- 17	+71 17 43.75	+1.946	+ 33
695	χ Draconis	3.6	F 8	18 22 30.030	-1.0800	+1167	+72 41 54.51	+1.601	-364
694	δ Draconis	5.1	A 2	18 22 44.551	+0.8765	- 45	+58 45 14.31	+2.044	+ 58
692	[λ Sagittarii]	2.8	K	18 23 1.997	+3.7023	- 37	-25 28 1.73	+1.824	-188
696	[2 H. Scuti]	4.8	A 3	18 24 38.259	+3.4190	- 3	-14 37 4.44	+2.153	+ 2
697	[θ Coron. austr.]	4.7	G 5	18 27 47.399	+4.2843	+ 14	-42 22 17.34	+2.401	- 24
700	[Gr. 2655]	6.1	K	18 33 37.318	-2.8843	- 10	+77 29 8.10	+2.928	- 3
698	ζ Pavonis	4.0	K	18 33 41.655	+7.0208	- 25	-71 29 56.33	+2.759	-178
699	α Lyrae	1	A	18 34 13.776	+2.0313	+ 176	+38 42 30.28	+3.264	+281
701	[Gr. 2640]	6.2	A	18 35 58.247	+0.1894	+ 19	+65 25 1.18	+3.218	+ 84
702	[5 H. Scuti]	5.1	G	18 39 9.848	+3.2674	+ 13	- 8 21 19.19	+3.418	+ 9
703	110 Herculis	4.1	F 5	18 42 13.102	+2.5811	- 12	+20 28 7.59	+3.331	-340
704	λ Pavonis	4.3	B 2	18 44 48.480	+5.5650	- 26	-62 16 51.53	+3.867	- 27
705	β Lyrae	(3.3)	B 2 p	18 47 7.567	+2.2147	+ 3	+33 16 8.49	+4.091	- 2
707	o Draconis	4.6	K	18 50 1.321	+0.8868	+ 105	+59 17 24.73	+4.365	+ 25
706	σ Sagittarii	2.1	B 3	18 50 18.316	+3.7205	+ 4	-26 23 50.57	+4.302	- 63
708	λ Telescopii	5.1	B 9	18 52 3.915	+4.8036	+ 3	-53 2 40.48	+4.529	+ 14
709	θ Serpent. pr.	4.5	A 5	18 52 14.549	+2.9823	+ 29	+ 4 5 54.20	+4.558	+ 28
711	R Lyrae	(4.5)	M b	18 52 54.065	+1.8262	+ 28	+43 50 23.89	+4.662	+ 76
710	[ξ Sagittarii]	3.6	K	18 52 57.473	+3.5794	+ 18	-21 12 46.87	+4.574	- 16
714	[ν Draconis]	5.0	K	18 55 22.981	-0.7263	+ 103	+71 11 25.75	+4.837	+ 40
713	γ Lyrae	3.2	A	18 55 57.034	+2.2437	- 4	+32 34 44.34	+4.844	- 2
712	[ε Aquilae]	4.0	K	18 55 59.463	+2.7221	- 42	+14 57 31.06	+4.769	- 80
715	[ζ Sagittarii]	2.7	A 2	18 57 31.349	+3.8179	- 21	-29 59 44.34	+4.981	+ 2
716	ζ Aquilae	3.0	A	19 1 43.971	+2.7569	- 7	+13 44 36.64	+5.234	-101
717	λ Aquilae	3.2	A	19 2 0.218	+3.1839	- 16	- 5 0 12.88	+5.271	- 87
718	α Coron. austr.	4.1	A 2	19 4 1.844	+4.0834	+ 59	-38 1 49.54	+5.419	-109
719	[ι Lyrae]	5.2	B 5	19 4 26.808	+2.1406	- 3	+35 58 26.21	+5.559	- 3
720	π Sagittarii	2.9	F 2	19 5 0.476	+3.5686	- 5	-21 9 7.11	+5.574	- 35

Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o°.0001	Dekl. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in o°.001
721	[Pavonis 60 G.]	5.7	A 2	19 <sup>h</sup> 9 <sup>m</sup> 9.941	+6.0491	— 7	—66° 48' 3.22	+ 5.937	— 21
723	δ Draconis	3.0	K	19 12 32.441	+0.0203	+ 167	+67 31 14.76	+ 6.327	+ 88
722	[d Sagittarii]	5.2	K 5	19 12 57.313	+3.5109	— 12	—19 5 46.91	+ 6.265	— 9
724	θ Lyrae	4.3	K	19 13 35.448	+2.0816	— 7	+37 59 25.65	+ 6.325	— 1
725	ω Aquilae	5.4	A	19 14 3.678	+2.8158	— 3	+11 27 0.55	+ 6.379	+ 13
726	z Cygni	3.8	K	19 15 15.280	+1.3875	+ 69	+53 13 13.07	+ 6.584	+ 119
729	τ Draconis	4.5	K	19 17 6.014	—1.1397	— 325	+73 12 26.56	+ 6.727	+ 110
727	[v Sagittarii]	4.5	B 8 p	19 17 8.801	+3.4370	+ 1	—16 6 22.41	+ 6.619	— 2
728	α Sagittarii	4.0	B 8	19 18 20.734	+4.1600	+ 18	—40 46 3.59	+ 6.602	— 118
730	δ Aquilae	3.3	F	19 21 27.895	+3.0248	+ 168	+ 2 57 15.24	+ 7.057	+ 81
731	[Sagittar. 186 G.]	5.8	A	19 21 53.230	+3.7934	+ 7	—29 54 9.30	+ 6.964	— 47
734	[Gr. 2900]	6.4	A	19 26 33.750	—3.5831	+ 96	+79 26 37.03	+ 7.357	— 35
732	β Cygni	3.0	K p	19 27 29.681	+2.4189	— 2	+27 47 26.80	+ 7.460	— 8
733	ι Cygni	3.9	A 2	19 27 41.368	+1.5132	+ 22	+51 33 31.41	+ 7.609	+ 125
735	[ι Telescopii]	5.1	K	19 29 17.030	+4.4548	— 41	—48 16 22.44	+ 7.573	— 40
736	h Sagittarii	4.6	B 9	19 31 50.431	+3.6527	+ 46	—25 3 40.74	+ 7.798	— 22
737	[z Aquilae]	5.0	B	19 32 35.315	+3.2284	+ 3	— 7 12 22.85	+ 7.880	0
738	θ Cygni	4.5	F 5	19 34 17.760	+1.6084	— 29	+50 2 6.55	+ 8.264	+ 247
740	[15 Cygni]	5.2	K	19 41 23.465	+2.1632	+ 59	+37 9 37.34	+ 8.617	+ 35
739	[v Telescopii]	5.5	A 5	19 41 29.575	+4.9094	+ 86	—56 33 22.22	+ 8.453	— 137
741	γ Aquilae	2.7	K 2	19 42 27.378	+2.8520	+ 9	+10 25 2.59	+ 8.666	0
742	δ Cygni	2.8	A	19 42 28.492	+1.8756	+ 51	+44 56 5.19	+ 8.707	+ 39
743	δ Sagittae	3.8	M a p	19 43 49.229	+2.6749	+ 4	+18 20 9.68	+ 8.786	+ 13
744	[51 Aquilae]	5.8	A	19 46 22.773	+3.3022	— 21	—10 58 2.73	+ 9.015	+ 41
745	α Aquilae	1	A 5	19 46 52.798	+2.9270	+ 360	+ 8 39 21.93	+ 9.396	+ 383
746	[r Aquilae]	(4.0)	G	19 48 23.895	+3.0567	+ 6	+ 0 47 57.52	+ 9.123	— 9
747	ε Draconis	3.8	K	19 48 27.092	—0.1912	+ 156	+70 3 50.96	+ 9.165	+ 30
748	ε Pavonis	3.8	A	19 51 21.770	+6.9824	+ 147	—73 7 24.50	+ 9.229	— 132
749	β Aquilae	3.7	K	19 51 23.015	+2.9467	+ 25	+ 6 12 21.61	+ 8.883	— 480
750	ψ Cygni	5.0	A 3	19 53 33.716	+1.5514	— 43	+52 13 33.62	+ 9.500	— 31
751	θ <sup>1</sup> Sagittarii	4.3	B 3	19 54 31.894	+3.9080	— 12	—35 29 37.62	+ 9.570	— 36
752	γ Sagittae	3.6	K 5	19 55 11.940	+2.6675	+ 43	+19 16 26.34	+ 9.681	+ 24
753	[c Sagittarii]	4.6	M b	19 57 44.477	+3.6919	+ 21	—27 55 59.97	+ 9.869	+ 18
754	δ Pavonis	3.5	G 5	20 0 53.492	+5.9102	+1961	—66 23 15.65	+ 8.926	—1163
755	[ε Telescopii]	5.2	M a	20 1 15.682	+4.6055	— 44	—53 6 40.02	+10.116	— 2
756	θ Aquilae	3.1	A	20 7 10.664	+3.0959	+ 22	— 1 3 35.00	+10.567	+ 5
757	ο <sup>1</sup> Cygni sq.	4.3	K p	20 11 6.748	+1.8892	+ 4	+46 29 52.93	+10.853	+ 1
758	[33 Cygni]	4.3	A 3	20 11 32.344	+1.3960	+ 74	+56 19 21.20	+10.969	+ 85
759	z Cephei	4.3	B 9	20 11 36.542	—1.9750	+ 12	+77 28 16.01	+10.916	+ 27
760	24 Vulpeculae	5.7	K	20 13 21.684	+2.5669	+ 12	+24 25 25.78	+10.998	— 19

Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in o <sup>s</sup> .oor	Dekl. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in o <sup>s</sup> .oor
761	α <sup>2</sup> Capricorni	3.6	K	20 13 37.045	+3.3301	+ 40	-12° 47' 37.37"	+11.047	+ 11
762	[β Capricorni]	3.1	G p	20 16 31.080	+3.3721	+ 23	-15 2 5.89	+11.252	+ 6
763	[x <sup>1</sup> Sagittarii]	5.8	A	20 17 1.911	+4.0816	+ 37	-42 18 10.22	+11.188	- 96
764	α Pavonis	1.9	B 3	20 19 19.692	+4.7624	+ 11	-53 59 33.19	+11.364	- 85
765	γ Cygni	2.3	F 8 p	20 19 21.398	+2.1527	+ 4	+39 59 59.76	+11.452	0
766	[ρ Capricorni]	5.0	F	20 24 17.962	+3.4240	- 14	-18 4 44.58	+11.788	- 16
767	θ Cephei	4.1	A	20 28 14.520	+1.0107	+ 62	+62 43 29.52	+12.066	- 14
768	ε Delphini	3.9	B 5	20 29 23.463	+2.8662	+ 5	+11 1 49.72	+12.136	- 25
769	α Jndi	3.0	K	20 31 56.722	+4.2284	+ 33	-47 34 17.55	+12.397	+ 60
770	73 Draconis	5.3	A 3	20 32 34.820	-0.7623	+ 15	+74 40 50.44	+12.370	- 12
771	-β Delphini	3.5	F 5	20 33 47.852	+2.8130	+ 74	+14 18 57.57	+12.429	- 36
772	[x Delphini]	5.1	G 2	20 35 14.634	+2.9139	+ 212	+ 9 48 12.86	+12.582	+ 18
773	ν Capricorni	5.5	M a	20 35 29.870	+3.4175	- 17	-18 25 16.51	+12.565	- 16
774	α Delphini	3.7	B 8	20 35 55.334	+2.7866	+ 45	+15 37 44.29	+12.604	- 6
775	β Pavonis	3.3	A 5	20 37 46.035	+5.4382	- 71	-66 29 31.25	+12.736	+ 2
776	[η Jndi]	4.8	F	20 38 10.293	+4.4173	+ 157	-52 12 28.54	+12.689	- 73
777	α Cygni	1.3	A 2	20 38 42.251	+2.0448	+ 4	+44 59 37.73	+12.797	- 1
778	[δ Delphini]	4.2	A 2	20 39 43.443	+2.8008	- 14	+14 47 12.20	+12.819	- 48
779	[ψ Capricorni]	4.2	F 8	20 41 21.704	+3.5555	- 44	-25 33 33.74	+12.819	- 157
780	ε Cygni	2.4	K	20 42 58.427	+2.4272	+ 290	+33 40 11.64	+13.410	+ 327
781	ε Aquarii	3.6	A	20 43 20.799	+3.2489	+ 17	- 9 47 22.00	+13.080	- 28
782	[6 H. Cephei]	4.5	G	20 43 22.016	+1.4898	- 87	+57 17 31.85	+12.875	- 234
783	η Cephei	3.5	K	20 43 39.900	+1.2240	+ 132	+61 31 39.60	+13.947	+ 818
784	λ Cygni	4.6	B 5	20 44 17.499	+2.3360	+ 5	+36 11 46.00	+13.170	0
785	β Jndi	3.6	K	20 48 34.031	+4.7061	0	-58 45 25.29	+13.423	- 27
786	32 Vulpeculae	5.3	K	20 51 8.994	+2.5563	- 4	+27 45 9.56	+13.618	+ 1
788	ν Cygni	3.9	A	20 54 11.393	+2.2358	+ 9	+40 51 30.46	+13.793	- 17
787	[α Octantis]	5.5	F 5	20 55 4.460	+7.3637	- 17	-77 19 49.16	+13.511	- 355
789	[II Aquarii]	6.4	F 8	20 56 21.134	+3.1597	+ 23	- 5 2 24.38	+13.814	- 133
790	ζ Microscopii	5.4	F	20 57 51.487	+3.8399	- 36	-38 56 41.43	+13.920	- 122
792	[ξ Cygni]	3.9	K 5	21 2 1.225	+2.1817	+ 12	+43 36 28.87	+14.296	- 3
791	[A Capricorni]	4.6	M a	21 2 27.063	+3.5121	- 30	-25 19 35.54	+14.278	- 47
793	61 Cygni pr.	5.4	K 5	21 3 18.576	+2.6863	+3505	+38 21 19.15	+17.631	+3253
794	ν Aquarii	4.4	K	21 5 14.298	+3.2700	+ 62	-11 41 46.98	+14.485	- 9
795	Br. 2777	6.0	A	21 7 7.569	-1.1531	+ 74	+77 48 8.16	+14.644	+ 36
797	ζ Cygni	3.1	K	21 9 31.831	+2.5523	- 1	+29 53 53.14	+14.693	- 59
798	[Gr. 3415]	5.8	B 1	21 9 46.077	+1.5281	- 6	+59 39 25.75	+14.763	- 2
796	[Jndi 23 G.]	5.9	A 5	21 10 3.369	+4.2948	- 19	-53 35 43.39	+14.737	- 46
799	[τ Cygni]	3.8	F	21 11 35.800	+2.3938	+ 137	+37 42 11.94	+15.308	+ 435
800	α Equulei	3.9	A 8 p	21 11 49.519	+2.9995	+ 38	+ 4 54 58.76	+14.799	- 87

Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001	Dekl. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
801	[4 Pisc. austr.]	4.8	A	21 <sup>h</sup> 13 <sup>m</sup> 5.443	+3.6430	+ 35	-32° 30' 27.58	+14.934	- 26
802	[ <sup>θ</sup> 1 Microscop.]	4.9	A 2 p	21 15 38.988	+3.8472	+ 70	-41 8 54.13	+15.122	+ 14
803	α Cephei	2.5	A 5	21 16 40.267	+1.4335	+ 212	+62 14 46.48	+15.216	+ 49
804	ι Pegasi	4.2	K	21 18 23.173	+2.7740	+ 74	+19 27 41.37	+15.325	+ 61
805	γ Pavonis	4.2	F 8	21 19 50.781	+5.9924	+ 131	-65 43 45.42	+16.135	+ 788
806	ζ Capricorni	3.8	G p	21 22 6.161	+3.4290	- 1	-22 45 31.15	+15.496	+ 23
807	[ <i>g</i> Cygni]	5.4	K	21 26 29.766	+2.2128	+ 49	+46 11 14.11	+15.818	+ 103
808	β Aquarii	2.9	G	21 27 20.917	+3.1595	+ 11	- 5 55 25.72	+15.756	- 5
809	β Cephei	3.1	B 1	21 27 38.053	+0.7837	+ 20	+70 12 33.59	+15.783	+ 7
810	ν Octantis	3.7	K	21 32 37.989	+6.7752	+ 132	-77 44 47.59	+15.786	- 256
811	74 Cygni	5.1	A 5	21 33 44.453	+2.4031	- 3	+40 3 12.83	+16.112	+ 12
812	[γ Capricorni]	3.6	F p	21 35 39.663	+3.3268	+ 131	-17 1 27.50	+16.183	- 16
813	[13 H. Cephei]	6.1	Oe 5	21 36 28.687	+1.8615	+ 7	+57 7 36.70	+16.244	+ 2
814	[ι Pisc. austr.]	4.4	A	21 40 11.120	+3.5792	+ 18	-33 23 29.25	+16.340	- 89
815	ε Pegasi	2.3	K	21 40 15.402	+2.9464	+ 19	+ 9 30 27.16	+16.433	0
817	[ι Cephei]	4.8	K	21 40 45.308	+0.8877	+ 234	+70 56 34.28	+16.556	+ 98
816	[x Pegasi]	4.1	F 5	21 41 1.281	+2.7155	+ 25	+25 16 36.14	+16.481	+ 10
818	[λ Capricorni]	5.5	A	21 42 13.845	+3.2317	+ 20	-11 44 7.82	+16.528	- 4
819	δ Capricorni	2.8	A 5	21 42 37.644	+3.3137	+ 178	-16 29 27.54	+16.257	- 294
821	π <sup>2</sup> Cygni	4.3	B 3	21 43 50.172	+2.2148	+ 8	+48 56 19.83	+16.606	- 4
820	[o Jndi]	5.6	K 5	21 44 2.464	+5.1168	- 87	-70 0 9.71	+16.599	- 21
822	γ Gruis	3.0	A	21 49 5.342	+3.6396	+ 77	-37 44 30.52	+16.845	- 18
823	16 Pegasi	5.2	B 3	21 49 25.258	+2.7286	+ 4	+25 32 53.43	+16.880	+ 1
824	[ō Jndi]	4.6	F	21 52 28.951	+4.0990	+ 43	-55 22 25.90	+16.993	- 29
826	[20 Pegasi]	5.8	F	21 57 11.472	+2.9220	+ 36	+12 44 9.93	+17.181	- 54
825	[ε Jndi]	4.9	K 5	21 57 15.102	+4.6086	+4811	-57 6 56.02	+14.656	-2581
827	α Aquarii	2.9	G	22 1 40.536	+3.0818	+ 10	- 0 42 32.65	+17.426	- 7
828	ι Aquarii	4.2	B 8	22 2 7.110	+3.2422	+ 24	-14 15 30.03	+17.400	- 51
830	20 Cephei	5.7	K 5	22 2 34.551	+1.8220	+ 22	+62 23 41.97	+17.532	+ 60
829	α Gruis	1.8	B 5	22 3 11.881	+3.7923	+ 119	-47 20 57.26	+17.327	- 171
831	[ι Pegasi]	3.9	F 5	22 3 17.123	+2.7914	+ 219	+24 57 13.69	+17.524	+ 22
832	[μ Pisc. austr.]	4.6	A 2	22 3 43.130	+3.5046	+ 41	-33 22 46.29	+17.479	- 41
833	[27 Pegasi]	5.8	K	22 5 40.860	+2.6568	- 42	+32 46 51.68	+17.538	- 65
834	θ Pegasi	3.6	A	22 6 9.867	+3.0264	+ 184	+ 5 48 13.39	+17.654	+ 31
835	π Pegasi	4.3	F 5	22 6 25.955	+2.6625	- 9	+32 47 6.60	+17.615	- 19
836	ζ Cephei	3.4	K	22 8 4.574	+2.0782	+ 14	+57 48 23.39	+17.708	+ 6
837	24 Cephei	4.8	K	22 8 16.373	+1.1577	+ 54	+71 56 48.93	+17.718	+ 8
838	[λ Pisc. austr.]	5.4	A	22 9 46.914	+3.4053	+ 16	-28 9 50.48	+17.771	- 1
839	[ε Octantis]	5.3	M b	22 11 7.970	+6.8763	+ 137	-80 50 19.99	+17.785	- 40
840	θ Aquarii	4.2	K	22 12 36.815	+3.1671	+ 76	- 8 10 55.76	+17.866	- 19

Nr.	Name	Gr.	Spektrum	AR. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in o°.0001	Dekl. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in o°.0001
841	$\alpha$ Tucanae	2.8	K 2	22 13 <sup>h</sup> 2.022	+4.1327	— 98	—60° 39' 32.49	+17.852	— 49
842	$\gamma$ Aquarii	3.7	A	22 17 31.488	+3.0991	+ 83	— 1 47 27.64	+18.081	+ 7
843	[31 Pegasi]	4.9	B 3p	22 17 34.763	+2.9519	— 1	+11 48 5.85	+18.085	+ 9
844	3 Lacertae	4.5	K	22 20 24.660	+2.3556	— 15	+51 49 40.02	+17.992	—191
845	[v Gruis]	5.6	K	22 23 58.138	+3.5239	+ 24	—39 32 13.44	+18.150	—162
846	[5 <sup>1</sup> Gruis]	4.0	G 5	22 24 29.612	+3.5950	+ 17	—43 54 17.39	+18.322	— 8
847	[6 Cephei]	(4.1)	G	22 26 11.836	+2.2231	+ 17	+58 0 19.23	+18.392	+ 2
848	7 Lacertae	3.8	A	22 27 59.548	+2.4679	+ 147	+49 52 14.84	+18.468	+ 17
849	[v Aquarii]	5.5	F	22 30 19.234	+3.2851	+ 155	—21 7 6.52	+18.386	—144
850	$\eta$ Aquarii	3.9	B 8	22 31 14.760	+3.0833	+ 59	— 0 31 49.13	+18.506	— 55
851	[31 Cephei]	5.2	F	22 33 47.549	+1.4822	+ 382	+73 13 39.55	+18.666	+ 23
852	10 Lacertae	4.9	Oe 5	22 35 40.135	+2.6889	+ 4	+38 38 0.58	+18.697	— 6
853	[30 Cephei]	5.3	A 2	22 35 48.586	+2.1240	+ 1	+63 10 5.89	+18.686	— 22
854	[ $\epsilon$ Pisc.austr.]	4.0	B 8	22 36 14.020	+3.3221	+ 12	—27 27 40.47	+18.724	+ 2
855	$\zeta$ Pegasi	3.3	B 8	22 37 28.290	+2.9915	+ 53	+10 24 47.89	+18.747	— 13
856	$\beta$ Gruis	2.0	M b	22 37 53.741	+3.5923	+ 117	—47 18 12.85	+18.748	— 25
857	$\eta$ Pegasi	2.9	G	22 39 14.990	+2.8098	+ 12	+29 48 8.53	+18.781	— 33
858	[13 Lacertae]	5.4	K	22 40 31.216	+2.6717	— 6	+41 23 56.52	+18.857	+ 5
859	$\lambda$ Pegasi	3.9	K	22 42 40.554	+2.8877	+ 41	+23 8 39.33	+18.905	— 10
860	$\epsilon$ Gruis	3.5	A 2	22 43 43.735	+3.6359	+ 96	—51 44 16.80	+18.872	— 73
861	[ $\tau$ Aquarii]	4.0	K 5	22 45 21.472	+3.1782	— 12	—14 0 54.75	+18.959	— 33
862	[ $\mu$ Pegasi]	3.6	K	22 46 8.410	+2.8936	+ 109	+24 10 43.67	+18.973	— 41
863	$\iota$ Cephei	3.5	K	22 46 49.662	+2.1288	— 114	+65 46 45.78	+18.910	—123
864	$\lambda$ Aquarii	3.8	M a	22 48 26.514	+3.1309	+ 5	— 8 0 20.40	+19.114	+ 38
865	$\rho$ Jndi	6.3	G	22 49 6.769	+4.2113	— 101	—70 30 5.37	+19.156	+ 62
866	$\delta$ Aquarii	3.2	A 2	22 50 24.373	+3.1858	— 33	—16 14 47.75	+19.109	— 19
867	$\alpha$ Pisc. austr.	1.2	A 3	22 53 13.973	+3.3194	+ 247	—30 2 47.48	+19.042	—159
868	[ $\zeta$ Gruis]	4.0	G 5	22 56 9.858	+3.5555	— 80	—53 11 0.62	+19.257	— 16
869	$\circ$ Androm.	3.5	B 3	22 58 14.204	+2.7560	+ 25	+41 53 44.35	+19.309	— 13
870	$\beta$ Pegasi	2.4	M b	22 59 53.617	+2.9057	+ 145	+27 38 54.71	+19.497	+138
871	$\alpha$ Pegasi	2.4	A	23 0 46.465	+2.9868	+ 41	+14 46 28.20	+19.339	— 41
872	$\delta$ Gruis	4.2	F 5	23 2 22.628	+3.3880	— 52	—43 57 10.48	+19.377	— 38
873	$\epsilon^2$ Aquarii	3.7	K	23 5 10.987	+3.2013	+ 32	—21 36 24.90	+19.511	+ 36
874	$\pi$ Cephei	4.5	G 5	23 5 20.925	+1.9013	+ 29	+74 57 17.52	+19.452	— 25
875	Br. 3077	5.8	K	23 9 25.456	+2.8798	+2529	+56 43 35.06	+19.855	+295
876	[Tucanae 25 G.]	5.9	F	23 12 9.668	+3.6264	+ 231	—62 26 15.86	+19.558	— 53
877	$\gamma$ Tucanae	3.9	F 2	23 12 46.098	+3.5161	— 59	—58 40 28.40	+19.703	+ 82
878	[ $\gamma$ Piscium]	3.7	K	23 13 1.060	+3.1095	+ 503	+ 2 50 41.56	+19.643	+ 18
879	$\gamma$ Sculptoris	4.4	K	23 14 30.446	+3.2447	+ 10	—32 58 5.12	+19.584	— 68
880	$\tau$ Pegasi	4.5	A 5	23 16 40.499	+2.9666	+ 21	+23 18 7.77	+19.675	— 13

Nr.	Name	Gr.	Spektrum	AR. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in o".0001	Dekl. 1920.0	Jährl. Veränderung	Jährl. Eigenbew. in o".001
882	4 Cassiopeiae	5.5	M a p	23 <sup>h</sup> 21 <sup>m</sup> 16.612	+2.6546	+ 17	+61° 50' 36.24	+19.750	- 10
881	[ $\nu$ Pegasi]	4.4	G	23 21 23.049	+2.9915	+138	+22 57 48.42	+19.797	+ 35
883	[ $\nu$ Gruis]	5.7	F	23 22 8.219	+3.3657	- 4	-53 9 52.90	+19.891	+119
884	$\alpha$ Piscium	5.1	A 2	23 22 49.877	+3.0753	+ 56	+ 0 49 2.80	+19.689	- 93
885	70 Pegasi	4.7	K	23 25 6.434	+3.0323	+ 38	+12 19 8.27	+19.841	+ 28
886	[ $\beta$ Sculptoris]	4.4	B 9	23 28 41.092	+3.2228	+ 65	-38 15 39.39	+19.873	+ 14
887	[72 Pegasi]	5.2	K	23 29 58.855	+2.9723	+ 40	+30 53 1.10	+19.861	- 12
888	[Aquarii 248 G.]	6.7	A	23 31 24.496	+3.0953	- 5	- 7 54 26.35	+19.913	+ 23
889	[Phoenixis II G.]	4.6	A 2	23 33 32.834	+3.2364	+ 47	-45 56 7.58	+19.875	- 37
890	[ $\lambda$ Androm.]	3.8	K	23 33 38.583	+2.9293	+156	+46 1 28.35	+19.490	-423
891	$\iota$ Androm.	4.1	B 8	23 34 12.468	+2.9362	+ 27	+42 49 29.95	+19.914	- 5
892	$\iota$ Piscium	4.1	F 5	23 35 50.075	+3.0846	+247	+ 5 11 32.93	+19.494	-440
893	$\gamma$ Cephei	3.3	K	23 36 3.106	+2.4416	-183	+77 11 8.97	+20.093	+157
894	$\omega^2$ Aquarii	4.5	A	23 38 34.495	+3.1126	+ 65	-14 59 14.47	+19.895	- 63
895	41 H. Cephei	5.2	A	23 44 4.489	+2.8525	+ 23	+67 21 44.14	+19.998	+ 1
896	Lac. $\delta$ Sculpt.	4.4	A	23 44 45.664	+3.1282	+ 71	-28 34 22.09	+19.896	-105
897	[Aquarii 268 G.]	6.3	A	23 46 7.053	+3.0961	+ 86	-10 25 14.66	+20.095	+ 86
898	$\varphi$ Pegasi	5.4	M a	23 48 24.934	+3.0491	- 8	+18 40 33.19	+19.980	- 39
899	[ $\rho$ Cassiopeiae]	4.8	F 8 p	23 50 22.704	+2.9854	- 7	+57 3 15.44	+20.032	+ 4
900	[27 Piscium]	5.1	F	23 54 34.637	+3.0712	- 37	- 3 59 59.45	+19.971	- 68
901	[ $\pi$ Phoenixis]	5.2	K	23 54 47.265	+3.1162	+ 30	-53 11 34.53	+20.086	+ 46
902	$\omega$ Piscium	3.9	F 5	23 55 12.121	+3.0795	+100	+ 6 25 13.39	+19.932	-109
903	$\varepsilon$ Tucanae	4.5	B 9	23 55 46.082	+3.1346	+ 64	-66 1 20.17	+20.009	- 33
904	[ $\theta$ Octantis]	5.0	K	23 57 30.065	+3.1165	-220	-77 30 26.59	+19.873	-171
905	[2 Ceti]	4.5	A	23 59 38.553	+3.0745	+ 12	-17 46 52.76	+20.042	- 4

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

$$1920.0: \Delta\alpha = -0.230 \quad \Delta\delta = -1.44$$

$$1921.0: \quad = -0.228 \quad = -1.56$$

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):

$$1920.0: \Delta\alpha = -0.046 \quad \Delta\delta = +0.27$$

$$1921.0: \quad = -0.038 \quad = +0.38$$

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

$$\text{heller Stern } 1920.0: \Delta\alpha = +0.605 \quad \Delta\delta = +5.10$$

$$1921.0: \quad = +0.589 \quad = +4.79$$

$$\text{Begleiter } 1920.0: \Delta\alpha = -0.712 \quad \Delta\delta = -6.01$$

$$1921.0: \quad = -0.693 \quad = -5.65$$



Nr.	N a m e	Gr.	Spektrum	AR. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".001	Dekl. 1920.0	Jährl. Verände- rung	Jährl. Eigen- bew. in 0".001
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## Nördliche Polsterne

<i>Na</i>	43 H. Cephei	4.3	K	0 <sup>h</sup> 57 <sup>m</sup> 32.38	+ 7.699	+ 75	+85° 49' 43.41	+19.416	- 1
<i>Nb</i>	α Ursae min.	2.0	F 8	1 31 41.34	+29.782	+146	+88 52 38.91	+18.463	+ 2
<i>Nc</i>	Gr. 750	6.8	F	4 10 55.56	+17.673	+ 16	+85 20 37.50	+ 9.216	+ 32
<i>Nd</i>	51 H. Cephei	5.2	M a	7 3 31.84	+29.090	- 51	+87 10 38.08	- 5.521	- 36
<i>Ne</i>	1 H. Dräcon.	4.3	K	9 25 48.01	+ 8.763	- 6	+81 40 54.48	-15.697	- 20
<i>Nf</i>	[30 H. Camel.]	5.2	F 5	10 21 27.38	+ 7.541	- 47	+82 58 0.18	-18.189	+ 31
<i>Ng</i>	ε Ursae min.	4.2	G 5	16 54 6.80	- 6.240	+ 7	+82 10 16.00	- 5.678	+ 6
<i>Nh</i>	δ Ursae min.	4.3	A	17 58 2.82	-19.498	+ 16	+86 36 51.19	- 0.114	+ 57
<i>Ni</i>	λ Ursae min.	6.8	M a	18 59 2.92	-72.696	- 96	+89 1 18.09	+ 5.115	+ 8
<i>Nk</i>	76 Draconis	6.0	A	20 48 28.06	- 4.181	+ 16	+82 14 10.40	+13.470	+ 27

## Südliche Polsterne

<i>Sa</i>	Octantis 4 G.	6	K	1 <sup>h</sup> 41 <sup>m</sup> 51.49	- 3.714	+ 18	-85° 10' 26.87	+18.132	+ 34
<i>Sb</i>	[ξ Mensae]	6.0	K	5 7 55.58	- 6.928	- 4	-82 34 46.10	+ 4.529	+ 14
<i>Sc</i>	ζ Octantis	6-5	F 5	9 8 34.42	- 8.183	- 93	-85 20 41.25	-14.646	+ 48
<i>Sd</i>	ι Octantis	6-5	K	12 46 25.33	+ 6.006	+ 42	-84 41 21.28	-19.610	+ 25
<i>Se</i>	Octantis 20 G.	7	M a	14 47 29.14	+26.392	-182	-87 49 35.34	-14.994	- 67
<i>Sf</i>	Octantis 26 G.	6-7	A 2	16 30 45.99	+21.803	+ 5	-86 13 21.03	- 7.611	- 2
<i>Sg</i>	χ Octantis	6	K 5	18 7 59.37	+35.720	- 91	-87 39 50.36	+ 0.571	-128
<i>Sh</i>	σ Octantis	6	A 8	19 32 24.85	+93.261	+112	-89 13 5.54	+ 7.865	0
<i>Si</i>	β Octantis	4.1	F	22 37 58.15	+ 6.296	- 26	-81 48 6.06	+18.777	+ 3
<i>Sk</i>	τ Octantis	6	K	23 16 39.26	+10.018	+ 21	-87 55 19.26	+19.703	+ 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.
1920	$0^h 4^m$	$+28^\circ 38'$	$0^h 4^m$	$+58^\circ 42'$	$0^h 5^m$	$-46^\circ 10'$	$0^h 9^m$	$+14^\circ 44'$
Jan. 0.2	15.814 <sup>142</sup>	69.71 <sup>94</sup>	55.157 <sup>311</sup>	52.85 <sup>75</sup>	21.421 <sup>208</sup>	90.30 <sup>29</sup>	7.664 <sup>121</sup>	28.90 <sup>86</sup>
10.2	15.672 <sup>137</sup>	68.77 <sup>121</sup>	54.846 <sup>302</sup>	52.10 <sup>127</sup>	21.213 <sup>193</sup>	90.01 <sup>74</sup>	7.543 <sup>116</sup>	28.04 <sup>98</sup>
20.2	15.535 <sup>126</sup>	67.56 <sup>142</sup>	54.544 <sup>277</sup>	50.83 <sup>173</sup>	21.020 <sup>172</sup>	89.27 <sup>119</sup>	7.427 <sup>107</sup>	27.06 <sup>106</sup>
30.1	15.409 <sup>107</sup>	66.14 <sup>157</sup>	54.267 <sup>242</sup>	49.10 <sup>214</sup>	20.848 <sup>145</sup>	88.08 <sup>159</sup>	7.320 <sup>92</sup>	26.00 <sup>109</sup>
Feb. 9.1	15.302 <sup>83</sup>	64.57 <sup>167</sup>	54.025 <sup>193</sup>	46.96 <sup>244</sup>	20.703 <sup>113</sup>	86.49 <sup>196</sup>	7.228 <sup>72</sup>	24.91 <sup>107</sup>
19.1	15.219 <sup>53</sup>	62.90 <sup>167</sup>	53.832 <sup>135</sup>	44.52 <sup>266</sup>	20.590 <sup>76</sup>	84.53 <sup>229</sup>	7.156 <sup>45</sup>	23.84 <sup>99</sup>
29.1	15.166 <sup>16</sup>	61.23 <sup>162</sup>	53.697 <sup>66</sup>	41.86 <sup>276</sup>	20.514 <sup>34</sup>	82.24 <sup>256</sup>	7.111 <sup>15</sup>	22.85 <sup>87</sup>
März 10.0	15.150 <sup>25</sup>	59.61 <sup>147</sup>	53.631 <sup>9</sup>	39.10 <sup>275</sup>	20.480 <sup>12</sup>	79.68 <sup>278</sup>	7.096 <sup>22</sup>	21.98 <sup>69</sup>
20.0	15.175 <sup>69</sup>	58.14 <sup>126</sup>	53.640 <sup>87</sup>	36.35 <sup>262</sup>	20.492 <sup>61</sup>	76.90 <sup>294</sup>	7.118 <sup>61</sup>	21.29 <sup>46</sup>
30.0	15.244 <sup>117</sup>	56.88 <sup>99</sup>	53.727 <sup>167</sup>	33.73 <sup>239</sup>	20.553 <sup>112</sup>	73.96 <sup>304</sup>	7.179 <sup>103</sup>	20.83 <sup>19</sup>
Apr. 9.0	15.361 <sup>162</sup>	55.89 <sup>65</sup>	53.894 <sup>244</sup>	31.34 <sup>206</sup>	20.665 <sup>164</sup>	70.92 <sup>309</sup>	7.282 <sup>144</sup>	20.64 <sup>11</sup>
18.9	15.523 <sup>207</sup>	55.24 <sup>30</sup>	54.138 <sup>315</sup>	29.28 <sup>167</sup>	20.829 <sup>214</sup>	67.83 <sup>306</sup>	7.426 <sup>186</sup>	20.75 <sup>43</sup>
28.9	15.730 <sup>246</sup>	54.94 <sup>10</sup>	54.453 <sup>378</sup>	27.61 <sup>120</sup>	21.043 <sup>262</sup>	64.77 <sup>297</sup>	7.612 <sup>224</sup>	21.18 <sup>73</sup>
Mai 8.9	15.976 <sup>282</sup>	55.04 <sup>49</sup>	54.831 <sup>430</sup>	26.41 <sup>69</sup>	21.305 <sup>305</sup>	61.80 <sup>282</sup>	7.836 <sup>256</sup>	21.91 <sup>105</sup>
18.8	16.258 <sup>309</sup>	55.53 <sup>87</sup>	55.261 <sup>471</sup>	25.72 <sup>18</sup>	21.610 <sup>341</sup>	58.98 <sup>259</sup>	8.092 <sup>283</sup>	22.96 <sup>133</sup>
28.8	16.567 <sup>328</sup>	56.40 <sup>124</sup>	55.732 <sup>497</sup>	25.54 <sup>36</sup>	21.951 <sup>369</sup>	56.39 <sup>231</sup>	8.375 <sup>302</sup>	24.29 <sup>158</sup>
Juni 7.8	16.895 <sup>338</sup>	57.64 <sup>156</sup>	56.229 <sup>511</sup>	25.90 <sup>88</sup>	22.320 <sup>388</sup>	54.08 <sup>197</sup>	8.677 <sup>313</sup>	25.87 <sup>179</sup>
17.8	17.233 <sup>340</sup>	59.20 <sup>185</sup>	56.740 <sup>509</sup>	26.78 <sup>136</sup>	22.708 <sup>396</sup>	52.11 <sup>158</sup>	8.990 <sup>317</sup>	27.66 <sup>195</sup>
27.7	17.573 <sup>333</sup>	61.05 <sup>209</sup>	57.249 <sup>495</sup>	28.14 <sup>183</sup>	23.104 <sup>394</sup>	50.53 <sup>114</sup>	9.307 <sup>311</sup>	29.61 <sup>206</sup>
Juli 7.7	17.906 <sup>316</sup>	63.14 <sup>226</sup>	57.744 <sup>469</sup>	29.97 <sup>223</sup>	23.498 <sup>381</sup>	49.39 <sup>68</sup>	9.618 <sup>298</sup>	31.67 <sup>211</sup>
17.7	18.222 <sup>293</sup>	65.40 <sup>239</sup>	58.213 <sup>432</sup>	32.20 <sup>258</sup>	23.879 <sup>358</sup>	48.71 <sup>20</sup>	9.916 <sup>278</sup>	33.78 <sup>211</sup>
27.7	18.515 <sup>262</sup>	67.79 <sup>246</sup>	58.645 <sup>385</sup>	34.78 <sup>287</sup>	24.237 <sup>325</sup>	48.51 <sup>28</sup>	10.194 <sup>250</sup>	35.89 <sup>207</sup>
Aug. 6.6	18.777 <sup>228</sup>	70.25 <sup>247</sup>	59.030 <sup>332</sup>	37.65 <sup>310</sup>	24.562 <sup>283</sup>	48.79 <sup>74</sup>	10.444 <sup>219</sup>	37.96 <sup>197</sup>
16.6	19.005 <sup>189</sup>	72.72 <sup>243</sup>	59.362 <sup>274</sup>	40.75 <sup>325</sup>	24.845 <sup>235</sup>	49.53 <sup>118</sup>	10.663 <sup>183</sup>	39.93 <sup>183</sup>
26.6	19.194 <sup>148</sup>	75.15 <sup>233</sup>	59.636 <sup>210</sup>	44.00 <sup>335</sup>	25.080 <sup>181</sup>	50.71 <sup>158</sup>	10.846 <sup>145</sup>	41.76 <sup>167</sup>
Sept. 5.5	19.342 <sup>107</sup>	77.48 <sup>221</sup>	59.846 <sup>147</sup>	47.35 <sup>336</sup>	25.261 <sup>125</sup>	52.29 <sup>190</sup>	10.991 <sup>107</sup>	43.43 <sup>147</sup>
15.5	19.449 <sup>66</sup>	79.69 <sup>203</sup>	59.993 <sup>82</sup>	50.71 <sup>332</sup>	25.386 <sup>67</sup>	54.19 <sup>215</sup>	11.098 <sup>69</sup>	44.90 <sup>126</sup>
25.5	19.535 <sup>28</sup>	81.72 <sup>183</sup>	60.075 <sup>20</sup>	54.03 <sup>320</sup>	25.453 <sup>10</sup>	56.34 <sup>231</sup>	11.167 <sup>33</sup>	46.16 <sup>103</sup>
Okt. 5.5	19.543 <sup>8</sup>	83.55 <sup>160</sup>	60.095 <sup>39</sup>	57.23 <sup>302</sup>	25.463 <sup>42</sup>	58.65 <sup>239</sup>	11.200 <sup>0</sup>	47.19 <sup>81</sup>
15.4	19.535 <sup>40</sup>	85.15 <sup>134</sup>	60.056 <sup>96</sup>	60.25 <sup>277</sup>	25.421 <sup>90</sup>	61.04 <sup>235</sup>	11.200 <sup>29</sup>	48.00 <sup>58</sup>
25.4	19.495 <sup>67</sup>	86.49 <sup>108</sup>	59.960 <sup>147</sup>	63.02 <sup>246</sup>	25.331 <sup>131</sup>	63.39 <sup>223</sup>	11.171 <sup>54</sup>	48.58 <sup>35</sup>
Nov. 4.4	19.428 <sup>91</sup>	87.57 <sup>77</sup>	59.813 <sup>193</sup>	65.48 <sup>208</sup>	25.200 <sup>165</sup>	65.62 <sup>201</sup>	11.117 <sup>76</sup>	48.93 <sup>14</sup>
14.4	19.337 <sup>110</sup>	88.34 <sup>47</sup>	59.620 <sup>234</sup>	67.56 <sup>165</sup>	25.035 <sup>191</sup>	67.63 <sup>172</sup>	11.041 <sup>93</sup>	49.07 <sup>7</sup>
24.3	19.227 <sup>126</sup>	88.81 <sup>16</sup>	59.386 <sup>268</sup>	69.21 <sup>118</sup>	24.844 <sup>208</sup>	69.35 <sup>135</sup>	10.948 <sup>106</sup>	49.00 <sup>28</sup>
Dez. 4.3	19.101 <sup>137</sup>	88.97 <sup>17</sup>	59.118 <sup>293</sup>	70.39 <sup>66</sup>	24.636 <sup>218</sup>	70.70 <sup>94</sup>	10.842 <sup>116</sup>	48.72 <sup>46</sup>
14.3	18.964 <sup>145</sup>	88.80 <sup>49</sup>	58.825 <sup>311</sup>	71.05 <sup>12</sup>	24.418 <sup>220</sup>	71.64 <sup>49</sup>	10.726 <sup>122</sup>	48.26 <sup>64</sup>
24.2	18.819 <sup>146</sup>	88.31 <sup>79</sup>	58.514 <sup>317</sup>	71.17 <sup>43</sup>	24.198 <sup>215</sup>	72.13 <sup>2</sup>	10.604 <sup>124</sup>	47.62 <sup>80</sup>
34.2	18.673	87.52	58.197	70.74	23.983	72.15	10.480	46.82
Mittl. Ort sec $\delta$ , tg $\delta$	14.918 1.139	55.61 +0.546	53.929 1.925	30.69 +1.645	21.229 1.445	80.26 -1.042	6.835 1.034	19.59 +0.263

Mittlere Zeit Greenw.	9) $\iota$ Ceti		10) $\zeta$ Tucanae		11) $\beta$ Hydri		12) $\alpha$ Phoenicis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$0^h 15^m$	$-9^\circ 15'$	$0^h 15^m$	$-65^\circ 20'$	$0^h 21^m$	$-77^\circ 41'$	$0^h 22^m$	$-42^\circ 43'$
Jan. 0.2	21.802 <sub>118</sub>	61.92 <sub>60</sub>	54.33 <sub>41</sub>	55.94 <sub>73</sub>	32.74 <sub>92</sub>	92.35 <sub>95</sub>	20.285 <sub>198</sub>	95.76 <sub>2</sub>
10.2	21.684 <sub>113</sub>	62.52 <sub>45</sub>	53.92 <sub>39</sub>	55.21 <sub>128</sub>	31.82 <sub>87</sub>	91.40 <sub>154</sub>	20.087 <sub>187</sub>	95.74 <sub>47</sub>
20.2	21.571 <sub>104</sub>	62.97 <sub>29</sub>	53.53 <sub>35</sub>	53.93 <sub>180</sub>	30.95 <sub>79</sub>	89.86 <sub>209</sub>	19.900 <sub>173</sub>	95.27 <sub>91</sub>
30.2	21.467 <sub>90</sub>	63.26 <sub>10</sub>	53.18 <sub>31</sub>	52.13 <sub>228</sub>	30.16 <sub>68</sub>	87.77 <sub>256</sub>	19.727 <sub>151</sub>	94.36 <sub>132</sub>
Feb. 9.1	21.377 <sub>72</sub>	63.36 <sub>9</sub>	52.87 <sub>25</sub>	49.85 <sub>268</sub>	29.48 <sub>57</sub>	85.21 <sub>297</sub>	19.576 <sub>123</sub>	93.04 <sub>170</sub>
19.1	21.305 <sub>47</sub>	63.27 <sub>31</sub>	52.62 <sub>18</sub>	47.17 <sub>303</sub>	28.91 <sub>44</sub>	82.24 <sub>331</sub>	19.453 <sub>91</sub>	91.34 <sub>203</sub>
29.1	21.258 <sub>19</sub>	62.96 <sub>53</sub>	52.44 <sub>11</sub>	44.14 <sub>330</sub>	28.47 <sub>30</sub>	78.93 <sub>355</sub>	19.362 <sub>54</sub>	89.31 <sub>234</sub>
März 10.0	21.239 <sub>14</sub>	62.43 <sub>77</sub>	52.33 <sub>4</sub>	40.84 <sub>348</sub>	28.17 <sub>14</sub>	75.38 <sub>371</sub>	19.308 <sub>10</sub>	86.97 <sub>259</sub>
20.0	21.253 <sub>52</sub>	61.66 <sub>100</sub>	52.29 <sub>4</sub>	37.36 <sub>361</sub>	28.03 <sub>1</sub>	71.67 <sub>380</sub>	19.298 <sub>36</sub>	84.38 <sub>278</sub>
30.0	21.305 <sub>90</sub>	60.66 <sub>123</sub>	52.33 <sub>13</sub>	33.75 <sub>364</sub>	28.04 <sub>16</sub>	67.87 <sub>379</sub>	19.334 <sub>85</sub>	81.60 <sub>292</sub>
Apr. 9.0	21.395 <sub>131</sub>	59.43 <sub>146</sub>	52.46 <sub>21</sub>	30.11 <sub>361</sub>	28.20 <sub>32</sub>	64.08 <sub>371</sub>	19.419 <sub>135</sub>	78.68 <sub>301</sub>
18.9	21.526 <sub>171</sub>	57.97 <sub>166</sub>	52.67 <sub>28</sub>	26.50 <sub>349</sub>	28.52 <sub>47</sub>	60.37 <sub>354</sub>	19.554 <sub>186</sub>	75.67 <sub>302</sub>
28.9	21.697 <sub>208</sub>	56.31 <sub>183</sub>	52.95 <sub>37</sub>	23.01 <sub>330</sub>	28.99 <sub>61</sub>	56.83 <sub>331</sub>	19.740 <sub>232</sub>	72.65 <sub>298</sub>
Mai 8.9	21.905 <sub>241</sub>	54.48 <sub>197</sub>	53.32 <sub>43</sub>	19.71 <sub>304</sub>	29.60 <sub>74</sub>	53.52 <sub>299</sub>	19.972 <sub>276</sub>	69.67 <sub>287</sub>
18.9	22.146 <sub>269</sub>	52.51 <sub>205</sub>	53.75 <sub>49</sub>	16.67 <sub>270</sub>	30.34 <sub>86</sub>	50.53 <sub>261</sub>	20.248 <sub>314</sub>	66.80 <sub>269</sub>
28.8	22.415 <sub>290</sub>	50.46 <sub>209</sub>	54.24 <sub>54</sub>	13.97 <sub>231</sub>	31.20 <sub>94</sub>	47.92 <sub>217</sub>	20.562 <sub>343</sub>	64.11 <sub>244</sub>
Juni 7.8	22.705 <sub>304</sub>	48.37 <sub>207</sub>	54.78 <sub>57</sub>	11.66 <sub>186</sub>	32.14 <sub>102</sub>	45.75 <sub>168</sub>	20.905 <sub>364</sub>	61.67 <sub>213</sub>
17.8	23.009 <sub>310</sub>	46.30 <sub>201</sub>	55.35 <sub>59</sub>	9.80 <sub>137</sub>	33.16 <sub>106</sub>	44.07 <sub>115</sub>	21.269 <sub>376</sub>	59.54 <sub>178</sub>
27.7	23.319 <sub>307</sub>	44.29 <sub>188</sub>	55.94 <sub>59</sub>	8.43 <sub>83</sub>	34.22 <sub>107</sub>	42.92 <sub>59</sub>	21.645 <sub>378</sub>	57.76 <sub>137</sub>
Juli 7.7	23.626 <sub>297</sub>	42.41 <sub>170</sub>	56.53 <sub>58</sub>	7.60 <sub>29</sub>	35.29 <sub>106</sub>	42.33 <sub>1</sub>	22.023 <sub>369</sub>	56.39 <sub>93</sub>
17.7	23.923 <sub>278</sub>	40.71 <sub>149</sub>	57.11 <sub>56</sub>	7.31 <sub>27</sub>	36.35 <sub>101</sub>	42.32 <sub>57</sub>	22.392 <sub>350</sub>	55.46 <sub>46</sub>
27.7	24.201 <sub>254</sub>	39.22 <sub>124</sub>	57.67 <sub>51</sub>	7.58 <sub>82</sub>	37.36 <sub>93</sub>	42.89 <sub>113</sub>	22.742 <sub>322</sub>	55.00 <sub>2</sub>
Aug. 6.6	24.455 <sub>223</sub>	37.98 <sub>97</sub>	58.18 <sub>45</sub>	8.40 <sub>133</sub>	38.29 <sub>83</sub>	44.02 <sub>164</sub>	23.064 <sub>285</sub>	55.02 <sub>49</sub>
16.6	24.678 <sub>188</sub>	37.01 <sub>66</sub>	58.63 <sub>37</sub>	9.73 <sub>181</sub>	39.12 <sub>70</sub>	45.66 <sub>212</sub>	23.349 <sub>242</sub>	55.51 <sub>93</sub>
26.6	24.866 <sub>150</sub>	36.35 <sub>38</sub>	59.00 <sub>29</sub>	11.54 <sub>221</sub>	39.82 <sub>55</sub>	47.78 <sub>251</sub>	23.591 <sub>193</sub>	56.44 <sub>135</sub>
Sept. 5.6	25.016 <sub>112</sub>	35.97 <sub>8</sub>	59.29 <sub>21</sub>	13.75 <sub>253</sub>	40.37 <sub>37</sub>	50.29 <sub>283</sub>	23.784 <sub>141</sub>	57.79 <sub>170</sub>
15.5	25.128 <sub>73</sub>	35.89 <sub>18</sub>	59.50 <sub>10</sub>	16.28 <sub>277</sub>	40.74 <sub>19</sub>	53.12 <sub>303</sub>	23.925 <sub>88</sub>	59.49 <sub>200</sub>
25.5	25.201 <sub>37</sub>	36.07 <sub>42</sub>	59.60 <sub>1</sub>	19.05 <sub>290</sub>	40.93 <sub>0</sub>	56.15 <sub>312</sub>	24.013 <sub>35</sub>	61.49 <sub>220</sub>
Okt. 5.5	25.238 <sub>2</sub>	36.49 <sub>62</sub>	59.61 <sub>8</sub>	21.95 <sub>291</sub>	40.93 <sub>19</sub>	59.27 <sub>310</sub>	24.048 <sub>14</sub>	63.69 <sub>231</sub>
15.4	25.240 <sub>27</sub>	37.11 <sub>78</sub>	59.53 <sub>16</sub>	24.86 <sub>280</sub>	40.74 <sub>36</sub>	62.37 <sub>295</sub>	24.034 <sub>60</sub>	66.00 <sub>234</sub>
25.4	25.213 <sub>54</sub>	37.89 <sub>89</sub>	59.37 <sub>25</sub>	27.66 <sub>259</sub>	40.38 <sub>53</sub>	65.32 <sub>269</sub>	23.974 <sub>101</sub>	68.34 <sub>226</sub>
Nov. 4.4	25.159 <sub>75</sub>	38.78 <sub>95</sub>	59.12 <sub>31</sub>	30.25 <sub>226</sub>	39.85 <sub>67</sub>	68.01 <sub>231</sub>	23.873 <sub>135</sub>	70.60 <sub>209</sub>
14.4	25.084 <sub>93</sub>	39.73 <sub>97</sub>	58.81 <sub>37</sub>	32.51 <sub>185</sub>	39.18 <sub>79</sub>	70.32 <sub>184</sub>	23.738 <sub>162</sub>	72.69 <sub>184</sub>
24.3	24.991 <sub>106</sub>	40.70 <sub>95</sub>	58.44 <sub>40</sub>	34.36 <sub>136</sub>	38.39 <sub>87</sub>	72.16 <sub>130</sub>	23.576 <sub>182</sub>	74.53 <sub>151</sub>
Dez. 4.3	24.885 <sub>114</sub>	41.65 <sub>89</sub>	58.04 <sub>42</sub>	35.72 <sub>82</sub>	37.52 <sub>92</sub>	73.46 <sub>70</sub>	23.394 <sub>195</sub>	76.04 <sub>114</sub>
14.3	24.771 <sub>120</sub>	42.54 <sub>81</sub>	57.62 <sub>43</sub>	36.54 <sub>24</sub>	36.60 <sub>95</sub>	74.16 <sub>8</sub>	23.199 <sub>201</sub>	77.18 <sub>72</sub>
24.3	24.651 <sub>121</sub>	43.35 <sub>69</sub>	57.19 <sub>43</sub>	36.78 <sub>35</sub>	35.65 <sub>94</sub>	74.24 <sub>55</sub>	22.998 <sub>202</sub>	77.90 <sub>27</sub>
34.2	24.530	44.04	56.76	36.43	34.71	73.69	22.796	78.17
Mittl. Ort sec $\delta$ , tg $\delta$	21.115 1.013	62.58 -0.163	54.66 2.397	42.07 -2.179	34.23 4.696	77.16 -4.588	19.918 1.362	85.98 -0.924

Mittlere Zeit Greenw.	13) $\iota$ Ceti		17) $\zeta$ Cassiopeiae		18) $\pi$ Andromedae		20) $\delta$ Andromedae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$0^h 25^m$	$-4^\circ 23'$	$0^h 32^m$	$+53^\circ 27'$	$0^h 32^m$	$+33^\circ 16'$	$0^h 35^m$	$+30^\circ 25'$
Jan. 0.2	58.154 <sup>118</sup>	55.27 68	31.769 <sup>262</sup>	44.82 50	37.360 <sup>158</sup>	59.68 73	3.872 <sup>150</sup>	38.27 73
10.2	58.036 <sup>115</sup>	55.95 58	31.507 <sup>260</sup>	44.32 98	37.202 <sup>158</sup>	58.95 103	3.722 <sup>150</sup>	37.54 101
20.2	57.921 <sup>108</sup>	56.53 46	31.247 <sup>250</sup>	43.34 143	37.044 <sup>152</sup>	57.92 130	3.572 <sup>145</sup>	36.53 124
30.2	57.813 <sup>96</sup>	56.99 32	30.997 <sup>227</sup>	41.91 182	36.892 <sup>137</sup>	56.62 151	3.427 <sup>132</sup>	35.29 144
Feb. 9.1	57.717 <sup>79</sup>	57.31 15	30.770 <sup>193</sup>	40.09 214	36.755 <sup>117</sup>	55.11 167	3.295 <sup>113</sup>	33.85 157
19.1	57.638 <sup>56</sup>	57.46 3	30.577 <sup>148</sup>	37.95 237	36.638 <sup>87</sup>	53.44 175	3.182 <sup>85</sup>	32.28 163
29.1	57.582 <sup>29</sup>	57.43 24	30.429 <sup>94</sup>	35.58 250	36.551 <sup>52</sup>	51.69 176	3.097 <sup>50</sup>	30.65 162
März 10.1	57.553 <sup>5</sup>	57.19 46	30.335 <sup>31</sup>	33.08 252	36.499 <sup>9</sup>	49.93 167	3.047 <sup>10</sup>	29.03 153
20.0	57.558 <sup>41</sup>	56.73 70	30.304 <sup>37</sup>	30.56 244	36.490 <sup>38</sup>	48.26 152	3.037 <sup>36</sup>	27.50 137
30.0	57.599 <sup>80</sup>	56.03 95	30.341 <sup>107</sup>	28.12 226	36.528 <sup>88</sup>	46.74 129	3.073 <sup>83</sup>	26.13 114
Apr. 9.0	57.679 <sup>121</sup>	55.08 118	30.448 <sup>178</sup>	25.86 198	36.616 <sup>138</sup>	45.45 99	3.156 <sup>133</sup>	24.99 85
18.9	57.800 <sup>162</sup>	53.90 141	30.626 <sup>245</sup>	23.88 163	36.754 <sup>188</sup>	44.46 66	3.289 <sup>181</sup>	24.14 52
28.9	57.962 <sup>200</sup>	52.49 161	30.871 <sup>306</sup>	22.25 122	36.942 <sup>233</sup>	43.80 28	3.470 <sup>225</sup>	23.62 16
Mai 8.9	58.162 <sup>234</sup>	50.88 179	31.177 <sup>358</sup>	21.03 76	37.175 <sup>273</sup>	43.52 11	3.695 <sup>265</sup>	23.46 23
18.9	58.396 <sup>263</sup>	49.09 191	31.535 <sup>402</sup>	20.27 28	37.448 <sup>306</sup>	43.63 50	3.960 <sup>297</sup>	23.69 60
28.8	58.659 <sup>286</sup>	47.18 200	31.937 <sup>433</sup>	19.99 21	37.754 <sup>331</sup>	44.13 89	4.257 <sup>323</sup>	24.29 96
Juni 7.8	58.945 <sup>300</sup>	45.18 204	32.370 <sup>453</sup>	20.20 70	38.085 <sup>348</sup>	45.02 125	4.580 <sup>339</sup>	25.25 131
17.8	59.245 <sup>308</sup>	43.14 201	32.823 <sup>460</sup>	20.90 116	38.433 <sup>354</sup>	46.27 158	4.919 <sup>346</sup>	26.56 160
27.8	59.553 <sup>306</sup>	41.13 194	33.283 <sup>455</sup>	22.06 160	38.787 <sup>351</sup>	47.85 186	5.265 <sup>343</sup>	28.16 187
Juli 7.7	59.859 <sup>297</sup>	39.19 181	33.738 <sup>439</sup>	23.66 198	39.138 <sup>339</sup>	49.71 209	5.608 <sup>333</sup>	30.03 208
17.7	60.156 <sup>281</sup>	37.38 165	34.177 <sup>413</sup>	25.64 232	39.477 <sup>320</sup>	51.80 228	5.941 <sup>314</sup>	32.11 223
27.7	60.437 <sup>257</sup>	35.73 143	34.590 <sup>378</sup>	27.96 261	39.797 <sup>293</sup>	54.08 240	6.255 <sup>289</sup>	34.34 233
Aug. 6.6	60.694 <sup>228</sup>	34.30 119	34.968 <sup>335</sup>	30.57 284	40.090 <sup>260</sup>	56.48 246	6.544 <sup>257</sup>	36.67 238
16.6	60.922 <sup>195</sup>	33.11 92	35.303 <sup>288</sup>	33.41 299	40.350 <sup>225</sup>	58.94 249	6.801 <sup>222</sup>	39.05 238
26.6	61.117 <sup>158</sup>	32.19 65	35.591 <sup>235</sup>	36.40 309	40.575 <sup>184</sup>	61.43 245	7.023 <sup>184</sup>	41.43 232
Sept. 5.6	61.275 <sup>122</sup>	31.54 37	35.826 <sup>181</sup>	39.49 313	40.759 <sup>144</sup>	63.88 236	7.207 <sup>144</sup>	43.75 223
15.5	61.397 <sup>84</sup>	31.17 11	36.007 <sup>127</sup>	42.62 310	40.903 <sup>103</sup>	66.24 225	7.351 <sup>104</sup>	45.98 209
25.5	61.481 <sup>48</sup>	31.06 13	36.134 <sup>72</sup>	45.72 301	41.006 <sup>63</sup>	68.49 207	7.455 <sup>65</sup>	48.07 192
Okt. 5.5	61.529 <sup>15</sup>	31.19 35	36.206 <sup>19</sup>	48.73 286	41.069 <sup>25</sup>	70.56 188	7.520 <sup>29</sup>	49.99 172
15.5	61.544 <sup>15</sup>	31.54 53	36.225 <sup>30</sup>	51.59 265	41.094 <sup>9</sup>	72.44 165	7.549 <sup>5</sup>	51.71 149
25.4	61.529 <sup>42</sup>	32.07 66	36.195 <sup>77</sup>	54.24 239	41.085 <sup>41</sup>	74.09 139	7.544 <sup>35</sup>	53.20 125
Nov. 4.4	61.487 <sup>65</sup>	32.73 76	36.118 <sup>121</sup>	56.63 206	41.044 <sup>70</sup>	75.48 111	7.509 <sup>64</sup>	54.45 97
14.4	61.422 <sup>82</sup>	33.49 83	35.997 <sup>161</sup>	58.69 168	40.974 <sup>95</sup>	76.59 81	7.445 <sup>88</sup>	55.42 68
24.3	61.340 <sup>97</sup>	34.32 85	35.836 <sup>195</sup>	60.37 126	40.879 <sup>117</sup>	77.40 48	7.357 <sup>109</sup>	56.10 38
Dez. 4.3	61.243 <sup>109</sup>	35.17 84	35.641 <sup>224</sup>	61.63 80	40.762 <sup>135</sup>	77.88 15	7.248 <sup>127</sup>	56.48 7
14.3	61.134 <sup>115</sup>	36.01 80	35.417 <sup>247</sup>	62.43 30	40.627 <sup>149</sup>	78.03 20	7.121 <sup>141</sup>	56.55 25
24.3	61.019 <sup>120</sup>	36.81 75	35.170 <sup>261</sup>	62.73 19	40.478 <sup>158</sup>	77.83 54	6.980 <sup>149</sup>	56.30 55
34.2	60.899	37.56	34.909	62.54	40.320	77.29	6.831	55.75
Mittl. Ort sec $\delta$ , tg $\delta$	57.367 1.003	57.32 -0.077	30.293 1.680	24.47 +1.349	36.199 1.196	44.84 +0.656	2.724 1.160	24.40 +0.587

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	21) $\alpha$ Cassiopeiae		22) $\beta$ Ceti		25) $\sigma$ Cassiopeiae		24) $\gamma$ Cassiopeiae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$0^h 35^m$	$+56^\circ 5'$	$0^h 39^m$	$-18^\circ 25'$	$0^h 40^m$	$+47^\circ 50'$	$0^h 40^m$	$+74^\circ 32'$
Jan. 0.2	58.987 <sup>286</sup>	76.52 <sup>41</sup>	35.216 <sup>132</sup>	35.15 <sup>55</sup>	17.006 <sup>220</sup>	66.89 <sup>49</sup>	22.92 <sup>71</sup>	87.36 <sup>0</sup>
10.2	58.701 <sup>285</sup>	76.11 <sup>93</sup>	35.084 <sup>130</sup>	35.70 <sup>31</sup>	16.786 <sup>223</sup>	66.40 <sup>94</sup>	22.21 <sup>71</sup>	87.36 <sup>61</sup>
20.2	58.416 <sup>275</sup>	75.18 <sup>139</sup>	34.954 <sup>125</sup>	36.01 <sup>5</sup>	16.563 <sup>215</sup>	65.46 <sup>134</sup>	21.50 <sup>67</sup>	86.75 <sup>120</sup>
30.2	58.141 <sup>251</sup>	73.79 <sup>181</sup>	34.829 <sup>113</sup>	36.06 <sup>23</sup>	16.348 <sup>198</sup>	64.12 <sup>170</sup>	20.83 <sup>63</sup>	85.55 <sup>175</sup>
Feb. 9.1	57.890 <sup>215</sup>	71.98 <sup>215</sup>	34.716 <sup>96</sup>	35.83 <sup>49</sup>	16.150 <sup>170</sup>	62.42 <sup>198</sup>	20.20 <sup>53</sup>	83.80 <sup>221</sup>
19.1	57.675 <sup>167</sup>	69.83 <sup>240</sup>	34.620 <sup>75</sup>	35.34 <sup>76</sup>	15.980 <sup>133</sup>	60.44 <sup>218</sup>	19.67 <sup>43</sup>	81.59 <sup>259</sup>
29.1	57.568 <sup>109</sup>	67.43 <sup>256</sup>	34.545 <sup>46</sup>	34.58 <sup>103</sup>	15.847 <sup>88</sup>	58.26 <sup>229</sup>	19.24 <sup>30</sup>	79.00 <sup>286</sup>
März 10.1	57.399 <sup>42</sup>	64.87 <sup>260</sup>	34.499 <sup>14</sup>	33.55 <sup>128</sup>	15.759 <sup>33</sup>	55.97 <sup>230</sup>	18.94 <sup>16</sup>	76.14 <sup>301</sup>
20.0	57.357 <sup>31</sup>	62.27 <sup>253</sup>	34.485 <sup>24</sup>	32.27 <sup>153</sup>	15.726 <sup>27</sup>	53.67 <sup>221</sup>	18.78 <sup>0</sup>	73.13 <sup>303</sup>
30.0	57.388 <sup>106</sup>	59.74 <sup>237</sup>	34.509 <sup>64</sup>	30.74 <sup>175</sup>	15.753 <sup>90</sup>	51.46 <sup>203</sup>	18.78 <sup>15</sup>	70.10 <sup>294</sup>
Apr. 9.0	57.494 <sup>181</sup>	57.37 <sup>211</sup>	34.573 <sup>106</sup>	28.99 <sup>195</sup>	15.843 <sup>152</sup>	49.43 <sup>176</sup>	18.93 <sup>31</sup>	67.16 <sup>274</sup>
18.9	57.675 <sup>253</sup>	55.26 <sup>176</sup>	34.679 <sup>149</sup>	27.04 <sup>211</sup>	15.995 <sup>213</sup>	47.67 <sup>142</sup>	19.24 <sup>45</sup>	64.42 <sup>244</sup>
28.9	57.928 <sup>318</sup>	53.50 <sup>135</sup>	34.828 <sup>189</sup>	24.93 <sup>224</sup>	16.208 <sup>270</sup>	46.25 <sup>103</sup>	19.69 <sup>58</sup>	61.98 <sup>204</sup>
Mai 8.9	58.246 <sup>375</sup>	52.15 <sup>90</sup>	35.017 <sup>227</sup>	22.69 <sup>231</sup>	16.478 <sup>319</sup>	45.22 <sup>60</sup>	20.27 <sup>70</sup>	59.94 <sup>159</sup>
18.9	58.621 <sup>421</sup>	51.25 <sup>42</sup>	35.244 <sup>259</sup>	20.38 <sup>234</sup>	16.797 <sup>359</sup>	44.62 <sup>14</sup>	20.97 <sup>78</sup>	58.35 <sup>108</sup>
28.8	59.042 <sup>455</sup>	50.83 <sup>9</sup>	35.503 <sup>285</sup>	18.04 <sup>230</sup>	17.156 <sup>390</sup>	44.48 <sup>32</sup>	21.75 <sup>85</sup>	57.27 <sup>54</sup>
Juni 7.8	59.497 <sup>476</sup>	50.92 <sup>58</sup>	35.788 <sup>303</sup>	15.74 <sup>221</sup>	17.546 <sup>410</sup>	44.80 <sup>78</sup>	22.60 <sup>89</sup>	56.73 <sup>0</sup>
17.8	59.973 <sup>485</sup>	51.50 <sup>106</sup>	36.091 <sup>314</sup>	13.53 <sup>206</sup>	17.956 <sup>419</sup>	45.58 <sup>120</sup>	23.49 <sup>92</sup>	56.73 <sup>56</sup>
27.8	60.458 <sup>481</sup>	52.56 <sup>151</sup>	36.405 <sup>317</sup>	11.47 <sup>186</sup>	18.375 <sup>417</sup>	46.78 <sup>160</sup>	24.41 <sup>90</sup>	57.29 <sup>108</sup>
Juli 7.7	60.939 <sup>465</sup>	54.07 <sup>192</sup>	36.722 <sup>310</sup>	9.61 <sup>161</sup>	18.792 <sup>404</sup>	48.38 <sup>196</sup>	25.31 <sup>88</sup>	58.37 <sup>159</sup>
17.7	61.404 <sup>438</sup>	55.99 <sup>228</sup>	37.032 <sup>295</sup>	8.00 <sup>131</sup>	19.196 <sup>382</sup>	50.34 <sup>226</sup>	26.19 <sup>83</sup>	59.96 <sup>205</sup>
27.7	61.842 <sup>402</sup>	58.27 <sup>258</sup>	37.327 <sup>275</sup>	6.69 <sup>98</sup>	19.578 <sup>351</sup>	52.60 <sup>250</sup>	27.02 <sup>76</sup>	62.01 <sup>247</sup>
Aug. 6.6	62.244 <sup>358</sup>	60.85 <sup>283</sup>	37.602 <sup>246</sup>	5.71 <sup>64</sup>	19.929 <sup>315</sup>	55.10 <sup>270</sup>	27.78 <sup>68</sup>	64.48 <sup>282</sup>
16.6	62.602 <sup>308</sup>	63.68 <sup>301</sup>	37.848 <sup>214</sup>	5.07 <sup>28</sup>	20.244 <sup>272</sup>	57.80 <sup>284</sup>	28.46 <sup>59</sup>	67.30 <sup>312</sup>
26.6	62.910 <sup>253</sup>	66.69 <sup>313</sup>	38.062 <sup>176</sup>	4.79 <sup>8</sup>	20.516 <sup>227</sup>	60.64 <sup>290</sup>	29.05 <sup>48</sup>	70.42 <sup>336</sup>
Sept. 5.6	63.163 <sup>197</sup>	69.82 <sup>319</sup>	38.238 <sup>139</sup>	4.87 <sup>40</sup>	20.743 <sup>178</sup>	63.54 <sup>292</sup>	29.53 <sup>38</sup>	73.78 <sup>351</sup>
15.5	63.360 <sup>138</sup>	73.01 <sup>318</sup>	38.377 <sup>99</sup>	5.27 <sup>72</sup>	20.921 <sup>130</sup>	66.46 <sup>287</sup>	29.91 <sup>25</sup>	77.29 <sup>361</sup>
25.5	63.498 <sup>81</sup>	76.19 <sup>311</sup>	38.476 <sup>60</sup>	5.99 <sup>97</sup>	21.051 <sup>81</sup>	69.33 <sup>277</sup>	30.16 <sup>14</sup>	80.90 <sup>362</sup>
Okt. 5.5	63.579 <sup>25</sup>	79.30 <sup>297</sup>	38.536 <sup>24</sup>	6.96 <sup>117</sup>	21.132 <sup>35</sup>	72.10 <sup>262</sup>	30.30 <sup>2</sup>	84.52 <sup>356</sup>
15.5	63.604 <sup>29</sup>	82.27 <sup>277</sup>	38.560 <sup>10</sup>	8.13 <sup>131</sup>	21.167 <sup>10</sup>	74.72 <sup>241</sup>	30.32 <sup>11</sup>	88.08 <sup>342</sup>
25.4	63.575 <sup>80</sup>	85.04 <sup>251</sup>	38.550 <sup>40</sup>	9.44 <sup>140</sup>	21.157 <sup>51</sup>	77.13 <sup>215</sup>	30.21 <sup>21</sup>	91.50 <sup>320</sup>
Nov. 4.4	63.495 <sup>128</sup>	87.55 <sup>220</sup>	38.510 <sup>65</sup>	10.84 <sup>141</sup>	21.106 <sup>90</sup>	79.28 <sup>185</sup>	30.00 <sup>33</sup>	94.70 <sup>290</sup>
14.4	63.367 <sup>171</sup>	89.75 <sup>181</sup>	38.445 <sup>87</sup>	12.25 <sup>137</sup>	21.016 <sup>125</sup>	81.13 <sup>150</sup>	29.67 <sup>43</sup>	97.60 <sup>252</sup>
24.3	63.196 <sup>210</sup>	91.56 <sup>139</sup>	38.358 <sup>104</sup>	13.62 <sup>127</sup>	20.891 <sup>156</sup>	82.63 <sup>111</sup>	29.24 <sup>53</sup>	100.12 <sup>206</sup>
Dez. 4.3	62.986 <sup>242</sup>	92.95 <sup>92</sup>	38.254 <sup>118</sup>	14.89 <sup>112</sup>	20.735 <sup>183</sup>	83.74 <sup>68</sup>	28.71 <sup>60</sup>	102.18 <sup>155</sup>
14.3	62.744 <sup>267</sup>	93.87 <sup>41</sup>	38.136 <sup>127</sup>	16.01 <sup>93</sup>	20.552 <sup>204</sup>	84.42 <sup>24</sup>	28.11 <sup>66</sup>	103.73 <sup>98</sup>
24.3	62.477 <sup>285</sup>	94.28 <sup>10</sup>	38.009 <sup>132</sup>	16.94 <sup>71</sup>	20.348 <sup>219</sup>	84.66 <sup>23</sup>	27.45 <sup>70</sup>	104.71 <sup>38</sup>
34.2	62.192	94.18	37.877	17.65	20.129	84.43	26.75	105.09
Mittl. Ort sec $\delta$ , tg $\delta$	57.404 1.793	55.68 +1.488	34.468 1.054	31.97 -0.333	15.561 1.490	48.14 +1.105	20.20 3.754	63.55 +3.619

Mittlere Zeit Greenw.	27) ζ Andromedae		32) γ Cassiopeiae		33) μ Andromedae		35) α Sculptoris	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	0 <sup>h</sup> 43 <sup>m</sup>	+23° 49'	0 <sup>h</sup> 51 <sup>m</sup>	+60° 16'	0 <sup>h</sup> 52 <sup>m</sup>	+38° 3'	0 <sup>h</sup> 54 <sup>m</sup>	-29° 46'
Jan. 0.3	6.793 <sup>136</sup>	67.29 <sup>72</sup>	53.95 <sup>33</sup>	82.87 <sup>14</sup>	19.790 <sup>173</sup>	72.23 <sup>52</sup>	45.822 <sup>158</sup>	90.17 <sup>50</sup>
10.2	6.657 <sup>139</sup>	66.57 <sup>93</sup>	53.62 <sup>34</sup>	82.73 <sup>69</sup>	19.617 <sup>177</sup>	71.71 <sup>86</sup>	45.664 <sup>158</sup>	90.67 <sup>14</sup>
20.2	6.518 <sup>135</sup>	65.64 <sup>110</sup>	53.28 <sup>33</sup>	82.04 <sup>119</sup>	19.440 <sup>175</sup>	70.85 <sup>119</sup>	45.506 <sup>153</sup>	90.81 <sup>22</sup>
30.2	6.383 <sup>125</sup>	64.54 <sup>123</sup>	52.95 <sup>31</sup>	80.85 <sup>166</sup>	19.265 <sup>163</sup>	69.66 <sup>147</sup>	45.353 <sup>143</sup>	90.59 <sup>59</sup>
Feb. 9.1	6.258 <sup>108</sup>	63.31 <sup>131</sup>	52.64 <sup>27</sup>	79.19 <sup>205</sup>	19.102 <sup>144</sup>	68.19 <sup>167</sup>	45.210 <sup>126</sup>	90.00 <sup>94</sup>
19.1	6.150 <sup>84</sup>	62.00 <sup>133</sup>	52.37 <sup>22</sup>	77.14 <sup>236</sup>	18.958 <sup>116</sup>	66.52 <sup>182</sup>	45.084 <sup>103</sup>	89.06 <sup>128</sup>
29.1	6.066 <sup>53</sup>	60.67 <sup>129</sup>	52.15 <sup>15</sup>	74.78 <sup>257</sup>	18.842 <sup>80</sup>	64.70 <sup>188</sup>	44.981 <sup>74</sup>	87.78 <sup>159</sup>
März 10.1	6.013 <sup>16</sup>	59.38 <sup>117</sup>	52.00 <sup>8</sup>	72.21 <sup>267</sup>	18.762 <sup>35</sup>	62.82 <sup>186</sup>	44.907 <sup>39</sup>	86.19 <sup>187</sup>
20.0	5.997 <sup>26</sup>	58.21 <sup>100</sup>	51.92 <sup>0</sup>	69.54 <sup>267</sup>	18.727 <sup>14</sup>	60.96 <sup>175</sup>	44.868 <sup>30</sup>	84.32 <sup>212</sup>
30.0	6.023 <sup>71</sup>	57.21 <sup>78</sup>	51.92 <sup>8</sup>	66.87 <sup>254</sup>	18.741 <sup>68</sup>	59.21 <sup>157</sup>	44.868 <sup>43</sup>	82.20 <sup>234</sup>
Apr. 9.0	6.094 <sup>118</sup>	56.43 <sup>50</sup>	52.00 <sup>17</sup>	64.33 <sup>233</sup>	18.809 <sup>122</sup>	57.64 <sup>131</sup>	44.911 <sup>88</sup>	79.86 <sup>251</sup>
19.0	6.212 <sup>164</sup>	55.93 <sup>19</sup>	52.17 <sup>25</sup>	62.00 <sup>202</sup>	18.931 <sup>176</sup>	56.33 <sup>99</sup>	44.999 <sup>135</sup>	77.35 <sup>264</sup>
28.9	6.376 <sup>207</sup>	55.74 <sup>15</sup>	52.42 <sup>33</sup>	59.98 <sup>165</sup>	19.107 <sup>226</sup>	55.34 <sup>64</sup>	45.134 <sup>179</sup>	74.71 <sup>270</sup>
Mai 8.9	6.583 <sup>246</sup>	55.89 <sup>48</sup>	52.75 <sup>39</sup>	58.33 <sup>121</sup>	19.333 <sup>271</sup>	54.70 <sup>24</sup>	45.313 <sup>221</sup>	72.01 <sup>271</sup>
18.9	6.829 <sup>279</sup>	56.37 <sup>82</sup>	53.14 <sup>45</sup>	57.12 <sup>73</sup>	19.604 <sup>309</sup>	54.46 <sup>16</sup>	45.534 <sup>258</sup>	69.30 <sup>266</sup>
28.8	7.108 <sup>304</sup>	57.19 <sup>114</sup>	53.59 <sup>49</sup>	56.39 <sup>23</sup>	19.913 <sup>339</sup>	54.62 <sup>56</sup>	45.792 <sup>288</sup>	66.64 <sup>254</sup>
Juni 7.8	7.412 <sup>321</sup>	58.33 <sup>142</sup>	54.08 <sup>52</sup>	56.16 <sup>27</sup>	20.252 <sup>359</sup>	55.18 <sup>95</sup>	46.080 <sup>312</sup>	64.10 <sup>236</sup>
17.8	7.733 <sup>329</sup>	59.75 <sup>167</sup>	54.60 <sup>53</sup>	56.43 <sup>76</sup>	20.611 <sup>370</sup>	56.13 <sup>131</sup>	46.392 <sup>327</sup>	61.74 <sup>212</sup>
27.8	8.062 <sup>330</sup>	61.42 <sup>187</sup>	55.13 <sup>54</sup>	57.19 <sup>124</sup>	20.981 <sup>371</sup>	57.44 <sup>163</sup>	46.719 <sup>333</sup>	59.62 <sup>183</sup>
Juli 7.7	8.392 <sup>321</sup>	63.29 <sup>202</sup>	55.67 <sup>52</sup>	58.43 <sup>168</sup>	21.352 <sup>362</sup>	59.07 <sup>192</sup>	47.052 <sup>330</sup>	57.79 <sup>148</sup>
17.7	8.713 <sup>304</sup>	65.31 <sup>212</sup>	56.19 <sup>50</sup>	60.11 <sup>208</sup>	21.714 <sup>346</sup>	60.99 <sup>215</sup>	47.382 <sup>319</sup>	56.31 <sup>109</sup>
27.7	9.017 <sup>283</sup>	67.43 <sup>217</sup>	56.69 <sup>46</sup>	62.19 <sup>241</sup>	22.060 <sup>321</sup>	63.14 <sup>233</sup>	47.701 <sup>299</sup>	55.22 <sup>68</sup>
Aug. 6.7	9.299 <sup>252</sup>	69.60 <sup>217</sup>	57.15 <sup>42</sup>	64.60 <sup>271</sup>	22.381 <sup>290</sup>	65.47 <sup>245</sup>	48.000 <sup>272</sup>	54.54 <sup>25</sup>
16.6	9.552 <sup>219</sup>	71.77 <sup>211</sup>	57.57 <sup>36</sup>	67.31 <sup>295</sup>	22.671 <sup>254</sup>	67.92 <sup>252</sup>	48.272 <sup>239</sup>	54.29 <sup>18</sup>
26.6	9.771 <sup>184</sup>	73.88 <sup>202</sup>	57.93 <sup>31</sup>	70.26 <sup>311</sup>	22.925 <sup>216</sup>	70.44 <sup>254</sup>	48.511 <sup>202</sup>	54.47 <sup>59</sup>
Sept. 5.6	9.955 <sup>147</sup>	75.90 <sup>189</sup>	58.24 <sup>25</sup>	73.37 <sup>321</sup>	23.141 <sup>175</sup>	72.98 <sup>250</sup>	48.713 <sup>160</sup>	55.06 <sup>97</sup>
15.5	10.102 <sup>109</sup>	77.79 <sup>173</sup>	58.49 <sup>18</sup>	76.58 <sup>326</sup>	23.316 <sup>133</sup>	75.48 <sup>242</sup>	48.873 <sup>118</sup>	56.03 <sup>131</sup>
25.5	10.211 <sup>72</sup>	79.52 <sup>155</sup>	58.67 <sup>12</sup>	79.84 <sup>323</sup>	23.449 <sup>91</sup>	77.90 <sup>230</sup>	48.991 <sup>76</sup>	57.34 <sup>159</sup>
Okt. 5.5	10.283 <sup>37</sup>	81.07 <sup>134</sup>	58.79 <sup>6</sup>	83.07 <sup>313</sup>	23.540 <sup>52</sup>	80.20 <sup>213</sup>	49.067 <sup>34</sup>	58.93 <sup>179</sup>
15.5	10.320 <sup>5</sup>	82.41 <sup>112</sup>	58.85 <sup>0</sup>	86.20 <sup>297</sup>	23.592 <sup>14</sup>	82.33 <sup>193</sup>	49.101 <sup>4</sup>	60.72 <sup>192</sup>
25.4	10.325 <sup>24</sup>	83.53 <sup>89</sup>	58.85 <sup>7</sup>	89.17 <sup>275</sup>	23.606 <sup>21</sup>	84.26 <sup>170</sup>	49.097 <sup>40</sup>	62.64 <sup>196</sup>
Nov. 4.4	10.301 <sup>50</sup>	84.42 <sup>65</sup>	58.78 <sup>12</sup>	91.92 <sup>245</sup>	23.585 <sup>54</sup>	85.96 <sup>142</sup>	49.057 <sup>70</sup>	64.60 <sup>192</sup>
14.4	10.251 <sup>74</sup>	85.07 <sup>40</sup>	58.66 <sup>18</sup>	94.37 <sup>210</sup>	23.531 <sup>85</sup>	87.38 <sup>111</sup>	48.987 <sup>97</sup>	66.52 <sup>180</sup>
24.4	10.177 <sup>95</sup>	85.47 <sup>15</sup>	58.48 <sup>22</sup>	96.47 <sup>169</sup>	23.446 <sup>111</sup>	88.49 <sup>79</sup>	48.890 <sup>119</sup>	68.32 <sup>162</sup>
Dez. 4.3	10.082 <sup>112</sup>	85.62 <sup>10</sup>	58.26 <sup>27</sup>	98.16 <sup>122</sup>	23.335 <sup>135</sup>	89.28 <sup>44</sup>	48.771 <sup>136</sup>	69.94 <sup>136</sup>
14.3	9.970 <sup>125</sup>	85.52 <sup>35</sup>	57.99 <sup>30</sup>	99.38 <sup>71</sup>	23.200 <sup>155</sup>	89.72 <sup>7</sup>	48.635 <sup>149</sup>	71.30 <sup>107</sup>
24.3	9.845 <sup>136</sup>	85.17 <sup>59</sup>	57.69 <sup>32</sup>	100.09 <sup>18</sup>	23.045 <sup>169</sup>	89.79 <sup>30</sup>	48.486 <sup>158</sup>	72.37 <sup>73</sup>
34.2	9.709	84.58	57.37	100.27	22.876	89.49	48.328	73.10
Mittl. Ort sec δ, tg δ	5.656 1.093	55.83 +0.442	52.02 2.017	61.72 +1.752	18.403 1.270	56.59 +0.783	45.089 1.152	82.97 -0.572

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	36) ε Piscium		38) β Phoenicis		42) β Andromedae		45) υ Piscium	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	0 <sup>h</sup> 58 <sup>m</sup>	+7° 27'	1 <sup>h</sup> 2 <sup>m</sup>	-47° 8'	1 <sup>h</sup> 5 <sup>m</sup>	+35° 11'	1 <sup>h</sup> 15 <sup>m</sup>	+26° 50'
Jan. 0.3	48.433 <sub>120</sub>	40.35 <sub>73</sub>	31.463 <sub>236</sub>	61.47 <sub>31</sub>	16.276 <sub>160</sub>	62.71 <sub>46</sub>	5.273 <sub>139</sub>	49.42 <sub>51</sub>
10.2	48.313 <sub>124</sub>	39.62 <sub>75</sub>	31.227 <sub>235</sub>	61.78 <sub>20</sub>	16.116 <sub>169</sub>	62.25 <sub>78</sub>	5.134 <sub>148</sub>	48.91 <sub>74</sub>
20.2	48.189 <sub>124</sub>	38.87 <sub>76</sub>	30.992 <sub>227</sub>	61.58 <sub>68</sub>	15.947 <sub>169</sub>	61.47 <sub>107</sub>	4.986 <sub>151</sub>	48.17 <sub>95</sub>
30.2	48.065 <sub>117</sub>	38.11 <sub>72</sub>	30.765 <sub>211</sub>	60.90 <sub>116</sub>	15.778 <sub>162</sub>	60.40 <sub>132</sub>	4.835 <sub>146</sub>	47.22 <sub>112</sub>
Feb. 9.2	47.948 <sub>104</sub>	37.39 <sub>65</sub>	30.554 <sub>188</sub>	59.74 <sub>160</sub>	15.616 <sub>146</sub>	59.08 <sub>153</sub>	4.689 <sub>135</sub>	46.10 <sub>125</sub>
19.1	47.844 <sub>85</sub>	36.74 <sub>55</sub>	30.366 <sub>159</sub>	58.14 <sub>200</sub>	15.470 <sub>121</sub>	57.55 <sub>165</sub>	4.554 <sub>114</sub>	44.85 <sub>132</sub>
29.1	47.759 <sub>60</sub>	36.19 <sub>42</sub>	30.207 <sub>122</sub>	56.14 <sub>235</sub>	15.349 <sub>88</sub>	55.90 <sub>170</sub>	4.440 <sub>86</sub>	43.53 <sub>133</sub>
März 10.1	47.699 <sub>28</sub>	35.77 <sub>25</sub>	30.085 <sub>79</sub>	53.79 <sub>266</sub>	15.261 <sub>47</sub>	54.18 <sub>172</sub>	4.354 <sub>50</sub>	42.20 <sub>127</sub>
20.0	47.671 <sub>10</sub>	35.52 <sub>4</sub>	30.006 <sub>31</sub>	51.13 <sub>290</sub>	15.214 <sub>0</sub>	52.48 <sub>161</sub>	4.304 <sub>8</sub>	40.93 <sub>115</sub>
30.0	47.681 <sub>50</sub>	35.48 <sub>19</sub>	29.975 <sub>22</sub>	48.23 <sub>309</sub>	15.214 <sub>51</sub>	50.87 <sub>143</sub>	4.296 <sub>37</sub>	39.78 <sub>98</sub>
Apr. 9.0	47.731 <sub>93</sub>	35.67 <sub>45</sub>	29.997 <sub>78</sub>	45.14 <sub>321</sub>	15.265 <sub>105</sub>	49.44 <sub>119</sub>	4.333 <sub>87</sub>	38.80 <sub>74</sub>
19.0	47.824 <sub>136</sub>	36.12 <sub>71</sub>	30.075 <sub>134</sub>	41.93 <sub>326</sub>	15.370 <sub>157</sub>	48.25 <sub>90</sub>	4.420 <sub>136</sub>	38.06 <sub>46</sub>
28.9	47.960 <sub>177</sub>	36.83 <sub>97</sub>	30.209 <sub>189</sub>	38.67 <sub>324</sub>	15.527 <sub>207</sub>	47.35 <sub>56</sub>	4.556 <sub>183</sub>	37.60 <sub>15</sub>
Mai 8.9	48.137 <sub>216</sub>	37.80 <sub>121</sub>	30.398 <sub>240</sub>	35.43 <sub>315</sub>	15.734 <sub>252</sub>	46.79 <sub>19</sub>	4.739 <sub>226</sub>	37.45 <sub>17</sub>
18.9	48.353 <sub>249</sub>	39.01 <sub>143</sub>	30.638 <sub>287</sub>	32.28 <sub>299</sub>	15.986 <sub>291</sub>	46.60 <sub>18</sub>	4.905 <sub>264</sub>	37.62 <sub>50</sub>
28.9	48.602 <sub>275</sub>	40.44 <sub>163</sub>	30.925 <sub>327</sub>	29.29 <sub>276</sub>	16.277 <sub>323</sub>	46.78 <sub>56</sub>	5.229 <sub>295</sub>	38.12 <sub>83</sub>
Juni 7.8	48.877 <sub>295</sub>	42.07 <sub>176</sub>	31.252 <sub>359</sub>	26.53 <sub>245</sub>	16.600 <sub>344</sub>	47.34 <sub>93</sub>	5.524 <sub>317</sub>	38.95 <sub>112</sub>
17.8	49.172 <sub>307</sub>	43.83 <sub>188</sub>	31.611 <sub>380</sub>	24.08 <sub>209</sub>	16.944 <sub>358</sub>	48.27 <sub>126</sub>	5.841 <sub>332</sub>	40.07 <sub>140</sub>
27.8	49.479 <sub>309</sub>	45.71 <sub>192</sub>	31.991 <sub>392</sub>	21.99 <sub>167</sub>	17.302 <sub>362</sub>	49.53 <sub>156</sub>	6.173 <sub>338</sub>	41.47 <sub>163</sub>
Juli 7.7	49.788 <sub>306</sub>	47.63 <sub>192</sub>	32.383 <sub>394</sub>	20.32 <sub>121</sub>	17.664 <sub>356</sub>	51.09 <sub>182</sub>	6.511 <sub>334</sub>	43.10 <sub>181</sub>
17.7	50.094 <sub>292</sub>	49.55 <sub>186</sub>	32.777 <sub>383</sub>	19.11 <sub>71</sub>	18.020 <sub>342</sub>	52.91 <sub>204</sub>	6.845 <sub>323</sub>	44.91 <sub>196</sub>
27.7	50.386 <sub>274</sub>	51.41 <sub>177</sub>	33.160 <sub>363</sub>	18.40 <sub>19</sub>	18.362 <sub>320</sub>	54.95 <sub>220</sub>	7.168 <sub>304</sub>	46.87 <sub>204</sub>
Aug. 6.7	50.660 <sub>249</sub>	53.18 <sub>162</sub>	33.523 <sub>333</sub>	18.21 <sub>33</sub>	18.682 <sub>293</sub>	57.15 <sub>230</sub>	7.472 <sub>280</sub>	48.91 <sub>208</sub>
16.6	50.909 <sub>220</sub>	54.80 <sub>145</sub>	33.856 <sub>294</sub>	18.54 <sub>84</sub>	18.975 <sub>260</sub>	59.45 <sub>236</sub>	7.752 <sub>252</sub>	50.99 <sub>208</sub>
26.6	51.129 <sub>188</sub>	56.25 <sub>124</sub>	34.150 <sub>249</sub>	19.38 <sub>131</sub>	19.235 <sub>223</sub>	61.81 <sub>237</sub>	8.004 <sub>218</sub>	53.07 <sub>203</sub>
Sept. 5.6	51.317 <sub>153</sub>	57.49 <sub>102</sub>	34.399 <sub>199</sub>	20.69 <sub>173</sub>	19.458 <sub>186</sub>	64.18 <sub>233</sub>	8.222 <sub>183</sub>	55.10 <sub>193</sub>
15.6	51.470 <sub>118</sub>	58.51 <sub>80</sub>	34.598 <sub>144</sub>	22.42 <sub>209</sub>	19.644 <sub>145</sub>	66.51 <sub>225</sub>	8.405 <sub>147</sub>	57.03 <sub>181</sub>
25.5	51.588 <sub>84</sub>	59.31 <sub>56</sub>	34.742 <sub>89</sub>	24.51 <sub>237</sub>	19.789 <sub>107</sub>	68.76 <sub>212</sub>	8.552 <sub>111</sub>	58.84 <sub>166</sub>
Okt. 5.5	51.672 <sub>51</sub>	59.87 <sub>34</sub>	34.831 <sub>34</sub>	26.88 <sub>255</sub>	19.896 <sub>68</sub>	70.88 <sub>197</sub>	8.663 <sub>76</sub>	60.50 <sub>149</sub>
15.5	51.723 <sub>20</sub>	60.21 <sub>14</sub>	34.865 <sub>19</sub>	29.43 <sub>263</sub>	19.964 <sub>32</sub>	72.85 <sub>177</sub>	8.739 <sub>42</sub>	61.99 <sub>129</sub>
25.4	51.743 <sub>8</sub>	60.35 <sub>5</sub>	34.846 <sub>68</sub>	32.06 <sub>260</sub>	19.996 <sub>3</sub>	74.62 <sub>155</sub>	8.781 <sub>10</sub>	63.28 <sub>109</sub>
Nov. 4.4	51.735 <sub>33</sub>	60.30 <sub>22</sub>	34.778 <sub>111</sub>	34.66 <sub>248</sub>	19.993 <sub>36</sub>	76.17 <sub>131</sub>	8.791 <sub>19</sub>	64.37 <sub>87</sub>
14.4	51.702 <sub>56</sub>	60.08 <sub>35</sub>	34.667 <sub>150</sub>	37.14 <sub>224</sub>	19.957 <sub>66</sub>	77.48 <sub>102</sub>	8.772 <sub>48</sub>	65.24 <sub>63</sub>
24.4	51.646 <sub>75</sub>	59.73 <sub>48</sub>	34.517 <sub>180</sub>	39.38 <sub>193</sub>	19.891 <sub>94</sub>	78.50 <sub>73</sub>	8.724 <sub>73</sub>	65.87 <sub>39</sub>
Dez. 4.3	51.571 <sub>93</sub>	59.25 <sub>58</sub>	34.337 <sub>205</sub>	41.31 <sub>154</sub>	19.797 <sub>118</sub>	79.23 <sub>41</sub>	8.651 <sub>97</sub>	66.26 <sub>14</sub>
14.3	51.478 <sub>107</sub>	58.67 <sub>65</sub>	34.132 <sub>223</sub>	42.85 <sub>111</sub>	19.679 <sub>140</sub>	79.64 <sub>8</sub>	8.554 <sub>117</sub>	66.40 <sub>12</sub>
24.3	51.371 <sub>118</sub>	58.02 <sub>71</sub>	33.909 <sub>233</sub>	43.96 <sub>62</sub>	19.539 <sub>156</sub>	79.72 <sub>26</sub>	8.437 <sub>134</sub>	66.28 <sub>36</sub>
34.3	51.253	57.31	33.676	44.58	19.383	79.46	8.303	65.92
Mittl. Ort sec δ, tg δ	47.352 1.009	35.10 +0.131	30.876 1.470	49.51 -1.078	14.829 1.224	48.41 +0.705	3.875 1.121	38.14 +0.506

Mittlere Zeit Greenw.	47) $\theta$ Ceti		48) $\delta$ Cassiopeiae		50) $\eta$ Piscium		51) $\delta$ Cassiopeiae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$1^h 20^m$	$-8^{\circ} 35'$	$1^h 20^m$	$+59^{\circ} 49'$	$1^h 27^m$	$+14^{\circ} 56'$	$1^h 32^m$	$+72^{\circ} 37'$
Jan. 0.3	2.512 <sup>124</sup>	45.99 <sup>78</sup>	36.397 <sup>313</sup>	31.85 <sup>18</sup>	13.285 <sup>122</sup>	8.41 <sup>62</sup>	9.14 <sup>59</sup>	79.98 <sup>64</sup>
10.3	2.388 <sup>130</sup>	46.77 <sup>63</sup>	36.084 <sup>330</sup>	32.03 <sup>34</sup>	13.163 <sup>131</sup>	7.79 <sup>72</sup>	8.55 <sup>62</sup>	80.62 <sup>5</sup>
20.2	2.258 <sup>133</sup>	47.40 <sup>44</sup>	35.754 <sup>334</sup>	31.69 <sup>86</sup>	13.032 <sup>137</sup>	7.07 <sup>79</sup>	7.93 <sup>62</sup>	80.67 <sup>55</sup>
30.2	2.125 <sup>129</sup>	47.84 <sup>25</sup>	35.420 <sup>322</sup>	30.83 <sup>134</sup>	12.895 <sup>135</sup>	6.28 <sup>84</sup>	7.31 <sup>61</sup>	80.12 <sup>113</sup>
Feb. 9.2	1.996 <sup>119</sup>	48.09 <sup>5</sup>	35.098 <sup>295</sup>	29.49 <sup>176</sup>	12.760 <sup>127</sup>	5.44 <sup>85</sup>	6.70 <sup>56</sup>	78.99 <sup>164</sup>
19.1	1.877 <sup>103</sup>	48.14 <sup>18</sup>	34.803 <sup>254</sup>	27.73 <sup>211</sup>	12.633 <sup>110</sup>	4.59 <sup>83</sup>	6.14 <sup>50</sup>	77.35 <sup>210</sup>
29.1	1.774 <sup>80</sup>	47.96 <sup>41</sup>	34.549 <sup>197</sup>	25.62 <sup>238</sup>	12.523 <sup>87</sup>	3.76 <sup>76</sup>	5.64 <sup>40</sup>	75.25 <sup>247</sup>
März 10.1	1.694 <sup>51</sup>	47.55 <sup>65</sup>	34.352 <sup>130</sup>	23.24 <sup>253</sup>	12.436 <sup>56</sup>	3.00 <sup>64</sup>	5.24 <sup>28</sup>	72.78 <sup>273</sup>
20.1	1.643 <sup>16</sup>	46.90 <sup>90</sup>	34.222 <sup>53</sup>	20.71 <sup>260</sup>	12.380 <sup>18</sup>	2.36 <sup>48</sup>	4.96 <sup>16</sup>	70.05 <sup>288</sup>
30.0	1.627 <sup>24</sup>	46.00 <sup>113</sup>	34.169 <sup>31</sup>	18.11 <sup>254</sup>	12.362 <sup>23</sup>	1.88 <sup>28</sup>	4.80 <sup>2</sup>	67.17 <sup>291</sup>
Apr. 9.0	1.651 <sup>66</sup>	44.87 <sup>137</sup>	34.200 <sup>116</sup>	15.57 <sup>238</sup>	12.385 <sup>69</sup>	1.60 <sup>5</sup>	4.78 <sup>13</sup>	64.26 <sup>283</sup>
19.0	1.717 <sup>109</sup>	43.50 <sup>158</sup>	34.316 <sup>200</sup>	13.19 <sup>215</sup>	12.454 <sup>114</sup>	1.55 <sup>20</sup>	4.91 <sup>26</sup>	61.43 <sup>265</sup>
29.0	1.826 <sup>152</sup>	41.92 <sup>176</sup>	34.516 <sup>280</sup>	11.04 <sup>182</sup>	12.568 <sup>158</sup>	1.75 <sup>48</sup>	5.17 <sup>40</sup>	58.78 <sup>237</sup>
Mai 8.9	1.978 <sup>192</sup>	40.16 <sup>193</sup>	34.796 <sup>352</sup>	9.22 <sup>144</sup>	12.726 <sup>201</sup>	2.23 <sup>74</sup>	5.57 <sup>51</sup>	56.41 <sup>200</sup>
18.9	2.170 <sup>227</sup>	38.23 <sup>204</sup>	35.148 <sup>415</sup>	7.78 <sup>100</sup>	12.927 <sup>237</sup>	2.97 <sup>100</sup>	6.08 <sup>62</sup>	54.41 <sup>159</sup>
28.9	2.397 <sup>258</sup>	36.19 <sup>210</sup>	35.563 <sup>464</sup>	6.78 <sup>54</sup>	13.164 <sup>268</sup>	3.97 <sup>124</sup>	6.70 <sup>70</sup>	52.82 <sup>111</sup>
Juni 7.8	2.655 <sup>282</sup>	34.09 <sup>212</sup>	36.027 <sup>501</sup>	6.24 <sup>6</sup>	13.432 <sup>292</sup>	5.21 <sup>145</sup>	7.40 <sup>77</sup>	51.71 <sup>61</sup>
17.8	2.937 <sup>297</sup>	31.97 <sup>208</sup>	36.528 <sup>525</sup>	6.18 <sup>42</sup>	13.724 <sup>307</sup>	6.66 <sup>162</sup>	8.17 <sup>82</sup>	51.10 <sup>10</sup>
27.8	3.234 <sup>305</sup>	29.89 <sup>198</sup>	37.053 <sup>535</sup>	6.60 <sup>89</sup>	14.031 <sup>315</sup>	8.28 <sup>175</sup>	8.99 <sup>83</sup>	51.00 <sup>42</sup>
Juli 7.8	3.539 <sup>305</sup>	27.91 <sup>182</sup>	37.588 <sup>530</sup>	7.49 <sup>133</sup>	14.346 <sup>315</sup>	10.03 <sup>182</sup>	9.82 <sup>84</sup>	51.42 <sup>93</sup>
17.7	3.844 <sup>297</sup>	26.09 <sup>163</sup>	38.118 <sup>515</sup>	8.82 <sup>174</sup>	14.661 <sup>307</sup>	11.85 <sup>185</sup>	10.66 <sup>82</sup>	52.35 <sup>140</sup>
27.7	4.141 <sup>282</sup>	24.46 <sup>137</sup>	38.633 <sup>488</sup>	10.56 <sup>210</sup>	14.968 <sup>292</sup>	13.70 <sup>183</sup>	11.48 <sup>79</sup>	53.75 <sup>184</sup>
Aug. 6.7	4.423 <sup>260</sup>	23.09 <sup>110</sup>	39.121 <sup>452</sup>	12.66 <sup>242</sup>	15.260 <sup>270</sup>	15.53 <sup>176</sup>	12.27 <sup>73</sup>	55.59 <sup>225</sup>
16.7	4.683 <sup>235</sup>	21.99 <sup>80</sup>	39.573 <sup>407</sup>	15.08 <sup>267</sup>	15.530 <sup>245</sup>	17.29 <sup>165</sup>	13.00 <sup>67</sup>	57.84 <sup>260</sup>
26.6	4.918 <sup>204</sup>	21.19 <sup>47</sup>	39.980 <sup>356</sup>	17.75 <sup>288</sup>	15.775 <sup>215</sup>	18.94 <sup>152</sup>	13.67 <sup>59</sup>	60.44 <sup>290</sup>
Sept. 5.6	5.122 <sup>171</sup>	20.72 <sup>16</sup>	40.336 <sup>302</sup>	20.63 <sup>302</sup>	15.990 <sup>183</sup>	20.46 <sup>134</sup>	14.26 <sup>51</sup>	63.34 <sup>314</sup>
15.6	5.293 <sup>136</sup>	20.56 <sup>14</sup>	40.638 <sup>242</sup>	23.65 <sup>310</sup>	16.173 <sup>149</sup>	21.80 <sup>116</sup>	14.77 <sup>42</sup>	66.48 <sup>331</sup>
25.5	5.429 <sup>101</sup>	20.70 <sup>42</sup>	40.880 <sup>181</sup>	26.75 <sup>312</sup>	16.322 <sup>117</sup>	22.96 <sup>96</sup>	15.19 <sup>31</sup>	69.79 <sup>341</sup>
Okt. 5.5	5.530 <sup>68</sup>	21.12 <sup>67</sup>	41.061 <sup>120</sup>	29.87 <sup>309</sup>	16.439 <sup>83</sup>	23.92 <sup>76</sup>	15.50 <sup>21</sup>	73.20 <sup>345</sup>
15.5	5.598 <sup>36</sup>	21.79 <sup>85</sup>	41.181 <sup>59</sup>	32.96 <sup>297</sup>	16.522 <sup>53</sup>	24.68 <sup>56</sup>	15.71 <sup>10</sup>	76.65 <sup>341</sup>
25.5	5.634 <sup>5</sup>	22.64 <sup>101</sup>	41.240 <sup>3</sup>	35.93 <sup>280</sup>	16.575 <sup>22</sup>	25.24 <sup>38</sup>	15.81 <sup>0</sup>	80.06 <sup>329</sup>
Nov. 4.4	5.639 <sup>22</sup>	23.65 <sup>111</sup>	41.237 <sup>62</sup>	38.73 <sup>256</sup>	16.597 <sup>6</sup>	25.62 <sup>19</sup>	15.81 <sup>12</sup>	83.35 <sup>310</sup>
14.4	5.617 <sup>47</sup>	24.76 <sup>114</sup>	41.175 <sup>120</sup>	41.29 <sup>226</sup>	16.591 <sup>32</sup>	25.81 <sup>1</sup>	15.69 <sup>21</sup>	86.45 <sup>283</sup>
24.4	5.570 <sup>69</sup>	25.90 <sup>114</sup>	41.055 <sup>174</sup>	43.55 <sup>189</sup>	16.559 <sup>56</sup>	25.82 <sup>14</sup>	15.48 <sup>32</sup>	89.28 <sup>247</sup>
Dez. 4.4	5.501 <sup>89</sup>	27.04 <sup>109</sup>	40.881 <sup>224</sup>	45.44 <sup>147</sup>	16.503 <sup>79</sup>	25.68 <sup>29</sup>	15.16 <sup>42</sup>	91.75 <sup>203</sup>
14.3	5.412 <sup>105</sup>	28.13 <sup>100</sup>	40.657 <sup>267</sup>	46.91 <sup>101</sup>	16.424 <sup>99</sup>	25.39 <sup>43</sup>	14.74 <sup>50</sup>	93.78 <sup>155</sup>
24.3	5.307 <sup>119</sup>	29.13 <sup>89</sup>	40.390 <sup>302</sup>	47.92 <sup>50</sup>	16.325 <sup>115</sup>	24.96 <sup>55</sup>	14.24 <sup>56</sup>	95.33 <sup>99</sup>
34.3	5.188	30.02	40.088	48.42	16.210	24.41	13.68	96.32
Mittl. Ort sec $\delta$ , tg $\delta$	1.446 1.011	44.92 -0.151	34.095 1.989	12.04 +1.720	11.954 1.035	1.58 +0.267	5.44 3.350	58.72 +3.197



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	52) $\upsilon$ Persei		54) $\alpha$ Eridani		55) $\zeta$ Cassiopeiae		57) $\varphi$ Persei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$1^h 33^m$	$+48^\circ 13'$	$1^h 34^m$	$-57^\circ 38'$	$1^h 36^m$	$+67^\circ 38'$	$1^h 38^m$	$+50^\circ 17'$
Jan. 0.3	6.327 <sup>209</sup>	40.82	44.947 <sup>334</sup>	49.11 <sup>53</sup>	26.70 <sup>43</sup>	41.01 <sup>56</sup>	40.269 <sup>219</sup>	27.37 <sup>15</sup>
10.3	6.118 <sup>227</sup>	40.86 <sup>4</sup> <sub>39</sub>	44.613 <sup>342</sup>	49.64 <sup>4</sup>	26.27 <sup>47</sup>	41.57 <sup>0</sup>	40.050 <sup>239</sup>	27.52 <sup>31</sup>
20.2	5.891 <sup>234</sup>	40.47 <sup>81</sup>	44.271 <sup>339</sup>	49.60 <sup>60</sup>	25.80 <sup>47</sup>	41.57 <sup>57</sup>	39.811 <sup>249</sup>	27.21 <sup>73</sup>
30.2	5.657 <sup>231</sup>	39.66 <sup>120</sup>	43.932 <sup>325</sup>	49.00 <sup>113</sup>	25.33 <sup>46</sup>	41.00 <sup>111</sup>	39.562 <sup>246</sup>	26.48 <sup>114</sup>
Feb. 9.2	5.426 <sup>216</sup>	38.46 <sup>154</sup>	43.607 <sup>302</sup>	47.87 <sup>164</sup>	24.87 <sup>44</sup>	39.89 <sup>161</sup>	39.316 <sup>232</sup>	25.34 <sup>151</sup>
19.2	5.210 <sup>189</sup>	36.92 <sup>181</sup>	43.305 <sup>270</sup>	46.23 <sup>210</sup>	24.43 <sup>38</sup>	38.28 <sup>204</sup>	39.084 <sup>206</sup>	23.83 <sup>180</sup>
29.1	5.021 <sup>152</sup>	35.11 <sup>201</sup>	43.035 <sup>227</sup>	44.13 <sup>251</sup>	24.05 <sup>31</sup>	36.24 <sup>238</sup>	38.878 <sup>167</sup>	22.03 <sup>203</sup>
März 10.1	4.869 <sup>104</sup>	33.10 <sup>212</sup>	42.808 <sup>176</sup>	41.62 <sup>285</sup>	23.74 <sup>22</sup>	33.86 <sup>262</sup>	38.711 <sup>117</sup>	20.00 <sup>216</sup>
20.1	4.765 <sup>47</sup> <sub>15</sub>	30.98 <sup>215</sup>	42.632 <sup>118</sup>	38.77 <sup>313</sup>	23.52 <sup>12</sup>	31.24 <sup>275</sup>	38.594 <sup>59</sup>	17.84 <sup>220</sup>
30.0	4.718 <sup>47</sup> <sub>15</sub>	28.83 <sup>206</sup>	42.514 <sup>53</sup>	35.64 <sup>335</sup>	23.40 <sup>1</sup>	28.49 <sup>277</sup>	38.535 <sup>6</sup>	15.64 <sup>215</sup>
Apr. 9.0	4.733 <sup>80</sup>	26.77 <sup>191</sup>	42.461 <sup>14</sup>	32.29 <sup>348</sup>	23.39 <sup>10</sup>	25.72 <sup>269</sup>	38.541 <sup>74</sup>	13.49 <sup>201</sup>
19.0	4.813 <sup>146</sup>	24.86 <sup>168</sup>	42.475 <sup>85</sup>	28.81 <sup>354</sup>	23.49 <sup>20</sup>	23.03 <sup>250</sup>	38.615 <sup>142</sup>	11.48 <sup>179</sup>
29.0	4.959 <sup>209</sup>	23.18 <sup>137</sup>	42.560 <sup>156</sup>	25.27 <sup>353</sup>	23.69 <sup>32</sup>	20.53 <sup>223</sup>	38.757 <sup>208</sup>	9.69 <sup>150</sup>
Mai 8.9	5.168 <sup>267</sup>	21.81 <sup>101</sup>	42.716 <sup>223</sup>	21.74 <sup>343</sup>	24.01 <sup>41</sup>	18.30 <sup>186</sup>	38.965 <sup>269</sup>	8.19 <sup>115</sup>
18.9	5.435 <sup>318</sup>	20.80 <sup>62</sup>	42.939 <sup>286</sup>	18.31 <sup>326</sup>	24.42 <sup>50</sup>	16.44 <sup>145</sup>	39.234 <sup>323</sup>	7.04 <sup>75</sup>
28.9	5.753 <sup>360</sup>	20.18 <sup>22</sup> <sub>21</sub>	43.225 <sup>344</sup>	15.05 <sup>300</sup>	24.92 <sup>56</sup>	14.99 <sup>100</sup>	39.557 <sup>367</sup>	6.29 <sup>35</sup>
Juni 7.9	6.113 <sup>392</sup>	19.96 <sup>21</sup>	43.569 <sup>390</sup>	12.05 <sup>269</sup>	25.48 <sup>62</sup>	13.99 <sup>50</sup>	39.924 <sup>402</sup>	5.94 <sup>8</sup>
17.8	6.505 <sup>413</sup>	20.17 <sup>63</sup>	43.959 <sup>428</sup>	9.36 <sup>229</sup>	26.10 <sup>66</sup>	13.49 <sup>1</sup>	40.326 <sup>426</sup>	6.02 <sup>50</sup>
27.8	6.918 <sup>424</sup>	20.80 <sup>102</sup>	44.387 <sup>454</sup>	7.07 <sup>184</sup>	26.76 <sup>68</sup>	13.48 <sup>49</sup>	40.752 <sup>438</sup>	6.52 <sup>91</sup>
Juli 7.8	7.342 <sup>424</sup>	21.82 <sup>139</sup>	44.841 <sup>467</sup>	5.23 <sup>133</sup>	27.44 <sup>67</sup>	13.97 <sup>97</sup>	41.190 <sup>439</sup>	7.43 <sup>129</sup>
17.7	7.766 <sup>414</sup>	23.21 <sup>171</sup>	45.308 <sup>466</sup>	3.90 <sup>79</sup>	28.11 <sup>67</sup>	14.94 <sup>143</sup>	41.629 <sup>430</sup>	8.72 <sup>163</sup>
27.7	8.180 <sup>394</sup>	24.92 <sup>200</sup>	45.774 <sup>453</sup>	3.11 <sup>22</sup>	28.78 <sup>64</sup>	16.37 <sup>185</sup>	42.059 <sup>412</sup>	10.35 <sup>194</sup>
Aug. 6.7	8.574 <sup>368</sup>	26.92 <sup>223</sup>	46.227 <sup>427</sup>	2.89 <sup>35</sup>	29.42 <sup>59</sup>	18.22 <sup>222</sup>	42.471 <sup>386</sup>	12.29 <sup>219</sup>
16.7	8.942 <sup>335</sup>	29.15 <sup>242</sup>	46.654 <sup>390</sup>	3.24 <sup>91</sup>	30.01 <sup>55</sup>	20.44 <sup>255</sup>	42.857 <sup>352</sup>	14.48 <sup>240</sup>
26.6	9.277 <sup>297</sup>	31.57 <sup>255</sup>	47.044 <sup>342</sup>	4.15 <sup>145</sup>	30.56 <sup>49</sup>	22.99 <sup>282</sup>	43.209 <sup>314</sup>	16.88 <sup>255</sup>
Sept. 5.6	9.574 <sup>255</sup>	34.12 <sup>264</sup>	47.386 <sup>284</sup>	5.60 <sup>192</sup>	31.05 <sup>42</sup>	25.81 <sup>304</sup>	43.523 <sup>272</sup>	19.43 <sup>266</sup>
15.6	9.829 <sup>211</sup>	36.76 <sup>266</sup>	47.670 <sup>221</sup>	7.52 <sup>234</sup>	31.47 <sup>37</sup>	28.85 <sup>319</sup>	43.795 <sup>227</sup>	22.09 <sup>270</sup>
25.6	10.040 <sup>166</sup>	39.42 <sup>264</sup>	47.891 <sup>152</sup>	9.86 <sup>267</sup>	31.81 <sup>24</sup>	32.04 <sup>328</sup>	44.022 <sup>180</sup>	24.79 <sup>270</sup>
Okt. 5.5	10.206 <sup>120</sup>	42.06 <sup>256</sup>	48.043 <sup>82</sup>	12.53 <sup>289</sup>	32.08 <sup>17</sup>	35.32 <sup>330</sup>	44.202 <sup>133</sup>	27.49 <sup>265</sup>
15.5	10.326 <sup>75</sup>	44.62 <sup>245</sup>	48.125 <sup>12</sup>	15.42 <sup>301</sup>	32.27 <sup>10</sup>	38.62 <sup>325</sup>	44.335 <sup>85</sup>	30.14 <sup>254</sup>
25.5	10.401 <sup>29</sup> <sub>14</sub>	47.07 <sup>227</sup>	48.137 <sup>56</sup>	18.43 <sup>300</sup>	32.37 <sup>2</sup>	41.87 <sup>313</sup>	44.420 <sup>38</sup>	32.68 <sup>238</sup>
Nov. 4.4	10.430 <sup>14</sup>	49.34 <sup>205</sup>	48.081 <sup>119</sup>	21.43 <sup>288</sup>	32.39 <sup>6</sup>	45.00 <sup>293</sup>	44.458 <sup>9</sup>	35.06 <sup>217</sup>
14.4	10.416 <sup>57</sup>	51.39 <sup>178</sup>	47.962 <sup>177</sup>	24.31 <sup>265</sup>	32.33 <sup>14</sup>	47.93 <sup>266</sup>	44.449 <sup>54</sup>	37.23 <sup>191</sup>
24.4	10.359 <sup>98</sup>	53.17 <sup>147</sup>	47.785 <sup>227</sup>	26.96 <sup>232</sup>	32.19 <sup>22</sup>	50.59 <sup>232</sup>	44.395 <sup>98</sup>	39.14 <sup>159</sup>
Dez. 4.4	10.261 <sup>136</sup>	54.64 <sup>111</sup>	47.558 <sup>269</sup>	29.28 <sup>191</sup>	31.97 <sup>30</sup>	52.91 <sup>190</sup>	44.297 <sup>139</sup>	40.73 <sup>124</sup>
14.3	10.125 <sup>170</sup>	55.75 <sup>72</sup>	47.289 <sup>301</sup>	31.19 <sup>141</sup>	31.67 <sup>36</sup>	54.81 <sup>143</sup>	44.158 <sup>176</sup>	41.97 <sup>84</sup>
24.3	9.955 <sup>199</sup>	56.47 <sup>30</sup>	46.988 <sup>325</sup>	32.60 <sup>88</sup>	31.31 <sup>42</sup>	56.24 <sup>91</sup>	43.982 <sup>208</sup>	42.81 <sup>42</sup>
34.3	9.756	56.77	46.663	33.48	30.89	57.15	43.774	43.23
Mittl. Ort sec $\delta$ , tg $\delta$	4.349 1.501	24.21 +1.119	44.237 1.868	34.47 -1.578	23.58 2.629	20.68 +2.431	38.170 1.565	10.55 +1.204

Mittlere Zeit Greenw.	59) $\tau$ Ceti <sup>*</sup> )		60) $\sigma$ Piscium		61) Lac. $\epsilon$ Sculptoris		62) $\zeta$ Ceti	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	1 <sup>h</sup> 40 <sup>m</sup>	-16° 21'	1 <sup>h</sup> 41 <sup>m</sup>	+8° 45'	1 <sup>h</sup> 41 <sup>m</sup>	-25° 26'	1 <sup>h</sup> 47 <sup>m</sup>	-10° 43'
Jan. 0.3	22.182 <sup>134</sup>	34.76 <sup>84</sup>	II.345 <sup>116</sup>	24.24 <sup>67</sup>	54.962 <sup>148</sup>	75.29 <sup>90</sup>	31.850 <sup>122</sup>	49.99 <sup>88</sup>
10.3	22.048 <sup>144</sup>	35.60 <sup>58</sup>	II.229 <sup>128</sup>	23.57 <sup>70</sup>	54.814 <sup>158</sup>	76.19 <sup>56</sup>	31.728 <sup>134</sup>	50.87 <sup>70</sup>
20.2	21.904 <sup>149</sup>	36.18 <sup>32</sup>	II.101 <sup>135</sup>	22.87 <sup>70</sup>	54.656 <sup>162</sup>	76.75 <sup>21</sup>	31.594 <sup>141</sup>	51.57 <sup>49</sup>
30.2	21.755 <sup>148</sup>	36.50 <sup>4</sup>	IO.966 <sup>136</sup>	22.17 <sup>68</sup>	54.494 <sup>162</sup>	76.96 <sup>15</sup>	31.453 <sup>143</sup>	52.06 <sup>26</sup>
Feb. 9.2	21.607 <sup>140</sup>	36.54 <sup>24</sup>	IO.830 <sup>130</sup>	21.49 <sup>63</sup>	54.332 <sup>153</sup>	76.81 <sup>49</sup>	31.310 <sup>137</sup>	52.32 <sup>3</sup>
19.2	21.467 <sup>126</sup>	36.30 <sup>52</sup>	IO.700 <sup>117</sup>	20.86 <sup>56</sup>	54.179 <sup>138</sup>	76.32 <sup>85</sup>	31.173 <sup>124</sup>	52.35 <sup>22</sup>
29.1	21.341 <sup>104</sup>	35.78 <sup>81</sup>	IO.583 <sup>95</sup>	20.30 <sup>45</sup>	54.041 <sup>115</sup>	75.47 <sup>117</sup>	31.049 <sup>105</sup>	52.13 <sup>46</sup>
März 10.1	21.237 <sup>75</sup>	34.97 <sup>108</sup>	IO.488 <sup>67</sup>	19.85 <sup>30</sup>	53.926 <sup>86</sup>	74.30 <sup>148</sup>	30.944 <sup>77</sup>	51.67 <sup>72</sup>
20.1	21.162 <sup>40</sup>	33.89 <sup>135</sup>	IO.421 <sup>32</sup>	19.55 <sup>13</sup>	53.840 <sup>50</sup>	72.82 <sup>177</sup>	30.867 <sup>44</sup>	50.95 <sup>97</sup>
30.0	21.122 <sup>1</sup>	32.54 <sup>159</sup>	IO.389 <sup>9</sup>	19.42 <sup>8</sup>	53.790 <sup>9</sup>	71.05 <sup>203</sup>	30.823 <sup>5</sup>	49.98 <sup>122</sup>
Apr. 9.0	21.121 <sup>42</sup>	30.95 <sup>182</sup>	IO.398 <sup>52</sup>	19.50 <sup>31</sup>	53.781 <sup>35</sup>	69.02 <sup>225</sup>	30.818 <sup>38</sup>	48.76 <sup>145</sup>
19.0	21.163 <sup>86</sup>	29.13 <sup>202</sup>	IO.450 <sup>96</sup>	19.81 <sup>54</sup>	53.816 <sup>82</sup>	66.77 <sup>243</sup>	30.856 <sup>81</sup>	47.31 <sup>166</sup>
29.0	21.249 <sup>131</sup>	27.11 <sup>218</sup>	IO.546 <sup>141</sup>	20.35 <sup>80</sup>	53.898 <sup>128</sup>	64.34 <sup>256</sup>	30.937 <sup>125</sup>	45.65 <sup>186</sup>
Mai 8.9	21.380 <sup>173</sup>	24.93 <sup>229</sup>	IO.687 <sup>184</sup>	21.15 <sup>102</sup>	54.026 <sup>173</sup>	61.78 <sup>264</sup>	31.052 <sup>168</sup>	43.79 <sup>201</sup>
18.9	21.553 <sup>212</sup>	22.64 <sup>237</sup>	IO.871 <sup>220</sup>	22.17 <sup>125</sup>	54.199 <sup>213</sup>	59.14 <sup>266</sup>	31.230 <sup>207</sup>	41.78 <sup>211</sup>
28.9	21.765 <sup>245</sup>	20.27 <sup>238</sup>	II.091 <sup>253</sup>	23.42 <sup>145</sup>	54.412 <sup>250</sup>	56.48 <sup>261</sup>	31.437 <sup>240</sup>	39.67 <sup>218</sup>
Juni 7.9	22.010 <sup>271</sup>	17.89 <sup>233</sup>	II.344 <sup>279</sup>	24.87 <sup>160</sup>	54.662 <sup>279</sup>	53.87 <sup>251</sup>	31.677 <sup>267</sup>	37.49 <sup>219</sup>
17.8	22.281 <sup>291</sup>	15.56 <sup>223</sup>	II.623 <sup>297</sup>	26.47 <sup>171</sup>	54.941 <sup>301</sup>	51.36 <sup>233</sup>	31.944 <sup>288</sup>	35.30 <sup>213</sup>
27.8	22.572 <sup>303</sup>	13.33 <sup>206</sup>	II.920 <sup>306</sup>	28.18 <sup>180</sup>	55.242 <sup>315</sup>	49.03 <sup>209</sup>	32.232 <sup>299</sup>	33.17 <sup>203</sup>
Juli 7.8	22.875 <sup>306</sup>	11.27 <sup>184</sup>	12.226 <sup>309</sup>	29.98 <sup>180</sup>	55.557 <sup>320</sup>	46.94 <sup>180</sup>	32.531 <sup>305</sup>	31.14 <sup>187</sup>
17.7	23.181 <sup>302</sup>	9.43 <sup>157</sup>	12.535 <sup>304</sup>	31.78 <sup>178</sup>	55.877 <sup>317</sup>	45.14 <sup>145</sup>	32.836 <sup>302</sup>	29.27 <sup>165</sup>
27.7	23.483 <sup>289</sup>	7.86 <sup>126</sup>	12.839 <sup>291</sup>	33.56 <sup>170</sup>	56.194 <sup>306</sup>	43.69 <sup>107</sup>	33.138 <sup>291</sup>	27.62 <sup>139</sup>
Aug. 6.7	23.772 <sup>271</sup>	6.60 <sup>91</sup>	13.130 <sup>272</sup>	35.26 <sup>158</sup>	56.500 <sup>288</sup>	42.62 <sup>65</sup>	33.429 <sup>273</sup>	26.23 <sup>108</sup>
16.7	24.043 <sup>246</sup>	5.69 <sup>54</sup>	13.402 <sup>249</sup>	36.84 <sup>142</sup>	56.788 <sup>263</sup>	41.97 <sup>22</sup>	33.702 <sup>252</sup>	25.15 <sup>77</sup>
26.6	24.289 <sup>217</sup>	5.15 <sup>17</sup>	13.651 <sup>221</sup>	38.26 <sup>123</sup>	57.051 <sup>234</sup>	41.75 <sup>21</sup>	33.954 <sup>224</sup>	24.38 <sup>42</sup>
Sept. 5.6	24.506 <sup>185</sup>	4.98 <sup>20</sup>	13.872 <sup>191</sup>	39.49 <sup>102</sup>	57.285 <sup>199</sup>	41.96 <sup>62</sup>	34.178 <sup>194</sup>	23.96 <sup>9</sup>
15.6	24.691 <sup>150</sup>	5.18 <sup>55</sup>	14.063 <sup>160</sup>	40.51 <sup>80</sup>	57.484 <sup>163</sup>	42.58 <sup>100</sup>	34.372 <sup>162</sup>	23.87 <sup>25</sup>
25.6	24.841 <sup>115</sup>	5.73 <sup>86</sup>	14.223 <sup>127</sup>	41.31 <sup>58</sup>	57.647 <sup>126</sup>	43.58 <sup>134</sup>	34.534 <sup>128</sup>	24.12 <sup>54</sup>
Okt. 5.5	24.956 <sup>80</sup>	6.59 <sup>111</sup>	14.350 <sup>96</sup>	41.89 <sup>37</sup>	57.773 <sup>88</sup>	44.92 <sup>161</sup>	34.662 <sup>96</sup>	24.66 <sup>81</sup>
15.5	25.036 <sup>46</sup>	7.70 <sup>132</sup>	14.446 <sup>64</sup>	42.26 <sup>16</sup>	57.861 <sup>50</sup>	46.53 <sup>181</sup>	34.758 <sup>62</sup>	25.47 <sup>103</sup>
25.5	25.082 <sup>14</sup>	9.02 <sup>147</sup>	14.510 <sup>35</sup>	42.42 <sup>2</sup>	57.911 <sup>15</sup>	48.34 <sup>194</sup>	34.820 <sup>32</sup>	26.50 <sup>118</sup>
Nov. 4.4	25.096 <sup>16</sup>	10.49 <sup>153</sup>	14.545 <sup>7</sup>	42.40 <sup>18</sup>	57.926 <sup>19</sup>	50.28 <sup>197</sup>	34.852 <sup>2</sup>	27.68 <sup>128</sup>
14.4	25.080 <sup>44</sup>	12.02 <sup>153</sup>	14.552 <sup>21</sup>	42.22 <sup>31</sup>	57.907 <sup>49</sup>	52.25 <sup>193</sup>	34.854 <sup>26</sup>	28.96 <sup>133</sup>
24.4	25.036 <sup>70</sup>	13.55 <sup>148</sup>	14.531 <sup>45</sup>	41.91 <sup>43</sup>	57.858 <sup>77</sup>	54.18 <sup>182</sup>	34.828 <sup>52</sup>	30.29 <sup>131</sup>
Dez. 4.4	24.966 <sup>92</sup>	15.03 <sup>135</sup>	14.486 <sup>68</sup>	41.48 <sup>52</sup>	57.781 <sup>101</sup>	56.00 <sup>163</sup>	34.776 <sup>75</sup>	31.60 <sup>125</sup>
14.3	24.874 <sup>111</sup>	16.38 <sup>119</sup>	14.418 <sup>90</sup>	40.96 <sup>60</sup>	57.680 <sup>123</sup>	57.63 <sup>138</sup>	34.701 <sup>96</sup>	32.85 <sup>114</sup>
24.3	24.763 <sup>128</sup>	17.57 <sup>98</sup>	14.328 <sup>109</sup>	40.36 <sup>65</sup>	57.557 <sup>141</sup>	59.01 <sup>110</sup>	34.605 <sup>115</sup>	33.99 <sup>100</sup>
34.3	24.635	18.55	14.219	39.71	57.416	60.11	34.490	34.99
Mittl. Ort	21.083	30.38	9.997	20.07	53.905	68.19	30.646	47.37
sec $\delta$ , tg $\delta$	1.042	-0.294	1.012	+0.154	1.107	-0.476	1.018	-0.189

\*) Die jährliche Parallaxe ( $\alpha_{31}$ ) ist bereits berücksichtigt

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	64) α Trianguli		63) ε Cassiopeiae		65) ξ Piscium		66) β Arietis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	1 <sup>h</sup> 48 <sup>m</sup>	+29° 11'	1 <sup>h</sup> 48 <sup>m</sup>	+63° 16'	1 <sup>h</sup> 49 <sup>m</sup>	+2° 47'	1 <sup>h</sup> 50 <sup>m</sup>	+20° 25'
Jan. 0.3	32.633 <sup>136</sup>	33.26 <sup>28</sup>	40.22 <sup>35</sup>	55.47 <sup>60</sup>	26.058 <sup>114</sup>	36.75 <sup>75</sup>	14.531 <sup>121</sup>	10.74 <sup>46</sup>
10.3	32.497 <sup>152</sup>	32.98 <sup>53</sup>	39.87 <sup>37</sup>	56.07 <sup>5</sup>	25.944 <sup>126</sup>	36.00 <sup>71</sup>	14.410 <sup>137</sup>	10.28 <sup>60</sup>
20.3	32.345 <sup>162</sup>	32.45 <sup>75</sup>	39.50 <sup>39</sup>	56.12 <sup>47</sup>	25.818 <sup>136</sup>	35.29 <sup>64</sup>	14.273 <sup>147</sup>	9.68 <sup>74</sup>
30.2	32.183 <sup>165</sup>	31.70 <sup>96</sup>	39.11 <sup>39</sup>	55.65 <sup>100</sup>	25.682 <sup>138</sup>	34.65 <sup>56</sup>	14.126 <sup>149</sup>	8.94 <sup>84</sup>
Feb. 9.2	32.018 <sup>158</sup>	30.74 <sup>111</sup>	38.72 <sup>36</sup>	54.65 <sup>146</sup>	25.544 <sup>133</sup>	34.09 <sup>45</sup>	13.977 <sup>144</sup>	8.10 <sup>92</sup>
19.2	31.860 <sup>143</sup>	29.63 <sup>124</sup>	38.36 <sup>33</sup>	53.19 <sup>188</sup>	25.411 <sup>121</sup>	33.64 <sup>32</sup>	13.833 <sup>131</sup>	7.18 <sup>96</sup>
29.1	31.717 <sup>118</sup>	28.39 <sup>130</sup>	38.03 <sup>28</sup>	51.31 <sup>222</sup>	25.290 <sup>100</sup>	33.32 <sup>17</sup>	13.702 <sup>109</sup>	6.22 <sup>95</sup>
März 10.1	31.599 <sup>85</sup>	27.09 <sup>130</sup>	37.75 <sup>20</sup>	49.09 <sup>246</sup>	25.190 <sup>75</sup>	33.15 <sup>1</sup>	13.593 <sup>79</sup>	5.27 <sup>88</sup>
20.1	31.514 <sup>45</sup>	25.79 <sup>124</sup>	37.55 <sup>12</sup>	46.63 <sup>259</sup>	25.115 <sup>40</sup>	33.16 <sup>21</sup>	13.514 <sup>42</sup>	4.39 <sup>77</sup>
30.1	31.469 <sup>2</sup>	24.55 <sup>111</sup>	37.43 <sup>3</sup>	44.04 <sup>262</sup>	25.075 <sup>1</sup>	33.37 <sup>42</sup>	13.472 <sup>1</sup>	3.62 <sup>61</sup>
Apr. 9.0	31.471 <sup>51</sup>	23.44 <sup>92</sup>	37.40 <sup>7</sup>	41.42 <sup>255</sup>	25.074 <sup>41</sup>	33.79 <sup>66</sup>	13.473 <sup>47</sup>	3.01 <sup>42</sup>
19.0	31.522 <sup>103</sup>	22.52 <sup>69</sup>	37.47 <sup>16</sup>	38.87 <sup>238</sup>	25.115 <sup>86</sup>	34.45 <sup>88</sup>	13.520 <sup>94</sup>	2.59 <sup>18</sup>
29.0	31.625 <sup>154</sup>	21.83 <sup>43</sup>	37.63 <sup>25</sup>	36.49 <sup>212</sup>	25.201 <sup>129</sup>	35.33 <sup>111</sup>	13.614 <sup>143</sup>	2.41 <sup>9</sup>
Mai 9.0	31.779 <sup>200</sup>	21.40 <sup>12</sup>	37.88 <sup>34</sup>	34.37 <sup>179</sup>	25.330 <sup>172</sup>	36.44 <sup>133</sup>	13.757 <sup>187</sup>	2.50 <sup>35</sup>
18.9	31.979 <sup>244</sup>	21.28 <sup>18</sup>	38.22 <sup>41</sup>	32.58 <sup>140</sup>	25.502 <sup>210</sup>	37.77 <sup>151</sup>	13.944 <sup>227</sup>	2.85 <sup>63</sup>
28.9	32.223 <sup>279</sup>	21.46 <sup>50</sup>	38.63 <sup>48</sup>	31.18 <sup>97</sup>	25.712 <sup>243</sup>	39.28 <sup>166</sup>	14.171 <sup>262</sup>	3.48 <sup>90</sup>
Juni 7.9	32.502 <sup>308</sup>	21.96 <sup>81</sup>	39.11 <sup>53</sup>	30.21 <sup>50</sup>	25.955 <sup>270</sup>	40.94 <sup>178</sup>	14.433 <sup>289</sup>	4.38 <sup>113</sup>
17.8	32.810 <sup>329</sup>	22.77 <sup>108</sup>	39.64 <sup>56</sup>	29.71 <sup>3</sup>	26.225 <sup>290</sup>	42.72 <sup>185</sup>	14.722 <sup>309</sup>	5.51 <sup>135</sup>
27.8	33.139 <sup>339</sup>	23.85 <sup>132</sup>	40.20 <sup>59</sup>	29.68 <sup>44</sup>	26.515 <sup>300</sup>	44.57 <sup>186</sup>	15.031 <sup>320</sup>	6.86 <sup>152</sup>
Juli 7.8	33.478 <sup>343</sup>	25.17 <sup>155</sup>	40.79 <sup>59</sup>	30.12 <sup>90</sup>	26.815 <sup>305</sup>	46.43 <sup>182</sup>	15.351 <sup>323</sup>	8.38 <sup>165</sup>
17.8	33.821 <sup>337</sup>	26.72 <sup>171</sup>	41.38 <sup>58</sup>	31.02 <sup>134</sup>	27.120 <sup>301</sup>	48.25 <sup>174</sup>	15.674 <sup>319</sup>	10.03 <sup>174</sup>
27.7	34.158 <sup>325</sup>	28.43 <sup>183</sup>	41.96 <sup>56</sup>	32.36 <sup>173</sup>	27.421 <sup>290</sup>	49.99 <sup>160</sup>	15.993 <sup>307</sup>	11.77 <sup>178</sup>
Aug. 6.7	34.483 <sup>305</sup>	30.26 <sup>191</sup>	42.52 <sup>53</sup>	34.09 <sup>209</sup>	27.711 <sup>273</sup>	51.59 <sup>143</sup>	16.300 <sup>289</sup>	13.55 <sup>177</sup>
16.7	34.788 <sup>280</sup>	32.17 <sup>193</sup>	43.05 <sup>49</sup>	36.18 <sup>240</sup>	27.984 <sup>250</sup>	53.02 <sup>121</sup>	16.589 <sup>266</sup>	15.32 <sup>172</sup>
26.6	35.068 <sup>252</sup>	34.10 <sup>193</sup>	43.54 <sup>45</sup>	38.58 <sup>266</sup>	28.234 <sup>225</sup>	54.23 <sup>98</sup>	16.855 <sup>239</sup>	17.04 <sup>164</sup>
Sept. 5.6	35.320 <sup>219</sup>	36.03 <sup>188</sup>	43.99 <sup>38</sup>	41.24 <sup>286</sup>	28.459 <sup>195</sup>	55.21 <sup>73</sup>	17.094 <sup>208</sup>	18.68 <sup>151</sup>
15.6	35.539 <sup>186</sup>	37.91 <sup>180</sup>	44.37 <sup>33</sup>	44.10 <sup>301</sup>	28.654 <sup>165</sup>	55.94 <sup>47</sup>	17.302 <sup>177</sup>	20.19 <sup>137</sup>
25.6	35.725 <sup>152</sup>	39.71 <sup>168</sup>	44.70 <sup>26</sup>	47.11 <sup>310</sup>	28.819 <sup>132</sup>	56.41 <sup>23</sup>	17.479 <sup>144</sup>	21.56 <sup>122</sup>
Okt. 5.5	35.877 <sup>117</sup>	41.39 <sup>154</sup>	44.96 <sup>20</sup>	50.21 <sup>312</sup>	28.951 <sup>102</sup>	56.64 <sup>1</sup>	17.623 <sup>112</sup>	22.78 <sup>103</sup>
15.5	35.994 <sup>83</sup>	42.93 <sup>138</sup>	45.16 <sup>12</sup>	53.33 <sup>307</sup>	29.053 <sup>70</sup>	56.63 <sup>22</sup>	17.735 <sup>80</sup>	23.81 <sup>87</sup>
25.5	36.077 <sup>49</sup>	44.31 <sup>121</sup>	45.28 <sup>6</sup>	56.40 <sup>297</sup>	29.123 <sup>40</sup>	56.41 <sup>40</sup>	17.815 <sup>49</sup>	24.68 <sup>68</sup>
Nov. 4.5	36.126 <sup>17</sup>	45.52 <sup>102</sup>	45.34 <sup>2</sup>	59.37 <sup>279</sup>	29.163 <sup>13</sup>	56.01 <sup>54</sup>	17.864 <sup>18</sup>	25.36 <sup>50</sup>
14.4	36.143 <sup>15</sup>	46.54 <sup>81</sup>	45.32 <sup>8</sup>	62.16 <sup>254</sup>	29.176 <sup>15</sup>	55.47 <sup>65</sup>	17.882 <sup>11</sup>	25.86 <sup>32</sup>
24.4	36.128 <sup>46</sup>	47.35 <sup>60</sup>	45.24 <sup>16</sup>	64.70 <sup>222</sup>	29.161 <sup>41</sup>	54.82 <sup>72</sup>	17.871 <sup>39</sup>	26.18 <sup>15</sup>
Dez. 4.4	36.082 <sup>75</sup>	47.95 <sup>36</sup>	45.08 <sup>21</sup>	66.92 <sup>184</sup>	29.120 <sup>65</sup>	54.10 <sup>76</sup>	17.832 <sup>66</sup>	26.33 <sup>3</sup>
14.3	36.007 <sup>102</sup>	48.31 <sup>11</sup>	44.87 <sup>28</sup>	68.76 <sup>141</sup>	29.055 <sup>86</sup>	53.34 <sup>78</sup>	17.766 <sup>91</sup>	26.30 <sup>19</sup>
24.3	35.905 <sup>126</sup>	48.42 <sup>13</sup>	44.59 <sup>32</sup>	70.17 <sup>91</sup>	28.969 <sup>106</sup>	52.56 <sup>77</sup>	17.675 <sup>112</sup>	26.11 <sup>37</sup>
34.3	35.779	48.29	44.27	71.08	28.863	51.79	17.563	25.74
Mittl. Ort sec δ, tg δ	30.966 1.145	22.74 +0.559	37.31 2.224	36.57 +1.986	24.723 1.001	34.91 +0.049	12.989 1.067	3.06 +0.372

Mittlere Zeit Greenw.	67) $\psi$ Phoenicis		68) $\chi$ Eridani		71) $\upsilon$ Ceti		72) $\alpha$ Hydri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$1^h 50^m$	$-46^\circ 41'$	$1^h 52^m$	$-51^\circ 59'$	$1^h 56^m$	$-21^\circ 27'$	$1^h 56^m$	$-61^\circ 57'$
Jan. 0.3	27.325 <sup>235</sup>	52.18 <sup>86</sup>	51.589 <sup>273</sup>	98.99 <sup>83</sup>	15.303 <sup>137</sup>	60.11 <sup>98</sup>	15.79 <sup>40</sup>	47.47 <sup>74</sup>
10.3	27.090 <sup>247</sup>	53.04 <sup>37</sup>	51.316 <sup>286</sup>	99.82 <sup>29</sup>	15.166 <sup>150</sup>	61.09 <sup>69</sup>	15.39 <sup>41</sup>	48.21 <sup>17</sup>
20.3	26.843 <sup>251</sup>	53.41 <sup>15</sup>	51.030 <sup>289</sup>	100.11 <sup>24</sup>	15.016 <sup>158</sup>	61.78 <sup>37</sup>	14.98 <sup>41</sup>	48.38 <sup>41</sup>
30.2	26.592 <sup>247</sup>	53.26 <sup>66</sup>	50.741 <sup>285</sup>	99.87 <sup>78</sup>	14.858 <sup>159</sup>	62.15 <sup>5</sup>	14.57 <sup>41</sup>	47.97 <sup>98</sup>
Feb. 9.2	26.345 <sup>234</sup>	52.60 <sup>113</sup>	50.456 <sup>270</sup>	99.09 <sup>128</sup>	14.699 <sup>155</sup>	62.20 <sup>29</sup>	14.16 <sup>38</sup>	46.99 <sup>151</sup>
19.2	26.111 <sup>213</sup>	51.47 <sup>159</sup>	50.186 <sup>246</sup>	97.81 <sup>175</sup>	14.544 <sup>142</sup>	61.91 <sup>60</sup>	13.78 <sup>35</sup>	45.48 <sup>200</sup>
29.1	25.898 <sup>184</sup>	49.88 <sup>200</sup>	49.940 <sup>213</sup>	96.06 <sup>218</sup>	14.402 <sup>122</sup>	61.31 <sup>93</sup>	13.43 <sup>30</sup>	43.48 <sup>244</sup>
März 10.1	25.714 <sup>147</sup>	47.88 <sup>237</sup>	49.727 <sup>172</sup>	93.88 <sup>254</sup>	14.280 <sup>95</sup>	60.38 <sup>124</sup>	13.13 <sup>25</sup>	41.04 <sup>281</sup>
20.1	25.567 <sup>102</sup>	45.51 <sup>268</sup>	49.555 <sup>122</sup>	91.34 <sup>286</sup>	14.185 <sup>61</sup>	59.14 <sup>152</sup>	12.88 <sup>19</sup>	38.23 <sup>312</sup>
30.1	25.465 <sup>51</sup>	42.83 <sup>293</sup>	49.433 <sup>67</sup>	88.48 <sup>312</sup>	14.124 <sup>22</sup>	57.62 <sup>178</sup>	12.69 <sup>12</sup>	35.11 <sup>336</sup>
Apr. 9.0	25.414 <sup>4</sup>	39.90 <sup>313</sup>	49.366 <sup>7</sup>	85.36 <sup>330</sup>	14.102 <sup>22</sup>	55.84 <sup>202</sup>	12.57 <sup>4</sup>	31.75 <sup>352</sup>
19.0	25.418 <sup>61</sup>	36.77 <sup>325</sup>	49.359 <sup>56</sup>	82.06 <sup>341</sup>	14.124 <sup>68</sup>	53.82 <sup>222</sup>	12.53 <sup>4</sup>	28.23 <sup>361</sup>
29.0	25.479 <sup>119</sup>	33.52 <sup>332</sup>	49.415 <sup>119</sup>	78.65 <sup>345</sup>	14.192 <sup>114</sup>	51.60 <sup>237</sup>	12.57 <sup>11</sup>	24.62 <sup>362</sup>
Mai 9.0	25.598 <sup>176</sup>	30.20 <sup>329</sup>	49.534 <sup>182</sup>	75.20 <sup>342</sup>	14.306 <sup>158</sup>	49.23 <sup>249</sup>	12.68 <sup>20</sup>	21.00 <sup>354</sup>
18.9	25.774 <sup>229</sup>	26.91 <sup>321</sup>	49.716 <sup>240</sup>	71.78 <sup>330</sup>	14.464 <sup>199</sup>	46.74 <sup>254</sup>	12.88 <sup>27</sup>	17.46 <sup>338</sup>
28.9	26.003 <sup>276</sup>	23.70 <sup>303</sup>	49.956 <sup>293</sup>	68.48 <sup>310</sup>	14.663 <sup>236</sup>	44.20 <sup>253</sup>	13.15 <sup>35</sup>	14.08 <sup>315</sup>
Juni 7.9	26.279 <sup>316</sup>	20.67 <sup>279</sup>	50.249 <sup>338</sup>	65.38 <sup>283</sup>	14.899 <sup>266</sup>	41.67 <sup>247</sup>	13.50 <sup>40</sup>	10.93 <sup>284</sup>
17.8	26.595 <sup>348</sup>	17.88 <sup>247</sup>	50.587 <sup>374</sup>	62.55 <sup>250</sup>	15.165 <sup>290</sup>	39.20 <sup>233</sup>	13.90 <sup>44</sup>	8.09 <sup>245</sup>
27.8	26.943 <sup>370</sup>	15.41 <sup>209</sup>	50.961 <sup>400</sup>	60.05 <sup>208</sup>	15.455 <sup>305</sup>	36.87 <sup>213</sup>	14.34 <sup>49</sup>	5.64 <sup>200</sup>
Juli 7.8	27.313 <sup>382</sup>	13.32 <sup>166</sup>	51.361 <sup>415</sup>	57.97 <sup>161</sup>	15.760 <sup>312</sup>	34.74 <sup>188</sup>	14.83 <sup>50</sup>	3.64 <sup>149</sup>
17.8	27.695 <sup>384</sup>	11.66 <sup>116</sup>	51.776 <sup>419</sup>	56.36 <sup>111</sup>	16.072 <sup>311</sup>	32.86 <sup>157</sup>	15.33 <sup>52</sup>	2.15 <sup>95</sup>
27.7	28.079 <sup>376</sup>	10.50 <sup>65</sup>	52.195 <sup>411</sup>	55.25 <sup>55</sup>	16.383 <sup>303</sup>	31.29 <sup>122</sup>	15.85 <sup>51</sup>	1.20 <sup>36</sup>
Aug. 6.7	28.455 <sup>357</sup>	9.85 <sup>10</sup>	52.606 <sup>392</sup>	54.70 <sup>0</sup>	16.686 <sup>287</sup>	30.07 <sup>84</sup>	16.36 <sup>49</sup>	0.84 <sup>23</sup>
16.7	28.812 <sup>329</sup>	9.75 <sup>44</sup>	52.998 <sup>363</sup>	54.70 <sup>57</sup>	16.973 <sup>266</sup>	29.23 <sup>42</sup>	16.85 <sup>46</sup>	1.07 <sup>81</sup>
26.6	29.141 <sup>293</sup>	10.19 <sup>96</sup>	53.361 <sup>324</sup>	55.27 <sup>111</sup>	17.239 <sup>238</sup>	28.81 <sup>1</sup>	17.31 <sup>41</sup>	1.88 <sup>138</sup>
Sept. 5.6	29.434 <sup>251</sup>	11.15 <sup>146</sup>	53.685 <sup>278</sup>	56.38 <sup>162</sup>	17.477 <sup>208</sup>	28.80 <sup>39</sup>	17.72 <sup>35</sup>	3.26 <sup>189</sup>
15.6	29.685 <sup>204</sup>	12.61 <sup>190</sup>	53.963 <sup>225</sup>	58.00 <sup>206</sup>	17.685 <sup>173</sup>	29.19 <sup>78</sup>	18.07 <sup>28</sup>	5.15 <sup>234</sup>
25.6	29.889 <sup>153</sup>	14.51 <sup>227</sup>	54.188 <sup>169</sup>	60.06 <sup>243</sup>	17.858 <sup>138</sup>	29.97 <sup>112</sup>	18.35 <sup>20</sup>	7.49 <sup>270</sup>
Okt. 5.5	30.042 <sup>100</sup>	16.78 <sup>254</sup>	54.357 <sup>109</sup>	62.49 <sup>271</sup>	17.996 <sup>103</sup>	31.09 <sup>140</sup>	18.55 <sup>13</sup>	10.19 <sup>297</sup>
15.5	30.142 <sup>48</sup>	19.32 <sup>272</sup>	54.466 <sup>50</sup>	65.20 <sup>288</sup>	18.099 <sup>68</sup>	32.49 <sup>163</sup>	18.68 <sup>5</sup>	13.16 <sup>313</sup>
25.5	30.190 <sup>3</sup>	22.04 <sup>279</sup>	54.516 <sup>8</sup>	68.08 <sup>294</sup>	18.167 <sup>33</sup>	34.12 <sup>177</sup>	18.73 <sup>3</sup>	16.29 <sup>315</sup>
Nov. 4.5	30.187 <sup>52</sup>	24.83 <sup>276</sup>	54.508 <sup>64</sup>	71.02 <sup>288</sup>	18.200 <sup>1</sup>	35.89 <sup>185</sup>	18.70 <sup>11</sup>	19.44 <sup>307</sup>
14.4	30.135 <sup>96</sup>	27.59 <sup>261</sup>	54.444 <sup>115</sup>	73.90 <sup>271</sup>	18.201 <sup>30</sup>	37.74 <sup>184</sup>	18.59 <sup>19</sup>	22.51 <sup>286</sup>
24.4	30.039 <sup>137</sup>	30.20 <sup>236</sup>	54.329 <sup>162</sup>	76.61 <sup>244</sup>	18.171 <sup>59</sup>	39.58 <sup>176</sup>	18.40 <sup>24</sup>	25.37 <sup>254</sup>
Dez. 4.4	29.902 <sup>172</sup>	32.56 <sup>204</sup>	54.167 <sup>202</sup>	79.05 <sup>209</sup>	18.112 <sup>85</sup>	41.34 <sup>162</sup>	18.16 <sup>30</sup>	27.91 <sup>213</sup>
14.3	29.730 <sup>201</sup>	34.60 <sup>163</sup>	53.965 <sup>235</sup>	81.14 <sup>165</sup>	18.027 <sup>108</sup>	42.96 <sup>141</sup>	17.86 <sup>35</sup>	30.04 <sup>165</sup>
24.3	29.529 <sup>225</sup>	36.23 <sup>117</sup>	53.730 <sup>261</sup>	82.79 <sup>116</sup>	17.919 <sup>128</sup>	44.37 <sup>116</sup>	17.51 <sup>37</sup>	31.69 <sup>111</sup>
34.3	29.304	37.40	53.469	83.95	17.791	45.53	17.14	32.80
Mittl. Ort sec $\delta$ , tg $\delta$	26.374 1.458	39.41 -1.061	50.661 1.625	85.12 -1.280	14.113 1.075	53.86 -0.393	14.91 2.127	31.93 -1.878

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	70) $\delta$ Cassiopeiae		73) $\gamma$ Andromedae		74) $\alpha$ Arietis		75) $\beta$ Trianguli	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$1^h 56^m$	$+72^\circ 1'$	$1^h 58^m$	$+41^\circ 56'$	$2^h 2^m$	$+23^\circ 5'$	$2^h 4^m$	$+34^\circ 36'$
Jan. 0.3	38.32	85.89	60.880	60.75	41.201	13.24	48.504	45.62
10.3	37.79	86.83	60.712	60.87	41.081	12.89	48.363	45.58
20.3	37.20	87.18	60.523	60.62	40.942	12.36	48.200	45.25
30.2	36.60	86.95	60.319	60.02	40.791	11.68	48.023	44.64
Feb. 9.2	35.99	86.13	60.111	59.08	40.634	10.87	47.841	43.77
19.2	35.42	84.78	59.910	57.85	40.480	9.95	47.662	42.67
29.2	34.90	82.94	59.725	56.37	40.339	8.96	47.496	41.39
März 10.1	34.46	80.70	59.569	54.71	40.218	7.95	47.355	39.99
20.1	34.12	78.14	59.452	52.93	40.126	6.97	47.247	38.53
30.1	33.91	75.39	59.382	51.13	40.071	6.07	47.181	37.07
Apr. 9.0	33.82	72.54	59.367	49.39	40.059	5.31	47.163	35.70
19.0	33.86	69.71	59.410	47.77	40.094	4.73	47.198	34.46
29.0	34.05	67.00	59.512	46.34	40.179	4.36	47.288	33.43
Mai 9.0	34.37	64.52	59.674	45.18	40.311	4.25	47.432	32.65
18.9	34.81	62.35	59.892	44.32	40.490	4.41	47.627	32.15
28.9	35.36	60.55	60.159	43.80	40.712	4.84	47.868	31.97
Juni 7.9	36.00	59.19	60.470	43.65	40.970	5.54	48.150	32.11
17.9	36.72	58.29	60.814	43.85	41.257	6.49	48.465	32.58
27.8	37.49	57.89	61.183	44.42	41.567	7.68	48.803	33.35
Juli 7.8	38.30	57.99	61.567	45.33	41.889	9.06	49.156	34.41
17.8	39.12	58.59	61.957	46.56	42.217	10.60	49.515	35.73
27.7	39.94	59.66	62.343	48.07	42.543	12.25	49.871	37.26
Aug. 6.7	40.73	61.19	62.716	49.82	42.858	13.97	50.217	38.98
16.7	41.49	63.13	63.070	51.77	43.158	15.71	50.546	40.83
26.7	42.19	65.44	63.399	53.87	43.435	17.43	50.853	42.77
Sept. 5.6	42.83	68.08	63.696	56.07	43.687	19.09	51.131	44.75
15.6	43.39	70.99	63.959	58.33	43.910	20.66	51.378	46.74
25.6	43.87	74.10	64.185	60.61	44.102	22.12	51.592	48.69
Okt. 5.6	44.26	77.36	64.372	62.86	44.262	23.43	51.771	50.58
15.5	44.55	80.70	64.520	65.05	44.390	24.59	51.914	52.37
25.5	44.74	84.05	64.627	67.13	44.485	25.59	52.022	54.03
Nov. 4.5	44.82	87.34	64.695	69.06	44.549	26.41	52.094	55.55
14.4	44.79	90.48	64.722	70.82	44.581	27.06	52.130	56.89
24.4	44.66	93.40	64.710	72.36	44.583	27.54	52.130	58.03
Dez. 4.4	44.42	96.02	64.659	73.64	44.554	27.85	52.096	58.95
14.4	44.09	98.26	64.571	74.64	44.496	27.97	52.028	59.63
24.3	43.66	100.04	64.447	75.31	44.411	27.91	51.928	60.04
34.3	43.15	101.31	64.293	75.64	44.302	27.66	51.799	60.17
Mittl. Ort	34.23	66.20	58.861	47.15	39.543	5.30	46.621	34.35
sec $\delta$ , tg $\delta$	3.242	+3.084	1.344	+0.899	1.087	+0.426	1.215	+0.690

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.
1920	$2^h 8^m$	$+66^\circ 8'$	$2^h 9^m$	$-31^\circ 5'$	$2^h 12^m$	$-6^\circ 47'$	$2^h 23^m$	$+8^\circ 6'$
Jan. 0.3	14.44 <sup>38</sup>	79.42 <sup>91</sup>	24.316 <sup>159</sup>	64.47 <sup>111</sup>	60.887 <sup>113</sup>	27.09 <sup>93</sup>	55.762 <sup>104</sup>	9.96 <sup>66</sup>
10.3	14.06 <sup>41</sup>	80.33 <sup>36</sup>	24.157 <sup>175</sup>	65.58 <sup>73</sup>	60.774 <sup>129</sup>	28.02 <sup>78</sup>	55.658 <sup>123</sup>	9.30 <sup>65</sup>
20.3	13.65 <sup>44</sup>	80.69 <sup>19</sup>	23.982 <sup>184</sup>	66.31 <sup>33</sup>	60.645 <sup>142</sup>	28.80 <sup>61</sup>	55.535 <sup>139</sup>	8.65 <sup>65</sup>
30.2	13.21 <sup>45</sup>	80.50 <sup>72</sup>	23.798 <sup>188</sup>	66.64 <sup>9</sup>	60.503 <sup>147</sup>	29.41 <sup>42</sup>	55.396 <sup>147</sup>	8.00 <sup>61</sup>
Feb. 9.2	12.76 <sup>43</sup>	79.78 <sup>124</sup>	23.610 <sup>184</sup>	66.55 <sup>49</sup>	60.356 <sup>147</sup>	29.83 <sup>21</sup>	55.249 <sup>149</sup>	7.39 <sup>56</sup>
19.2	12.33 <sup>40</sup>	78.54 <sup>169</sup>	23.426 <sup>172</sup>	66.06 <sup>88</sup>	60.209 <sup>137</sup>	30.04 <sup>1</sup>	55.100 <sup>141</sup>	6.83 <sup>48</sup>
29.2	11.93 <sup>34</sup>	76.85 <sup>208</sup>	23.254 <sup>151</sup>	65.18 <sup>127</sup>	60.072 <sup>122</sup>	30.03 <sup>23</sup>	54.959 <sup>127</sup>	6.35 <sup>38</sup>
März 10.1	11.59 <sup>27</sup>	74.77 <sup>238</sup>	23.103 <sup>124</sup>	63.91 <sup>161</sup>	59.950 <sup>96</sup>	29.80 <sup>46</sup>	54.832 <sup>102</sup>	5.97 <sup>26</sup>
20.1	11.32 <sup>18</sup>	72.39 <sup>257</sup>	22.979 <sup>88</sup>	62.30 <sup>193</sup>	59.854 <sup>66</sup>	29.34 <sup>70</sup>	54.730 <sup>71</sup>	5.71 <sup>9</sup>
30.1	11.14 <sup>8</sup>	69.82 <sup>266</sup>	22.891 <sup>47</sup>	60.37 <sup>222</sup>	59.788 <sup>28</sup>	28.64 <sup>94</sup>	54.659 <sup>33</sup>	5.62 <sup>9</sup>
Apr. 9.0	11.06 <sup>2</sup>	67.16 <sup>265</sup>	22.844 <sup>2</sup>	58.15 <sup>245</sup>	59.760 <sup>14</sup>	27.70 <sup>117</sup>	54.626 <sup>9</sup>	5.71 <sup>29</sup>
19.0	11.08 <sup>13</sup>	64.51 <sup>253</sup>	22.842 <sup>47</sup>	55.70 <sup>265</sup>	59.774 <sup>58</sup>	26.53 <sup>140</sup>	54.635 <sup>55</sup>	6.00 <sup>50</sup>
29.0	11.21 <sup>23</sup>	61.98 <sup>232</sup>	22.889 <sup>96</sup>	53.05 <sup>279</sup>	59.832 <sup>102</sup>	25.13 <sup>160</sup>	54.690 <sup>101</sup>	6.50 <sup>73</sup>
Mai 9.0	11.44 <sup>33</sup>	59.66 <sup>203</sup>	22.985 <sup>145</sup>	50.26 <sup>286</sup>	59.934 <sup>146</sup>	23.53 <sup>178</sup>	54.791 <sup>145</sup>	7.23 <sup>94</sup>
18.9	11.77 <sup>42</sup>	57.63 <sup>168</sup>	23.130 <sup>190</sup>	47.40 <sup>288</sup>	60.080 <sup>187</sup>	21.75 <sup>192</sup>	54.936 <sup>186</sup>	8.17 <sup>115</sup>
28.9	12.19 <sup>50</sup>	55.95 <sup>128</sup>	23.320 <sup>231</sup>	44.52 <sup>283</sup>	60.267 <sup>222</sup>	19.83 <sup>201</sup>	55.122 <sup>223</sup>	9.32 <sup>133</sup>
Juni 7.9	12.69 <sup>55</sup>	54.67 <sup>82</sup>	23.551 <sup>265</sup>	41.69 <sup>269</sup>	60.489 <sup>253</sup>	17.82 <sup>206</sup>	55.345 <sup>255</sup>	10.65 <sup>148</sup>
17.9	13.24 <sup>61</sup>	53.85 <sup>37</sup>	23.816 <sup>294</sup>	39.00 <sup>251</sup>	60.742 <sup>276</sup>	15.76 <sup>205</sup>	55.600 <sup>278</sup>	12.13 <sup>159</sup>
27.8	13.85 <sup>63</sup>	53.48 <sup>11</sup>	24.110 <sup>313</sup>	36.49 <sup>224</sup>	61.018 <sup>291</sup>	13.71 <sup>199</sup>	55.878 <sup>294</sup>	13.72 <sup>166</sup>
Juli 7.8	14.48 <sup>65</sup>	53.59 <sup>57</sup>	24.423 <sup>324</sup>	34.25 <sup>192</sup>	61.309 <sup>300</sup>	11.72 <sup>187</sup>	56.172 <sup>304</sup>	15.38 <sup>168</sup>
17.8	15.13 <sup>64</sup>	54.16 <sup>102</sup>	24.747 <sup>328</sup>	32.33 <sup>154</sup>	61.609 <sup>300</sup>	9.85 <sup>170</sup>	56.476 <sup>305</sup>	17.06 <sup>165</sup>
27.7	15.77 <sup>64</sup>	55.18 <sup>145</sup>	25.075 <sup>322</sup>	30.79 <sup>112</sup>	61.909 <sup>294</sup>	8.15 <sup>148</sup>	56.781 <sup>299</sup>	18.71 <sup>157</sup>
Aug. 6.7	16.41 <sup>60</sup>	56.63 <sup>183</sup>	25.397 <sup>308</sup>	29.67 <sup>66</sup>	62.203 <sup>281</sup>	6.67 <sup>121</sup>	57.080 <sup>287</sup>	20.28 <sup>146</sup>
16.7	17.01 <sup>57</sup>	58.46 <sup>218</sup>	25.705 <sup>288</sup>	29.01 <sup>19</sup>	62.484 <sup>263</sup>	5.46 <sup>93</sup>	57.367 <sup>271</sup>	21.74 <sup>130</sup>
26.7	17.58 <sup>52</sup>	60.64 <sup>247</sup>	25.993 <sup>261</sup>	28.82 <sup>29</sup>	62.747 <sup>239</sup>	4.53 <sup>60</sup>	57.638 <sup>248</sup>	23.04 <sup>111</sup>
Sept. 5.6	18.10 <sup>47</sup>	63.11 <sup>272</sup>	26.254 <sup>230</sup>	29.11 <sup>76</sup>	62.986 <sup>212</sup>	3.93 <sup>28</sup>	57.886 <sup>224</sup>	24.15 <sup>90</sup>
15.6	18.57 <sup>40</sup>	65.83 <sup>291</sup>	26.484 <sup>194</sup>	29.87 <sup>119</sup>	63.198 <sup>183</sup>	3.65 <sup>3</sup>	58.110 <sup>196</sup>	25.05 <sup>68</sup>
25.6	18.97 <sup>33</sup>	68.74 <sup>305</sup>	26.678 <sup>157</sup>	31.06 <sup>156</sup>	63.381 <sup>153</sup>	3.68 <sup>34</sup>	58.306 <sup>167</sup>	25.73 <sup>45</sup>
Okt. 5.6	19.30 <sup>27</sup>	71.79 <sup>312</sup>	26.835 <sup>118</sup>	32.62 <sup>188</sup>	63.534 <sup>121</sup>	4.02 <sup>60</sup>	58.473 <sup>138</sup>	26.18 <sup>24</sup>
15.5	19.57 <sup>18</sup>	74.91 <sup>313</sup>	26.953 <sup>78</sup>	34.50 <sup>211</sup>	63.655 <sup>90</sup>	4.62 <sup>84</sup>	58.611 <sup>108</sup>	26.42 <sup>4</sup>
25.5	19.75 <sup>11</sup>	78.04 <sup>306</sup>	27.031 <sup>40</sup>	36.61 <sup>226</sup>	63.745 <sup>59</sup>	5.46 <sup>101</sup>	58.719 <sup>78</sup>	26.46 <sup>14</sup>
Nov. 4.5	19.86 <sup>3</sup>	81.10 <sup>294</sup>	27.071 <sup>2</sup>	38.87 <sup>232</sup>	63.804 <sup>30</sup>	6.47 <sup>114</sup>	58.797 <sup>49</sup>	26.32 <sup>28</sup>
14.4	19.89 <sup>6</sup>	84.04 <sup>273</sup>	27.073 <sup>34</sup>	41.19 <sup>228</sup>	63.834 <sup>0</sup>	7.61 <sup>121</sup>	58.846 <sup>19</sup>	26.04 <sup>41</sup>
24.4	19.83 <sup>13</sup>	86.77 <sup>246</sup>	27.039 <sup>66</sup>	43.47 <sup>215</sup>	63.834 <sup>28</sup>	8.82 <sup>124</sup>	58.865 <sup>11</sup>	25.63 <sup>50</sup>
Dez. 4.4	19.70 <sup>21</sup>	89.23 <sup>210</sup>	26.973 <sup>97</sup>	45.62 <sup>195</sup>	63.806 <sup>55</sup>	10.06 <sup>120</sup>	58.854 <sup>38</sup>	25.13 <sup>57</sup>
14.4	19.49 <sup>29</sup>	91.33 <sup>169</sup>	26.876 <sup>125</sup>	47.57 <sup>167</sup>	63.751 <sup>79</sup>	11.26 <sup>113</sup>	58.816 <sup>67</sup>	24.56 <sup>62</sup>
24.3	19.20 <sup>34</sup>	93.02 <sup>122</sup>	26.751 <sup>148</sup>	49.24 <sup>134</sup>	63.672 <sup>103</sup>	12.39 <sup>101</sup>	58.749 <sup>91</sup>	23.94 <sup>65</sup>
34.3	18.86	94.24	26.603	50.58	63.569	13.40	58.658	23.29
Mittl. Ort sec $\delta$ , $\mu$ , $\xi$	10.98 2.473	61.32 +2.262	23.134 1.168	55.20 -0.603	59.510 1.007	24.96 -0.119	54.181 1.010	7.73 +0.142

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	87) 36 H. Cassiopeiae		90) μ Hydri		89) ν Arietis		91) δ Ceti	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	2 <sup>h</sup> 30 <sup>m</sup>	+72° 28'	2 <sup>h</sup> 33 <sup>m</sup>	-79° 27'	2 <sup>h</sup> 34 <sup>m</sup>	+21° 36'	2 <sup>h</sup> 35 <sup>m</sup>	-0° 0'
Jan. 0.3	28.34 <sub>50</sub>	27.90 <sub>133</sub>	21.53 <sub>117</sub>	47.85 <sub>100</sub>	17.987 <sub>106</sub>	64.29 <sub>27</sub>	24.358 <sub>101</sub>	58.10 <sub>86</sub>
10.3	27.84 <sub>57</sub>	29.23 <sub>79</sub>	20.36 <sub>122</sub>	48.85 <sub>38</sub>	17.881 <sub>130</sub>	64.02 <sub>41</sub>	24.257 <sub>122</sub>	58.96 <sub>77</sub>
20.3	27.27 <sub>61</sub>	30.02 <sub>22</sub>	19.14 <sub>125</sub>	49.23 <sub>22</sub>	17.751 <sub>149</sub>	63.61 <sub>55</sub>	24.135 <sub>139</sub>	59.73 <sub>66</sub>
30.3	26.66 <sub>63</sub>	30.24 <sub>36</sub>	17.89 <sub>125</sub>	49.01 <sub>82</sub>	17.602 <sub>160</sub>	63.06 <sub>65</sub>	23.996 <sub>149</sub>	60.39 <sub>54</sub>
Feb. 9.2	26.03 <sub>63</sub>	29.88 <sub>93</sub>	16.64 <sub>120</sub>	48.19 <sub>138</sub>	17.442 <sub>164</sub>	62.41 <sub>74</sub>	23.847 <sub>152</sub>	60.93 <sub>39</sub>
19.2	25.40 <sub>58</sub>	28.95 <sub>145</sub>	15.44 <sub>113</sub>	46.81 <sub>189</sub>	17.278 <sub>157</sub>	61.67 <sub>82</sub>	23.695 <sub>147</sub>	61.32 <sub>25</sub>
29.2	24.82 <sub>52</sub>	27.50 <sub>190</sub>	14.31 <sub>104</sub>	44.92 <sub>236</sub>	17.121 <sub>142</sub>	60.85 <sub>84</sub>	23.548 <sub>133</sub>	61.57 <sub>7</sub>
März 10.1	24.30 <sub>43</sub>	25.60 <sub>228</sub>	13.27 <sub>91</sub>	42.56 <sub>276</sub>	16.979 <sub>117</sub>	60.01 <sub>82</sub>	23.415 <sub>112</sub>	61.64 <sub>12</sub>
20.1	23.87 <sub>32</sub>	23.32 <sub>257</sub>	12.36 <sub>77</sub>	39.80 <sub>309</sub>	16.862 <sub>84</sub>	59.19 <sub>77</sub>	23.303 <sub>82</sub>	61.52 <sub>31</sub>
30.1	23.55 <sub>19</sub>	20.75 <sub>274</sub>	11.59 <sub>60</sub>	36.71 <sub>335</sub>	16.778 <sub>43</sub>	58.42 <sub>65</sub>	23.221 <sub>46</sub>	61.21 <sub>52</sub>
Apr. 9.1	23.36 <sub>5</sub>	18.01 <sub>280</sub>	10.99 <sub>43</sub>	33.36 <sub>353</sub>	16.735 <sub>2</sub>	57.77 <sub>51</sub>	23.175 <sub>5</sub>	60.69 <sub>75</sub>
19.0	23.31 <sub>8</sub>	15.21 <sub>277</sub>	10.56 <sub>23</sub>	29.83 <sub>364</sub>	16.737 <sub>50</sub>	57.26 <sub>33</sub>	23.170 <sub>40</sub>	59.94 <sub>97</sub>
29.0	23.39 <sub>23</sub>	12.44 <sub>263</sub>	10.33 <sub>4</sub>	26.19 <sub>366</sub>	16.787 <sub>100</sub>	56.93 <sub>11</sub>	23.210 <sub>84</sub>	58.97 <sub>117</sub>
Mai 9.0	23.62 <sub>36</sub>	9.81 <sub>240</sub>	10.29 <sub>15</sub>	22.53 <sub>360</sub>	16.887 <sub>147</sub>	56.82 <sub>13</sub>	23.294 <sub>129</sub>	57.80 <sub>138</sub>
19.0	23.98 <sub>48</sub>	7.41 <sub>209</sub>	10.44 <sub>35</sub>	18.93 <sub>346</sub>	17.034 <sub>192</sub>	56.95 <sub>37</sub>	23.423 <sub>171</sub>	56.42 <sub>154</sub>
28.9	24.46 <sub>59</sub>	5.32 <sub>172</sub>	10.79 <sub>53</sub>	15.47 <sub>324</sub>	17.226 <sub>232</sub>	57.32 <sub>62</sub>	23.594 <sub>209</sub>	54.88 <sub>168</sub>
Juni 7.9	25.05 <sub>68</sub>	3.60 <sub>130</sub>	11.32 <sub>70</sub>	12.23 <sub>293</sub>	17.458 <sub>265</sub>	57.94 <sub>84</sub>	23.803 <sub>240</sub>	53.20 <sub>178</sub>
17.9	25.73 <sub>75</sub>	2.30 <sub>84</sub>	12.02 <sub>85</sub>	9.30 <sub>256</sub>	17.723 <sub>291</sub>	58.78 <sub>104</sub>	24.043 <sub>266</sub>	51.42 <sub>183</sub>
27.8	26.48 <sub>81</sub>	1.46 <sub>37</sub>	12.87 <sub>98</sub>	6.74 <sub>211</sub>	18.014 <sub>309</sub>	59.82 <sub>123</sub>	24.309 <sub>285</sub>	49.59 <sub>183</sub>
Juli 7.8	27.29 <sub>83</sub>	1.09 <sub>11</sub>	13.85 <sub>108</sub>	4.63 <sub>161</sub>	18.323 <sub>320</sub>	61.05 <sub>137</sub>	24.594 <sub>295</sub>	47.76 <sub>178</sub>
17.8	28.12 <sub>85</sub>	1.20 <sub>58</sub>	14.93 <sub>115</sub>	3.02 <sub>106</sub>	18.643 <sub>323</sub>	62.42 <sub>147</sub>	24.889 <sub>300</sub>	45.98 <sub>168</sub>
27.8	28.97 <sub>84</sub>	1.78 <sub>104</sub>	16.08 <sub>118</sub>	1.96 <sub>46</sub>	18.966 <sub>319</sub>	63.89 <sub>152</sub>	25.189 <sub>296</sub>	44.30 <sub>153</sub>
Aug. 6.7	29.81 <sub>82</sub>	2.82 <sub>148</sub>	17.26 <sub>117</sub>	1.50 <sub>14</sub>	19.285 <sub>307</sub>	65.41 <sub>154</sub>	25.485 <sub>286</sub>	42.77 <sub>133</sub>
16.7	30.63 <sub>79</sub>	4.30 <sub>187</sub>	18.43 <sub>113</sub>	1.64 <sub>74</sub>	19.592 <sub>291</sub>	66.95 <sub>152</sub>	25.771 <sub>271</sub>	41.44 <sub>110</sub>
26.7	31.42 <sub>72</sub>	6.17 <sub>224</sub>	19.56 <sub>105</sub>	2.38 <sub>134</sub>	19.883 <sub>270</sub>	68.47 <sub>146</sub>	26.042 <sub>251</sub>	40.34 <sub>83</sub>
Sept. 5.7	32.14 <sub>67</sub>	8.41 <sub>254</sub>	20.61 <sub>94</sub>	3.72 <sub>188</sub>	20.153 <sub>245</sub>	69.93 <sub>137</sub>	26.293 <sub>228</sub>	39.51 <sub>56</sub>
15.6	32.81 <sub>59</sub>	10.95 <sub>281</sub>	21.55 <sub>79</sub>	5.60 <sub>237</sub>	20.398 <sub>219</sub>	71.30 <sub>125</sub>	26.521 <sub>202</sub>	38.95 <sub>28</sub>
25.6	33.40 <sub>50</sub>	13.76 <sub>301</sub>	22.34 <sub>61</sub>	7.97 <sub>278</sub>	20.617 <sub>189</sub>	72.55 <sub>112</sub>	26.723 <sub>173</sub>	38.67 <sub>1</sub>
Okt. 5.6	33.90 <sub>41</sub>	16.77 <sub>316</sub>	22.95 <sub>41</sub>	10.75 <sub>308</sub>	20.806 <sub>159</sub>	73.67 <sub>97</sub>	26.896 <sub>145</sub>	38.66 <sub>25</sub>
15.5	34.31 <sub>31</sub>	19.93 <sub>324</sub>	23.36 <sub>20</sub>	13.83 <sub>327</sub>	20.965 <sub>129</sub>	74.64 <sub>83</sub>	27.041 <sub>115</sub>	38.91 <sub>47</sub>
25.5	34.62 <sub>21</sub>	23.17 <sub>324</sub>	23.56 <sub>2</sub>	17.10 <sub>334</sub>	21.094 <sub>98</sub>	75.47 <sub>68</sub>	27.156 <sub>85</sub>	39.38 <sub>65</sub>
Nov. 4.5	34.83 <sub>9</sub>	26.41 <sub>318</sub>	23.54 <sub>24</sub>	20.44 <sub>328</sub>	21.192 <sub>65</sub>	76.15 <sub>53</sub>	27.241 <sub>56</sub>	40.03 <sub>80</sub>
14.5	34.92 <sub>3</sub>	29.59 <sub>304</sub>	23.30 <sub>46</sub>	23.72 <sub>310</sub>	21.257 <sub>34</sub>	76.68 <sub>39</sub>	27.297 <sub>25</sub>	40.83 <sub>90</sub>
24.4	34.89 <sub>14</sub>	32.63 <sub>281</sub>	22.84 <sub>65</sub>	26.82 <sub>280</sub>	21.291 <sub>1</sub>	77.07 <sub>24</sub>	27.322 <sub>5</sub>	41.73 <sub>95</sub>
Dez. 4.4	34.75 <sub>25</sub>	35.44 <sub>250</sub>	22.19 <sub>84</sub>	29.62 <sub>239</sub>	21.292 <sub>31</sub>	77.31 <sub>10</sub>	27.317 <sub>33</sub>	42.68 <sub>97</sub>
14.4	34.50 <sub>36</sub>	37.94 <sub>211</sub>	21.35 <sub>98</sub>	32.01 <sub>192</sub>	21.261 <sub>62</sub>	77.41 <sub>4</sub>	27.284 <sub>62</sub>	43.65 <sub>95</sub>
24.4	34.14 <sub>45</sub>	40.05 <sub>165</sub>	20.37 <sub>109</sub>	33.93 <sub>135</sub>	21.199 <sub>92</sub>	77.37 <sub>19</sub>	27.222 <sub>88</sub>	44.60 <sub>90</sub>
34.3	33.69	41.70	19.28	35.28	21.107	77.18	27.134	45.50
Mittl. Ort sec δ, tg δ	23.51 3.320	10.57 +3.166	19.92 5.466	30.83 -5.374	16.166 1.076	58.40 +0.396	22.802 1.000	57.35 0.000

Mittlere Zeit Greenw.	93) $\delta$ Persei		97) $\pi$ Ceti		98) $\mu$ Ceti		100) $\alpha$ Arietis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	2 <sup>h</sup> 38 <sup>m</sup>	+48° 53'	2 <sup>h</sup> 40 <sup>m</sup>	-14° 11'	2 <sup>h</sup> 40 <sup>m</sup>	+9° 46'	2 <sup>h</sup> 45 <sup>m</sup>	+26° 55'
Jan. 0.3	46.149 <sup>173</sup>	40.23 <sup>65</sup>	20.326 <sup>112</sup>	53.77 <sup>117</sup>	38.566 <sup>97</sup>	39.57 <sup>61</sup>	18.185 <sup>107</sup>	60.55 <sup>6</sup>
10.3	45.976 <sup>209</sup>	40.88 <sup>26</sup>	20.214 <sup>134</sup>	54.94 <sup>93</sup>	38.469 <sup>120</sup>	38.96 <sup>62</sup>	18.078 <sup>134</sup>	60.49 <sup>25</sup>
20.3	45.767 <sup>234</sup>	41.14 <sup>13</sup>	20.080 <sup>150</sup>	55.87 <sup>68</sup>	38.349 <sup>138</sup>	38.34 <sup>62</sup>	17.944 <sup>155</sup>	60.24 <sup>42</sup>
30.3	45.533 <sup>250</sup>	41.01 <sup>53</sup>	19.930 <sup>161</sup>	56.55 <sup>41</sup>	38.211 <sup>149</sup>	37.72 <sup>60</sup>	17.789 <sup>170</sup>	59.82 <sup>60</sup>
Feb. 9.2	45.283 <sup>253</sup>	40.48 <sup>91</sup>	19.769 <sup>164</sup>	56.96 <sup>12</sup>	38.062 <sup>154</sup>	37.12 <sup>56</sup>	17.619 <sup>175</sup>	59.22 <sup>75</sup>
19.2	45.030 <sup>242</sup>	39.57 <sup>124</sup>	19.605 <sup>160</sup>	57.08 <sup>16</sup>	37.908 <sup>150</sup>	36.56 <sup>51</sup>	17.444 <sup>170</sup>	58.47 <sup>87</sup>
29.2	44.788 <sup>219</sup>	38.33 <sup>153</sup>	19.445 <sup>146</sup>	56.92 <sup>44</sup>	37.758 <sup>137</sup>	36.05 <sup>42</sup>	17.274 <sup>156</sup>	57.60 <sup>96</sup>
März 10.1	44.569 <sup>181</sup>	36.80 <sup>175</sup>	19.299 <sup>124</sup>	56.48 <sup>73</sup>	37.621 <sup>115</sup>	35.63 <sup>32</sup>	17.118 <sup>132</sup>	56.64 <sup>100</sup>
20.1	44.388 <sup>133</sup>	35.05 <sup>189</sup>	19.175 <sup>96</sup>	55.75 <sup>100</sup>	37.506 <sup>84</sup>	35.31 <sup>18</sup>	16.986 <sup>97</sup>	55.64 <sup>99</sup>
30.1	44.255 <sup>75</sup>	33.16 <sup>196</sup>	19.079 <sup>59</sup>	54.75 <sup>127</sup>	37.422 <sup>48</sup>	35.13 <sup>1</sup>	16.889 <sup>56</sup>	54.65 <sup>92</sup>
Apr. 9.1	44.180 <sup>12</sup>	31.20 <sup>193</sup>	19.020 <sup>19</sup>	53.48 <sup>152</sup>	37.374 <sup>6</sup>	35.12 <sup>17</sup>	16.833 <sup>9</sup>	53.73 <sup>81</sup>
19.0	44.168 <sup>56</sup>	29.27 <sup>183</sup>	19.001 <sup>26</sup>	51.96 <sup>175</sup>	37.368 <sup>40</sup>	35.29 <sup>37</sup>	16.824 <sup>41</sup>	52.92 <sup>65</sup>
29.0	44.224 <sup>124</sup>	27.44 <sup>166</sup>	19.027 <sup>71</sup>	50.21 <sup>195</sup>	37.408 <sup>86</sup>	35.66 <sup>59</sup>	16.865 <sup>92</sup>	52.27 <sup>45</sup>
Mai 9.0	44.348 <sup>190</sup>	25.78 <sup>141</sup>	19.098 <sup>117</sup>	48.26 <sup>211</sup>	37.494 <sup>131</sup>	36.25 <sup>80</sup>	16.957 <sup>142</sup>	51.82 <sup>23</sup>
19.0	44.538 <sup>250</sup>	24.37 <sup>113</sup>	19.215 <sup>160</sup>	46.15 <sup>223</sup>	37.625 <sup>174</sup>	37.05 <sup>100</sup>	17.099 <sup>190</sup>	51.59 <sup>2</sup>
28.9	44.788 <sup>304</sup>	23.24 <sup>80</sup>	19.375 <sup>199</sup>	43.92 <sup>229</sup>	37.799 <sup>213</sup>	38.05 <sup>119</sup>	17.289 <sup>232</sup>	51.61 <sup>28</sup>
Juni 7.9	45.092 <sup>350</sup>	22.44 <sup>45</sup>	19.574 <sup>233</sup>	41.63 <sup>231</sup>	38.012 <sup>245</sup>	39.24 <sup>135</sup>	17.521 <sup>268</sup>	51.89 <sup>52</sup>
17.9	45.442 <sup>385</sup>	21.99 <sup>8</sup>	19.807 <sup>261</sup>	39.32 <sup>225</sup>	38.257 <sup>272</sup>	40.59 <sup>147</sup>	17.789 <sup>296</sup>	52.41 <sup>77</sup>
27.8	45.827 <sup>411</sup>	21.91 <sup>27</sup>	20.068 <sup>281</sup>	37.07 <sup>214</sup>	38.529 <sup>290</sup>	42.06 <sup>155</sup>	18.085 <sup>317</sup>	53.18 <sup>97</sup>
Juli 7.8	46.238 <sup>427</sup>	22.18 <sup>63</sup>	20.349 <sup>295</sup>	34.93 <sup>197</sup>	38.819 <sup>302</sup>	43.61 <sup>159</sup>	18.402 <sup>329</sup>	54.15 <sup>116</sup>
17.8	46.665 <sup>432</sup>	22.81 <sup>96</sup>	20.644 <sup>300</sup>	32.96 <sup>175</sup>	39.121 <sup>305</sup>	45.20 <sup>158</sup>	18.731 <sup>334</sup>	55.31 <sup>131</sup>
27.8	47.097 <sup>428</sup>	23.77 <sup>127</sup>	20.944 <sup>299</sup>	31.21 <sup>146</sup>	39.426 <sup>303</sup>	46.78 <sup>152</sup>	19.065 <sup>332</sup>	56.62 <sup>142</sup>
Aug. 6.7	47.525 <sup>416</sup>	25.04 <sup>153</sup>	21.243 <sup>291</sup>	29.75 <sup>113</sup>	39.729 <sup>293</sup>	48.30 <sup>143</sup>	19.397 <sup>322</sup>	58.04 <sup>149</sup>
16.7	47.941 <sup>396</sup>	26.57 <sup>177</sup>	21.534 <sup>276</sup>	28.62 <sup>78</sup>	40.022 <sup>279</sup>	49.73 <sup>128</sup>	19.719 <sup>307</sup>	59.53 <sup>152</sup>
26.7	48.337 <sup>370</sup>	28.34 <sup>196</sup>	21.810 <sup>256</sup>	27.84 <sup>40</sup>	40.301 <sup>260</sup>	51.01 <sup>112</sup>	20.026 <sup>287</sup>	61.05 <sup>151</sup>
Sept. 5.7	48.707 <sup>338</sup>	30.30 <sup>210</sup>	22.066 <sup>233</sup>	27.44 <sup>2</sup>	40.561 <sup>236</sup>	52.13 <sup>92</sup>	20.313 <sup>263</sup>	62.56 <sup>147</sup>
15.6	49.045 <sup>304</sup>	32.40 <sup>222</sup>	22.299 <sup>206</sup>	27.42 <sup>37</sup>	40.797 <sup>211</sup>	53.05 <sup>71</sup>	20.576 <sup>236</sup>	64.03 <sup>141</sup>
25.6	49.349 <sup>265</sup>	34.62 <sup>228</sup>	22.505 <sup>177</sup>	27.79 <sup>71</sup>	41.008 <sup>184</sup>	53.76 <sup>50</sup>	20.812 <sup>208</sup>	65.44 <sup>132</sup>
Okt. 5.6	49.614 <sup>224</sup>	36.90 <sup>230</sup>	22.682 <sup>147</sup>	28.50 <sup>102</sup>	41.192 <sup>155</sup>	54.26 <sup>29</sup>	21.020 <sup>178</sup>	66.76 <sup>122</sup>
15.5	49.838 <sup>181</sup>	39.20 <sup>229</sup>	22.829 <sup>114</sup>	29.52 <sup>128</sup>	41.347 <sup>127</sup>	54.55 <sup>10</sup>	21.198 <sup>147</sup>	67.98 <sup>109</sup>
25.5	50.019 <sup>135</sup>	41.49 <sup>223</sup>	22.943 <sup>83</sup>	30.80 <sup>148</sup>	41.474 <sup>96</sup>	54.65 <sup>7</sup>	21.345 <sup>115</sup>	69.07 <sup>97</sup>
Nov. 4.5	50.154 <sup>89</sup>	43.72 <sup>211</sup>	23.026 <sup>51</sup>	32.28 <sup>162</sup>	41.570 <sup>67</sup>	54.58 <sup>21</sup>	21.460 <sup>81</sup>	70.04 <sup>84</sup>
14.5	50.243 <sup>40</sup>	45.83 <sup>196</sup>	23.077 <sup>19</sup>	33.90 <sup>167</sup>	41.637 <sup>36</sup>	54.37 <sup>34</sup>	21.541 <sup>47</sup>	70.88 <sup>70</sup>
24.4	50.283 <sup>10</sup>	47.79 <sup>177</sup>	23.096 <sup>12</sup>	35.57 <sup>167</sup>	41.673 <sup>6</sup>	54.03 <sup>43</sup>	21.588 <sup>13</sup>	71.58 <sup>54</sup>
Dez. 4.4	50.273 <sup>59</sup>	49.56 <sup>151</sup>	23.084 <sup>43</sup>	37.24 <sup>159</sup>	41.679 <sup>25</sup>	53.60 <sup>51</sup>	21.601 <sup>23</sup>	72.12 <sup>39</sup>
14.4	50.214 <sup>107</sup>	51.07 <sup>122</sup>	23.041 <sup>72</sup>	38.83 <sup>147</sup>	41.654 <sup>54</sup>	53.09 <sup>56</sup>	21.578 <sup>58</sup>	72.51 <sup>23</sup>
24.4	50.107 <sup>152</sup>	52.29 <sup>88</sup>	22.969 <sup>99</sup>	40.30 <sup>129</sup>	41.600 <sup>83</sup>	52.53 <sup>59</sup>	21.520 <sup>91</sup>	72.74 <sup>5</sup>
34.3	49.955	53.17	22.870	41.59	41.517	51.94	21.429	72.79
Mittl. Ort sec $\delta$ , tg $\delta$	43.572 1.521	27.51 +1.146	18.863 1.031	48.62 -0.253	36.877 1.015	37.54 +0.172	16.207 1.122	53.76 +0.508



Mittlere Zeit Greenw.	101) $\beta$ Fornacis		102) $\tau^2$ Eridani		103) $\tau$ Persei		104) $\eta$ Eridani	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	2 <sup>h</sup> 45 <sup>m</sup>	-32° 44'	2 <sup>h</sup> 47 <sup>m</sup>	-21° 19'	2 <sup>h</sup> 48 <sup>m</sup>	+52° 26'	2 <sup>h</sup> 52 <sup>m</sup>	-9° 12'
Jan. 0.3	45.905 <sup>153</sup>	38.92 <sup>145</sup>	26.014 <sup>121</sup>	67.14 <sup>132</sup>	37.321 <sup>185</sup>	22.63 <sup>85</sup>	32.645 <sup>101</sup>	61.17 <sup>112</sup>
10.3	45.752 <sup>176</sup>	40.37 <sup>104</sup>	25.893 <sup>145</sup>	68.46 <sup>103</sup>	37.136 <sup>225</sup>	23.48 <sup>45</sup>	32.544 <sup>125</sup>	62.29 <sup>94</sup>
20.3	45.576 <sup>193</sup>	41.41 <sup>63</sup>	25.748 <sup>163</sup>	69.49 <sup>70</sup>	36.911 <sup>257</sup>	23.93 <sup>4</sup>	32.419 <sup>143</sup>	63.23 <sup>74</sup>
30.3	45.383 <sup>204</sup>	42.04 <sup>20</sup>	25.585 <sup>174</sup>	70.19 <sup>37</sup>	36.654 <sup>276</sup>	23.97 <sup>39</sup>	32.276 <sup>157</sup>	63.97 <sup>51</sup>
Feb. 9.2	45.179 <sup>207</sup>	42.24 <sup>24</sup>	25.411 <sup>178</sup>	70.56 <sup>2</sup>	36.378 <sup>282</sup>	23.58 <sup>80</sup>	32.119 <sup>162</sup>	64.48 <sup>27</sup>
19.2	44.972 <sup>200</sup>	42.00 <sup>66</sup>	25.233 <sup>173</sup>	70.58 <sup>32</sup>	36.096 <sup>272</sup>	22.78 <sup>118</sup>	31.957 <sup>160</sup>	64.75 <sup>3</sup>
29.2	44.772 <sup>186</sup>	41.34 <sup>106</sup>	25.060 <sup>161</sup>	70.26 <sup>67</sup>	35.824 <sup>248</sup>	21.60 <sup>150</sup>	31.797 <sup>148</sup>	64.78 <sup>21</sup>
März 10.2	44.586 <sup>162</sup>	40.28 <sup>145</sup>	24.899 <sup>140</sup>	69.59 <sup>99</sup>	35.576 <sup>211</sup>	20.10 <sup>177</sup>	31.649 <sup>129</sup>	64.57 <sup>48</sup>
20.1	44.424 <sup>129</sup>	38.83 <sup>181</sup>	24.759 <sup>110</sup>	68.60 <sup>131</sup>	35.365 <sup>159</sup>	18.33 <sup>195</sup>	31.520 <sup>101</sup>	64.09 <sup>72</sup>
30.1	44.295 <sup>91</sup>	37.02 <sup>212</sup>	24.649 <sup>74</sup>	67.29 <sup>159</sup>	35.206 <sup>99</sup>	16.38 <sup>205</sup>	31.419 <sup>66</sup>	63.37 <sup>97</sup>
Apr. 9.1	44.204 <sup>46</sup>	34.90 <sup>240</sup>	24.575 <sup>33</sup>	65.70 <sup>186</sup>	35.107 <sup>31</sup>	14.33 <sup>206</sup>	31.353 <sup>27</sup>	62.40 <sup>122</sup>
19.0	44.158 <sup>2</sup>	32.50 <sup>263</sup>	24.542 <sup>13</sup>	63.84 <sup>210</sup>	35.076 <sup>41</sup>	12.27 <sup>200</sup>	31.326 <sup>17</sup>	61.18 <sup>144</sup>
29.0	44.160 <sup>53</sup>	29.87 <sup>279</sup>	24.555 <sup>59</sup>	61.74 <sup>229</sup>	35.117 <sup>114</sup>	10.27 <sup>185</sup>	31.343 <sup>63</sup>	59.74 <sup>165</sup>
Mai 9.0	44.213 <sup>103</sup>	27.08 <sup>292</sup>	24.614 <sup>106</sup>	59.45 <sup>244</sup>	35.231 <sup>185</sup>	8.42 <sup>163</sup>	31.406 <sup>108</sup>	58.09 <sup>183</sup>
19.0	44.316 <sup>152</sup>	24.16 <sup>296</sup>	24.720 <sup>151</sup>	57.01 <sup>253</sup>	35.416 <sup>251</sup>	6.79 <sup>137</sup>	31.514 <sup>150</sup>	56.26 <sup>197</sup>
28.9	44.468 <sup>197</sup>	21.20 <sup>294</sup>	24.871 <sup>193</sup>	54.48 <sup>257</sup>	35.667 <sup>310</sup>	5.42 <sup>104</sup>	31.664 <sup>191</sup>	54.29 <sup>207</sup>
Juni 7.9	44.665 <sup>237</sup>	18.26 <sup>284</sup>	25.064 <sup>228</sup>	51.91 <sup>253</sup>	35.977 <sup>361</sup>	4.38 <sup>69</sup>	31.855 <sup>225</sup>	52.22 <sup>211</sup>
17.9	44.902 <sup>270</sup>	15.42 <sup>268</sup>	25.292 <sup>259</sup>	49.38 <sup>244</sup>	36.338 <sup>402</sup>	3.69 <sup>32</sup>	32.080 <sup>253</sup>	50.11 <sup>210</sup>
27.9	45.172 <sup>297</sup>	12.74 <sup>244</sup>	25.551 <sup>281</sup>	46.94 <sup>229</sup>	36.740 <sup>431</sup>	3.37 <sup>5</sup>	32.333 <sup>275</sup>	48.01 <sup>203</sup>
Juli 7.8	45.469 <sup>314</sup>	10.30 <sup>213</sup>	25.832 <sup>297</sup>	44.65 <sup>206</sup>	37.171 <sup>450</sup>	3.42 <sup>41</sup>	32.608 <sup>289</sup>	45.98 <sup>192</sup>
17.8	45.783 <sup>325</sup>	8.17 <sup>175</sup>	26.129 <sup>305</sup>	42.59 <sup>177</sup>	37.621 <sup>459</sup>	3.83 <sup>78</sup>	32.897 <sup>297</sup>	44.06 <sup>173</sup>
27.8	46.108 <sup>327</sup>	6.42 <sup>134</sup>	26.434 <sup>306</sup>	40.82 <sup>144</sup>	38.080 <sup>457</sup>	4.61 <sup>110</sup>	33.194 <sup>296</sup>	42.33 <sup>149</sup>
Aug. 6.7	46.435 <sup>320</sup>	5.08 <sup>87</sup>	26.740 <sup>298</sup>	39.38 <sup>105</sup>	38.537 <sup>447</sup>	5.71 <sup>140</sup>	33.490 <sup>289</sup>	40.84 <sup>122</sup>
16.7	46.755 <sup>306</sup>	4.21 <sup>37</sup>	27.038 <sup>286</sup>	38.33 <sup>64</sup>	38.984 <sup>429</sup>	7.11 <sup>166</sup>	33.779 <sup>278</sup>	39.62 <sup>91</sup>
26.7	47.061 <sup>286</sup>	3.84 <sup>13</sup>	27.324 <sup>266</sup>	37.69 <sup>21</sup>	39.413 <sup>403</sup>	8.77 <sup>190</sup>	34.057 <sup>260</sup>	38.71 <sup>56</sup>
Sept. 5.7	47.347 <sup>259</sup>	3.97 <sup>63</sup>	27.590 <sup>243</sup>	37.48 <sup>23</sup>	39.816 <sup>372</sup>	10.67 <sup>208</sup>	34.317 <sup>239</sup>	38.15 <sup>21</sup>
15.6	47.606 <sup>229</sup>	4.60 <sup>110</sup>	27.833 <sup>216</sup>	37.71 <sup>65</sup>	40.188 <sup>336</sup>	12.75 <sup>222</sup>	34.556 <sup>213</sup>	37.94 <sup>14</sup>
25.6	47.835 <sup>195</sup>	5.70 <sup>153</sup>	28.049 <sup>186</sup>	38.36 <sup>104</sup>	40.524 <sup>297</sup>	14.97 <sup>233</sup>	34.769 <sup>187</sup>	38.08 <sup>47</sup>
Okt. 5.6	48.030 <sup>158</sup>	7.23 <sup>190</sup>	28.235 <sup>154</sup>	39.40 <sup>138</sup>	40.821 <sup>253</sup>	17.30 <sup>239</sup>	34.956 <sup>158</sup>	38.55 <sup>77</sup>
15.6	48.188 <sup>120</sup>	9.13 <sup>219</sup>	28.389 <sup>120</sup>	40.78 <sup>166</sup>	41.074 <sup>207</sup>	19.69 <sup>240</sup>	35.114 <sup>128</sup>	39.32 <sup>103</sup>
25.5	48.308 <sup>80</sup>	11.32 <sup>239</sup>	28.509 <sup>87</sup>	42.44 <sup>187</sup>	41.281 <sup>159</sup>	22.09 <sup>237</sup>	35.242 <sup>98</sup>	40.35 <sup>123</sup>
Nov. 4.5	48.388 <sup>40</sup>	13.71 <sup>250</sup>	28.596 <sup>53</sup>	44.31 <sup>200</sup>	41.440 <sup>107</sup>	24.46 <sup>229</sup>	35.340 <sup>66</sup>	41.58 <sup>138</sup>
14.5	48.428 <sup>2</sup>	16.21 <sup>250</sup>	28.649 <sup>18</sup>	46.31 <sup>204</sup>	41.547 <sup>54</sup>	26.75 <sup>215</sup>	35.406 <sup>35</sup>	42.96 <sup>146</sup>
24.4	48.430 <sup>36</sup>	18.71 <sup>242</sup>	28.667 <sup>15</sup>	48.35 <sup>201</sup>	41.601 <sup>1</sup>	28.91 <sup>197</sup>	35.441 <sup>4</sup>	44.42 <sup>148</sup>
Dec. 4.4	48.394 <sup>72</sup>	21.13 <sup>224</sup>	28.652 <sup>48</sup>	50.36 <sup>190</sup>	41.600 <sup>56</sup>	30.88 <sup>173</sup>	35.445 <sup>27</sup>	45.90 <sup>144</sup>
14.4	48.322 <sup>107</sup>	23.37 <sup>199</sup>	28.604 <sup>79</sup>	52.26 <sup>172</sup>	41.544 <sup>110</sup>	32.61 <sup>144</sup>	35.418 <sup>58</sup>	47.34 <sup>135</sup>
24.4	48.215 <sup>137</sup>	25.36 <sup>166</sup>	28.525 <sup>107</sup>	53.98 <sup>149</sup>	41.434 <sup>161</sup>	34.05 <sup>103</sup>	35.360 <sup>86</sup>	48.69 <sup>123</sup>
34.3	48.078	27.02	28.418	55.47	41.273	35.14	35.274	49.92
Mittl. Ort sec $\delta$ , tg $\delta$	44.513 1.189	28.74 -0.643	24.559 1.074	59.84 -0.391	34.493 1.640	9.88 +1.300	31.083 1.013	57.12 -0.162

Mittlere Zeit Greenw.	106) $\eta$ Eridani		105) 47 H. Cephei		107) $\alpha$ Ceti		108) $\gamma$ Persei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$2^h 55^m$	$-40^\circ 37'$	$2^h 55^m$	$+79^\circ 6'$	$2^h 58^m$	$+3^\circ 46'$	$2^h 58^m$	$+53^\circ 11'$
Jan. 0.3	14.998 <sup>181</sup>	40.61 <sup>159</sup>	31.05 <sup>78</sup>	32.34 <sup>181</sup>	7.418 <sup>89</sup>	35.41 <sup>79</sup>	62.433 <sup>180</sup>	51.19 <sup>97</sup>
10.3	14.817 <sup>207</sup>	42.20 <sup>115</sup>	30.27 <sup>90</sup>	34.15 <sup>126</sup>	7.329 <sup>115</sup>	34.62 <sup>73</sup>	62.253 <sup>224</sup>	52.16 <sup>58</sup>
20.3	14.610 <sup>228</sup>	43.35 <sup>67</sup>	29.37 <sup>100</sup>	35.41 <sup>69</sup>	7.214 <sup>136</sup>	33.89 <sup>66</sup>	62.029 <sup>258</sup>	52.74 <sup>16</sup>
30.3	14.382 <sup>239</sup>	44.02 <sup>18</sup>	28.37 <sup>105</sup>	36.10 <sup>7</sup>	7.078 <sup>150</sup>	33.23 <sup>57</sup>	61.771 <sup>282</sup>	52.90 <sup>27</sup>
Feb. 9.2	14.143 <sup>243</sup>	44.20 <sup>31</sup>	27.32 <sup>105</sup>	36.17 <sup>53</sup>	6.928 <sup>158</sup>	32.66 <sup>48</sup>	61.489 <sup>289</sup>	52.63 <sup>68</sup>
19.2	13.900 <sup>237</sup>	43.89 <sup>77</sup>	26.27 <sup>102</sup>	35.64 <sup>111</sup>	6.770 <sup>157</sup>	32.18 <sup>35</sup>	61.200 <sup>284</sup>	51.95 <sup>108</sup>
29.2	13.663 <sup>222</sup>	43.12 <sup>123</sup>	25.25 <sup>92</sup>	34.53 <sup>164</sup>	6.613 <sup>146</sup>	31.83 <sup>21</sup>	60.916 <sup>262</sup>	50.87 <sup>142</sup>
März 10.2	13.441 <sup>196</sup>	41.89 <sup>165</sup>	24.33 <sup>80</sup>	32.89 <sup>210</sup>	6.467 <sup>127</sup>	31.62 <sup>7</sup>	60.654 <sup>225</sup>	49.45 <sup>170</sup>
20.1	13.245 <sup>163</sup>	40.24 <sup>203</sup>	23.53 <sup>63</sup>	30.79 <sup>247</sup>	6.340 <sup>99</sup>	31.55 <sup>11</sup>	60.429 <sup>176</sup>	47.75 <sup>190</sup>
30.1	13.082 <sup>122</sup>	38.21 <sup>237</sup>	22.90 <sup>45</sup>	28.32 <sup>273</sup>	6.241 <sup>65</sup>	31.66 <sup>29</sup>	60.253 <sup>116</sup>	45.85 <sup>203</sup>
Apr. 9.1	12.960 <sup>74</sup>	35.84 <sup>265</sup>	22.45 <sup>24</sup>	25.59 <sup>290</sup>	6.176 <sup>24</sup>	31.95 <sup>49</sup>	60.137 <sup>48</sup>	43.82 <sup>207</sup>
19.0	12.886 <sup>22</sup>	33.19 <sup>289</sup>	22.21 <sup>2</sup>	22.69 <sup>294</sup>	6.152 <sup>19</sup>	32.44 <sup>70</sup>	60.089 <sup>25</sup>	41.75 <sup>203</sup>
29.0	12.864 <sup>32</sup>	30.30 <sup>306</sup>	22.19 <sup>20</sup>	19.75 <sup>289</sup>	6.171 <sup>65</sup>	33.14 <sup>90</sup>	60.114 <sup>99</sup>	39.72 <sup>191</sup>
Mai 9.0	12.896 <sup>88</sup>	27.24 <sup>317</sup>	22.39 <sup>42</sup>	16.86 <sup>273</sup>	6.235 <sup>111</sup>	34.04 <sup>111</sup>	60.213 <sup>172</sup>	37.81 <sup>171</sup>
19.0	12.984 <sup>141</sup>	24.07 <sup>319</sup>	22.81 <sup>62</sup>	14.13 <sup>249</sup>	6.347 <sup>153</sup>	35.15 <sup>128</sup>	60.385 <sup>240</sup>	36.10 <sup>146</sup>
28.9	13.125 <sup>192</sup>	20.88 <sup>315</sup>	23.43 <sup>79</sup>	11.64 <sup>216</sup>	6.500 <sup>193</sup>	36.43 <sup>143</sup>	60.625 <sup>302</sup>	34.64 <sup>115</sup>
Juni 7.9	13.317 <sup>236</sup>	17.73 <sup>303</sup>	24.22 <sup>95</sup>	9.48 <sup>179</sup>	6.693 <sup>227</sup>	37.86 <sup>156</sup>	60.927 <sup>355</sup>	33.49 <sup>82</sup>
17.9	13.553 <sup>276</sup>	14.70 <sup>282</sup>	25.17 <sup>109</sup>	7.69 <sup>136</sup>	6.920 <sup>256</sup>	39.42 <sup>164</sup>	61.282 <sup>398</sup>	32.67 <sup>46</sup>
27.9	13.829 <sup>306</sup>	11.88 <sup>255</sup>	26.26 <sup>118</sup>	6.33 <sup>89</sup>	7.176 <sup>276</sup>	41.06 <sup>168</sup>	61.680 <sup>431</sup>	32.21 <sup>10</sup>
Juli 7.8	14.135 <sup>330</sup>	9.33 <sup>220</sup>	27.44 <sup>127</sup>	5.44 <sup>42</sup>	7.452 <sup>291</sup>	42.74 <sup>166</sup>	62.111 <sup>454</sup>	32.11 <sup>28</sup>
17.8	14.465 <sup>343</sup>	7.13 <sup>178</sup>	28.71 <sup>130</sup>	5.02 <sup>8</sup>	7.743 <sup>298</sup>	44.40 <sup>160</sup>	62.565 <sup>464</sup>	32.39 <sup>62</sup>
27.8	14.808 <sup>349</sup>	5.35 <sup>132</sup>	30.01 <sup>132</sup>	5.10 <sup>56</sup>	8.041 <sup>298</sup>	46.00 <sup>148</sup>	63.029 <sup>466</sup>	33.01 <sup>96</sup>
Aug. 6.7	15.157 <sup>345</sup>	4.03 <sup>80</sup>	31.33 <sup>130</sup>	5.66 <sup>103</sup>	8.339 <sup>291</sup>	47.48 <sup>133</sup>	63.495 <sup>458</sup>	33.97 <sup>127</sup>
16.7	15.502 <sup>334</sup>	3.23 <sup>27</sup>	32.63 <sup>127</sup>	6.69 <sup>147</sup>	8.630 <sup>280</sup>	48.81 <sup>114</sup>	63.953 <sup>442</sup>	35.24 <sup>154</sup>
26.7	15.836 <sup>313</sup>	2.96 <sup>28</sup>	33.90 <sup>121</sup>	8.16 <sup>189</sup>	8.910 <sup>263</sup>	49.95 <sup>91</sup>	64.395 <sup>418</sup>	36.78 <sup>178</sup>
Sept. 5.7	16.149 <sup>287</sup>	3.24 <sup>82</sup>	35.11 <sup>112</sup>	10.05 <sup>227</sup>	9.173 <sup>244</sup>	50.86 <sup>67</sup>	64.813 <sup>389</sup>	38.56 <sup>198</sup>
15.6	16.436 <sup>254</sup>	4.06 <sup>133</sup>	36.23 <sup>102</sup>	12.32 <sup>260</sup>	9.417 <sup>219</sup>	51.53 <sup>41</sup>	65.202 <sup>355</sup>	40.54 <sup>215</sup>
25.6	16.690 <sup>217</sup>	5.39 <sup>180</sup>	37.25 <sup>89</sup>	14.92 <sup>288</sup>	9.636 <sup>194</sup>	51.94 <sup>16</sup>	65.557 <sup>316</sup>	42.69 <sup>226</sup>
Okt. 5.6	16.907 <sup>176</sup>	7.19 <sup>219</sup>	38.14 <sup>76</sup>	17.80 <sup>310</sup>	9.830 <sup>167</sup>	52.10 <sup>8</sup>	65.873 <sup>273</sup>	44.95 <sup>234</sup>
15.6	17.083 <sup>133</sup>	9.38 <sup>250</sup>	38.90 <sup>59</sup>	20.90 <sup>326</sup>	9.997 <sup>139</sup>	52.02 <sup>30</sup>	66.146 <sup>228</sup>	47.29 <sup>238</sup>
25.5	17.216 <sup>88</sup>	11.88 <sup>271</sup>	39.49 <sup>43</sup>	24.16 <sup>336</sup>	10.136 <sup>110</sup>	51.72 <sup>47</sup>	66.374 <sup>178</sup>	49.67 <sup>237</sup>
Nov. 4.5	17.304 <sup>43</sup>	14.59 <sup>281</sup>	39.92 <sup>24</sup>	27.52 <sup>336</sup>	10.246 <sup>80</sup>	51.25 <sup>63</sup>	66.552 <sup>127</sup>	52.04 <sup>230</sup>
14.5	17.347 <sup>2</sup>	17.40 <sup>282</sup>	40.16 <sup>5</sup>	30.88 <sup>329</sup>	10.326 <sup>50</sup>	50.62 <sup>73</sup>	66.679 <sup>71</sup>	54.34 <sup>220</sup>
24.4	17.345 <sup>45</sup>	20.22 <sup>271</sup>	40.21 <sup>14</sup>	34.17 <sup>313</sup>	10.376 <sup>18</sup>	49.89 <sup>80</sup>	66.750 <sup>15</sup>	56.54 <sup>203</sup>
Dez. 4.4	17.300 <sup>88</sup>	22.93 <sup>250</sup>	40.07 <sup>34</sup>	37.30 <sup>288</sup>	10.394 <sup>13</sup>	49.09 <sup>84</sup>	66.765 <sup>43</sup>	58.57 <sup>181</sup>
14.4	17.212 <sup>127</sup>	25.43 <sup>221</sup>	39.73 <sup>52</sup>	40.18 <sup>254</sup>	10.381 <sup>45</sup>	48.25 <sup>84</sup>	66.722 <sup>99</sup>	60.38 <sup>153</sup>
24.4	17.085 <sup>162</sup>	27.64 <sup>185</sup>	39.21 <sup>70</sup>	42.72 <sup>212</sup>	10.336 <sup>74</sup>	47.41 <sup>81</sup>	66.623 <sup>154</sup>	61.91 <sup>120</sup>
34.3	16.923	29.49	38.51	44.84	10.262	46.60	66.469	63.11
Mittl. Ort sec $\delta$ , tg $\delta$	13.568 1.318	28.61 -0.858	23.12 5.290	16.43 +5.195	5.712 1.002	35.90 +0.066	59.479 1.669	39.11 +1.336

Mittlere Zeit Greenw.	109 ρ Persei		110 μ Horologii		111 β Persei		114 δ Arietis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	3 <sup>h</sup> 0 <sup>m</sup>	+38° 31'	3 <sup>h</sup> 1 <sup>m</sup>	-6° 2'	3 <sup>h</sup> 2 <sup>m</sup>	+40° 38'	3 <sup>h</sup> 7 <sup>m</sup>	+19° 25'
Jan. 0.4	4.957 <sub>120</sub>	61.38 <sub>43</sub>	45.03 <sub>33</sub>	67.08 <sub>165</sub>	59.837 <sub>123</sub>	63.50 <sub>52</sub>	5.002 <sub>87</sub>	33.66 <sub>26</sub>
10.3	4.837 <sub>154</sub>	61.81 <sub>15</sub>	44.70 <sub>38</sub>	68.73 <sub>112</sub>	59.714 <sub>159</sub>	64.02 <sub>24</sub>	4.915 <sub>116</sub>	33.40 <sub>35</sub>
20.3	4.683 <sub>181</sub>	61.96 <sub>14</sub>	44.32 <sub>40</sub>	69.85 <sub>54</sub>	59.555 <sub>188</sub>	64.26 <sub>7</sub>	4.799 <sub>141</sub>	33.05 <sub>44</sub>
30.3	4.502 <sub>201</sub>	61.82 <sub>42</sub>	43.92 <sub>42</sub>	70.39 <sub>3</sub>	59.367 <sub>209</sub>	64.19 <sub>37</sub>	4.658 <sub>158</sub>	32.61 <sub>52</sub>
Feb. 9.2	4.301 <sub>209</sub>	61.40 <sub>70</sub>	43.50 <sub>41</sub>	70.36 <sub>60</sub>	59.158 <sub>218</sub>	63.82 <sub>67</sub>	4.500 <sub>168</sub>	32.09 <sub>59</sub>
19.2	4.092 <sub>206</sub>	60.70 <sub>95</sub>	43.09 <sub>40</sub>	69.76 <sub>114</sub>	58.940 <sub>216</sub>	63.15 <sub>94</sub>	4.332 <sub>167</sub>	31.50 <sub>64</sub>
29.2	3.886 <sub>191</sub>	59.75 <sub>115</sub>	42.69 <sub>38</sub>	68.62 <sub>164</sub>	58.724 <sub>200</sub>	62.21 <sub>118</sub>	4.165 <sub>158</sub>	30.86 <sub>66</sub>
März 10.2	3.695 <sub>166</sub>	58.60 <sub>131</sub>	42.31 <sub>35</sub>	66.98 <sub>211</sub>	58.524 <sub>174</sub>	61.03 <sub>135</sub>	4.007 <sub>138</sub>	30.20 <sub>64</sub>
20.1	3.529 <sub>128</sub>	57.29 <sub>141</sub>	41.96 <sub>29</sub>	64.87 <sub>252</sub>	58.350 <sub>136</sub>	59.68 <sub>147</sub>	3.869 <sub>112</sub>	29.56 <sub>60</sub>
30.1	3.401 <sub>83</sub>	55.88 <sub>144</sub>	41.67 <sub>23</sub>	62.35 <sub>287</sub>	58.214 <sub>90</sub>	58.21 <sub>151</sub>	3.759 <sub>70</sub>	28.96 <sub>51</sub>
Apr. 9.1	3.318 <sub>29</sub>	54.44 <sub>140</sub>	41.44 <sub>17</sub>	59.48 <sub>315</sub>	58.124 <sub>35</sub>	56.70 <sub>150</sub>	3.687 <sub>30</sub>	28.45 <sub>39</sub>
19.1	3.289 <sub>26</sub>	53.04 <sub>130</sub>	41.27 <sub>10</sub>	56.33 <sub>337</sub>	58.089 <sub>23</sub>	55.20 <sub>142</sub>	3.657 <sub>17</sub>	28.06 <sub>23</sub>
29.0	3.315 <sub>85</sub>	51.74 <sub>115</sub>	41.17 <sub>2</sub>	52.96 <sub>351</sub>	58.112 <sub>82</sub>	53.78 <sub>126</sub>	3.674 <sub>65</sub>	27.83 <sub>4</sub>
Mai 9.0	3.400 <sub>142</sub>	50.59 <sub>94</sub>	41.15 <sub>6</sub>	49.45 <sub>356</sub>	58.194 <sub>142</sub>	52.52 <sub>107</sub>	3.739 <sub>114</sub>	27.79 <sub>15</sub>
19.0	3.542 <sub>196</sub>	49.65 <sub>70</sub>	41.21 <sub>14</sub>	45.89 <sub>354</sub>	58.336 <sub>197</sub>	51.45 <sub>82</sub>	3.853 <sub>160</sub>	27.94 <sub>37</sub>
28.9	3.738 <sub>245</sub>	48.95 <sub>43</sub>	41.35 <sub>22</sub>	42.35 <sub>343</sub>	58.533 <sub>247</sub>	50.63 <sub>56</sub>	4.013 <sub>202</sub>	28.31 <sub>58</sub>
Juni 7.9	3.983 <sub>286</sub>	48.52 <sub>14</sub>	41.57 <sub>28</sub>	38.92 <sub>324</sub>	58.780 <sub>291</sub>	50.07 <sub>26</sub>	4.215 <sub>238</sub>	28.89 <sub>77</sub>
17.9	4.269 <sub>321</sub>	48.38 <sub>16</sub>	41.85 <sub>34</sub>	35.68 <sub>297</sub>	59.071 <sub>327</sub>	49.81 <sub>4</sub>	4.453 <sub>269</sub>	29.66 <sub>96</sub>
27.9	4.590 <sub>346</sub>	48.54 <sub>43</sub>	42.19 <sub>39</sub>	32.71 <sub>260</sub>	59.398 <sub>353</sub>	49.85 <sub>33</sub>	4.722 <sub>291</sub>	30.62 <sub>110</sub>
Juli 7.8	4.936 <sub>363</sub>	48.97 <sub>71</sub>	42.58 <sub>44</sub>	30.11 <sub>218</sub>	59.751 <sub>371</sub>	50.18 <sub>62</sub>	5.013 <sub>307</sub>	31.72 <sub>122</sub>
17.8	5.299 <sub>372</sub>	49.68 <sub>95</sub>	43.02 <sub>46</sub>	27.93 <sub>168</sub>	60.122 <sub>380</sub>	50.80 <sub>87</sub>	5.320 <sub>315</sub>	32.94 <sub>130</sub>
27.8	5.671 <sub>371</sub>	50.63 <sub>116</sub>	43.48 <sub>48</sub>	26.25 <sub>114</sub>	60.502 <sub>381</sub>	51.67 <sub>111</sub>	5.635 <sub>316</sub>	34.24 <sub>135</sub>
Aug. 6.8	6.042 <sub>365</sub>	51.79 <sub>135</sub>	43.96 <sub>48</sub>	25.11 <sub>55</sub>	60.883 <sub>375</sub>	52.78 <sub>131</sub>	5.951 <sub>311</sub>	35.59 <sub>134</sub>
16.7	6.407 <sub>351</sub>	53.14 <sub>149</sub>	44.44 <sub>47</sub>	24.56 <sub>6</sub>	61.258 <sub>361</sub>	54.09 <sub>147</sub>	6.262 <sub>299</sub>	36.93 <sub>130</sub>
26.7	6.758 <sub>331</sub>	54.63 <sub>160</sub>	44.91 <sub>45</sub>	24.62 <sub>67</sub>	61.619 <sub>342</sub>	55.56 <sub>161</sub>	6.561 <sub>284</sub>	38.23 <sub>123</sub>
Sept. 5.7	7.089 <sub>308</sub>	56.23 <sub>168</sub>	45.36 <sub>41</sub>	25.29 <sub>127</sub>	61.961 <sub>318</sub>	57.17 <sub>170</sub>	6.845 <sub>264</sub>	39.46 <sub>113</sub>
15.6	7.397 <sub>281</sub>	57.91 <sub>172</sub>	45.77 <sub>36</sub>	26.56 <sub>181</sub>	62.279 <sub>291</sub>	58.87 <sub>176</sub>	7.109 <sub>241</sub>	40.59 <sub>100</sub>
25.6	7.678 <sub>250</sub>	59.63 <sub>172</sub>	46.13 <sub>30</sub>	28.37 <sub>231</sub>	62.570 <sub>261</sub>	60.63 <sub>179</sub>	7.350 <sub>216</sub>	41.59 <sub>87</sub>
Okt 5.6	7.928 <sub>218</sub>	61.35 <sub>171</sub>	46.43 <sub>24</sub>	30.68 <sub>272</sub>	62.831 <sub>227</sub>	62.42 <sub>179</sub>	7.566 <sub>189</sub>	42.46 <sub>73</sub>
15.6	8.146 <sub>184</sub>	63.06 <sub>167</sub>	46.67 <sub>17</sub>	33.40 <sub>303</sub>	63.058 <sub>192</sub>	64.21 <sub>177</sub>	7.755 <sub>162</sub>	43.19 <sub>59</sub>
25.5	8.330 <sub>147</sub>	64.73 <sub>160</sub>	46.84 <sub>10</sub>	36.43 <sub>322</sub>	63.250 <sub>155</sub>	65.98 <sub>171</sub>	7.917 <sub>131</sub>	43.78 <sub>45</sub>
Nov. 4.5	8.477 <sub>109</sub>	66.33 <sub>150</sub>	46.94 <sub>2</sub>	39.65 <sub>330</sub>	63.405 <sub>114</sub>	67.69 <sub>161</sub>	8.048 <sub>100</sub>	44.23 <sub>33</sub>
14.5	8.586 <sub>69</sub>	67.83 <sub>138</sub>	46.96 <sub>5</sub>	42.95 <sub>326</sub>	63.519 <sub>73</sub>	69.30 <sub>150</sub>	8.148 <sub>67</sub>	44.56 <sub>20</sub>
24.5	8.655 <sub>26</sub>	69.21 <sub>123</sub>	46.91 <sub>13</sub>	46.21 <sub>308</sub>	63.592 <sub>29</sub>	70.80 <sub>136</sub>	8.215 <sub>34</sub>	44.76 <sub>10</sub>
Dez. 4.4	8.681 <sub>16</sub>	70.44 <sub>104</sub>	46.78 <sub>19</sub>	49.29 <sub>280</sub>	63.621 <sub>14</sub>	72.16 <sub>117</sub>	8.249 <sub>0</sub>	44.86 <sub>0</sub>
14.4	8.665 <sub>58</sub>	71.48 <sub>84</sub>	46.59 <sub>26</sub>	52.09 <sub>243</sub>	63.607 <sub>60</sub>	73.33 <sub>35</sub>	8.249 <sub>36</sub>	44.86 <sub>10</sub>
24.4	8.607 <sub>100</sub>	72.32 <sub>59</sub>	46.33 <sub>30</sub>	54.52 <sub>197</sub>	63.547 <sub>102</sub>	74.28 <sub>70</sub>	8.213 <sub>70</sub>	44.76 <sub>19</sub>
34.3	8.507	72.91	46.03	56.49	63.445	74.98	8.143	44.57
Mittl. Ort sec δ, tgr δ	2.611 1.278	52.53 +0.796	43.49 2.003	51.89 -1.735	57.407 1.318	54.36 +0.859	3.045 1.060	30.16 +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.
1920	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° 34'	3 <sup>h</sup> 20 <sup>m</sup>	+8° 44'
Jan. 0.4	41.821 <sup>131</sup>	76.13 <sup>158</sup>	14.04 <sup>62</sup>	48.86 <sup>191</sup>	39.034 <sup>141</sup>	49.06 <sup>98</sup>	32.209 <sup>77</sup>	53.36 <sup>64</sup>
10.3	41.690 <sup>159</sup>	77.71 <sup>123</sup>	13.42 <sup>74</sup>	50.77 <sup>139</sup>	38.893 <sup>187</sup>	50.04 <sup>64</sup>	32.132 <sup>106</sup>	52.72 <sup>63</sup>
20.3	41.531 <sup>180</sup>	78.94 <sup>83</sup>	12.68 <sup>84</sup>	52.16 <sup>84</sup>	38.706 <sup>225</sup>	50.68 <sup>27</sup>	32.026 <sup>132</sup>	52.09 <sup>59</sup>
30.3	41.351 <sup>196</sup>	79.77 <sup>43</sup>	11.84 <sup>89</sup>	53.00 <sup>24</sup>	38.481 <sup>252</sup>	50.95 <sup>11</sup>	31.894 <sup>150</sup>	51.50 <sup>55</sup>
Feb. 9.3	41.155 <sup>202</sup>	80.20 <sup>2</sup>	10.95 <sup>91</sup>	53.24 <sup>35</sup>	38.229 <sup>266</sup>	50.84 <sup>50</sup>	31.744 <sup>162</sup>	50.95 <sup>50</sup>
19.2	40.953 <sup>202</sup>	80.22 <sup>40</sup>	10.04 <sup>89</sup>	52.89 <sup>93</sup>	37.963 <sup>266</sup>	50.34 <sup>85</sup>	31.582 <sup>165</sup>	50.45 <sup>44</sup>
29.2	40.751 <sup>191</sup>	79.82 <sup>80</sup>	9.15 <sup>83</sup>	51.96 <sup>147</sup>	37.697 <sup>252</sup>	49.49 <sup>119</sup>	31.417 <sup>158</sup>	50.01 <sup>35</sup>
März 10.2	40.560 <sup>171</sup>	79.02 <sup>118</sup>	8.32 <sup>72</sup>	50.49 <sup>193</sup>	37.445 <sup>224</sup>	48.30 <sup>146</sup>	31.259 <sup>141</sup>	49.66 <sup>25</sup>
20.1	40.389 <sup>143</sup>	77.84 <sup>153</sup>	7.60 <sup>60</sup>	48.56 <sup>233</sup>	37.221 <sup>181</sup>	46.84 <sup>166</sup>	31.118 <sup>116</sup>	49.41 <sup>12</sup>
30.1	40.246 <sup>107</sup>	76.31 <sup>187</sup>	7.00 <sup>43</sup>	46.23 <sup>261</sup>	37.040 <sup>129</sup>	45.18 <sup>181</sup>	31.002 <sup>83</sup>	49.29 <sup>3</sup>
Apr. 9.1	40.139 <sup>65</sup>	74.44 <sup>216</sup>	6.57 <sup>26</sup>	43.62 <sup>281</sup>	36.911 <sup>68</sup>	43.37 <sup>186</sup>	30.919 <sup>44</sup>	49.32 <sup>19</sup>
19.1	40.074 <sup>19</sup>	72.28 <sup>241</sup>	6.31 <sup>7</sup>	40.81 <sup>288</sup>	36.843 <sup>1</sup>	41.51 <sup>184</sup>	30.875 <sup>0</sup>	49.51 <sup>37</sup>
29.0	40.055 <sup>30</sup>	69.87 <sup>261</sup>	6.24 <sup>12</sup>	37.93 <sup>286</sup>	36.842 <sup>67</sup>	39.67 <sup>175</sup>	30.875 <sup>47</sup>	49.88 <sup>57</sup>
Mai 9.0	40.085 <sup>80</sup>	67.26 <sup>276</sup>	6.36 <sup>31</sup>	35.07 <sup>274</sup>	36.909 <sup>136</sup>	37.92 <sup>159</sup>	30.922 <sup>93</sup>	50.45 <sup>75</sup>
19.0	40.165 <sup>128</sup>	64.50 <sup>284</sup>	6.67 <sup>49</sup>	32.33 <sup>252</sup>	37.045 <sup>201</sup>	36.33 <sup>138</sup>	31.015 <sup>137</sup>	51.20 <sup>94</sup>
29.0	40.293 <sup>173</sup>	61.66 <sup>287</sup>	7.16 <sup>66</sup>	29.81 <sup>224</sup>	37.246 <sup>261</sup>	34.95 <sup>111</sup>	31.152 <sup>178</sup>	52.14 <sup>111</sup>
Juni 7.9	40.466 <sup>214</sup>	58.79 <sup>281</sup>	7.82 <sup>80</sup>	27.57 <sup>188</sup>	37.507 <sup>314</sup>	33.84 <sup>82</sup>	31.330 <sup>215</sup>	53.25 <sup>125</sup>
17.9	40.680 <sup>249</sup>	55.98 <sup>269</sup>	8.62 <sup>92</sup>	25.69 <sup>148</sup>	37.821 <sup>357</sup>	33.02 <sup>50</sup>	31.545 <sup>245</sup>	54.50 <sup>136</sup>
27.9	40.929 <sup>277</sup>	53.29 <sup>250</sup>	9.54 <sup>102</sup>	24.21 <sup>105</sup>	38.178 <sup>391</sup>	32.52 <sup>16</sup>	31.790 <sup>270</sup>	55.86 <sup>143</sup>
Juli 7.8	41.206 <sup>299</sup>	50.79 <sup>223</sup>	10.56 <sup>109</sup>	23.16 <sup>57</sup>	38.569 <sup>416</sup>	32.36 <sup>16</sup>	32.060 <sup>286</sup>	57.29 <sup>147</sup>
17.8	41.505 <sup>311</sup>	48.56 <sup>190</sup>	11.65 <sup>114</sup>	22.59 <sup>11</sup>	38.985 <sup>430</sup>	32.52 <sup>48</sup>	32.346 <sup>297</sup>	58.76 <sup>145</sup>
27.8	41.816 <sup>316</sup>	46.66 <sup>151</sup>	12.79 <sup>116</sup>	22.48 <sup>37</sup>	39.415 <sup>436</sup>	33.00 <sup>77</sup>	32.643 <sup>300</sup>	60.21 <sup>138</sup>
Aug. 6.8	42.132 <sup>314</sup>	45.15 <sup>107</sup>	13.95 <sup>116</sup>	22.85 <sup>82</sup>	39.851 <sup>433</sup>	33.77 <sup>106</sup>	32.943 <sup>297</sup>	61.59 <sup>129</sup>
16.7	42.446 <sup>305</sup>	44.08 <sup>61</sup>	15.11 <sup>114</sup>	23.67 <sup>128</sup>	40.284 <sup>421</sup>	34.83 <sup>131</sup>	33.240 <sup>288</sup>	62.88 <sup>114</sup>
26.7	42.751 <sup>289</sup>	43.47 <sup>11</sup>	16.25 <sup>109</sup>	24.95 <sup>168</sup>	40.705 <sup>404</sup>	36.14 <sup>153</sup>	33.528 <sup>276</sup>	64.02 <sup>96</sup>
Sept. 5.7	43.040 <sup>268</sup>	43.36 <sup>38</sup>	17.34 <sup>103</sup>	26.63 <sup>207</sup>	41.109 <sup>380</sup>	37.67 <sup>171</sup>	33.804 <sup>258</sup>	64.98 <sup>76</sup>
15.7	43.308 <sup>241</sup>	43.74 <sup>86</sup>	18.37 <sup>94</sup>	28.70 <sup>240</sup>	41.489 <sup>352</sup>	39.38 <sup>185</sup>	34.062 <sup>238</sup>	65.74 <sup>56</sup>
25.6	43.549 <sup>213</sup>	44.60 <sup>131</sup>	19.31 <sup>83</sup>	31.10 <sup>270</sup>	41.841 <sup>319</sup>	41.23 <sup>198</sup>	34.300 <sup>214</sup>	66.30 <sup>33</sup>
Okt. 5.6	43.762 <sup>179</sup>	45.91 <sup>169</sup>	20.14 <sup>73</sup>	33.80 <sup>294</sup>	42.160 <sup>283</sup>	43.21 <sup>205</sup>	34.514 <sup>190</sup>	66.63 <sup>13</sup>
15.6	43.941 <sup>144</sup>	47.60 <sup>201</sup>	20.87 <sup>60</sup>	36.74 <sup>312</sup>	42.443 <sup>241</sup>	45.26 <sup>209</sup>	34.704 <sup>164</sup>	66.76 <sup>7</sup>
25.5	44.085 <sup>107</sup>	49.61 <sup>225</sup>	21.47 <sup>45</sup>	39.86 <sup>324</sup>	42.684 <sup>199</sup>	47.35 <sup>210</sup>	34.868 <sup>136</sup>	66.69 <sup>23</sup>
Nov. 4.5	44.192 <sup>70</sup>	51.86 <sup>239</sup>	21.92 <sup>29</sup>	43.10 <sup>327</sup>	42.883 <sup>152</sup>	49.45 <sup>206</sup>	35.004 <sup>105</sup>	66.46 <sup>38</sup>
14.5	44.262 <sup>32</sup>	54.25 <sup>245</sup>	22.21 <sup>12</sup>	46.37 <sup>324</sup>	43.035 <sup>101</sup>	51.51 <sup>199</sup>	35.109 <sup>75</sup>	66.08 <sup>48</sup>
24.5	44.294 <sup>6</sup>	56.70 <sup>241</sup>	22.33 <sup>4</sup>	49.61 <sup>310</sup>	43.136 <sup>49</sup>	53.50 <sup>185</sup>	35.184 <sup>42</sup>	65.60 <sup>56</sup>
Dez. 4.4	44.288 <sup>43</sup>	59.11 <sup>227</sup>	22.29 <sup>22</sup>	52.71 <sup>290</sup>	43.185 <sup>6</sup>	55.35 <sup>168</sup>	35.226 <sup>8</sup>	65.04 <sup>61</sup>
14.4	44.245 <sup>80</sup>	61.38 <sup>206</sup>	22.07 <sup>39</sup>	55.61 <sup>258</sup>	43.179 <sup>61</sup>	57.03 <sup>146</sup>	35.234 <sup>26</sup>	64.43 <sup>64</sup>
24.4	44.165 <sup>113</sup>	63.44 <sup>178</sup>	21.68 <sup>54</sup>	58.19 <sup>220</sup>	43.118 <sup>114</sup>	58.49 <sup>118</sup>	35.208 <sup>59</sup>	63.79 <sup>64</sup>
34.4	44.052	65.22	21.14	60.39	43.004	59.67	35.149	63.15
Mittl. Ort sec $\delta$ , tg $\delta$	40.287 1.147	66.53 -0.561	6.74 4.600	34.40 +4.489	36.137 1.542	39.23 +1.174	30.342 1.012	53.42 +0.154

Mittlere Zeit Greenw.	122) 2 H. Camelop.		125) <i>f</i> Tauri		127) $\epsilon$ Eridani*)		131) $\delta$ Persei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	3 <sup>h</sup> 22 <sup>m</sup>	+59° 39'	3 <sup>h</sup> 26 <sup>m</sup>	+12° 39'	3 <sup>h</sup> 29 <sup>m</sup>	-9° 43'	3 <sup>h</sup> 37 <sup>m</sup>	+47° 31'
1920								
Jan. 0.4	38.243 <sup>199</sup>	57.73 <sup>140</sup>	29.150 <sup>73</sup>	48.76 <sup>49</sup>	11.345 <sup>87</sup>	47.40 <sup>128</sup>	16.186 <sup>115</sup>	66.48 <sup>102</sup>
10.3	38.044 <sup>259</sup>	59.13 <sup>100</sup>	29.077 <sup>104</sup>	48.27 <sup>51</sup>	11.258 <sup>117</sup>	48.68 <sup>107</sup>	16.071 <sup>162</sup>	67.50 <sup>71</sup>
20.3	37.785 <sup>306</sup>	60.13 <sup>56</sup>	28.973 <sup>131</sup>	47.76 <sup>52</sup>	11.141 <sup>141</sup>	49.75 <sup>85</sup>	15.909 <sup>204</sup>	68.21 <sup>39</sup>
30.3	37.479 <sup>340</sup>	60.69 <sup>10</sup>	28.842 <sup>152</sup>	47.24 <sup>51</sup>	11.000 <sup>161</sup>	50.60 <sup>62</sup>	15.705 <sup>235</sup>	68.60 <sup>4</sup>
Feb. 9.3	37.139 <sup>358</sup>	60.79 <sup>37</sup>	28.690 <sup>164</sup>	46.73 <sup>51</sup>	10.839 <sup>171</sup>	51.22 <sup>37</sup>	15.470 <sup>253</sup>	68.64 <sup>33</sup>
19.2	36.781 <sup>358</sup>	60.42 <sup>83</sup>	28.526 <sup>167</sup>	46.22 <sup>47</sup>	10.668 <sup>174</sup>	51.59 <sup>11</sup>	15.217 <sup>259</sup>	68.31 <sup>66</sup>
29.2	36.423 <sup>339</sup>	59.59 <sup>125</sup>	28.359 <sup>162</sup>	45.75 <sup>44</sup>	10.494 <sup>169</sup>	51.70 <sup>15</sup>	14.958 <sup>251</sup>	67.65 <sup>99</sup>
März 10.2	36.084 <sup>301</sup>	58.34 <sup>161</sup>	28.197 <sup>146</sup>	45.31 <sup>37</sup>	10.325 <sup>153</sup>	51.55 <sup>41</sup>	14.707 <sup>227</sup>	66.66 <sup>126</sup>
20.1	35.783 <sup>249</sup>	56.73 <sup>190</sup>	28.051 <sup>121</sup>	44.94 <sup>28</sup>	10.172 <sup>129</sup>	51.14 <sup>67</sup>	14.480 <sup>191</sup>	65.40 <sup>147</sup>
30.1	35.534 <sup>182</sup>	54.83 <sup>211</sup>	27.930 <sup>88</sup>	44.66 <sup>16</sup>	10.043 <sup>97</sup>	50.47 <sup>92</sup>	14.289 <sup>144</sup>	63.93 <sup>163</sup>
Apr. 9.1	35.352 <sup>105</sup>	52.72 <sup>224</sup>	27.842 <sup>48</sup>	44.50 <sup>2</sup>	9.946 <sup>59</sup>	49.55 <sup>117</sup>	14.145 <sup>87</sup>	62.30 <sup>171</sup>
19.1	35.247 <sup>22</sup>	50.48 <sup>227</sup>	27.794 <sup>4</sup>	44.48 <sup>14</sup>	9.887 <sup>17</sup>	48.38 <sup>140</sup>	14.058 <sup>25</sup>	60.59 <sup>172</sup>
29.0	35.225 <sup>65</sup>	48.21 <sup>222</sup>	27.790 <sup>43</sup>	44.62 <sup>33</sup>	9.870 <sup>28</sup>	46.98 <sup>160</sup>	14.033 <sup>41</sup>	58.87 <sup>165</sup>
Mai 9.0	35.200 <sup>151</sup>	45.99 <sup>209</sup>	27.833 <sup>90</sup>	44.95 <sup>51</sup>	9.898 <sup>74</sup>	45.38 <sup>179</sup>	14.074 <sup>108</sup>	57.22 <sup>153</sup>
19.0	35.441 <sup>234</sup>	43.90 <sup>189</sup>	27.923 <sup>135</sup>	45.46 <sup>69</sup>	9.972 <sup>118</sup>	43.59 <sup>194</sup>	14.182 <sup>171</sup>	55.69 <sup>135</sup>
29.0	35.675 <sup>309</sup>	42.01 <sup>162</sup>	28.058 <sup>178</sup>	46.15 <sup>88</sup>	10.090 <sup>160</sup>	41.65 <sup>203</sup>	14.353 <sup>231</sup>	54.34 <sup>111</sup>
Juni 7.9	35.984 <sup>376</sup>	40.39 <sup>132</sup>	28.236 <sup>214</sup>	47.03 <sup>103</sup>	10.250 <sup>197</sup>	39.62 <sup>210</sup>	14.584 <sup>283</sup>	53.23 <sup>86</sup>
17.9	36.360 <sup>432</sup>	39.07 <sup>96</sup>	28.450 <sup>246</sup>	48.06 <sup>116</sup>	10.447 <sup>230</sup>	37.52 <sup>209</sup>	14.867 <sup>329</sup>	52.37 <sup>57</sup>
27.9	36.792 <sup>477</sup>	38.11 <sup>60</sup>	28.696 <sup>271</sup>	49.22 <sup>126</sup>	10.677 <sup>255</sup>	35.43 <sup>204</sup>	15.196 <sup>365</sup>	51.80 <sup>28</sup>
Juli 7.8	37.269 <sup>510</sup>	37.51 <sup>22</sup>	28.967 <sup>288</sup>	50.48 <sup>133</sup>	10.932 <sup>273</sup>	33.39 <sup>192</sup>	15.561 <sup>392</sup>	51.52 <sup>3</sup>
17.8	37.779 <sup>531</sup>	37.29 <sup>17</sup>	29.255 <sup>300</sup>	51.81 <sup>134</sup>	11.205 <sup>286</sup>	31.47 <sup>175</sup>	15.953 <sup>410</sup>	51.55 <sup>32</sup>
27.8	38.310 <sup>541</sup>	37.46 <sup>53</sup>	29.555 <sup>304</sup>	53.15 <sup>132</sup>	11.491 <sup>291</sup>	29.72 <sup>151</sup>	16.363 <sup>419</sup>	51.87 <sup>60</sup>
Aug. 6.8	38.851 <sup>540</sup>	37.99 <sup>89</sup>	29.859 <sup>301</sup>	54.47 <sup>125</sup>	11.782 <sup>291</sup>	28.21 <sup>124</sup>	16.782 <sup>420</sup>	52.47 <sup>86</sup>
16.7	39.391 <sup>528</sup>	38.88 <sup>122</sup>	30.160 <sup>294</sup>	55.72 <sup>115</sup>	12.073 <sup>283</sup>	26.97 <sup>93</sup>	17.202 <sup>413</sup>	53.33 <sup>109</sup>
26.7	39.919 <sup>509</sup>	40.10 <sup>153</sup>	30.454 <sup>282</sup>	56.87 <sup>101</sup>	12.356 <sup>270</sup>	26.04 <sup>57</sup>	17.615 <sup>400</sup>	54.42 <sup>130</sup>
Sept. 5.7	40.428 <sup>481</sup>	41.63 <sup>179</sup>	30.736 <sup>265</sup>	57.88 <sup>86</sup>	12.626 <sup>254</sup>	25.47 <sup>21</sup>	18.015 <sup>380</sup>	55.72 <sup>147</sup>
15.7	40.909 <sup>446</sup>	43.42 <sup>202</sup>	31.001 <sup>245</sup>	58.74 <sup>67</sup>	12.880 <sup>234</sup>	25.26 <sup>15</sup>	18.395 <sup>357</sup>	57.19 <sup>161</sup>
25.6	41.355 <sup>406</sup>	45.44 <sup>222</sup>	31.246 <sup>223</sup>	59.41 <sup>49</sup>	13.114 <sup>211</sup>	25.41 <sup>50</sup>	18.752 <sup>328</sup>	58.80 <sup>173</sup>
Okt. 5.6	41.761 <sup>359</sup>	47.66 <sup>237</sup>	31.469 <sup>199</sup>	59.90 <sup>31</sup>	13.325 <sup>185</sup>	25.91 <sup>83</sup>	19.080 <sup>296</sup>	60.53 <sup>182</sup>
15.6	42.120 <sup>307</sup>	50.03 <sup>249</sup>	31.668 <sup>173</sup>	60.21 <sup>13</sup>	13.510 <sup>157</sup>	26.74 <sup>111</sup>	19.376 <sup>259</sup>	62.35 <sup>188</sup>
25.5	42.427 <sup>250</sup>	52.52 <sup>254</sup>	31.841 <sup>144</sup>	60.34 <sup>2</sup>	13.667 <sup>128</sup>	27.85 <sup>133</sup>	19.635 <sup>220</sup>	64.23 <sup>189</sup>
Nov. 4.5	42.677 <sup>187</sup>	55.06 <sup>255</sup>	31.985 <sup>115</sup>	60.32 <sup>14</sup>	13.795 <sup>97</sup>	29.18 <sup>150</sup>	19.855 <sup>175</sup>	66.12 <sup>189</sup>
14.5	42.864 <sup>121</sup>	57.61 <sup>249</sup>	32.100 <sup>84</sup>	60.18 <sup>26</sup>	13.892 <sup>65</sup>	30.68 <sup>160</sup>	20.030 <sup>128</sup>	68.01 <sup>183</sup>
24.5	42.985 <sup>51</sup>	60.10 <sup>238</sup>	32.184 <sup>50</sup>	59.92 <sup>34</sup>	13.957 <sup>32</sup>	32.28 <sup>162</sup>	20.158 <sup>76</sup>	69.84 <sup>174</sup>
Dez. 4.4	43.036 <sup>21</sup>	62.48 <sup>220</sup>	32.234 <sup>15</sup>	59.58 <sup>39</sup>	13.989 <sup>2</sup>	33.90 <sup>160</sup>	20.234 <sup>23</sup>	71.58 <sup>161</sup>
14.4	43.015 <sup>94</sup>	64.68 <sup>195</sup>	32.249 <sup>20</sup>	59.19 <sup>44</sup>	13.987 <sup>37</sup>	35.50 <sup>151</sup>	20.257 <sup>32</sup>	73.19 <sup>143</sup>
24.4	42.921 <sup>164</sup>	66.63 <sup>164</sup>	32.229 <sup>55</sup>	58.75 <sup>48</sup>	13.950 <sup>70</sup>	37.01 <sup>136</sup>	20.225 <sup>86</sup>	74.62 <sup>119</sup>
34.4	42.757	68.27	32.174	58.27	13.880	38.37	20.139	75.81
Mittl. Ort sec $\delta$ , tg $\delta$	34.626 1.980	46.50 +1.709	27.206 1.025	48.07 +0.225	9.630 1.015	42.08 -0.171	13.278 1.481	58.56 +1.093

\*) Die jährliche Parallaxe (0.32) ist bereits berücksichtigt

Mittlere Zeit Greenw.	134) $\nu$ Persei		138) 5 H. Camelop.		139) $\eta$ Tauri		141) $\beta$ Reticuli	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	3 <sup>h</sup> 39 <sup>m</sup>	+42° 19'	3 <sup>h</sup> 41 <sup>m</sup>	+71° 5'	3 <sup>h</sup> 42 <sup>m</sup>	+23° 51'	3 <sup>h</sup> 43 <sup>m</sup>	-65° 3'
Jan. 0.4	47.859 <sub>96</sub>	43.79 <sub>81</sub>	58.75 <sub>32</sub>	26.08 <sub>199</sub>	45.729 <sub>66</sub>	34.05 <sub>1</sub>	13.55 <sub>38</sub>	45.90 <sub>215</sub>
10.3	47.763 <sub>141</sub>	44.60 <sub>55</sub>	58.43 <sub>42</sub>	28.07 <sub>155</sub>	45.663 <sub>103</sub>	34.04 <sub>10</sub>	13.17 <sub>43</sub>	48.05 <sub>163</sub>
20.3	47.622 <sub>179</sub>	45.15 <sub>27</sub>	58.01 <sub>49</sub>	29.62 <sub>107</sub>	45.560 <sub>135</sub>	33.94 <sub>22</sub>	12.74 <sub>49</sub>	49.68 <sub>108</sub>
30.3	47.443 <sub>209</sub>	45.42 <sub>4</sub>	57.52 <sub>56</sub>	30.69 <sub>54</sub>	45.425 <sub>160</sub>	33.72 <sub>33</sub>	12.25 <sub>51</sub>	50.76 <sub>50</sub>
Feb. 9.3	47.234 <sub>227</sub>	45.38 <sub>34</sub>	56.96 <sub>59</sub>	31.23 <sub>0</sub>	45.265 <sub>176</sub>	33.39 <sub>44</sub>	11.74 <sub>52</sub>	51.26 <sub>7</sub>
19.2	47.007 <sub>234</sub>	45.04 <sub>63</sub>	56.37 <sub>60</sub>	31.23 <sub>55</sub>	45.089 <sub>183</sub>	32.95 <sub>53</sub>	11.22 <sub>53</sub>	51.19 <sub>64</sub>
29.2	46.773 <sub>227</sub>	44.41 <sub>90</sub>	55.77 <sub>57</sub>	30.68 <sub>107</sub>	44.906 <sub>179</sub>	32.42 <sub>61</sub>	10.69 <sub>51</sub>	50.55 <sub>119</sub>
März 10.2	46.546 <sub>206</sub>	43.51 <sub>113</sub>	55.20 <sub>53</sub>	29.61 <sub>154</sub>	44.727 <sub>165</sub>	31.81 <sub>66</sub>	10.18 <sub>47</sub>	49.36 <sub>169</sub>
20.2	46.340 <sub>175</sub>	42.38 <sub>131</sub>	54.67 <sub>44</sub>	28.07 <sub>195</sub>	44.562 <sub>139</sub>	31.15 <sub>68</sub>	9.71 <sub>44</sub>	47.67 <sub>214</sub>
30.1	46.165 <sub>131</sub>	41.07 <sub>142</sub>	54.23 <sub>36</sub>	26.12 <sub>226</sub>	44.423 <sub>106</sub>	30.47 <sub>65</sub>	9.27 <sub>37</sub>	45.53 <sub>255</sub>
Apr. 9.1	46.034 <sub>80</sub>	39.65 <sub>147</sub>	53.87 <sub>24</sub>	23.86 <sub>249</sub>	44.317 <sub>64</sub>	29.82 <sub>60</sub>	8.90 <sub>30</sub>	42.98 <sub>290</sub>
19.1	45.954 <sub>23</sub>	38.18 <sub>146</sub>	53.63 <sub>11</sub>	21.37 <sub>262</sub>	44.253 <sub>18</sub>	29.22 <sub>49</sub>	8.60 <sub>21</sub>	40.08 <sub>318</sub>
29.0	45.931 <sub>38</sub>	36.72 <sub>139</sub>	53.52 <sub>1</sub>	18.75 <sub>266</sub>	44.235 <sub>31</sub>	28.73 <sub>36</sub>	8.39 <sub>14</sub>	36.90 <sub>338</sub>
Mai 9.0	45.969 <sub>99</sub>	35.33 <sub>126</sub>	53.53 <sub>15</sub>	16.09 <sub>259</sub>	44.266 <sub>82</sub>	28.37 <sub>19</sub>	8.25 <sub>4</sub>	33.52 <sub>351</sub>
19.0	46.068 <sub>158</sub>	34.07 <sub>107</sub>	53.68 <sub>27</sub>	13.50 <sub>246</sub>	44.348 <sub>130</sub>	28.18 <sub>2</sub>	8.21 <sub>5</sub>	30.01 <sub>356</sub>
29.0	46.226 <sub>212</sub>	33.00 <sub>85</sub>	53.95 <sub>39</sub>	11.04 <sub>223</sub>	44.478 <sub>176</sub>	28.16 <sub>17</sub>	8.26 <sub>14</sub>	26.45 <sub>353</sub>
Juni 7.9	46.438 <sub>261</sub>	32.15 <sub>61</sub>	54.34 <sub>50</sub>	8.81 <sub>195</sub>	44.654 <sub>216</sub>	28.33 <sub>37</sub>	8.40 <sub>23</sub>	22.92 <sub>340</sub>
17.9	46.699 <sub>304</sub>	31.54 <sub>35</sub>	54.84 <sub>59</sub>	6.86 <sub>160</sub>	44.870 <sub>251</sub>	28.70 <sub>54</sub>	8.63 <sub>31</sub>	19.52 <sub>318</sub>
27.9	47.003 <sub>337</sub>	31.19 <sub>7</sub>	55.43 <sub>67</sub>	5.26 <sub>123</sub>	45.121 <sub>279</sub>	29.24 <sub>71</sub>	8.94 <sub>38</sub>	16.34 <sub>289</sub>
Juli 7.9	47.340 <sub>362</sub>	31.12 <sub>19</sub>	56.10 <sub>72</sub>	4.03 <sub>83</sub>	45.400 <sub>300</sub>	29.95 <sub>85</sub>	9.32 <sub>44</sub>	13.45 <sub>251</sub>
17.8	47.702 <sub>378</sub>	31.31 <sub>45</sub>	56.82 <sub>78</sub>	3.20 <sub>40</sub>	45.700 <sub>314</sub>	30.80 <sub>96</sub>	9.76 <sub>49</sub>	10.94 <sub>205</sub>
27.8	48.080 <sub>387</sub>	31.76 <sub>68</sub>	57.60 <sub>80</sub>	2.80 <sub>2</sub>	46.014 <sub>321</sub>	31.76 <sub>104</sub>	10.25 <sub>53</sub>	8.89 <sub>153</sub>
Aug. 6.8	48.467 <sub>388</sub>	32.44 <sub>90</sub>	58.40 <sub>81</sub>	2.82 <sub>44</sub>	46.335 <sub>321</sub>	32.80 <sub>108</sub>	10.78 <sub>55</sub>	7.36 <sub>96</sub>
16.7	48.855 <sub>382</sub>	33.34 <sub>109</sub>	59.21 <sub>80</sub>	3.26 <sub>86</sub>	46.656 <sub>316</sub>	33.88 <sub>109</sub>	11.33 <sub>55</sub>	6.40 <sub>34</sub>
26.7	49.237 <sub>369</sub>	34.43 <sub>124</sub>	60.01 <sub>79</sub>	4.12 <sub>124</sub>	46.972 <sub>305</sub>	34.97 <sub>107</sub>	11.88 <sub>55</sub>	6.06 <sub>28</sub>
Sept. 5.7	49.606 <sub>352</sub>	35.67 <sub>137</sub>	60.80 <sub>75</sub>	5.36 <sub>161</sub>	47.277 <sub>291</sub>	36.04 <sub>102</sub>	12.43 <sub>51</sub>	6.34 <sub>91</sub>
15.7	49.958 <sub>330</sub>	37.04 <sub>147</sub>	61.55 <sub>71</sub>	6.97 <sub>194</sub>	47.568 <sub>273</sub>	37.06 <sub>95</sub>	12.94 <sub>47</sub>	7.25 <sub>151</sub>
25.6	50.288 <sub>305</sub>	38.51 <sub>154</sub>	62.26 <sub>66</sub>	8.91 <sub>223</sub>	47.841 <sub>251</sub>	38.01 <sub>86</sub>	13.41 <sub>42</sub>	8.76 <sub>207</sub>
Okt. 5.6	50.593 <sub>275</sub>	40.05 <sub>160</sub>	62.92 <sub>58</sub>	11.14 <sub>249</sub>	48.092 <sub>229</sub>	38.87 <sub>77</sub>	13.83 <sub>36</sub>	10.83 <sub>255</sub>
15.6	50.868 <sub>243</sub>	41.65 <sub>162</sub>	63.50 <sub>51</sub>	13.63 <sub>269</sub>	48.321 <sub>201</sub>	39.64 <sub>68</sub>	14.19 <sub>28</sub>	13.38 <sub>294</sub>
25.6	51.111 <sub>207</sub>	43.27 <sub>161</sub>	64.01 <sub>42</sub>	16.32 <sub>285</sub>	48.522 <sub>174</sub>	40.32 <sub>58</sub>	14.47 <sub>19</sub>	16.32 <sub>323</sub>
Nov. 4.5	51.318 <sub>167</sub>	44.88 <sub>159</sub>	64.43 <sub>32</sub>	19.17 <sub>294</sub>	48.696 <sub>142</sub>	40.90 <sub>49</sub>	14.66 <sub>10</sub>	19.55 <sub>340</sub>
14.5	51.485 <sub>124</sub>	46.47 <sub>154</sub>	64.75 <sub>21</sub>	22.11 <sub>294</sub>	48.838 <sub>109</sub>	41.39 <sub>40</sub>	14.76 <sub>1</sub>	22.95 <sub>344</sub>
24.5	51.609 <sub>78</sub>	48.01 <sub>144</sub>	64.96 <sub>9</sub>	25.05 <sub>289</sub>	48.947 <sub>73</sub>	41.79 <sub>32</sub>	14.77 <sub>9</sub>	26.39 <sub>335</sub>
Dez. 4.4	51.687 <sub>29</sub>	49.45 <sub>132</sub>	65.05 <sub>2</sub>	27.94 <sub>276</sub>	49.020 <sub>34</sub>	42.11 <sub>24</sub>	14.68 <sub>17</sub>	29.74 <sub>316</sub>
14.4	51.716 <sub>20</sub>	50.77 <sub>116</sub>	65.03 <sub>14</sub>	30.70 <sub>253</sub>	49.054 <sub>5</sub>	42.35 <sub>16</sub>	14.51 <sub>25</sub>	32.90 <sub>283</sub>
24.4	51.696 <sub>71</sub>	51.93 <sub>97</sub>	64.89 <sub>26</sub>	33.23 <sub>223</sub>	49.049 <sub>45</sub>	42.51 <sub>6</sub>	14.26 <sub>34</sub>	35.73 <sub>244</sub>
34.4	51.625	52.90	64.63	35.46	49.004	42.57	13.92	38.17
Mittl. Ort sec $\delta$ , tg $\delta$	45.163 1.353	37.07 +0.911	53.22 3.085	15.19 +2.919	43.530 1.093	31.51 +0.442	11.47 2.371	30.90 -2.150

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	140) $\tau^6$ Eridani		143) $g$ Eridani		146) $\gamma$ Hydri		144) $\zeta$ Persei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	3 <sup>h</sup> 43 <sup>m</sup>	-23° 28'	3 <sup>h</sup> 46 <sup>m</sup>	-36° 26'	3 <sup>h</sup> 48 <sup>m</sup>	-74° 28'	3 <sup>h</sup> 49 <sup>m</sup>	+31° 38'
Jan. 0.4	26.026 <sup>98</sup>	75.41 <sup>176</sup>	29.337 <sup>133</sup>	41.98 <sup>204</sup>	30.47 <sup>65</sup>	79.83 <sup>212</sup>	8.344 <sup>69</sup>	53.56 <sup>36</sup>
10.4	25.928 <sup>130</sup>	77.17 <sup>146</sup>	29.204 <sup>168</sup>	44.02 <sup>165</sup>	29.82 <sup>74</sup>	81.95 <sup>160</sup>	8.275 <sup>109</sup>	53.92 <sup>21</sup>
20.3	25.798 <sup>158</sup>	78.63 <sup>112</sup>	29.036 <sup>198</sup>	45.67 <sup>123</sup>	29.08 <sup>81</sup>	83.55 <sup>104</sup>	8.166 <sup>144</sup>	54.13 <sup>2</sup>
30.3	25.640 <sup>180</sup>	79.75 <sup>76</sup>	28.838 <sup>222</sup>	46.90 <sup>77</sup>	28.27 <sup>86</sup>	84.59 <sup>46</sup>	8.022 <sup>173</sup>	54.15 <sup>16</sup>
Feb. 9.3	25.460 <sup>194</sup>	80.51 <sup>39</sup>	28.616 <sup>236</sup>	47.67 <sup>30</sup>	27.41 <sup>88</sup>	85.05 <sup>12</sup>	7.849 <sup>191</sup>	53.99 <sup>35</sup>
19.2	25.266 <sup>200</sup>	80.90 <sup>2</sup>	28.380 <sup>241</sup>	47.97 <sup>17</sup>	26.53 <sup>88</sup>	84.93 <sup>70</sup>	7.658 <sup>199</sup>	53.64 <sup>53</sup>
29.2	25.066 <sup>195</sup>	80.92 <sup>36</sup>	28.139 <sup>236</sup>	47.80 <sup>62</sup>	25.65 <sup>85</sup>	84.23 <sup>123</sup>	7.459 <sup>197</sup>	53.11 <sup>70</sup>
März 10.2	24.871 <sup>182</sup>	80.56 <sup>73</sup>	27.903 <sup>221</sup>	47.18 <sup>106</sup>	24.80 <sup>79</sup>	83.00 <sup>173</sup>	7.262 <sup>181</sup>	52.41 <sup>82</sup>
20.2	24.689 <sup>159</sup>	79.83 <sup>107</sup>	27.682 <sup>196</sup>	46.12 <sup>148</sup>	24.01 <sup>73</sup>	81.27 <sup>218</sup>	7.081 <sup>155</sup>	51.59 <sup>91</sup>
30.1	24.530 <sup>129</sup>	78.76 <sup>140</sup>	27.486 <sup>163</sup>	44.64 <sup>185</sup>	23.28 <sup>64</sup>	79.09 <sup>259</sup>	6.926 <sup>120</sup>	50.68 <sup>97</sup>
Apr. 9.1	24.401 <sup>90</sup>	77.36 <sup>170</sup>	27.323 <sup>122</sup>	42.79 <sup>219</sup>	22.64 <sup>53</sup>	76.50 <sup>292</sup>	6.806 <sup>76</sup>	49.71 <sup>95</sup>
19.1	24.311 <sup>48</sup>	75.66 <sup>168</sup>	27.201 <sup>74</sup>	40.60 <sup>249</sup>	22.11 <sup>41</sup>	73.58 <sup>319</sup>	6.730 <sup>26</sup>	48.76 <sup>91</sup>
29.1	24.263 <sup>1</sup>	73.68 <sup>220</sup>	27.127 <sup>24</sup>	38.11 <sup>272</sup>	21.70 <sup>28</sup>	70.39 <sup>339</sup>	6.704 <sup>27</sup>	47.85 <sup>80</sup>
Mai 9.0	24.262 <sup>46</sup>	71.48 <sup>240</sup>	27.103 <sup>28</sup>	35.39 <sup>291</sup>	21.42 <sup>14</sup>	67.00 <sup>351</sup>	6.731 <sup>79</sup>	47.05 <sup>67</sup>
19.0	24.308 <sup>94</sup>	69.08 <sup>252</sup>	27.131 <sup>81</sup>	32.48 <sup>302</sup>	21.28 <sup>1</sup>	63.49 <sup>355</sup>	6.810 <sup>133</sup>	46.38 <sup>49</sup>
29.0	24.402 <sup>139</sup>	66.56 <sup>261</sup>	27.212 <sup>131</sup>	29.46 <sup>306</sup>	21.27 <sup>14</sup>	59.94 <sup>350</sup>	6.943 <sup>181</sup>	45.89 <sup>30</sup>
Juni 7.9	24.541 <sup>180</sup>	63.95 <sup>261</sup>	27.343 <sup>179</sup>	26.40 <sup>303</sup>	21.41 <sup>28</sup>	56.44 <sup>337</sup>	7.124 <sup>225</sup>	45.59 <sup>10</sup>
17.9	24.721 <sup>216</sup>	61.34 <sup>256</sup>	27.522 <sup>220</sup>	23.37 <sup>292</sup>	21.69 <sup>40</sup>	53.07 <sup>315</sup>	7.349 <sup>262</sup>	45.49 <sup>11</sup>
27.9	24.937 <sup>247</sup>	58.78 <sup>243</sup>	27.742 <sup>257</sup>	20.45 <sup>273</sup>	22.09 <sup>52</sup>	49.92 <sup>284</sup>	7.611 <sup>293</sup>	45.60 <sup>32</sup>
Juli 7.9	25.184 <sup>271</sup>	56.35 <sup>223</sup>	27.999 <sup>286</sup>	17.72 <sup>245</sup>	22.61 <sup>62</sup>	47.08 <sup>246</sup>	7.904 <sup>317</sup>	45.92 <sup>52</sup>
17.8	25.455 <sup>288</sup>	54.12 <sup>197</sup>	28.285 <sup>308</sup>	15.27 <sup>212</sup>	23.23 <sup>71</sup>	44.62 <sup>199</sup>	8.221 <sup>332</sup>	46.44 <sup>68</sup>
27.8	25.743 <sup>298</sup>	52.15 <sup>164</sup>	28.593 <sup>322</sup>	13.15 <sup>171</sup>	23.94 <sup>77</sup>	42.63 <sup>148</sup>	8.553 <sup>341</sup>	47.12 <sup>82</sup>
Aug. 6.8	26.041 <sup>302</sup>	50.51 <sup>126</sup>	28.915 <sup>328</sup>	11.44 <sup>124</sup>	24.71 <sup>82</sup>	41.15 <sup>90</sup>	8.894 <sup>342</sup>	47.94 <sup>94</sup>
16.8	26.343 <sup>298</sup>	49.25 <sup>84</sup>	29.243 <sup>327</sup>	10.20 <sup>73</sup>	25.53 <sup>82</sup>	40.25 <sup>29</sup>	9.236 <sup>338</sup>	48.88 <sup>103</sup>
26.7	26.641 <sup>289</sup>	48.41 <sup>38</sup>	29.570 <sup>318</sup>	9.47 <sup>20</sup>	26.35 <sup>82</sup>	39.96 <sup>34</sup>	9.574 <sup>329</sup>	49.91 <sup>108</sup>
Sept. 5.7	26.930 <sup>274</sup>	48.03 <sup>9</sup>	29.888 <sup>303</sup>	9.27 <sup>36</sup>	27.17 <sup>79</sup>	40.30 <sup>97</sup>	9.903 <sup>314</sup>	50.99 <sup>112</sup>
15.7	27.204 <sup>255</sup>	48.12 <sup>56</sup>	30.191 <sup>281</sup>	9.63 <sup>89</sup>	27.96 <sup>72</sup>	41.27 <sup>156</sup>	10.217 <sup>296</sup>	52.11 <sup>112</sup>
25.6	27.459 <sup>232</sup>	48.68 <sup>100</sup>	30.472 <sup>255</sup>	10.52 <sup>140</sup>	28.68 <sup>64</sup>	42.83 <sup>212</sup>	10.513 <sup>274</sup>	53.23 <sup>110</sup>
Okt. 5.6	27.691 <sup>205</sup>	49.68 <sup>141</sup>	30.727 <sup>223</sup>	11.92 <sup>186</sup>	29.32 <sup>53</sup>	44.95 <sup>259</sup>	10.787 <sup>251</sup>	54.33 <sup>108</sup>
15.6	27.896 <sup>176</sup>	51.09 <sup>175</sup>	30.950 <sup>188</sup>	13.78 <sup>225</sup>	29.85 <sup>41</sup>	47.54 <sup>298</sup>	11.038 <sup>223</sup>	55.41 <sup>104</sup>
25.6	28.072 <sup>144</sup>	52.84 <sup>203</sup>	31.138 <sup>150</sup>	16.03 <sup>255</sup>	30.26 <sup>28</sup>	50.52 <sup>327</sup>	11.261 <sup>193</sup>	56.45 <sup>99</sup>
Nov. 4.5	28.216 <sup>110</sup>	54.87 <sup>223</sup>	31.288 <sup>109</sup>	18.58 <sup>275</sup>	30.54 <sup>12</sup>	53.79 <sup>342</sup>	11.454 <sup>160</sup>	57.44 <sup>94</sup>
14.5	28.326 <sup>74</sup>	57.10 <sup>233</sup>	31.397 <sup>66</sup>	21.33 <sup>285</sup>	30.66 <sup>3</sup>	57.21 <sup>346</sup>	11.614 <sup>124</sup>	58.38 <sup>87</sup>
24.5	28.400 <sup>36</sup>	59.43 <sup>235</sup>	31.463 <sup>22</sup>	24.18 <sup>285</sup>	30.63 <sup>18</sup>	60.67 <sup>336</sup>	11.738 <sup>84</sup>	59.25 <sup>79</sup>
Dez. 4.5	28.436 <sup>2</sup>	61.78 <sup>228</sup>	31.485 <sup>23</sup>	27.03 <sup>273</sup>	30.45 <sup>32</sup>	64.03 <sup>315</sup>	11.822 <sup>42</sup>	60.04 <sup>70</sup>
14.4	28.434 <sup>40</sup>	64.06 <sup>213</sup>	31.462 <sup>67</sup>	29.76 <sup>254</sup>	30.13 <sup>46</sup>	67.18 <sup>283</sup>	11.864 <sup>1</sup>	60.74 <sup>60</sup>
24.4	28.394 <sup>77</sup>	66.19 <sup>192</sup>	31.395 <sup>109</sup>	32.30 <sup>224</sup>	29.67 <sup>58</sup>	70.01 <sup>241</sup>	11.863 <sup>46</sup>	61.34 <sup>47</sup>
34.4	28.317	68.11	31.286	34.54	29.09	72.42	11.817	61.81
Mittl. Ort sec $\delta$ , tg $\delta$	24.301 1.090	66.80 -0.434	27.607 1.243	30.83 -0.738	27.72 3.738	64.40 -3.602	5.943 1.175	49.72 +0.616

Mittlere Zeit Greenw.	145) $\eta$ Camelop.		147) $\epsilon$ Persei		148) $\xi$ Persei		149) $\gamma$ Eridani	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$3^h 50^m$	$+60^\circ 52'$	$3^h 52^m$	$+39^\circ 46'$	$3^h 53^m$	$+35^\circ 33'$	$3^h 54^m$	$-13^\circ 43'$
Jan. 0.4	22.12 <sub>17</sub>	42.23 <sub>167</sub>	31.460 <sub>78</sub>	52.94 <sub>75</sub>	48.712 <sub>70</sub>	47.78 <sub>56</sub>	19.566 <sub>73</sub>	73.83 <sub>153</sub>
10.4	21.95 <sub>24</sub>	43.90 <sub>130</sub>	31.382 <sub>124</sub>	53.69 <sub>53</sub>	48.642 <sub>113</sub>	48.34 <sub>38</sub>	19.493 <sub>106</sub>	75.36 <sub>131</sub>
20.3	21.71 <sub>30</sub>	45.20 <sub>89</sub>	31.258 <sub>163</sub>	54.22 <sub>29</sub>	48.529 <sub>151</sub>	48.72 <sub>17</sub>	19.387 <sub>136</sub>	76.67 <sub>105</sub>
30.3	21.41 <sub>34</sub>	46.09 <sub>43</sub>	31.095 <sub>195</sub>	54.51 <sub>2</sub>	48.378 <sub>181</sub>	48.89 <sub>6</sub>	19.251 <sub>160</sub>	77.72 <sub>78</sub>
Feb. 9.3	21.07 <sub>37</sub>	46.52 <sub>3</sub>	30.900 <sub>216</sub>	54.53 <sub>26</sub>	48.197 <sub>202</sub>	48.83 <sub>28</sub>	19.091 <sub>175</sub>	78.50 <sub>49</sub>
19.2	20.70 <sub>38</sub>	46.49 <sub>50</sub>	30.684 <sub>225</sub>	54.27 <sub>52</sub>	47.995 <sub>211</sub>	48.55 <sub>51</sub>	18.916 <sub>184</sub>	78.99 <sub>19</sub>
29.2	20.32 <sub>37</sub>	45.99 <sub>94</sub>	30.459 <sub>222</sub>	53.75 <sub>77</sub>	47.784 <sub>208</sub>	48.04 <sub>71</sub>	18.732 <sub>182</sub>	79.18 <sub>10</sub>
März 10.2	19.95 <sub>35</sub>	45.05 <sub>135</sub>	30.237 <sub>205</sub>	52.98 <sub>98</sub>	47.576 <sub>193</sub>	47.33 <sub>88</sub>	18.550 <sub>170</sub>	79.08 <sub>40</sub>
20.2	19.60 <sub>29</sub>	43.70 <sub>168</sub>	30.032 <sub>177</sub>	52.00 <sub>114</sub>	47.383 <sub>167</sub>	46.45 <sub>101</sub>	18.380 <sub>151</sub>	78.68 <sub>69</sub>
30.1	19.31 <sub>23</sub>	42.02 <sub>196</sub>	29.855 <sub>137</sub>	50.86 <sub>126</sub>	47.216 <sub>130</sub>	45.44 <sub>110</sub>	18.229 <sub>121</sub>	77.99 <sub>97</sub>
Apr. 9.1	19.08 <sub>16</sub>	40.06 <sub>214</sub>	29.718 <sub>90</sub>	49.60 <sub>132</sub>	47.086 <sub>84</sub>	44.34 <sub>112</sub>	18.108 <sub>86</sub>	77.02 <sub>124</sub>
19.1	18.92 <sub>8</sub>	37.92 <sub>225</sub>	29.628 <sub>35</sub>	48.28 <sub>132</sub>	47.002 <sub>34</sub>	43.22 <sub>110</sub>	18.022 <sub>46</sub>	75.78 <sub>149</sub>
29.1	18.84 <sub>1</sub>	35.67 <sub>226</sub>	29.593 <sub>23</sub>	46.96 <sub>125</sub>	46.968 <sub>22</sub>	42.12 <sub>103</sub>	17.976 <sub>1</sub>	74.29 <sub>171</sub>
Mai 9.0	18.85 <sub>11</sub>	33.41 <sub>219</sub>	29.616 <sub>81</sub>	45.71 <sub>113</sub>	46.990 <sub>77</sub>	41.09 <sub>89</sub>	17.975 <sub>45</sub>	72.58 <sub>191</sub>
19.0	18.96 <sub>19</sub>	31.22 <sub>206</sub>	29.697 <sub>139</sub>	44.58 <sub>98</sub>	47.067 <sub>131</sub>	40.20 <sub>74</sub>	18.020 <sub>90</sub>	70.67 <sub>207</sub>
29.0	19.15 <sub>27</sub>	29.16 <sub>184</sub>	29.836 <sub>192</sub>	43.60 <sub>77</sub>	47.198 <sub>183</sub>	39.46 <sub>55</sub>	18.110 <sub>134</sub>	68.60 <sub>217</sub>
Juni 7.9	19.42 <sub>34</sub>	27.32 <sub>159</sub>	30.028 <sub>241</sub>	42.83 <sub>56</sub>	47.381 <sub>230</sub>	38.91 <sub>33</sub>	18.244 <sub>173</sub>	66.43 <sub>223</sub>
17.9	19.76 <sub>41</sub>	25.73 <sub>129</sub>	30.269 <sub>283</sub>	42.27 <sub>32</sub>	47.611 <sub>268</sub>	38.58 <sub>12</sub>	18.417 <sub>208</sub>	64.20 <sub>223</sub>
27.9	20.17 <sub>47</sub>	24.44 <sub>95</sub>	30.552 <sub>317</sub>	41.95 <sub>7</sub>	47.879 <sub>301</sub>	38.46 <sub>11</sub>	18.625 <sub>238</sub>	61.97 <sub>216</sub>
Juli 7.9	20.64 <sub>50</sub>	23.49 <sub>59</sub>	30.869 <sub>343</sub>	41.88 <sub>16</sub>	48.180 <sub>327</sub>	38.57 <sub>32</sub>	18.863 <sub>260</sub>	59.81 <sub>204</sub>
17.8	21.14 <sub>54</sub>	22.90 <sub>23</sub>	31.212 <sub>361</sub>	42.04 <sub>40</sub>	48.507 <sub>343</sub>	38.89 <sub>52</sub>	19.123 <sub>277</sub>	57.77 <sub>185</sub>
27.8	21.68 <sub>55</sub>	22.67 <sub>13</sub>	31.573 <sub>372</sub>	42.44 <sub>61</sub>	48.850 <sub>354</sub>	39.41 <sub>69</sub>	19.400 <sub>288</sub>	55.92 <sub>160</sub>
Aug. 6.8	22.23 <sub>56</sub>	22.80 <sub>49</sub>	31.945 <sub>375</sub>	43.05 <sub>79</sub>	49.204 <sub>356</sub>	40.10 <sub>85</sub>	19.688 <sub>291</sub>	54.32 <sub>131</sub>
16.8	22.79 <sub>56</sub>	23.29 <sub>83</sub>	32.320 <sub>371</sub>	43.84 <sub>96</sub>	49.560 <sub>353</sub>	40.95 <sub>96</sub>	19.979 <sub>289</sub>	53.01 <sub>96</sub>
26.7	23.35 <sub>54</sub>	24.12 <sub>115</sub>	32.691 <sub>361</sub>	44.80 <sub>109</sub>	49.913 <sub>343</sub>	41.91 <sub>106</sub>	20.268 <sub>282</sub>	52.05 <sub>57</sub>
Sept. 5.7	23.89 <sub>53</sub>	25.27 <sub>144</sub>	33.052 <sub>347</sub>	45.89 <sub>121</sub>	50.256 <sub>330</sub>	42.97 <sub>114</sub>	20.550 <sub>269</sub>	51.48 <sub>18</sub>
15.7	24.42 <sub>50</sub>	26.71 <sub>170</sub>	33.399 <sub>328</sub>	47.10 <sub>128</sub>	50.586 <sub>312</sub>	44.11 <sub>118</sub>	20.819 <sub>253</sub>	51.30 <sub>23</sub>
25.6	24.92 <sub>46</sub>	28.41 <sub>194</sub>	33.727 <sub>306</sub>	48.38 <sub>135</sub>	50.898 <sub>291</sub>	45.29 <sub>120</sub>	21.072 <sub>233</sub>	51.53 <sub>61</sub>
Okt. 5.6	25.38 <sub>42</sub>	30.35 <sub>214</sub>	34.033 <sub>278</sub>	49.73 <sub>139</sub>	51.189 <sub>266</sub>	46.49 <sub>120</sub>	21.305 <sub>210</sub>	52.14 <sub>98</sub>
15.6	25.80 <sub>36</sub>	32.49 <sub>230</sub>	34.311 <sub>249</sub>	51.12 <sub>141</sub>	51.455 <sub>237</sub>	47.69 <sub>121</sub>	21.515 <sub>185</sub>	53.12 <sub>129</sub>
25.6	26.16 <sub>31</sub>	34.79 <sub>241</sub>	34.560 <sub>216</sub>	52.53 <sub>141</sub>	51.692 <sub>207</sub>	48.90 <sub>118</sub>	21.700 <sub>156</sub>	54.41 <sub>156</sub>
Nov. 4.5	26.47 <sub>25</sub>	37.20 <sub>247</sub>	34.776 <sub>179</sub>	53.94 <sub>139</sub>	51.899 <sub>172</sub>	50.08 <sub>114</sub>	21.856 <sub>125</sub>	55.97 <sub>175</sub>
14.5	26.72 <sub>19</sub>	39.67 <sub>249</sub>	34.955 <sub>137</sub>	55.33 <sub>135</sub>	52.071 <sub>134</sub>	51.22 <sub>109</sub>	21.981 <sub>93</sub>	57.72 <sub>187</sub>
24.5	26.91 <sub>10</sub>	42.16 <sub>243</sub>	35.092 <sub>94</sub>	56.68 <sub>128</sub>	52.205 <sub>92</sub>	52.31 <sub>103</sub>	22.074 <sub>58</sub>	59.59 <sub>191</sub>
Dez. 4.5	27.01 <sub>3</sub>	44.59 <sub>232</sub>	35.186 <sub>46</sub>	57.96 <sub>118</sub>	52.297 <sub>48</sub>	53.34 <sub>93</sub>	22.132 <sub>21</sub>	61.50 <sub>189</sub>
14.4	27.04 <sub>5</sub>	46.91 <sub>212</sub>	35.232 <sub>3</sub>	59.14 <sub>105</sub>	52.345 <sub>1</sub>	54.27 <sub>82</sub>	22.153 <sub>16</sub>	63.39 <sub>179</sub>
24.4	26.99 <sub>12</sub>	49.03 <sub>187</sub>	35.229 <sub>52</sub>	60.19 <sub>88</sub>	52.346 <sub>45</sub>	55.09 <sub>68</sub>	22.137 <sub>52</sub>	65.18 <sub>164</sub>
34.4	26.87	50.90	35.177	61.07	52.301	55.77	22.085	66.82
Mittl. Ort sec $\delta$ , tg $\delta$	18.17 2.055	33.35 +1.795	28.798 1.301	47.71 +0.833	46.181 1.229	43.48 +0.715	17.755 1.029	67.17 -0.244



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	150) λ Tauri		151) υ Tauri		152) ε Persei		154) ο <sup>1</sup> Eridani	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	3 <sup>h</sup> 56 <sup>m</sup>	+12° 15'	3 <sup>h</sup> 58 <sup>m</sup>	+5° 45'	4 <sup>h</sup> 2 <sup>m</sup>	+47° 29'	4 <sup>h</sup> 7 <sup>m</sup>	-7° 2'
Jan. 0.4	16.787	54.03	55.915	63.12	53.877	66.39	59.466	48.71
10.4	16.734	53.53	55.862	62.32	53.791	67.55	59.410	50.06
20.3	16.645	53.02	55.774	61.59	53.651	68.45	59.318	51.23
30.3	16.524	52.54	55.655	60.94	53.464	69.05	59.196	52.20
Feb. 9.3	16.378	52.07	55.510	60.37	53.239	69.32	59.047	52.97
19.3	16.214	51.62	55.348	59.90	52.989	69.26	58.880	53.50
29.2	16.041	51.21	55.177	59.53	52.726	68.84	58.702	53.81
März 10.2	15.868	50.83	55.006	59.26	52.465	68.10	58.524	53.88
20.2	15.707	50.52	54.845	59.12	52.221	67.07	58.354	53.70
30.1	15.567	50.29	54.704	59.12	52.008	65.79	58.203	53.27
Apr. 9.1	15.457	50.17	54.592	59.27	51.837	64.32	58.078	52.61
19.1	15.383	50.16	54.515	59.58	51.719	62.73	57.987	51.72
29.1	15.352	50.30	54.480	60.07	51.661	61.08	57.936	50.59
Mai 9.0	15.366	50.60	54.489	60.73	51.668	59.44	57.929	49.26
19.0	15.427	51.07	54.543	61.57	51.741	57.88	57.966	47.73
29.0	15.534	51.70	54.643	62.58	51.878	56.45	58.047	46.03
Juni 8.0	15.685	52.49	54.785	63.73	52.077	55.20	58.172	44.21
17.9	15.874	53.43	54.967	65.00	52.331	54.17	58.337	42.31
27.9	16.098	54.48	55.182	66.37	52.634	53.39	58.537	40.37
Juli 7.9	16.350	55.63	55.426	67.79	52.977	52.88	58.766	38.45
17.8	16.624	56.83	55.691	69.21	53.352	52.65	59.019	36.61
27.8	16.913	58.05	55.972	70.60	53.750	52.69	59.289	34.89
Aug. 6.8	17.210	59.24	56.262	71.91	54.162	52.99	59.571	33.37
16.8	17.510	60.36	56.555	73.09	54.581	53.54	59.858	32.09
26.7	17.807	61.38	56.845	74.10	54.998	54.32	60.144	31.09
Sept. 5.7	18.096	62.26	57.129	74.91	55.408	55.31	60.425	30.41
15.7	18.373	62.98	57.401	75.49	55.804	56.49	60.696	30.08
25.7	18.635	63.52	57.658	75.84	56.181	57.82	60.954	30.10
Okt. 5.6	18.878	63.88	57.897	75.94	56.534	59.29	61.194	30.46
15.6	19.101	64.05	58.116	75.82	56.859	60.88	61.413	31.15
25.6	19.300	64.06	58.311	75.48	57.151	62.55	61.610	32.13
Nov. 4.5	19.472	63.92	58.481	74.96	57.406	64.27	61.781	33.36
14.5	19.617	63.66	58.622	74.30	57.619	66.03	61.923	34.77
24.5	19.730	63.30	58.733	73.54	57.785	67.78	62.033	36.30
Dez. 4.5	19.810	62.87	58.811	72.71	57.899	69.49	62.110	37.90
14.4	19.853	62.40	58.853	71.85	57.959	71.12	62.151	39.49
24.4	19.858	61.91	58.857	71.00	57.961	72.61	62.154	41.02
34.4	19.826	61.41	58.825	70.19	57.906	73.92	62.119	42.44
Mittl. Ort sec δ, tg δ	14.728 1.023	54.91 +0.217	53.928 1.005	65.58 +0.101	50.841 1.480	60.65 +1.091	57.560 1.008	43.17 -0.124

Mittlere Zeit Greenw.	155) $\alpha$ Horologii		156) $\alpha$ Reticuli		160) $\nu^4$ Eridani		162) $\delta$ Tauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$4^h 11^m$	$-42^\circ 29'$	$4^h 13^m$	$-62^\circ 40'$	$4^h 14^m$	$-33^\circ 59'$	$4^h 18^m$	$+17^\circ 21'$
Jan. 0.4	22.812 137	39.89 237	25.68 30	39.68 252	53.788 103	45.48 223	21.340 37	20.36 27
10.4	22.675 181	42.26 197	25.38 36	42.20 205	53.685 142	47.71 188	21.303 76	20.09 28
20.4	22.494 217	44.23 152	25.02 41	44.25 153	53.543 177	49.59 148	21.227 112	19.81 30
30.3	22.277 246	45.75 104	24.61 46	45.78 98	53.366 206	51.07 106	21.115 143	19.51 33
Feb. 9.3	22.031 267	46.79 54	24.15 48	46.76 40	53.160 226	52.13 60	20.972 165	19.18 35
19.3	21.764 276	47.33 3	23.67 49	47.16 16	52.934 236	52.73 15	20.807 179	18.83 38
29.2	21.488 276	47.36 46	23.18 49	47.00 71	52.698 237	52.88 31	20.628 181	18.45 38
März 10.2	21.212 264	46.90 93	22.69 46	46.29 124	52.461 228	52.57 74	20.447 173	18.07 38
20.2	20.948 240	45.97 139	22.23 44	45.05 173	52.233 208	51.83 116	20.274 155	17.69 35
30.2	20.708 209	44.58 181	21.79 38	43.32 217	52.025 179	50.67 155	20.119 127	17.34 31
Apr. 9.1	20.499 168	42.77 218	21.41 32	41.15 256	51.846 141	49.12 190	19.992 92	17.03 23
19.1	20.331 121	40.59 251	21.09 25	38.59 290	51.705 99	47.22 223	19.900 50	16.80 14
29.1	20.210 68	38.08 278	20.84 18	35.69 317	51.606 51	44.99 250	19.850 4	16.66 1
Mai 9.1	20.142 13	35.30 299	20.66 10	32.52 336	51.555 0	42.49 271	19.846 43	16.65 12
19.0	20.129 43	32.31 313	20.56 1	29.16 347	51.555 50	39.78 286	19.889 90	16.77 27
29.0	20.172 99	29.18 320	20.55 8	25.69 351	51.605 101	36.92 295	19.979 135	17.04 42
Juni 8.0	20.271 152	25.98 318	20.63 16	22.18 345	51.706 148	33.97 297	20.114 176	17.46 57
17.9	20.423 200	22.80 309	20.79 24	18.73 331	51.854 191	31.00 291	20.290 213	18.03 70
27.9	20.623 242	19.71 290	21.03 31	15.42 307	52.045 229	28.09 276	20.503 244	18.73 81
Juli 7.9	20.865 279	16.81 265	21.34 37	12.35 275	52.274 261	25.33 253	20.747 269	19.54 89
17.9	21.144 309	14.16 230	21.71 42	9.60 234	52.535 286	22.80 224	21.016 286	20.43 94
27.8	21.453 329	11.86 188	22.13 47	7.26 186	52.821 304	20.56 187	21.302 299	21.37 96
Aug. 6.8	21.782 342	9.98 140	22.60 49	5.40 132	53.125 315	18.69 144	21.601 304	22.33 94
16.8	22.124 348	8.58 87	23.09 51	4.08 73	53.440 318	17.25 95	21.905 305	23.27 88
26.7	22.472 344	7.71 31	23.60 51	3.35 11	53.758 316	16.30 44	22.210 300	24.15 80
Sept. 5.7	22.816 333	7.40 28	24.11 50	3.24 53	54.074 306	15.86 12	22.510 292	24.95 69
15.7	23.149 316	7.68 86	24.61 47	3.77 116	54.380 291	15.98 65	22.802 279	25.64 57
25.7	23.465 291	8.54 141	25.08 43	4.93 175	54.671 270	16.63 117	23.081 264	26.21 43
Okt. 5.6	23.756 261	9.95 192	25.51 38	6.68 229	54.941 244	17.80 166	23.345 246	26.64 29
15.6	24.017 225	11.87 235	25.89 31	8.97 274	55.185 215	19.46 208	23.591 224	26.93 17
25.6	24.242 184	14.22 271	26.20 24	11.71 311	55.400 180	21.54 241	23.815 199	27.10 5
Nov. 4.6	24.426 140	16.93 296	26.44 16	14.82 335	55.580 142	23.95 267	24.014 172	27.15 4
14.5	24.566 92	19.89 310	26.60 8	18.17 347	55.722 102	26.62 282	24.186 140	27.11 11
24.5	24.658 42	22.99 312	26.68 0	21.64 347	55.824 58	29.44 286	24.326 106	27.00 16
Dez. 4.5	24.700 9	26.11 304	26.68 9	25.11 334	55.882 13	32.30 281	24.432 68	26.84 20
14.4	24.691 60	29.15 286	26.59 18	28.45 311	55.895 32	35.11 265	24.500 28	26.64 23
24.4	24.631 109	32.01 257	26.41 26	31.56 276	55.863 76	37.76 241	24.528 14	26.41 25
34.4	24.522	34.58	26.15	34.32	55.787	40.17	24.514	26.16
Mittl. Ort sec $\delta$ , tg $\delta$	20.921 1.356	28.02 -0.916	23.39 2.178	25.70 -1.935	51.921 1.206	34.89 -0.674	19.128 1.048	21.33 +0.313

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	164) ε Tauri		168) α Tauri		171) α Doradus		169) v Eridani	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	4 <sup>h</sup> 23 <sup>m</sup>	+19° 0'	4 <sup>h</sup> 31 <sup>m</sup>	+16° 20'	4 <sup>h</sup> 32 <sup>m</sup>	-55° 12'	4 <sup>h</sup> 32 <sup>m</sup>	-3° 30'
Jan. 0.4	58.836	13.79	21.917	56.46	18.260	48.01	21.248	59.90
10.4	58.804	13.61	21.891	56.14	18.067	50.71	21.214	61.18
20.4	58.731	13.40	21.823	55.82	17.816	52.99	21.141	62.31
30.3	58.621	13.16	21.718	55.50	17.516	54.80	21.032	63.28
Feb. 9.3	58.479	12.88	21.581	55.17	17.176	56.08	20.894	64.06
19.3	58.313	12.57	21.420	54.84	16.808	56.82	20.732	64.65
29.3	58.133	12.22	21.242	54.50	16.425	57.01	20.556	65.04
März 10.2	57.950	11.84	21.060	54.16	16.039	56.65	20.375	65.21
20.2	57.773	11.45	20.883	53.83	15.665	55.77	20.199	65.18
30.2	57.614	11.07	20.722	53.53	15.314	54.39	20.038	64.93
Apr. 9.1	57.481	10.70	20.587	53.28	14.999	52.54	19.901	64.47
19.1	57.385	10.40	20.486	53.10	14.731	50.28	19.795	63.80
29.1	57.330	10.18	20.425	53.02	14.517	47.66	19.727	62.91
Mai 9.1	57.321	10.08	20.408	53.05	14.366	44.73	19.700	61.83
19.0	57.359	10.10	20.438	53.20	14.281	41.57	19.718	60.56
29.0	57.445	10.26	20.515	53.50	14.266	38.25	19.780	59.13
Juni 8.0	57.576	10.57	20.637	53.94	14.320	34.84	19.885	57.56
18.0	57.749	11.01	20.801	54.51	14.443	31.43	20.030	55.89
27.9	57.961	11.60	21.001	55.20	14.630	28.12	20.212	54.17
Juli 7.9	58.203	12.30	21.234	55.99	14.876	24.99	20.425	52.44
17.9	58.470	13.09	21.492	56.85	15.175	22.13	20.664	50.76
27.8	58.757	13.94	21.771	57.75	15.518	19.63	20.923	49.17
Aug. 6.8	59.056	14.82	22.063	58.66	15.897	17.56	21.196	47.74
16.8	59.362	15.69	22.362	59.54	16.301	16.01	21.477	46.51
26.8	59.669	16.53	22.664	60.35	16.722	15.01	21.762	45.52
Sept. 5.7	59.973	17.30	22.964	61.07	17.146	14.62	22.045	44.83
15.7	60.269	17.98	23.257	61.68	17.564	14.86	22.322	44.44
25.7	60.554	18.55	23.540	62.14	17.966	15.72	22.589	44.38
Okt. 5.7	60.824	19.00	23.810	62.47	18.341	17.19	22.842	44.64
15.6	61.076	19.33	24.062	62.65	18.680	19.22	23.079	45.21
25.6	61.307	19.55	24.295	62.70	18.973	21.74	23.296	46.06
Nov. 4.6	61.513	19.67	24.505	62.64	19.214	24.66	23.489	47.15
14.5	61.693	19.70	24.688	62.49	19.396	27.87	23.656	48.42
24.5	61.841	19.67	24.840	62.26	19.514	31.27	23.792	49.82
Dez. 4.5	61.953	19.59	24.958	61.99	19.564	34.72	23.895	51.29
14.5	62.028	19.48	25.039	61.70	19.545	38.10	23.962	52.77
24.4	62.062	19.34	25.078	61.39	19.457	41.30	23.990	54.20
34.4	62.053	19.18	25.076	61.08	19.303	44.21	23.978	55.54
Mittl. Ort sec δ, tg δ	56.580 1.058	14.76 +0.344	19.682 1.042	58.33 +0.293	16.056 1.753	35.20 -1.439	19.236 1.002	54.38 -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.
1920	4 <sup>h</sup> 34 <sup>m</sup>	-14° 27'	4 <sup>h</sup> 37 <sup>m</sup>	+22° 48'	4 <sup>h</sup> 38 <sup>m</sup>	+75° 47'	4 <sup>h</sup> 41 <sup>m</sup>	+56° 36'
Jan. 0.4	32.887	42.08	28.845	15.37	10.12	58.73	23.728	63.46
10.4	32.842	43.83	28.823	15.39	9.85	61.27	23.662	65.22
20.4	32.758	45.37	28.758	15.37	9.43	63.48	23.523	66.74
30.3	32.638	46.65	28.653	15.30	8.87	65.28	23.318	67.96
Feb. 9.3	32.487	47.65	28.512	15.17	8.19	66.60	23.057	68.83
19.3	32.314	48.35	28.345	14.97	7.44	67.40	22.753	69.30
29.3	32.127	48.75	28.161	14.69	6.63	67.63	22.423	69.37
März 10.2	31.934	48.84	27.970	14.34	5.81	67.30	22.083	69.01
20.2	31.746	48.62	27.784	13.94	5.02	66.42	21.753	68.26
30.2	31.573	48.10	27.615	13.50	4.30	65.04	21.450	67.15
Apr. 9.1	31.423	47.29	27.471	13.04	3.67	63.22	21.189	65.72
19.1	31.304	46.19	27.362	12.60	3.16	61.02	20.985	64.04
29.1	31.224	44.83	27.294	12.21	2.80	58.55	20.847	62.18
Mai 9.1	31.185	43.23	27.272	11.89	2.59	55.89	20.783	60.21
19.0	31.190	41.42	27.298	11.68	2.55	53.14	20.797	58.21
29.0	31.241	39.44	27.373	11.59	2.68	50.38	20.889	56.25
Juni 8.0	31.336	37.33	27.495	11.63	2.97	47.71	21.056	54.38
18.0	31.472	35.14	27.660	11.81	3.42	45.19	21.295	52.67
27.9	31.646	32.92	27.865	12.12	4.01	42.91	21.598	51.16
Juli 7.9	31.853	30.75	28.102	12.55	4.72	40.91	21.957	49.90
17.9	32.087	28.68	28.367	13.10	5.54	39.25	22.364	48.90
27.8	32.344	26.79	28.654	13.73	6.46	37.96	22.808	48.18
Aug. 6.8	32.616	25.12	28.955	14.41	7.44	37.06	23.280	47.76
16.8	32.898	23.74	29.265	15.12	8.47	36.57	23.771	47.63
26.8	33.185	22.70	29.579	15.82	9.53	36.50	24.272	47.80
Sept. 5.7	33.470	22.04	29.891	16.50	10.59	36.85	24.775	48.26
15.7	33.751	21.79	30.198	17.12	11.65	37.62	25.272	48.98
25.7	34.021	21.95	30.495	17.68	12.68	38.78	25.756	49.97
Okt. 5.7	34.277	22.52	30.779	18.15	13.67	40.31	26.220	51.18
15.6	34.515	23.49	31.047	18.55	14.59	42.20	26.657	52.62
25.6	34.732	24.81	31.295	18.87	15.43	44.41	27.061	54.26
Nov. 4.6	34.925	26.42	31.519	19.12	16.16	46.89	27.424	56.06
14.5	35.088	28.26	31.717	19.31	16.77	49.59	27.739	58.00
24.5	35.221	30.26	31.883	19.46	17.26	52.46	27.998	60.04
Dez. 4.5	35.318	32.32	32.013	19.58	17.59	55.42	28.194	62.14
14.5	35.376	34.39	32.104	19.68	17.75	58.39	28.320	64.23
24.4	35.395	36.39	32.152	19.76	17.75	61.28	28.373	66.25
34.4	35.373	38.24	32.156	19.81	17.58	63.99	28.350	68.15
Mittl. Ort sec $\delta$ , tg $\delta$	30.930 1.033	34.63 -0.258	26.479 1.085	16.47 +0.420	2.44 4.076	53.24 +3.951	19.933 1.817	60.01 +1.517

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	178) $\gamma$ Camelop.		180) $\pi^5$ Orionis		181) $\epsilon$ Aurigae		183) $\epsilon$ Aurigae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$4^h 46^m$	$+66^\circ 12'$	$4^h 50^m$	$+2^\circ 18'$	$4^h 51^m$	$+33^\circ 2'$	$4^h 56^m$	$+43^\circ 42'$
Jan. 0.4	10.11	35.40	7.083	33.16	49.522	25.96	16.518	23.05
10.4	10.00	37.61	7.067	32.11	49.510	26.54	16.502	24.23
20.4	9.79	39.55	7.010	31.16	49.448	27.04	16.427	25.25
30.3	9.49	41.14	6.915	30.34	49.340	27.42	16.298	26.09
Feb. 9.3	9.12	42.32	6.787	29.66	49.192	27.66	16.122	26.70
19.3	8.69	43.05	6.632	29.12	49.011	27.74	15.909	27.05
29.3	8.22	43.28	6.460	28.73	48.808	27.64	15.670	27.11
März 10.2	7.74	43.01	6.280	28.49	48.596	27.35	15.419	26.89
20.2	7.27	42.27	6.102	28.40	48.386	26.90	15.171	26.38
30.2	6.84	41.08	5.936	28.47	48.192	26.31	14.940	25.62
Apr. 9.2	6.46	39.50	5.791	28.71	48.024	25.59	14.738	24.64
19.1	6.16	37.60	5.676	29.11	47.892	24.79	14.578	23.49
29.1	5.95	35.45	5.598	29.69	47.804	23.96	14.467	22.21
Mai 9.1	5.83	33.14	5.560	30.44	47.765	23.12	14.411	20.87
19.0	5.81	30.74	5.566	31.35	47.777	22.33	14.415	19.52
29.0	5.90	28.34	5.616	32.41	47.843	21.62	14.480	18.20
Juni 8.0	6.09	26.03	5.710	33.61	47.960	21.01	14.603	16.98
18.0	6.38	23.86	5.844	34.92	48.125	20.54	14.782	15.88
27.9	6.76	21.89	6.014	36.30	48.333	20.21	15.011	14.94
Juli 7.9	7.21	20.18	6.218	37.71	48.580	20.03	15.284	14.18
17.9	7.73	18.76	6.448	39.12	48.858	20.00	15.595	13.61
27.9	8.31	17.66	6.700	40.48	49.161	20.11	15.937	13.24
Aug. 6.8	8.92	16.90	6.968	41.72	49.483	20.34	16.301	13.07
16.8	9.57	16.50	7.247	42.82	49.817	20.69	16.680	13.09
26.8	10.23	16.46	7.531	43.72	50.158	21.13	17.069	13.29
Sept. 5.7	10.90	16.77	7.816	44.40	50.500	21.63	17.461	13.66
15.7	11.57	17.43	8.097	44.81	50.838	22.19	17.850	14.19
25.7	12.21	18.42	8.371	44.95	51.169	22.78	18.232	14.86
Okt. 5.7	12.84	19.73	8.635	44.83	51.489	23.40	18.601	15.66
15.6	13.43	21.34	8.885	44.44	51.793	24.04	18.953	16.58
25.6	13.97	23.21	9.117	43.81	52.077	24.69	19.283	17.61
Nov. 4.6	14.46	25.32	9.328	42.97	52.337	25.36	19.586	18.73
14.6	14.87	27.63	9.515	41.96	52.569	26.05	19.854	19.95
24.5	15.21	30.09	9.673	40.85	52.766	26.75	20.084	21.23
Dec. 4.5	15.47	32.63	9.797	39.66	52.925	27.45	20.267	22.55
14.5	15.62	35.18	9.885	38.47	53.040	28.16	20.399	23.89
24.4	15.68	37.68	9.934	37.30	53.106	28.84	20.474	25.21
34.4	15.63	40.04	9.942	36.20	53.123	29.48	20.491	26.46
Mittl. Ort sec $\delta$ , tg $\delta$	5.13 2.479	31.49 +2.268	4.972 1.001	38.26 +0.040	46.878 1.193	26.46 +0.650	13.483 1.383	22.51 +0.956

Mittlere Zeit Greenw.	182) $\iota$ Camelop.		184) $\epsilon$ Tauri		185) $\eta$ Aurigae		186) $\epsilon$ Leporis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$4^h 56^m$	$+6^\circ 19'$	$4^h 58^m$	$+21^\circ 28'$	$5^h 0^m$	$+41^\circ 7'$	$5^h 2^m$	$-22^\circ 28'$
Jan. 0.4	21.89 6	39.76 200	21.129 2	34.10 5	57.042 8	39.27 104	6.475 35	48.30 221
10.4	21.83 14	41.76 177	21.127 48	34.05 5	57.034 65	40.31 92	6.440 78	50.51 195
20.4	21.69 22	43.53 148	21.079 91	34.00 7	56.969 117	41.23 76	6.362 118	52.46 166
30.3	21.47 28	45.01 112	20.988 129	33.93 11	56.852 164	41.99 56	6.244 154	54.12 131
Feb. 9.3	21.19 33	46.13 71	20.859 159	33.82 15	56.688 201	42.55 32	6.090 181	55.43 96
19.3	20.86 37	46.84 29	20.700 179	33.67 20	56.487 227	42.87 7	5.909 201	56.39 59
29.3	20.49 38	47.13 17	20.521 190	33.47 25	56.260 239	42.94 20	5.708 210	56.98 21
März 10.2	20.11 38	46.96 60	20.331 190	33.22 30	56.021 237	42.74 44	5.498 210	57.19 16
20.2	19.73 38	46.36 100	20.141 177	32.92 30	55.784 223	42.30 69	5.288 198	57.03 53
30.2	19.38 31	45.36 136	19.964 154	32.58 34	55.561 195	41.61 88	5.090 179	56.50 89
Apr. 9.2	19.07 26	44.00 167	19.810 122	32.24 34	55.366 157	40.73 103	4.911 150	55.61 122
19.1	18.81 18	42.33 190	19.688 85	31.90 30	55.209 110	39.70 115	4.761 114	54.39 153
29.1	18.63 10	40.43 205	19.603 40	31.60 24	55.099 57	38.55 121	4.647 74	52.86 180
Mai 9.1	18.53 2	38.38 213	19.563 6	31.36 15	55.042 0	37.34 122	4.573 29	51.06 205
19.0	18.51 7	36.25 214	19.569 54	31.21 5	55.042 58	36.12 118	4.544 16	49.01 225
29.0	18.58 15	34.11 208	19.623 100	31.16 6	55.100 115	34.94 109	4.560 61	46.76 240
Juni 8.0	18.73 23	32.03 196	19.723 144	31.22 18	55.215 168	33.85 97	4.621 105	44.36 248
18.0	18.96 30	30.07 177	19.867 184	31.40 29	55.383 217	32.88 83	4.726 146	41.88 251
27.9	19.26 37	28.30 156	20.051 218	31.69 40	55.600 260	32.05 66	4.872 182	39.37 246
Juli 7.9	19.63 43	26.74 129	20.269 248	32.09 48	55.860 296	31.39 49	5.054 215	36.91 234
17.9	20.06 47	25.45 102	20.517 271	32.57 55	56.156 326	30.90 31	5.269 241	34.57 215
27.9	20.53 50	24.43 72	20.788 289	33.12 59	56.482 349	30.59 13	5.510 263	32.42 189
Aug. 6.8	21.03 53	23.71 40	21.077 301	33.71 59	56.831 364	30.46 4	5.773 278	30.53 156
16.8	21.56 55	23.31 10	21.378 307	34.30 58	57.195 373	30.50 19	6.051 287	28.97 118
26.8	22.11 56	23.21 22	21.685 309	34.88 54	57.568 377	30.69 34	6.338 292	27.79 74
Sept. 5.7	22.67 55	23.43 51	21.994 308	35.42 47	57.945 376	31.03 47	6.630 292	27.05 28
15.7	23.22 54	23.94 81	22.302 300	35.89 39	58.321 369	31.50 59	6.922 286	26.77 20
25.7	23.76 53	24.75 108	22.602 291	36.28 30	58.690 358	32.09 70	7.208 276	26.97 69
Okt. 5.7	24.29 50	25.83 135	22.893 278	36.58 22	59.048 342	32.79 79	7.484 261	27.66 114
15.6	24.79 46	27.18 159	23.171 261	36.80 13	59.390 322	33.58 89	7.745 241	28.80 155
25.6	25.25 42	28.77 180	23.432 241	36.93 7	59.712 296	34.47 97	7.986 218	30.35 192
Nov. 4.6	25.67 37	30.57 198	23.673 215	37.00 1	60.008 265	35.44 105	8.204 189	32.27 221
14.6	26.04 31	32.55 213	23.888 186	37.01 2	60.273 227	36.49 111	8.393 157	34.48 240
24.5	26.35 24	34.68 221	24.074 151	36.99 4	60.500 184	37.60 115	8.550 119	36.88 252
Dez. 4.5	26.59 16	36.89 226	24.225 112	36.95 4	60.684 135	38.75 118	8.669 79	39.40 253
14.5	26.75 8	39.15 222	24.337 68	36.91 3	60.819 81	39.93 116	8.748 36	41.93 247
24.4	26.83 1	41.37 212	24.405 24	36.88 3	60.900 24	41.09 111	8.784 8	44.40 232
34.4	26.82	43.49	24.429	36.85	60.924	42.20	8.776	46.72
Mittl. Ort	17.68	37.43	18.740	36.70	54.106	39.44	4.445	39.52
sec $\delta$ , tg $\delta$	2.020	+1.755	1.075	+0.393	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.
1920	5 <sup>h</sup> 3 <sup>m</sup>	-5° 11'	5 <sup>h</sup> 7 <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	57.056 11	26.64 147	59.929 3	26.66 90	30.50 23	35.36 280	43.625 8	42.32 164
10.4	57.045 53	28.11 131	59.932 53	27.56 82	30.27 45	38.16 255	43.617 51	43.96 147
20.4	56.992 92	29.42 112	59.879 106	28.38 68	29.82 64	40.71 220	43.566 91	45.43 126
30.4	56.900 126	30.54 92	59.773 151	29.06 50	29.18 82	42.91 176	43.475 126	46.69 103
Feb. 9.3	56.774 155	31.46 70	59.622 188	29.56 31	28.36 95	44.67 125	43.349 156	47.72 78
19.3	56.619 175	32.16 48	59.434 215	29.87 8	27.41 103	45.92 70	43.193 176	48.50 52
29.3	56.444 184	32.64 25	59.219 229	29.95 14	26.38 108	46.62 12	43.017 187	49.02 28
März 10.2	56.260 185	32.89 2	58.990 229	29.81 37	25.30 108	46.74 46	42.830 188	49.30 1
20.2	56.075 175	32.91 20	58.761 216	29.44 58	24.22 102	46.28 101	42.642 179	49.31 24
30.2	55.900 155	32.71 42	58.545 191	28.86 77	23.20 92	45.27 151	42.463 162	49.07 49
Apr. 9.2	55.745 128	32.29 65	58.354 156	28.09 90	22.28 79	43.76 194	42.301 134	48.58 73
19.1	55.617 93	31.64 87	58.198 111	27.19 101	21.49 62	41.82 231	42.167 101	47.85 97
29.1	55.524 55	30.77 107	58.087 61	26.18 106	20.87 43	39.51 258	42.066 62	46.88 119
Mai 9.1	55.469 12	29.70 126	58.026 6	25.12 107	20.44 22	36.93 277	42.004 20	45.69 139
19.1	55.457 32	28.44 143	58.020 49	24.05 102	20.22 1	34.16 285	41.984 24	44.30 156
29.0	55.489 75	27.01 156	58.069 104	23.03 96	20.21 20	31.31 285	42.008 66	42.74 171
Juni 8.0	55.564 116	25.45 166	58.173 155	22.07 84	20.41 41	28.46 276	42.074 107	41.03 181
18.0	55.680 153	23.79 173	58.328 203	21.23 71	20.82 60	25.70 261	42.181 145	39.22 186
27.9	55.833 187	22.06 174	58.531 244	20.52 57	21.42 78	23.09 238	42.326 180	37.36 187
Juli 7.9	56.020 216	20.32 169	58.775 281	19.95 41	22.20 93	20.71 210	42.506 210	35.49 181
17.9	56.236 239	18.63 160	59.056 309	19.54 25	23.13 108	18.61 177	42.716 234	33.68 171
27.9	56.475 257	17.03 143	59.365 332	19.29 11	24.21 118	16.84 140	42.950 253	31.97 153
Aug. 6.8	56.732 271	15.60 124	59.697 348	19.18 5	25.39 128	15.44 102	43.203 267	30.44 130
16.8	57.003 278	14.36 98	60.045 358	19.23 17	26.67 133	14.42 59	43.470 277	29.14 103
26.8	57.281 281	13.38 69	60.403 363	19.40 29	28.00 138	13.83 17	43.747 281	28.11 71
Sept. 5.8	57.562 281	12.69 36	60.766 363	19.69 39	29.38 138	13.66 26	44.028 281	27.40 36
15.7	57.843 275	12.33 2	61.129 357	20.08 49	30.76 137	13.92 68	44.309 277	27.04 2
25.7	58.118 267	12.31 32	61.486 348	20.57 57	32.13 134	14.60 110	44.586 269	27.06 38
Okt. 5.7	58.385 254	12.63 65	61.834 334	21.14 65	33.47 127	15.70 150	44.855 258	27.44 74
15.6	58.639 238	13.28 96	62.168 316	21.79 72	34.74 118	17.20 188	45.113 242	28.18 107
25.6	58.877 218	14.24 122	62.484 292	22.51 79	35.92 106	19.08 222	45.355 223	29.25 136
Nov. 4.6	59.095 194	15.46 142	62.776 263	23.30 85	36.98 93	21.30 251	45.578 198	30.61 158
14.6	59.289 165	16.88 157	63.039 228	24.15 92	37.91 75	23.81 277	45.776 170	32.19 174
24.5	59.454 133	18.45 165	63.267 187	25.07 95	38.66 56	26.58 293	45.946 137	33.93 183
Dez. 4.5	59.587 95	20.10 167	63.454 140	26.02 99	39.22 35	29.51 303	46.083 100	35.76 186
14.5	59.682 56	21.77 163	63.594 88	27.01 99	39.57 13	32.54 304	46.183 59	37.62 181
24.5	59.738 13	23.40 153	63.682 34	28.00 96	39.70 9	35.58 294	46.242 17	39.43 172
34.4	59.751	24.93	63.716	28.96	39.61	38.52	46.259	41.15
Mittl. Ort sec $\delta$ , tg $\delta$	54.968 1.004	20.05 -0.091	57.083 1.276	27.74 +0.792	20.51 5.309	33.11 +5.214	41.538 1.011	35.20 -0.146

Mittlere Zeit Greenw.	193) $\alpha$ Aurigae		196) $\theta$ Doradus		201) $\gamma$ Orionis		202) $\beta$ Tauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	5 <sup>h</sup> 10 <sup>m</sup>	+45° 54'	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	49.748	64.62	52.00	42.95	52.581	35.80	16.586	24.90
10.4	49.748	65.93	51.73	46.08	52.594	34.88	16.606	25.25
20.4	49.685	67.11	51.37	48.83	52.562	34.06	16.574	25.58
30.4	49.563	68.11	50.93	51.15	52.488	33.35	16.495	25.87
Feb. 9.3	49.389	68.89	50.43	52.97	52.376	32.76	16.372	26.09
19.3	49.174	69.40	49.87	54.25	52.233	32.28	16.213	26.21
29.3	48.929	69.61	49.27	54.98	52.066	31.92	16.027	26.22
März 10.2	48.668	69.52	48.66	55.16	51.887	31.67	15.826	26.10
20.2	48.406	69.13	48.05	54.78	51.704	31.54	15.622	25.87
30.2	48.158	68.45	47.46	53.87	51.529	31.52	15.427	25.52
Apr. 9.2	47.938	67.52	46.91	52.46	51.371	31.62	15.251	25.08
19.1	47.757	66.38	46.41	50.59	51.239	31.86	15.106	24.56
29.1	47.625	65.08	45.98	48.29	51.140	32.22	14.998	24.01
Mai 9.1	47.549	63.68	45.63	45.63	51.080	32.72	14.935	23.44
19.1	47.533	62.23	45.36	42.66	51.062	33.36	14.919	22.91
29.0	47.580	60.78	45.19	39.46	51.087	34.14	14.953	22.42
Juni 8.0	47.687	59.40	45.11	36.11	51.155	35.03	15.035	22.01
18.0	47.852	58.11	45.14	32.69	51.264	36.02	15.164	21.70
27.9	48.071	56.96	45.26	29.29	51.412	37.09	15.335	21.48
Juli 7.9	48.337	55.97	45.47	26.00	51.594	38.21	15.545	21.37
17.9	48.643	55.17	45.77	22.92	51.805	39.33	15.788	21.36
27.9	48.984	54.56	46.16	20.13	52.040	40.43	16.058	21.45
Aug. 6.8	49.350	54.15	46.61	17.74	52.295	41.46	16.350	21.60
16.8	49.736	53.93	47.12	15.81	52.564	42.36	16.657	21.82
26.8	50.134	53.91	47.68	14.42	52.844	43.12	16.976	22.08
Sept. 5.8	50.539	54.07	48.26	13.63	53.128	43.68	17.300	22.36
15.7	50.945	54.41	48.86	13.47	53.414	44.03	17.626	22.65
25.7	51.345	54.92	49.45	13.97	53.697	44.15	17.949	22.93
Okt. 5.7	51.735	55.58	50.01	15.10	53.975	44.03	18.266	23.19
15.6	52.111	56.39	50.54	16.85	54.243	43.67	18.573	23.45
25.6	52.466	57.34	51.01	19.16	54.497	43.11	18.865	23.69
Nov. 4.6	52.794	58.41	51.41	21.95	54.735	42.36	19.139	23.93
14.6	53.089	59.61	51.73	25.12	54.950	41.47	19.389	24.19
24.5	53.344	60.91	51.95	28.56	55.140	40.49	19.608	24.46
Dez. 4.5	53.552	62.28	52.07	32.15	55.297	39.44	19.792	24.76
14.5	53.708	63.70	52.09	35.76	55.418	38.39	19.936	25.09
24.5	53.805	65.12	51.99	39.27	55.499	37.37	20.033	25.45
34.4	53.840	66.50	51.79	42.56	55.537	36.42	20.081	25.82
Mittl. Ort	46.582	65.11	48.89	31.11	50.365	41.48	14.008	28.10
sec $\delta$ , tg $\delta$	1.437	+1.033	2.589	-2.388	1.006	+0.110	1.138	+0.544



# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	203) 17 Camelop.		206) δ Orionis		205) Gr. 966		207) α Leporis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	5 <sup>h</sup> 22 <sup>m</sup>	+62° 59'	5 <sup>h</sup> 27 <sup>m</sup>	-0° 21'	5 <sup>h</sup> 29 <sup>m</sup>	+74° 59'	5 <sup>h</sup> 29 <sup>m</sup>	-17° 52'
1920								
Jan. 0.4	41.13	67.99	57.286	33.10	8.57	36.45	14.176	51.63
10.4	41.11	70.19	57.301	34.40	8.50	39.17	14.173	53.79
20.4	41.00	72.22	57.270	35.56	8.26	41.70	14.125	55.73
30.4	40.80	74.00	57.198	36.56	7.88	43.94	14.033	57.41
Feb. 9.3	40.52	75.44	57.088	37.40	7.35	45.79	13.903	58.79
19.3	40.17	76.50	56.945	38.05	6.71	47.19	13.742	59.86
29.3	39.78	77.13	56.779	38.52	5.99	48.08	13.556	60.59
März 10.3	39.36	77.30	56.599	38.81	5.23	48.43	13.357	60.98
20.2	38.94	77.02	56.414	38.92	4.45	48.23	13.153	61.03
30.2	38.53	76.29	56.236	38.85	3.70	47.50	12.956	60.74
Apr. 9.2	38.16	75.15	56.074	38.59	3.01	46.27	12.774	60.13
19.1	37.85	73.65	55.936	38.16	2.41	44.59	12.617	59.20
29.1	37.61	71.86	55.830	37.54	1.92	42.53	12.492	57.98
Mai 9.1	37.44	69.84	55.762	36.75	1.57	40.18	12.404	56.48
19.1	37.37	67.68	55.734	35.80	1.36	37.62	12.357	54.75
29.0	37.38	65.44	55.748	34.69	1.31	34.94	12.354	52.80
Juni 8.0	37.48	63.19	55.805	33.45	1.41	32.21	12.394	50.70
18.0	37.68	61.02	55.903	32.11	1.66	29.52	12.477	48.49
28.0	37.95	58.97	56.039	30.70	2.06	26.94	12.599	46.22
Juli 7.9	38.30	57.09	56.209	29.25	2.59	24.54	12.758	43.96
17.9	38.72	55.44	56.410	27.83	3.24	22.38	12.950	41.78
27.9	39.19	54.03	56.635	26.47	4.00	20.50	13.170	39.75
Aug. 6.8	39.71	52.91	56.881	25.22	4.84	18.94	13.413	37.92
16.8	40.26	52.09	57.142	24.14	5.75	17.73	13.674	36.38
26.8	40.84	51.57	57.415	23.26	6.72	16.90	13.949	35.18
Sept. 5.8	41.44	51.38	57.694	22.64	7.73	16.46	14.231	34.36
15.7	42.04	51.50	57.976	22.29	8.75	16.42	14.517	33.97
25.7	42.64	51.94	58.256	22.23	9.77	16.78	14.803	34.03
Okt. 5.7	43.23	52.69	58.531	22.48	10.78	17.54	15.083	34.54
15.7	43.79	53.73	58.798	23.03	11.75	18.69	15.353	35.49
25.6	44.33	55.07	59.052	23.84	12.66	20.21	15.609	36.84
Nov. 4.6	44.83	56.67	59.290	24.89	13.50	22.08	15.846	38.56
14.6	45.27	58.51	59.506	26.12	14.25	24.26	16.058	40.56
24.5	45.65	60.55	59.696	27.49	14.89	26.71	16.242	42.78
Dez. 4.5	45.96	62.75	59.855	28.94	15.39	29.38	16.392	45.13
14.5	46.18	65.06	59.978	30.40	15.75	32.18	16.503	47.53
24.5	46.32	67.39	60.061	31.83	15.94	35.03	16.571	49.89
34.4	46.36	69.68	60.100	33.18	15.97	37.85	16.595	52.13
Mittl. Ort sec δ, tg δ	36.55 2.203	68.14 +1.963	55.117 1.000	26.47 -0.006	1.06 3.862	36.59 +3.730	12.073 1.051	43.32 -0.323

Mittlere Zeit Greenw.	209) $\iota$ Orionis		210) $\epsilon$ Orionis		211) $\zeta$ Tauri		212) $\beta$ Doradus	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$5^h 31^m$	$-5^\circ 57'$	$5^h 32^m$	$-1^\circ 15'$	$5^h 32^m$	$+21^\circ 5'$	$5^h 32^m$	$-62^\circ 32'$
Jan. 0.5	33.300 <sup>13</sup>	48.66 <sup>160</sup>	II.370 <sup>18</sup>	14.14 <sup>136</sup>	54.203 <sup>30</sup>	36.96 <sup>9</sup>	58.63 <sup>16</sup>	41.90 <sup>329</sup>
10.4	33.313 <sup>32</sup>	50.26 <sup>144</sup>	II.388 <sup>28</sup>	15.50 <sup>122</sup>	54.233 <sup>19</sup>	36.87 <sup>5</sup>	58.47 <sup>25</sup>	45.19 <sup>296</sup>
20.4	33.281 <sup>74</sup>	51.70 <sup>124</sup>	II.360 <sup>70</sup>	16.72 <sup>105</sup>	54.214 <sup>65</sup>	36.82 <sup>3</sup>	58.22 <sup>33</sup>	48.15 <sup>255</sup>
30.4	33.207 <sup>113</sup>	52.94 <sup>104</sup>	II.290 <sup>108</sup>	17.77 <sup>87</sup>	54.149 <sup>108</sup>	36.79 <sup>3</sup>	57.89 <sup>39</sup>	50.70 <sup>209</sup>
Feb. 9.3	33.094 <sup>145</sup>	53.98 <sup>80</sup>	II.182 <sup>141</sup>	18.64 <sup>69</sup>	54.041 <sup>144</sup>	36.76 <sup>5</sup>	57.50 <sup>44</sup>	52.79 <sup>158</sup>
19.3	32.949 <sup>169</sup>	54.78 <sup>57</sup>	II.041 <sup>166</sup>	19.33 <sup>49</sup>	53.897 <sup>171</sup>	36.71 <sup>7</sup>	57.06 <sup>48</sup>	54.37 <sup>103</sup>
29.3	32.780 <sup>183</sup>	55.35 <sup>34</sup>	IO.875 <sup>180</sup>	19.82 <sup>31</sup>	53.726 <sup>188</sup>	36.64 <sup>11</sup>	56.58 <sup>49</sup>	55.40 <sup>49</sup>
März 10.3	32.597 <sup>188</sup>	55.69 <sup>10</sup>	IO.695 <sup>185</sup>	20.13 <sup>12</sup>	53.538 <sup>193</sup>	36.53 <sup>16</sup>	56.09 <sup>51</sup>	55.89 <sup>6</sup>
20.2	32.409 <sup>183</sup>	55.79 <sup>14</sup>	IO.510 <sup>179</sup>	20.25 <sup>8</sup>	53.345 <sup>186</sup>	36.37 <sup>19</sup>	55.58 <sup>49</sup>	55.83 <sup>60</sup>
30.2	32.226 <sup>167</sup>	55.65 <sup>36</sup>	IO.331 <sup>165</sup>	20.17 <sup>27</sup>	53.159 <sup>170</sup>	36.18 <sup>22</sup>	55.09 <sup>47</sup>	55.23 <sup>112</sup>
Apr. 9.2	32.059 <sup>143</sup>	55.29 <sup>59</sup>	IO.166 <sup>140</sup>	19.90 <sup>45</sup>	52.989 <sup>144</sup>	35.96 <sup>23</sup>	54.62 <sup>42</sup>	54.11 <sup>160</sup>
19.2	31.916 <sup>112</sup>	54.70 <sup>81</sup>	IO.026 <sup>109</sup>	19.45 <sup>64</sup>	52.845 <sup>109</sup>	35.73 <sup>22</sup>	54.20 <sup>37</sup>	52.51 <sup>205</sup>
29.1	31.804 <sup>75</sup>	53.89 <sup>102</sup>	9.917 <sup>72</sup>	18.81 <sup>82</sup>	52.736 <sup>70</sup>	35.51 <sup>19</sup>	53.83 <sup>32</sup>	50.46 <sup>244</sup>
Mai 9.1	31.729 <sup>35</sup>	52.87 <sup>122</sup>	9.845 <sup>32</sup>	17.99 <sup>99</sup>	52.666 <sup>25</sup>	35.32 <sup>14</sup>	53.51 <sup>24</sup>	48.02 <sup>278</sup>
19.1	31.694 <sup>50</sup>	51.65 <sup>138</sup>	9.813 <sup>10</sup>	17.00 <sup>115</sup>	52.641 <sup>21</sup>	35.18 <sup>7</sup>	53.27 <sup>16</sup>	45.24 <sup>304</sup>
29.0	31.700 <sup>90</sup>	50.27 <sup>152</sup>	9.823 <sup>53</sup>	15.85 <sup>127</sup>	52.662 <sup>66</sup>	35.11 <sup>1</sup>	53.11 <sup>8</sup>	42.20 <sup>325</sup>
Juni 8.0	31.750 <sup>128</sup>	48.75 <sup>163</sup>	9.876 <sup>93</sup>	14.58 <sup>138</sup>	52.728 <sup>110</sup>	35.12 <sup>10</sup>	53.03 <sup>0</sup>	38.95 <sup>336</sup>
18.0	31.840 <sup>164</sup>	47.12 <sup>170</sup>	9.969 <sup>131</sup>	13.20 <sup>145</sup>	52.838 <sup>151</sup>	35.22 <sup>17</sup>	53.03 <sup>8</sup>	35.59 <sup>338</sup>
28.0	31.968 <sup>194</sup>	45.42 <sup>171</sup>	IO.100 <sup>166</sup>	11.75 <sup>147</sup>	52.989 <sup>187</sup>	35.39 <sup>26</sup>	53.11 <sup>17</sup>	32.21 <sup>332</sup>
Juli 7.9	32.132 <sup>220</sup>	43.71 <sup>167</sup>	IO.266 <sup>196</sup>	10.28 <sup>146</sup>	53.176 <sup>200</sup>	35.65 <sup>32</sup>	53.28 <sup>24</sup>	28.89 <sup>315</sup>
17.9	32.326 <sup>241</sup>	42.04 <sup>159</sup>	IO.462 <sup>222</sup>	8.82 <sup>139</sup>	53.396 <sup>246</sup>	35.97 <sup>36</sup>	53.52 <sup>30</sup>	25.74 <sup>289</sup>
27.9	32.546 <sup>258</sup>	40.45 <sup>144</sup>	IO.684 <sup>243</sup>	7.43 <sup>127</sup>	53.642 <sup>268</sup>	36.33 <sup>39</sup>	53.82 <sup>37</sup>	22.85 <sup>256</sup>
Aug. 6.9	32.787 <sup>270</sup>	39.01 <sup>124</sup>	IO.927 <sup>259</sup>	6.16 <sup>110</sup>	53.910 <sup>285</sup>	36.72 <sup>38</sup>	54.19 <sup>42</sup>	20.29 <sup>212</sup>
16.8	33.045 <sup>277</sup>	37.77 <sup>98</sup>	II.186 <sup>271</sup>	5.06 <sup>89</sup>	54.195 <sup>296</sup>	37.10 <sup>36</sup>	54.61 <sup>46</sup>	18.17 <sup>160</sup>
26.8	33.315 <sup>281</sup>	36.79 <sup>70</sup>	II.457 <sup>278</sup>	4.17 <sup>63</sup>	54.491 <sup>303</sup>	37.46 <sup>30</sup>	55.07 <sup>49</sup>	16.57 <sup>103</sup>
Sept. 5.8	33.592 <sup>279</sup>	36.09 <sup>36</sup>	II.735 <sup>281</sup>	3.54 <sup>34</sup>	54.794 <sup>306</sup>	37.76 <sup>23</sup>	55.56 <sup>51</sup>	15.54 <sup>41</sup>
15.7	33.873 <sup>275</sup>	35.73 <sup>2</sup>	12.016 <sup>280</sup>	3.20 <sup>5</sup>	55.100 <sup>306</sup>	37.99 <sup>15</sup>	56.07 <sup>51</sup>	15.13 <sup>24</sup>
25.7	34.152 <sup>268</sup>	35.71 <sup>34</sup>	12.296 <sup>277</sup>	3.15 <sup>27</sup>	55.406 <sup>302</sup>	38.14 <sup>7</sup>	56.58 <sup>50</sup>	15.37 <sup>90</sup>
Okt. 5.7	34.427 <sup>254</sup>	36.05 <sup>68</sup>	12.573 <sup>268</sup>	3.42 <sup>57</sup>	55.708 <sup>294</sup>	38.21 <sup>3</sup>	57.08 <sup>47</sup>	16.27 <sup>152</sup>
15.7	34.695 <sup>238</sup>	36.73 <sup>100</sup>	12.841 <sup>256</sup>	3.99 <sup>85</sup>	56.002 <sup>282</sup>	38.18 <sup>9</sup>	57.55 <sup>43</sup>	17.79 <sup>211</sup>
25.6	34.949 <sup>216</sup>	37.73 <sup>128</sup>	13.097 <sup>240</sup>	4.84 <sup>110</sup>	56.284 <sup>266</sup>	38.09 <sup>16</sup>	57.98 <sup>38</sup>	19.90 <sup>262</sup>
Nov. 4.6	35.187 <sup>190</sup>	39.01 <sup>150</sup>	13.337 <sup>219</sup>	5.94 <sup>128</sup>	56.550 <sup>245</sup>	37.93 <sup>20</sup>	58.36 <sup>32</sup>	22.52 <sup>305</sup>
14.6	35.403 <sup>159</sup>	40.51 <sup>166</sup>	13.556 <sup>193</sup>	7.22 <sup>143</sup>	56.795 <sup>217</sup>	37.73 <sup>20</sup>	58.68 <sup>24</sup>	25.57 <sup>337</sup>
24.6	35.593 <sup>121</sup>	42.17 <sup>176</sup>	13.749 <sup>162</sup>	8.65 <sup>151</sup>	57.012 <sup>185</sup>	37.53 <sup>20</sup>	58.92 <sup>16</sup>	28.94 <sup>356</sup>
Dez. 4.5	35.752 <sup>82</sup>	43.93 <sup>179</sup>	13.911 <sup>126</sup>	10.16 <sup>152</sup>	57.197 <sup>148</sup>	37.33 <sup>17</sup>	59.08 <sup>7</sup>	32.50 <sup>364</sup>
14.5	35.873 <sup>38</sup>	45.72 <sup>176</sup>	14.037 <sup>86</sup>	11.68 <sup>149</sup>	57.345 <sup>104</sup>	37.16 <sup>14</sup>	59.15 <sup>2</sup>	36.14 <sup>359</sup>
24.5	35.955	47.48 <sup>166</sup>	14.123 <sup>43</sup>	13.17 <sup>141</sup>	57.449 <sup>57</sup>	37.02 <sup>9</sup>	59.13 <sup>11</sup>	39.73 <sup>342</sup>
34.4	35.993	49.14	14.166	14.58	57.506	36.93	59.02	43.15
Mittl. Ort sec $\delta$ , tg $\delta$	31.159 1.005	41.40 -0.104	9.200 1.000	7.32 -0.022	51.765 1.072	41.67 +0.386	55.73 2.169	31.11 -1.925

# Obere Kulmination Greenwich

Mittlere Zeit Greenw.	215) α Columbae		216) ο Aurigae		219) ζ Leporis		220) ζ Orionis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	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> 43 <sup>m</sup>	-9° 41'
Jan. 0.5	47.244	67.51	45.494	31.23	21.936	71.20	59.861	57.33
10.4	47.219	70.32	45.529	32.80	21.950	73.29	59.882	59.16
20.4	47.143	72.86	45.494	34.29	21.918	75.17	59.856	60.82
30.4	47.020	75.08	45.391	35.63	21.842	76.82	59.787	62.27
Feb. 9.3	46.854	76.91	45.227	36.76	21.725	78.20	59.678	63.47
19.3	46.652	78.33	45.012	37.63	21.575	79.27	59.535	64.42
29.3	46.425	79.30	44.758	38.20	21.399	80.04	59.366	65.10
März 10.3	46.181	79.82	44.479	38.44	21.207	80.49	59.181	65.51
20.2	45.932	79.88	44.191	38.34	21.008	80.63	58.989	65.65
30.2	45.689	79.50	43.910	37.91	20.813	80.45	58.801	65.52
Apr. 9.2	45.462	78.68	43.652	37.17	20.632	79.97	58.626	65.13
19.2	45.260	77.46	43.429	36.15	20.472	79.20	58.473	64.48
29.1	45.091	75.85	43.254	34.90	20.343	78.14	58.350	63.59
Mai 9.1	44.961	73.90	43.134	33.48	20.250	76.83	58.262	62.47
19.1	44.876	71.64	43.075	31.94	20.195	75.28	58.214	61.14
29.0	44.838	69.14	43.080	30.33	20.183	73.53	58.207	59.62
Juni 8.0	44.849	66.44	43.150	28.73	20.213	71.61	58.241	57.95
18.0	44.907	63.62	43.283	27.16	20.285	69.58	58.317	56.17
28.0	45.011	60.76	43.474	25.68	20.397	67.48	58.432	54.32
Juli 7.9	45.158	57.92	43.719	24.32	20.545	65.38	58.582	52.45
17.9	45.345	55.20	44.011	23.11	20.725	63.33	58.764	50.63
27.9	45.567	52.67	44.344	22.08	20.934	61.41	58.974	48.91
Aug. 6.9	45.818	50.42	44.710	21.24	21.167	59.67	59.206	47.34
16.8	46.093	48.53	45.102	20.59	21.419	58.18	59.457	46.00
26.8	46.387	47.06	45.515	20.15	21.686	57.00	59.722	44.94
Sept. 5.8	46.694	46.07	45.941	19.91	21.962	56.19	59.996	44.19
15.7	47.008	45.62	46.374	19.88	22.245	55.77	60.276	43.80
25.7	47.323	45.72	46.808	20.05	22.529	55.77	60.557	43.79
Okt. 5.7	47.632	46.38	47.238	20.42	22.810	56.21	60.836	44.17
15.7	47.931	47.59	47.658	20.98	23.083	57.07	61.108	44.93
25.6	48.212	49.31	48.061	21.74	23.346	58.32	61.370	46.04
Nov. 4.6	48.471	51.49	48.441	22.69	23.591	59.91	61.615	47.46
14.6	48.700	54.03	48.789	23.81	23.816	61.79	61.840	49.14
24.6	48.894	56.86	49.098	25.10	24.013	63.89	62.039	51.00
Dez. 4.5	49.047	59.86	49.359	26.53	24.177	66.12	62.207	52.98
14.5	49.154	62.94	49.564	28.07	24.304	68.41	62.339	55.00
24.5	49.211	65.99	49.707	29.68	24.390	70.66	62.429	57.00
34.4	49.217	68.91	49.782	31.29	24.430	72.82	62.476	58.90
Mittl. Ort sec δ, tg δ	45.065 1.208	58.07 -0.677	42.092 1.549	34.02 +1.183	19.802 1.035	63.09 -0.265	57.715 1.015	49.57 -0.171

Mittlere Zeit Greenw.	224) $\alpha$ Orionis		225) $\delta$ Aurigae		227) $\beta$ Aurigae		228) $\theta$ Aurigae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	5 <sup>h</sup> 50 <sup>m</sup>	+7° 23'	5 <sup>h</sup> 52 <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	52.682	29.14	60.087	45.08	42.784	22.27	18.805	25.01
10.4	52.722	28.21	60.140	46.90	42.839	23.59	18.861	25.87
20.4	52.716	27.40	60.114	48.64	42.830	24.86	18.859	26.73
30.4	52.665	26.71	60.013	50.25	42.756	26.04	18.799	27.53
Feb. 9.4	52.572	26.13	59.841	51.64	42.624	27.07	18.687	28.24
19.3	52.443	25.68	59.611	52.75	42.441	27.90	18.529	28.82
29.3	52.285	25.35	59.333	53.54	42.220	28.49	18.336	29.22
März 10.3	52.110	25.12	59.026	53.97	41.972	28.80	18.119	29.42
20.2	51.926	25.00	58.705	54.02	41.713	28.83	17.892	29.42
30.2	51.746	24.98	58.388	53.69	41.456	28.56	17.667	29.21
Apr. 9.2	51.578	25.06	58.091	53.01	41.217	28.03	17.458	28.80
19.2	51.431	25.26	57.831	51.99	41.008	27.25	17.275	28.21
29.1	51.314	25.56	57.618	50.70	40.839	26.26	17.129	27.48
Mai 9.1	51.233	25.98	57.464	49.19	40.719	25.10	17.026	26.64
19.1	51.191	26.52	57.375	47.50	40.654	23.83	16.972	25.73
29.1	51.191	27.17	57.355	45.71	40.646	22.49	16.970	24.78
Juni 8.0	51.233	27.93	57.405	43.87	40.697	21.14	17.020	23.85
18.0	51.316	28.78	57.524	42.04	40.805	19.81	17.121	22.95
28.0	51.437	29.69	57.709	40.27	40.966	18.53	17.270	22.11
Juli 7.9	51.594	30.65	57.953	38.61	41.178	17.35	17.462	21.35
17.9	51.782	31.62	58.252	37.09	41.433	16.29	17.695	20.68
27.9	51.997	32.56	58.597	35.74	41.727	15.36	17.960	20.12
Aug. 6.9	52.234	33.44	58.983	34.59	42.053	14.58	18.254	19.66
16.8	52.489	34.21	59.400	33.64	42.404	13.95	18.570	19.30
26.8	52.758	34.84	59.844	32.92	42.776	13.48	18.904	19.04
Sept. 5.8	53.037	35.29	60.305	32.43	43.162	13.16	19.250	18.86
15.8	53.321	35.53	60.777	32.18	43.557	12.99	19.605	18.77
25.7	53.608	35.56	61.255	32.17	43.956	12.98	19.962	18.76
Okt. 5.7	53.893	35.36	61.731	32.40	44.354	13.13	20.319	18.83
15.7	54.174	34.93	62.199	32.88	44.746	13.43	20.671	18.98
25.6	54.445	34.30	62.651	33.59	45.126	13.89	21.012	19.21
Nov. 4.6	54.703	33.50	63.080	34.54	45.487	14.51	21.337	19.53
14.6	54.943	32.56	63.475	35.72	45.823	15.30	21.641	19.96
24.6	55.159	31.53	63.829	37.11	46.124	16.23	21.915	20.50
Dez. 4.5	55.346	30.45	64.131	38.68	46.385	17.31	22.152	21.14
14.5	55.497	29.37	64.373	40.39	46.596	18.50	22.346	21.87
24.5	55.608	28.34	64.545	42.20	46.750	19.79	22.490	22.69
34.5	55.675	27.38	64.642	44.06	46.842	21.12	22.580	23.55
Mittl. Ort sec $\delta$ , tg $\delta$	50.415 1.008	35.84 +0.130	56.385 1.713	48.84 +1.391	39.637 1.413	26.65 +0.998	15.961 1.256	29.91 +0.759

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	229) $\eta$ Columbae		232) $\nu$ Orionis		234) 22 H. Camelop.		236) $\eta$ Geminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	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>	+69° 20'	6 <sup>h</sup> 10 <sup>m</sup>	+22° 31'
Jan. 0.5	44.217 <sup>24</sup>	78.20 <sup>317</sup>	2.627 <sup>57</sup>	37.83 <sup>51</sup>	7.69 <sup>8</sup>	56.12 <sup>255</sup>	5.414 <sup>68</sup>	45.67 <sup>5</sup>
10.4	44.193 <sup>82</sup>	81.37 <sup>292</sup>	2.684 <sup>8</sup>	37.32 <sup>42</sup>	7.77 <sup>5</sup>	58.67 <sup>248</sup>	5.482 <sup>16</sup>	45.62 <sup>3</sup>
20.4	44.111 <sup>137</sup>	84.29 <sup>258</sup>	2.692 <sup>40</sup>	36.90 <sup>34</sup>	7.72 <sup>17</sup>	61.15 <sup>231</sup>	5.498 <sup>34</sup>	45.65 <sup>7</sup>
30.4	43.974 <sup>186</sup>	86.87 <sup>218</sup>	2.652 <sup>85</sup>	36.56 <sup>25</sup>	7.55 <sup>29</sup>	63.46 <sup>204</sup>	5.464 <sup>83</sup>	45.72 <sup>11</sup>
Feb. 9.4	43.788 <sup>229</sup>	89.05 <sup>174</sup>	2.567 <sup>124</sup>	36.31 <sup>20</sup>	7.26 <sup>39</sup>	65.50 <sup>170</sup>	5.381 <sup>124</sup>	45.83 <sup>12</sup>
19.3	43.559 <sup>259</sup>	90.79 <sup>127</sup>	2.443 <sup>154</sup>	36.11 <sup>14</sup>	6.87 <sup>47</sup>	67.20 <sup>128</sup>	5.257 <sup>157</sup>	45.95 <sup>9</sup>
29.3	43.300 <sup>281</sup>	92.06 <sup>78</sup>	2.289 <sup>175</sup>	35.97 <sup>10</sup>	6.40 <sup>52</sup>	68.48 <sup>82</sup>	5.100 <sup>181</sup>	46.04 <sup>6</sup>
März 10.3	43.019 <sup>291</sup>	92.84 <sup>28</sup>	2.114 <sup>186</sup>	35.87 <sup>7</sup>	5.88 <sup>55</sup>	69.30 <sup>33</sup>	4.919 <sup>193</sup>	46.10 <sup>1</sup>
20.3	42.728 <sup>288</sup>	93.12 <sup>21</sup>	1.928 <sup>185</sup>	35.80 <sup>5</sup>	5.33 <sup>56</sup>	69.63 <sup>19</sup>	4.726 <sup>194</sup>	46.11 <sup>5</sup>
30.2	42.440 <sup>274</sup>	92.91 <sup>69</sup>	1.743 <sup>174</sup>	35.75 <sup>1</sup>	4.77 <sup>53</sup>	69.44 <sup>67</sup>	4.532 <sup>183</sup>	46.06 <sup>10</sup>
Apr. 9.2	42.166 <sup>251</sup>	92.22 <sup>115</sup>	1.569 <sup>153</sup>	35.74 <sup>1</sup>	4.24 <sup>49</sup>	68.77 <sup>112</sup>	4.349 <sup>163</sup>	45.96 <sup>15</sup>
19.2	41.915 <sup>219</sup>	91.07 <sup>157</sup>	1.416 <sup>125</sup>	35.75 <sup>6</sup>	3.75 <sup>41</sup>	67.65 <sup>154</sup>	4.186 <sup>134</sup>	45.81 <sup>17</sup>
29.1	41.696 <sup>178</sup>	89.50 <sup>197</sup>	1.291 <sup>89</sup>	35.81 <sup>12</sup>	3.34 <sup>32</sup>	66.11 <sup>188</sup>	4.052 <sup>97</sup>	45.64 <sup>19</sup>
Mai 9.1	41.518 <sup>133</sup>	87.53 <sup>232</sup>	1.202 <sup>50</sup>	35.93 <sup>18</sup>	3.02 <sup>23</sup>	64.23 <sup>216</sup>	3.955 <sup>57</sup>	45.45 <sup>18</sup>
19.1	41.385 <sup>83</sup>	85.21 <sup>260</sup>	1.152 <sup>8</sup>	36.11 <sup>25</sup>	2.79 <sup>13</sup>	62.07 <sup>236</sup>	3.898 <sup>13</sup>	45.27 <sup>16</sup>
29.1	41.302 <sup>30</sup>	82.61 <sup>284</sup>	1.144 <sup>35</sup>	36.36 <sup>32</sup>	2.66 <sup>0</sup>	59.71 <sup>248</sup>	3.885 <sup>31</sup>	45.11 <sup>12</sup>
Juni 8.0	41.272 <sup>21</sup>	79.77 <sup>298</sup>	1.179 <sup>77</sup>	36.68 <sup>39</sup>	2.66 <sup>10</sup>	57.23 <sup>254</sup>	3.916 <sup>74</sup>	44.99 <sup>7</sup>
18.0	41.293 <sup>74</sup>	76.79 <sup>307</sup>	1.256 <sup>116</sup>	37.07 <sup>45</sup>	2.76 <sup>21</sup>	54.69 <sup>251</sup>	3.990 <sup>116</sup>	44.92 <sup>3</sup>
28.0	41.367 <sup>122</sup>	73.72 <sup>305</sup>	1.372 <sup>153</sup>	37.52 <sup>50</sup>	2.97 <sup>31</sup>	52.18 <sup>244</sup>	4.106 <sup>155</sup>	44.89 <sup>3</sup>
Juli 8.0	41.489 <sup>169</sup>	70.67 <sup>296</sup>	1.525 <sup>185</sup>	38.02 <sup>53</sup>	3.28 <sup>40</sup>	49.74 <sup>230</sup>	4.261 <sup>188</sup>	44.92 <sup>6</sup>
17.9	41.658 <sup>212</sup>	67.71 <sup>278</sup>	1.710 <sup>214</sup>	38.55 <sup>52</sup>	3.68 <sup>49</sup>	47.44 <sup>210</sup>	4.449 <sup>219</sup>	44.98 <sup>9</sup>
27.9	41.870 <sup>249</sup>	64.93 <sup>251</sup>	1.924 <sup>237</sup>	39.07 <sup>50</sup>	4.17 <sup>57</sup>	45.34 <sup>188</sup>	4.558 <sup>244</sup>	45.07 <sup>10</sup>
Aug. 6.9	42.119 <sup>281</sup>	62.42 <sup>214</sup>	2.161 <sup>257</sup>	39.57 <sup>44</sup>	4.74 <sup>63</sup>	43.46 <sup>160</sup>	4.912 <sup>265</sup>	45.17 <sup>10</sup>
16.8	42.400 <sup>307</sup>	60.28 <sup>170</sup>	2.418 <sup>272</sup>	40.01 <sup>36</sup>	5.37 <sup>67</sup>	41.86 <sup>131</sup>	5.177 <sup>282</sup>	45.27 <sup>6</sup>
26.8	42.707 <sup>328</sup>	58.58 <sup>120</sup>	2.690 <sup>283</sup>	40.37 <sup>24</sup>	6.04 <sup>72</sup>	40.55 <sup>98</sup>	5.459 <sup>294</sup>	45.33 <sup>2</sup>
Sept. 5.8	43.035 <sup>339</sup>	57.38 <sup>63</sup>	2.973 <sup>291</sup>	40.61 <sup>11</sup>	6.76 <sup>75</sup>	39.57 <sup>65</sup>	5.753 <sup>304</sup>	45.35 <sup>4</sup>
15.8	43.374 <sup>346</sup>	56.75 <sup>5</sup>	3.264 <sup>295</sup>	40.72 <sup>4</sup>	7.51 <sup>77</sup>	38.92 <sup>29</sup>	6.057 <sup>309</sup>	45.31 <sup>11</sup>
25.7	43.720 <sup>345</sup>	56.71 <sup>4</sup>	3.559 <sup>296</sup>	40.68 <sup>19</sup>	8.28 <sup>76</sup>	38.63 <sup>8</sup>	6.366 <sup>311</sup>	45.20 <sup>19</sup>
Okt. 5.7	44.065 <sup>336</sup>	57.27 <sup>116</sup>	3.855 <sup>293</sup>	40.49 <sup>34</sup>	9.04 <sup>76</sup>	38.71 <sup>45</sup>	6.677 <sup>309</sup>	45.01 <sup>25</sup>
15.7	44.401 <sup>320</sup>	58.43 <sup>173</sup>	4.148 <sup>286</sup>	40.15 <sup>47</sup>	9.80 <sup>74</sup>	39.16 <sup>81</sup>	6.986 <sup>302</sup>	44.76 <sup>30</sup>
25.7	44.721 <sup>296</sup>	60.16 <sup>224</sup>	4.434 <sup>274</sup>	39.68 <sup>58</sup>	10.54 <sup>70</sup>	39.97 <sup>117</sup>	7.288 <sup>292</sup>	44.46 <sup>34</sup>
Nov. 4.6	45.017 <sup>264</sup>	62.40 <sup>268</sup>	4.708 <sup>258</sup>	39.10 <sup>66</sup>	11.24 <sup>64</sup>	41.14 <sup>152</sup>	7.580 <sup>275</sup>	44.12 <sup>35</sup>
14.6	45.281 <sup>225</sup>	65.08 <sup>301</sup>	4.966 <sup>234</sup>	38.44 <sup>70</sup>	11.88 <sup>58</sup>	42.66 <sup>185</sup>	7.855 <sup>253</sup>	43.77 <sup>34</sup>
24.6	45.506 <sup>178</sup>	68.09 <sup>324</sup>	5.200 <sup>205</sup>	37.74 <sup>70</sup>	12.46 <sup>49</sup>	44.51 <sup>211</sup>	8.108 <sup>222</sup>	43.43 <sup>29</sup>
Dez. 4.5	45.684 <sup>127</sup>	71.33 <sup>337</sup>	5.405 <sup>170</sup>	37.04 <sup>67</sup>	12.95 <sup>39</sup>	46.62 <sup>234</sup>	8.330 <sup>187</sup>	43.14 <sup>23</sup>
14.5	45.811 <sup>71</sup>	74.70 <sup>337</sup>	5.575 <sup>130</sup>	36.37 <sup>62</sup>	13.34 <sup>28</sup>	48.96 <sup>250</sup>	8.517 <sup>143</sup>	42.91 <sup>16</sup>
24.5	45.882 <sup>12</sup>	78.07 <sup>326</sup>	5.705 <sup>83</sup>	35.75 <sup>55</sup>	13.62 <sup>16</sup>	51.46 <sup>257</sup>	8.660 <sup>97</sup>	42.75 <sup>7</sup>
34.5	45.894	81.33	5.788	35.20	13.78	54.03	8.757	42.68
Mittl. Ort sec $\delta$ , tg $\delta$	41.872 1.363	-68.94 -0.927	0.267 1.034	44.60 +0.264	2.03 2.836	60.96 +2.654	2.933 1.083	52.44 +0.415

Mittlere Zeit Greenw.	240) ζ Canis maj.		241) μ Geminorum		242) ψ <sup>1</sup> Aurigae		243) β Canis maj.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	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	16.720	45.65	9.758	14.01	47.669	42.67	12.764	63.28
10.5	16.747	48.53	9.834	13.94	47.760	44.22	12.809	65.65
20.4	16.722	51.20	9.859	13.96	47.779	45.77	12.805	67.84
30.4	16.646	53.59	9.832	14.04	47.727	47.26	12.754	69.79
Feb. 9.4	16.524	55.65	9.756	14.16	47.608	48.61	12.658	71.46
19.3	16.361	57.33	9.638	14.30	47.429	49.77	12.524	72.82
29.3	16.165	58.62	9.484	14.42	47.202	50.69	12.358	73.85
März 10.3	15.947	59.49	9.306	14.51	46.941	51.30	12.169	74.55
20.3	15.716	59.93	9.115	14.55	46.660	51.60	11.969	74.91
30.2	15.483	59.95	8.921	14.53	46.377	51.56	11.766	74.93
Apr. 9.2	15.260	59.55	8.736	14.46	46.105	51.20	11.572	74.61
19.2	15.054	58.75	8.571	14.34	45.859	50.54	11.395	73.98
29.2	14.874	57.56	8.433	14.19	45.652	49.60	11.242	73.04
Mai 9.1	14.728	56.02	8.330	14.02	45.492	48.43	11.121	71.82
19.1	14.620	54.16	8.267	13.85	45.387	47.08	11.036	70.33
29.1	14.554	52.02	8.247	13.69	45.342	45.60	10.990	68.62
Juni 8.0	14.531	49.66	8.271	13.56	45.358	44.04	10.985	66.71
18.0	14.553	47.13	8.338	13.47	45.434	42.44	11.021	64.66
28.0	14.618	44.51	8.446	13.42	45.570	40.86	11.096	62.52
Juli 8.0	14.725	41.85	8.593	13.41	45.760	39.33	11.209	60.36
17.9	14.871	39.25	8.774	13.43	46.001	37.89	11.357	58.22
27.9	15.053	36.77	8.986	13.48	46.285	36.56	11.536	56.18
Aug. 6.9	15.266	34.51	9.224	13.53	46.608	35.36	11.743	54.33
16.9	15.506	32.54	9.484	13.57	46.964	34.32	11.973	52.72
26.8	15.770	30.93	9.761	13.58	47.347	33.44	12.223	51.40
Sept. 5.8	16.052	29.76	10.052	13.54	47.750	32.73	12.489	50.45
15.8	16.347	29.07	10.354	13.44	48.169	32.21	12.766	49.90
25.7	16.651	28.91	10.663	13.27	48.597	31.87	13.051	49.80
Okt. 5.7	16.958	29.28	10.975	13.02	49.030	31.73	13.340	50.15
15.7	17.263	30.20	11.286	12.71	49.461	31.80	13.627	50.96
25.7	17.559	31.63	11.592	12.34	49.884	32.07	13.908	52.20
Nov. 4.6	17.840	33.53	11.888	11.94	50.292	32.56	14.177	53.83
14.6	18.100	35.84	12.169	11.54	50.677	33.26	14.429	55.80
24.6	18.331	38.47	12.428	11.15	51.028	34.19	14.656	58.02
Dez. 4.6	18.528	41.32	12.658	10.82	51.338	35.31	14.854	60.42
14.5	18.683	44.31	12.853	10.55	51.597	36.61	15.015	62.92
24.5	18.791	47.33	13.005	10.36	51.796	38.06	15.134	65.43
34.5	18.849	50.27	13.110	10.27	51.928	39.60	15.206	67.86
Mittl. Ort	14.483	37.23	7.278	21.23	44.320	49.06	10.579	55.04
sec δ, tg δ	1.155	-0.578	1.083	+0.415	1.534	+1.164	1.051	-0.323

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	244) 8 Monocerotis		245) α Argus		246) 10 Monocerotis		247) 8 Lynx	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	6 <sup>h</sup> 19 <sup>m</sup>	+4° 37'	6 <sup>h</sup> 22 <sup>m</sup>	-52° 38'	6 <sup>h</sup> 24 <sup>m</sup>	-4° 42'	6 <sup>h</sup> 30 <sup>m</sup>	+61° 32'
Jan. 0.5	34.008 66	56.44 116	13.158 19	73.77 351	2.754 63	50.25 171	27.29 12	64.61 217
10.5	34.074 18	55.28 103	13.139 91	77.28 328	2.817 15	51.96 155	27.41 2	66.78 218
20.4	34.092 30	54.25 88	13.048 159	80.56 298	2.832 32	53.51 137	27.43 7	68.96 208
30.4	34.062 74	53.37 72	12.889 220	83.54 259	2.800 77	54.88 115	27.36 17	71.04 191
Feb. 9.4	33.988 113	52.65 57	12.669 272	86.13 215	2.723 115	56.03 93	27.19 24	72.95 165
19.3	33.875 145	52.08 42	12.397 314	88.28 167	2.608 148	56.96 70	26.95 32	74.60 133
29.3	33.730 168	51.66 27	12.083 344	89.95 117	2.460 170	57.66 48	26.63 36	75.93 94
März. 10.3	33.562 180	51.39 14	11.739 360	91.12 64	2.290 183	58.14 24	26.27 39	76.87 52
20.3	33.382 183	51.25 0	11.379 364	91.76 11	2.107 186	58.38 2	25.88 41	77.39 8
30.2	33.199 174	51.25 12	11.015 355	91.87 41	1.921 179	58.40 19	25.47 39	77.47 36
Apr. 9.2	33.025 157	51.37 25	10.660 333	91.46 91	1.742 162	58.21 41	25.08 36	77.11 77
19.2	32.868 132	51.62 37	10.327 301	90.55 138	1.580 138	57.80 61	24.72 31	76.34 115
29.2	32.736 100	51.99 50	10.026 261	89.17 183	1.442 108	57.19 81	24.41 26	75.19 148
Mai 9.1	32.636 64	52.49 63	9.765 212	87.34 222	1.334 73	56.38 99	24.15 18	73.71 176
19.1	32.572 25	53.12 74	9.553 157	85.12 257	1.261 34	55.39 116	23.97 11	71.95 197
29.1	32.547 15	53.86 84	9.396 100	82.55 284	1.227 4	54.23 130	23.86 2	69.98 212
Juni 8.0	32.562 55	54.70 92	9.296 39	79.71 305	1.231 44	52.93 140	23.84 5	67.86 221
18.0	32.617 93	55.62 99	9.257 22	76.66 318	1.275 82	51.53 149	23.89 14	65.65 222
28.0	32.710 129	56.61 103	9.279 82	73.48 322	1.357 118	50.04 152	24.03 21	63.43 219
Juli 8.0	32.839 161	57.64 102	9.361 141	70.26 316	1.475 150	48.52 150	24.24 28	61.24 211
17.9	33.000 190	58.66 98	9.502 196	67.10 302	1.625 180	47.02 144	24.52 35	59.13 197
27.9	33.190 214	59.64 91	9.698 247	64.08 277	1.805 206	45.58 131	24.87 40	57.16 181
Aug. 6.9	33.404 235	60.55 78	9.945 291	61.31 242	2.011 227	44.27 115	25.27 45	55.35 161
16.9	33.639 253	61.33 62	10.236 331	58.89 201	2.238 245	43.12 92	25.72 49	53.74 138
26.8	33.892 266	61.95 43	10.567 362	56.88 150	2.483 260	42.20 65	26.21 53	52.36 113
Sept. 5.8	34.158 276	62.38 19	10.929 387	55.38 93	2.743 271	41.55 35	26.74 55	51.23 85
15.8	34.434 282	62.57 5	11.316 401	54.45 31	3.014 279	41.20 1	27.29 57	50.38 57
25.7	34.716 286	62.52 31	11.717 407	54.14 32	3.293 282	41.19 33	27.86 58	49.81 27
Okt. 5.7	35.002 286	62.21 56	12.124 402	54.46 97	3.575 283	41.52 67	28.44 57	49.54 4
15.7	35.288 281	61.65 79	12.526 388	55.43 159	3.858 278	42.19 100	29.01 57	49.58 36
25.7	35.569 271	60.86 99	12.914 362	57.02 215	4.136 270	43.19 128	29.58 55	49.94 69
Nov. 4.6	35.840 257	59.87 116	13.276 327	59.17 266	4.406 254	44.47 152	30.13 52	50.63 101
14.6	36.097 236	58.71 127	13.603 281	61.83 307	4.660 233	45.99 169	30.65 48	51.64 132
24.6	36.333 209	57.44 132	13.884 226	64.90 336	4.893 207	47.68 182	31.13 41	52.96 159
Dez. 4.6	36.542 176	56.12 134	14.110 165	68.26 356	5.100 172	49.50 186	31.54 35	54.55 185
14.5	36.718 136	54.78 129	14.275 96	71.82 362	5.272 133	51.36 184	31.89 27	56.40 203
24.5	36.854 92	53.49 120	14.371 24	75.44 356	5.405 90	53.20 176	32.16 17	58.43 216
34.5	36.946	52.29	14.395	79.00	5.495	54.96	32.33	60.59
Mittl. Ort sec δ, tg δ	31.750 1.003	-64.23 +0.081	10.488 1.648	65.48 -1.310	0.549 1.003	42.18 -0.082	22.98 2.099	71.76 -1.846

Mittlere Zeit Greenw.	249) $\xi^2$ Canis maj.		248) 23 H. Camelop.		251) $\gamma$ Geminorum		250) 5I Aurigae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	6 <sup>h</sup> 31 <sup>m</sup>	-22° 53'	6 <sup>h</sup> 32 <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'
1920								
Jan. 0.5	44.397 <sup>52</sup>	70.25 <sup>265</sup>	46.57 <sup>18</sup>	68.70 <sup>293</sup>	7.842 <sup>87</sup>	59.20 <sup>47</sup>	9.902 <sup>104</sup>	37.87 <sup>96</sup>
10.5	44.449 <sup>2</sup>	72.90 <sup>246</sup>	46.75 <sup>6</sup>	71.63 <sup>289</sup>	7.929 <sup>37</sup>	58.73 <sup>36</sup>	10.006 <sup>41</sup>	38.83 <sup>101</sup>
20.4	44.451 <sup>48</sup>	75.36 <sup>222</sup>	46.69 <sup>31</sup>	74.52 <sup>275</sup>	7.966 <sup>13</sup>	58.37 <sup>26</sup>	10.047 <sup>20</sup>	39.84 <sup>102</sup>
30.4	44.403 <sup>95</sup>	77.58 <sup>192</sup>	46.38 <sup>54</sup>	77.27 <sup>250</sup>	7.953 <sup>62</sup>	58.11 <sup>16</sup>	10.027 <sup>80</sup>	40.86 <sup>97</sup>
Feb. 9.4	44.308 <sup>135</sup>	79.50 <sup>159</sup>	45.84 <sup>74</sup>	79.77 <sup>214</sup>	7.891 <sup>105</sup>	57.95 <sup>9</sup>	9.947 <sup>133</sup>	41.83 <sup>88</sup>
19.4	44.173 <sup>169</sup>	81.09 <sup>124</sup>	45.10 <sup>91</sup>	81.91 <sup>171</sup>	7.786 <sup>140</sup>	57.86 <sup>3</sup>	9.814 <sup>177</sup>	42.71 <sup>73</sup>
29.3	44.004 <sup>194</sup>	82.33 <sup>87</sup>	44.19 <sup>104</sup>	83.62 <sup>120</sup>	7.646 <sup>166</sup>	57.83 <sup>0</sup>	9.637 <sup>209</sup>	43.44 <sup>54</sup>
März 10.3	43.810 <sup>207</sup>	83.20 <sup>49</sup>	43.15 <sup>111</sup>	84.82 <sup>66</sup>	7.480 <sup>182</sup>	57.83 <sup>3</sup>	9.428 <sup>228</sup>	43.98 <sup>32</sup>
20.3	43.603 <sup>212</sup>	83.69 <sup>12</sup>	42.04 <sup>113</sup>	85.48 <sup>8</sup>	7.298 <sup>187</sup>	57.86 <sup>3</sup>	9.200 <sup>235</sup>	44.30 <sup>10</sup>
30.2	43.391 <sup>207</sup>	83.81 <sup>25</sup>	40.91 <sup>112</sup>	85.56 <sup>47</sup>	7.111 <sup>181</sup>	57.89 <sup>5</sup>	8.965 <sup>228</sup>	44.40 <sup>14</sup>
Apr. 9.2	43.184 <sup>190</sup>	83.56 <sup>61</sup>	39.79 <sup>105</sup>	85.09 <sup>102</sup>	6.930 <sup>164</sup>	57.94 <sup>4</sup>	8.737 <sup>208</sup>	44.26 <sup>36</sup>
19.2	42.994 <sup>168</sup>	82.95 <sup>96</sup>	38.74 <sup>93</sup>	84.07 <sup>151</sup>	6.766 <sup>140</sup>	57.98 <sup>6</sup>	8.529 <sup>178</sup>	43.90 <sup>56</sup>
29.2	42.826 <sup>137</sup>	81.99 <sup>127</sup>	37.81 <sup>79</sup>	82.56 <sup>194</sup>	6.626 <sup>108</sup>	58.04 <sup>9</sup>	8.351 <sup>140</sup>	43.34 <sup>74</sup>
Mai 9.1	42.689 <sup>102</sup>	80.72 <sup>157</sup>	37.02 <sup>61</sup>	80.62 <sup>231</sup>	6.518 <sup>72</sup>	58.13 <sup>11</sup>	8.211 <sup>94</sup>	42.60 <sup>87</sup>
19.1	42.587 <sup>64</sup>	79.15 <sup>182</sup>	36.41 <sup>42</sup>	78.31 <sup>260</sup>	6.446 <sup>32</sup>	58.24 <sup>15</sup>	8.117 <sup>45</sup>	41.73 <sup>97</sup>
29.1	42.523 <sup>23</sup>	77.33 <sup>205</sup>	35.99 <sup>22</sup>	75.71 <sup>280</sup>	6.414 <sup>8</sup>	58.39 <sup>19</sup>	8.072 <sup>6</sup>	40.76 <sup>104</sup>
Juni 8.1	42.500 <sup>18</sup>	75.28 <sup>220</sup>	35.77 <sup>0</sup>	72.91 <sup>292</sup>	6.422 <sup>50</sup>	58.58 <sup>24</sup>	8.078 <sup>56</sup>	39.72 <sup>107</sup>
18.0	42.518 <sup>59</sup>	73.08 <sup>231</sup>	35.77 <sup>21</sup>	69.99 <sup>296</sup>	6.472 <sup>90</sup>	58.82 <sup>27</sup>	8.134 <sup>106</sup>	38.65 <sup>107</sup>
28.0	42.577 <sup>98</sup>	70.77 <sup>235</sup>	35.98 <sup>41</sup>	67.03 <sup>293</sup>	6.562 <sup>126</sup>	59.09 <sup>30</sup>	8.240 <sup>152</sup>	37.58 <sup>105</sup>
Juli 8.0	42.675 <sup>134</sup>	68.42 <sup>233</sup>	36.39 <sup>61</sup>	64.10 <sup>282</sup>	6.688 <sup>160</sup>	59.39 <sup>31</sup>	8.392 <sup>195</sup>	36.53 <sup>100</sup>
17.9	42.809 <sup>167</sup>	66.09 <sup>222</sup>	37.00 <sup>78</sup>	61.28 <sup>265</sup>	6.848 <sup>190</sup>	59.70 <sup>31</sup>	8.587 <sup>232</sup>	35.53 <sup>94</sup>
27.9	42.976 <sup>197</sup>	63.87 <sup>205</sup>	37.78 <sup>95</sup>	58.63 <sup>243</sup>	7.038 <sup>217</sup>	60.01 <sup>28</sup>	8.819 <sup>266</sup>	34.59 <sup>86</sup>
Aug. 6.9	43.173 <sup>224</sup>	61.82 <sup>180</sup>	38.73 <sup>109</sup>	56.20 <sup>216</sup>	7.255 <sup>239</sup>	60.29 <sup>22</sup>	9.085 <sup>294</sup>	33.73 <sup>79</sup>
16.9	43.397 <sup>246</sup>	60.02 <sup>148</sup>	39.82 <sup>121</sup>	54.04 <sup>184</sup>	7.494 <sup>258</sup>	60.51 <sup>15</sup>	9.379 <sup>317</sup>	32.94 <sup>71</sup>
26.8	43.643 <sup>264</sup>	58.54 <sup>110</sup>	41.03 <sup>132</sup>	52.20 <sup>148</sup>	7.752 <sup>273</sup>	60.66 <sup>4</sup>	9.696 <sup>337</sup>	32.23 <sup>62</sup>
Sept. 5.8	43.907 <sup>279</sup>	57.44 <sup>66</sup>	42.35 <sup>138</sup>	50.72 <sup>110</sup>	8.025 <sup>285</sup>	60.70 <sup>8</sup>	10.033 <sup>353</sup>	31.61 <sup>53</sup>
15.8	44.186 <sup>289</sup>	56.78 <sup>19</sup>	43.73 <sup>144</sup>	49.62 <sup>69</sup>	8.310 <sup>295</sup>	60.62 <sup>22</sup>	10.386 <sup>363</sup>	31.08 <sup>44</sup>
25.8	44.475 <sup>295</sup>	56.59 <sup>30</sup>	45.17 <sup>146</sup>	48.93 <sup>26</sup>	8.605 <sup>299</sup>	60.40 <sup>35</sup>	10.749 <sup>369</sup>	30.64 <sup>34</sup>
Okt. 5.7	44.770 <sup>296</sup>	56.89 <sup>80</sup>	46.63 <sup>146</sup>	48.67 <sup>18</sup>	8.904 <sup>302</sup>	60.05 <sup>48</sup>	11.118 <sup>371</sup>	30.30 <sup>24</sup>
15.7	45.066 <sup>290</sup>	57.69 <sup>127</sup>	48.09 <sup>143</sup>	48.85 <sup>63</sup>	9.206 <sup>299</sup>	59.57 <sup>60</sup>	11.489 <sup>368</sup>	30.06 <sup>11</sup>
25.7	45.356 <sup>281</sup>	58.96 <sup>170</sup>	49.52 <sup>136</sup>	49.48 <sup>107</sup>	9.505 <sup>293</sup>	58.97 <sup>68</sup>	11.857 <sup>359</sup>	29.95 <sup>2</sup>
Nov. 4.6	45.637 <sup>263</sup>	60.66 <sup>208</sup>	50.88 <sup>127</sup>	50.55 <sup>149</sup>	9.798 <sup>279</sup>	58.29 <sup>75</sup>	12.216 <sup>342</sup>	29.97 <sup>17</sup>
14.6	45.900 <sup>240</sup>	62.74 <sup>239</sup>	52.15 <sup>114</sup>	52.04 <sup>190</sup>	10.077 <sup>260</sup>	57.54 <sup>76</sup>	12.558 <sup>317</sup>	30.14 <sup>33</sup>
24.6	46.140 <sup>209</sup>	65.13 <sup>260</sup>	53.29 <sup>98</sup>	53.94 <sup>226</sup>	10.337 <sup>233</sup>	56.78 <sup>75</sup>	12.875 <sup>285</sup>	30.47 <sup>49</sup>
Dez. 4.6	46.349 <sup>171</sup>	67.73 <sup>272</sup>	54.27 <sup>79</sup>	56.20 <sup>255</sup>	10.570 <sup>201</sup>	56.03 <sup>70</sup>	13.160 <sup>244</sup>	30.96 <sup>66</sup>
14.5	46.520 <sup>129</sup>	70.45 <sup>276</sup>	55.06 <sup>57</sup>	58.75 <sup>278</sup>	10.771 <sup>160</sup>	55.33 <sup>62</sup>	13.404 <sup>194</sup>	31.62 <sup>80</sup>
24.5	46.649 <sup>82</sup>	73.21 <sup>270</sup>	55.63 <sup>34</sup>	61.53 <sup>292</sup>	10.931 <sup>116</sup>	54.71 <sup>51</sup>	13.598 <sup>138</sup>	32.42 <sup>92</sup>
34.5	46.731	75.91	55.97	64.45	11.047	54.20	13.736	33.34
Mittl Ort secδ, tg δ	42.185 1.086	62.11 -0.422	36.39 5.568	75.68 +5.478	5.462 1.043	67.31 +0.296	7.013 1.295	45.71 +0.823



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	252) $\nu$ Argus		253) $S$ Monocerotis		254) $\varepsilon$ Geminorum		256) $\xi$ Geminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	$6^h 35^m$	$-43^\circ 7'$	$6^h 36^m$	$+9^\circ 58'$	$6^h 30^m$	$+25^\circ 12'$	$6^h 40^m$	$+12^\circ 58'$
1920					<b>Bibl.</b>	<b>Jag.</b>		
Jan. 0.5	21.223 <sub>26</sub>	38.88 <sub>338</sub>	36.683 <sub>86</sub>	6.69 <sub>89</sub>	3.204 <sub>100</sub>	33.25 <sub>6</sub>	50.338 <sub>92</sub>	50.06 <sub>72</sub>
10.5	21.249 <sub>36</sub>	42.26 <sub>317</sub>	36.769 <sub>37</sub>	5.80 <sub>75</sub>	3.304 <sub>46</sub>	33.31 <sub>17</sub>	50.430 <sub>42</sub>	49.34 <sub>59</sub>
20.4	21.213 <sub>95</sub>	45.43 <sub>290</sub>	36.806 <sub>12</sub>	5.05 <sub>62</sub>	3.350 <sub>8</sub>	33.48 <sub>24</sub>	50.472 <sub>8</sub>	48.75 <sub>46</sub>
30.4	21.118 <sub>151</sub>	48.33 <sub>255</sub>	36.794 <sub>60</sub>	4.43 <sub>49</sub>	3.342 <sub>60</sub>	33.72 <sub>29</sub>	50.464 <sub>55</sub>	48.29 <sub>34</sub>
Feb. 9.4	20.967 <sub>199</sub>	50.88 <sub>214</sub>	36.734 <sub>101</sub>	3.94 <sub>36</sub>	3.282 <sub>105</sub>	34.01 <sub>30</sub>	50.409 <sub>99</sub>	47.95 <sub>24</sub>
19.4	20.768 <sub>237</sub>	53.02 <sub>170</sub>	36.633 <sub>136</sub>	3.58 <sub>25</sub>	3.177 <sub>145</sub>	34.31 <sub>29</sub>	50.310 <sub>134</sub>	47.71 <sub>14</sub>
29.3	20.531 <sub>266</sub>	54.72 <sub>123</sub>	36.497 <sub>162</sub>	3.33 <sub>15</sub>	3.032 <sub>173</sub>	34.60 <sub>24</sub>	50.176 <sub>162</sub>	47.57 <sub>7</sub>
März 10.3	20.265 <sub>284</sub>	55.95 <sub>74</sub>	36.335 <sub>177</sub>	3.18 <sub>6</sub>	2.859 <sub>191</sub>	34.84 <sub>17</sub>	50.014 <sub>178</sub>	47.50 <sub>2</sub>
20.3	19.981 <sub>289</sub>	56.69 <sub>24</sub>	36.158 <sub>183</sub>	3.12 <sub>2</sub>	2.668 <sub>197</sub>	35.01 <sub>9</sub>	49.836 <sub>184</sub>	47.48 <sub>4</sub>
30.2	19.692 <sub>283</sub>	56.93 <sub>24</sub>	35.975 <sub>177</sub>	3.14 <sub>9</sub>	2.471 <sub>192</sub>	35.10 <sub>1</sub>	49.652 <sub>179</sub>	47.52 <sub>7</sub>
Apr. 9.2	19.409 <sub>267</sub>	56.69 <sub>71</sub>	35.798 <sub>162</sub>	3.23 <sub>16</sub>	2.279 <sub>176</sub>	35.11 <sub>7</sub>	49.473 <sub>164</sub>	47.59 <sub>12</sub>
19.2	19.142 <sub>242</sub>	55.98 <sub>117</sub>	35.636 <sub>139</sub>	3.39 <sub>24</sub>	2.103 <sub>152</sub>	35.04 <sub>15</sub>	49.309 <sub>142</sub>	47.71 <sub>16</sub>
29.2	18.900 <sub>207</sub>	54.81 <sub>160</sub>	35.497 <sub>109</sub>	3.63 <sub>30</sub>	1.951 <sub>118</sub>	34.89 <sub>21</sub>	49.167 <sub>112</sub>	47.87 <sub>21</sub>
Mai 9.1	18.693 <sub>168</sub>	53.21 <sub>197</sub>	35.388 <sub>74</sub>	3.93 <sub>39</sub>	1.833 <sub>80</sub>	34.68 <sub>25</sub>	49.055 <sub>77</sub>	48.08 <sub>26</sub>
19.1	18.525 <sub>123</sub>	51.24 <sub>232</sub>	35.314 <sub>36</sub>	4.32 <sub>46</sub>	1.753 <sub>39</sub>	34.43 <sub>27</sub>	48.978 <sub>39</sub>	48.34 <sub>31</sub>
29.1	18.402 <sub>74</sub>	48.92 <sub>259</sub>	35.278 <sub>4</sub>	4.78 <sub>53</sub>	1.714 <sub>4</sub>	34.16 <sub>27</sub>	48.939 <sub>1</sub>	48.65 <sub>36</sub>
Juni 8.1	18.328 <sub>24</sub>	46.33 <sub>281</sub>	35.282 <sub>43</sub>	5.31 <sub>60</sub>	1.718 <sub>48</sub>	33.89 <sub>27</sub>	48.940 <sub>41</sub>	49.01 <sub>41</sub>
18.0	18.304 <sub>26</sub>	43.52 <sub>295</sub>	35.325 <sub>81</sub>	5.91 <sub>64</sub>	1.766 <sub>89</sub>	33.62 <sub>25</sub>	48.981 <sub>79</sub>	49.42 <sub>46</sub>
28.0	18.330 <sub>76</sub>	40.57 <sub>301</sub>	35.406 <sub>118</sub>	6.55 <sub>67</sub>	1.855 <sub>129</sub>	33.37 <sub>23</sub>	49.060 <sub>116</sub>	49.88 <sub>47</sub>
Juli 8.0	18.406 <sub>123</sub>	37.56 <sub>298</sub>	35.524 <sub>150</sub>	7.22 <sub>67</sub>	1.984 <sub>164</sub>	33.14 <sub>22</sub>	49.176 <sub>149</sub>	50.35 <sub>49</sub>
17.9	18.529 <sub>168</sub>	34.58 <sub>286</sub>	35.674 <sub>180</sub>	7.89 <sub>65</sub>	2.148 <sub>197</sub>	32.92 <sub>20</sub>	49.325 <sub>179</sub>	50.84 <sub>46</sub>
27.9	18.697 <sub>210</sub>	31.72 <sub>265</sub>	35.854 <sub>206</sub>	8.54 <sub>59</sub>	2.345 <sub>225</sub>	32.72 <sub>19</sub>	49.504 <sub>206</sub>	51.30 <sub>42</sub>
Aug. 6.9	18.907 <sub>247</sub>	29.07 <sub>234</sub>	36.060 <sub>229</sub>	9.13 <sub>50</sub>	2.570 <sub>249</sub>	32.53 <sub>20</sub>	49.710 <sub>229</sub>	51.72 <sub>34</sub>
16.9	19.154 <sub>280</sub>	26.73 <sub>196</sub>	36.289 <sub>247</sub>	9.63 <sub>37</sub>	2.819 <sub>270</sub>	32.33 <sub>22</sub>	49.939 <sub>248</sub>	52.06 <sub>23</sub>
26.8	19.434 <sub>306</sub>	24.77 <sub>150</sub>	36.536 <sub>263</sub>	10.00 <sub>22</sub>	3.089 <sub>287</sub>	32.11 <sub>26</sub>	50.187 <sub>264</sub>	52.29 <sub>11</sub>
Sept. 5.8	19.740 <sub>328</sub>	23.27 <sub>96</sub>	36.799 <sub>276</sub>	10.22 <sub>4</sub>	3.376 <sub>301</sub>	31.85 <sub>31</sub>	50.451 <sub>278</sub>	52.40 <sub>5</sub>
15.8	20.068 <sub>342</sub>	22.31 <sub>99</sub>	37.075 <sub>285</sub>	10.26 <sub>17</sub>	3.677 <sub>311</sub>	31.54 <sub>35</sub>	50.729 <sub>287</sub>	52.35 <sub>22</sub>
25.8	20.410 <sub>351</sub>	21.92 <sub>22</sub>	37.360 <sub>291</sub>	10.09 <sub>36</sub>	3.988 <sub>317</sub>	31.19 <sub>39</sub>	51.016 <sub>294</sub>	52.13 <sub>39</sub>
Okt. 5.7	20.761 <sub>351</sub>	22.14 <sub>84</sub>	37.651 <sub>293</sub>	9.73 <sub>56</sub>	4.305 <sub>321</sub>	30.80 <sub>44</sub>	51.310 <sub>297</sub>	51.74 <sub>56</sub>
15.7	21.112 <sub>342</sub>	22.98 <sub>142</sub>	37.944 <sub>291</sub>	9.17 <sub>75</sub>	4.626 <sub>319</sub>	30.36 <sub>46</sub>	51.607 <sub>296</sub>	51.18 <sub>71</sub>
25.7	21.454 <sub>327</sub>	24.40 <sub>198</sub>	38.235 <sub>285</sub>	8.42 <sub>88</sub>	4.945 <sub>312</sub>	29.90 <sub>46</sub>	51.903 <sub>290</sub>	50.47 <sub>84</sub>
Nov. 4.6	21.781 <sub>302</sub>	26.38 <sub>247</sub>	38.520 <sub>272</sub>	7.54 <sub>101</sub>	5.257 <sub>300</sub>	29.44 <sub>44</sub>	52.193 <sub>278</sub>	49.63 <sub>91</sub>
14.6	22.083 <sub>268</sub>	28.85 <sub>287</sub>	38.792 <sub>254</sub>	6.53 <sub>108</sub>	5.557 <sub>280</sub>	29.00 <sub>38</sub>	52.471 <sub>260</sub>	48.72 <sub>97</sub>
24.6	22.351 <sub>227</sub>	31.72 <sub>317</sub>	39.046 <sub>228</sub>	5.45 <sub>111</sub>	5.837 <sub>253</sub>	28.62 <sub>31</sub>	52.731 <sub>235</sub>	47.75 <sub>98</sub>
Dez. 4.6	22.578 <sub>177</sub>	34.89 <sub>337</sub>	39.274 <sub>196</sub>	4.34 <sub>109</sub>	6.090 <sub>219</sub>	28.31 <sub>21</sub>	52.966 <sub>203</sub>	46.77 <sub>93</sub>
14.5	22.755 <sub>122</sub>	38.26 <sub>345</sub>	39.470 <sub>158</sub>	3.25 <sub>102</sub>	6.309 <sub>177</sub>	28.10 <sub>9</sub>	53.169 <sub>164</sub>	45.84 <sub>87</sub>
24.5	22.877 <sub>63</sub>	41.71 <sub>341</sub>	39.628 <sub>113</sub>	2.23 <sub>93</sub>	6.486 <sub>129</sub>	28.01 <sub>1</sub>	53.333 <sub>120</sub>	44.97 <sub>76</sub>
34.5	22.940	45.12	39.741	1.30	6.615	28.02	53.453	44.21
Mittl. Ort	18.780	31.07	34.379	14.97	0.690	41.63	48.005	58.50
sec $\delta$ , $\eta$ $\delta$	1.370	-0.937	1.015	+0.176	1.105	+0.471	1.026	+0.231

Mittlere Zeit Greenw.	257) $\alpha$ Canis maj.*)		258) 18 Monocerotis		262) $\alpha$ Pictoris		261) $\delta$ Geminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	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	39.436 <sup>64</sup>	29.66 <sup>242</sup>	43.660 <sup>88</sup>	53.95 <sup>135</sup>	25.51 <sup>1</sup>	25.52 <sup>371</sup>	33.794 <sup>116</sup>	23.30 <sup>60</sup>
10.5	39.500 <sup>14</sup>	32.08 <sup>224</sup>	43.748 <sup>39</sup>	52.60 <sup>121</sup>	25.50 <sup>10</sup>	29.23 <sup>355</sup>	33.910 <sup>58</sup>	23.90 <sup>69</sup>
20.4	39.514 <sup>34</sup>	34.32 <sup>201</sup>	43.787 <sup>10</sup>	51.39 <sup>105</sup>	25.40 <sup>19</sup>	32.78 <sup>328</sup>	33.968 <sup>1</sup>	24.59 <sup>75</sup>
30.4	39.480 <sup>81</sup>	36.33 <sup>175</sup>	43.777 <sup>56</sup>	50.34 <sup>87</sup>	25.21 <sup>28</sup>	36.06 <sup>294</sup>	33.967 <sup>59</sup>	25.34 <sup>75</sup>
Feb. 9.4	39.399 <sup>121</sup>	38.08 <sup>144</sup>	43.721 <sup>98</sup>	49.47 <sup>68</sup>	24.93 <sup>34</sup>	39.00 <sup>253</sup>	33.908 <sup>109</sup>	26.09 <sup>72</sup>
19.4	39.278 <sup>156</sup>	39.52 <sup>113</sup>	43.623 <sup>133</sup>	48.79 <sup>51</sup>	24.59 <sup>40</sup>	41.53 <sup>206</sup>	33.799 <sup>153</sup>	26.81 <sup>63</sup>
29.3	39.122 <sup>180</sup>	40.65 <sup>79</sup>	43.490 <sup>159</sup>	48.28 <sup>35</sup>	24.19 <sup>43</sup>	43.59 <sup>157</sup>	33.646 <sup>187</sup>	27.44 <sup>52</sup>
März 10.3	38.942 <sup>195</sup>	41.44 <sup>47</sup>	43.331 <sup>175</sup>	47.93 <sup>17</sup>	23.76 <sup>47</sup>	45.16 <sup>104</sup>	33.459 <sup>207</sup>	27.96 <sup>36</sup>
20.3	38.747 <sup>200</sup>	41.91 <sup>15</sup>	43.156 <sup>182</sup>	47.76 <sup>2</sup>	23.29 <sup>48</sup>	46.20 <sup>50</sup>	33.252 <sup>216</sup>	28.32 <sup>19</sup>
30.2	38.547 <sup>195</sup>	42.06 <sup>18</sup>	42.974 <sup>177</sup>	47.74 <sup>12</sup>	22.81 <sup>48</sup>	46.70 <sup>4</sup>	33.036 <sup>212</sup>	28.51 <sup>0</sup>
Apr. 9.2	38.352 <sup>180</sup>	41.88 <sup>49</sup>	42.797 <sup>163</sup>	47.86 <sup>26</sup>	22.33 <sup>46</sup>	46.66 <sup>57</sup>	32.824 <sup>196</sup>	28.51 <sup>16</sup>
19.2	38.172 <sup>158</sup>	41.39 <sup>79</sup>	42.634 <sup>143</sup>	48.12 <sup>41</sup>	21.87 <sup>43</sup>	46.09 <sup>107</sup>	32.628 <sup>171</sup>	28.35 <sup>33</sup>
29.2	38.014 <sup>130</sup>	40.60 <sup>106</sup>	42.491 <sup>113</sup>	48.53 <sup>54</sup>	21.44 <sup>39</sup>	45.02 <sup>155</sup>	32.457 <sup>137</sup>	28.02 <sup>47</sup>
Mai 9.1	37.884 <sup>95</sup>	39.54 <sup>132</sup>	42.378 <sup>81</sup>	49.07 <sup>67</sup>	21.05 <sup>33</sup>	43.47 <sup>200</sup>	32.320 <sup>97</sup>	27.55 <sup>59</sup>
19.1	37.789 <sup>58</sup>	38.22 <sup>154</sup>	42.297 <sup>44</sup>	49.74 <sup>79</sup>	20.72 <sup>27</sup>	41.47 <sup>239</sup>	32.223 <sup>53</sup>	26.96 <sup>67</sup>
29.1	37.731 <sup>20</sup>	36.68 <sup>173</sup>	42.253 <sup>6</sup>	50.53 <sup>90</sup>	20.45 <sup>20</sup>	39.08 <sup>272</sup>	32.170 <sup>6</sup>	26.29 <sup>74</sup>
Juni 8.1	37.711 <sup>21</sup>	34.95 <sup>188</sup>	42.247 <sup>33</sup>	51.43 <sup>97</sup>	20.25 <sup>13</sup>	36.36 <sup>298</sup>	32.164 <sup>40</sup>	25.55 <sup>77</sup>
18.0	37.732 <sup>59</sup>	33.07 <sup>197</sup>	42.280 <sup>69</sup>	52.40 <sup>104</sup>	20.12 <sup>6</sup>	33.38 <sup>317</sup>	32.204 <sup>86</sup>	24.78 <sup>79</sup>
28.0	37.791 <sup>96</sup>	31.10 <sup>202</sup>	42.349 <sup>106</sup>	53.44 <sup>108</sup>	20.06 <sup>2</sup>	30.21 <sup>326</sup>	32.290 <sup>128</sup>	23.99 <sup>77</sup>
Juli 8.0	37.887 <sup>132</sup>	29.08 <sup>199</sup>	42.455 <sup>138</sup>	54.52 <sup>107</sup>	20.08 <sup>10</sup>	26.95 <sup>326</sup>	32.418 <sup>169</sup>	23.22 <sup>76</sup>
17.9	38.019 <sup>163</sup>	27.09 <sup>190</sup>	42.593 <sup>167</sup>	55.59 <sup>102</sup>	20.18 <sup>17</sup>	23.69 <sup>318</sup>	32.587 <sup>204</sup>	22.46 <sup>73</sup>
27.9	38.182 <sup>191</sup>	25.19 <sup>175</sup>	42.760 <sup>194</sup>	56.61 <sup>94</sup>	20.35 <sup>25</sup>	20.51 <sup>297</sup>	32.791 <sup>236</sup>	21.73 <sup>70</sup>
Aug. 6.9	38.373 <sup>216</sup>	23.44 <sup>153</sup>	42.954 <sup>217</sup>	57.55 <sup>81</sup>	20.60 <sup>31</sup>	17.54 <sup>268</sup>	33.027 <sup>264</sup>	21.03 <sup>66</sup>
16.9	38.589 <sup>238</sup>	21.91 <sup>124</sup>	43.171 <sup>237</sup>	58.36 <sup>63</sup>	20.91 <sup>37</sup>	14.86 <sup>229</sup>	33.291 <sup>287</sup>	20.37 <sup>63</sup>
26.8	38.827 <sup>255</sup>	20.67 <sup>90</sup>	43.408 <sup>253</sup>	58.99 <sup>42</sup>	21.28 <sup>42</sup>	12.57 <sup>131</sup>	33.578 <sup>307</sup>	19.74 <sup>59</sup>
Sept. 5.8	39.082 <sup>270</sup>	19.77 <sup>50</sup>	43.661 <sup>267</sup>	59.41 <sup>18</sup>	21.70 <sup>46</sup>	10.76 <sup>126</sup>	33.885 <sup>324</sup>	19.15 <sup>57</sup>
15.8	39.352 <sup>280</sup>	19.27 <sup>8</sup>	43.928 <sup>277</sup>	59.59 <sup>9</sup>	22.16 <sup>49</sup>	9.50 <sup>65</sup>	34.209 <sup>335</sup>	18.58 <sup>53</sup>
25.8	39.632 <sup>287</sup>	19.19 <sup>36</sup>	44.205 <sup>285</sup>	59.50 <sup>36</sup>	22.65 <sup>50</sup>	8.85 <sup>0</sup>	34.544 <sup>345</sup>	18.05 <sup>49</sup>
Okt. 5.7	39.919 <sup>288</sup>	19.55 <sup>81</sup>	44.490 <sup>287</sup>	59.14 <sup>64</sup>	23.15 <sup>51</sup>	8.85 <sup>66</sup>	34.889 <sup>349</sup>	17.56 <sup>44</sup>
15.7	40.207 <sup>285</sup>	20.36 <sup>123</sup>	44.777 <sup>287</sup>	58.50 <sup>89</sup>	23.66 <sup>50</sup>	9.51 <sup>131</sup>	35.238 <sup>349</sup>	17.12 <sup>37</sup>
25.7	40.492 <sup>277</sup>	21.59 <sup>163</sup>	45.064 <sup>281</sup>	57.61 <sup>112</sup>	24.16 <sup>47</sup>	10.82 <sup>193</sup>	35.587 <sup>343</sup>	16.75 <sup>28</sup>
Nov. 4.6	40.769 <sup>262</sup>	23.22 <sup>196</sup>	45.345 <sup>270</sup>	56.49 <sup>130</sup>	24.63 <sup>43</sup>	12.75 <sup>248</sup>	35.930 <sup>330</sup>	16.47 <sup>16</sup>
14.6	41.031 <sup>241</sup>	25.18 <sup>223</sup>	45.615 <sup>252</sup>	55.19 <sup>144</sup>	25.06 <sup>37</sup>	15.23 <sup>296</sup>	36.260 <sup>310</sup>	16.31 <sup>4</sup>
24.6	41.272 <sup>212</sup>	27.41 <sup>241</sup>	45.867 <sup>227</sup>	53.75 <sup>151</sup>	25.43 <sup>30</sup>	18.19 <sup>332</sup>	36.570 <sup>282</sup>	16.27 <sup>10</sup>
Dez. 4.6	41.484 <sup>178</sup>	29.82 <sup>252</sup>	46.094 <sup>195</sup>	52.24 <sup>153</sup>	25.73 <sup>22</sup>	21.51 <sup>358</sup>	36.852 <sup>244</sup>	16.37 <sup>26</sup>
14.5	41.662 <sup>137</sup>	32.34 <sup>253</sup>	46.289 <sup>158</sup>	50.71 <sup>149</sup>	25.95 <sup>14</sup>	25.09 <sup>372</sup>	37.096 <sup>200</sup>	16.63 <sup>40</sup>
24.5	41.799 <sup>92</sup>	34.87 <sup>247</sup>	46.447 <sup>113</sup>	49.22 <sup>140</sup>	26.09 <sup>5</sup>	28.81 <sup>373</sup>	37.296 <sup>148</sup>	17.03 <sup>55</sup>
34.5	41.891	37.34	46.560	47.82	26.14	32.54	37.444	17.58
Mittl. Ort sec $\delta$ , tg $\delta$	37.237 1.044	21.30 -0.298	41.419 1.001	62.39 +0.044	22.29 2.120	18.78 -1.869	31.094 1.207	32.22 +0.676

\*) Ort des Hauptsterns; die jährliche Parallaxe (c.38) ist bereits berücksichtigt

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	265) 15 Lyncis		266) θ Capris maj.		268) ε Canis maj.		269) ζ Geminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	6 <sup>h</sup> 50 <sup>m</sup>	+58° 31'	6 <sup>h</sup> 50 <sup>m</sup>	-11° 56'	6 <sup>h</sup> 55 <sup>m</sup>	-28° 51'	6 <sup>h</sup> 59 <sup>m</sup>	+20° 41'
Jan. 0.5	25.181 <sub>154</sub>	36.43 <sub>200</sub>	30.584 <sub>82</sub>	23.24 <sub>218</sub>	31.131 <sub>72</sub>	52.27 <sub>298</sub>	24.342 <sub>117</sub>	10.40 <sub>28</sub>
10.5	25.335 <sub>64</sub>	38.43 <sub>205</sub>	30.666 <sub>34</sub>	25.42 <sub>203</sub>	31.203 <sub>18</sub>	55.25 <sub>281</sub>	24.459 <sub>65</sub>	10.12 <sub>14</sub>
20.5	25.399 <sub>27</sub>	40.48 <sub>201</sub>	30.700 <sub>16</sub>	27.45 <sub>181</sub>	31.221 <sub>35</sub>	58.06 <sub>258</sub>	24.524 <sub>12</sub>	9.98 <sub>2</sub>
30.4	25.372 <sub>115</sub>	42.49 <sub>191</sub>	30.684 <sub>63</sub>	29.26 <sub>157</sub>	31.186 <sub>86</sub>	60.64 <sub>228</sub>	24.536 <sub>40</sub>	9.96 <sub>7</sub>
Feb. 9.4	25.257 <sub>193</sub>	44.40 <sub>171</sub>	30.621 <sub>105</sub>	30.83 <sub>131</sub>	31.100 <sub>130</sub>	62.92 <sub>195</sub>	24.496 <sub>86</sub>	10.03 <sub>14</sub>
19.4	25.064 <sub>261</sub>	46.11 <sub>144</sub>	30.516 <sub>139</sub>	32.14 <sub>102</sub>	30.970 <sub>168</sub>	64.87 <sub>157</sub>	24.410 <sub>127</sub>	10.17 <sub>18</sub>
29.3	24.803 <sub>312</sub>	47.55 <sub>110</sub>	30.377 <sub>167</sub>	33.16 <sub>74</sub>	30.802 <sub>197</sub>	66.44 <sub>117</sub>	24.283 <sub>158</sub>	10.35 <sub>20</sub>
März 10.3	24.491 <sub>345</sub>	48.65 <sub>72</sub>	30.210 <sub>184</sub>	33.90 <sub>44</sub>	30.605 <sub>216</sub>	67.61 <sub>76</sub>	24.125 <sub>179</sub>	10.55 <sub>18</sub>
20.3	24.146 <sub>360</sub>	49.37 <sub>32</sub>	30.026 <sub>190</sub>	34.34 <sub>16</sub>	30.389 <sub>225</sub>	68.37 <sub>35</sub>	23.946 <sub>188</sub>	10.73 <sub>16</sub>
30.3	23.786 <sub>358</sub>	49.69 <sub>10</sub>	29.836 <sub>188</sub>	34.50 <sub>13</sub>	30.164 <sub>222</sub>	68.72 <sub>6</sub>	23.758 <sub>186</sub>	10.89 <sub>12</sub>
Apr. 9.2	23.428 <sub>335</sub>	49.59 <sub>50</sub>	29.648 <sub>176</sub>	34.37 <sub>40</sub>	29.942 <sub>211</sub>	68.66 <sub>46</sub>	23.572 <sub>175</sub>	11.01 <sub>7</sub>
19.2	23.093 <sub>299</sub>	49.09 <sub>88</sub>	29.472 <sub>155</sub>	33.97 <sub>66</sub>	29.731 <sub>191</sub>	68.20 <sub>85</sub>	23.397 <sub>154</sub>	11.08 <sub>4</sub>
29.2	22.794 <sub>248</sub>	48.21 <sub>121</sub>	29.317 <sub>129</sub>	33.31 <sub>91</sub>	29.540 <sub>163</sub>	67.35 <sub>122</sub>	23.243 <sub>125</sub>	11.12 <sub>0</sub>
Mai 9.2	22.546 <sub>189</sub>	47.00 <sub>151</sub>	29.188 <sub>96</sub>	32.40 <sub>114</sub>	29.377 <sub>131</sub>	66.13 <sub>155</sub>	23.118 <sub>91</sub>	11.12 <sub>2</sub>
19.1	22.357 <sub>121</sub>	45.49 <sub>174</sub>	29.092 <sub>61</sub>	31.26 <sub>135</sub>	29.246 <sub>93</sub>	64.58 <sub>185</sub>	23.027 <sub>53</sub>	11.10 <sub>4</sub>
29.1	22.236 <sub>50</sub>	43.75 <sub>192</sub>	29.031 <sub>24</sub>	29.91 <sub>153</sub>	29.153 <sub>54</sub>	62.73 <sub>210</sub>	22.974 <sub>14</sub>	11.06 <sub>3</sub>
Juni 8.1	22.186 <sub>24</sub>	41.83 <sub>203</sub>	29.007 <sub>15</sub>	28.38 <sub>166</sub>	29.099 <sub>13</sub>	60.63 <sub>231</sub>	22.960 <sub>27</sub>	11.03 <sub>3</sub>
18.0	22.210 <sub>95</sub>	39.80 <sub>210</sub>	29.022 <sub>51</sub>	26.72 <sub>176</sub>	29.086 <sub>28</sub>	58.32 <sub>245</sub>	22.987 <sub>67</sub>	11.00 <sub>3</sub>
28.0	22.305 <sub>164</sub>	37.70 <sub>211</sub>	29.073 <sub>88</sub>	24.96 <sub>182</sub>	29.114 <sub>69</sub>	55.87 <sub>252</sub>	23.054 <sub>104</sub>	10.97 <sub>2</sub>
Juli 8.0	22.469 <sub>230</sub>	35.59 <sub>207</sub>	29.161 <sub>122</sub>	23.14 <sub>180</sub>	29.183 <sub>108</sub>	53.35 <sub>252</sub>	23.158 <sub>139</sub>	10.95 <sub>2</sub>
18.0	22.699 <sub>290</sub>	33.52 <sub>198</sub>	29.283 <sub>153</sub>	21.34 <sub>173</sub>	29.291 <sub>143</sub>	50.83 <sub>244</sub>	23.297 <sub>171</sub>	10.93 <sub>3</sub>
27.9	22.989 <sub>343</sub>	31.54 <sub>187</sub>	29.436 <sub>182</sub>	19.61 <sub>161</sub>	29.434 <sub>178</sub>	48.39 <sub>228</sub>	23.468 <sub>200</sub>	10.90 <sub>6</sub>
Aug. 6.9	23.332 <sub>391</sub>	29.67 <sub>170</sub>	29.618 <sub>206</sub>	18.00 <sub>141</sub>	29.612 <sub>208</sub>	46.11 <sub>204</sub>	23.668 <sub>225</sub>	10.84 <sub>11</sub>
16.9	23.723 <sub>431</sub>	27.97 <sub>152</sub>	29.824 <sub>229</sub>	16.59 <sub>116</sub>	29.820 <sub>236</sub>	44.07 <sub>172</sub>	23.893 <sub>247</sub>	10.73 <sub>16</sub>
26.8	24.154 <sub>465</sub>	26.45 <sub>132</sub>	30.053 <sub>247</sub>	15.43 <sub>85</sub>	30.056 <sub>259</sub>	42.35 <sub>133</sub>	24.140 <sub>267</sub>	10.57 <sub>25</sub>
Sept. 5.8	24.619 <sub>493</sub>	25.13 <sub>108</sub>	30.300 <sub>262</sub>	14.58 <sub>51</sub>	30.315 <sub>278</sub>	41.02 <sub>88</sub>	24.407 <sub>282</sub>	10.32 <sub>33</sub>
15.8	25.112 <sub>514</sub>	24.05 <sub>83</sub>	30.562 <sub>275</sub>	14.07 <sub>11</sub>	30.593 <sub>294</sub>	40.14 <sub>38</sub>	24.689 <sub>294</sub>	9.99 <sub>43</sub>
25.8	25.626 <sub>527</sub>	23.22 <sub>55</sub>	30.837 <sub>283</sub>	13.96 <sub>29</sub>	30.887 <sub>304</sub>	39.76 <sub>15</sub>	24.983 <sub>305</sub>	9.56 <sub>53</sub>
Okt. 5.7	26.153 <sub>534</sub>	22.67 <sub>27</sub>	31.120 <sub>287</sub>	14.25 <sub>69</sub>	31.191 <sub>309</sub>	39.91 <sub>68</sub>	25.288 <sub>312</sub>	9.03 <sub>62</sub>
15.7	26.687 <sub>532</sub>	22.40 <sub>3</sub>	31.407 <sub>287</sub>	14.94 <sub>109</sub>	31.500 <sub>308</sub>	40.59 <sub>121</sub>	25.600 <sub>313</sub>	8.41 <sub>68</sub>
25.7	27.219 <sub>520</sub>	22.43 <sub>34</sub>	31.694 <sub>282</sub>	16.03 <sub>145</sub>	31.808 <sub>301</sub>	41.80 <sub>170</sub>	25.913 <sub>310</sub>	7.73 <sub>73</sub>
Nov. 4.7	27.739 <sub>497</sub>	22.77 <sub>66</sub>	31.976 <sub>269</sub>	17.48 <sub>176</sub>	32.109 <sub>285</sub>	43.50 <sub>213</sub>	26.223 <sub>301</sub>	7.00 <sub>74</sub>
14.6	28.236 <sub>462</sub>	23.43 <sub>98</sub>	32.245 <sub>251</sub>	19.24 <sub>200</sub>	32.394 <sub>263</sub>	45.63 <sub>250</sub>	26.524 <sub>284</sub>	6.26 <sub>73</sub>
24.6	28.698 <sub>416</sub>	24.41 <sub>127</sub>	32.496 <sub>225</sub>	21.24 <sub>217</sub>	32.657 <sub>234</sub>	48.13 <sub>277</sub>	26.808 <sub>261</sub>	5.53 <sub>66</sub>
Dez. 4.6	29.114 <sub>356</sub>	25.68 <sub>154</sub>	32.721 <sub>193</sub>	23.41 <sub>227</sub>	32.891 <sub>196</sub>	50.90 <sub>295</sub>	27.069 <sub>230</sub>	4.87 <sub>57</sub>
14.5	29.470 <sub>285</sub>	27.22 <sub>178</sub>	32.914 <sub>153</sub>	25.68 <sub>229</sub>	33.087 <sub>151</sub>	53.85 <sub>302</sub>	27.299 <sub>191</sub>	4.30 <sub>46</sub>
24.5	29.755 <sub>204</sub>	29.00 <sub>194</sub>	33.067 <sub>109</sub>	27.97 <sub>223</sub>	33.238 <sub>102</sub>	56.87 <sub>301</sub>	27.490 <sub>145</sub>	3.84 <sub>34</sub>
34.5	29.959	30.94	33.176	30.20	33.340	59.88	27.635	3.50
Mittl. Ort sec δ, tg δ	21.258 1.916	45.56 +1.634	28.388 1.022	15.04 -0.211	28.863 1.142	44.73 -0.551	21.931 1.069	19.79 +0.378

Mittlere Zeit Greenw.	271) $\gamma$ Canis maj.		273) $\delta$ Canis maj.		274) $\beta_3$ Aurigae		277) $\lambda$ Geminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$7^h 0^m$	$-15^\circ 30'$	$7^h 5^m$	$-26^\circ 15'$	$7^h 6^m$	$+39^\circ 26'$	$7^h 13^m$	$+16^\circ 40'$
Jan. 0.5	10.574 <sup>90</sup>	59.24 <sup>240</sup>	10.522 <sup>85</sup>	62.86 <sup>290</sup>	12.160 <sup>144</sup>	58.29 <sup>88</sup>	32.141 <sup>128</sup>	58.86 <sup>57</sup>
10.5	10.664 <sup>39</sup>	61.64 <sup>223</sup>	10.607 <sup>33</sup>	65.76 <sup>275</sup>	12.304 <sup>82</sup>	59.17 <sup>100</sup>	32.269 <sup>77</sup>	58.29 <sup>42</sup>
20.5	10.703 <sup>11</sup>	63.87 <sup>203</sup>	10.640 <sup>21</sup>	68.51 <sup>253</sup>	12.386 <sup>19</sup>	60.17 <sup>106</sup>	32.346 <sup>24</sup>	57.87 <sup>28</sup>
30.4	10.692 <sup>58</sup>	65.90 <sup>177</sup>	10.619 <sup>71</sup>	71.04 <sup>224</sup>	12.405 <sup>45</sup>	61.23 <sup>108</sup>	32.370 <sup>27</sup>	57.59 <sup>14</sup>
Feb. 9.4	10.634 <sup>102</sup>	67.67 <sup>149</sup>	10.548 <sup>116</sup>	73.28 <sup>193</sup>	12.360 <sup>102</sup>	62.31 <sup>104</sup>	32.343 <sup>74</sup>	57.45 <sup>4</sup>
19.4	10.532 <sup>138</sup>	69.16 <sup>119</sup>	10.432 <sup>155</sup>	75.21 <sup>156</sup>	12.258 <sup>151</sup>	63.35 <sup>93</sup>	32.269 <sup>115</sup>	57.41 <sup>4</sup>
29.4	10.394 <sup>166</sup>	70.35 <sup>88</sup>	10.277 <sup>185</sup>	76.77 <sup>118</sup>	12.107 <sup>190</sup>	64.28 <sup>79</sup>	32.154 <sup>147</sup>	57.45 <sup>11</sup>
März 10.3	10.228 <sup>185</sup>	71.23 <sup>55</sup>	10.092 <sup>205</sup>	77.95 <sup>80</sup>	11.917 <sup>216</sup>	65.07 <sup>59</sup>	32.007 <sup>169</sup>	57.56 <sup>14</sup>
20.3	10.043 <sup>194</sup>	71.78 <sup>24</sup>	9.887 <sup>214</sup>	78.75 <sup>40</sup>	11.701 <sup>230</sup>	65.66 <sup>37</sup>	31.838 <sup>181</sup>	57.70 <sup>16</sup>
30.3	9.849 <sup>193</sup>	72.02 <sup>7</sup>	9.673 <sup>215</sup>	79.15 <sup>1</sup>	11.471 <sup>230</sup>	66.03 <sup>14</sup>	31.657 <sup>182</sup>	57.86 <sup>16</sup>
Apr. 9.2	9.656 <sup>181</sup>	71.95 <sup>38</sup>	9.458 <sup>204</sup>	79.16 <sup>38</sup>	11.241 <sup>218</sup>	66.17 <sup>10</sup>	31.475 <sup>173</sup>	58.02 <sup>16</sup>
19.2	9.475 <sup>163</sup>	71.57 <sup>66</sup>	9.254 <sup>186</sup>	78.78 <sup>75</sup>	11.023 <sup>194</sup>	66.07 <sup>32</sup>	31.302 <sup>154</sup>	58.18 <sup>16</sup>
29.2	9.312 <sup>138</sup>	70.91 <sup>95</sup>	9.068 <sup>161</sup>	78.03 <sup>110</sup>	10.829 <sup>162</sup>	65.75 <sup>52</sup>	31.148 <sup>129</sup>	58.34 <sup>14</sup>
Mai 9.2	9.174 <sup>107</sup>	69.96 <sup>120</sup>	8.907 <sup>130</sup>	76.93 <sup>142</sup>	10.667 <sup>122</sup>	65.23 <sup>71</sup>	31.019 <sup>98</sup>	58.48 <sup>15</sup>
19.1	9.067 <sup>71</sup>	68.76 <sup>143</sup>	8.777 <sup>94</sup>	75.51 <sup>172</sup>	10.545 <sup>77</sup>	64.52 <sup>85</sup>	30.921 <sup>62</sup>	58.63 <sup>16</sup>
29.1	8.996 <sup>36</sup>	67.33 <sup>162</sup>	8.683 <sup>57</sup>	73.79 <sup>197</sup>	10.468 <sup>30</sup>	63.67 <sup>97</sup>	30.859 <sup>25</sup>	58.79 <sup>16</sup>
Juni 8.1	8.960 <sup>3</sup>	65.71 <sup>179</sup>	8.626 <sup>17</sup>	71.82 <sup>217</sup>	10.438 <sup>18</sup>	62.70 <sup>106</sup>	30.834 <sup>13</sup>	58.95 <sup>18</sup>
18.1	8.963 <sup>40</sup>	63.92 <sup>189</sup>	8.609 <sup>23</sup>	69.65 <sup>232</sup>	10.456 <sup>67</sup>	61.64 <sup>110</sup>	30.847 <sup>51</sup>	59.13 <sup>18</sup>
28.0	9.003 <sup>76</sup>	62.03 <sup>195</sup>	8.632 <sup>62</sup>	67.33 <sup>239</sup>	10.523 <sup>112</sup>	60.54 <sup>113</sup>	30.898 <sup>88</sup>	59.31 <sup>18</sup>
Juli 8.0	9.079 <sup>112</sup>	60.08 <sup>195</sup>	8.694 <sup>99</sup>	64.94 <sup>241</sup>	10.635 <sup>156</sup>	59.41 <sup>114</sup>	30.986 <sup>122</sup>	59.49 <sup>17</sup>
18.0	9.191 <sup>143</sup>	58.13 <sup>189</sup>	8.793 <sup>135</sup>	62.53 <sup>234</sup>	10.791 <sup>195</sup>	58.27 <sup>112</sup>	31.108 <sup>153</sup>	59.66 <sup>14</sup>
27.9	9.334 <sup>173</sup>	56.24 <sup>175</sup>	8.928 <sup>168</sup>	60.19 <sup>219</sup>	10.986 <sup>231</sup>	57.15 <sup>108</sup>	31.261 <sup>182</sup>	59.80 <sup>9</sup>
Aug. 6.9	9.507 <sup>199</sup>	54.49 <sup>156</sup>	9.096 <sup>198</sup>	58.00 <sup>197</sup>	11.217 <sup>263</sup>	56.07 <sup>105</sup>	31.443 <sup>208</sup>	59.89 <sup>3</sup>
16.9	9.706 <sup>223</sup>	52.93 <sup>130</sup>	9.294 <sup>226</sup>	56.03 <sup>167</sup>	11.480 <sup>290</sup>	55.02 <sup>99</sup>	31.651 <sup>230</sup>	59.92 <sup>7</sup>
26.9	9.929 <sup>243</sup>	51.63 <sup>97</sup>	9.520 <sup>249</sup>	54.36 <sup>130</sup>	11.770 <sup>315</sup>	54.03 <sup>94</sup>	31.881 <sup>251</sup>	59.85 <sup>18</sup>
Sept. 5.8	10.172 <sup>261</sup>	50.66 <sup>60</sup>	9.769 <sup>269</sup>	53.06 <sup>87</sup>	12.085 <sup>335</sup>	53.09 <sup>87</sup>	32.132 <sup>268</sup>	59.67 <sup>30</sup>
15.8	10.433 <sup>274</sup>	50.06 <sup>20</sup>	10.038 <sup>286</sup>	52.19 <sup>39</sup>	12.420 <sup>351</sup>	52.22 <sup>79</sup>	32.400 <sup>283</sup>	59.37 <sup>44</sup>
25.8	10.707 <sup>285</sup>	49.86 <sup>24</sup>	10.324 <sup>298</sup>	51.80 <sup>12</sup>	12.771 <sup>364</sup>	51.43 <sup>70</sup>	32.683 <sup>295</sup>	58.93 <sup>58</sup>
Okt. 5.8	10.992 <sup>291</sup>	50.10 <sup>68</sup>	10.622 <sup>304</sup>	51.92 <sup>63</sup>	13.135 <sup>373</sup>	50.73 <sup>60</sup>	32.978 <sup>303</sup>	58.35 <sup>71</sup>
15.7	11.283 <sup>292</sup>	50.78 <sup>110</sup>	10.926 <sup>306</sup>	52.55 <sup>115</sup>	13.508 <sup>376</sup>	50.13 <sup>47</sup>	33.281 <sup>307</sup>	57.64 <sup>83</sup>
25.7	11.575 <sup>287</sup>	51.88 <sup>150</sup>	11.232 <sup>301</sup>	53.70 <sup>162</sup>	13.884 <sup>372</sup>	49.66 <sup>32</sup>	33.588 <sup>307</sup>	56.81 <sup>91</sup>
Nov. 4.7	11.862 <sup>276</sup>	53.38 <sup>184</sup>	11.533 <sup>288</sup>	55.32 <sup>204</sup>	14.256 <sup>362</sup>	49.34 <sup>16</sup>	33.895 <sup>300</sup>	55.90 <sup>96</sup>
14.6	12.138 <sup>258</sup>	55.22 <sup>212</sup>	11.821 <sup>268</sup>	57.36 <sup>241</sup>	14.618 <sup>344</sup>	49.18 <sup>4</sup>	34.195 <sup>287</sup>	54.94 <sup>97</sup>
24.6	12.396 <sup>233</sup>	57.34 <sup>232</sup>	12.089 <sup>240</sup>	59.77 <sup>268</sup>	14.962 <sup>316</sup>	49.22 <sup>23</sup>	34.482 <sup>265</sup>	53.97 <sup>94</sup>
Dez. 4.6	12.629 <sup>201</sup>	59.66 <sup>243</sup>	12.329 <sup>205</sup>	62.45 <sup>285</sup>	15.278 <sup>279</sup>	49.45 <sup>43</sup>	34.747 <sup>236</sup>	53.03 <sup>87</sup>
14.6	12.830 <sup>161</sup>	62.09 <sup>248</sup>	12.534 <sup>163</sup>	65.30 <sup>294</sup>	15.557 <sup>232</sup>	49.88 <sup>63</sup>	34.983 <sup>199</sup>	52.16 <sup>76</sup>
24.5	12.991 <sup>117</sup>	64.57 <sup>244</sup>	12.697 <sup>114</sup>	68.24 <sup>293</sup>	15.789 <sup>179</sup>	50.51 <sup>81</sup>	35.182 <sup>155</sup>	51.40 <sup>63</sup>
34.5	13.108	67.01	12.811	71.17	15.968	51.32	35.337	50.77
Mittl. Ort sec $\delta$ , tg $\delta$	8.375 1.038	51.20 -0.278	8.272 1.115	55.43 -0.494	9.345 1.295	68.60 +0.823	29.805 1.044	68.72 +0.300

Mittlere Zeit Greenw.	278) $\pi$ Argus		279) $\delta$ Geminorum		280) $\rho$ Lynceis sq.		281) $\delta$ Volantis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$7^h 14^m$	$-36^\circ 57'$	$7^h 15^m$	$+22^\circ 7'$	$7^h 16^m$	$+55^\circ 25'$	$7^h 16^m$	$-67^\circ 48'$
Jan. 0.5	21.370 <sup>85</sup>	17.88 <sup>332</sup>	23.233 <sup>135</sup>	40.82 <sup>23</sup>	24.314 <sup>190</sup>	49.72 <sup>176</sup>	56.44 <sup>4</sup>	43.78 <sup>382</sup>
10.5	21.455 <sup>28</sup>	21.20 <sup>318</sup>	23.368 <sup>82</sup>	40.59 <sup>8</sup>	24.504 <sup>107</sup>	51.48 <sup>188</sup>	56.48 <sup>8</sup>	47.60 <sup>373</sup>
20.5	21.483 <sup>31</sup>	24.38 <sup>298</sup>	23.450 <sup>28</sup>	40.51 <sup>5</sup>	24.611 <sup>22</sup>	53.36 <sup>192</sup>	56.40 <sup>19</sup>	51.33 <sup>354</sup>
30.4	21.452 <sup>87</sup>	27.36 <sup>268</sup>	23.478 <sup>25</sup>	40.56 <sup>16</sup>	24.633 <sup>62</sup>	55.28 <sup>189</sup>	56.21 <sup>30</sup>	54.87 <sup>326</sup>
Feb. 9.4	21.365 <sup>136</sup>	30.04 <sup>233</sup>	23.453 <sup>74</sup>	40.72 <sup>24</sup>	24.571 <sup>139</sup>	57.17 <sup>176</sup>	55.91 <sup>39</sup>	58.13 <sup>290</sup>
19.4	21.229 <sup>179</sup>	32.37 <sup>194</sup>	23.379 <sup>117</sup>	40.96 <sup>28</sup>	24.432 <sup>207</sup>	58.93 <sup>156</sup>	55.52 <sup>46</sup>	61.03 <sup>249</sup>
29.4	21.050 <sup>212</sup>	34.31 <sup>152</sup>	23.262 <sup>151</sup>	41.24 <sup>29</sup>	24.225 <sup>261</sup>	60.49 <sup>129</sup>	55.06 <sup>53</sup>	63.52 <sup>201</sup>
März 10.3	20.838 <sup>235</sup>	35.83 <sup>108</sup>	23.111 <sup>174</sup>	41.53 <sup>28</sup>	23.964 <sup>300</sup>	61.78 <sup>97</sup>	54.53 <sup>57</sup>	65.53 <sup>152</sup>
20.3	20.603 <sup>248</sup>	36.91 <sup>61</sup>	22.937 <sup>186</sup>	41.81 <sup>24</sup>	23.664 <sup>321</sup>	62.75 <sup>59</sup>	53.96 <sup>57</sup>	67.05 <sup>99</sup>
30.3	20.355 <sup>250</sup>	37.52 <sup>17</sup>	22.751 <sup>188</sup>	42.05 <sup>19</sup>	23.343 <sup>326</sup>	63.34 <sup>22</sup>	53.37 <sup>61</sup>	68.04 <sup>45</sup>
Apr. 9.3	20.105 <sup>242</sup>	37.69 <sup>29</sup>	22.563 <sup>179</sup>	42.24 <sup>12</sup>	23.017 <sup>314</sup>	63.56 <sup>18</sup>	52.76 <sup>59</sup>	68.49 <sup>9</sup>
19.2	19.863 <sup>224</sup>	37.40 <sup>72</sup>	22.384 <sup>160</sup>	42.36 <sup>7</sup>	22.703 <sup>287</sup>	63.38 <sup>54</sup>	52.17 <sup>57</sup>	68.40 <sup>61</sup>
29.2	19.639 <sup>199</sup>	36.68 <sup>115</sup>	22.224 <sup>134</sup>	42.43 <sup>1</sup>	22.416 <sup>248</sup>	62.84 <sup>89</sup>	51.60 <sup>53</sup>	67.79 <sup>113</sup>
Mai 9.2	19.440 <sup>167</sup>	35.53 <sup>153</sup>	22.090 <sup>103</sup>	42.44 <sup>4</sup>	22.168 <sup>197</sup>	61.95 <sup>120</sup>	51.07 <sup>48</sup>	66.66 <sup>160</sup>
19.1	19.273 <sup>130</sup>	34.00 <sup>188</sup>	21.987 <sup>65</sup>	42.40 <sup>7</sup>	21.971 <sup>140</sup>	60.75 <sup>146</sup>	50.59 <sup>41</sup>	65.06 <sup>204</sup>
29.1	19.143 <sup>90</sup>	32.12 <sup>218</sup>	21.922 <sup>27</sup>	42.33 <sup>10</sup>	21.831 <sup>78</sup>	59.29 <sup>168</sup>	50.18 <sup>33</sup>	63.02 <sup>243</sup>
Juni 8.1	19.053 <sup>48</sup>	29.94 <sup>244</sup>	21.895 <sup>12</sup>	42.23 <sup>12</sup>	21.753 <sup>14</sup>	57.61 <sup>184</sup>	49.85 <sup>25</sup>	60.59 <sup>275</sup>
18.1	19.005 <sup>5</sup>	27.50 <sup>261</sup>	21.907 <sup>52</sup>	42.11 <sup>13</sup>	21.739 <sup>51</sup>	55.77 <sup>194</sup>	49.60 <sup>16</sup>	57.84 <sup>300</sup>
28.0	19.000 <sup>39</sup>	24.89 <sup>273</sup>	21.959 <sup>89</sup>	41.98 <sup>14</sup>	21.790 <sup>114</sup>	53.83 <sup>201</sup>	49.44 <sup>7</sup>	54.84 <sup>316</sup>
Juli 8.0	19.039 <sup>82</sup>	22.16 <sup>276</sup>	22.048 <sup>125</sup>	41.84 <sup>16</sup>	21.904 <sup>174</sup>	51.82 <sup>202</sup>	49.37 <sup>2</sup>	51.68 <sup>324</sup>
18.0	19.121 <sup>123</sup>	19.40 <sup>271</sup>	22.173 <sup>158</sup>	41.68 <sup>18</sup>	22.078 <sup>230</sup>	49.80 <sup>199</sup>	49.39 <sup>13</sup>	48.44 <sup>323</sup>
28.0	19.244 <sup>162</sup>	16.69 <sup>256</sup>	22.331 <sup>187</sup>	41.50 <sup>21</sup>	22.308 <sup>281</sup>	47.81 <sup>192</sup>	49.52 <sup>22</sup>	45.21 <sup>310</sup>
Aug. 6.9	19.406 <sup>198</sup>	14.13 <sup>234</sup>	22.518 <sup>213</sup>	41.29 <sup>26</sup>	22.589 <sup>328</sup>	45.89 <sup>182</sup>	49.74 <sup>30</sup>	42.11 <sup>287</sup>
16.9	19.604 <sup>232</sup>	11.79 <sup>202</sup>	22.731 <sup>238</sup>	41.03 <sup>32</sup>	22.917 <sup>369</sup>	44.07 <sup>169</sup>	50.04 <sup>39</sup>	39.24 <sup>254</sup>
26.9	19.836 <sup>261</sup>	9.77 <sup>162</sup>	22.969 <sup>259</sup>	40.71 <sup>39</sup>	23.286 <sup>405</sup>	42.38 <sup>154</sup>	50.43 <sup>46</sup>	36.70 <sup>212</sup>
Sept. 5.8	20.097 <sup>286</sup>	8.15 <sup>115</sup>	23.228 <sup>276</sup>	40.32 <sup>48</sup>	23.691 <sup>435</sup>	40.84 <sup>135</sup>	50.89 <sup>53</sup>	34.58 <sup>161</sup>
15.8	20.383 <sup>307</sup>	7.00 <sup>62</sup>	23.504 <sup>292</sup>	39.84 <sup>56</sup>	24.126 <sup>460</sup>	39.49 <sup>114</sup>	51.42 <sup>57</sup>	32.97 <sup>103</sup>
25.8	20.690 <sup>323</sup>	6.38 <sup>6</sup>	23.796 <sup>305</sup>	39.28 <sup>64</sup>	24.586 <sup>480</sup>	38.35 <sup>91</sup>	51.99 <sup>61</sup>	31.94 <sup>40</sup>
Okt. 5.8	21.013 <sup>331</sup>	6.32 <sup>52</sup>	24.101 <sup>313</sup>	38.64 <sup>72</sup>	25.066 <sup>492</sup>	37.44 <sup>66</sup>	52.60 <sup>63</sup>	31.54 <sup>27</sup>
15.7	21.344 <sup>334</sup>	6.84 <sup>110</sup>	24.414 <sup>318</sup>	37.92 <sup>78</sup>	25.558 <sup>497</sup>	36.78 <sup>37</sup>	53.23 <sup>62</sup>	31.81 <sup>93</sup>
25.7	21.678 <sup>328</sup>	7.94 <sup>165</sup>	24.732 <sup>318</sup>	37.14 <sup>81</sup>	26.055 <sup>494</sup>	36.41 <sup>8</sup>	53.85 <sup>60</sup>	32.74 <sup>157</sup>
Nov. 4.7	22.006 <sup>314</sup>	9.59 <sup>215</sup>	25.050 <sup>312</sup>	36.33 <sup>80</sup>	26.549 <sup>480</sup>	36.33 <sup>24</sup>	54.45 <sup>56</sup>	34.31 <sup>218</sup>
14.7	22.320 <sup>291</sup>	11.74 <sup>258</sup>	25.362 <sup>297</sup>	35.53 <sup>76</sup>	27.029 <sup>455</sup>	36.57 <sup>55</sup>	55.01 <sup>49</sup>	36.49 <sup>271</sup>
24.6	22.611 <sup>259</sup>	14.32 <sup>292</sup>	25.659 <sup>276</sup>	34.77 <sup>69</sup>	27.484 <sup>418</sup>	37.12 <sup>88</sup>	55.50 <sup>42</sup>	39.20 <sup>314</sup>
Dez. 4.6	22.870 <sup>220</sup>	17.24 <sup>316</sup>	25.935 <sup>246</sup>	34.08 <sup>58</sup>	27.902 <sup>369</sup>	38.00 <sup>117</sup>	55.92 <sup>32</sup>	42.34 <sup>347</sup>
14.6	23.090 <sup>172</sup>	20.40 <sup>329</sup>	26.181 <sup>208</sup>	33.50 <sup>45</sup>	28.271 <sup>308</sup>	39.17 <sup>145</sup>	56.24 <sup>22</sup>	45.81 <sup>370</sup>
24.5	23.262 <sup>119</sup>	23.69 <sup>333</sup>	26.389 <sup>163</sup>	33.05 <sup>30</sup>	28.579 <sup>236</sup>	40.62 <sup>167</sup>	56.46 <sup>10</sup>	49.51 <sup>379</sup>
34.5	23.381	27.02	26.552	32.75	28.815	42.29	56.56	53.30
Mittl. Ort sec $\delta$ , tg $\delta$	18.995 1.251	11.36 -0.752	20.829 1.080	51.05 +0.407	20.765 1.763	61.18 +1.451	52.57 2.648	39.13 -2.452

Mittlere Zeit Greenw.	282) $\iota$ Geminorum		284) Gr. 1308		285) $\beta$ Canis min.		286) $\rho$ Geminorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	7 <sup>h</sup> 20 <sup>m</sup>	+27° 57'	7 <sup>h</sup> 22 <sup>m</sup>	+68° 37'	7 <sup>h</sup> 22 <sup>m</sup>	+8° 26'	7 <sup>h</sup> 23 <sup>m</sup>	+31° 56'
Jan. 0.5	48.124 <sup>146</sup>	19.04 <sup>12</sup>	39.23 <sup>27</sup>	39.40 <sup>238</sup>	51.052 <sup>130</sup>	55.96 <sup>111</sup>	60.670 <sup>155</sup>	30.41 <sup>37</sup>
10.5	48.270 <sup>92</sup>	19.16 <sup>27</sup>	39.50 <sup>14</sup>	41.78 <sup>250</sup>	51.182 <sup>81</sup>	54.85 <sup>95</sup>	60.825 <sup>98</sup>	30.78 <sup>51</sup>
20.5	48.362 <sup>34</sup>	19.43 <sup>40</sup>	39.64 <sup>1</sup>	44.28 <sup>253</sup>	51.263 <sup>30</sup>	53.90 <sup>78</sup>	60.923 <sup>39</sup>	31.29 <sup>64</sup>
30.4	48.396 <sup>21</sup>	19.83 <sup>48</sup>	39.65 <sup>12</sup>	46.81 <sup>245</sup>	51.293 <sup>21</sup>	53.12 <sup>62</sup>	60.962 <sup>19</sup>	31.93 <sup>72</sup>
Feb. 9.4	48.375 <sup>74</sup>	20.31 <sup>53</sup>	39.53 <sup>23</sup>	49.26 <sup>226</sup>	51.272 <sup>66</sup>	52.50 <sup>45</sup>	60.943 <sup>73</sup>	32.65 <sup>75</sup>
19.4	48.301 <sup>118</sup>	20.84 <sup>55</sup>	39.30 <sup>34</sup>	51.52 <sup>199</sup>	51.206 <sup>107</sup>	52.05 <sup>30</sup>	60.870 <sup>121</sup>	33.40 <sup>73</sup>
29.4	48.183 <sup>155</sup>	21.39 <sup>51</sup>	38.96 <sup>42</sup>	53.51 <sup>164</sup>	51.099 <sup>138</sup>	51.75 <sup>17</sup>	60.749 <sup>159</sup>	34.13 <sup>67</sup>
März 10.3	48.028 <sup>181</sup>	21.90 <sup>44</sup>	38.54 <sup>48</sup>	55.15 <sup>121</sup>	50.961 <sup>162</sup>	51.58 <sup>5</sup>	60.590 <sup>187</sup>	34.80 <sup>56</sup>
20.3	47.847 <sup>195</sup>	22.34 <sup>34</sup>	38.06 <sup>52</sup>	56.36 <sup>75</sup>	50.799 <sup>174</sup>	51.53 <sup>5</sup>	60.403 <sup>202</sup>	35.36 <sup>42</sup>
30.3	47.652 <sup>197</sup>	22.68 <sup>23</sup>	37.54 <sup>53</sup>	57.11 <sup>26</sup>	50.625 <sup>176</sup>	51.58 <sup>15</sup>	60.201 <sup>205</sup>	35.78 <sup>27</sup>
Apr. 9.3	47.455 <sup>189</sup>	22.91 <sup>11</sup>	37.01 <sup>52</sup>	57.37 <sup>23</sup>	50.449 <sup>169</sup>	51.73 <sup>22</sup>	59.996 <sup>198</sup>	36.05 <sup>11</sup>
19.2	47.266 <sup>171</sup>	23.02 <sup>1</sup>	36.49 <sup>48</sup>	57.14 <sup>71</sup>	50.280 <sup>153</sup>	51.95 <sup>29</sup>	59.798 <sup>180</sup>	36.16 <sup>5</sup>
29.2	47.095 <sup>145</sup>	23.01 <sup>13</sup>	36.01 <sup>43</sup>	56.43 <sup>115</sup>	50.127 <sup>129</sup>	52.24 <sup>36</sup>	59.618 <sup>152</sup>	36.11 <sup>21</sup>
Mai 9.2	46.950 <sup>111</sup>	22.88 <sup>22</sup>	35.58 <sup>36</sup>	55.28 <sup>155</sup>	49.998 <sup>101</sup>	52.60 <sup>43</sup>	59.466 <sup>119</sup>	35.90 <sup>34</sup>
19.1	46.839 <sup>74</sup>	22.66 <sup>31</sup>	35.22 <sup>27</sup>	53.73 <sup>190</sup>	49.897 <sup>69</sup>	53.03 <sup>49</sup>	59.347 <sup>81</sup>	35.56 <sup>46</sup>
29.1	46.765 <sup>35</sup>	22.35 <sup>38</sup>	34.95 <sup>18</sup>	51.83 <sup>217</sup>	49.828 <sup>33</sup>	53.52 <sup>55</sup>	59.266 <sup>39</sup>	35.10 <sup>56</sup>
Juni 8.1	46.730 <sup>7</sup>	21.97 <sup>43</sup>	34.77 <sup>8</sup>	49.66 <sup>238</sup>	49.795 <sup>3</sup>	54.07 <sup>59</sup>	59.227 <sup>3</sup>	34.54 <sup>63</sup>
18.1	46.737 <sup>48</sup>	21.54 <sup>47</sup>	34.69 <sup>2</sup>	47.28 <sup>254</sup>	49.798 <sup>39</sup>	54.66 <sup>63</sup>	59.230 <sup>46</sup>	33.91 <sup>69</sup>
28.0	46.785 <sup>87</sup>	21.07 <sup>50</sup>	34.71 <sup>12</sup>	44.74 <sup>261</sup>	49.837 <sup>73</sup>	55.29 <sup>63</sup>	59.276 <sup>87</sup>	33.22 <sup>72</sup>
Juli 8.0	46.872 <sup>125</sup>	20.57 <sup>52</sup>	34.83 <sup>21</sup>	42.13 <sup>264</sup>	49.910 <sup>107</sup>	55.92 <sup>62</sup>	59.363 <sup>126</sup>	32.50 <sup>76</sup>
18.0	46.997 <sup>159</sup>	20.05 <sup>53</sup>	35.04 <sup>31</sup>	39.49 <sup>259</sup>	50.017 <sup>137</sup>	56.54 <sup>59</sup>	59.489 <sup>161</sup>	31.74 <sup>77</sup>
28.0	47.156 <sup>190</sup>	19.52 <sup>56</sup>	35.35 <sup>39</sup>	36.90 <sup>251</sup>	50.154 <sup>166</sup>	57.13 <sup>51</sup>	59.650 <sup>195</sup>	30.97 <sup>78</sup>
Aug. 6.9	47.346 <sup>219</sup>	18.96 <sup>59</sup>	35.74 <sup>47</sup>	34.39 <sup>235</sup>	50.320 <sup>190</sup>	57.64 <sup>41</sup>	59.845 <sup>225</sup>	30.19 <sup>80</sup>
16.9	47.565 <sup>245</sup>	18.37 <sup>61</sup>	36.21 <sup>53</sup>	32.04 <sup>218</sup>	50.510 <sup>215</sup>	58.05 <sup>27</sup>	60.070 <sup>251</sup>	29.39 <sup>81</sup>
26.9	47.810 <sup>267</sup>	17.76 <sup>65</sup>	36.74 <sup>59</sup>	29.86 <sup>194</sup>	50.725 <sup>235</sup>	58.32 <sup>10</sup>	60.321 <sup>275</sup>	28.58 <sup>81</sup>
Sept. 5.8	48.077 <sup>286</sup>	17.11 <sup>69</sup>	37.33 <sup>65</sup>	27.92 <sup>168</sup>	50.960 <sup>254</sup>	58.42 <sup>9</sup>	60.596 <sup>297</sup>	27.77 <sup>83</sup>
15.8	48.363 <sup>304</sup>	16.42 <sup>72</sup>	37.98 <sup>69</sup>	26.24 <sup>137</sup>	51.214 <sup>269</sup>	58.33 <sup>30</sup>	60.893 <sup>314</sup>	26.94 <sup>82</sup>
25.8	48.667 <sup>317</sup>	15.70 <sup>75</sup>	38.67 <sup>71</sup>	24.87 <sup>105</sup>	51.483 <sup>282</sup>	58.03 <sup>52</sup>	61.207 <sup>328</sup>	26.12 <sup>81</sup>
Okt. 5.8	48.984 <sup>327</sup>	14.95 <sup>77</sup>	39.38 <sup>74</sup>	23.82 <sup>68</sup>	51.765 <sup>292</sup>	57.51 <sup>74</sup>	61.535 <sup>340</sup>	25.31 <sup>79</sup>
15.7	49.311 <sup>333</sup>	14.18 <sup>76</sup>	40.12 <sup>75</sup>	23.14 <sup>29</sup>	52.057 <sup>298</sup>	56.77 <sup>94</sup>	61.875 <sup>347</sup>	24.52 <sup>74</sup>
25.7	49.644 <sup>333</sup>	13.42 <sup>73</sup>	40.87 <sup>74</sup>	22.85 <sup>10</sup>	52.355 <sup>298</sup>	55.83 <sup>111</sup>	62.222 <sup>347</sup>	23.78 <sup>67</sup>
Nov. 4.7	49.977 <sup>328</sup>	12.69 <sup>66</sup>	41.61 <sup>72</sup>	22.95 <sup>52</sup>	52.653 <sup>293</sup>	54.72 <sup>124</sup>	62.569 <sup>341</sup>	23.11 <sup>56</sup>
14.7	50.305 <sup>314</sup>	12.03 <sup>57</sup>	42.33 <sup>67</sup>	23.47 <sup>94</sup>	52.946 <sup>281</sup>	53.48 <sup>133</sup>	62.910 <sup>328</sup>	22.55 <sup>43</sup>
24.6	50.619 <sup>292</sup>	11.46 <sup>44</sup>	43.00 <sup>62</sup>	24.41 <sup>133</sup>	53.227 <sup>261</sup>	52.15 <sup>137</sup>	63.238 <sup>305</sup>	22.12 <sup>27</sup>
Dez. 4.6	50.911 <sup>261</sup>	11.02 <sup>30</sup>	43.62 <sup>55</sup>	25.74 <sup>170</sup>	53.488 <sup>234</sup>	50.78 <sup>134</sup>	63.543 <sup>275</sup>	21.85 <sup>9</sup>
14.6	51.172 <sup>223</sup>	10.72 <sup>13</sup>	44.17 <sup>44</sup>	27.44 <sup>203</sup>	53.722 <sup>198</sup>	49.44 <sup>128</sup>	63.818 <sup>234</sup>	21.76 <sup>9</sup>
24.5	51.395 <sup>176</sup>	10.59 <sup>4</sup>	44.61 <sup>34</sup>	29.47 <sup>228</sup>	53.920 <sup>156</sup>	48.16 <sup>117</sup>	64.052 <sup>185</sup>	21.85 <sup>28</sup>
34.5	51.571	10.63	44.95	31.75	54.076	46.99	64.237	22.13
Mittl. Ort sec $\delta$ , tg $\delta$	45.634 1.132	29.84 +0.531	34.18 2.744	51.59 +2.556	48.808 1.011	65.63 +0.149	58.108 1.178	41.61 +0.624

Mittlere Zeit Greenwich.	287) $\alpha$ Geminorum <sup>1)</sup>		289) 25 Monocerotis		291) $\alpha$ Canis min. <sup>2)</sup>		292) 24 Lyncis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	7 <sup>h</sup> 29 <sup>m</sup>	+32° 3'	7 <sup>h</sup> 33 <sup>m</sup>	-3° 55'	7 <sup>h</sup> 35 <sup>m</sup>	+5° 25'	7 <sup>h</sup> 36 <sup>m</sup>	+58° 53'
Jan. 0.5	32.334 <sub>160</sub>	44.42 <sub>34</sub>	20.247 <sub>130</sub>	61.93 <sub>187</sub>	9.070 <sub>135</sub>	42.27 <sub>135</sub>	18.519 <sub>237</sub>	43.44 <sub>186</sub>
10.5	32.494 <sub>104</sub>	44.76 <sub>51</sub>	20.377 <sub>82</sub>	63.80 <sub>172</sub>	9.205 <sub>86</sub>	40.92 <sub>118</sub>	18.756 <sub>146</sub>	45.30 <sub>203</sub>
20.5	32.598 <sub>45</sub>	45.27 <sub>64</sub>	20.459 <sub>32</sub>	65.52 <sub>153</sub>	9.291 <sub>35</sub>	39.74 <sub>100</sub>	18.902 <sub>53</sub>	47.33 <sub>211</sub>
30.5	32.643 <sub>14</sub>	45.91 <sub>72</sub>	20.491 <sub>17</sub>	67.05 <sub>131</sub>	9.326 <sub>15</sub>	38.74 <sub>82</sub>	18.955 <sub>39</sub>	49.44 <sub>210</sub>
Feb. 9.4	32.629 <sub>69</sub>	46.63 <sub>77</sub>	20.474 <sub>63</sub>	68.36 <sub>109</sub>	9.311 <sub>61</sub>	37.92 <sub>62</sub>	18.916 <sub>127</sub>	51.54 <sub>201</sub>
19.4	32.560 <sub>117</sub>	47.40 <sub>75</sub>	20.411 <sub>104</sub>	69.45 <sub>86</sub>	9.250 <sub>102</sub>	37.30 <sub>45</sub>	18.789 <sub>204</sub>	53.55 <sub>182</sub>
29.4	32.443 <sub>156</sub>	48.15 <sub>69</sub>	20.307 <sub>136</sub>	70.31 <sub>63</sub>	9.148 <sub>134</sub>	36.85 <sub>29</sub>	18.585 <sub>269</sub>	55.37 <sub>155</sub>
März 10.3	32.287 <sub>185</sub>	48.84 <sub>58</sub>	20.171 <sub>159</sub>	70.94 <sub>40</sub>	9.014 <sub>158</sub>	36.56 <sub>13</sub>	18.316 <sub>317</sub>	56.92 <sub>123</sub>
20.3	32.102 <sub>201</sub>	49.42 <sub>46</sub>	20.012 <sub>172</sub>	71.34 <sub>18</sub>	8.856 <sub>172</sub>	36.43 <sub>0</sub>	17.999 <sub>348</sub>	58.15 <sub>84</sub>
30.3	31.901 <sub>207</sub>	49.88 <sub>30</sub>	19.840 <sub>177</sub>	71.52 <sub>3</sub>	8.684 <sub>176</sub>	36.43 <sub>11</sub>	17.651 <sub>359</sub>	58.99 <sub>44</sub>
Apr. 9.3	31.694 <sub>198</sub>	50.18 <sub>14</sub>	19.663 <sub>171</sub>	71.49 <sub>23</sub>	8.508 <sub>169</sub>	36.54 <sub>23</sub>	17.292 <sub>354</sub>	59.43 <sub>2</sub>
19.2	31.496 <sub>182</sub>	50.32 <sub>3</sub>	19.492 <sub>158</sub>	71.26 <sub>42</sub>	8.339 <sub>155</sub>	36.77 <sub>32</sub>	16.938 <sub>331</sub>	59.45 <sub>39</sub>
29.2	31.314 <sub>156</sub>	50.29 <sub>18</sub>	19.334 <sub>137</sub>	70.84 <sub>60</sub>	8.184 <sub>134</sub>	37.09 <sub>42</sub>	16.607 <sub>294</sub>	59.06 <sub>78</sub>
Mai 9.2	31.158 <sub>124</sub>	50.11 <sub>33</sub>	19.197 <sub>110</sub>	70.24 <sub>77</sub>	8.050 <sub>106</sub>	37.51 <sub>49</sub>	16.313 <sub>245</sub>	58.28 <sub>114</sub>
19.2	31.034 <sub>85</sub>	49.78 <sub>45</sub>	19.087 <sub>80</sub>	69.47 <sub>91</sub>	7.944 <sub>75</sub>	38.00 <sub>58</sub>	16.068 <sub>188</sub>	57.14 <sub>145</sub>
29.1	30.949 <sub>45</sub>	49.33 <sub>56</sub>	19.007 <sub>47</sub>	68.56 <sub>106</sub>	7.869 <sub>41</sub>	38.58 <sub>65</sub>	15.880 <sub>124</sub>	55.69 <sub>172</sub>
Juni 8.1	30.904 <sub>4</sub>	48.77 <sub>64</sub>	18.960 <sub>12</sub>	67.50 <sub>116</sub>	7.828 <sub>6</sub>	39.23 <sub>69</sub>	15.756 <sub>55</sub>	53.97 <sub>193</sub>
18.1	30.900 <sub>40</sub>	48.13 <sub>70</sub>	18.948 <sub>21</sub>	66.34 <sub>124</sub>	7.822 <sub>30</sub>	39.92 <sub>74</sub>	15.701 <sub>13</sub>	52.04 <sub>209</sub>
28.0	30.940 <sub>80</sub>	47.43 <sub>75</sub>	18.969 <sub>56</sub>	65.10 <sub>129</sub>	7.852 <sub>63</sub>	40.66 <sub>74</sub>	15.714 <sub>81</sub>	49.95 <sub>219</sub>
Juli 8.0	31.020 <sub>119</sub>	46.68 <sub>78</sub>	19.025 <sub>88</sub>	63.81 <sub>128</sub>	7.915 <sub>96</sub>	41.40 <sub>74</sub>	15.795 <sub>147</sub>	47.76 <sub>224</sub>
18.0	31.139 <sub>155</sub>	45.90 <sub>81</sub>	19.113 <sub>119</sub>	62.53 <sub>125</sub>	8.011 <sub>126</sub>	42.14 <sub>69</sub>	15.942 <sub>211</sub>	45.52 <sub>225</sub>
28.0	31.294 <sub>189</sub>	45.09 <sub>83</sub>	19.232 <sub>148</sub>	61.28 <sub>115</sub>	8.137 <sub>154</sub>	42.83 <sub>60</sub>	16.153 <sub>268</sub>	43.27 <sub>220</sub>
Aug. 6.9	31.483 <sub>219</sub>	44.26 <sub>84</sub>	19.380 <sub>174</sub>	60.13 <sub>101</sub>	8.291 <sub>181</sub>	43.43 <sub>49</sub>	16.421 <sub>323</sub>	41.07 <sub>212</sub>
16.9	31.702 <sub>246</sub>	43.42 <sub>86</sub>	19.554 <sub>200</sub>	59.12 <sub>82</sub>	8.472 <sub>204</sub>	43.92 <sub>34</sub>	16.744 <sub>371</sub>	38.95 <sub>201</sub>
26.9	31.948 <sub>270</sub>	42.56 <sub>87</sub>	19.754 <sub>221</sub>	58.30 <sub>58</sub>	8.676 <sub>226</sub>	44.26 <sub>14</sub>	17.115 <sub>414</sub>	36.94 <sub>185</sub>
Sept. 5.9	32.218 <sub>292</sub>	41.69 <sub>88</sub>	19.975 <sub>241</sub>	57.72 <sub>29</sub>	8.902 <sub>246</sub>	44.40 <sub>7</sub>	17.529 <sub>453</sub>	35.09 <sub>167</sub>
15.8	32.510 <sub>311</sub>	40.81 <sub>88</sub>	20.216 <sub>259</sub>	57.43 <sub>2</sub>	9.148 <sub>262</sub>	44.33 <sub>31</sub>	17.982 <sub>484</sub>	33.42 <sub>144</sub>
25.8	32.821 <sub>327</sub>	39.93 <sub>87</sub>	20.475 <sub>274</sub>	57.45 <sub>35</sub>	9.410 <sub>276</sub>	44.02 <sub>55</sub>	18.466 <sub>511</sub>	31.98 <sub>120</sub>
Okt. 5.8	33.148 <sub>339</sub>	39.06 <sub>85</sub>	20.749 <sub>285</sub>	57.80 <sub>68</sub>	9.686 <sub>288</sub>	43.47 <sub>80</sub>	18.977 <sub>530</sub>	30.78 <sub>93</sub>
15.7	33.487 <sub>346</sub>	38.21 <sub>79</sub>	21.034 <sub>292</sub>	58.48 <sub>101</sub>	9.974 <sub>294</sub>	42.67 <sub>103</sub>	19.507 <sub>541</sub>	29.85 <sub>61</sub>
25.7	33.833 <sub>348</sub>	37.42 <sub>72</sub>	21.326 <sub>294</sub>	59.49 <sub>130</sub>	10.268 <sub>296</sub>	41.64 <sub>123</sub>	20.048 <sub>542</sub>	29.24 <sub>28</sub>
Nov. 4.7	34.181 <sub>343</sub>	36.70 <sub>62</sub>	21.620 <sub>289</sub>	60.79 <sub>157</sub>	10.564 <sub>293</sub>	40.41 <sub>139</sub>	20.590 <sub>532</sub>	28.96 <sub>7</sub>
14.7	34.524 <sub>330</sub>	36.08 <sub>48</sub>	21.909 <sub>278</sub>	62.36 <sub>176</sub>	10.857 <sub>281</sub>	39.02 <sub>151</sub>	21.122 <sub>511</sub>	29.03 <sub>43</sub>
24.6	34.854 <sub>309</sub>	35.60 <sub>31</sub>	22.187 <sub>260</sub>	64.12 <sub>190</sub>	11.138 <sub>263</sub>	37.51 <sub>157</sub>	21.633 <sub>474</sub>	29.46 <sub>80</sub>
Dez. 4.6	35.163 <sub>279</sub>	35.29 <sub>13</sub>	22.447 <sub>232</sub>	66.02 <sub>197</sub>	11.401 <sub>236</sub>	35.94 <sub>156</sub>	22.107 <sub>424</sub>	30.26 <sub>115</sub>
14.6	35.442 <sub>239</sub>	35.16 <sub>6</sub>	22.679 <sub>198</sub>	67.99 <sub>197</sub>	11.637 <sub>202</sub>	34.38 <sub>151</sub>	22.531 <sub>362</sub>	31.41 <sub>147</sub>
24.6	35.681 <sub>191</sub>	35.22 <sub>25</sub>	22.877 <sub>157</sub>	69.96 <sub>191</sub>	11.839 <sub>160</sub>	32.87 <sub>141</sub>	22.893 <sub>285</sub>	32.88 <sub>174</sub>
34.5	35.872	35.47	23.034	71.87	11.999	31.46	23.178	34.62
Mittl. Ort	29.785	-55.94	18.072	53.11	6.861	52.07	14.818	56.70
sec $\delta$ , tg $\delta$	1.180	+0.626	1.002	-0.069	1.005	+0.095	1.936	+1.658

<sup>1)</sup> AR. der Mitte; Dekl. des folgenden helleren Sterns

<sup>2)</sup> 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.
1920	7 <sup>h</sup> 39 <sup>m</sup>	+24° 35'	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° 24'
Jan. 0.5	39.618 <sup>162</sup>	15.96 <sup>16</sup>	27.836 <sup>166</sup>	62.14 <sup>6</sup>	23.663 <sup>178</sup>	35.19 <sup>38</sup>	53.32 <sup>10</sup>	53.64 <sup>383</sup>
10.5	39.780 <sup>109</sup>	15.80 <sup>2</sup>	28.002 <sup>112</sup>	62.20 <sup>24</sup>	23.841 <sup>120</sup>	35.57 <sup>58</sup>	53.42 <sup>4</sup>	57.47 <sup>382</sup>
20.5	39.889	15.82 <sup>18</sup>	28.114 <sup>55</sup>	62.44 <sup>40</sup>	23.961 <sup>60</sup>	36.15 <sup>72</sup>	53.38 <sup>18</sup>	61.29 <sup>370</sup>
30.5	39.943 <sup>2</sup>	16.00 <sup>31</sup>	28.169 <sup>3</sup>	62.84 <sup>51</sup>	24.021 <sup>1</sup>	36.87 <sup>83</sup>	53.20 <sup>31</sup>	64.99 <sup>348</sup>
Feb. 9.4	39.941 <sup>53</sup>	16.31 <sup>39</sup>	28.166 <sup>56</sup>	63.35 <sup>59</sup>	24.020 <sup>57</sup>	37.70 <sup>87</sup>	52.89 <sup>43</sup>	68.47 <sup>318</sup>
19.4	39.888 <sup>100</sup>	16.70 <sup>45</sup>	28.110 <sup>104</sup>	63.94 <sup>62</sup>	23.963 <sup>108</sup>	38.57 <sup>87</sup>	52.46 <sup>54</sup>	71.65 <sup>282</sup>
29.4	39.788 <sup>138</sup>	17.15 <sup>46</sup>	28.006 <sup>143</sup>	64.56 <sup>61</sup>	23.855 <sup>149</sup>	39.44 <sup>82</sup>	51.92 <sup>62</sup>	74.47 <sup>239</sup>
März 10.4	39.650 <sup>166</sup>	17.61 <sup>45</sup>	27.863 <sup>172</sup>	65.17 <sup>55</sup>	23.706 <sup>181</sup>	40.26 <sup>71</sup>	51.30 <sup>68</sup>	76.86 <sup>191</sup>
20.3	39.484 <sup>183</sup>	18.06 <sup>39</sup>	27.691 <sup>190</sup>	65.72 <sup>46</sup>	23.525 <sup>200</sup>	40.97 <sup>56</sup>	50.62 <sup>73</sup>	78.77 <sup>141</sup>
30.3	39.301 <sup>188</sup>	18.45 <sup>31</sup>	27.501 <sup>196</sup>	66.18 <sup>35</sup>	23.325 <sup>208</sup>	41.53 <sup>41</sup>	49.89 <sup>75</sup>	80.18 <sup>89</sup>
Apr. 9.3	39.113 <sup>184</sup>	18.76 <sup>23</sup>	27.305 <sup>192</sup>	66.53 <sup>22</sup>	23.117 <sup>203</sup>	41.94 <sup>22</sup>	49.14 <sup>75</sup>	81.07 <sup>35</sup>
19.2	38.929 <sup>169</sup>	18.99 <sup>13</sup>	27.113 <sup>177</sup>	66.75 <sup>9</sup>	22.914 <sup>188</sup>	42.16 <sup>3</sup>	48.39 <sup>74</sup>	81.42 <sup>18</sup>
29.2	38.760 <sup>147</sup>	19.12 <sup>4</sup>	26.936 <sup>154</sup>	66.84 <sup>3</sup>	22.726 <sup>165</sup>	42.19 <sup>14</sup>	47.65 <sup>69</sup>	81.24 <sup>71</sup>
Mai 9.2	38.613 <sup>118</sup>	19.16 <sup>4</sup>	26.782 <sup>124</sup>	66.81 <sup>16</sup>	22.561 <sup>134</sup>	42.05 <sup>31</sup>	46.96 <sup>65</sup>	80.53 <sup>121</sup>
19.2	38.495 <sup>84</sup>	19.12 <sup>12</sup>	26.658 <sup>90</sup>	66.65 <sup>26</sup>	22.427 <sup>97</sup>	41.74 <sup>46</sup>	46.31 <sup>58</sup>	79.32 <sup>169</sup>
29.1	38.411 <sup>48</sup>	19.00 <sup>19</sup>	26.568 <sup>52</sup>	66.39 <sup>35</sup>	22.330 <sup>57</sup>	41.28 <sup>59</sup>	45.73 <sup>49</sup>	77.63 <sup>212</sup>
Juni 8.1	38.363 <sup>9</sup>	18.81 <sup>24</sup>	26.516 <sup>13</sup>	66.04 <sup>42</sup>	22.273 <sup>16</sup>	40.69 <sup>70</sup>	45.24 <sup>40</sup>	75.51 <sup>249</sup>
18.1	38.354 <sup>29</sup>	18.57 <sup>29</sup>	26.503 <sup>28</sup>	65.62 <sup>49</sup>	22.257 <sup>25</sup>	39.99 <sup>78</sup>	44.84 <sup>30</sup>	73.02 <sup>279</sup>
28.1	38.383 <sup>66</sup>	18.28 <sup>33</sup>	26.531 <sup>65</sup>	65.13 <sup>54</sup>	22.282 <sup>67</sup>	39.21 <sup>85</sup>	44.54 <sup>18</sup>	70.23 <sup>303</sup>
Juli 8.0	38.449 <sup>102</sup>	17.95 <sup>37</sup>	26.596 <sup>103</sup>	64.59 <sup>59</sup>	22.349 <sup>106</sup>	38.36 <sup>91</sup>	44.36 <sup>7</sup>	67.20 <sup>316</sup>
18.0	38.551 <sup>136</sup>	17.58 <sup>41</sup>	26.699 <sup>138</sup>	64.00 <sup>62</sup>	22.455 <sup>143</sup>	37.45 <sup>94</sup>	44.29 <sup>5</sup>	64.04 <sup>322</sup>
28.0	38.687 <sup>167</sup>	17.17 <sup>45</sup>	26.837 <sup>170</sup>	63.38 <sup>66</sup>	22.598 <sup>178</sup>	36.51 <sup>97</sup>	44.34 <sup>17</sup>	60.82 <sup>316</sup>
Aug. 6.9	38.854 <sup>195</sup>	16.72 <sup>51</sup>	27.007 <sup>199</sup>	62.72 <sup>70</sup>	22.776 <sup>210</sup>	35.54 <sup>99</sup>	44.51 <sup>30</sup>	57.66 <sup>300</sup>
16.9	39.049 <sup>222</sup>	16.21 <sup>57</sup>	27.206 <sup>227</sup>	62.02 <sup>75</sup>	22.986 <sup>238</sup>	34.55 <sup>102</sup>	44.81 <sup>40</sup>	54.66 <sup>274</sup>
26.9	39.271 <sup>246</sup>	15.64 <sup>63</sup>	27.433 <sup>251</sup>	61.27 <sup>79</sup>	23.224 <sup>265</sup>	33.53 <sup>102</sup>	45.21 <sup>51</sup>	51.92 <sup>236</sup>
Sept. 5.9	39.517 <sup>267</sup>	15.01 <sup>71</sup>	27.684 <sup>274</sup>	60.48 <sup>84</sup>	23.489 <sup>288</sup>	32.51 <sup>103</sup>	45.72 <sup>60</sup>	49.56 <sup>191</sup>
15.8	39.784 <sup>286</sup>	14.30 <sup>79</sup>	27.958 <sup>293</sup>	59.64 <sup>88</sup>	23.777 <sup>309</sup>	31.48 <sup>103</sup>	46.32 <sup>67</sup>	47.65 <sup>137</sup>
25.8	40.070 <sup>302</sup>	13.51 <sup>85</sup>	28.251 <sup>310</sup>	58.76 <sup>91</sup>	24.086 <sup>327</sup>	30.45 <sup>100</sup>	46.99 <sup>73</sup>	46.28 <sup>77</sup>
Okt. 5.8	40.372 <sup>316</sup>	12.66 <sup>90</sup>	28.561 <sup>323</sup>	57.85 <sup>93</sup>	24.413 <sup>342</sup>	29.45 <sup>97</sup>	47.72 <sup>76</sup>	45.51 <sup>12</sup>
15.8	40.688 <sup>324</sup>	11.76 <sup>93</sup>	28.884 <sup>333</sup>	56.92 <sup>92</sup>	24.755 <sup>353</sup>	28.48 <sup>90</sup>	48.48 <sup>78</sup>	45.39 <sup>55</sup>
25.7	41.012 <sup>329</sup>	10.83 <sup>94</sup>	29.217 <sup>337</sup>	56.00 <sup>89</sup>	25.108 <sup>355</sup>	27.58 <sup>82</sup>	49.26 <sup>75</sup>	45.94 <sup>121</sup>
Nov. 4.7	41.341 <sup>325</sup>	9.89 <sup>91</sup>	29.554 <sup>334</sup>	55.11 <sup>81</sup>	25.463 <sup>353</sup>	26.76 <sup>69</sup>	50.01 <sup>72</sup>	47.15 <sup>185</sup>
14.7	41.666 <sup>316</sup>	8.98 <sup>83</sup>	29.888 <sup>324</sup>	54.30 <sup>71</sup>	25.816 <sup>343</sup>	26.07 <sup>53</sup>	50.73 <sup>65</sup>	49.00 <sup>241</sup>
24.6	41.982 <sup>297</sup>	8.15 <sup>73</sup>	30.212 <sup>305</sup>	53.59 <sup>58</sup>	26.159 <sup>323</sup>	25.54 <sup>35</sup>	51.38 <sup>56</sup>	51.41 <sup>290</sup>
Dez. 4.6	42.279 <sup>270</sup>	7.42 <sup>59</sup>	30.517 <sup>277</sup>	53.01 <sup>40</sup>	26.482 <sup>294</sup>	25.19 <sup>14</sup>	51.94 <sup>45</sup>	54.31 <sup>330</sup>
14.6	42.549 <sup>235</sup>	6.83 <sup>43</sup>	30.794 <sup>241</sup>	52.61 <sup>23</sup>	26.776 <sup>255</sup>	25.05 <sup>8</sup>	52.39 <sup>33</sup>	57.61 <sup>359</sup>
24.6	42.784 <sup>190</sup>	6.40 <sup>25</sup>	31.035 <sup>195</sup>	52.38 <sup>3</sup>	27.031 <sup>208</sup>	25.13 <sup>29</sup>	52.72 <sup>18</sup>	61.20 <sup>376</sup>
34.5	42.974	6.15	31.230	52.35	27.239	25.42	52.90	64.96
Mittl. Ort sec $\delta$ , tg $\delta$	37.236 1.100	27.49 +0.458	25.397 1.135	73.99 +0.537	21.124 1.201	47.56 +0.665	48.65 3.310	51.00 -3.155



Mittlere Zeit Greenw.	300) Gr. 1374		303) $\chi$ Argus		305) $\chi$ Geminorum		306) $\zeta$ Argus	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$7^h 50^m$	$+74^\circ 7'$	$7^h 54^m$	$-52^\circ 45'$	$7^h 58^m$	$+28^\circ 0'$	$8^h 0^m$	$-39^\circ 46'$
Jan. 0.6	44.99 <sub>41</sub>	46.78 <sub>247</sub>	47.541 <sub>134</sub>	65.03 <sub>374</sub>	38.856 <sub>186</sub>	58.24 <sub>2</sub>	48.704 <sub>143</sub>	42.06 <sub>346</sub>
10.5	45.40 <sub>26</sub>	49.25 <sub>267</sub>	47.675 <sub>59</sub>	68.77 <sub>371</sub>	39.042 <sub>132</sub>	58.22 <sub>18</sub>	48.847 <sub>83</sub>	45.52 <sub>342</sub>
20.5	45.66 <sub>9</sub>	51.92 <sub>275</sub>	47.734 <sub>16</sub>	72.48 <sub>359</sub>	39.174 <sub>76</sub>	58.40 <sub>36</sub>	48.930 <sub>22</sub>	48.94 <sub>327</sub>
30.5	45.75 <sub>9</sub>	54.67 <sub>273</sub>	47.718 <sub>88</sub>	76.07 <sub>336</sub>	39.250 <sub>17</sub>	58.76 <sub>50</sub>	48.952 <sub>37</sub>	52.21 <sub>305</sub>
Feb. 9.4	45.66 <sub>24</sub>	57.40 <sub>260</sub>	47.630 <sub>155</sub>	79.43 <sub>306</sub>	39.267 <sub>37</sub>	59.26 <sub>61</sub>	48.915 <sub>94</sub>	55.26 <sub>275</sub>
19.4	45.42 <sub>39</sub>	60.00 <sub>235</sub>	47.475 <sub>213</sub>	82.49 <sub>269</sub>	39.230 <sub>86</sub>	59.87 <sub>67</sub>	48.821 <sub>143</sub>	58.01 <sub>240</sub>
29.4	45.03 <sub>52</sub>	62.35 <sub>202</sub>	47.262 <sub>262</sub>	85.18 <sub>227</sub>	39.144 <sub>128</sub>	60.54 <sub>67</sub>	48.678 <sub>185</sub>	60.41 <sub>201</sub>
März 10.4	44.51 <sub>61</sub>	64.37 <sub>160</sub>	47.000 <sub>299</sub>	87.45 <sub>181</sub>	39.016 <sub>160</sub>	61.21 <sub>63</sub>	48.493 <sub>216</sub>	62.42 <sub>158</sub>
20.3	43.90 <sub>68</sub>	65.97 <sub>113</sub>	46.701 <sub>325</sub>	89.26 <sub>132</sub>	38.856 <sub>181</sub>	61.84 <sub>56</sub>	48.277 <sub>237</sub>	64.00 <sub>114</sub>
30.3	43.22 <sub>71</sub>	67.10 <sub>61</sub>	46.376 <sub>337</sub>	90.58 <sub>82</sub>	38.675 <sub>191</sub>	62.40 <sub>45</sub>	48.040 <sub>248</sub>	65.14 <sub>68</sub>
Apr. 9.3	42.51 <sub>72</sub>	67.71 <sub>8</sub>	46.039 <sub>338</sub>	91.40 <sub>31</sub>	38.484 <sub>189</sub>	62.85 <sub>33</sub>	47.792 <sub>249</sub>	65.82 <sub>22</sub>
19.3	41.79 <sub>69</sub>	67.79 <sub>44</sub>	45.701 <sub>328</sub>	91.71 <sub>21</sub>	38.295 <sub>178</sub>	63.18 <sub>20</sub>	47.543 <sub>240</sub>	66.04 <sub>24</sub>
29.2	41.10 <sub>63</sub>	67.35 <sub>95</sub>	45.373 <sub>308</sub>	91.50 <sub>70</sub>	38.117 <sub>159</sub>	63.38 <sub>6</sub>	47.303 <sub>223</sub>	65.80 <sub>68</sub>
Mai 9.2	40.47 <sub>56</sub>	66.40 <sub>141</sub>	45.065 <sub>280</sub>	90.80 <sub>119</sub>	37.958 <sub>131</sub>	63.44 <sub>6</sub>	47.080 <sub>200</sub>	65.12 <sub>111</sub>
19.2	39.91 <sub>46</sub>	64.99 <sub>182</sub>	44.785 <sub>243</sub>	89.61 <sub>163</sub>	37.827 <sub>101</sub>	63.38 <sub>19</sub>	46.880 <sub>169</sub>	64.01 <sub>151</sub>
29.1	39.45 <sub>34</sub>	63.17 <sub>218</sub>	44.542 <sub>201</sub>	87.98 <sub>204</sub>	37.726 <sub>64</sub>	63.19 <sub>30</sub>	46.711 <sub>135</sub>	62.50 <sub>186</sub>
Juni 8.1	39.11 <sub>23</sub>	60.99 <sub>246</sub>	44.341 <sub>153</sub>	85.94 <sub>238</sub>	37.662 <sub>28</sub>	62.89 <sub>39</sub>	46.576 <sub>98</sub>	60.64 <sub>217</sub>
18.1	38.88 <sub>10</sub>	58.53 <sub>268</sub>	44.188 <sub>103</sub>	83.56 <sub>268</sub>	37.634 <sub>11</sub>	62.50 <sub>47</sub>	46.478 <sub>58</sub>	58.47 <sub>242</sub>
28.1	38.78 <sub>3</sub>	55.85 <sub>282</sub>	44.085 <sub>49</sub>	80.88 <sub>288</sub>	37.645 <sub>48</sub>	62.03 <sub>54</sub>	46.420 <sub>16</sub>	56.05 <sub>261</sub>
Juli 8.0	38.81 <sub>16</sub>	53.03 <sub>291</sub>	44.036 <sub>7</sub>	78.00 <sub>302</sub>	37.693 <sub>84</sub>	61.49 <sub>61</sub>	46.404 <sub>27</sub>	53.44 <sub>271</sub>
18.0	38.97 <sub>29</sub>	50.12 <sub>292</sub>	44.043 <sub>63</sub>	74.98 <sub>305</sub>	37.777 <sub>120</sub>	60.88 <sub>66</sub>	46.431 <sub>68</sub>	50.73 <sub>273</sub>
28.0	39.26 <sub>40</sub>	47.20 <sub>287</sub>	44.106 <sub>119</sub>	71.93 <sub>300</sub>	37.897 <sub>151</sub>	60.22 <sub>73</sub>	46.499 <sub>111</sub>	48.00 <sub>267</sub>
Aug. 7.0	39.66 <sub>51</sub>	44.33 <sub>277</sub>	44.225 <sub>173</sub>	68.93 <sub>283</sub>	38.048 <sub>182</sub>	59.49 <sub>78</sub>	46.610 <sub>151</sub>	45.33 <sub>251</sub>
16.9	40.17 <sub>61</sub>	41.56 <sub>260</sub>	44.398 <sub>225</sub>	66.10 <sub>258</sub>	38.230 <sub>211</sub>	58.71 <sub>84</sub>	46.761 <sub>190</sub>	42.82 <sub>227</sub>
26.9	40.78 <sub>70</sub>	38.96 <sub>239</sub>	44.623 <sub>275</sub>	63.52 <sub>222</sub>	38.441 <sub>237</sub>	57.87 <sub>90</sub>	46.951 <sub>228</sub>	40.55 <sub>193</sub>
Sept. 5.9	41.48 <sub>79</sub>	36.57 <sub>213</sub>	44.898 <sub>318</sub>	61.30 <sub>177</sub>	38.678 <sub>261</sub>	56.97 <sub>95</sub>	47.179 <sub>261</sub>	38.62 <sub>151</sub>
15.8	42.27 <sub>85</sub>	34.44 <sub>182</sub>	45.216 <sub>357</sub>	59.53 <sub>124</sub>	38.939 <sub>283</sub>	56.02 <sub>101</sub>	47.440 <sub>291</sub>	37.11 <sub>101</sub>
25.8	43.12 <sub>91</sub>	32.62 <sub>147</sub>	45.573 <sub>388</sub>	58.29 <sub>66</sub>	39.222 <sub>303</sub>	55.01 <sub>105</sub>	47.731 <sub>317</sub>	36.10 <sub>48</sub>
Okt. 5.8	44.03 <sub>94</sub>	31.15 <sub>109</sub>	45.961 <sub>411</sub>	57.63 <sub>2</sub>	39.525 <sub>319</sub>	53.96 <sub>108</sub>	48.048 <sub>336</sub>	35.62 <sub>11</sub>
15.8	44.97 <sub>97</sub>	30.06 <sub>67</sub>	46.372 <sub>422</sub>	57.61 <sub>61</sub>	39.844 <sub>332</sub>	52.88 <sub>107</sub>	48.384 <sub>348</sub>	35.73 <sub>70</sub>
25.7	45.94 <sub>97</sub>	29.39 <sub>23</sub>	46.794 <sub>423</sub>	58.22 <sub>126</sub>	40.176 <sub>339</sub>	51.81 <sub>104</sub>	48.732 <sub>354</sub>	36.43 <sub>129</sub>
Nov. 4.7	46.91 <sub>96</sub>	29.16 <sub>24</sub>	47.217 <sub>411</sub>	59.48 <sub>186</sub>	40.515 <sub>340</sub>	50.77 <sub>97</sub>	49.086 <sub>347</sub>	37.72 <sub>184</sub>
14.7	47.87 <sub>91</sub>	29.40 <sub>71</sub>	47.628 <sub>387</sub>	61.34 <sub>242</sub>	40.855 <sub>333</sub>	49.80 <sub>86</sub>	49.433 <sub>333</sub>	39.56 <sub>233</sub>
24.7	48.78 <sub>85</sub>	30.11 <sub>117</sub>	48.015 <sub>350</sub>	63.76 <sub>288</sub>	41.188 <sub>317</sub>	48.94 <sub>72</sub>	49.766 <sub>308</sub>	41.89 <sub>275</sub>
Dez. 4.6	49.63 <sub>76</sub>	31.28 <sub>161</sub>	48.365 <sub>302</sub>	66.64 <sub>326</sub>	41.505 <sub>292</sub>	48.22 <sub>54</sub>	50.074 <sub>273</sub>	44.64 <sub>308</sub>
14.6	50.39 <sub>65</sub>	32.89 <sub>200</sub>	48.667 <sub>243</sub>	69.90 <sub>352</sub>	41.797 <sub>257</sub>	47.68 <sub>34</sub>	50.347 <sub>229</sub>	47.72 <sub>330</sub>
24.6	51.04 <sub>51</sub>	34.89 <sub>234</sub>	48.910 <sub>176</sub>	73.42 <sub>368</sub>	42.054 <sub>215</sub>	47.34 <sub>13</sub>	50.576 <sub>176</sub>	51.02 <sub>341</sub>
34.5	51.55	37.23	49.086	77.10	42.269	47.21	50.752	54.43
Mittl. Ort sec $\delta$ , tg $\delta$	38.91 3.658	61.62 +3.518	44.736 1.653	61.73 -1.316	36.482 1.133	70.98 +0.532	46.288 1.301	37.72 -0.832

Mittlere Zeit Greenw.	307) 27 Lynceis		308) ι Navis		309) γ Argus		310) Br. 1147	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	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° 5'	8 <sup>h</sup> 9 <sup>m</sup>	+75° 59'
Jan. 0.6	29.896 <sup>247</sup>	63.94 <sup>135</sup>	10.393 <sup>150</sup>	28.77 <sup>292</sup>	6.586 <sup>152</sup>	64.25 <sup>364</sup>	38.22 <sup>52</sup>	55.27 <sup>243</sup>
10.5	30.143 <sup>173</sup>	65.29 <sup>158</sup>	10.543 <sup>99</sup>	31.69 <sup>283</sup>	6.738 <sup>86</sup>	67.89 <sup>363</sup>	38.74 <sup>35</sup>	57.70 <sup>267</sup>
20.5	30.316 <sup>95</sup>	66.87 <sup>174</sup>	10.642 <sup>46</sup>	34.52 <sup>266</sup>	6.824 <sup>18</sup>	71.52 <sup>350</sup>	39.09 <sup>16</sup>	60.37 <sup>281</sup>
30.5	30.411 <sup>14</sup>	68.61 <sup>182</sup>	10.688 <sup>7</sup>	37.18 <sup>244</sup>	6.842 <sup>48</sup>	75.02 <sup>330</sup>	39.25 <sup>3</sup>	63.18 <sup>283</sup>
Feb. 9.5	30.425 <sup>61</sup>	70.43 <sup>181</sup>	10.681 <sup>57</sup>	39.62 <sup>216</sup>	6.794 <sup>110</sup>	78.32 <sup>301</sup>	39.22 <sup>22</sup>	66.01 <sup>273</sup>
19.4	30.364 <sup>132</sup>	72.24 <sup>173</sup>	10.624 <sup>101</sup>	41.78 <sup>185</sup>	6.684 <sup>165</sup>	81.33 <sup>267</sup>	39.00	68.74 <sup>254</sup>
29.4	30.232 <sup>190</sup>	73.97 <sup>157</sup>	10.523 <sup>139</sup>	43.63 <sup>151</sup>	6.519 <sup>212</sup>	84.00 <sup>226</sup>	38.61 <sup>39</sup>	71.28 <sup>223</sup>
März 10.4	30.042 <sup>237</sup>	75.54 <sup>133</sup>	10.384 <sup>167</sup>	45.14 <sup>116</sup>	6.307 <sup>247</sup>	86.26 <sup>183</sup>	38.08 <sup>66</sup>	73.51 <sup>183</sup>
20.3	29.805 <sup>269</sup>	76.87 <sup>104</sup>	10.217 <sup>186</sup>	46.30 <sup>78</sup>	6.060 <sup>272</sup>	88.09 <sup>136</sup>	37.42 <sup>74</sup>	75.34 <sup>137</sup>
30.3	29.536 <sup>286</sup>	77.91 <sup>71</sup>	10.031 <sup>195</sup>	47.08 <sup>42</sup>	5.788 <sup>285</sup>	89.45 <sup>88</sup>	36.68 <sup>80</sup>	76.71 <sup>85</sup>
Apr. 9.3	29.250 <sup>287</sup>	78.62 <sup>35</sup>	9.836 <sup>196</sup>	47.50 <sup>6</sup>	5.503 <sup>289</sup>	90.33 <sup>38</sup>	35.88 <sup>81</sup>	77.56 <sup>32</sup>
19.3	28.963 <sup>275</sup>	78.97 <sup>1</sup>	9.640 <sup>187</sup>	47.56 <sup>31</sup>	5.214 <sup>281</sup>	90.71 <sup>11</sup>	35.07 <sup>80</sup>	77.88 <sup>22</sup>
29.2	28.688 <sup>249</sup>	78.96 <sup>36</sup>	9.453 <sup>171</sup>	47.25 <sup>65</sup>	4.933 <sup>265</sup>	90.60 <sup>58</sup>	34.27 <sup>75</sup>	77.66 <sup>75</sup>
Mai 9.2	28.439 <sup>215</sup>	78.60 <sup>70</sup>	9.282 <sup>149</sup>	46.60 <sup>97</sup>	4.668 <sup>241</sup>	90.02 <sup>105</sup>	33.52 <sup>68</sup>	76.91 <sup>124</sup>
19.2	28.224 <sup>171</sup>	77.90 <sup>101</sup>	9.133 <sup>123</sup>	45.63 <sup>128</sup>	4.427 <sup>210</sup>	88.97 <sup>149</sup>	32.84 <sup>57</sup>	75.67 <sup>169</sup>
29.2	28.053 <sup>122</sup>	76.89 <sup>127</sup>	9.010 <sup>93</sup>	44.35 <sup>155</sup>	4.217 <sup>174</sup>	87.48 <sup>188</sup>	32.27 <sup>46</sup>	73.98 <sup>208</sup>
Juni 8.1	27.931 <sup>69</sup>	75.62 <sup>150</sup>	8.917 <sup>60</sup>	42.80 <sup>178</sup>	4.043 <sup>134</sup>	85.60 <sup>222</sup>	31.81 <sup>34</sup>	71.90 <sup>241</sup>
18.1	27.862 <sup>15</sup>	74.12 <sup>168</sup>	8.857 <sup>26</sup>	41.02 <sup>196</sup>	3.909 <sup>89</sup>	83.38 <sup>251</sup>	31.47 <sup>19</sup>	69.49 <sup>267</sup>
28.1	27.847 <sup>40</sup>	72.44 <sup>183</sup>	8.831 <sup>8</sup>	39.06 <sup>210</sup>	3.820 <sup>43</sup>	80.87 <sup>273</sup>	31.28 <sup>5</sup>	66.82 <sup>286</sup>
Juli 8.0	27.887 <sup>93</sup>	70.61 <sup>193</sup>	8.839 <sup>43</sup>	36.96 <sup>215</sup>	3.777 <sup>4</sup>	78.14 <sup>286</sup>	31.23 <sup>9</sup>	63.96 <sup>298</sup>
18.0	27.980 <sup>145</sup>	68.68 <sup>199</sup>	8.882 <sup>78</sup>	34.81 <sup>216</sup>	3.781 <sup>54</sup>	75.28 <sup>292</sup>	31.32 <sup>23</sup>	60.98 <sup>304</sup>
28.0	28.125 <sup>194</sup>	66.69 <sup>201</sup>	8.960 <sup>111</sup>	32.65 <sup>209</sup>	3.835 <sup>101</sup>	72.36 <sup>287</sup>	31.55 <sup>37</sup>	57.94 <sup>303</sup>
Aug. 7.0	28.319 <sup>239</sup>	64.68 <sup>200</sup>	9.071 <sup>143</sup>	30.56 <sup>193</sup>	3.936 <sup>150</sup>	69.49 <sup>273</sup>	31.92 <sup>50</sup>	54.91 <sup>295</sup>
16.9	28.558 <sup>281</sup>	62.68 <sup>196</sup>	9.214 <sup>174</sup>	28.63 <sup>170</sup>	4.086 <sup>195</sup>	66.76 <sup>249</sup>	32.42 <sup>62</sup>	51.96 <sup>282</sup>
26.9	28.839 <sup>321</sup>	60.72 <sup>188</sup>	9.388 <sup>203</sup>	26.93 <sup>141</sup>	4.281 <sup>239</sup>	64.27 <sup>216</sup>	33.04 <sup>73</sup>	49.14 <sup>263</sup>
Sept. 5.9	29.160 <sup>356</sup>	58.84 <sup>177</sup>	9.591 <sup>231</sup>	25.52 <sup>103</sup>	4.520 <sup>280</sup>	62.11 <sup>174</sup>	33.77 <sup>82</sup>	46.51 <sup>239</sup>
15.9	29.516 <sup>388</sup>	57.07 <sup>164</sup>	9.822 <sup>255</sup>	24.49 <sup>61</sup>	4.800 <sup>316</sup>	60.37 <sup>123</sup>	34.59 <sup>92</sup>	44.12 <sup>209</sup>
25.8	29.904 <sup>415</sup>	55.43 <sup>147</sup>	10.077 <sup>277</sup>	23.88 <sup>15</sup>	5.116 <sup>345</sup>	59.14 <sup>68</sup>	35.51 <sup>98</sup>	42.03 <sup>176</sup>
Okt. 5.8	30.319 <sup>438</sup>	53.96 <sup>126</sup>	10.354 <sup>295</sup>	23.73 <sup>35</sup>	5.461 <sup>369</sup>	58.46 <sup>6</sup>	36.49 <sup>103</sup>	40.27 <sup>137</sup>
15.8	30.757 <sup>454</sup>	52.70 <sup>103</sup>	10.649 <sup>307</sup>	24.08 <sup>84</sup>	5.830 <sup>384</sup>	58.40 <sup>55</sup>	37.52 <sup>108</sup>	38.90 <sup>95</sup>
25.7	31.211 <sup>463</sup>	51.67 <sup>75</sup>	10.956 <sup>313</sup>	24.92 <sup>133</sup>	6.214 <sup>388</sup>	58.95 <sup>118</sup>	38.60 <sup>109</sup>	37.95 <sup>49</sup>
Nov. 4.7	31.674 <sup>463</sup>	50.92 <sup>46</sup>	11.269 <sup>312</sup>	26.25 <sup>177</sup>	6.602 <sup>383</sup>	60.13 <sup>177</sup>	39.69 <sup>108</sup>	37.46 <sup>1</sup>
14.7	32.137 <sup>452</sup>	50.46 <sup>13</sup>	11.581 <sup>302</sup>	28.02 <sup>216</sup>	6.985 <sup>366</sup>	61.90 <sup>231</sup>	40.77 <sup>105</sup>	37.45 <sup>49</sup>
24.7	32.589 <sup>429</sup>	50.33 <sup>22</sup>	11.883 <sup>285</sup>	30.18 <sup>247</sup>	7.351 <sup>337</sup>	64.21 <sup>277</sup>	41.82 <sup>98</sup>	37.94 <sup>98</sup>
Dez. 4.6	33.018 <sup>393</sup>	50.55 <sup>56</sup>	12.168 <sup>257</sup>	32.65 <sup>272</sup>	7.688 <sup>298</sup>	66.98 <sup>314</sup>	42.80 <sup>89</sup>	38.92 <sup>145</sup>
14.6	33.411 <sup>347</sup>	51.11 <sup>90</sup>	12.425 <sup>221</sup>	35.37 <sup>285</sup>	7.986 <sup>247</sup>	70.12 <sup>341</sup>	43.69 <sup>77</sup>	40.37 <sup>189</sup>
24.6	33.758 <sup>286</sup>	52.01 <sup>121</sup>	12.646 <sup>178</sup>	38.22 <sup>290</sup>	8.233 <sup>290</sup>	73.53 <sup>358</sup>	44.46 <sup>63</sup>	42.26 <sup>226</sup>
34.6	34.044	53.22	12.824	41.12	8.423	77.11	45.09	44.52
Mittl. Ort sec <sup>2</sup> , tg °	26.843 1.615	78.92 +1.268	8.196 1.095	22.58 -0.447	3.992 1.469	61.06 -1.076	31.80 4.135	71.78 +4.012

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	311) 20 Navis		312) β Cancri		314) 31 Lynceis		315) ε Argus	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	8 <sup>h</sup> 9 <sup>m</sup>	-15° 32'	8 <sup>h</sup> 12 <sup>m</sup>	+9° 25'	8 <sup>h</sup> 17 <sup>m</sup>	+43° 26'	8 <sup>h</sup> 20 <sup>m</sup>	-59° 15'
1920								
Jan. 0.6	41.498 <sup>160</sup>	54.35 <sup>255</sup>	12.843 <sup>178</sup>	47.95 <sup>120</sup>	24.527 <sup>238</sup>	29.68 <sup>81</sup>	55.581 <sup>186</sup>	6.81 <sup>379</sup>
10.5	41.658 <sup>110</sup>	56.90 <sup>243</sup>	13.021 <sup>129</sup>	46.75 <sup>103</sup>	24.765 <sup>176</sup>	30.49 <sup>105</sup>	55.767 <sup>101</sup>	10.60 <sup>384</sup>
20.5	41.768 <sup>60</sup>	59.33 <sup>227</sup>	13.150 <sup>79</sup>	45.72 <sup>83</sup>	24.941 <sup>108</sup>	31.54 <sup>125</sup>	55.868 <sup>13</sup>	14.44 <sup>378</sup>
30.5	41.828 <sup>8</sup>	61.60 <sup>204</sup>	13.229 <sup>27</sup>	44.89 <sup>62</sup>	25.049 <sup>39</sup>	32.79 <sup>140</sup>	55.881 <sup>71</sup>	18.22 <sup>362</sup>
Feb. 9.5	41.836 <sup>41</sup>	63.64 <sup>179</sup>	13.256 <sup>23</sup>	44.27 <sup>44</sup>	25.088 <sup>28</sup>	34.19 <sup>146</sup>	55.810 <sup>151</sup>	21.84 <sup>337</sup>
19.4	41.795 <sup>84</sup>	65.43 <sup>150</sup>	13.233 <sup>68</sup>	43.83 <sup>26</sup>	25.060 <sup>89</sup>	35.65 <sup>145</sup>	55.659 <sup>222</sup>	25.21 <sup>306</sup>
29.4	41.711 <sup>121</sup>	66.93 <sup>121</sup>	13.165 <sup>105</sup>	43.57 <sup>11</sup>	24.971 <sup>143</sup>	37.10 <sup>137</sup>	55.437 <sup>283</sup>	28.27 <sup>266</sup>
März 10.4	41.590 <sup>149</sup>	68.14 <sup>89</sup>	13.060 <sup>136</sup>	43.46 <sup>2</sup>	24.828 <sup>185</sup>	38.47 <sup>122</sup>	55.154 <sup>332</sup>	30.93 <sup>223</sup>
20.3	41.441 <sup>169</sup>	69.03 <sup>59</sup>	12.924 <sup>155</sup>	43.48 <sup>13</sup>	24.643 <sup>216</sup>	39.69 <sup>102</sup>	54.822 <sup>368</sup>	33.16 <sup>176</sup>
30.3	41.272 <sup>178</sup>	69.62 <sup>28</sup>	12.769 <sup>165</sup>	43.61 <sup>21</sup>	24.427 <sup>232</sup>	40.71 <sup>78</sup>	54.454 <sup>390</sup>	34.92 <sup>126</sup>
Apr. 9.3	41.094 <sup>178</sup>	69.90 <sup>1</sup>	12.604 <sup>167</sup>	43.82 <sup>29</sup>	24.195 <sup>236</sup>	41.49 <sup>50</sup>	54.064 <sup>400</sup>	36.18 <sup>73</sup>
19.3	40.916 <sup>172</sup>	69.89 <sup>31</sup>	12.437 <sup>158</sup>	44.11 <sup>34</sup>	23.959 <sup>228</sup>	41.99 <sup>22</sup>	53.664 <sup>398</sup>	36.91 <sup>21</sup>
29.2	40.744 <sup>156</sup>	69.58 <sup>58</sup>	12.279 <sup>143</sup>	44.45 <sup>38</sup>	23.731 <sup>209</sup>	42.21 <sup>8</sup>	53.266 <sup>383</sup>	37.12 <sup>30</sup>
Mai 9.2	40.588 <sup>135</sup>	69.00 <sup>85</sup>	12.136 <sup>121</sup>	44.83 <sup>42</sup>	23.522 <sup>182</sup>	42.13 <sup>36</sup>	52.883 <sup>399</sup>	36.82 <sup>83</sup>
19.2	40.453 <sup>110</sup>	68.15 <sup>109</sup>	12.015 <sup>95</sup>	45.25 <sup>45</sup>	23.340 <sup>147</sup>	41.77 <sup>62</sup>	52.524 <sup>325</sup>	35.99 <sup>131</sup>
29.2	40.343 <sup>81</sup>	67.06 <sup>130</sup>	11.920 <sup>66</sup>	45.70 <sup>47</sup>	23.193 <sup>108</sup>	41.15 <sup>85</sup>	52.199 <sup>283</sup>	34.68 <sup>176</sup>
Juni 8.1	40.262 <sup>51</sup>	65.76 <sup>148</sup>	11.854 <sup>35</sup>	46.17 <sup>50</sup>	23.085 <sup>64</sup>	40.30 <sup>106</sup>	51.916 <sup>233</sup>	32.92 <sup>216</sup>
18.1	40.211 <sup>18</sup>	64.28 <sup>163</sup>	11.819 <sup>2</sup>	46.67 <sup>49</sup>	23.021 <sup>21</sup>	39.24 <sup>125</sup>	51.683 <sup>180</sup>	30.76 <sup>251</sup>
28.1	40.193 <sup>14</sup>	62.65 <sup>172</sup>	11.817 <sup>29</sup>	47.16 <sup>48</sup>	23.000 <sup>25</sup>	37.99 <sup>138</sup>	51.503 <sup>120</sup>	28.25 <sup>279</sup>
Juli 8.0	40.207 <sup>46</sup>	60.93 <sup>177</sup>	11.846 <sup>62</sup>	47.64 <sup>46</sup>	23.025 <sup>69</sup>	36.61 <sup>150</sup>	51.383 <sup>56</sup>	25.46 <sup>298</sup>
18.0	40.253 <sup>78</sup>	59.16 <sup>176</sup>	11.908 <sup>91</sup>	48.10 <sup>39</sup>	23.094 <sup>112</sup>	35.11 <sup>160</sup>	51.327 <sup>9</sup>	22.48 <sup>309</sup>
28.0	40.331 <sup>109</sup>	57.40 <sup>168</sup>	11.999 <sup>121</sup>	48.49 <sup>32</sup>	23.206 <sup>152</sup>	33.51 <sup>165</sup>	51.336 <sup>77</sup>	19.39 <sup>309</sup>
Aug. 7.0	40.440 <sup>139</sup>	55.72 <sup>154</sup>	12.120 <sup>148</sup>	48.81 <sup>20</sup>	23.358 <sup>192</sup>	31.86 <sup>169</sup>	51.413 <sup>144</sup>	16.30 <sup>300</sup>
16.9	40.579 <sup>168</sup>	54.18 <sup>133</sup>	12.268 <sup>175</sup>	49.01 <sup>7</sup>	23.550 <sup>228</sup>	30.17 <sup>170</sup>	51.557 <sup>210</sup>	13.30 <sup>280</sup>
26.9	40.747 <sup>195</sup>	52.85 <sup>106</sup>	12.443 <sup>200</sup>	49.08 <sup>10</sup>	23.778 <sup>262</sup>	28.47 <sup>169</sup>	51.767 <sup>273</sup>	10.50 <sup>250</sup>
Sept. 5.9	40.942 <sup>220</sup>	51.79 <sup>74</sup>	12.643 <sup>223</sup>	48.98 <sup>28</sup>	24.040 <sup>294</sup>	26.78 <sup>166</sup>	52.040 <sup>333</sup>	8.00 <sup>210</sup>
15.9	41.162 <sup>244</sup>	51.05 <sup>36</sup>	12.866 <sup>246</sup>	48.70 <sup>49</sup>	24.334 <sup>323</sup>	25.12 <sup>159</sup>	52.373 <sup>385</sup>	5.90 <sup>160</sup>
25.8	41.406 <sup>266</sup>	50.69 <sup>5</sup>	13.112 <sup>265</sup>	48.21 <sup>71</sup>	24.657 <sup>350</sup>	23.53 <sup>151</sup>	52.758 <sup>429</sup>	4.30 <sup>104</sup>
Okt. 5.8	41.672 <sup>283</sup>	50.74 <sup>48</sup>	13.377 <sup>283</sup>	47.50 <sup>91</sup>	25.007 <sup>372</sup>	22.02 <sup>140</sup>	53.187 <sup>464</sup>	3.26 <sup>42</sup>
15.8	41.955 <sup>296</sup>	51.22 <sup>90</sup>	13.660 <sup>297</sup>	46.59 <sup>112</sup>	25.379 <sup>390</sup>	20.62 <sup>123</sup>	53.651 <sup>485</sup>	2.84 <sup>23</sup>
25.7	42.251 <sup>303</sup>	52.12 <sup>132</sup>	13.957 <sup>306</sup>	45.47 <sup>128</sup>	25.769 <sup>402</sup>	19.39 <sup>105</sup>	54.136 <sup>494</sup>	3.07 <sup>90</sup>
Nov. 4.7	42.554 <sup>305</sup>	53.44 <sup>170</sup>	14.263 <sup>308</sup>	44.19 <sup>141</sup>	26.171 <sup>406</sup>	18.34 <sup>82</sup>	54.630 <sup>487</sup>	3.97 <sup>154</sup>
14.7	42.859 <sup>297</sup>	55.14 <sup>202</sup>	14.571 <sup>304</sup>	42.78 <sup>148</sup>	26.577 <sup>401</sup>	17.52 <sup>56</sup>	55.117 <sup>465</sup>	5.51 <sup>213</sup>
24.7	43.156 <sup>282</sup>	57.16 <sup>227</sup>	14.875 <sup>292</sup>	41.30 <sup>152</sup>	26.978 <sup>385</sup>	16.96 <sup>28</sup>	55.582 <sup>427</sup>	7.64 <sup>266</sup>
Dez. 4.6	43.438 <sup>259</sup>	59.43 <sup>245</sup>	15.167 <sup>270</sup>	39.78 <sup>148</sup>	27.363 <sup>359</sup>	16.68 <sup>4</sup>	56.009 <sup>375</sup>	10.30 <sup>311</sup>
14.6	43.697 <sup>225</sup>	61.88 <sup>254</sup>	15.437 <sup>241</sup>	38.30 <sup>140</sup>	27.722 <sup>300</sup>	16.72 <sup>35</sup>	56.384 <sup>310</sup>	13.41 <sup>345</sup>
24.6	43.922 <sup>186</sup>	64.42 <sup>255</sup>	15.678 <sup>203</sup>	36.90 <sup>128</sup>	28.042 <sup>271</sup>	17.07 <sup>65</sup>	56.694 <sup>234</sup>	16.86 <sup>368</sup>
34.6	44.108	66.97	15.881	35.62	28.313	17.72	56.928	20.54
Mittl. Ort sec δ, tg δ	39.365 1.038	47.08 -0.278	10.703 1.014	58.86 +0.166	21.894 1.377	45.00 +0.947	52.453 1.956	5.73 -1.681

Mittlere Zeit Greenw.	316) Br. 1197		318) ♀ Chamael.		317) ♀ Ursae maj.		320) Gr. 1450	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	8 <sup>h</sup> 21 <sup>m</sup>	-3° 38'	8 <sup>h</sup> 22 <sup>m</sup>	-77° 13'	8 <sup>h</sup> 23 <sup>m</sup>	+60° 58'	8 <sup>h</sup> 27 <sup>m</sup>	+38° 17'
Jan. 0.6	41.927 <sup>176</sup>	49.47 <sup>197</sup>	69.88 <sup>28</sup>	36.23 <sup>375</sup>	41.35 <sup>34</sup>	55.99 <sup>169</sup>	45.695 <sup>236</sup>	15.26 <sup>44</sup>
10.5	42.103 <sup>130</sup>	51.44 <sup>182</sup>	70.16 <sup>10</sup>	39.98 <sup>384</sup>	41.69 <sup>23</sup>	57.68 <sup>197</sup>	45.931 <sup>178</sup>	15.70 <sup>71</sup>
20.5	42.233 <sup>80</sup>	53.26 <sup>164</sup>	70.26 <sup>10</sup>	43.82 <sup>384</sup>	41.92 <sup>14</sup>	59.65 <sup>217</sup>	46.109 <sup>116</sup>	16.41 <sup>93</sup>
30.5	42.313 <sup>29</sup>	54.90 <sup>143</sup>	70.16 <sup>28</sup>	47.66 <sup>373</sup>	42.06 <sup>5</sup>	61.82 <sup>227</sup>	46.225 <sup>52</sup>	17.34 <sup>110</sup>
Feb. 9.5	42.342 <sup>20</sup>	56.33 <sup>119</sup>	69.88 <sup>44</sup>	51.39 <sup>353</sup>	42.11 <sup>6</sup>	64.09 <sup>228</sup>	46.277 <sup>11</sup>	18.44 <sup>121</sup>
19.4	42.322 <sup>64</sup>	57.52 <sup>95</sup>	69.44 <sup>60</sup>	54.92 <sup>324</sup>	42.05 <sup>14</sup>	66.37 <sup>218</sup>	46.266 <sup>70</sup>	19.65 <sup>124</sup>
29.4	42.258 <sup>101</sup>	58.47 <sup>72</sup>	68.84 <sup>73</sup>	58.16 <sup>289</sup>	41.91 <sup>22</sup>	68.55 <sup>200</sup>	46.196 <sup>121</sup>	20.89 <sup>122</sup>
März 10.4	42.157 <sup>131</sup>	59.19 <sup>49</sup>	68.11 <sup>84</sup>	61.05 <sup>249</sup>	41.69 <sup>30</sup>	70.55 <sup>173</sup>	46.075 <sup>160</sup>	22.11 <sup>113</sup>
20.4	42.026 <sup>151</sup>	59.68 <sup>27</sup>	67.27 <sup>92</sup>	63.54 <sup>203</sup>	41.39 <sup>33</sup>	72.28 <sup>138</sup>	45.915 <sup>191</sup>	23.24 <sup>98</sup>
30.3	41.875 <sup>163</sup>	59.95 <sup>6</sup>	66.35 <sup>98</sup>	65.57 <sup>154</sup>	41.06 <sup>37</sup>	73.66 <sup>100</sup>	45.724 <sup>208</sup>	24.22 <sup>79</sup>
Apr. 9.3	41.712 <sup>165</sup>	60.01 <sup>13</sup>	65.37 <sup>101</sup>	67.11 <sup>102</sup>	40.69 <sup>37</sup>	74.66 <sup>56</sup>	45.516 <sup>213</sup>	25.01 <sup>57</sup>
19.3	41.547 <sup>159</sup>	59.88 <sup>31</sup>	64.36 <sup>101</sup>	68.13 <sup>49</sup>	40.32 <sup>37</sup>	75.22 <sup>13</sup>	45.303 <sup>208</sup>	25.58 <sup>34</sup>
29.2	41.388 <sup>146</sup>	59.57 <sup>49</sup>	63.35 <sup>99</sup>	68.62 <sup>4</sup>	39.95 <sup>35</sup>	75.35 <sup>31</sup>	45.095 <sup>192</sup>	25.92 <sup>8</sup>
Mai 9.2	41.242 <sup>127</sup>	59.08 <sup>64</sup>	62.36 <sup>96</sup>	68.58 <sup>58</sup>	39.60 <sup>31</sup>	75.04 <sup>73</sup>	44.903 <sup>168</sup>	26.00 <sup>15</sup>
19.2	41.115 <sup>102</sup>	58.44 <sup>78</sup>	61.40 <sup>88</sup>	68.00 <sup>108</sup>	39.29 <sup>27</sup>	74.31 <sup>112</sup>	44.735 <sup>138</sup>	25.85 <sup>39</sup>
29.2	41.013 <sup>76</sup>	57.66 <sup>91</sup>	60.52 <sup>80</sup>	66.92 <sup>157</sup>	39.02 <sup>20</sup>	73.19 <sup>147</sup>	44.597 <sup>103</sup>	25.46 <sup>60</sup>
Juni 8.1	40.937 <sup>47</sup>	56.75 <sup>102</sup>	59.72 <sup>70</sup>	65.35 <sup>202</sup>	38.82 <sup>15</sup>	71.72 <sup>178</sup>	44.494 <sup>66</sup>	24.86 <sup>79</sup>
18.1	40.890 <sup>16</sup>	55.73 <sup>109</sup>	59.02 <sup>57</sup>	63.33 <sup>240</sup>	38.67 <sup>8</sup>	69.94 <sup>203</sup>	44.428 <sup>25</sup>	24.07 <sup>96</sup>
28.1	40.874 <sup>14</sup>	54.64 <sup>114</sup>	58.45 <sup>44</sup>	60.93 <sup>271</sup>	38.59 <sup>1</sup>	67.91 <sup>223</sup>	44.403 <sup>15</sup>	23.11 <sup>110</sup>
Juli 8.1	40.888 <sup>45</sup>	53.50 <sup>115</sup>	58.01 <sup>28</sup>	58.22 <sup>296</sup>	38.58 <sup>6</sup>	65.68 <sup>238</sup>	44.418 <sup>56</sup>	22.01 <sup>123</sup>
18.0	40.933 <sup>74</sup>	52.35 <sup>111</sup>	57.73 <sup>12</sup>	55.26 <sup>312</sup>	38.64 <sup>12</sup>	63.30 <sup>248</sup>	44.474 <sup>93</sup>	20.78 <sup>132</sup>
28.0	41.007 <sup>104</sup>	51.24 <sup>104</sup>	57.61 <sup>4</sup>	52.14 <sup>316</sup>	38.76 <sup>19</sup>	60.82 <sup>253</sup>	44.567 <sup>132</sup>	19.46 <sup>141</sup>
Aug. 7.0	41.111 <sup>132</sup>	50.20 <sup>91</sup>	57.65 <sup>22</sup>	48.98 <sup>312</sup>	38.95 <sup>25</sup>	58.29 <sup>253</sup>	44.699 <sup>167</sup>	18.05 <sup>147</sup>
16.9	41.243 <sup>159</sup>	49.29 <sup>74</sup>	57.87 <sup>38</sup>	45.86 <sup>296</sup>	39.20 <sup>31</sup>	55.76 <sup>247</sup>	44.866 <sup>201</sup>	16.58 <sup>152</sup>
26.9	41.402 <sup>185</sup>	48.55 <sup>52</sup>	58.25 <sup>54</sup>	42.90 <sup>269</sup>	39.51 <sup>36</sup>	53.29 <sup>239</sup>	45.067 <sup>233</sup>	15.06 <sup>154</sup>
Sept. 5.9	41.587 <sup>210</sup>	48.03 <sup>25</sup>	58.79 <sup>68</sup>	40.21 <sup>232</sup>	39.87 <sup>41</sup>	50.90 <sup>224</sup>	45.300 <sup>264</sup>	13.52 <sup>156</sup>
15.9	41.797 <sup>234</sup>	47.78 <sup>4</sup>	59.47 <sup>81</sup>	37.89 <sup>185</sup>	40.28 <sup>46</sup>	48.66 <sup>207</sup>	45.564 <sup>293</sup>	11.96 <sup>154</sup>
25.8	42.031 <sup>256</sup>	47.82 <sup>36</sup>	60.28 <sup>91</sup>	36.04 <sup>132</sup>	40.74 <sup>50</sup>	46.59 <sup>184</sup>	45.857 <sup>318</sup>	10.42 <sup>151</sup>
Okt. 5.8	42.287 <sup>274</sup>	48.18 <sup>69</sup>	61.19 <sup>99</sup>	34.72 <sup>70</sup>	41.24 <sup>53</sup>	44.75 <sup>158</sup>	46.175 <sup>342</sup>	8.91 <sup>145</sup>
15.8	42.561 <sup>289</sup>	48.87 <sup>102</sup>	62.18 <sup>104</sup>	34.02 <sup>5</sup>	41.77 <sup>55</sup>	43.17 <sup>127</sup>	46.517 <sup>361</sup>	7.46 <sup>134</sup>
25.8	42.850 <sup>300</sup>	49.89 <sup>131</sup>	63.22 <sup>104</sup>	33.97 <sup>61</sup>	42.32 <sup>57</sup>	41.90 <sup>92</sup>	46.878 <sup>375</sup>	6.12 <sup>121</sup>
Nov. 4.7	43.150 <sup>303</sup>	51.20 <sup>159</sup>	64.26 <sup>102</sup>	34.58 <sup>127</sup>	42.89 <sup>58</sup>	40.98 <sup>53</sup>	47.253 <sup>380</sup>	4.91 <sup>104</sup>
14.7	43.453 <sup>299</sup>	52.79 <sup>180</sup>	65.28 <sup>95</sup>	35.85 <sup>189</sup>	43.47 <sup>57</sup>	40.45 <sup>13</sup>	47.633 <sup>378</sup>	3.87 <sup>82</sup>
24.7	43.752 <sup>288</sup>	54.59 <sup>195</sup>	66.23 <sup>85</sup>	37.74 <sup>246</sup>	44.04 <sup>54</sup>	40.32 <sup>29</sup>	48.011 <sup>367</sup>	3.05 <sup>57</sup>
Dez. 4.6	44.040 <sup>268</sup>	56.54 <sup>203</sup>	67.08 <sup>72</sup>	40.20 <sup>293</sup>	44.58 <sup>50</sup>	40.61 <sup>73</sup>	48.378 <sup>343</sup>	2.48 <sup>29</sup>
14.6	44.308 <sup>238</sup>	58.57 <sup>206</sup>	67.80 <sup>57</sup>	43.13 <sup>333</sup>	45.08 <sup>45</sup>	41.34 <sup>113</sup>	48.721 <sup>310</sup>	2.19 <sup>0</sup>
24.6	44.546 <sup>201</sup>	60.63 <sup>200</sup>	68.37 <sup>40</sup>	46.46 <sup>360</sup>	45.53 <sup>38</sup>	42.47 <sup>151</sup>	49.031 <sup>265</sup>	2.19 <sup>29</sup>
34.6	44.747	62.63	68.77	50.06	45.91	43.98	49.296	2.48
Mittl. Ort sec δ, tg δ	39.845 1.002	40.47 -0.064	63.82 4.523	36.76 -4.411	37.87 2.062	73.11 +1.803	43.257 1.274	30.60 +0.790

Mittlere Zeit Greenw.	321) $\eta$ Caneri		326) $\delta$ Caneri		327) $\alpha$ Pyxidid		328) $\iota$ Caneri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$8^{\text{h}} 28^{\text{m}}$	$+20^{\circ} 42'$	$8^{\text{h}} 40^{\text{m}}$	$+18^{\circ} 26'$	$8^{\text{h}} 40^{\text{m}}$	$-32^{\circ} 53'$	$8^{\text{h}} 41^{\text{m}}$	$+29^{\circ} 2'$
Jan. 0.6	7.297 <sup>204</sup>	36.94 <sup>59</sup>	10.590 <sup>213</sup>	44.15 <sup>78</sup>	24.851 <sup>190</sup>	53.98 <sup>325</sup>	53.815 <sup>230</sup>	57.73 <sup>16</sup>
10.6	7.501 <sup>155</sup>	36.35 <sup>38</sup>	10.803 <sup>165</sup>	43.37 <sup>55</sup>	25.041 <sup>137</sup>	57.23 <sup>323</sup>	54.045 <sup>179</sup>	57.57 <sup>9</sup>
20.5	7.656 <sup>102</sup>	35.97 <sup>15</sup>	10.968 <sup>113</sup>	42.82 <sup>34</sup>	25.178 <sup>81</sup>	60.46 <sup>313</sup>	54.224 <sup>123</sup>	57.66 <sup>34</sup>
30.5	7.758 <sup>47</sup>	35.82 <sup>4</sup>	11.081 <sup>58</sup>	42.48 <sup>12</sup>	25.259 <sup>23</sup>	63.59 <sup>295</sup>	54.347 <sup>65</sup>	58.00 <sup>54</sup>
Feb. 9.5	7.805 <sup>6</sup>	35.86 <sup>22</sup>	11.139 <sup>6</sup>	42.36 <sup>8</sup>	25.282 <sup>30</sup>	66.54 <sup>271</sup>	54.412 <sup>8</sup>	58.54 <sup>70</sup>
19.4	7.799 <sup>55</sup>	36.08 <sup>34</sup>	11.145 <sup>43</sup>	42.44 <sup>22</sup>	25.252 <sup>81</sup>	69.25 <sup>241</sup>	54.420 <sup>45</sup>	59.24 <sup>81</sup>
29.4	7.744 <sup>98</sup>	36.42 <sup>44</sup>	11.102 <sup>86</sup>	42.66 <sup>35</sup>	25.171 <sup>124</sup>	71.66 <sup>207</sup>	54.375 <sup>93</sup>	60.05 <sup>87</sup>
März 10.4	7.646 <sup>131</sup>	36.86 <sup>49</sup>	11.016 <sup>121</sup>	43.01 <sup>42</sup>	25.047 <sup>159</sup>	73.73 <sup>169</sup>	54.282 <sup>131</sup>	60.92 <sup>87</sup>
20.4	7.515 <sup>154</sup>	37.35 <sup>50</sup>	10.895 <sup>145</sup>	43.43 <sup>47</sup>	24.888 <sup>184</sup>	75.42 <sup>130</sup>	54.151 <sup>159</sup>	61.79 <sup>81</sup>
30.3	7.361 <sup>169</sup>	37.85 <sup>48</sup>	10.750 <sup>162</sup>	43.90 <sup>47</sup>	24.704 <sup>201</sup>	76.72 <sup>90</sup>	53.992 <sup>176</sup>	62.60 <sup>73</sup>
Apr. 9.3	7.192 <sup>173</sup>	38.33 <sup>44</sup>	10.588 <sup>167</sup>	44.37 <sup>46</sup>	24.503 <sup>207</sup>	77.62 <sup>48</sup>	53.816 <sup>184</sup>	63.33 <sup>60</sup>
19.3	7.019 <sup>168</sup>	38.77 <sup>39</sup>	10.421 <sup>163</sup>	44.83 <sup>41</sup>	24.296 <sup>207</sup>	78.10 <sup>7</sup>	53.632 <sup>181</sup>	63.93 <sup>46</sup>
29.3	6.851 <sup>153</sup>	39.16 <sup>30</sup>	10.258 <sup>153</sup>	45.24 <sup>37</sup>	24.089 <sup>197</sup>	78.17 <sup>34</sup>	53.451 <sup>169</sup>	64.39 <sup>29</sup>
Mai 9.2	6.698 <sup>134</sup>	39.46 <sup>22</sup>	10.105 <sup>134</sup>	45.61 <sup>30</sup>	23.892 <sup>180</sup>	77.83 <sup>73</sup>	53.282 <sup>150</sup>	64.68 <sup>13</sup>
19.2	6.564 <sup>108</sup>	39.68 <sup>15</sup>	9.971 <sup>111</sup>	45.91 <sup>24</sup>	23.712 <sup>160</sup>	77.10 <sup>110</sup>	53.132 <sup>125</sup>	64.81 <sup>3</sup>
29.2	6.456 <sup>79</sup>	39.83 <sup>7</sup>	9.860 <sup>84</sup>	46.15 <sup>18</sup>	23.552 <sup>134</sup>	76.00 <sup>144</sup>	53.007 <sup>96</sup>	64.78 <sup>19</sup>
Juni 8.1	6.377 <sup>47</sup>	39.90 <sup>0</sup>	9.776 <sup>55</sup>	46.33 <sup>10</sup>	23.418 <sup>104</sup>	74.56 <sup>175</sup>	52.911 <sup>64</sup>	64.59 <sup>33</sup>
18.1	6.330 <sup>14</sup>	39.90 <sup>7</sup>	9.721 <sup>24</sup>	46.43 <sup>4</sup>	23.314 <sup>72</sup>	72.81 <sup>200</sup>	52.847 <sup>30</sup>	64.26 <sup>47</sup>
28.1	6.316 <sup>18</sup>	39.83 <sup>15</sup>	9.697 <sup>7</sup>	46.47 <sup>3</sup>	23.242 <sup>39</sup>	70.81 <sup>221</sup>	52.817 <sup>5</sup>	63.79 <sup>59</sup>
Juli 8.1	6.334 <sup>51</sup>	39.68 <sup>22</sup>	9.704 <sup>39</sup>	46.44 <sup>11</sup>	23.203 <sup>4</sup>	68.60 <sup>234</sup>	52.822 <sup>39</sup>	63.20 <sup>71</sup>
18.0	6.385 <sup>83</sup>	39.46 <sup>30</sup>	9.743 <sup>70</sup>	46.33 <sup>19</sup>	23.199 <sup>33</sup>	66.26 <sup>241</sup>	52.861 <sup>72</sup>	62.49 <sup>81</sup>
28.0	6.468 <sup>114</sup>	39.16 <sup>39</sup>	9.813 <sup>99</sup>	46.14 <sup>29</sup>	23.232 <sup>69</sup>	63.85 <sup>239</sup>	52.933 <sup>106</sup>	61.68 <sup>91</sup>
Aug. 7.0	6.582 <sup>143</sup>	38.77 <sup>49</sup>	9.912 <sup>129</sup>	45.85 <sup>40</sup>	23.301 <sup>106</sup>	61.46 <sup>229</sup>	53.039 <sup>137</sup>	60.77 <sup>101</sup>
17.0	6.725 <sup>171</sup>	38.28 <sup>59</sup>	10.041 <sup>157</sup>	45.45 <sup>52</sup>	23.407 <sup>143</sup>	59.17 <sup>210</sup>	53.176 <sup>168</sup>	59.76 <sup>110</sup>
26.9	6.896 <sup>198</sup>	37.69 <sup>71</sup>	10.198 <sup>185</sup>	44.93 <sup>64</sup>	23.550 <sup>179</sup>	57.07 <sup>184</sup>	53.344 <sup>198</sup>	58.66 <sup>119</sup>
Sept. 5.9	7.094 <sup>224</sup>	36.98 <sup>84</sup>	10.383 <sup>211</sup>	44.29 <sup>80</sup>	23.729 <sup>213</sup>	55.23 <sup>148</sup>	53.542 <sup>227</sup>	57.47 <sup>127</sup>
15.9	7.318 <sup>249</sup>	36.14 <sup>96</sup>	10.594 <sup>237</sup>	43.49 <sup>93</sup>	23.942 <sup>246</sup>	53.75 <sup>106</sup>	53.769 <sup>254</sup>	56.20 <sup>134</sup>
25.8	7.567 <sup>272</sup>	35.18 <sup>107</sup>	10.831 <sup>261</sup>	42.56 <sup>108</sup>	24.188 <sup>276</sup>	52.69 <sup>58</sup>	54.023 <sup>281</sup>	54.86 <sup>139</sup>
Okt. 5.8	7.839 <sup>292</sup>	34.11 <sup>118</sup>	11.092 <sup>283</sup>	41.48 <sup>121</sup>	24.464 <sup>301</sup>	52.11 <sup>6</sup>	54.304 <sup>304</sup>	53.47 <sup>143</sup>
15.8	8.131 <sup>309</sup>	32.93 <sup>126</sup>	11.375 <sup>302</sup>	40.27 <sup>132</sup>	24.765 <sup>321</sup>	52.05 <sup>49</sup>	54.608 <sup>323</sup>	52.04 <sup>142</sup>
25.8	8.440 <sup>321</sup>	31.67 <sup>132</sup>	11.677 <sup>316</sup>	38.95 <sup>139</sup>	25.086 <sup>335</sup>	52.54 <sup>104</sup>	54.931 <sup>339</sup>	50.62 <sup>139</sup>
Nov. 4.7	8.761 <sup>327</sup>	30.35 <sup>132</sup>	11.993 <sup>324</sup>	37.56 <sup>143</sup>	25.421 <sup>339</sup>	53.58 <sup>157</sup>	55.270 <sup>348</sup>	49.23 <sup>130</sup>
14.7	9.088 <sup>326</sup>	29.03 <sup>128</sup>	12.317 <sup>325</sup>	36.13 <sup>141</sup>	25.760 <sup>335</sup>	55.15 <sup>204</sup>	55.618 <sup>349</sup>	47.93 <sup>119</sup>
24.7	9.414 <sup>316</sup>	27.75 <sup>120</sup>	12.642 <sup>316</sup>	34.72 <sup>136</sup>	26.095 <sup>321</sup>	57.19 <sup>245</sup>	55.967 <sup>341</sup>	46.74 <sup>101</sup>
Dez. 4.7	9.730 <sup>297</sup>	26.55 <sup>107</sup>	12.958 <sup>300</sup>	33.36 <sup>124</sup>	26.416 <sup>296</sup>	59.64 <sup>280</sup>	56.308 <sup>323</sup>	45.73 <sup>81</sup>
14.6	10.027 <sup>267</sup>	25.48 <sup>90</sup>	13.258 <sup>272</sup>	32.12 <sup>108</sup>	26.712 <sup>262</sup>	62.44 <sup>303</sup>	56.631 <sup>294</sup>	44.92 <sup>56</sup>
24.6	10.294 <sup>229</sup>	24.58 <sup>70</sup>	13.530 <sup>237</sup>	31.04 <sup>89</sup>	26.974 <sup>218</sup>	65.47 <sup>317</sup>	56.925 <sup>257</sup>	44.36 <sup>31</sup>
34.6	10.523	23.88	13.767	30.15	27.192	68.64	57.182	44.05
Mittl. Ort sec $\delta$ , tg $\delta$	5.128 1.069	49.91 +0.378	8.489 1.054	57.11 +0.334	22.616 1.191	50.34 -0.647	51.612 1.144	72.46 +0.556

Mittlere Zeit Greenw.	330) δ Argus		334) ζ Hydrae		336) ε Carinae		335) ι Ursae maj.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	8 <sup>h</sup> 42 <sup>m</sup>	-54° 24'	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	32.512 <sup>216</sup>	54.45 <sup>370</sup>	11.993 <sup>210</sup>	52.04 <sup>150</sup>	17.31 <sup>25</sup>	17.18 <sup>371</sup>	46.855 <sup>296</sup>	66.14 <sup>83</sup>
10.6	32.728 <sup>142</sup>	58.15 <sup>378</sup>	12.203 <sup>164</sup>	50.54 <sup>132</sup>	17.56 <sup>17</sup>	20.89 <sup>383</sup>	47.151 <sup>234</sup>	66.97 <sup>116</sup>
20.5	32.870 <sup>65</sup>	61.93 <sup>376</sup>	12.367 <sup>115</sup>	49.22 <sup>111</sup>	17.73 <sup>7</sup>	24.72 <sup>385</sup>	47.385 <sup>163</sup>	68.13 <sup>143</sup>
30.5	32.935 <sup>12</sup>	65.69 <sup>363</sup>	12.482 <sup>64</sup>	48.11 <sup>90</sup>	17.80 <sup>0</sup>	28.57 <sup>377</sup>	47.548 <sup>88</sup>	69.56 <sup>164</sup>
Feb. 9.5	32.923 <sup>84</sup>	69.32 <sup>341</sup>	12.546 <sup>14</sup>	47.21 <sup>67</sup>	17.80 <sup>10</sup>	32.34 <sup>358</sup>	47.636 <sup>15</sup>	71.20 <sup>176</sup>
19.5	32.839 <sup>151</sup>	72.73 <sup>312</sup>	12.560 <sup>34</sup>	46.54 <sup>45</sup>	17.70 <sup>17</sup>	35.92 <sup>332</sup>	47.651 <sup>55</sup>	72.96 <sup>180</sup>
29.4	32.688 <sup>209</sup>	75.85 <sup>277</sup>	12.526 <sup>74</sup>	46.09 <sup>26</sup>	17.53 <sup>23</sup>	39.24 <sup>298</sup>	47.596 <sup>118</sup>	74.76 <sup>176</sup>
März 10.4	32.479 <sup>256</sup>	78.62 <sup>236</sup>	12.452 <sup>108</sup>	45.83 <sup>9</sup>	17.30 <sup>30</sup>	42.22 <sup>260</sup>	47.478 <sup>171</sup>	76.52 <sup>162</sup>
20.4	32.223 <sup>292</sup>	80.98 <sup>191</sup>	12.344 <sup>133</sup>	45.74 <sup>6</sup>	17.00 <sup>34</sup>	44.82 <sup>215</sup>	47.307 <sup>211</sup>	78.14 <sup>142</sup>
30.3	31.931 <sup>317</sup>	82.89 <sup>143</sup>	12.211 <sup>149</sup>	45.80 <sup>18</sup>	16.66 <sup>37</sup>	46.97 <sup>168</sup>	47.096 <sup>239</sup>	79.56 <sup>117</sup>
Apr. 9.3	31.614 <sup>330</sup>	84.32 <sup>94</sup>	12.062 <sup>155</sup>	45.98 <sup>29</sup>	16.29 <sup>39</sup>	48.65 <sup>119</sup>	46.857 <sup>253</sup>	80.73 <sup>87</sup>
19.3	31.284 <sup>332</sup>	85.26 <sup>43</sup>	11.907 <sup>155</sup>	46.27 <sup>37</sup>	15.90 <sup>40</sup>	49.84 <sup>66</sup>	46.604 <sup>255</sup>	81.60 <sup>54</sup>
29.3	30.952 <sup>324</sup>	85.69 <sup>8</sup>	11.752 <sup>145</sup>	46.64 <sup>43</sup>	15.50 <sup>39</sup>	50.50 <sup>14</sup>	46.349 <sup>243</sup>	82.14 <sup>19</sup>
Mai 9.2	30.628 <sup>306</sup>	85.61 <sup>59</sup>	11.607 <sup>130</sup>	47.07 <sup>50</sup>	15.11 <sup>38</sup>	50.64 <sup>39</sup>	46.106 <sup>223</sup>	82.33 <sup>15</sup>
19.2	30.322 <sup>281</sup>	85.02 <sup>107</sup>	11.477 <sup>110</sup>	47.57 <sup>54</sup>	14.73 <sup>35</sup>	50.25 <sup>89</sup>	45.883 <sup>194</sup>	82.18 <sup>49</sup>
29.2	30.041 <sup>249</sup>	83.95 <sup>153</sup>	11.367 <sup>87</sup>	48.11 <sup>58</sup>	14.38 <sup>32</sup>	49.36 <sup>138</sup>	45.689 <sup>158</sup>	81.69 <sup>80</sup>
Juni 8.2	29.792 <sup>210</sup>	82.42 <sup>193</sup>	11.280 <sup>61</sup>	48.69 <sup>60</sup>	14.06 <sup>27</sup>	47.98 <sup>182</sup>	45.531 <sup>117</sup>	80.89 <sup>108</sup>
18.1	29.582 <sup>166</sup>	80.49 <sup>230</sup>	11.219 <sup>32</sup>	49.29 <sup>60</sup>	13.79 <sup>23</sup>	46.16 <sup>222</sup>	45.414 <sup>75</sup>	79.81 <sup>134</sup>
28.1	29.416 <sup>117</sup>	78.19 <sup>259</sup>	11.187 <sup>5</sup>	49.89 <sup>59</sup>	13.56 <sup>18</sup>	43.94 <sup>255</sup>	45.339 <sup>29</sup>	78.47 <sup>156</sup>
Juli 8.1	29.299 <sup>65</sup>	75.60 <sup>281</sup>	11.182 <sup>25</sup>	50.48 <sup>56</sup>	13.38 <sup>11</sup>	41.39 <sup>280</sup>	45.310 <sup>17</sup>	76.91 <sup>175</sup>
18.0	29.234 <sup>10</sup>	72.79 <sup>295</sup>	11.207 <sup>53</sup>	51.04 <sup>50</sup>	13.27 <sup>5</sup>	38.59 <sup>299</sup>	45.327 <sup>62</sup>	75.16 <sup>190</sup>
28.0	29.224 <sup>47</sup>	69.84 <sup>299</sup>	11.260 <sup>81</sup>	51.54 <sup>42</sup>	13.22 <sup>2</sup>	35.60 <sup>306</sup>	45.389 <sup>107</sup>	73.26 <sup>201</sup>
Aug. 7.0	29.271 <sup>105</sup>	66.85 <sup>294</sup>	11.341 <sup>109</sup>	51.96 <sup>29</sup>	13.24 <sup>8</sup>	32.54 <sup>304</sup>	45.496 <sup>151</sup>	71.25 <sup>209</sup>
17.0	29.376 <sup>162</sup>	63.91 <sup>277</sup>	11.450 <sup>138</sup>	52.25 <sup>15</sup>	13.32 <sup>16</sup>	29.50 <sup>292</sup>	45.647 <sup>193</sup>	69.16 <sup>214</sup>
26.9	29.538 <sup>220</sup>	61.14 <sup>251</sup>	11.588 <sup>164</sup>	52.40 <sup>3</sup>	13.48 <sup>23</sup>	26.58 <sup>269</sup>	45.840 <sup>233</sup>	67.02 <sup>215</sup>
Sept. 5.9	29.758 <sup>274</sup>	58.63 <sup>215</sup>	11.752 <sup>191</sup>	52.37 <sup>24</sup>	13.71 <sup>29</sup>	23.89 <sup>234</sup>	46.073 <sup>273</sup>	64.87 <sup>213</sup>
15.9	30.032 <sup>324</sup>	56.48 <sup>168</sup>	11.943 <sup>217</sup>	52.13 <sup>47</sup>	14.00 <sup>36</sup>	21.55 <sup>192</sup>	46.346 <sup>310</sup>	62.74 <sup>208</sup>
25.9	30.356 <sup>368</sup>	54.80 <sup>116</sup>	12.160 <sup>243</sup>	51.66 <sup>71</sup>	14.36 <sup>41</sup>	19.63 <sup>139</sup>	46.656 <sup>345</sup>	60.66 <sup>198</sup>
Okt. 5.8	30.724 <sup>404</sup>	53.64 <sup>57</sup>	12.403 <sup>265</sup>	50.95 <sup>96</sup>	14.77 <sup>46</sup>	18.24 <sup>81</sup>	47.001 <sup>377</sup>	58.68 <sup>184</sup>
15.8	31.128 <sup>431</sup>	53.07 <sup>7</sup>	12.668 <sup>285</sup>	49.99 <sup>118</sup>	15.23 <sup>49</sup>	17.43 <sup>17</sup>	47.378 <sup>403</sup>	56.84 <sup>166</sup>
25.8	31.559 <sup>446</sup>	53.14 <sup>71</sup>	12.953 <sup>301</sup>	48.81 <sup>139</sup>	15.72 <sup>51</sup>	17.26 <sup>48</sup>	47.781 <sup>424</sup>	55.18 <sup>144</sup>
Nov. 4.7	32.005 <sup>448</sup>	53.85 <sup>135</sup>	13.254 <sup>310</sup>	47.42 <sup>156</sup>	16.23 <sup>52</sup>	17.74 <sup>115</sup>	48.205 <sup>436</sup>	53.74 <sup>116</sup>
14.7	32.453 <sup>437</sup>	55.20 <sup>196</sup>	13.564 <sup>312</sup>	45.86 <sup>168</sup>	16.75 <sup>50</sup>	18.89 <sup>177</sup>	48.641 <sup>440</sup>	52.58 <sup>85</sup>
24.7	32.890 <sup>411</sup>	57.16 <sup>249</sup>	13.876 <sup>305</sup>	44.18 <sup>175</sup>	17.25 <sup>48</sup>	20.66 <sup>234</sup>	49.081 <sup>431</sup>	51.73 <sup>50</sup>
Dez. 4.7	33.301 <sup>371</sup>	59.65 <sup>295</sup>	14.181 <sup>291</sup>	42.43 <sup>174</sup>	17.73 <sup>43</sup>	23.00 <sup>284</sup>	49.512 <sup>410</sup>	51.23 <sup>13</sup>
14.6	33.672 <sup>319</sup>	62.60 <sup>332</sup>	14.472 <sup>265</sup>	40.69 <sup>168</sup>	18.16 <sup>37</sup>	25.84 <sup>326</sup>	49.922 <sup>376</sup>	51.10 <sup>25</sup>
24.6	33.991 <sup>257</sup>	65.92 <sup>357</sup>	14.737 <sup>232</sup>	39.01 <sup>158</sup>	18.53 <sup>30</sup>	29.10 <sup>355</sup>	50.298 <sup>330</sup>	51.35 <sup>64</sup>
34.6	34.248	69.49	14.969	37.43	18.83	32.65	50.628	51.99
Mittl. Ort	29.687	54.15	9.993	62.95	14.16	18.29	44.313	84.07
sec δ, tg δ	1.719	-1.398	1.006	+0.109	2.021	-1.756	1.505	+1.125

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	337) α Cancri		339) 10 Ursae maj.		341) α Ursae maj.		343) α Volantis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	8 <sup>h</sup> 54 <sup>m</sup>	+12° 9'	8 <sup>h</sup> 55 <sup>m</sup>	+42° 5'	8 <sup>h</sup> 58 <sup>m</sup>	+47° 27'	9 <sup>h</sup> 1 <sup>m</sup>	-66° 4'
Jan. 0.6	8.855 <sup>217</sup>	53.50 <sup>119</sup>	29.577 <sup>276</sup>	44.19 <sup>48</sup>	12.782 <sup>299</sup>	67.83 <sup>75</sup>	14.86 <sup>30</sup>	33.48 <sup>369</sup>
10.6	9.072 <sup>172</sup>	52.31 <sup>98</sup>	29.853 <sup>217</sup>	44.67 <sup>80</sup>	13.081 <sup>237</sup>	68.58 <sup>110</sup>	15.16 <sup>20</sup>	37.17 <sup>385</sup>
20.5	9.244 <sup>123</sup>	51.33 <sup>75</sup>	30.070 <sup>154</sup>	45.47 <sup>107</sup>	13.318 <sup>169</sup>	69.68 <sup>137</sup>	15.36 <sup>9</sup>	41.02 <sup>391</sup>
30.5	9.367 <sup>70</sup>	50.58 <sup>53</sup>	30.224 <sup>87</sup>	46.54 <sup>129</sup>	13.487 <sup>95</sup>	71.05 <sup>159</sup>	15.45 <sup>1</sup>	44.93 <sup>385</sup>
Feb. 9.5	9.437 <sup>19</sup>	50.05 <sup>32</sup>	30.311 <sup>20</sup>	47.83 <sup>144</sup>	13.582 <sup>23</sup>	72.64 <sup>172</sup>	15.44 <sup>11</sup>	48.78 <sup>371</sup>
19.5	9.456 <sup>30</sup>	49.73 <sup>12</sup>	30.331 <sup>44</sup>	49.27 <sup>151</sup>	13.605 <sup>47</sup>	74.36 <sup>178</sup>	15.33 <sup>20</sup>	52.49 <sup>347</sup>
29.4	9.426 <sup>72</sup>	49.61 <sup>5</sup>	30.287 <sup>100</sup>	50.78 <sup>150</sup>	13.558 <sup>109</sup>	76.14 <sup>175</sup>	15.13 <sup>29</sup>	55.96 <sup>316</sup>
März 10.4	9.354 <sup>106</sup>	49.66 <sup>18</sup>	30.187 <sup>147</sup>	52.28 <sup>143</sup>	13.449 <sup>161</sup>	77.89 <sup>153</sup>	14.84 <sup>35</sup>	59.12 <sup>279</sup>
20.4	9.248 <sup>133</sup>	49.84 <sup>29</sup>	30.040 <sup>184</sup>	53.71 <sup>127</sup>	13.288 <sup>203</sup>	79.52 <sup>144</sup>	14.49 <sup>41</sup>	61.91 <sup>236</sup>
30.3	9.115 <sup>150</sup>	50.13 <sup>35</sup>	29.856 <sup>208</sup>	54.98 <sup>108</sup>	13.085 <sup>230</sup>	80.96 <sup>120</sup>	14.08 <sup>46</sup>	64.27 <sup>189</sup>
Apr. 9.3	8.965 <sup>157</sup>	50.48 <sup>40</sup>	29.648 <sup>221</sup>	56.06 <sup>83</sup>	12.855 <sup>245</sup>	82.16 <sup>91</sup>	13.62 <sup>48</sup>	66.16 <sup>140</sup>
19.3	8.808 <sup>156</sup>	50.88 <sup>43</sup>	29.427 <sup>222</sup>	56.89 <sup>56</sup>	12.610 <sup>247</sup>	83.07 <sup>59</sup>	13.14 <sup>49</sup>	67.56 <sup>87</sup>
29.3	8.652 <sup>148</sup>	51.31 <sup>43</sup>	29.205 <sup>212</sup>	57.45 <sup>27</sup>	12.363 <sup>238</sup>	83.66 <sup>25</sup>	12.65 <sup>50</sup>	68.43 <sup>35</sup>
Mai 9.2	8.504 <sup>132</sup>	51.74 <sup>44</sup>	28.993 <sup>192</sup>	57.72 <sup>2</sup>	12.125 <sup>218</sup>	83.91 <sup>9</sup>	12.15 <sup>47</sup>	68.78 <sup>20</sup>
19.2	8.372 <sup>112</sup>	52.18 <sup>42</sup>	28.801 <sup>167</sup>	57.70 <sup>30</sup>	11.907 <sup>191</sup>	83.82 <sup>42</sup>	11.68 <sup>46</sup>	68.58 <sup>72</sup>
29.2	8.260 <sup>88</sup>	52.60 <sup>40</sup>	28.634 <sup>135</sup>	57.40 <sup>58</sup>	11.716 <sup>156</sup>	83.40 <sup>73</sup>	11.22 <sup>42</sup>	67.86 <sup>122</sup>
Juni 8.2	8.172 <sup>62</sup>	53.00 <sup>38</sup>	28.499 <sup>100</sup>	56.82 <sup>82</sup>	11.560 <sup>118</sup>	82.67 <sup>102</sup>	10.80 <sup>37</sup>	66.64 <sup>169</sup>
18.1	8.110 <sup>34</sup>	53.38 <sup>34</sup>	28.399 <sup>61</sup>	56.00 <sup>105</sup>	11.442 <sup>76</sup>	81.65 <sup>127</sup>	10.43 <sup>32</sup>	64.95 <sup>211</sup>
28.1	8.076 <sup>5</sup>	53.72 <sup>29</sup>	28.338 <sup>20</sup>	54.95 <sup>125</sup>	11.366 <sup>32</sup>	80.38 <sup>150</sup>	10.11 <sup>25</sup>	62.84 <sup>248</sup>
Juli 8.1	8.071 <sup>24</sup>	54.01 <sup>24</sup>	28.318 <sup>19</sup>	53.70 <sup>142</sup>	11.334 <sup>13</sup>	78.88 <sup>169</sup>	9.86 <sup>17</sup>	60.36 <sup>277</sup>
18.0	8.095 <sup>53</sup>	54.25 <sup>15</sup>	28.337 <sup>59</sup>	52.28 <sup>156</sup>	11.347 <sup>57</sup>	77.19 <sup>184</sup>	9.69 <sup>10</sup>	57.59 <sup>298</sup>
28.0	8.148 <sup>82</sup>	54.40 <sup>6</sup>	28.396 <sup>99</sup>	50.72 <sup>169</sup>	11.404 <sup>100</sup>	75.35 <sup>197</sup>	9.59 <sup>2</sup>	54.61 <sup>309</sup>
Aug. 7.0	8.230 <sup>110</sup>	54.46 <sup>6</sup>	28.495 <sup>137</sup>	49.03 <sup>178</sup>	11.504 <sup>144</sup>	73.38 <sup>266</sup>	9.57 <sup>7</sup>	51.52 <sup>311</sup>
17.0	8.340 <sup>139</sup>	54.40 <sup>19</sup>	28.632 <sup>175</sup>	47.25 <sup>184</sup>	11.648 <sup>185</sup>	71.32 <sup>211</sup>	9.64 <sup>16</sup>	48.41 <sup>301</sup>
26.9	8.479 <sup>166</sup>	54.21 <sup>36</sup>	28.807 <sup>211</sup>	45.41 <sup>189</sup>	11.833 <sup>225</sup>	69.21 <sup>214</sup>	9.80 <sup>25</sup>	45.40 <sup>281</sup>
Sept. 5.9	8.645 <sup>193</sup>	53.85 <sup>54</sup>	29.018 <sup>246</sup>	43.52 <sup>191</sup>	12.058 <sup>264</sup>	67.07 <sup>213</sup>	10.05 <sup>33</sup>	42.59 <sup>250</sup>
15.9	8.838 <sup>220</sup>	53.31 <sup>73</sup>	29.264 <sup>279</sup>	41.61 <sup>190</sup>	12.322 <sup>302</sup>	64.94 <sup>208</sup>	10.38 <sup>41</sup>	40.09 <sup>209</sup>
25.9	9.058 <sup>245</sup>	52.58 <sup>93</sup>	29.543 <sup>312</sup>	39.71 <sup>185</sup>	12.624 <sup>336</sup>	62.86 <sup>200</sup>	10.79 <sup>48</sup>	38.00 <sup>158</sup>
Okt. 5.8	9.303 <sup>269</sup>	51.65 <sup>112</sup>	29.855 <sup>341</sup>	37.86 <sup>177</sup>	12.960 <sup>368</sup>	60.86 <sup>188</sup>	11.27 <sup>54</sup>	36.42 <sup>100</sup>
15.8	9.572 <sup>289</sup>	50.53 <sup>129</sup>	30.196 <sup>365</sup>	36.09 <sup>165</sup>	13.328 <sup>396</sup>	58.98 <sup>170</sup>	11.81 <sup>58</sup>	35.42 <sup>38</sup>
25.8	9.861 <sup>305</sup>	49.24 <sup>143</sup>	30.561 <sup>385</sup>	34.44 <sup>148</sup>	13.724 <sup>417</sup>	57.28 <sup>149</sup>	12.39 <sup>60</sup>	35.04 <sup>29</sup>
Nov. 4.7	10.166 <sup>316</sup>	47.81 <sup>154</sup>	30.946 <sup>398</sup>	32.96 <sup>128</sup>	14.141 <sup>431</sup>	55.79 <sup>122</sup>	12.99 <sup>62</sup>	35.33 <sup>96</sup>
14.7	10.482 <sup>318</sup>	46.27 <sup>160</sup>	31.344 <sup>401</sup>	31.68 <sup>101</sup>	14.572 <sup>435</sup>	54.57 <sup>92</sup>	13.61 <sup>60</sup>	36.29 <sup>161</sup>
24.7	10.800 <sup>313</sup>	44.67 <sup>160</sup>	31.745 <sup>395</sup>	30.67 <sup>72</sup>	15.007 <sup>428</sup>	53.65 <sup>58</sup>	14.21 <sup>56</sup>	37.90 <sup>219</sup>
Dez. 4.7	11.113 <sup>298</sup>	43.07 <sup>155</sup>	32.140 <sup>376</sup>	29.95 <sup>40</sup>	15.435 <sup>408</sup>	53.07 <sup>20</sup>	14.77 <sup>51</sup>	40.09 <sup>273</sup>
14.6	11.411 <sup>274</sup>	41.52 <sup>144</sup>	32.516 <sup>346</sup>	29.55 <sup>5</sup>	15.843 <sup>376</sup>	52.87 <sup>18</sup>	15.28 <sup>45</sup>	42.82 <sup>317</sup>
24.6	11.685 <sup>240</sup>	40.08 <sup>128</sup>	32.862 <sup>304</sup>	29.50 <sup>30</sup>	16.219 <sup>331</sup>	53.05 <sup>55</sup>	15.73 <sup>36</sup>	45.99 <sup>351</sup>
34.6	11.925	38.80	33.166	29.80	16.550	53.60	16.09	49.50
Mittl. Ort sec δ, tg δ	6.846 1.023	65.60 +0.216	27.221 1.348	61.41 +0.904	10.303 1.480	85.89 +1.090	11.24 2.466	35.76 -2.254

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.
1920	9 <sup>h</sup> 3 <sup>m</sup>	+67° 27'	9 <sup>h</sup> 5 <sup>m</sup>	-43° 6'	9 <sup>h</sup> 10 <sup>m</sup>	+2° 38'	9 <sup>h</sup> 12 <sup>m</sup>	-69° 23'
Jan. 0.6	26.13 <sup>48</sup>	18.02 <sup>166</sup>	5.470 <sup>229</sup>	33.24 <sup>346</sup>	14.140 <sup>223</sup>	58.76 <sup>175</sup>	23.69 <sup>35</sup>	11.68 <sup>362</sup>
10.6	26.61 <sup>37</sup>	19.68 <sup>204</sup>	5.699 <sup>170</sup>	36.70 <sup>353</sup>	14.363 <sup>180</sup>	57.01 <sup>159</sup>	24.04 <sup>25</sup>	15.30 <sup>382</sup>
20.6	26.98 <sup>25</sup>	21.72 <sup>234</sup>	5.869 <sup>108</sup>	40.23 <sup>351</sup>	14.543 <sup>132</sup>	55.42 <sup>138</sup>	24.29 <sup>13</sup>	19.12 <sup>391</sup>
30.5	27.23 <sup>14</sup>	24.06 <sup>252</sup>	5.977 <sup>45</sup>	43.74 <sup>340</sup>	14.675 <sup>81</sup>	54.04 <sup>116</sup>	24.42 <sup>1</sup>	23.03 <sup>389</sup>
Feb. 9.5	27.37 <sup>1</sup>	26.58 <sup>261</sup>	6.022 <sup>17</sup>	47.14 <sup>319</sup>	14.756 <sup>32</sup>	52.88 <sup>92</sup>	24.43 <sup>11</sup>	26.92 <sup>378</sup>
19.5	27.38 <sup>10</sup>	29.19 <sup>258</sup>	6.005 <sup>73</sup>	50.33 <sup>293</sup>	14.788 <sup>16</sup>	51.96 <sup>69</sup>	24.32 <sup>21</sup>	30.70 <sup>357</sup>
29.4	27.28 <sup>22</sup>	31.77 <sup>245</sup>	5.932 <sup>124</sup>	53.26 <sup>259</sup>	14.772 <sup>58</sup>	51.27 <sup>47</sup>	24.11 <sup>31</sup>	34.27 <sup>330</sup>
März 10.4	27.06 <sup>30</sup>	34.22 <sup>221</sup>	5.808 <sup>166</sup>	55.85 <sup>223</sup>	14.714 <sup>93</sup>	50.80 <sup>27</sup>	23.80 <sup>40</sup>	37.57 <sup>294</sup>
20.4	26.76 <sup>38</sup>	36.43 <sup>188</sup>	5.642 <sup>199</sup>	58.08 <sup>183</sup>	14.621 <sup>120</sup>	50.53 <sup>9</sup>	23.40 <sup>45</sup>	40.51 <sup>254</sup>
30.4	26.38 <sup>44</sup>	38.31 <sup>149</sup>	5.443 <sup>222</sup>	59.91 <sup>139</sup>	14.501 <sup>138</sup>	50.44 <sup>6</sup>	22.95 <sup>52</sup>	43.05 <sup>209</sup>
Apr. 9.3	25.94 <sup>47</sup>	39.80 <sup>104</sup>	5.221 <sup>235</sup>	61.30 <sup>94</sup>	14.363 <sup>148</sup>	50.50 <sup>21</sup>	22.43 <sup>54</sup>	45.14 <sup>160</sup>
19.3	25.47 <sup>48</sup>	40.84 <sup>56</sup>	4.986 <sup>241</sup>	62.24 <sup>48</sup>	14.215 <sup>149</sup>	50.71 <sup>33</sup>	21.89 <sup>57</sup>	46.74 <sup>108</sup>
29.3	24.99 <sup>48</sup>	41.40 <sup>7</sup>	4.745 <sup>236</sup>	62.72 <sup>2</sup>	14.066 <sup>143</sup>	51.04 <sup>43</sup>	21.32 <sup>58</sup>	47.82 <sup>55</sup>
Mai 9.3	24.51 <sup>44</sup>	41.47 <sup>41</sup>	4.509 <sup>225</sup>	62.74 <sup>44</sup>	13.923 <sup>132</sup>	51.47 <sup>51</sup>	20.74 <sup>56</sup>	48.37 <sup>1</sup>
19.2	24.07 <sup>40</sup>	41.06 <sup>89</sup>	4.284 <sup>207</sup>	62.30 <sup>87</sup>	13.791 <sup>115</sup>	51.98 <sup>59</sup>	20.18 <sup>54</sup>	48.38 <sup>53</sup>
29.2	23.67 <sup>35</sup>	40.17 <sup>132</sup>	4.077 <sup>184</sup>	61.43 <sup>129</sup>	13.676 <sup>95</sup>	52.57 <sup>65</sup>	19.64 <sup>51</sup>	47.85 <sup>104</sup>
Juni 8.2	23.32 <sup>28</sup>	38.85 <sup>172</sup>	3.893 <sup>156</sup>	60.14 <sup>167</sup>	13.581 <sup>71</sup>	53.22 <sup>70</sup>	19.13 <sup>46</sup>	46.81 <sup>153</sup>
18.1	23.04 <sup>21</sup>	37.13 <sup>206</sup>	3.737 <sup>124</sup>	58.47 <sup>200</sup>	13.510 <sup>46</sup>	53.92 <sup>72</sup>	18.67 <sup>39</sup>	45.28 <sup>198</sup>
28.1	22.83 <sup>13</sup>	35.07 <sup>235</sup>	3.613 <sup>89</sup>	56.47 <sup>228</sup>	13.464 <sup>21</sup>	54.64 <sup>73</sup>	18.28 <sup>33</sup>	43.30 <sup>237</sup>
Juli 8.1	22.70 <sup>4</sup>	32.72 <sup>259</sup>	3.524 <sup>51</sup>	54.19 <sup>249</sup>	13.443 <sup>7</sup>	55.37 <sup>71</sup>	17.95 <sup>24</sup>	40.93 <sup>269</sup>
18.1	22.66 <sup>3</sup>	30.13 <sup>277</sup>	3.473 <sup>11</sup>	51.70 <sup>263</sup>	13.450 <sup>35</sup>	56.08 <sup>66</sup>	17.71 <sup>16</sup>	38.24 <sup>293</sup>
28.0	22.69 <sup>12</sup>	27.36 <sup>288</sup>	3.462 <sup>32</sup>	49.07 <sup>267</sup>	13.485 <sup>62</sup>	56.74 <sup>57</sup>	17.55 <sup>6</sup>	35.31 <sup>308</sup>
Aug. 7.0	22.81 <sup>20</sup>	24.48 <sup>295</sup>	3.494 <sup>75</sup>	46.40 <sup>264</sup>	13.547 <sup>89</sup>	57.31 <sup>46</sup>	17.49 <sup>4</sup>	32.23 <sup>313</sup>
17.0	23.01 <sup>28</sup>	21.53 <sup>295</sup>	3.569 <sup>120</sup>	43.76 <sup>250</sup>	13.636 <sup>118</sup>	57.77 <sup>31</sup>	17.53 <sup>14</sup>	29.10 <sup>308</sup>
26.9	23.29 <sup>35</sup>	18.58 <sup>289</sup>	3.689 <sup>164</sup>	41.26 <sup>228</sup>	13.754 <sup>146</sup>	58.08 <sup>12</sup>	17.67 <sup>25</sup>	26.02 <sup>290</sup>
Sept. 5.9	23.64 <sup>42</sup>	15.69 <sup>279</sup>	3.853 <sup>208</sup>	38.98 <sup>195</sup>	13.900 <sup>174</sup>	58.20 <sup>11</sup>	17.92 <sup>35</sup>	23.12 <sup>262</sup>
15.9	24.06 <sup>49</sup>	12.90 <sup>262</sup>	4.061 <sup>251</sup>	37.03 <sup>153</sup>	14.074 <sup>202</sup>	58.09 <sup>35</sup>	18.27 <sup>44</sup>	20.50 <sup>224</sup>
25.9	24.55 <sup>55</sup>	10.28 <sup>240</sup>	4.312 <sup>289</sup>	35.50 <sup>106</sup>	14.276 <sup>229</sup>	57.74 <sup>62</sup>	18.71 <sup>53</sup>	18.26 <sup>176</sup>
Okt. 5.8	25.10 <sup>61</sup>	7.88 <sup>212</sup>	4.601 <sup>323</sup>	34.44 <sup>51</sup>	14.505 <sup>254</sup>	57.12 <sup>89</sup>	19.24 <sup>59</sup>	16.50 <sup>120</sup>
15.8	25.71 <sup>64</sup>	5.76 <sup>180</sup>	4.924 <sup>350</sup>	33.93 <sup>7</sup>	14.759 <sup>277</sup>	56.23 <sup>115</sup>	19.83 <sup>65</sup>	15.30 <sup>59</sup>
25.8	26.35 <sup>68</sup>	3.96 <sup>141</sup>	5.274 <sup>370</sup>	34.00 <sup>67</sup>	15.036 <sup>296</sup>	55.08 <sup>141</sup>	20.48 <sup>68</sup>	14.71 <sup>8</sup>
Nov. 4.8	27.03 <sup>71</sup>	2.55 <sup>99</sup>	5.644 <sup>381</sup>	34.67 <sup>126</sup>	15.332 <sup>308</sup>	53.67 <sup>161</sup>	21.16 <sup>70</sup>	14.79 <sup>75</sup>
14.7	27.74 <sup>71</sup>	1.56 <sup>53</sup>	6.025 <sup>379</sup>	35.93 <sup>182</sup>	15.640 <sup>313</sup>	52.06 <sup>177</sup>	21.86 <sup>69</sup>	15.54 <sup>141</sup>
24.7	28.45 <sup>69</sup>	1.03 <sup>3</sup>	6.404 <sup>366</sup>	37.75 <sup>232</sup>	15.953 <sup>311</sup>	50.29 <sup>188</sup>	22.55 <sup>65</sup>	16.95 <sup>201</sup>
Dez. 4.7	29.14 <sup>66</sup>	1.00 <sup>47</sup>	6.770 <sup>341</sup>	40.07 <sup>276</sup>	16.264 <sup>298</sup>	48.41 <sup>192</sup>	23.20 <sup>59</sup>	18.96 <sup>258</sup>
14.6	29.80 <sup>61</sup>	1.47 <sup>97</sup>	7.111 <sup>306</sup>	42.83 <sup>309</sup>	16.562 <sup>275</sup>	46.49 <sup>189</sup>	23.79 <sup>52</sup>	21.54 <sup>304</sup>
24.6	30.41 <sup>52</sup>	2.44 <sup>142</sup>	7.417 <sup>259</sup>	45.92 <sup>334</sup>	16.837 <sup>244</sup>	44.60 <sup>181</sup>	24.31 <sup>42</sup>	24.58 <sup>342</sup>
34.6	30.93	3.86	7.676	49.26	17.081	42.79	24.73	28.00
Mittl. Ort sec $\delta$ , tg $\delta$	22.51 2.609	38.26 +2.410	3.092 1.370	32.48 -0.936	12.213 1.001	68.99 +0.046	19.69 2.840	15.06 -2.659



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	350) 83 Cancrī		352) 40 Lyncis		353) α Argus		354) α Hydrae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	9 <sup>h</sup> 14 <sup>m</sup>	+18° 2'	9 <sup>h</sup> 16 <sup>m</sup>	+34° 43'	9 <sup>h</sup> 19 <sup>m</sup>	-54° 40'	9 <sup>h</sup> 23 <sup>m</sup>	-8° 18'
Jan. 0.6	33.104 <sub>241</sub>	29.26 <sub>95</sub>	13.275 <sub>274</sub>	36.96 <sub>5</sub>	40.831 <sub>278</sub>	4.89 <sub>356</sub>	41.303 <sub>229</sub>	47.82 <sub>229</sub>
10.6	33.345 <sub>197</sub>	28.31 <sub>70</sub>	13.549 <sub>223</sub>	36.91 <sub>28</sub>	41.109 <sub>207</sub>	8.45 <sub>372</sub>	41.532 <sub>186</sub>	50.11 <sub>218</sub>
20.6	33.542 <sub>146</sub>	27.61 <sub>45</sub>	13.772 <sub>168</sub>	37.19 <sub>57</sub>	41.316 <sub>132</sub>	12.17 <sub>378</sub>	41.718 <sub>140</sub>	52.29 <sub>202</sub>
30.5	33.688 <sub>94</sub>	27.16 <sub>20</sub>	13.940 <sub>106</sub>	37.76 <sub>83</sub>	41.448 <sub>56</sub>	15.95 <sub>372</sub>	41.858 <sub>89</sub>	54.31 <sub>183</sub>
Feb. 9.5	33.782 <sub>41</sub>	26.96 <sub>2</sub>	14.046 <sub>46</sub>	38.59 <sub>103</sub>	41.504 <sub>18</sub>	19.67 <sub>357</sub>	41.947 <sub>39</sub>	56.14 <sub>159</sub>
19.5	33.823 <sub>10</sub>	26.98 <sub>22</sub>	14.092 <sub>12</sub>	39.62 <sub>118</sub>	41.486 <sub>88</sub>	23.24 <sub>335</sub>	41.986 <sub>8</sub>	57.73 <sub>134</sub>
29.5	33.813 <sub>55</sub>	27.20 <sub>38</sub>	14.080 <sub>66</sub>	40.80 <sub>125</sub>	41.398 <sub>150</sub>	26.59 <sub>306</sub>	41.978 <sub>50</sub>	59.07 <sub>108</sub>
März 10.4	33.758 <sub>94</sub>	27.58 <sub>48</sub>	14.014 <sub>110</sub>	42.05 <sub>125</sub>	41.248 <sub>204</sub>	29.65 <sub>270</sub>	41.928 <sub>86</sub>	60.15 <sub>82</sub>
20.4	33.664 <sub>123</sub>	28.06 <sub>56</sub>	13.904 <sub>146</sub>	43.30 <sub>119</sub>	41.044 <sub>240</sub>	32.35 <sub>229</sub>	41.842 <sub>113</sub>	60.97 <sub>57</sub>
30.4	33.541 <sub>143</sub>	28.62 <sub>58</sub>	13.758 <sub>171</sub>	44.49 <sub>107</sub>	40.797 <sub>287</sub>	34.64 <sub>185</sub>	41.729 <sub>134</sub>	61.54 <sub>33</sub>
Apr. 9.3	33.398 <sub>155</sub>	29.20 <sub>58</sub>	13.587 <sub>186</sub>	45.56 <sub>91</sub>	40.517 <sub>301</sub>	36.49 <sub>138</sub>	41.595 <sub>145</sub>	61.87 <sub>10</sub>
19.3	33.243 <sub>157</sub>	29.78 <sub>55</sub>	13.401 <sub>190</sub>	46.47 <sub>72</sub>	40.216 <sub>313</sub>	37.87 <sub>88</sub>	41.450 <sub>149</sub>	61.97 <sub>13</sub>
29.3	33.086 <sub>152</sub>	30.33 <sub>50</sub>	13.211 <sub>185</sub>	47.19 <sub>49</sub>	39.903 <sub>315</sub>	38.75 <sub>38</sub>	41.301 <sub>145</sub>	61.84 <sub>33</sub>
Mai 9.3	32.934 <sub>140</sub>	30.83 <sub>43</sub>	13.026 <sub>172</sub>	47.68 <sub>27</sub>	39.588 <sub>307</sub>	39.13 <sub>12</sub>	41.156 <sub>137</sub>	61.51 <sub>51</sub>
19.2	32.794 <sub>123</sub>	31.26 <sub>35</sub>	12.854 <sub>152</sub>	47.95 <sub>3</sub>	39.281 <sub>291</sub>	39.01 <sub>63</sub>	41.019 <sub>122</sub>	61.00 <sub>70</sub>
29.2	32.671 <sub>101</sub>	31.61 <sub>27</sub>	12.702 <sub>127</sub>	47.98 <sub>20</sub>	38.990 <sub>268</sub>	38.38 <sub>110</sub>	40.897 <sub>105</sub>	60.30 <sub>84</sub>
Juni 8.2	32.570 <sub>76</sub>	31.88 <sub>18</sub>	12.575 <sub>98</sub>	47.78 <sub>41</sub>	38.722 <sub>238</sub>	37.28 <sub>154</sub>	40.792 <sub>84</sub>	59.46 <sub>99</sub>
18.2	32.494 <sub>50</sub>	32.06 <sub>10</sub>	12.477 <sub>66</sub>	47.37 <sub>63</sub>	38.484 <sub>203</sub>	35.74 <sub>195</sub>	40.708 <sub>61</sub>	58.47 <sub>109</sub>
28.1	32.444 <sub>22</sub>	32.16 <sub>0</sub>	12.411 <sub>34</sub>	46.74 <sub>82</sub>	38.281 <sub>160</sub>	33.79 <sub>230</sub>	40.647 <sub>37</sub>	57.38 <sub>117</sub>
Juli 8.1	32.422 <sub>6</sub>	32.16 <sub>10</sub>	12.377 <sub>1</sub>	45.92 <sub>99</sub>	38.121 <sub>115</sub>	31.49 <sub>258</sub>	40.610 <sub>10</sub>	56.21 <sub>121</sub>
18.1	32.428 <sub>36</sub>	32.06 <sub>21</sub>	12.378 <sub>34</sub>	44.93 <sub>115</sub>	38.006 <sub>64</sub>	28.91 <sub>279</sub>	40.600 <sub>15</sub>	55.00 <sub>121</sub>
28.0	32.464 <sub>64</sub>	31.85 <sub>33</sub>	12.412 <sub>69</sub>	43.78 <sub>130</sub>	37.942 <sub>9</sub>	26.12 <sub>290</sub>	40.615 <sub>44</sub>	53.79 <sub>117</sub>
Aug. 7.0	32.528 <sub>93</sub>	31.52 <sub>46</sub>	12.481 <sub>102</sub>	42.48 <sub>143</sub>	37.933 <sub>47</sub>	23.22 <sub>292</sub>	40.659 <sub>71</sub>	52.62 <sub>106</sub>
17.0	32.621 <sub>122</sub>	31.06 <sub>59</sub>	12.583 <sub>137</sub>	41.05 <sub>153</sub>	37.980 <sub>107</sub>	20.30 <sub>285</sub>	40.730 <sub>101</sub>	51.56 <sub>92</sub>
27.0	32.743 <sub>151</sub>	30.47 <sub>74</sub>	12.720 <sub>170</sub>	39.52 <sub>164</sub>	38.087 <sub>166</sub>	17.45 <sub>265</sub>	40.831 <sub>130</sub>	50.64 <sub>72</sub>
Sept. 5.9	32.894 <sub>181</sub>	29.73 <sub>90</sub>	12.890 <sub>203</sub>	37.88 <sub>171</sub>	38.253 <sub>225</sub>	14.80 <sub>237</sub>	40.961 <sub>160</sub>	49.92 <sub>46</sub>
15.9	33.075 <sub>209</sub>	28.83 <sub>106</sub>	13.093 <sub>236</sub>	36.17 <sub>177</sub>	38.478 <sub>282</sub>	12.43 <sub>198</sub>	41.121 <sub>191</sub>	49.46 <sub>17</sub>
25.9	33.284 <sub>237</sub>	27.77 <sub>122</sub>	13.329 <sub>268</sub>	34.40 <sub>181</sub>	38.760 <sub>334</sub>	10.45 <sub>150</sub>	41.312 <sub>220</sub>	49.29 <sub>16</sub>
Okt. 5.9	33.521 <sub>264</sub>	26.55 <sub>136</sub>	13.597 <sub>298</sub>	32.59 <sub>180</sub>	39.094 <sub>381</sub>	8.95 <sub>96</sub>	41.532 <sub>247</sub>	49.45 <sub>52</sub>
15.8	33.785 <sub>288</sub>	25.19 <sub>149</sub>	13.895 <sub>324</sub>	30.79 <sub>176</sub>	39.475 <sub>417</sub>	7.99 <sub>35</sub>	41.779 <sub>272</sub>	49.97 <sub>87</sub>
25.8	34.073 <sub>307</sub>	23.70 <sub>157</sub>	14.219 <sub>346</sub>	29.03 <sub>168</sub>	39.892 <sub>445</sub>	7.64 <sub>29</sub>	42.051 <sub>293</sub>	50.84 <sub>122</sub>
Nov. 4.8	34.380 <sub>322</sub>	22.13 <sub>162</sub>	14.565 <sub>363</sub>	27.35 <sub>155</sub>	40.337 <sub>458</sub>	7.93 <sub>92</sub>	42.344 <sub>307</sub>	52.06 <sub>155</sub>
14.7	34.702 <sub>329</sub>	20.51 <sub>161</sub>	14.928 <sub>371</sub>	25.80 <sub>136</sub>	40.795 <sub>459</sub>	8.85 <sub>156</sub>	42.651 <sub>314</sub>	53.61 <sub>182</sub>
24.7	35.031 <sub>327</sub>	18.90 <sub>156</sub>	15.299 <sub>369</sub>	24.44 <sub>114</sub>	41.254 <sub>443</sub>	10.41 <sub>212</sub>	42.965 <sub>312</sub>	55.43 <sub>204</sub>
Dez. 4.7	35.358 <sub>315</sub>	17.34 <sub>144</sub>	15.668 <sub>357</sub>	23.30 <sub>86</sub>	41.697 <sub>414</sub>	12.53 <sub>263</sub>	43.277 <sub>301</sub>	57.47 <sub>221</sub>
14.7	35.673 <sub>294</sub>	15.90 <sub>128</sub>	16.025 <sub>333</sub>	22.44 <sub>55</sub>	42.111 <sub>370</sub>	15.16 <sub>307</sub>	43.578 <sub>279</sub>	59.68 <sub>228</sub>
24.6	35.967 <sub>263</sub>	14.62 <sub>107</sub>	16.358 <sub>298</sub>	21.89 <sub>24</sub>	42.481 <sub>314</sub>	18.23 <sub>338</sub>	43.857 <sub>250</sub>	61.96 <sub>229</sub>
34.6	36.230	13.55	16.656	21.65	42.795	21.61	44.107	64.25
Mittl. Ort sec δ, tg δ	31.158 1.052	42.89 +0.326	11.188 1.217	53.89 +0.693	38.094 1.729	6.84 -1.411	39.405 1.011	40.24 -0.146

Mittlere Zeit Greenw.	355) <i>h</i> Ursae maj.		357) <i>d</i> Ursae maj.		358) <i>θ</i> Ursae maj.		359) <i>ψ</i> Argus	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	9 <sup>h</sup> 25 <sup>m</sup>	+63° 24'	9 <sup>h</sup> 27 <sup>m</sup>	+70° 10'	9 <sup>h</sup> 27 <sup>m</sup>	+52° 1'	9 <sup>h</sup> 27 <sup>m</sup>	-40° 6'
Jan. 0.6	17.31 <sup>46</sup>	24.39 <sup>130</sup>	29.71	37.33 <sup>156</sup>	33.356	73.82 <sup>74</sup>	35.085 <sup>251</sup>	57.42 <sup>332</sup>
10.6	17.77 <sup>37</sup>	25.69 <sup>172</sup>	30.28 <sup>57</sup>	38.89 <sup>199</sup>	33.708 <sup>290</sup>	74.56 <sup>114</sup>	35.336 <sup>197</sup>	60.74 <sup>341</sup>
20.6	18.14 <sup>27</sup>	27.41 <sup>205</sup>	30.75 <sup>47</sup>	40.88 <sup>233</sup>	33.998 <sup>219</sup>	75.70 <sup>148</sup>	35.533 <sup>139</sup>	64.16 <sup>341</sup>
30.5	18.41 <sup>17</sup>	29.46 <sup>231</sup>	31.09 <sup>21</sup>	43.21 <sup>257</sup>	34.217 <sup>141</sup>	77.18 <sup>175</sup>	35.672 <sup>79</sup>	67.57 <sup>333</sup>
Feb. 9.5	18.58 <sup>7</sup>	31.77 <sup>247</sup>	31.30 <sup>7</sup>	45.78 <sup>272</sup>	34.358 <sup>63</sup>	78.93 <sup>195</sup>	35.751 <sup>19</sup>	70.90 <sup>315</sup>
19.5	18.65 <sup>4</sup>	34.24 <sup>251</sup>	31.37 <sup>6</sup>	48.50 <sup>274</sup>	34.421 <sup>15</sup>	80.88 <sup>204</sup>	35.770 <sup>37</sup>	74.05 <sup>292</sup>
29.5	18.61 <sup>14</sup>	36.75 <sup>245</sup>	31.31 <sup>19</sup>	51.24 <sup>265</sup>	34.406 <sup>86</sup>	82.92 <sup>204</sup>	35.733 <sup>86</sup>	76.97 <sup>262</sup>
März 10.4	18.47 <sup>22</sup>	39.20 <sup>229</sup>	31.12 <sup>30</sup>	53.89 <sup>246</sup>	34.320 <sup>148</sup>	84.96 <sup>195</sup>	35.647 <sup>130</sup>	79.59 <sup>227</sup>
20.4	18.25 <sup>29</sup>	41.49 <sup>203</sup>	30.82 <sup>39</sup>	56.35 <sup>215</sup>	34.172 <sup>199</sup>	86.91 <sup>178</sup>	35.517 <sup>165</sup>	81.86 <sup>190</sup>
30.4	17.96 <sup>34</sup>	43.52 <sup>169</sup>	30.43 <sup>47</sup>	58.50 <sup>178</sup>	33.973 <sup>237</sup>	88.69 <sup>153</sup>	35.352 <sup>190</sup>	83.76 <sup>149</sup>
Apr. 9.3	17.62 <sup>37</sup>	45.21 <sup>129</sup>	29.96 <sup>51</sup>	60.28 <sup>134</sup>	33.736 <sup>261</sup>	90.22 <sup>123</sup>	35.162 <sup>206</sup>	85.25 <sup>107</sup>
19.3	17.25 <sup>40</sup>	46.50 <sup>86</sup>	29.45 <sup>55</sup>	61.62 <sup>85</sup>	33.475 <sup>272</sup>	91.45 <sup>87</sup>	34.956 <sup>215</sup>	86.32 <sup>64</sup>
29.3	16.85 <sup>39</sup>	47.36 <sup>39</sup>	28.90 <sup>54</sup>	62.47 <sup>34</sup>	33.203 <sup>271</sup>	92.32 <sup>50</sup>	34.741 <sup>215</sup>	86.96 <sup>19</sup>
Mai 9.3	16.46 <sup>39</sup>	47.75 <sup>8</sup>	28.36 <sup>53</sup>	62.81 <sup>16</sup>	32.932 <sup>259</sup>	92.82 <sup>12</sup>	34.526 <sup>209</sup>	87.15 <sup>24</sup>
19.2	16.07 <sup>34</sup>	47.67 <sup>54</sup>	27.83 <sup>49</sup>	62.65 <sup>67</sup>	32.673 <sup>235</sup>	92.94 <sup>27</sup>	34.317 <sup>196</sup>	86.91 <sup>67</sup>
29.2	15.73 <sup>31</sup>	47.13 <sup>97</sup>	27.34 <sup>44</sup>	61.98 <sup>115</sup>	32.438 <sup>206</sup>	92.67 <sup>65</sup>	34.121 <sup>177</sup>	86.24 <sup>107</sup>
Juni 8.2	15.42 <sup>26</sup>	46.16 <sup>139</sup>	26.90 <sup>37</sup>	60.83 <sup>158</sup>	32.232 <sup>170</sup>	92.02 <sup>99</sup>	33.944 <sup>155</sup>	85.17 <sup>145</sup>
18.2	15.16 <sup>20</sup>	44.77 <sup>175</sup>	26.53 <sup>30</sup>	59.25 <sup>197</sup>	32.062 <sup>129</sup>	91.03 <sup>131</sup>	33.789 <sup>128</sup>	83.72 <sup>178</sup>
28.1	14.96 <sup>14</sup>	43.02 <sup>208</sup>	26.23 <sup>22</sup>	57.28 <sup>232</sup>	31.933 <sup>85</sup>	89.72 <sup>160</sup>	33.661 <sup>98</sup>	81.94 <sup>206</sup>
Juli 8.1	14.82 <sup>8</sup>	40.94 <sup>234</sup>	26.01 <sup>13</sup>	54.96 <sup>260</sup>	31.848 <sup>39</sup>	88.12 <sup>185</sup>	33.563 <sup>65</sup>	79.88 <sup>229</sup>
18.1	14.74 <sup>0</sup>	38.60 <sup>257</sup>	25.88 <sup>4</sup>	52.36 <sup>282</sup>	31.809 <sup>7</sup>	86.27 <sup>206</sup>	33.498 <sup>29</sup>	77.59 <sup>245</sup>
28.0	14.74 <sup>6</sup>	36.03 <sup>273</sup>	25.84 <sup>5</sup>	49.54 <sup>300</sup>	31.816 <sup>55</sup>	84.21 <sup>223</sup>	33.469 <sup>9</sup>	75.14 <sup>252</sup>
Aug. 7.0	14.80 <sup>13</sup>	33.30 <sup>284</sup>	25.89 <sup>14</sup>	46.54 <sup>309</sup>	31.871 <sup>101</sup>	81.98 <sup>237</sup>	33.478 <sup>49</sup>	72.62 <sup>251</sup>
17.0	14.93 <sup>19</sup>	30.46 <sup>290</sup>	26.03 <sup>24</sup>	43.45 <sup>314</sup>	31.972 <sup>148</sup>	79.61 <sup>246</sup>	33.527 <sup>92</sup>	70.11 <sup>242</sup>
27.0	15.12 <sup>26</sup>	27.56 <sup>291</sup>	26.27 <sup>32</sup>	40.31 <sup>312</sup>	32.120 <sup>195</sup>	77.15 <sup>250</sup>	33.619 <sup>134</sup>	67.69 <sup>221</sup>
Sept. 5.9	15.38 <sup>33</sup>	24.65 <sup>285</sup>	26.59 <sup>40</sup>	37.19 <sup>304</sup>	32.315 <sup>241</sup>	74.65 <sup>252</sup>	33.753 <sup>177</sup>	65.48 <sup>194</sup>
15.9	15.71 <sup>38</sup>	21.80 <sup>275</sup>	26.99 <sup>49</sup>	34.15 <sup>290</sup>	32.556 <sup>285</sup>	72.13 <sup>248</sup>	33.930 <sup>220</sup>	63.54 <sup>156</sup>
25.9	16.09 <sup>44</sup>	19.05 <sup>258</sup>	27.48 <sup>56</sup>	31.25 <sup>270</sup>	32.841 <sup>328</sup>	69.65 <sup>239</sup>	34.150 <sup>260</sup>	61.98 <sup>112</sup>
Okt. 5.9	16.53 <sup>50</sup>	16.47 <sup>236</sup>	28.04 <sup>63</sup>	28.55 <sup>243</sup>	33.169 <sup>367</sup>	67.26 <sup>226</sup>	34.410 <sup>297</sup>	60.86 <sup>60</sup>
15.8	17.03 <sup>54</sup>	14.11 <sup>208</sup>	28.67 <sup>69</sup>	26.12 <sup>211</sup>	33.536 <sup>404</sup>	65.00 <sup>207</sup>	34.707 <sup>328</sup>	60.26 <sup>5</sup>
25.8	17.57 <sup>58</sup>	12.03 <sup>175</sup>	29.36 <sup>74</sup>	24.01 <sup>173</sup>	33.940 <sup>434</sup>	62.93 <sup>184</sup>	35.035 <sup>353</sup>	60.21 <sup>54</sup>
Nov. 4.8	18.15 <sup>60</sup>	10.28 <sup>136</sup>	30.10 <sup>77</sup>	22.28 <sup>129</sup>	34.374 <sup>455</sup>	61.09 <sup>153</sup>	35.388 <sup>367</sup>	60.73 <sup>110</sup>
14.7	18.75 <sup>62</sup>	8.92 <sup>92</sup>	30.87 <sup>78</sup>	20.99 <sup>81</sup>	34.829 <sup>467</sup>	59.56 <sup>119</sup>	35.755 <sup>373</sup>	61.83 <sup>165</sup>
24.7	19.37 <sup>61</sup>	8.00 <sup>45</sup>	31.65 <sup>78</sup>	20.18 <sup>29</sup>	35.296 <sup>467</sup>	58.37 <sup>81</sup>	36.128 <sup>366</sup>	63.48 <sup>215</sup>
Dez. 4.7	19.98 <sup>60</sup>	7.55 <sup>6</sup>	32.43 <sup>76</sup>	19.89 <sup>24</sup>	35.763 <sup>454</sup>	57.56 <sup>38</sup>	36.494 <sup>349</sup>	65.63 <sup>258</sup>
14.7	20.58 <sup>55</sup>	7.61 <sup>55</sup>	33.19 <sup>70</sup>	20.13 <sup>77</sup>	36.217 <sup>425</sup>	57.18 <sup>6</sup>	36.843 <sup>317</sup>	68.21 <sup>293</sup>
24.6	21.13 <sup>49</sup>	8.16 <sup>103</sup>	33.89 <sup>63</sup>	20.90 <sup>128</sup>	36.642 <sup>384</sup>	57.24 <sup>49</sup>	37.160 <sup>278</sup>	71.14 <sup>319</sup>
34.6	21.62	9.19	34.52	22.18	37.026	57.73	37.438	74.33
Mittl. Ort sec 2, tg δ	14.37 2.234	45.61 +1.998	26.16 2.950	59.18 +2.775	30.989 1.626	93.90 +1.282	32.845 1.308	57.19 -0.843

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	360) $\iota$ Leonis min.		366) $\delta$ Antliae		367) $\epsilon$ Leonis		369) $\upsilon$ Argus	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	9 <sup>h</sup> 29 <sup>m</sup>	+36° 44'	9 <sup>h</sup> 40 <sup>m</sup>	-27° 24'	9 <sup>h</sup> 41 <sup>m</sup>	+24° 8'	9 <sup>h</sup> 45 <sup>m</sup>	-64° 41'
Jan. 0.6	21.726 <sup>292</sup>	54.98	40.058 <sup>249</sup>	12.06 <sup>297</sup>	20.671 <sup>272</sup>	20.29 <sup>76</sup>	9.47 <sup>39</sup>	57.08 <sup>344</sup>
10.6	22.018 <sup>242</sup>	54.96 <sup>2</sup>	40.307 <sup>204</sup>	15.03 <sup>300</sup>	20.943 <sup>228</sup>	19.53 <sup>46</sup>	9.86 <sup>29</sup>	60.52 <sup>370</sup>
20.6	22.260 <sup>185</sup>	55.27 <sup>64</sup>	40.511 <sup>153</sup>	18.03 <sup>296</sup>	21.171 <sup>180</sup>	19.07 <sup>16</sup>	10.15 <sup>21</sup>	64.22 <sup>384</sup>
30.5	22.445 <sup>125</sup>	55.91 <sup>92</sup>	40.664 <sup>101</sup>	20.99 <sup>283</sup>	21.351 <sup>126</sup>	18.91 <sup>12</sup>	10.36 <sup>11</sup>	68.06 <sup>388</sup>
Feb. 9.5	22.570 <sup>63</sup>	56.83 <sup>114</sup>	40.765 <sup>47</sup>	23.82 <sup>264</sup>	21.477 <sup>71</sup>	19.03 <sup>37</sup>	10.47 <sup>0</sup>	71.94 <sup>383</sup>
19.5	22.633 <sup>2</sup>	57.97 <sup>130</sup>	40.812 <sup>3</sup>	26.46 <sup>240</sup>	21.548 <sup>17</sup>	19.40 <sup>59</sup>	10.47 <sup>8</sup>	75.77 <sup>367</sup>
29.5	22.635 <sup>53</sup>	59.27 <sup>138</sup>	40.809 <sup>50</sup>	28.86 <sup>212</sup>	21.565 <sup>31</sup>	19.99 <sup>74</sup>	10.39 <sup>16</sup>	79.44 <sup>345</sup>
März 10.4	22.582 <sup>100</sup>	60.65 <sup>139</sup>	40.759 <sup>88</sup>	30.98 <sup>181</sup>	21.534 <sup>73</sup>	20.73 <sup>85</sup>	10.23 <sup>24</sup>	82.89 <sup>314</sup>
20.4	22.482 <sup>139</sup>	62.04 <sup>134</sup>	40.671 <sup>121</sup>	32.79 <sup>147</sup>	21.461 <sup>109</sup>	21.58 <sup>90</sup>	9.99 <sup>31</sup>	86.03 <sup>278</sup>
30.4	22.343 <sup>168</sup>	63.38 <sup>121</sup>	40.550 <sup>144</sup>	34.26 <sup>113</sup>	21.352 <sup>133</sup>	22.48 <sup>89</sup>	9.68 <sup>35</sup>	88.81 <sup>237</sup>
Apr. 9.4	22.175 <sup>185</sup>	64.59 <sup>104</sup>	40.406 <sup>160</sup>	35.39 <sup>77</sup>	21.219 <sup>150</sup>	23.37 <sup>84</sup>	9.33 <sup>39</sup>	91.18 <sup>191</sup>
19.3	21.990 <sup>192</sup>	65.63 <sup>83</sup>	40.246 <sup>168</sup>	36.16 <sup>41</sup>	21.069 <sup>158</sup>	24.21 <sup>76</sup>	8.94 <sup>42</sup>	93.09 <sup>141</sup>
29.3	21.798 <sup>190</sup>	66.46 <sup>59</sup>	40.078 <sup>169</sup>	36.57 <sup>6</sup>	20.911 <sup>157</sup>	24.97 <sup>65</sup>	8.52 <sup>44</sup>	94.50 <sup>90</sup>
Mai 9.3	21.608 <sup>179</sup>	67.05 <sup>34</sup>	39.909 <sup>163</sup>	36.63 <sup>28</sup>	20.754 <sup>150</sup>	25.62 <sup>51</sup>	8.08 <sup>43</sup>	95.40 <sup>38</sup>
19.2	21.429 <sup>161</sup>	67.39 <sup>8</sup>	39.746 <sup>154</sup>	36.35 <sup>63</sup>	20.604 <sup>136</sup>	26.13 <sup>37</sup>	7.65 <sup>43</sup>	95.78 <sup>16</sup>
29.2	21.268 <sup>139</sup>	67.47 <sup>17</sup>	39.592 <sup>138</sup>	35.72 <sup>94</sup>	20.468 <sup>118</sup>	26.50 <sup>21</sup>	7.22 <sup>41</sup>	95.62 <sup>67</sup>
Juni 8.2	21.129 <sup>111</sup>	67.30 <sup>42</sup>	39.454 <sup>120</sup>	34.78 <sup>124</sup>	20.350 <sup>96</sup>	26.71 <sup>6</sup>	6.81 <sup>38</sup>	94.95 <sup>118</sup>
18.2	21.018 <sup>81</sup>	66.88 <sup>66</sup>	39.334 <sup>98</sup>	33.54 <sup>149</sup>	20.254 <sup>72</sup>	26.77 <sup>9</sup>	6.43 <sup>34</sup>	93.77 <sup>165</sup>
28.1	20.937 <sup>48</sup>	66.22 <sup>87</sup>	39.236 <sup>74</sup>	32.05 <sup>171</sup>	20.182 <sup>46</sup>	26.68 <sup>25</sup>	6.09 <sup>29</sup>	92.12 <sup>207</sup>
Juli 8.1	20.889 <sup>15</sup>	65.35 <sup>108</sup>	39.162 <sup>48</sup>	30.34 <sup>187</sup>	20.136 <sup>18</sup>	26.43 <sup>40</sup>	5.80 <sup>24</sup>	90.05 <sup>243</sup>
18.1	20.874 <sup>19</sup>	64.27 <sup>126</sup>	39.114 <sup>18</sup>	28.47 <sup>198</sup>	20.118 <sup>9</sup>	26.03 <sup>56</sup>	5.56 <sup>17</sup>	87.62 <sup>272</sup>
28.1	20.893 <sup>54</sup>	63.01 <sup>142</sup>	39.096 <sup>12</sup>	26.49 <sup>202</sup>	20.127 <sup>39</sup>	25.47 <sup>71</sup>	5.39 <sup>9</sup>	84.90 <sup>293</sup>
Aug. 7.0	20.947 <sup>88</sup>	61.59 <sup>156</sup>	39.108 <sup>45</sup>	24.47 <sup>199</sup>	20.166 <sup>67</sup>	24.76 <sup>85</sup>	5.30 <sup>2</sup>	81.97 <sup>303</sup>
17.0	21.035 <sup>123</sup>	60.03 <sup>169</sup>	39.153 <sup>78</sup>	22.48 <sup>188</sup>	20.233 <sup>98</sup>	23.91 <sup>101</sup>	5.28 <sup>6</sup>	78.94 <sup>304</sup>
27.0	21.158 <sup>159</sup>	58.34 <sup>179</sup>	39.231 <sup>115</sup>	20.60 <sup>170</sup>	20.331 <sup>129</sup>	22.90 <sup>116</sup>	5.34 <sup>15</sup>	75.90 <sup>293</sup>
Sept. 5.9	21.317 <sup>193</sup>	56.55 <sup>187</sup>	39.346 <sup>150</sup>	18.90 <sup>143</sup>	20.460 <sup>161</sup>	21.74 <sup>130</sup>	5.49 <sup>24</sup>	72.97 <sup>272</sup>
15.9	21.510 <sup>228</sup>	54.68 <sup>194</sup>	39.496 <sup>187</sup>	17.47 <sup>109</sup>	20.621 <sup>192</sup>	20.44 <sup>145</sup>	5.73 <sup>31</sup>	70.25 <sup>240</sup>
25.9	21.738 <sup>262</sup>	52.74 <sup>196</sup>	39.683 <sup>223</sup>	16.38 <sup>70</sup>	20.813 <sup>225</sup>	18.99 <sup>157</sup>	6.04 <sup>40</sup>	67.85 <sup>197</sup>
Okt. 5.9	22.000 <sup>294</sup>	50.78 <sup>195</sup>	39.906 <sup>257</sup>	15.68 <sup>24</sup>	21.038 <sup>255</sup>	17.42 <sup>167</sup>	6.44 <sup>46</sup>	65.88 <sup>146</sup>
15.8	22.294 <sup>324</sup>	48.83 <sup>190</sup>	40.163 <sup>287</sup>	15.44 <sup>24</sup>	21.293 <sup>283</sup>	15.75 <sup>175</sup>	6.90 <sup>52</sup>	64.42 <sup>87</sup>
25.8	22.618 <sup>349</sup>	46.93 <sup>181</sup>	40.450 <sup>311</sup>	15.68 <sup>73</sup>	21.576 <sup>309</sup>	14.00 <sup>179</sup>	7.42 <sup>57</sup>	63.55 <sup>24</sup>
Nov. 4.8	22.967 <sup>367</sup>	45.12 <sup>166</sup>	40.761 <sup>329</sup>	16.41 <sup>122</sup>	21.885 <sup>328</sup>	12.21 <sup>177</sup>	7.99 <sup>59</sup>	63.31 <sup>41</sup>
14.8	23.334 <sup>379</sup>	43.46 <sup>146</sup>	41.090 <sup>337</sup>	17.63 <sup>168</sup>	22.213 <sup>340</sup>	10.44 <sup>170</sup>	8.58 <sup>60</sup>	63.72 <sup>108</sup>
24.7	23.713 <sup>380</sup>	42.00 <sup>121</sup>	41.427 <sup>337</sup>	19.31 <sup>209</sup>	22.553 <sup>343</sup>	8.74 <sup>159</sup>	9.18 <sup>58</sup>	64.80 <sup>170</sup>
Dez. 4.7	24.093 <sup>370</sup>	40.79 <sup>91</sup>	41.764 <sup>325</sup>	21.40 <sup>244</sup>	22.896 <sup>337</sup>	7.15 <sup>141</sup>	9.76 <sup>56</sup>	66.50 <sup>228</sup>
14.7	24.463 <sup>348</sup>	39.88 <sup>58</sup>	42.089 <sup>304</sup>	23.84 <sup>270</sup>	23.233 <sup>320</sup>	5.74 <sup>118</sup>	10.32 <sup>50</sup>	68.78 <sup>279</sup>
24.6	24.811 <sup>315</sup>	39.30 <sup>22</sup>	42.393 <sup>270</sup>	26.54 <sup>288</sup>	23.553 <sup>291</sup>	4.56 <sup>92</sup>	10.82 <sup>43</sup>	71.57 <sup>321</sup>
34.6	25.126	39.08	42.663	29.42	23.844	3.64	11.25	74.78
Mittl. Ort sec $\delta$ , tg $\delta$	19.699 1.248	72.72 +0.747	38.072 1.126	9.56 -0.518	18.834 1.096	35.72 +0.448	6.17 2.340	62.05 -2.115

Mittlere Zeit Greenw.	368) υ Ursae maj.		370) 6 Sextantis		372) Gr. 1586		378) π Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	9 <sup>h</sup> 45 <sup>m</sup>	+59° 24'	9 <sup>h</sup> 47 <sup>m</sup>	-3° 52'	9 <sup>h</sup> 51 <sup>m</sup>	+73° 14'	9 <sup>h</sup> 55 <sup>m</sup>	+8° 25'
Jan. 0.6	21.353 <sup>433</sup>	35.29 <sup>93</sup>	13.984 <sup>248</sup>	12.74 <sup>212</sup>	19.37 <sup>70</sup>	75.76 <sup>141</sup>	60.983 <sup>261</sup>	31.38 <sup>159</sup>
10.6	21.786 <sup>363</sup>	36.22 <sup>137</sup>	14.232 <sup>209</sup>	14.86 <sup>199</sup>	20.07 <sup>59</sup>	77.17 <sup>189</sup>	61.244 <sup>224</sup>	29.79 <sup>138</sup>
20.6	22.149 <sup>282</sup>	37.59 <sup>175</sup>	14.441 <sup>164</sup>	16.85 <sup>182</sup>	20.66 <sup>46</sup>	79.06 <sup>230</sup>	61.468 <sup>178</sup>	28.41 <sup>114</sup>
30.6	22.431 <sup>193</sup>	39.34 <sup>207</sup>	14.605 <sup>115</sup>	18.67 <sup>161</sup>	21.12 <sup>31</sup>	81.36 <sup>259</sup>	61.646 <sup>130</sup>	27.27 <sup>89</sup>
Feb. 9.5	22.624 <sup>100</sup>	41.41 <sup>228</sup>	14.720 <sup>66</sup>	20.28 <sup>137</sup>	21.43 <sup>15</sup>	83.95 <sup>280</sup>	61.776 <sup>79</sup>	26.38 <sup>62</sup>
19.5	22.724 <sup>7</sup>	43.69 <sup>239</sup>	14.786 <sup>18</sup>	21.65 <sup>112</sup>	21.58 <sup>0</sup>	86.75 <sup>287</sup>	61.855 <sup>31</sup>	25.76 <sup>38</sup>
29.5	22.731 <sup>79</sup>	46.08 <sup>240</sup>	14.804 <sup>25</sup>	22.77 <sup>87</sup>	21.58 <sup>16</sup>	89.62 <sup>282</sup>	61.886 <sup>14</sup>	25.38 <sup>16</sup>
März 10.4	22.652 <sup>158</sup>	48.48 <sup>230</sup>	14.779 <sup>63</sup>	23.64 <sup>63</sup>	21.42 <sup>30</sup>	92.44 <sup>267</sup>	61.872 <sup>54</sup>	25.22 <sup>4</sup>
20.4	22.494 <sup>223</sup>	50.78 <sup>210</sup>	14.716 <sup>93</sup>	24.27 <sup>40</sup>	21.12 <sup>41</sup>	95.11 <sup>240</sup>	61.818 <sup>86</sup>	25.26 <sup>20</sup>
30.4	22.271 <sup>275</sup>	52.88 <sup>183</sup>	14.623 <sup>116</sup>	24.67 <sup>19</sup>	20.71 <sup>52</sup>	97.51 <sup>205</sup>	61.732 <sup>110</sup>	25.46 <sup>33</sup>
Apr. 9.4	21.996 <sup>311</sup>	54.71 <sup>149</sup>	14.507 <sup>131</sup>	24.86 <sup>1</sup>	20.19 <sup>58</sup>	99.56 <sup>161</sup>	61.622 <sup>127</sup>	25.79 <sup>43</sup>
19.3	21.685 <sup>332</sup>	56.20 <sup>109</sup>	14.376 <sup>137</sup>	24.85 <sup>18</sup>	19.61 <sup>63</sup>	101.17 <sup>113</sup>	61.495 <sup>135</sup>	26.22 <sup>49</sup>
29.3	21.353 <sup>337</sup>	57.29 <sup>66</sup>	14.239 <sup>138</sup>	24.67 <sup>34</sup>	18.98 <sup>64</sup>	102.30 <sup>62</sup>	61.360 <sup>137</sup>	26.71 <sup>54</sup>
Mai 9.3	21.016 <sup>329</sup>	57.95 <sup>22</sup>	14.101 <sup>133</sup>	24.33 <sup>49</sup>	18.34 <sup>65</sup>	102.92 <sup>8</sup>	61.223 <sup>133</sup>	27.25 <sup>56</sup>
19.3	20.687 <sup>309</sup>	58.17 <sup>23</sup>	13.968 <sup>122</sup>	23.84 <sup>62</sup>	17.69 <sup>62</sup>	103.00 <sup>44</sup>	61.090 <sup>122</sup>	27.81 <sup>57</sup>
29.2	20.378 <sup>279</sup>	57.94 <sup>66</sup>	13.846 <sup>108</sup>	23.22 <sup>72</sup>	17.07 <sup>57</sup>	102.56 <sup>96</sup>	60.968 <sup>109</sup>	28.38 <sup>56</sup>
Juni 8.2	20.099 <sup>241</sup>	57.28 <sup>107</sup>	13.738 <sup>91</sup>	22.50 <sup>82</sup>	16.50 <sup>50</sup>	101.60 <sup>143</sup>	60.859 <sup>92</sup>	28.94 <sup>53</sup>
18.2	19.858 <sup>195</sup>	56.21 <sup>146</sup>	13.647 <sup>71</sup>	21.68 <sup>90</sup>	16.00 <sup>43</sup>	100.17 <sup>187</sup>	60.767 <sup>73</sup>	29.47 <sup>50</sup>
28.1	19.663 <sup>145</sup>	54.75 <sup>179</sup>	13.576 <sup>49</sup>	20.78 <sup>93</sup>	15.57 <sup>34</sup>	98.30 <sup>225</sup>	60.694 <sup>51</sup>	29.97 <sup>45</sup>
Juli 8.1	19.518 <sup>93</sup>	52.96 <sup>210</sup>	13.527 <sup>26</sup>	19.85 <sup>95</sup>	15.23 <sup>25</sup>	96.05 <sup>259</sup>	60.643 <sup>28</sup>	30.42 <sup>38</sup>
18.1	19.425 <sup>37</sup>	50.86 <sup>235</sup>	13.501 <sup>1</sup>	18.90 <sup>94</sup>	14.98 <sup>14</sup>	93.46 <sup>286</sup>	60.615 <sup>5</sup>	30.80 <sup>29</sup>
28.1	19.388 <sup>21</sup>	48.51 <sup>255</sup>	13.500 <sup>24</sup>	17.96 <sup>88</sup>	14.84 <sup>3</sup>	90.60 <sup>308</sup>	60.610 <sup>21</sup>	31.09 <sup>19</sup>
Aug. 7.0	19.409 <sup>77</sup>	45.96 <sup>271</sup>	13.524 <sup>51</sup>	17.08 <sup>78</sup>	14.81 <sup>7</sup>	87.52 <sup>322</sup>	60.631 <sup>48</sup>	31.28 <sup>6</sup>
17.0	19.486 <sup>136</sup>	43.25 <sup>281</sup>	13.575 <sup>79</sup>	16.30 <sup>63</sup>	14.88 <sup>18</sup>	84.30 <sup>331</sup>	60.679 <sup>75</sup>	31.34 <sup>10</sup>
27.0	19.622 <sup>193</sup>	40.44 <sup>287</sup>	13.654 <sup>108</sup>	15.67 <sup>45</sup>	15.06 <sup>28</sup>	80.99 <sup>332</sup>	60.754 <sup>104</sup>	31.24 <sup>28</sup>
Sept. 6.0	19.815 <sup>250</sup>	37.57 <sup>287</sup>	13.762 <sup>140</sup>	15.22 <sup>22</sup>	15.34 <sup>39</sup>	77.67 <sup>327</sup>	60.858 <sup>135</sup>	30.96 <sup>49</sup>
15.9	20.065 <sup>306</sup>	34.70 <sup>282</sup>	13.902 <sup>171</sup>	15.00 <sup>5</sup>	15.73 <sup>49</sup>	74.40 <sup>316</sup>	60.993 <sup>165</sup>	30.47 <sup>70</sup>
25.9	20.371 <sup>361</sup>	31.88 <sup>271</sup>	14.073 <sup>201</sup>	15.05 <sup>35</sup>	16.22 <sup>58</sup>	71.24 <sup>298</sup>	61.158 <sup>197</sup>	29.77 <sup>93</sup>
Okt. 5.9	20.732 <sup>411</sup>	29.17 <sup>254</sup>	14.274 <sup>232</sup>	15.40 <sup>66</sup>	16.80 <sup>67</sup>	68.26 <sup>273</sup>	61.355 <sup>228</sup>	28.84 <sup>115</sup>
15.8	21.143 <sup>458</sup>	26.63 <sup>231</sup>	14.506 <sup>260</sup>	16.06 <sup>98</sup>	17.47 <sup>75</sup>	65.53 <sup>241</sup>	61.583 <sup>258</sup>	27.69 <sup>138</sup>
25.8	21.601 <sup>497</sup>	24.32 <sup>203</sup>	14.766 <sup>284</sup>	17.04 <sup>129</sup>	18.22 <sup>82</sup>	63.12 <sup>203</sup>	61.841 <sup>283</sup>	26.31 <sup>157</sup>
Nov. 4.8	22.098 <sup>527</sup>	22.29 <sup>167</sup>	15.050 <sup>303</sup>	18.33 <sup>157</sup>	19.04 <sup>87</sup>	61.09 <sup>159</sup>	62.124 <sup>303</sup>	24.74 <sup>173</sup>
14.8	22.625 <sup>546</sup>	20.62 <sup>128</sup>	15.353 <sup>314</sup>	19.90 <sup>181</sup>	19.91 <sup>89</sup>	59.50 <sup>110</sup>	62.427 <sup>318</sup>	23.01 <sup>185</sup>
24.7	23.171 <sup>551</sup>	19.34 <sup>83</sup>	15.667 <sup>317</sup>	21.71 <sup>199</sup>	20.80 <sup>91</sup>	58.40 <sup>57</sup>	62.745 <sup>322</sup>	21.16 <sup>189</sup>
Dez. 4.7	23.722 <sup>540</sup>	18.51 <sup>34</sup>	15.984 <sup>311</sup>	23.70 <sup>211</sup>	21.71 <sup>88</sup>	57.83 <sup>0</sup>	63.067 <sup>319</sup>	19.27 <sup>188</sup>
14.7	24.262 <sup>512</sup>	18.17 <sup>15</sup>	16.295 <sup>293</sup>	25.81 <sup>216</sup>	22.59 <sup>84</sup>	57.83 <sup>57</sup>	63.386 <sup>303</sup>	17.39 <sup>181</sup>
24.7	24.774 <sup>467</sup>	18.32 <sup>65</sup>	16.588 <sup>268</sup>	27.97 <sup>213</sup>	23.43 <sup>77</sup>	58.40 <sup>111</sup>	63.689 <sup>280</sup>	15.58 <sup>167</sup>
34.6	25.241	18.97	16.856	30.10	24.20	59.51	63.969	13.91
Mittl. Ort sec δ, tg δ	18.905 1.965	57.07 +1.692	12.195 1.002	4.35 -0.068	15.89 3.472	98.98 +3.325	59.259 1.011	43.01 +0.148

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	379) $\eta$ Leonis		380) $\alpha$ Leonis		381) $\lambda$ Hydrae		382) $q$ Velorum	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$10^h 2^m$	$+17^\circ 8'$	$10^h 4^m$	$+12^\circ 21'$	$10^h 6^m$	$-11^\circ 57'$	$10^h 11^m$	$-41^\circ 43'$
Jan. 0.6	60.109 <sup>276</sup>	57.94 <sup>121</sup>	8.499 <sup>270</sup>	18.60 <sup>144</sup>	43.030 <sup>262</sup>	35.11 <sup>243</sup>	24.556 <sup>302</sup>	28.23 <sup>314</sup>
10.6	60.385 <sup>238</sup>	56.73 <sup>94</sup>	8.769 <sup>233</sup>	17.16 <sup>120</sup>	43.292 <sup>224</sup>	37.54 <sup>238</sup>	24.858 <sup>254</sup>	31.37 <sup>332</sup>
20.6	60.623 <sup>192</sup>	55.79 <sup>65</sup>	9.002 <sup>188</sup>	15.96 <sup>94</sup>	43.516 <sup>180</sup>	39.92 <sup>226</sup>	25.112 <sup>199</sup>	34.69 <sup>340</sup>
30.6	60.815 <sup>142</sup>	55.14 <sup>37</sup>	9.190 <sup>140</sup>	15.02 <sup>66</sup>	43.696 <sup>132</sup>	42.18 <sup>209</sup>	25.311 <sup>140</sup>	38.09 <sup>337</sup>
Feb. 9.5	60.957 <sup>91</sup>	54.77 <sup>9</sup>	9.330 <sup>89</sup>	14.36 <sup>39</sup>	43.828 <sup>83</sup>	44.27 <sup>187</sup>	25.451 <sup>80</sup>	41.46 <sup>328</sup>
19.5	61.048 <sup>39</sup>	54.68 <sup>15</sup>	9.419 <sup>39</sup>	13.97 <sup>14</sup>	43.911 <sup>34</sup>	46.14 <sup>162</sup>	25.531 <sup>23</sup>	44.74 <sup>311</sup>
29.5	61.087 <sup>7</sup>	54.83 <sup>37</sup>	9.458 <sup>6</sup>	13.83 <sup>7</sup>	43.945 <sup>9</sup>	47.76 <sup>137</sup>	25.554 <sup>30</sup>	47.85 <sup>286</sup>
März 10.5	61.080 <sup>49</sup>	55.20 <sup>52</sup>	9.452 <sup>47</sup>	13.90 <sup>27</sup>	43.936 <sup>48</sup>	49.13 <sup>110</sup>	25.524 <sup>79</sup>	50.71 <sup>258</sup>
20.4	61.031 <sup>84</sup>	55.72 <sup>64</sup>	9.405 <sup>87</sup>	14.17 <sup>40</sup>	43.888 <sup>81</sup>	50.23 <sup>84</sup>	25.445 <sup>118</sup>	53.29 <sup>225</sup>
30.4	60.947 <sup>110</sup>	56.36 <sup>71</sup>	9.324 <sup>107</sup>	14.57 <sup>51</sup>	43.807 <sup>105</sup>	51.07 <sup>58</sup>	25.327 <sup>151</sup>	55.54 <sup>187</sup>
Apr. 9.4	60.837 <sup>129</sup>	57.07 <sup>73</sup>	9.217 <sup>124</sup>	15.08 <sup>58</sup>	43.702 <sup>123</sup>	51.65 <sup>32</sup>	25.176 <sup>175</sup>	57.41 <sup>148</sup>
19.3	60.708 <sup>139</sup>	57.80 <sup>72</sup>	9.093 <sup>135</sup>	15.66 <sup>61</sup>	43.579 <sup>133</sup>	51.97 <sup>9</sup>	25.001 <sup>192</sup>	58.89 <sup>107</sup>
29.3	60.569 <sup>142</sup>	58.52 <sup>68</sup>	8.958 <sup>137</sup>	16.27 <sup>62</sup>	43.446 <sup>137</sup>	52.06 <sup>14</sup>	24.809 <sup>200</sup>	59.96 <sup>64</sup>
Mai 9.3	60.427 <sup>139</sup>	59.20 <sup>62</sup>	8.821 <sup>135</sup>	16.89 <sup>60</sup>	43.309 <sup>135</sup>	51.92 <sup>36</sup>	24.609 <sup>204</sup>	60.60 <sup>21</sup>
19.3	60.288 <sup>129</sup>	59.82 <sup>53</sup>	8.686 <sup>125</sup>	17.49 <sup>56</sup>	43.174 <sup>128</sup>	51.56 <sup>56</sup>	24.405 <sup>199</sup>	60.81 <sup>22</sup>
29.2	60.159 <sup>116</sup>	60.35 <sup>44</sup>	8.561 <sup>114</sup>	18.05 <sup>52</sup>	43.046 <sup>118</sup>	51.00 <sup>74</sup>	24.206 <sup>191</sup>	60.59 <sup>65</sup>
Juni 8.2	60.043 <sup>99</sup>	60.79 <sup>33</sup>	8.447 <sup>96</sup>	18.57 <sup>45</sup>	42.928 <sup>103</sup>	50.26 <sup>91</sup>	24.015 <sup>177</sup>	59.94 <sup>104</sup>
18.2	59.944 <sup>80</sup>	61.12 <sup>22</sup>	8.351 <sup>78</sup>	19.02 <sup>38</sup>	42.825 <sup>87</sup>	49.35 <sup>104</sup>	23.838 <sup>158</sup>	58.90 <sup>141</sup>
28.2	59.864 <sup>57</sup>	61.34 <sup>9</sup>	8.273 <sup>57</sup>	19.40 <sup>29</sup>	42.738 <sup>67</sup>	48.31 <sup>115</sup>	23.680 <sup>135</sup>	57.49 <sup>175</sup>
Juli 8.1	59.807 <sup>35</sup>	61.43 <sup>3</sup>	8.216 <sup>35</sup>	19.69 <sup>19</sup>	42.671 <sup>47</sup>	47.16 <sup>123</sup>	23.545 <sup>108</sup>	55.74 <sup>202</sup>
18.1	59.772 <sup>10</sup>	61.40 <sup>16</sup>	8.181 <sup>12</sup>	19.88 <sup>9</sup>	42.624 <sup>24</sup>	45.93 <sup>126</sup>	23.437 <sup>77</sup>	53.72 <sup>225</sup>
28.1	59.762 <sup>16</sup>	61.24 <sup>32</sup>	8.169 <sup>14</sup>	19.97 <sup>4</sup>	42.600 <sup>2</sup>	44.67 <sup>125</sup>	23.360 <sup>42</sup>	51.47 <sup>239</sup>
Aug. 7.0	59.778 <sup>43</sup>	60.92 <sup>46</sup>	8.183 <sup>41</sup>	19.93 <sup>18</sup>	42.602 <sup>28</sup>	43.42 <sup>118</sup>	23.318 <sup>4</sup>	49.08 <sup>245</sup>
17.0	59.821 <sup>72</sup>	60.46 <sup>63</sup>	8.224 <sup>68</sup>	19.75 <sup>35</sup>	42.630 <sup>58</sup>	42.24 <sup>106</sup>	23.314 <sup>38</sup>	46.63 <sup>244</sup>
27.0	59.893 <sup>101</sup>	59.83 <sup>81</sup>	8.292 <sup>97</sup>	19.40 <sup>52</sup>	42.688 <sup>88</sup>	41.18 <sup>89</sup>	23.352 <sup>82</sup>	44.19 <sup>233</sup>
Sept. 6.0	59.994 <sup>132</sup>	59.02 <sup>98</sup>	8.389 <sup>128</sup>	18.88 <sup>72</sup>	42.776 <sup>120</sup>	40.29 <sup>66</sup>	23.434 <sup>129</sup>	41.86 <sup>212</sup>
15.9	60.126 <sup>165</sup>	58.04 <sup>117</sup>	8.517 <sup>159</sup>	18.16 <sup>92</sup>	42.896 <sup>154</sup>	39.63 <sup>38</sup>	23.563 <sup>176</sup>	39.74 <sup>181</sup>
25.9	60.291 <sup>197</sup>	56.87 <sup>136</sup>	8.676 <sup>193</sup>	17.24 <sup>113</sup>	43.050 <sup>188</sup>	39.25 <sup>7</sup>	23.739 <sup>223</sup>	37.93 <sup>144</sup>
Okt. 5.9	60.488 <sup>229</sup>	55.51 <sup>152</sup>	8.869 <sup>224</sup>	16.11 <sup>134</sup>	43.238 <sup>221</sup>	39.18 <sup>30</sup>	23.962 <sup>268</sup>	36.49 <sup>98</sup>
15.9	60.717 <sup>260</sup>	53.99 <sup>166</sup>	9.093 <sup>254</sup>	14.77 <sup>152</sup>	43.459 <sup>253</sup>	39.48 <sup>67</sup>	24.230 <sup>309</sup>	35.51 <sup>46</sup>
25.8	60.977 <sup>288</sup>	52.33 <sup>178</sup>	9.347 <sup>282</sup>	13.25 <sup>168</sup>	43.712 <sup>280</sup>	40.15 <sup>104</sup>	24.539 <sup>343</sup>	35.05 <sup>9</sup>
Nov. 4.8	61.265 <sup>310</sup>	50.55 <sup>185</sup>	9.629 <sup>304</sup>	11.57 <sup>179</sup>	43.992 <sup>302</sup>	41.19 <sup>141</sup>	24.882 <sup>369</sup>	35.14 <sup>67</sup>
14.8	61.575 <sup>325</sup>	48.70 <sup>186</sup>	9.933 <sup>319</sup>	9.78 <sup>187</sup>	44.294 <sup>316</sup>	42.60 <sup>172</sup>	25.251 <sup>384</sup>	35.81 <sup>122</sup>
24.7	61.900 <sup>333</sup>	46.84 <sup>182</sup>	10.252 <sup>326</sup>	7.91 <sup>188</sup>	44.610 <sup>322</sup>	44.32 <sup>200</sup>	25.635 <sup>388</sup>	37.03 <sup>176</sup>
Dez. 4.7	62.233 <sup>330</sup>	45.02 <sup>172</sup>	10.578 <sup>324</sup>	6.03 <sup>183</sup>	44.932 <sup>319</sup>	46.32 <sup>220</sup>	26.023 <sup>380</sup>	38.79 <sup>223</sup>
14.7	62.563 <sup>317</sup>	43.30 <sup>156</sup>	10.902 <sup>311</sup>	4.20 <sup>171</sup>	45.251 <sup>304</sup>	48.52 <sup>235</sup>	26.403 <sup>358</sup>	41.02 <sup>265</sup>
24.7	62.880 <sup>293</sup>	41.74 <sup>134</sup>	11.213 <sup>288</sup>	2.49 <sup>155</sup>	45.555 <sup>279</sup>	50.87 <sup>241</sup>	26.761 <sup>325</sup>	43.67 <sup>297</sup>
34.6	63.173	40.40	11.501	0.94	45.834	53.28	27.086	46.64
Mittl. Ort sec $\delta$ , tg $\delta$	58.418 1.047	71.90 +0.309	6.817 1.024	31.28 +0.219	41.286 1.022	29.30 -0.212	22.448 1.340	30.43 -0.892

Mittlere Zeit Greenw.	384) ζ Leonis		383) λ Ursae maj.		386) μ Ursae maj.		387) 30 H. Urs. maj.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	10 <sup>h</sup> 12 <sup>m</sup>	+23° 48'	10 <sup>h</sup> 12 <sup>m</sup>	+43° 18'	10 <sup>h</sup> 17 <sup>m</sup>	+41° 53'	10 <sup>h</sup> 18 <sup>m</sup>	+65° 57'
Jan. 0.6	16.312 <sup>293</sup>	43.78 <sup>96</sup>	18.518 <sup>349</sup>	31.54 <sup>6</sup>	35.905 <sup>347</sup>	48.32 <sup>16</sup>	25.14 <sup>57</sup>	54.12 <sup>84</sup>
10.6	16.605 <sup>254</sup>	42.82 <sup>63</sup>	18.867 <sup>304</sup>	31.48 <sup>38</sup>	36.252 <sup>304</sup>	48.16 <sup>27</sup>	25.71 <sup>48</sup>	54.96 <sup>136</sup>
20.6	16.859 <sup>208</sup>	42.19 <sup>30</sup>	19.171 <sup>248</sup>	31.86 <sup>79</sup>	36.556 <sup>249</sup>	48.43 <sup>68</sup>	26.19 <sup>40</sup>	56.32 <sup>181</sup>
30.6	17.067 <sup>158</sup>	41.89 <sup>2</sup>	19.419 <sup>186</sup>	32.65 <sup>114</sup>	36.805 <sup>190</sup>	49.11 <sup>105</sup>	26.59 <sup>30</sup>	58.13 <sup>220</sup>
Feb. 9.5	17.225 <sup>103</sup>	41.91 <sup>30</sup>	19.605 <sup>120</sup>	33.79 <sup>144</sup>	36.995 <sup>126</sup>	50.16 <sup>135</sup>	26.89 <sup>19</sup>	60.33 <sup>248</sup>
19.5	17.328 <sup>51</sup>	42.21 <sup>56</sup>	19.725 <sup>55</sup>	35.23 <sup>167</sup>	37.121 <sup>61</sup>	51.51 <sup>158</sup>	27.08 <sup>7</sup>	62.81 <sup>265</sup>
29.5	17.379 <sup>2</sup>	42.77 <sup>75</sup>	19.780 <sup>8</sup>	36.90 <sup>179</sup>	37.182 <sup>0</sup>	53.09 <sup>174</sup>	27.15 <sup>3</sup>	65.46 <sup>271</sup>
März 10.5	17.381 <sup>44</sup>	43.52 <sup>90</sup>	19.772 <sup>65</sup>	38.69 <sup>184</sup>	37.182 <sup>56</sup>	54.83 <sup>180</sup>	27.12 <sup>14</sup>	68.17 <sup>266</sup>
20.4	17.337 <sup>81</sup>	44.42 <sup>98</sup>	19.707 <sup>114</sup>	40.53 <sup>180</sup>	37.126 <sup>104</sup>	56.63 <sup>178</sup>	26.98 <sup>23</sup>	70.83 <sup>249</sup>
30.4	17.256 <sup>110</sup>	45.40 <sup>101</sup>	19.593 <sup>152</sup>	42.33 <sup>169</sup>	37.022 <sup>143</sup>	58.41 <sup>168</sup>	26.75 <sup>30</sup>	73.32 <sup>223</sup>
Apr. 9.4	17.146 <sup>131</sup>	46.41 <sup>98</sup>	19.441 <sup>181</sup>	44.02 <sup>151</sup>	36.879 <sup>171</sup>	60.09 <sup>152</sup>	26.45 <sup>37</sup>	75.55 <sup>188</sup>
19.3	17.015 <sup>144</sup>	47.39 <sup>92</sup>	19.260 <sup>199</sup>	45.53 <sup>126</sup>	36.708 <sup>190</sup>	61.61 <sup>128</sup>	26.08 <sup>40</sup>	77.43 <sup>148</sup>
29.3	16.871 <sup>149</sup>	48.31 <sup>81</sup>	19.061 <sup>207</sup>	46.79 <sup>97</sup>	36.518 <sup>190</sup>	62.89 <sup>102</sup>	25.68 <sup>43</sup>	78.91 <sup>102</sup>
Mai 9.3	16.722 <sup>147</sup>	49.12 <sup>68</sup>	18.854 <sup>205</sup>	47.76 <sup>66</sup>	36.320 <sup>198</sup>	63.91 <sup>72</sup>	25.25 <sup>42</sup>	79.93 <sup>54</sup>
19.3	16.575 <sup>139</sup>	49.80 <sup>53</sup>	18.649 <sup>197</sup>	48.42 <sup>33</sup>	36.122 <sup>191</sup>	64.63 <sup>40</sup>	24.83 <sup>43</sup>	80.47 <sup>4</sup>
29.2	16.436 <sup>126</sup>	50.33 <sup>36</sup>	18.452 <sup>180</sup>	48.75 <sup>0</sup>	35.931 <sup>176</sup>	65.03 <sup>7</sup>	24.40 <sup>39</sup>	80.51 <sup>45</sup>
Juni 8.2	16.310 <sup>110</sup>	50.69 <sup>20</sup>	18.272 <sup>159</sup>	48.75 <sup>34</sup>	35.755 <sup>157</sup>	65.10 <sup>26</sup>	24.01 <sup>36</sup>	80.06 <sup>93</sup>
18.2	16.200 <sup>90</sup>	50.89 <sup>2</sup>	18.113 <sup>134</sup>	48.41 <sup>66</sup>	35.598 <sup>132</sup>	64.84 <sup>57</sup>	23.65 <sup>32</sup>	79.13 <sup>137</sup>
28.2	16.110 <sup>69</sup>	50.91 <sup>16</sup>	17.979 <sup>104</sup>	47.75 <sup>97</sup>	35.466 <sup>105</sup>	64.27 <sup>87</sup>	23.33 <sup>26</sup>	77.76 <sup>179</sup>
Juli 8.1	16.041 <sup>45</sup>	50.75 <sup>34</sup>	17.875 <sup>73</sup>	46.78 <sup>125</sup>	35.361 <sup>75</sup>	63.40 <sup>116</sup>	23.07 <sup>21</sup>	75.97 <sup>215</sup>
18.1	15.996 <sup>20</sup>	50.41 <sup>51</sup>	17.802 <sup>39</sup>	45.53 <sup>150</sup>	35.286 <sup>43</sup>	62.24 <sup>142</sup>	22.86 <sup>14</sup>	73.82 <sup>247</sup>
28.1	15.976 <sup>7</sup>	49.90 <sup>68</sup>	17.763 <sup>4</sup>	44.03 <sup>174</sup>	35.243 <sup>10</sup>	60.82 <sup>165</sup>	22.72 <sup>7</sup>	71.35 <sup>274</sup>
Aug. 7.0	15.983 <sup>34</sup>	49.22 <sup>86</sup>	17.759 <sup>32</sup>	42.29 <sup>194</sup>	35.233 <sup>27</sup>	59.17 <sup>186</sup>	22.65 <sup>0</sup>	68.61 <sup>295</sup>
17.0	16.017 <sup>64</sup>	48.36 <sup>104</sup>	17.791 <sup>71</sup>	40.35 <sup>212</sup>	35.260 <sup>63</sup>	57.31 <sup>205</sup>	22.65 <sup>7</sup>	65.66 <sup>311</sup>
27.0	16.081 <sup>95</sup>	47.32 <sup>121</sup>	17.862 <sup>110</sup>	38.23 <sup>225</sup>	35.323 <sup>101</sup>	55.26 <sup>219</sup>	22.72 <sup>15</sup>	62.55 <sup>320</sup>
Sept. 6.0	16.176 <sup>127</sup>	46.11 <sup>138</sup>	17.972 <sup>151</sup>	35.98 <sup>237</sup>	35.424 <sup>141</sup>	53.07 <sup>232</sup>	22.87 <sup>22</sup>	59.35 <sup>324</sup>
15.9	16.303 <sup>161</sup>	44.73 <sup>153</sup>	18.123 <sup>192</sup>	33.61 <sup>244</sup>	35.565 <sup>182</sup>	50.75 <sup>241</sup>	23.09 <sup>29</sup>	56.11 <sup>320</sup>
25.9	16.464 <sup>196</sup>	43.20 <sup>169</sup>	18.315 <sup>233</sup>	31.17 <sup>246</sup>	35.747 <sup>223</sup>	48.34 <sup>244</sup>	23.38 <sup>37</sup>	52.91 <sup>311</sup>
Okt. 5.9	16.660 <sup>230</sup>	41.51 <sup>181</sup>	18.548 <sup>275</sup>	28.71 <sup>245</sup>	35.970 <sup>264</sup>	45.90 <sup>245</sup>	23.75 <sup>43</sup>	49.80 <sup>295</sup>
15.9	16.890 <sup>262</sup>	39.70 <sup>190</sup>	18.823 <sup>314</sup>	26.26 <sup>238</sup>	36.234 <sup>304</sup>	43.45 <sup>239</sup>	24.18 <sup>50</sup>	46.85 <sup>271</sup>
25.8	17.152 <sup>292</sup>	37.80 <sup>196</sup>	19.137 <sup>349</sup>	23.88 <sup>225</sup>	36.538 <sup>338</sup>	41.06 <sup>228</sup>	24.68 <sup>57</sup>	44.14 <sup>242</sup>
Nov. 4.8	17.444 <sup>317</sup>	35.84 <sup>196</sup>	19.486 <sup>378</sup>	21.63 <sup>206</sup>	36.876 <sup>369</sup>	38.78 <sup>210</sup>	25.25 <sup>60</sup>	41.72 <sup>204</sup>
14.8	17.761 <sup>335</sup>	33.88 <sup>190</sup>	19.864 <sup>399</sup>	19.57 <sup>181</sup>	37.245 <sup>390</sup>	36.68 <sup>187</sup>	25.85 <sup>65</sup>	39.68 <sup>161</sup>
24.7	18.096 <sup>344</sup>	31.98 <sup>180</sup>	20.263 <sup>410</sup>	17.76 <sup>150</sup>	37.635 <sup>403</sup>	34.81 <sup>158</sup>	26.50 <sup>66</sup>	38.07 <sup>111</sup>
Dez. 4.7	18.440 <sup>344</sup>	30.18 <sup>162</sup>	20.673 <sup>411</sup>	16.26 <sup>114</sup>	38.038 <sup>404</sup>	33.23 <sup>123</sup>	27.16 <sup>66</sup>	36.96 <sup>59</sup>
14.7	18.784 <sup>332</sup>	28.56 <sup>139</sup>	21.084 <sup>397</sup>	15.12 <sup>73</sup>	38.442 <sup>392</sup>	32.00 <sup>83</sup>	27.82 <sup>64</sup>	36.37 <sup>4</sup>
24.7	19.116 <sup>310</sup>	27.17 <sup>112</sup>	21.481 <sup>370</sup>	14.39 <sup>30</sup>	38.834 <sup>367</sup>	31.17 <sup>41</sup>	28.46 <sup>60</sup>	36.33 <sup>53</sup>
34.6	19.426	26.05	21.851	14.09	39.201	30.76	29.06	36.86
Mittl. Ort sec δ, tg δ	14.662 1.093	59.52 +0.441	16.743 1.374	51.72 +0.943	34.191 1.344	68.33 +0.897	22.87 2.456	77.85 +2.243

Mittlere Zeit Greenw.	389) $\mu$ Hydrae		391) $J$ Carinae		390) $3I$ Leonis min.		392) Lac. $\alpha$ Antliae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$10^h 22^m$	$-16^\circ 25'$	$10^h 22^m$	$-73^\circ 37'$	$10^h 23^m$	$+37^\circ 6'$	$10^h 23^m$	$-30^\circ 39'$
Jan. 0.7	14.961 <sup>275</sup>	43.13 <sup>256</sup>	52.82 <sup>64</sup>	18.40 <sup>307</sup>	17.417 <sup>333</sup>	44.44 <sup>42</sup>	31.204 <sup>290</sup>	36.28 <sup>290</sup>
10.6	15.236 <sup>238</sup>	45.69 <sup>254</sup>	53.46 <sup>52</sup>	21.47 <sup>343</sup>	17.750 <sup>292</sup>	44.02 <sup>2</sup>	31.494 <sup>250</sup>	39.18 <sup>301</sup>
20.6	15.474 <sup>195</sup>	48.23 <sup>247</sup>	53.98 <sup>40</sup>	24.90 <sup>370</sup>	18.042 <sup>243</sup>	44.00 <sup>39</sup>	31.744 <sup>202</sup>	42.19 <sup>303</sup>
30.6	15.669 <sup>147</sup>	50.70 <sup>232</sup>	54.38 <sup>26</sup>	28.60 <sup>385</sup>	18.285 <sup>187</sup>	44.39 <sup>75</sup>	31.946 <sup>151</sup>	45.22 <sup>296</sup>
Feb. 9.5	15.816 <sup>98</sup>	53.02 <sup>214</sup>	54.64 <sup>12</sup>	32.45 <sup>392</sup>	18.472 <sup>127</sup>	45.14 <sup>107</sup>	32.097 <sup>98</sup>	48.18 <sup>284</sup>
19.5	15.914 <sup>50</sup>	55.16 <sup>190</sup>	54.76 <sup>1</sup>	36.37 <sup>388</sup>	18.599 <sup>66</sup>	46.21 <sup>132</sup>	32.195 <sup>46</sup>	51.02 <sup>264</sup>
29.5	15.964 <sup>5</sup>	57.06 <sup>164</sup>	54.75 <sup>14</sup>	40.25 <sup>376</sup>	18.665 <sup>10</sup>	47.53 <sup>149</sup>	32.241 <sup>2</sup>	53.66 <sup>240</sup>
März 10.5	15.969 <sup>35</sup>	58.70 <sup>138</sup>	54.61 <sup>25</sup>	44.01 <sup>355</sup>	18.675 <sup>44</sup>	49.02 <sup>160</sup>	32.239 <sup>45</sup>	56.06 <sup>213</sup>
20.4	15.934 <sup>68</sup>	60.08 <sup>110</sup>	54.36 <sup>35</sup>	47.56 <sup>327</sup>	18.631 <sup>88</sup>	50.62 <sup>161</sup>	32.194 <sup>82</sup>	58.19 <sup>181</sup>
30.4	15.866 <sup>95</sup>	61.18 <sup>83</sup>	54.00 <sup>46</sup>	50.83 <sup>292</sup>	18.543 <sup>124</sup>	52.23 <sup>155</sup>	32.112 <sup>111</sup>	60.00 <sup>148</sup>
Apr. 9.4	15.771 <sup>115</sup>	62.01 <sup>55</sup>	53.54 <sup>53</sup>	53.75 <sup>252</sup>	18.419 <sup>152</sup>	53.78 <sup>143</sup>	32.001 <sup>134</sup>	61.48 <sup>115</sup>
19.4	15.656 <sup>129</sup>	62.56 <sup>28</sup>	53.01 <sup>59</sup>	56.27 <sup>208</sup>	18.267 <sup>169</sup>	55.21 <sup>126</sup>	31.867 <sup>148</sup>	62.63 <sup>78</sup>
29.3	15.527 <sup>134</sup>	62.84 <sup>2</sup>	52.42 <sup>63</sup>	58.35 <sup>158</sup>	18.098 <sup>178</sup>	56.47 <sup>103</sup>	31.719 <sup>158</sup>	63.41 <sup>43</sup>
Mai 9.3	15.393 <sup>135</sup>	62.86 <sup>23</sup>	51.79 <sup>67</sup>	59.93 <sup>106</sup>	17.920 <sup>179</sup>	57.50 <sup>77</sup>	31.561 <sup>161</sup>	63.84 <sup>7</sup>
19.3	15.258 <sup>132</sup>	62.63 <sup>47</sup>	51.12 <sup>67</sup>	60.99 <sup>53</sup>	17.741 <sup>173</sup>	58.27 <sup>49</sup>	31.400 <sup>158</sup>	63.91 <sup>29</sup>
29.2	15.126 <sup>124</sup>	62.16 <sup>69</sup>	50.45 <sup>67</sup>	61.52 <sup>2</sup>	17.568 <sup>160</sup>	58.76 <sup>20</sup>	31.242 <sup>150</sup>	63.62 <sup>62</sup>
Juni 8.2	15.002 <sup>112</sup>	61.47 <sup>89</sup>	49.78 <sup>65</sup>	61.50 <sup>56</sup>	17.408 <sup>143</sup>	58.96 <sup>8</sup>	31.092 <sup>140</sup>	63.00 <sup>95</sup>
18.2	14.890 <sup>98</sup>	60.58 <sup>107</sup>	49.13 <sup>61</sup>	60.94 <sup>109</sup>	17.265 <sup>122</sup>	58.88 <sup>38</sup>	30.952 <sup>125</sup>	62.05 <sup>124</sup>
28.2	14.792 <sup>81</sup>	59.51 <sup>121</sup>	48.52 <sup>55</sup>	59.85 <sup>158</sup>	17.143 <sup>98</sup>	58.50 <sup>65</sup>	30.827 <sup>107</sup>	60.81 <sup>151</sup>
Juli 8.1	14.711 <sup>61</sup>	58.30 <sup>132</sup>	47.97 <sup>49</sup>	58.27 <sup>203</sup>	17.045 <sup>71</sup>	57.85 <sup>92</sup>	30.720 <sup>86</sup>	59.30 <sup>171</sup>
18.1	14.650 <sup>40</sup>	56.98 <sup>140</sup>	47.48 <sup>40</sup>	56.24 <sup>241</sup>	16.974 <sup>42</sup>	56.93 <sup>116</sup>	30.634 <sup>61</sup>	57.59 <sup>189</sup>
28.1	14.610 <sup>15</sup>	55.58 <sup>141</sup>	47.08 <sup>30</sup>	53.83 <sup>272</sup>	16.932 <sup>12</sup>	55.77 <sup>140</sup>	30.573 <sup>33</sup>	55.70 <sup>199</sup>
Aug. 7.1	14.595 <sup>11</sup>	54.17 <sup>138</sup>	46.78 <sup>18</sup>	51.11 <sup>295</sup>	16.920 <sup>20</sup>	54.37 <sup>161</sup>	30.540 <sup>2</sup>	53.71 <sup>201</sup>
17.0	14.606 <sup>40</sup>	52.79 <sup>129</sup>	46.60 <sup>6</sup>	48.16 <sup>308</sup>	16.940 <sup>54</sup>	52.76 <sup>180</sup>	30.538 <sup>31</sup>	51.70 <sup>198</sup>
27.0	14.646 <sup>72</sup>	51.50 <sup>112</sup>	46.54 <sup>7</sup>	45.08 <sup>309</sup>	16.994 <sup>90</sup>	50.96 <sup>196</sup>	30.569 <sup>69</sup>	49.72 <sup>185</sup>
Sept. 6.0	14.718 <sup>106</sup>	50.38 <sup>91</sup>	46.61 <sup>21</sup>	41.99 <sup>299</sup>	17.084 <sup>127</sup>	49.00 <sup>211</sup>	30.638 <sup>108</sup>	47.87 <sup>165</sup>
15.9	14.824 <sup>141</sup>	49.47 <sup>64</sup>	46.82 <sup>35</sup>	39.00 <sup>279</sup>	17.211 <sup>165</sup>	46.89 <sup>222</sup>	30.746 <sup>148</sup>	46.22 <sup>136</sup>
25.9	14.965 <sup>177</sup>	48.83 <sup>31</sup>	47.17 <sup>47</sup>	36.21 <sup>246</sup>	17.376 <sup>205</sup>	44.67 <sup>230</sup>	30.894 <sup>191</sup>	44.86 <sup>102</sup>
Okt. 5.9	15.142 <sup>213</sup>	48.52 <sup>6</sup>	47.64 <sup>59</sup>	33.75 <sup>203</sup>	17.581 <sup>244</sup>	42.37 <sup>234</sup>	31.085 <sup>230</sup>	43.84 <sup>59</sup>
15.9	15.355 <sup>248</sup>	48.58 <sup>44</sup>	48.23 <sup>70</sup>	31.72 <sup>151</sup>	17.825 <sup>282</sup>	40.03 <sup>233</sup>	31.315 <sup>268</sup>	43.25 <sup>14</sup>
25.8	15.603 <sup>277</sup>	49.02 <sup>86</sup>	48.93 <sup>78</sup>	30.21 <sup>93</sup>	18.107 <sup>317</sup>	37.70 <sup>226</sup>	31.583 <sup>301</sup>	43.11 <sup>36</sup>
Nov. 4.8	15.880 <sup>302</sup>	49.88 <sup>124</sup>	49.71 <sup>84</sup>	29.28 <sup>28</sup>	18.424 <sup>346</sup>	35.44 <sup>215</sup>	31.884 <sup>328</sup>	43.47 <sup>86</sup>
14.8	16.182 <sup>319</sup>	51.12 <sup>161</sup>	50.55 <sup>87</sup>	29.00 <sup>38</sup>	18.770 <sup>368</sup>	33.29 <sup>195</sup>	32.212 <sup>345</sup>	44.33 <sup>135</sup>
24.8	16.501 <sup>328</sup>	52.73 <sup>194</sup>	51.42 <sup>87</sup>	29.38 <sup>104</sup>	19.138 <sup>381</sup>	31.34 <sup>171</sup>	32.557 <sup>353</sup>	45.68 <sup>179</sup>
Dez. 4.7	16.829 <sup>326</sup>	54.67 <sup>219</sup>	52.29 <sup>84</sup>	30.42 <sup>168</sup>	19.519 <sup>383</sup>	29.63 <sup>140</sup>	32.910 <sup>350</sup>	47.47 <sup>220</sup>
14.7	17.155 <sup>314</sup>	56.86 <sup>239</sup>	53.13 <sup>78</sup>	32.10 <sup>226</sup>	19.902 <sup>374</sup>	28.23 <sup>105</sup>	33.260 <sup>335</sup>	49.67 <sup>252</sup>
24.7	17.469 <sup>291</sup>	59.25 <sup>250</sup>	53.91 <sup>70</sup>	34.36 <sup>277</sup>	20.276 <sup>351</sup>	27.18 <sup>66</sup>	33.595 <sup>308</sup>	52.19 <sup>277</sup>
34.6	17.760	61.75	54.61	37.13	20.627	26.52	33.903	54.96
Mittl. Ort sec $\delta$ , tg $\delta$	13.253 1.043	39.00 -0.295	48.58 3.547	26.79 -3.403	15.787 1.254	63.53 +0.757	29.348 1.162	36.22 -0.593

Mittlere Zeit Greenw.	393) s Carinae		394) 36 Ursae maj.		395) 9 H. Draconis		404) 33 Sextantis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	10 <sup>h</sup> 24 <sup>m</sup>	-58° 19'	10 <sup>h</sup> 25 <sup>m</sup>	+56° 22'	10 <sup>h</sup> 28 <sup>m</sup>	+76° 6'	10 <sup>h</sup> 37 <sup>m</sup>	-1° 19'
Jan. 0.7	58 <sup>5</sup> .927 399	43.94 315	32.944 444	65.99 39	23.08 91	68.00 108	21.575 283	22.86 207
10.6	59.326 335	47.09 346	33.388 390	66.38 88	23.99 79	69.08 163	21.858 249	24.93 194
20.6	59.661 263	50.55 364	33.778 323	67.26 135	24.78 65	70.71 210	22.107 209	26.87 175
30.6	59.924 185	54.19 375	34.101 246	68.61 174	25.43 49	72.81 250	22.316 165	28.62 153
Feb. 9.5	60.109 107	57.94 374	34.347 164	70.35 206	25.92 32	75.31 278	22.481 117	30.15 128
19.5	60.216 30	61.68 364	34.511 80	72.41 228	26.24 12	78.09 295	22.598 70	31.43 103
29.5	60.246 43	65.32 348	34.591 2	74.69 238	26.36 6	81.04 299	22.668 26	32.46 77
März 10.5	60.203 108	68.80 323	34.589 79	77.07 240	26.30 23	84.03 291	22.694 15	33.23 53
20.4	60.095 166	72.03 292	34.510 145	79.47 231	26.07 39	86.94 271	22.679 49	33.76 30
30.4	59.929 214	74.95 255	34.365 200	81.78 212	25.68 53	89.65 242	22.630 77	34.06 10
Apr. 9.4	59.715 254	77.50 215	34.165 244	83.90 185	25.15 63	92.07 203	22.553 98	34.16 8
19.4	59.461 283	79.65 171	33.921 273	85.75 152	24.52 71	94.10 157	22.455 112	34.08 23
29.3	59.178 304	81.36 122	33.648 290	87.27 113	23.81 77	95.67 106	22.343 120	33.85 37
Mai 9.3	58.874 315	82.58 74	33.358 294	88.40 72	23.04 78	96.73 53	22.223 123	33.48 48
19.3	58.559 319	83.32 23	33.064 288	89.12 28	22.26 78	97.26 2	22.100 119	33.00 57
29.2	58.240 313	83.55 28	32.776 271	89.40 15	21.48 75	97.24 56	21.981 114	32.43 64
Juni 8.2	57.927 300	83.27 77	32.505 247	89.25 59	20.73 70	96.68 109	21.867 104	31.79 71
18.2	57.627 280	82.50 124	32.258 217	88.66 100	20.03 63	95.59 157	21.763 92	31.08 74
28.2	57.347 251	81.26 168	32.041 179	87.66 138	19.40 54	94.02 202	21.671 76	30.34 76
Juli 8.1	57.096 215	79.58 207	31.862 139	86.28 173	18.86 44	92.00 242	21.595 60	29.58 75
18.1	56.881 171	77.51 239	31.723 95	84.55 205	18.42 33	89.58 277	21.535 40	28.83 72
28.1	56.710 122	75.12 264	31.628 47	82.50 203	18.09 22	86.81 305	21.495 19	28.11 66
Aug. 7.1	56.588 64	72.48 280	31.581 1	80.17 255	17.87 9	83.76 326	21.476 5	27.45 56
17.0	56.524 3	69.68 288	31.582 53	77.62 274	17.78 4	80.50 341	21.481 31	26.89 42
27.0	56.521 65	66.80 285	31.635 106	74.88 287	17.82 17	77.09 350	21.512 60	26.47 26
Sept. 6.0	56.586 135	63.95 270	31.741 159	72.01 295	17.99 29	73.59 352	21.572 92	26.21 4
15.9	56.721 205	61.25 246	31.900 215	69.06 298	18.28 42	70.07 345	21.664 124	26.17 20
25.9	56.926 276	58.79 210	32.115 270	66.08 295	18.70 55	66.62 332	21.788 160	26.37 47
Okt. 5.9	57.202 341	56.69 166	32.385 324	63.13 286	19.25 67	63.30 312	21.948 195	26.84 76
15.9	57.543 400	55.03 113	32.709 375	60.27 270	19.92 78	60.18 285	22.143 229	27.60 105
25.8	57.943 450	53.90 55	33.084 422	57.57 248	20.70 87	57.33 249	22.372 260	28.65 133
Nov. 4.8	58.393 486	53.35 8	33.506 461	55.09 218	21.57 95	54.84 206	22.632 287	29.98 160
14.8	58.879 508	53.43 71	33.967 490	52.91 183	22.52 102	52.78 158	22.919 308	31.58 181
24.8	59.387 513	54.14 134	34.457 508	51.08 141	23.54 105	51.20 103	23.227 319	33.39 198
Dez. 4.7	59.900 502	55.48 192	34.965 511	49.67 95	24.59 105	50.17 46	23.546 322	35.37 209
14.7	60.402 474	57.40 245	35.476 499	48.72 43	25.64 102	49.71 14	23.868 315	37.46 213
24.7	60.876 429	59.85 290	35.975 470	48.29 8	26.66 97	49.85 75	24.183 296	39.59 210
34.6	61.305	62.75	36.445	48.37	27.63	50.60	24.479	41.69
Mittl. Ort sec δ, tg δ	56.306 1.905	50.27 -1.621	31.097 1.807	88.75 +1.505	20.17 4.170	92.80 +4.049	20.033 1.000	14.48 -0.023



Mittlere Zeit Greenw.	406) $\theta$ Argus		407) $\zeta$ Leonis min.		408) $\mu$ Argus		409) $\iota$ Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$10^h 40^m$	$-63^\circ 58'$	$10^h 41^m$	$+31^\circ 5'$	$10^h 43^m$	$-48^\circ 59'$	$10^h 45^m$	$+10^\circ 57'$
Jan. 0.7	8.85 <sub>48</sub>	21.91 <sub>300</sub>	26.736 <sub>326</sub>	56.87 <sub>82</sub>	21.556 <sub>364</sub>	44.79 <sub>300</sub>	4.688 <sub>295</sub>	55.71 <sub>164</sub>
10.6	9.33 <sub>41</sub>	24.91 <sub>335</sub>	27.062 <sub>291</sub>	56.05 <sub>43</sub>	21.920 <sub>314</sub>	47.79 <sub>326</sub>	4.983 <sub>262</sub>	54.07 <sub>141</sub>
20.6	9.74 <sub>33</sub>	28.26 <sub>360</sub>	27.353 <sub>246</sub>	55.62 <sub>5</sub>	22.234 <sub>258</sub>	51.05 <sub>343</sub>	5.245 <sub>223</sub>	52.66 <sub>113</sub>
30.6	10.07 <sub>24</sub>	31.86 <sub>376</sub>	27.599 <sub>196</sub>	55.57 <sub>34</sub>	22.492 <sub>197</sub>	54.48 <sub>351</sub>	5.468 <sub>177</sub>	51.53 <sub>84</sub>
Feb. 9.6	10.31 <sub>15</sub>	35.62 <sub>381</sub>	27.795 <sub>141</sub>	55.91 <sub>67</sub>	22.689 <sub>133</sub>	57.99 <sub>350</sub>	5.645 <sub>130</sub>	50.69 <sub>55</sub>
19.5	10.46 <sub>6</sub>	39.43 <sub>378</sub>	27.936 <sub>86</sub>	56.58 <sub>96</sub>	22.822 <sub>69</sub>	61.49 <sub>340</sub>	5.775 <sub>81</sub>	50.14 <sub>27</sub>
29.5	10.52 <sub>3</sub>	43.21 <sub>365</sub>	28.022 <sub>32</sub>	57.54 <sub>118</sub>	22.891 <sub>9</sub>	64.89 <sub>322</sub>	5.856 <sub>36</sub>	49.87 <sub>1</sub>
März 10.5	10.49 <sub>10</sub>	46.86 <sub>344</sub>	28.054 <sub>18</sub>	58.72 <sub>134</sub>	22.900 <sub>45</sub>	68.11 <sub>300</sub>	5.892 <sub>7</sub>	49.86 <sub>20</sub>
20.4	10.39 <sub>18</sub>	50.30 <sub>317</sub>	28.036 <sub>60</sub>	60.06 <sub>141</sub>	22.855 <sub>95</sub>	71.11 <sub>270</sub>	5.885 <sub>43</sub>	50.06 <sub>39</sub>
30.4	10.21 <sub>23</sub>	53.47 <sub>284</sub>	27.976 <sub>96</sub>	61.47 <sub>143</sub>	22.760 <sub>134</sub>	73.81 <sub>236</sub>	5.842 <sub>73</sub>	50.45 <sub>52</sub>
Apr. 9.4	9.98 <sub>29</sub>	56.31 <sub>245</sub>	27.880 <sub>123</sub>	62.90 <sub>136</sub>	22.626 <sub>169</sub>	76.17 <sub>199</sub>	5.769 <sub>96</sub>	50.97 <sub>62</sub>
19.4	9.69 <sub>32</sub>	58.76 <sub>202</sub>	27.757 <sub>142</sub>	64.26 <sub>125</sub>	22.457 <sub>194</sub>	78.16 <sub>158</sub>	5.673 <sub>111</sub>	51.59 <sub>68</sub>
29.3	9.37 <sub>36</sub>	60.78 <sub>155</sub>	27.615 <sub>153</sub>	65.51 <sub>109</sub>	22.263 <sub>212</sub>	79.74 <sub>115</sub>	5.562 <sub>121</sub>	52.27 <sub>70</sub>
Mai 9.3	9.01 <sub>38</sub>	62.33 <sub>105</sub>	27.462 <sub>157</sub>	66.60 <sub>90</sub>	22.051 <sub>224</sub>	80.89 <sub>69</sub>	5.441 <sub>124</sub>	52.97 <sub>69</sub>
19.3	8.63 <sub>39</sub>	63.38 <sub>53</sub>	27.305 <sub>154</sub>	67.50 <sub>67</sub>	21.827 <sub>229</sub>	81.58 <sub>24</sub>	5.317 <sub>122</sub>	53.66 <sub>67</sub>
29.3	8.24 <sub>39</sub>	63.91 <sub>2</sub>	27.151 <sub>146</sub>	68.17 <sub>43</sub>	21.598 <sub>227</sub>	81.82 <sub>22</sub>	5.195 <sub>117</sub>	54.33 <sub>62</sub>
Juni 8.2	7.85 <sub>38</sub>	63.93 <sub>51</sub>	27.005 <sub>134</sub>	68.60 <sub>18</sub>	21.371 <sub>221</sub>	81.60 <sub>67</sub>	5.078 <sub>108</sub>	54.95 <sub>56</sub>
18.2	7.47 <sub>37</sub>	63.42 <sub>101</sub>	26.871 <sub>118</sub>	68.78 <sub>7</sub>	21.150 <sub>207</sub>	80.93 <sub>110</sub>	4.970 <sub>95</sub>	55.51 <sub>47</sub>
28.2	7.10 <sub>33</sub>	62.41 <sub>148</sub>	26.753 <sub>98</sub>	68.71 <sub>33</sub>	20.943 <sub>189</sub>	79.83 <sub>150</sub>	4.875 <sub>80</sub>	55.98 <sub>39</sub>
Juli 8.1	6.77 <sub>30</sub>	60.93 <sub>191</sub>	26.655 <sub>77</sub>	68.38 <sub>57</sub>	20.754 <sub>164</sub>	78.33 <sub>184</sub>	4.795 <sub>63</sub>	56.37 <sub>28</sub>
18.1	6.47 <sub>24</sub>	59.02 <sub>229</sub>	26.578 <sub>53</sub>	67.81 <sub>81</sub>	20.590 <sub>134</sub>	76.49 <sub>215</sub>	4.732 <sub>44</sub>	56.65 <sub>16</sub>
28.1	6.23 <sub>19</sub>	56.73 <sub>259</sub>	26.525 <sub>28</sub>	67.00 <sub>105</sub>	20.456 <sub>99</sub>	74.34 <sub>238</sub>	4.688 <sub>23</sub>	56.81 <sub>2</sub>
Aug. 7.1	6.04 <sub>12</sub>	54.14 <sub>281</sub>	26.497 <sub>2</sub>	65.95 <sub>126</sub>	20.357 <sub>58</sub>	71.96 <sub>254</sub>	4.665 <sub>1</sub>	56.83 <sub>12</sub>
17.0	5.92 <sub>5</sub>	51.33 <sub>293</sub>	26.499 <sub>31</sub>	64.69 <sub>147</sub>	20.299 <sub>11</sub>	69.42 <sub>260</sub>	4.666 <sub>27</sub>	56.71 <sub>31</sub>
27.0	5.87 <sub>3</sub>	48.40 <sub>296</sub>	26.530 <sub>64</sub>	63.22 <sub>166</sub>	20.288 <sub>39</sub>	66.82 <sub>257</sub>	4.693 <sub>55</sub>	56.40 <sub>49</sub>
Sept. 6.0	5.90 <sub>12</sub>	45.44 <sub>287</sub>	26.594 <sub>99</sub>	61.56 <sub>184</sub>	20.327 <sub>94</sub>	64.25 <sub>244</sub>	4.748 <sub>86</sub>	55.91 <sub>69</sub>
16.0	6.02 <sub>21</sub>	42.57 <sub>267</sub>	26.693 <sub>137</sub>	59.72 <sub>199</sub>	20.421 <sub>152</sub>	61.81 <sub>221</sub>	4.834 <sub>120</sub>	55.22 <sub>91</sub>
25.9	6.23 <sub>29</sub>	39.90 <sub>236</sub>	26.830 <sub>174</sub>	57.73 <sub>212</sub>	20.573 <sub>208</sub>	59.60 <sub>189</sub>	4.954 <sub>155</sub>	54.31 <sub>114</sub>
Okt. 5.9	6.52 <sub>37</sub>	37.54 <sub>196</sub>	27.004 <sub>213</sub>	55.61 <sub>222</sub>	20.781 <sub>264</sub>	57.71 <sub>148</sub>	5.109 <sub>191</sub>	53.17 <sub>135</sub>
15.9	6.89 <sub>45</sub>	35.58 <sub>145</sub>	27.217 <sub>251</sub>	53.39 <sub>227</sub>	21.045 <sub>316</sub>	56.23 <sub>98</sub>	5.300 <sub>225</sub>	51.82 <sub>156</sub>
25.8	7.34 <sub>51</sub>	34.13 <sub>88</sub>	27.468 <sub>287</sub>	51.12 <sub>228</sub>	21.361 <sub>361</sub>	55.25 <sub>44</sub>	5.525 <sub>259</sub>	50.26 <sub>174</sub>
Nov. 4.8	7.85 <sub>56</sub>	33.25 <sub>26</sub>	27.755 <sub>318</sub>	48.84 <sub>222</sub>	21.722 <sub>397</sub>	54.81 <sub>14</sub>	5.784 <sub>287</sub>	48.52 <sub>189</sub>
14.8	8.41 <sub>59</sub>	32.99 <sub>38</sub>	28.073 <sub>342</sub>	46.62 <sub>211</sub>	22.119 <sub>422</sub>	54.95 <sub>74</sub>	6.071 <sub>309</sub>	46.63 <sub>199</sub>
24.8	9.00 <sub>60</sub>	33.37 <sub>103</sub>	28.415 <sub>359</sub>	44.51 <sub>193</sub>	22.541 <sub>434</sub>	55.69 <sub>131</sub>	6.380 <sub>324</sub>	44.64 <sub>202</sub>
Dez. 4.7	9.60 <sub>59</sub>	34.40 <sub>164</sub>	28.774 <sub>364</sub>	42.58 <sub>168</sub>	22.975 <sub>432</sub>	57.00 <sub>186</sub>	6.704 <sub>328</sub>	42.62 <sub>199</sub>
14.7	10.19 <sub>56</sub>	36.04 <sub>221</sub>	29.138 <sub>358</sub>	40.90 <sub>138</sub>	23.407 <sub>415</sub>	58.86 <sub>235</sub>	7.032 <sub>324</sub>	40.63 <sub>190</sub>
24.7	10.75 <sub>51</sub>	38.25 <sub>271</sub>	29.496 <sub>342</sub>	39.52 <sub>104</sub>	23.822 <sub>385</sub>	61.21 <sub>276</sub>	7.356 <sub>307</sub>	38.73 <sub>175</sub>
34.7	11.26	40.96	29.838	38.48	24.207	63.97	7.663	36.98
Mittl. Ort sec $\delta$ , tg $\delta$	5.97 2.279	30.02 -2.048	25.268 1.168	74.69 +0.603	19.416 1.524	50.19 -1.150	3.233 1.019	67.80 +0.194

Mittlere Zeit Greenw.	415) $\iota$ Velorum		416) $\beta$ Ursae maj.		417) $\alpha$ Ursae maj.		418) $\chi$ Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$10^h 56^m$	$-41^\circ 47'$	$10^h 57^m$	$+56^\circ 47'$	$10^h 58^m$	$+62^\circ 10'$	$11^h 0^m$	$+7^\circ 45'$
Jan. 0.7	30.714 <sup>346</sup>	43.40 <sup>285</sup>	2.932 <sup>473</sup>	78.06 <sup>6</sup>	49.74 <sup>53</sup>	35.17 <sup>23</sup>	54.873 <sup>299</sup>	56.77 <sup>180</sup>
10.6	31.060 <sup>304</sup>	46.25 <sup>309</sup>	3.405 <sup>427</sup>	78.12 <sup>59</sup>	50.27 <sup>49</sup>	35.40 <sup>79</sup>	55.172 <sup>269</sup>	54.97 <sup>159</sup>
20.6	31.364 <sup>257</sup>	49.34 <sup>322</sup>	3.832 <sup>367</sup>	78.71 <sup>112</sup>	50.76 <sup>42</sup>	36.19 <sup>132</sup>	55.441 <sup>232</sup>	53.38 <sup>134</sup>
30.6	31.621 <sup>202</sup>	52.56 <sup>328</sup>	4.199 <sup>297</sup>	79.83 <sup>157</sup>	51.18 <sup>34</sup>	37.51 <sup>178</sup>	55.673 <sup>190</sup>	52.04 <sup>105</sup>
Feb. 9.6	31.823 <sup>146</sup>	55.84 <sup>325</sup>	4.496 <sup>217</sup>	81.40 <sup>195</sup>	51.52 <sup>25</sup>	39.29 <sup>217</sup>	55.863 <sup>143</sup>	50.99 <sup>77</sup>
19.5	31.969 <sup>89</sup>	59.09 <sup>314</sup>	4.713 <sup>135</sup>	83.35 <sup>224</sup>	51.77 <sup>15</sup>	41.46 <sup>245</sup>	56.006 <sup>96</sup>	50.22 <sup>49</sup>
29.5	32.058 <sup>35</sup>	62.23 <sup>296</sup>	4.848 <sup>52</sup>	85.59 <sup>243</sup>	51.92 <sup>5</sup>	43.91 <sup>262</sup>	56.102 <sup>50</sup>	49.73 <sup>22</sup>
März 10.5	32.093 <sup>15</sup>	65.19 <sup>274</sup>	4.900 <sup>26</sup>	88.02 <sup>251</sup>	51.97 <sup>3</sup>	46.53 <sup>269</sup>	56.152 <sup>9</sup>	49.51 <sup>2</sup>
20.5	32.078 <sup>59</sup>	67.93 <sup>246</sup>	4.874 <sup>98</sup>	90.53 <sup>248</sup>	51.94 <sup>13</sup>	49.22 <sup>263</sup>	56.161 <sup>28</sup>	49.53 <sup>22</sup>
30.4	32.019 <sup>96</sup>	70.39 <sup>213</sup>	4.776 <sup>159</sup>	93.01 <sup>236</sup>	51.81 <sup>19</sup>	51.85 <sup>248</sup>	56.133 <sup>59</sup>	49.75 <sup>38</sup>
Apr. 9.4	31.923 <sup>126</sup>	72.52 <sup>179</sup>	4.617 <sup>210</sup>	95.37 <sup>213</sup>	51.62 <sup>25</sup>	54.33 <sup>223</sup>	56.074 <sup>82</sup>	50.13 <sup>51</sup>
19.4	31.797 <sup>151</sup>	74.31 <sup>141</sup>	4.407 <sup>248</sup>	97.50 <sup>184</sup>	51.37 <sup>31</sup>	56.56 <sup>189</sup>	55.992 <sup>100</sup>	50.64 <sup>60</sup>
29.3	31.646 <sup>168</sup>	75.72 <sup>102</sup>	4.159 <sup>274</sup>	99.34 <sup>147</sup>	51.06 <sup>33</sup>	58.45 <sup>151</sup>	55.892 <sup>112</sup>	51.24 <sup>65</sup>
Mai 9.3	31.478 <sup>179</sup>	76.74 <sup>62</sup>	3.885 <sup>288</sup>	100.81 <sup>108</sup>	50.73 <sup>35</sup>	59.96 <sup>106</sup>	55.780 <sup>117</sup>	51.89 <sup>68</sup>
19.3	31.299 <sup>185</sup>	77.36 <sup>20</sup>	3.597 <sup>292</sup>	101.89 <sup>64</sup>	50.38 <sup>36</sup>	61.02 <sup>60</sup>	55.663 <sup>118</sup>	52.57 <sup>68</sup>
29.3	31.114 <sup>186</sup>	77.56 <sup>22</sup>	3.305 <sup>284</sup>	102.53 <sup>19</sup>	50.02 <sup>35</sup>	61.62 <sup>11</sup>	55.545 <sup>116</sup>	53.25 <sup>66</sup>
Juni 8.2	30.928 <sup>181</sup>	77.34 <sup>61</sup>	3.021 <sup>270</sup>	102.72 <sup>26</sup>	49.67 <sup>34</sup>	61.73 <sup>37</sup>	55.429 <sup>109</sup>	53.91 <sup>62</sup>
18.2	30.747 <sup>172</sup>	76.73 <sup>100</sup>	2.751 <sup>247</sup>	102.46 <sup>70</sup>	49.33 <sup>31</sup>	61.36 <sup>84</sup>	55.320 <sup>100</sup>	54.53 <sup>57</sup>
28.2	30.575 <sup>159</sup>	75.73 <sup>136</sup>	2.504 <sup>218</sup>	101.76 <sup>113</sup>	49.02 <sup>27</sup>	60.52 <sup>128</sup>	55.220 <sup>87</sup>	55.10 <sup>49</sup>
Juli 8.2	30.416 <sup>139</sup>	74.37 <sup>167</sup>	2.286 <sup>183</sup>	100.63 <sup>152</sup>	48.75 <sup>24</sup>	59.24 <sup>170</sup>	55.133 <sup>73</sup>	55.59 <sup>42</sup>
18.1	30.277 <sup>117</sup>	72.70 <sup>194</sup>	2.103 <sup>145</sup>	99.11 <sup>188</sup>	48.51 <sup>18</sup>	57.54 <sup>208</sup>	55.060 <sup>56</sup>	56.01 <sup>30</sup>
28.1	30.160 <sup>88</sup>	70.76 <sup>215</sup>	1.958 <sup>102</sup>	97.23 <sup>221</sup>	48.33 <sup>14</sup>	55.46 <sup>242</sup>	55.004 <sup>37</sup>	56.31 <sup>19</sup>
Aug. 7.1	30.072 <sup>54</sup>	68.61 <sup>228</sup>	1.856 <sup>56</sup>	95.02 <sup>248</sup>	48.19 <sup>8</sup>	53.04 <sup>270</sup>	54.967 <sup>14</sup>	56.50 <sup>4</sup>
17.0	30.018 <sup>16</sup>	66.33 <sup>234</sup>	1.800 <sup>7</sup>	92.54 <sup>273</sup>	48.11 <sup>2</sup>	50.34 <sup>294</sup>	54.953 <sup>10</sup>	56.54 <sup>12</sup>
27.0	30.002 <sup>26</sup>	63.99 <sup>230</sup>	1.793 <sup>46</sup>	89.81 <sup>291</sup>	48.09 <sup>4</sup>	47.40 <sup>311</sup>	54.963 <sup>38</sup>	56.42 <sup>31</sup>
Sept. 6.0	30.028 <sup>74</sup>	61.69 <sup>217</sup>	1.839 <sup>100</sup>	86.90 <sup>305</sup>	48.13 <sup>10</sup>	44.29 <sup>324</sup>	55.001 <sup>69</sup>	56.11 <sup>51</sup>
16.0	30.102 <sup>123</sup>	59.52 <sup>196</sup>	1.939 <sup>158</sup>	83.85 <sup>312</sup>	48.23 <sup>17</sup>	41.05 <sup>329</sup>	55.070 <sup>102</sup>	55.60 <sup>74</sup>
25.9	30.225 <sup>174</sup>	57.56 <sup>166</sup>	2.097 <sup>216</sup>	80.73 <sup>314</sup>	48.40 <sup>24</sup>	37.76 <sup>330</sup>	55.172 <sup>138</sup>	54.86 <sup>97</sup>
Okt. 5.9	30.399 <sup>225</sup>	55.90 <sup>126</sup>	2.313 <sup>275</sup>	77.59 <sup>310</sup>	48.64 <sup>31</sup>	34.46 <sup>322</sup>	55.310 <sup>175</sup>	53.89 <sup>122</sup>
15.9	30.624 <sup>273</sup>	54.64 <sup>80</sup>	2.588 <sup>333</sup>	74.49 <sup>298</sup>	48.95 <sup>38</sup>	31.24 <sup>307</sup>	55.485 <sup>212</sup>	52.67 <sup>145</sup>
25.9	30.897 <sup>317</sup>	53.84 <sup>30</sup>	2.921 <sup>386</sup>	71.51 <sup>280</sup>	49.33 <sup>43</sup>	28.17 <sup>285</sup>	55.697 <sup>246</sup>	51.22 <sup>166</sup>
Nov. 4.8	31.214 <sup>353</sup>	53.54 <sup>25</sup>	3.307 <sup>434</sup>	68.71 <sup>253</sup>	49.76 <sup>49</sup>	25.32 <sup>254</sup>	55.943 <sup>277</sup>	49.56 <sup>184</sup>
14.8	31.567 <sup>379</sup>	53.79 <sup>79</sup>	3.741 <sup>473</sup>	66.18 <sup>219</sup>	50.25 <sup>54</sup>	22.78 <sup>217</sup>	56.220 <sup>302</sup>	47.72 <sup>197</sup>
24.8	31.946 <sup>394</sup>	54.58 <sup>134</sup>	4.214 <sup>500</sup>	63.99 <sup>179</sup>	50.79 <sup>57</sup>	20.61 <sup>173</sup>	56.522 <sup>318</sup>	45.75 <sup>205</sup>
Dez. 4.7	32.340 <sup>396</sup>	55.92 <sup>183</sup>	4.714 <sup>514</sup>	62.20 <sup>132</sup>	51.36 <sup>58</sup>	18.88 <sup>123</sup>	56.840 <sup>326</sup>	43.70 <sup>206</sup>
14.7	32.736 <sup>386</sup>	57.75 <sup>227</sup>	5.228 <sup>511</sup>	60.88 <sup>81</sup>	51.94 <sup>59</sup>	17.65 <sup>68</sup>	57.166 <sup>324</sup>	41.64 <sup>200</sup>
24.7	33.122 <sup>363</sup>	60.02 <sup>265</sup>	5.739 <sup>492</sup>	60.07 <sup>27</sup>	52.53 <sup>55</sup>	16.97 <sup>11</sup>	57.490 <sup>310</sup>	39.64 <sup>189</sup>
34.7	33.485	62.67	6.231	59.80	53.08	16.86	57.800	37.75
Mittl. Ort sec $\delta$ , tg $\delta$	28.826 1.341	47.66 -0.894	1.479 1.827	101.46 +1.529	48.24 2.143	59.37 +1.895	53.498 1.009	67.67 +0.137

Mittlere Zeit Greenwich.	420) $\psi$ Ursae maj.		421) $\beta$ Crateris		422) $\delta$ Leonis		423) $\vartheta$ Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	11 <sup>h</sup> 5 <sup>m</sup>	+44° 55'	11 <sup>h</sup> 7 <sup>m</sup>	-22° 23'	11 <sup>h</sup> 9 <sup>m</sup>	+20° 57'	11 <sup>h</sup> 10 <sup>m</sup>	+15° 51'
Jan. 0.7	11.646 <sub>391</sub>	36.80 <sub>48</sub>	44.823 <sub>310</sub>	20.55 <sub>256</sub>	52.662 <sub>318</sub>	29.10 <sub>139</sub>	3.926 <sub>311</sub>	48.08 <sub>156</sub>
10.7	12.037 <sub>355</sub>	36.32 <sub>2</sub>	45.133 <sub>278</sub>	23.11 <sub>264</sub>	52.980 <sub>291</sub>	27.71 <sub>107</sub>	4.237 <sub>283</sub>	46.52 <sub>128</sub>
20.6	12.392 <sub>308</sub>	36.34 <sub>50</sub>	45.411 <sub>240</sub>	25.75 <sub>263</sub>	53.271 <sub>252</sub>	26.64 <sub>71</sub>	4.520 <sub>247</sub>	45.24 <sub>97</sub>
30.6	12.700 <sub>252</sub>	36.84 <sub>95</sub>	45.651 <sub>195</sub>	28.38 <sub>257</sub>	53.523 <sub>209</sub>	25.93 <sub>35</sub>	4.767 <sub>203</sub>	44.27 <sub>64</sub>
Feb. 9.6	12.952 <sub>191</sub>	37.79 <sub>135</sub>	45.846 <sub>148</sub>	30.95 <sub>243</sub>	53.732 <sub>161</sub>	25.58 <sub>1</sub>	4.970 <sub>157</sub>	43.63 <sub>30</sub>
19.5	13.143 <sub>126</sub>	39.14 <sub>167</sub>	45.994 <sub>100</sub>	33.38 <sub>224</sub>	53.893 <sub>111</sub>	25.57 <sub>31</sub>	5.127 <sub>109</sub>	43.33 <sub>0</sub>
29.5	13.269 <sub>62</sub>	40.81 <sub>190</sub>	46.094 <sub>54</sub>	35.62 <sub>203</sub>	54.004 <sub>63</sub>	25.88 <sub>58</sub>	5.236 <sub>61</sub>	43.33 <sub>27</sub>
März 10.5	13.331 <sub>1</sub>	42.71 <sub>205</sub>	46.148 <sub>13</sub>	37.65 <sub>178</sub>	54.067 <sub>17</sub>	26.46 <sub>80</sub>	5.297 <sub>18</sub>	43.60 <sub>51</sub>
20.5	13.332 <sub>54</sub>	44.76 <sub>210</sub>	46.161 <sub>26</sub>	39.43 <sub>152</sub>	54.084 <sub>23</sub>	27.26 <sub>97</sub>	5.315 <sub>21</sub>	44.11 <sub>69</sub>
30.4	13.278 <sub>101</sub>	46.86 <sub>206</sub>	46.135 <sub>56</sub>	40.95 <sub>124</sub>	54.061 <sub>57</sub>	28.23 <sub>107</sub>	5.294 <sub>54</sub>	44.80 <sub>81</sub>
Apr. 9.4	13.177 <sub>140</sub>	48.92 <sub>193</sub>	46.079 <sub>83</sub>	42.19 <sub>95</sub>	54.004 <sub>84</sub>	29.30 <sub>111</sub>	5.240 <sub>80</sub>	45.61 <sub>90</sub>
19.4	13.037 <sub>169</sub>	50.85 <sub>172</sub>	45.996 <sub>101</sub>	43.14 <sub>67</sub>	53.920 <sub>106</sub>	30.41 <sub>110</sub>	5.160 <sub>99</sub>	46.51 <sub>92</sub>
29.4	12.868 <sub>189</sub>	52.57 <sub>147</sub>	45.895 <sub>116</sub>	43.81 <sub>39</sub>	53.814 <sub>119</sub>	31.51 <sub>105</sub>	5.061 <sub>113</sub>	47.43 <sub>91</sub>
Mai 9.3	12.679 <sub>200</sub>	54.04 <sub>116</sub>	45.779 <sub>124</sub>	44.20 <sub>11</sub>	53.695 <sub>126</sub>	32.56 <sub>95</sub>	4.948 <sub>120</sub>	48.34 <sub>87</sub>
19.3	12.479 <sub>204</sub>	55.20 <sub>82</sub>	45.655 <sub>129</sub>	44.31 <sub>16</sub>	53.569 <sub>130</sub>	33.51 <sub>82</sub>	4.828 <sub>123</sub>	49.21 <sub>78</sub>
29.3	12.275 <sub>199</sub>	56.02 <sub>46</sub>	45.526 <sub>129</sub>	44.15 <sub>43</sub>	53.439 <sub>127</sub>	34.33 <sub>68</sub>	4.705 <sub>121</sub>	49.99 <sub>68</sub>
Juni 8.2	12.076 <sub>190</sub>	56.48 <sub>8</sub>	45.397 <sub>126</sub>	43.72 <sub>68</sub>	53.312 <sub>121</sub>	35.01 <sub>50</sub>	4.584 <sub>115</sub>	50.67 <sub>57</sub>
18.2	11.886 <sub>174</sub>	56.56 <sub>29</sub>	45.271 <sub>119</sub>	43.04 <sub>90</sub>	53.191 <sub>112</sub>	35.51 <sub>33</sub>	4.469 <sub>107</sub>	51.24 <sub>43</sub>
28.2	11.712 <sub>155</sub>	56.27 <sub>66</sub>	45.152 <sub>109</sub>	42.14 <sub>111</sub>	53.079 <sub>100</sub>	35.84 <sub>13</sub>	4.362 <sub>95</sub>	51.67 <sub>29</sub>
Juli 8.2	11.557 <sub>132</sub>	55.61 <sub>101</sub>	45.043 <sub>96</sub>	41.03 <sub>128</sub>	52.979 <sub>84</sub>	35.97 <sub>6</sub>	4.267 <sub>81</sub>	51.96 <sub>13</sub>
18.1	11.425 <sub>105</sub>	54.60 <sub>134</sub>	44.947 <sub>79</sub>	39.75 <sub>141</sub>	52.895 <sub>67</sub>	35.91 <sub>26</sub>	4.186 <sub>65</sub>	52.09 <sub>4</sub>
28.1	11.320 <sub>74</sub>	53.26 <sub>164</sub>	44.868 <sub>59</sub>	38.34 <sub>150</sub>	52.828 <sub>47</sub>	35.65 <sub>47</sub>	4.121 <sub>45</sub>	52.05 <sub>21</sub>
Aug. 7.1	11.246 <sub>42</sub>	51.62 <sub>193</sub>	44.809 <sub>35</sub>	36.84 <sub>152</sub>	52.781 <sub>24</sub>	35.18 <sub>67</sub>	4.076 <sub>23</sub>	51.84 <sub>40</sub>
17.1	11.204 <sub>5</sub>	49.69 <sub>217</sub>	44.774 <sub>8</sub>	35.32 <sub>150</sub>	52.757 <sub>1</sub>	34.51 <sub>88</sub>	4.053 <sub>2</sub>	51.44 <sub>59</sub>
27.0	11.199 <sub>33</sub>	47.52 <sub>239</sub>	44.766 <sub>25</sub>	33.82 <sub>140</sub>	52.758 <sub>31</sub>	33.63 <sub>110</sub>	4.055 <sub>30</sub>	50.85 <sub>79</sub>
Sept. 6.0	11.232 <sub>76</sub>	45.13 <sub>256</sub>	44.791 <sub>60</sub>	32.42 <sub>125</sub>	52.789 <sub>63</sub>	32.53 <sub>131</sub>	4.085 <sub>61</sub>	50.06 <sub>101</sub>
16.0	11.308 <sub>120</sub>	42.57 <sub>270</sub>	44.851 <sub>98</sub>	31.17 <sub>101</sub>	52.852 <sub>97</sub>	31.22 <sub>151</sub>	4.146 <sub>95</sub>	49.05 <sub>122</sub>
25.9	11.428 <sub>167</sub>	39.87 <sub>279</sub>	44.949 <sub>139</sub>	30.16 <sub>72</sub>	52.949 <sub>135</sub>	29.71 <sub>170</sub>	4.241 <sub>132</sub>	47.83 <sub>143</sub>
Okt. 5.9	11.595 <sub>214</sub>	37.08 <sub>283</sub>	45.088 <sub>181</sub>	29.44 <sub>38</sub>	53.084 <sub>173</sub>	28.01 <sub>188</sub>	4.373 <sub>170</sub>	46.40 <sub>164</sub>
15.9	11.809 <sub>262</sub>	34.25 <sub>280</sub>	45.269 <sub>221</sub>	29.06 <sub>1</sub>	53.257 <sub>213</sub>	26.13 <sub>203</sub>	4.543 <sub>208</sub>	44.76 <sub>181</sub>
25.9	12.071 <sub>307</sub>	31.45 <sub>271</sub>	45.490 <sub>260</sub>	29.07 <sub>43</sub>	53.470 <sub>249</sub>	24.10 <sub>214</sub>	4.751 <sub>244</sub>	42.95 <sub>197</sub>
Nov. 4.8	12.378 <sub>347</sub>	28.74 <sub>255</sub>	45.750 <sub>292</sub>	29.50 <sub>85</sub>	53.719 <sub>283</sub>	21.96 <sub>220</sub>	4.995 <sub>278</sub>	40.98 <sub>207</sub>
14.8	12.725 <sub>381</sub>	26.19 <sub>233</sub>	46.042 <sub>318</sub>	30.35 <sub>126</sub>	54.002 <sub>310</sub>	19.76 <sub>220</sub>	5.273 <sub>304</sub>	38.91 <sub>212</sub>
24.8	13.106 <sub>405</sub>	23.86 <sub>202</sub>	46.360 <sub>335</sub>	31.61 <sub>165</sub>	54.312 <sub>331</sub>	17.56 <sub>214</sub>	5.577 <sub>323</sub>	36.79 <sub>212</sub>
Dez. 4.8	13.511 <sub>418</sub>	21.84 <sub>165</sub>	46.695 <sub>342</sub>	33.26 <sub>198</sub>	54.643 <sub>340</sub>	15.42 <sub>201</sub>	5.900 <sub>333</sub>	34.67 <sub>205</sub>
14.7	13.929 <sub>418</sub>	20.19 <sub>123</sub>	47.037 <sub>338</sub>	35.24 <sub>225</sub>	54.983 <sub>341</sub>	13.41 <sub>182</sub>	6.233 <sub>333</sub>	32.62 <sub>191</sub>
24.7	14.347 <sub>404</sub>	18.96 <sub>76</sub>	47.375 <sub>322</sub>	37.49 <sub>246</sub>	55.324 <sub>330</sub>	11.59 <sub>155</sub>	6.566 <sub>322</sub>	30.71 <sub>170</sub>
34.7	14.751	18.20	47.697	39.95	55.654	10.04	6.888	29.01
Mittl. Ort sec <sup>o</sup> , tg $\delta$	10.352 1.413	58.03 +0.998	43.279 1.081	19.64 -0.412	51.386 1.071	44.02 +0.383	2.636 1.040	61.43 +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.
1920	$11^h 14^m$	$+33^\circ 31'$	$11^h 15^m$	$-14^\circ 20'$	$11^h 17^m$	$+6^\circ 27'$	$11^h 17^m$	$-54^\circ 3'$
Jan. 0.7	$10.951$	$33.11$	$21.801$	$46.86$	$2.020$	$54.52$	$23.277$	$0.67$
10.7	$11.300$	$32.14$	$22.107$	$49.24$	$2.326$	$52.64$	$23.707$	$3.36$
20.6	$11.619$	$31.59$	$22.384$	$51.63$	$2.605$	$50.96$	$24.091$	$6.39$
30.6	$11.898$	$31.48$	$22.625$	$53.95$	$2.848$	$49.53$	$24.420$	$9.69$
Feb. 9.6	$12.130$	$31.80$	$22.824$	$56.14$	$3.051$	$48.36$	$24.686$	$13.15$
19.6	$12.309$	$32.50$	$22.977$	$58.15$	$3.209$	$47.49$	$24.885$	$16.68$
29.5	$12.434$	$33.53$	$23.085$	$59.95$	$3.321$	$46.91$	$25.018$	$20.19$
März 10.5	$12.504$	$34.84$	$23.149$	$61.52$	$3.389$	$46.61$	$25.085$	$23.62$
20.5	$12.522$	$36.35$	$23.171$	$62.84$	$3.414$	$46.55$	$25.090$	$26.87$
30.4	$12.494$	$37.97$	$23.157$	$63.90$	$3.403$	$46.70$	$25.039$	$29.89$
Apr. 9.4	$12.427$	$39.64$	$23.111$	$64.71$	$3.360$	$47.04$	$24.938$	$32.63$
19.4	$12.326$	$41.26$	$23.041$	$65.28$	$3.291$	$47.51$	$24.795$	$35.04$
29.4	$12.201$	$42.79$	$22.951$	$65.60$	$3.203$	$48.09$	$24.615$	$37.06$
Mai 9.3	$12.059$	$44.15$	$22.848$	$65.70$	$3.101$	$48.73$	$24.407$	$38.68$
19.3	$11.906$	$45.31$	$22.735$	$65.58$	$2.991$	$49.42$	$24.177$	$39.85$
29.3	$11.750$	$46.22$	$22.618$	$65.27$	$2.878$	$50.11$	$23.932$	$40.56$
Juni 8.3	$11.595$	$46.87$	$22.500$	$64.76$	$2.765$	$50.80$	$23.678$	$40.81$
18.2	$11.447$	$47.23$	$22.385$	$64.07$	$2.655$	$51.45$	$23.423$	$40.58$
28.2	$11.309$	$47.30$	$22.276$	$63.24$	$2.553$	$52.06$	$23.171$	$39.88$
Juli 8.2	$11.185$	$47.08$	$22.175$	$62.27$	$2.459$	$52.61$	$22.931$	$38.74$
18.1	$11.078$	$46.56$	$22.085$	$61.20$	$2.378$	$53.07$	$22.710$	$37.20$
28.1	$10.992$	$45.77$	$22.011$	$60.06$	$2.311$	$53.44$	$22.515$	$35.29$
Aug. 7.1	$10.928$	$44.70$	$21.954$	$58.89$	$2.262$	$53.69$	$22.354$	$33.07$
17.1	$10.891$	$43.37$	$21.919$	$57.73$	$2.234$	$53.80$	$22.234$	$30.61$
27.0	$10.883$	$41.80$	$21.909$	$56.64$	$2.228$	$53.75$	$22.162$	$28.00$
Sept. 6.0	$10.907$	$40.00$	$21.929$	$55.67$	$2.251$	$53.51$	$22.146$	$25.33$
16.0	$10.966$	$38.00$	$21.981$	$54.87$	$2.304$	$53.07$	$22.191$	$22.71$
26.0	$11.064$	$35.82$	$22.070$	$54.30$	$2.390$	$52.40$	$22.300$	$20.23$
Okt. 5.9	$11.203$	$33.49$	$22.197$	$54.00$	$2.513$	$51.49$	$22.477$	$17.99$
15.9	$11.384$	$31.04$	$22.364$	$54.02$	$2.673$	$50.33$	$22.721$	$16.10$
25.9	$11.608$	$28.53$	$22.571$	$54.39$	$2.872$	$48.94$	$23.029$	$14.65$
Nov. 4.8	$11.872$	$26.01$	$22.815$	$55.13$	$3.107$	$47.31$	$23.394$	$13.70$
14.8	$12.174$	$23.54$	$23.092$	$56.23$	$3.375$	$45.50$	$23.808$	$13.32$
24.8	$12.507$	$21.18$	$23.396$	$57.68$	$3.671$	$43.53$	$24.259$	$13.53$
Dez. 4.8	$12.863$	$19.02$	$23.719$	$59.43$	$3.986$	$41.47$	$24.732$	$14.34$
14.7	$13.232$	$17.11$	$24.050$	$61.44$	$4.311$	$39.37$	$25.212$	$15.73$
24.7	$13.602$	$15.53$	$24.379$	$63.64$	$4.637$	$37.32$	$25.684$	$17.66$
34.7	$13.962$	$14.32$	$24.696$	$65.96$	$4.952$	$35.36$	$26.132$	$20.07$
Mittl. Ort	9.735	51.58	20.370	43.59	0.732	64.72	21.181	8.79
sec $\delta$ ; tg $\delta$	1.200	+0.663	1.032	-0.256	1.006	+0.113	1.703	-1.379

Mittlere Zeit Greenw.	429) Gr. 1771		433) λ Draconis		434) ε Hydrae		436) λ Centauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	11 <sup>h</sup> 18 <sup>m</sup>	+64° 45'	11 <sup>h</sup> 26 <sup>m</sup>	+69° 45'	11 <sup>h</sup> 29 <sup>m</sup>	-31° 24'	11 <sup>h</sup> 32 <sup>m</sup>	-62° 34'
Jan. 0.7	8.12 <sub>59</sub>	42.05 <sub>9</sub>	41.42 <sub>72</sub>	56.61 <sub>13</sub>	5.349 <sub>338</sub>	50.81 <sub>256</sub>	7.36 <sub>54</sub>	27.01 <sub>246</sub>
10.7	8.71 <sub>55</sub>	42.14 <sub>68</sub>	42.14 <sub>66</sub>	56.74 <sub>75</sub>	5.687 <sub>308</sub>	53.37 <sub>273</sub>	7.90 <sub>48</sub>	29.47 <sub>288</sub>
20.6	9.26 <sub>48</sub>	42.82 <sub>123</sub>	42.80 <sub>59</sub>	57.49 <sub>133</sub>	5.995 <sub>270</sub>	56.10 <sub>283</sub>	8.38 <sub>42</sub>	32.35 <sub>322</sub>
30.6	9.74 <sub>40</sub>	44.05 <sub>174</sub>	43.39 <sub>49</sub>	58.82 <sub>184</sub>	6.265 <sub>224</sub>	58.93 <sub>284</sub>	8.80 <sub>35</sub>	35.57 <sub>347</sub>
Feb. 9.6	10.14 <sub>30</sub>	45.79 <sub>216</sub>	43.88 <sub>37</sub>	60.66 <sub>228</sub>	6.489 <sub>177</sub>	61.77 <sub>279</sub>	9.15 <sub>26</sub>	39.04 <sub>361</sub>
19.6	10.44 <sub>20</sub>	47.95 <sub>249</sub>	44.25 <sub>26</sub>	62.94 <sub>262</sub>	6.666 <sub>128</sub>	64.56 <sub>266</sub>	9.41 <sub>19</sub>	42.65 <sub>367</sub>
29.5	10.64 <sub>10</sub>	50.44 <sub>270</sub>	44.51 <sub>14</sub>	65.56 <sub>283</sub>	6.794 <sub>79</sub>	67.22 <sub>250</sub>	9.60 <sub>10</sub>	46.32 <sub>364</sub>
März 10.5	10.74 <sub>0</sub>	53.14 <sub>280</sub>	44.65 <sub>0</sub>	68.39 <sub>294</sub>	6.873 <sub>35</sub>	69.72 <sub>228</sub>	9.70 <sub>3</sub>	49.96 <sub>353</sub>
20.5	10.74 <sub>10</sub>	55.94 <sub>278</sub>	44.65 <sub>10</sub>	71.33 <sub>291</sub>	6.908 <sub>6</sub>	72.00 <sub>204</sub>	9.73 <sub>4</sub>	53.49 <sub>335</sub>
30.4	10.64 <sub>18</sub>	58.72 <sub>265</sub>	44.55 <sub>22</sub>	74.24 <sub>278</sub>	6.902 <sub>41</sub>	74.04 <sub>176</sub>	9.69 <sub>11</sub>	56.84 <sub>310</sub>
Apr. 9.4	10.46 <sub>25</sub>	61.37 <sub>242</sub>	44.33 <sub>31</sub>	77.02 <sub>254</sub>	6.861 <sub>71</sub>	75.80 <sub>146</sub>	9.58 <sub>17</sub>	59.94 <sub>279</sub>
19.4	10.21 <sub>31</sub>	63.79 <sub>211</sub>	44.02 <sub>39</sub>	79.56 <sub>221</sub>	6.790 <sub>95</sub>	77.26 <sub>116</sub>	9.41 <sub>22</sub>	62.73 <sub>244</sub>
29.4	9.90 <sub>36</sub>	65.90 <sub>172</sub>	43.63 <sub>44</sub>	81.77 <sub>181</sub>	6.695 <sub>114</sub>	78.42 <sub>83</sub>	9.19 <sub>26</sub>	65.17 <sub>202</sub>
Mai 9.3	9.54 <sub>38</sub>	67.62 <sub>128</sub>	43.19 <sub>48</sub>	83.58 <sub>135</sub>	6.581 <sub>127</sub>	79.25 <sub>51</sub>	8.93 <sub>29</sub>	67.19 <sub>158</sub>
19.3	9.16 <sub>40</sub>	68.90 <sub>80</sub>	42.71 <sub>51</sub>	84.93 <sub>84</sub>	6.454 <sub>137</sub>	79.76 <sub>18</sub>	8.64 <sub>33</sub>	68.77 <sub>111</sub>
29.3	8.76 <sub>40</sub>	69.70 <sub>31</sub>	42.20 <sub>51</sub>	85.77 <sub>33</sub>	6.317 <sub>143</sub>	79.94 <sub>15</sub>	8.31 <sub>34</sub>	69.88 <sub>62</sub>
Juni 8.3	8.36 <sub>38</sub>	70.01 <sub>20</sub>	41.69 <sub>51</sub>	86.10 <sub>20</sub>	6.174 <sub>144</sub>	79.79 <sub>47</sub>	7.97 <sub>34</sub>	70.50 <sub>10</sub>
18.2	7.98 <sub>37</sub>	69.81 <sub>68</sub>	41.18 <sub>48</sub>	85.90 <sub>72</sub>	6.030 <sub>141</sub>	79.32 <sub>77</sub>	7.63 <sub>35</sub>	70.60 <sub>40</sub>
28.2	7.61 <sub>33</sub>	69.13 <sub>117</sub>	40.70 <sub>45</sub>	85.18 <sub>121</sub>	5.889 <sub>135</sub>	78.55 <sub>105</sub>	7.28 <sub>34</sub>	70.20 <sub>89</sub>
Juli 8.2	7.28 <sub>29</sub>	67.96 <sub>161</sub>	40.25 <sub>40</sub>	83.97 <sub>169</sub>	5.754 <sub>124</sub>	77.50 <sub>131</sub>	6.94 <sub>32</sub>	69.31 <sub>136</sub>
18.1	6.99 <sub>25</sub>	66.35 <sub>202</sub>	39.85 <sub>34</sub>	82.28 <sub>211</sub>	5.630 <sub>110</sub>	76.19 <sub>151</sub>	6.62 <sub>29</sub>	67.95 <sub>179</sub>
28.1	6.74 <sub>20</sub>	64.33 <sub>239</sub>	39.51 <sub>28</sub>	80.17 <sub>250</sub>	5.520 <sub>91</sub>	74.68 <sub>169</sub>	6.33 <sub>25</sub>	66.16 <sub>216</sub>
Aug. 7.1	6.54 <sub>14</sub>	61.94 <sub>270</sub>	39.23 <sub>22</sub>	77.67 <sub>283</sub>	5.429 <sub>66</sub>	72.99 <sub>179</sub>	6.08 <sub>20</sub>	64.00 <sub>246</sub>
17.1	6.40 <sub>7</sub>	59.24 <sub>297</sub>	39.01 <sub>13</sub>	74.84 <sub>310</sub>	5.363 <sub>38</sub>	71.20 <sub>183</sub>	5.88 <sub>14</sub>	61.54 <sub>270</sub>
27.0	6.33 <sub>1</sub>	56.27 <sub>319</sub>	38.88 <sub>5</sub>	71.74 <sub>333</sub>	5.325 <sub>3</sub>	69.37 <sub>181</sub>	5.74 <sub>6</sub>	58.84 <sub>282</sub>
Sept. 6.0	6.32 <sub>6</sub>	53.08 <sub>333</sub>	38.83 <sub>4</sub>	68.41 <sub>347</sub>	5.322 <sub>35</sub>	67.56 <sub>170</sub>	5.68 <sub>1</sub>	56.02 <sub>285</sub>
16.0	6.38 <sub>13</sub>	49.75 <sub>342</sub>	38.87 <sub>13</sub>	64.94 <sub>356</sub>	5.357 <sub>78</sub>	65.86 <sub>151</sub>	5.69 <sub>10</sub>	53.17 <sub>277</sub>
26.0	6.51 <sub>21</sub>	46.33 <sub>344</sub>	39.00 <sub>22</sub>	61.38 <sub>357</sub>	5.435 <sub>123</sub>	64.35 <sub>125</sub>	5.79 <sub>18</sub>	50.40 <sub>258</sub>
Okt. 5.9	6.72 <sub>29</sub>	42.89 <sub>338</sub>	39.22 <sub>32</sub>	57.81 <sub>350</sub>	5.558 <sub>171</sub>	63.10 <sub>92</sub>	5.97 <sub>27</sub>	47.82 <sub>228</sub>
15.9	7.01 <sub>37</sub>	39.51 <sub>325</sub>	39.54 <sub>41</sub>	54.31 <sub>336</sub>	5.729 <sub>216</sub>	62.18 <sub>53</sub>	6.24 <sub>35</sub>	45.54 <sub>187</sub>
25.9	7.38 <sub>43</sub>	36.26 <sub>304</sub>	39.95 <sub>49</sub>	50.95 <sub>313</sub>	5.945 <sub>261</sub>	61.65 <sub>10</sub>	6.59 <sub>43</sub>	43.67 <sub>139</sub>
Nov. 4.8	7.81 <sub>50</sub>	33.22 <sub>275</sub>	40.44 <sub>58</sub>	47.82 <sub>282</sub>	6.206 <sub>299</sub>	61.55 <sub>38</sub>	7.02 <sub>50</sub>	42.28 <sub>83</sub>
14.8	8.31 <sub>56</sub>	30.47 <sub>237</sub>	41.02 <sub>65</sub>	45.00 <sub>243</sub>	6.505 <sub>330</sub>	61.93 <sub>84</sub>	7.52 <sub>54</sub>	41.45 <sub>23</sub>
24.8	8.87 <sub>60</sub>	28.10 <sub>193</sub>	41.67 <sub>70</sub>	42.57 <sub>196</sub>	6.835 <sub>352</sub>	62.77 <sub>129</sub>	8.06 <sub>57</sub>	41.22 <sub>39</sub>
Dez. 4.8	9.47 <sub>62</sub>	26.17 <sub>142</sub>	42.37 <sub>74</sub>	40.61 <sub>143</sub>	7.187 <sub>362</sub>	64.06 <sub>172</sub>	8.63 <sub>59</sub>	41.61 <sub>101</sub>
14.7	10.09 <sub>62</sub>	24.75 <sub>86</sub>	43.11 <sub>75</sub>	39.18 <sub>84</sub>	7.549 <sub>362</sub>	65.78 <sub>209</sub>	9.22 <sub>58</sub>	42.62 <sub>160</sub>
24.7	10.71 <sub>62</sub>	23.89 <sub>27</sub>	43.86 <sub>73</sub>	38.34 <sub>24</sub>	7.911 <sub>349</sub>	67.87 <sub>238</sub>	9.80 <sub>56</sub>	44.22 <sub>214</sub>
34.7	11.33	23.62	44.59	38.10	8.260	70.25	10.36	46.36
Mittl. Ort sec ε, tg ε	6.91 2.346	66.75 +2.122	40.35 2.892	81.88 +2.714	3.812 1.172	53.45 -0.611	5.00 2.171	37.48 -1.927

Mittlere Zeit Greenw.	437) $\nu$ Leonis		440) $\gamma$ Draconis		441) $\chi$ Ursae maj.		444) $\beta$ Leonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$11^h 32^m$	$-0^\circ 22'$	$11^h 38^m$	$+67^\circ 10'$	$11^h 41^m$	$+48^\circ 12'$	$11^h 44^m$	$+15^\circ 0'$
Jan. 0.7	52.391 <sub>310</sub>	62.76 <sub>207</sub>	2.31 <sub>65</sub>	51.16 <sub>9</sub>	50.860 <sub>423</sub>	60.97 <sub>74</sub>	59.902 <sub>321</sub>	57.03 <sub>173</sub>
10.7	52.701 <sub>285</sub>	64.83 <sub>194</sub>	2.96 <sub>61</sub>	51.07 <sub>53</sub>	51.283 <sub>396</sub>	60.23 <sub>19</sub>	60.223 <sub>300</sub>	55.30 <sub>146</sub>
20.7	52.986 <sub>253</sub>	66.77 <sub>176</sub>	3.57 <sub>55</sub>	51.60 <sub>112</sub>	51.679 <sub>355</sub>	60.04 <sub>35</sub>	60.523 <sub>269</sub>	53.84 <sub>113</sub>
30.6	53.239 <sub>215</sub>	68.53 <sub>153</sub>	4.12 <sub>47</sub>	52.72 <sub>165</sub>	52.034 <sub>305</sub>	60.39 <sub>85</sub>	60.792 <sub>230</sub>	52.71 <sub>78</sub>
Feb. 9.6	53.452 <sub>171</sub>	70.06 <sub>127</sub>	4.59 <sub>37</sub>	54.37 <sub>212</sub>	52.339 <sub>245</sub>	61.24 <sub>132</sub>	61.022 <sub>188</sub>	51.93 <sub>45</sub>
19.6	53.623 <sub>126</sub>	71.33 <sub>100</sub>	4.96 <sub>26</sub>	56.49 <sub>248</sub>	52.584 <sub>181</sub>	62.56 <sub>171</sub>	61.210 <sub>142</sub>	51.48 <sub>11</sub>
29.5	53.749 <sub>81</sub>	72.33 <sub>74</sub>	5.22 <sub>15</sub>	58.97 <sub>274</sub>	52.765 <sub>114</sub>	64.27 <sub>202</sub>	61.352 <sub>97</sub>	51.37 <sub>20</sub>
März 10.5	53.833 <sub>41</sub>	73.07 <sub>48</sub>	5.37 <sub>4</sub>	61.71 <sub>288</sub>	52.879 <sub>50</sub>	66.29 <sub>222</sub>	61.449 <sub>53</sub>	51.57 <sub>46</sub>
20.5	53.874 <sub>5</sub>	73.55 <sub>24</sub>	5.41 <sub>7</sub>	64.59 <sub>290</sub>	52.929 <sub>10</sub>	68.51 <sub>233</sub>	61.502 <sub>14</sub>	52.03 <sub>68</sub>
30.5	53.879 <sub>27</sub>	73.79 <sub>3</sub>	5.34 <sub>16</sub>	67.49 <sub>281</sub>	52.919 <sub>65</sub>	70.84 <sub>234</sub>	61.516 <sub>22</sub>	52.71 <sub>84</sub>
Apr. 9.4	53.852 <sub>53</sub>	73.82 <sub>14</sub>	5.18 <sub>25</sub>	70.30 <sub>260</sub>	52.854 <sub>111</sub>	73.18 <sub>226</sub>	61.494 <sub>50</sub>	53.55 <sub>95</sub>
19.4	53.799 <sub>74</sub>	73.68 <sub>30</sub>	4.93 <sub>31</sub>	72.90 <sub>231</sub>	52.743 <sub>150</sub>	75.44 <sub>208</sub>	61.444 <sub>74</sub>	54.50 <sub>100</sub>
29.4	53.725 <sub>89</sub>	73.38 <sub>42</sub>	4.62 <sub>37</sub>	75.21 <sub>194</sub>	52.593 <sub>179</sub>	77.52 <sub>183</sub>	61.370 <sub>91</sub>	55.50 <sub>101</sub>
Mai 9.4	53.636 <sub>100</sub>	72.96 <sub>52</sub>	4.25 <sub>42</sub>	77.15 <sub>150</sub>	52.414 <sub>199</sub>	79.35 <sub>153</sub>	61.279 <sub>105</sub>	56.51 <sub>98</sub>
19.3	53.536 <sub>106</sub>	72.44 <sub>59</sub>	3.83 <sub>44</sub>	78.65 <sub>102</sub>	52.215 <sub>213</sub>	80.88 <sub>118</sub>	61.174 <sub>113</sub>	57.49 <sub>92</sub>
29.3	53.430 <sub>109</sub>	71.85 <sub>64</sub>	3.39 <sub>44</sub>	79.67 <sub>52</sub>	52.002 <sub>218</sub>	82.06 <sub>79</sub>	61.061 <sub>116</sub>	58.41 <sub>81</sub>
Juni 8.3	53.321 <sub>108</sub>	71.21 <sub>69</sub>	2.95 <sub>45</sub>	80.19 <sub>0</sub>	51.784 <sub>216</sub>	82.85 <sub>39</sub>	60.945 <sub>111</sub>	59.22 <sub>70</sub>
18.2	53.213 <sub>105</sub>	70.52 <sub>69</sub>	2.50 <sub>42</sub>	80.19 <sub>52</sub>	51.568 <sub>209</sub>	83.24 <sub>2</sub>	60.828 <sub>114</sub>	59.92 <sub>56</sub>
28.2	53.108 <sub>98</sub>	69.83 <sub>70</sub>	2.08 <sub>40</sub>	79.67 <sub>101</sub>	51.359 <sub>196</sub>	83.22 <sub>44</sub>	60.714 <sub>109</sub>	60.48 <sub>41</sub>
Juli 8.2	53.010 <sub>89</sub>	69.13 <sub>67</sub>	1.68 <sub>37</sub>	78.66 <sub>148</sub>	51.163 <sub>179</sub>	82.78 <sub>84</sub>	60.605 <sub>99</sub>	60.89 <sub>24</sub>
18.2	52.921 <sub>77</sub>	68.46 <sub>62</sub>	1.31 <sub>32</sub>	77.18 <sub>192</sub>	50.984 <sub>156</sub>	81.94 <sub>123</sub>	60.506 <sub>89</sub>	61.13 <sub>7</sub>
28.1	52.844 <sub>61</sub>	67.84 <sub>55</sub>	0.99 <sub>27</sub>	75.26 <sub>233</sub>	50.828 <sub>130</sub>	80.71 <sub>158</sub>	60.417 <sub>73</sub>	61.20 <sub>12</sub>
Aug. 7.1	52.783 <sub>43</sub>	67.29 <sub>46</sub>	0.72 <sub>21</sub>	72.93 <sub>267</sub>	50.698 <sub>100</sub>	79.13 <sub>192</sub>	60.344 <sub>55</sub>	61.08 <sub>32</sub>
17.1	52.740 <sub>20</sub>	66.83 <sub>32</sub>	0.51 <sub>14</sub>	70.26 <sub>298</sub>	50.598 <sub>64</sub>	77.21 <sub>223</sub>	60.289 <sub>33</sub>	60.76 <sub>52</sub>
27.0	52.720 <sub>6</sub>	66.51 <sub>16</sub>	0.37 <sub>7</sub>	67.28 <sub>321</sub>	50.534 <sub>25</sub>	74.98 <sub>248</sub>	60.256 <sub>7</sub>	60.24 <sub>74</sub>
Sept. 6.0	52.726 <sub>36</sub>	66.35 <sub>3</sub>	0.30 <sub>1</sub>	64.07 <sub>340</sub>	50.509 <sub>18</sub>	72.50 <sub>271</sub>	60.249 <sub>23</sub>	59.50 <sub>96</sub>
16.0	52.762 <sub>71</sub>	66.38 <sub>26</sub>	0.31 <sub>9</sub>	60.67 <sub>351</sub>	50.527 <sub>66</sub>	69.79 <sub>289</sub>	60.272 <sub>57</sub>	58.54 <sub>119</sub>
26.0	52.833 <sub>107</sub>	66.64 <sub>51</sub>	0.40 <sub>17</sub>	57.16 <sub>356</sub>	50.593 <sub>116</sub>	66.90 <sub>302</sub>	60.329 <sub>94</sub>	57.35 <sub>141</sub>
Okt. 5.9	52.940 <sub>147</sub>	67.15 <sub>78</sub>	0.57 <sub>26</sub>	53.60 <sub>352</sub>	50.709 <sub>169</sub>	63.88 <sub>309</sub>	60.423 <sub>135</sub>	55.94 <sub>164</sub>
15.9	53.087 <sub>186</sub>	67.93 <sub>106</sub>	0.83 <sub>34</sub>	50.08 <sub>341</sub>	50.878 <sub>223</sub>	60.79 <sub>309</sub>	60.558 <sub>175</sub>	54.30 <sub>183</sub>
25.9	53.273 <sub>224</sub>	68.99 <sub>133</sub>	1.17 <sub>43</sub>	46.67 <sub>323</sub>	51.101 <sub>276</sub>	57.70 <sub>303</sub>	60.733 <sub>216</sub>	52.47 <sub>200</sub>
Nov. 4.9	53.497 <sub>259</sub>	70.32 <sub>158</sub>	1.60 <sub>50</sub>	43.44 <sub>294</sub>	51.377 <sub>325</sub>	54.67 <sub>288</sub>	60.949 <sub>252</sub>	50.47 <sub>214</sub>
14.8	53.756 <sub>288</sub>	71.90 <sub>179</sub>	2.10 <sub>57</sub>	40.50 <sub>258</sub>	51.702 <sub>368</sub>	51.79 <sub>266</sub>	61.201 <sub>286</sub>	48.33 <sub>221</sub>
24.8	54.044 <sub>311</sub>	73.69 <sub>197</sub>	2.67 <sub>62</sub>	37.92 <sub>214</sub>	52.070 <sub>403</sub>	49.13 <sub>236</sub>	61.487 <sub>310</sub>	46.12 <sub>223</sub>
Dez. 4.8	54.355 <sub>323</sub>	75.66 <sub>209</sub>	3.29 <sub>66</sub>	35.78 <sub>163</sub>	52.473 <sub>426</sub>	46.77 <sub>199</sub>	61.797 <sub>327</sub>	43.89 <sub>218</sub>
14.7	54.678 <sub>325</sub>	77.75 <sub>212</sub>	3.95 <sub>68</sub>	34.15 <sub>106</sub>	52.899 <sub>436</sub>	44.78 <sub>154</sub>	62.124 <sub>332</sub>	41.71 <sub>205</sub>
24.7	55.003 <sub>318</sub>	79.87 <sub>211</sub>	4.63 <sub>67</sub>	33.09 <sub>46</sub>	53.335 <sub>432</sub>	43.24 <sub>104</sub>	62.456 <sub>328</sub>	39.66 <sub>187</sub>
34.7	55.321	81.98	5.30	32.63	53.767	42.20	62.784	37.79
Mittl. Ort	51.156	55.20	1.46	76.15	49.944	82.81	58.831	69.54
sec $\delta$ , tg $\delta$	1.000	-0.006	2.579	+2.378	1.501	+1.119	1.035	+0.268

# Obere Kulmination Greenwich

207

Mittlere Zeit Greenw.	445) β Virginis		447) γ Ursae maj.		450) ο Virginis		452) δ Centauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	11 <sup>h</sup> 46 <sup>m</sup>	+2° 12'	11 <sup>h</sup> 49 <sup>m</sup>	+54° 7'	12 <sup>h</sup> 1 <sup>m</sup>	+9° 10'	12 <sup>h</sup> 4 <sup>m</sup>	-50° 16'
Jan. 0.7	32.826 <sup>316</sup>	47.91 <sup>204</sup>	38.589 <sup>471</sup>	59.32 <sup>63</sup>	9.082 <sup>322</sup>	27.79 <sup>192</sup>	13.963 <sup>440</sup>	27.57 <sup>223</sup>
10.7	33.142 <sup>294</sup>	45.87 <sup>188</sup>	39.060 <sup>443</sup>	58.69 <sup>6</sup>	9.404 <sup>302</sup>	25.87 <sup>168</sup>	14.403 <sup>409</sup>	29.80 <sup>160</sup>
20.7	33.436 <sup>263</sup>	43.99 <sup>167</sup>	39.503 <sup>401</sup>	58.63 <sup>51</sup>	9.706 <sup>274</sup>	24.19 <sup>142</sup>	14.812 <sup>368</sup>	32.40 <sup>289</sup>
30.6	33.699 <sup>227</sup>	42.32 <sup>142</sup>	39.904 <sup>346</sup>	59.14 <sup>105</sup>	9.980 <sup>238</sup>	22.77 <sup>111</sup>	15.180 <sup>318</sup>	35.29 <sup>309</sup>
Feb. 9.6	33.926 <sup>185</sup>	40.90 <sup>116</sup>	40.250 <sup>282</sup>	60.19 <sup>153</sup>	10.218 <sup>199</sup>	21.66 <sup>79</sup>	15.498 <sup>262</sup>	38.38 <sup>322</sup>
19.6	34.111 <sup>141</sup>	39.74 <sup>86</sup>	40.532 <sup>210</sup>	61.72 <sup>194</sup>	10.417 <sup>155</sup>	20.87 <sup>47</sup>	15.760 <sup>205</sup>	41.60 <sup>326</sup>
29.6	34.252 <sup>99</sup>	38.88 <sup>59</sup>	40.742 <sup>137</sup>	63.66 <sup>225</sup>	10.572 <sup>112</sup>	20.40 <sup>16</sup>	15.965 <sup>147</sup>	44.86 <sup>322</sup>
März 10.5	34.351 <sup>57</sup>	38.29 <sup>33</sup>	40.879 <sup>63</sup>	65.91 <sup>246</sup>	10.684 <sup>71</sup>	20.24 <sup>11</sup>	16.112 <sup>89</sup>	48.08 <sup>313</sup>
20.5	34.408 <sup>20</sup>	37.96 <sup>9</sup>	40.942 <sup>6</sup>	68.37 <sup>256</sup>	10.755 <sup>32</sup>	20.35 <sup>34</sup>	16.201 <sup>37</sup>	51.21 <sup>295</sup>
30.5	34.428 <sup>13</sup>	37.87 <sup>11</sup>	40.936 <sup>70</sup>	70.93 <sup>256</sup>	10.787 <sup>3</sup>	20.69 <sup>55</sup>	16.238 <sup>12</sup>	54.16 <sup>274</sup>
Apr. 9.4	34.415 <sup>40</sup>	37.98 <sup>29</sup>	40.866 <sup>125</sup>	73.49 <sup>245</sup>	10.784 <sup>31</sup>	21.24 <sup>68</sup>	16.226 <sup>56</sup>	56.90 <sup>247</sup>
19.4	34.375 <sup>63</sup>	38.27 <sup>42</sup>	40.741 <sup>171</sup>	75.94 <sup>226</sup>	10.753 <sup>56</sup>	21.92 <sup>79</sup>	16.170 <sup>95</sup>	59.37 <sup>216</sup>
29.4	34.312 <sup>80</sup>	38.69 <sup>53</sup>	40.570 <sup>207</sup>	78.20 <sup>198</sup>	10.697 <sup>75</sup>	22.71 <sup>85</sup>	16.075 <sup>129</sup>	61.53 <sup>182</sup>
Mai 9.4	34.232 <sup>92</sup>	39.22 <sup>61</sup>	40.363 <sup>234</sup>	80.18 <sup>164</sup>	10.622 <sup>90</sup>	23.56 <sup>87</sup>	15.946 <sup>157</sup>	63.35 <sup>144</sup>
19.3	34.140 <sup>100</sup>	39.83 <sup>65</sup>	40.129 <sup>251</sup>	81.82 <sup>125</sup>	10.532 <sup>100</sup>	24.43 <sup>85</sup>	15.789 <sup>181</sup>	64.79 <sup>103</sup>
29.3	34.040 <sup>105</sup>	40.48 <sup>68</sup>	39.878 <sup>261</sup>	83.07 <sup>82</sup>	10.432 <sup>107</sup>	25.28 <sup>81</sup>	15.608 <sup>199</sup>	65.82 <sup>62</sup>
Juni 8.3	33.935 <sup>107</sup>	41.16 <sup>69</sup>	39.617 <sup>260</sup>	83.89 <sup>38</sup>	10.325 <sup>110</sup>	26.09 <sup>75</sup>	15.409 <sup>212</sup>	66.44 <sup>18</sup>
18.3	33.828 <sup>105</sup>	41.85 <sup>67</sup>	39.357 <sup>254</sup>	84.27 <sup>7</sup>	10.215 <sup>111</sup>	26.84 <sup>66</sup>	15.197 <sup>220</sup>	66.62 <sup>25</sup>
28.2	33.723 <sup>100</sup>	42.52 <sup>64</sup>	39.103 <sup>241</sup>	84.20 <sup>52</sup>	10.104 <sup>108</sup>	27.50 <sup>56</sup>	14.977 <sup>221</sup>	66.37 <sup>68</sup>
Juli 8.2	33.623 <sup>93</sup>	43.16 <sup>59</sup>	38.862 <sup>222</sup>	83.68 <sup>97</sup>	9.996 <sup>102</sup>	28.06 <sup>44</sup>	14.756 <sup>215</sup>	65.69 <sup>108</sup>
18.2	33.530 <sup>83</sup>	43.75 <sup>52</sup>	38.640 <sup>197</sup>	82.71 <sup>137</sup>	9.894 <sup>94</sup>	28.50 <sup>31</sup>	14.541 <sup>203</sup>	64.61 <sup>146</sup>
28.1	33.447 <sup>70</sup>	44.27 <sup>42</sup>	38.443 <sup>168</sup>	81.34 <sup>177</sup>	9.800 <sup>82</sup>	28.81 <sup>16</sup>	14.338 <sup>183</sup>	63.15 <sup>179</sup>
Aug. 7.1	33.377 <sup>52</sup>	44.69 <sup>31</sup>	38.275 <sup>133</sup>	79.57 <sup>212</sup>	9.718 <sup>66</sup>	28.97 <sup>1</sup>	14.155 <sup>155</sup>	61.36 <sup>206</sup>
17.1	33.325 <sup>30</sup>	45.00 <sup>17</sup>	38.142 <sup>93</sup>	77.45 <sup>245</sup>	9.652 <sup>46</sup>	28.96 <sup>19</sup>	14.000 <sup>119</sup>	59.30 <sup>228</sup>
27.1	33.295 <sup>6</sup>	45.17 <sup>0</sup>	38.049 <sup>49</sup>	75.00 <sup>271</sup>	9.606 <sup>21</sup>	28.77 <sup>39</sup>	13.881 <sup>73</sup>	57.02 <sup>240</sup>
Sept. 6.0	33.289 <sup>24</sup>	45.17 <sup>19</sup>	38.000 <sup>54</sup>	72.29 <sup>295</sup>	9.585 <sup>8</sup>	28.38 <sup>61</sup>	13.808 <sup>22</sup>	54.62 <sup>244</sup>
16.0	33.313 <sup>58</sup>	44.98 <sup>43</sup>	38.000 <sup>0</sup>	69.34 <sup>312</sup>	9.593 <sup>7</sup>	27.77 <sup>83</sup>	13.786 <sup>36</sup>	52.18 <sup>237</sup>
26.0	33.371 <sup>95</sup>	44.55 <sup>68</sup>	38.054 <sup>112</sup>	66.22 <sup>324</sup>	9.634 <sup>48</sup>	26.94 <sup>108</sup>	13.822 <sup>99</sup>	49.81 <sup>222</sup>
Okt. 6.0	33.466 <sup>135</sup>	43.87 <sup>92</sup>	38.166 <sup>171</sup>	62.98 <sup>329</sup>	9.712 <sup>118</sup>	25.86 <sup>131</sup>	13.921 <sup>165</sup>	47.59 <sup>197</sup>
15.9	33.601 <sup>175</sup>	42.95 <sup>119</sup>	38.337 <sup>231</sup>	59.69 <sup>328</sup>	9.830 <sup>159</sup>	24.55 <sup>155</sup>	14.086 <sup>230</sup>	45.62 <sup>161</sup>
25.9	33.776 <sup>214</sup>	41.76 <sup>145</sup>	38.568 <sup>292</sup>	56.41 <sup>318</sup>	9.989 <sup>201</sup>	23.00 <sup>176</sup>	14.316 <sup>293</sup>	44.01 <sup>120</sup>
Nov. 4.9	33.990 <sup>251</sup>	40.31 <sup>168</sup>	38.860 <sup>347</sup>	53.23 <sup>301</sup>	10.190 <sup>239</sup>	21.24 <sup>194</sup>	14.609 <sup>348</sup>	42.81 <sup>70</sup>
14.8	34.241 <sup>283</sup>	38.63 <sup>187</sup>	39.207 <sup>397</sup>	50.22 <sup>274</sup>	10.429 <sup>274</sup>	19.30 <sup>208</sup>	14.957 <sup>395</sup>	42.11 <sup>17</sup>
24.8	34.524 <sup>307</sup>	36.76 <sup>202</sup>	39.604 <sup>438</sup>	47.48 <sup>241</sup>	10.703 <sup>301</sup>	17.22 <sup>216</sup>	15.352 <sup>429</sup>	41.94 <sup>39</sup>
Dez. 4.8	34.831 <sup>323</sup>	34.74 <sup>211</sup>	40.042 <sup>467</sup>	45.07 <sup>199</sup>	11.004 <sup>319</sup>	15.06 <sup>218</sup>	15.781 <sup>451</sup>	42.33 <sup>94</sup>
14.8	35.154 <sup>327</sup>	32.63 <sup>213</sup>	40.509 <sup>480</sup>	43.08 <sup>151</sup>	11.323 <sup>328</sup>	12.88 <sup>212</sup>	16.232 <sup>457</sup>	43.27 <sup>146</sup>
24.7	35.481 <sup>323</sup>	30.50 <sup>209</sup>	40.989 <sup>479</sup>	41.57 <sup>97</sup>	11.651 <sup>326</sup>	10.76 <sup>201</sup>	16.689 <sup>448</sup>	44.73 <sup>195</sup>
34.7	35.804	28.41	41.468	40.60	11.977	8.75	17.137	46.68
Mittl. Ort	31.686	56.03	37.805	82.27	8.077	37.96	12.308	36.74
sec δ, tg δ	1.001	+0.039	1.707	+1.383	1.013	+0.162	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.
1920	$12^h 6^m$	$-22^\circ 10'$	$12^h 8^m$	$+78^\circ 2'$	$12^h 11^m$	$+57^\circ 27'$	$12^h 13^m$	$-78^\circ 51'$
Jan. 0.7	1.664 <sup>337</sup>	28.59 <sup>228</sup>	27.77 <sup>115</sup>	73.14 <sup>19</sup>	28.916 <sup>508</sup>	73.97 <sup>79</sup>	41.10 <sup>124</sup>	50.69 <sup>165</sup>
10.7	2.001 <sup>315</sup>	30.87 <sup>239</sup>	28.92 <sup>111</sup>	72.95 <sup>47</sup>	29.424 <sup>486</sup>	73.18 <sup>19</sup>	42.34 <sup>115</sup>	52.34 <sup>220</sup>
20.7	2.316 <sup>286</sup>	33.26 <sup>243</sup>	30.03 <sup>102</sup>	73.42 <sup>109</sup>	29.910 <sup>448</sup>	72.99 <sup>41</sup>	43.49 <sup>104</sup>	54.54 <sup>268</sup>
30.6	2.602 <sup>249</sup>	35.69 <sup>240</sup>	31.05 <sup>89</sup>	74.51 <sup>169</sup>	30.358 <sup>395</sup>	73.40 <sup>98</sup>	44.53 <sup>90</sup>	57.22 <sup>309</sup>
Feb. 9.6	2.851 <sup>207</sup>	38.09 <sup>231</sup>	31.94 <sup>75</sup>	76.20 <sup>219</sup>	30.753 <sup>332</sup>	74.38 <sup>151</sup>	45.43 <sup>75</sup>	60.31 <sup>339</sup>
19.6	3.058 <sup>165</sup>	40.40 <sup>216</sup>	32.69 <sup>56</sup>	78.39 <sup>260</sup>	31.085 <sup>258</sup>	75.89 <sup>196</sup>	46.18 <sup>59</sup>	63.70 <sup>361</sup>
29.6	3.223 <sup>120</sup>	42.56 <sup>198</sup>	33.25 <sup>37</sup>	80.99 <sup>290</sup>	31.343 <sup>181</sup>	77.85 <sup>231</sup>	46.77 <sup>41</sup>	67.31 <sup>376</sup>
März 10.5	3.343 <sup>79</sup>	44.54 <sup>178</sup>	33.62 <sup>17</sup>	83.89 <sup>309</sup>	31.524 <sup>103</sup>	80.16 <sup>256</sup>	47.18 <sup>23</sup>	71.07 <sup>379</sup>
20.5	3.422 <sup>40</sup>	46.32 <sup>154</sup>	33.79 <sup>3</sup>	86.98 <sup>314</sup>	31.627 <sup>26</sup>	82.72 <sup>270</sup>	47.41 <sup>7</sup>	74.86 <sup>376</sup>
30.5	3.462 <sup>6</sup>	47.86 <sup>130</sup>	33.76 <sup>23</sup>	90.12 <sup>306</sup>	31.653 <sup>45</sup>	85.42 <sup>274</sup>	47.48 <sup>10</sup>	78.62 <sup>364</sup>
Apr. 9.5	3.468 <sup>25</sup>	49.16 <sup>106</sup>	33.53 <sup>40</sup>	93.18 <sup>288</sup>	31.608 <sup>108</sup>	88.16 <sup>265</sup>	47.38 <sup>26</sup>	82.26 <sup>344</sup>
19.4	3.443 <sup>50</sup>	50.22 <sup>81</sup>	33.13 <sup>55</sup>	96.06 <sup>259</sup>	31.500 <sup>164</sup>	90.81 <sup>247</sup>	47.12 <sup>41</sup>	85.70 <sup>318</sup>
29.4	3.393 <sup>71</sup>	51.03 <sup>56</sup>	32.58 <sup>69</sup>	98.65 <sup>221</sup>	31.337 <sup>209</sup>	93.28 <sup>221</sup>	46.71 <sup>53</sup>	88.88 <sup>284</sup>
Mai 9.4	3.322 <sup>88</sup>	51.59 <sup>31</sup>	31.89 <sup>79</sup>	100.86 <sup>177</sup>	31.127 <sup>245</sup>	95.49 <sup>188</sup>	46.18 <sup>66</sup>	91.72 <sup>246</sup>
19.3	3.234 <sup>102</sup>	51.90 <sup>7</sup>	31.10 <sup>86</sup>	102.63 <sup>127</sup>	30.882 <sup>271</sup>	97.37 <sup>147</sup>	45.52 <sup>76</sup>	94.18 <sup>201</sup>
29.3	3.132 <sup>111</sup>	51.97 <sup>16</sup>	30.24 <sup>92</sup>	103.90 <sup>73</sup>	30.611 <sup>286</sup>	98.84 <sup>105</sup>	44.76 <sup>85</sup>	96.19 <sup>153</sup>
Juni 8.3	3.021 <sup>118</sup>	51.81 <sup>39</sup>	29.32 <sup>93</sup>	104.63 <sup>18</sup>	30.325 <sup>295</sup>	99.89 <sup>59</sup>	43.91 <sup>91</sup>	97.72 <sup>101</sup>
18.3	2.903 <sup>122</sup>	51.42 <sup>61</sup>	28.39 <sup>92</sup>	104.81 <sup>37</sup>	30.030 <sup>293</sup>	100.48 <sup>11</sup>	43.00 <sup>94</sup>	98.73 <sup>46</sup>
28.2	2.781 <sup>123</sup>	50.81 <sup>81</sup>	27.47 <sup>90</sup>	104.44 <sup>92</sup>	29.737 <sup>286</sup>	100.59 <sup>37</sup>	42.06 <sup>96</sup>	99.19 <sup>9</sup>
Juli 8.2	2.658 <sup>118</sup>	50.00 <sup>98</sup>	26.57 <sup>85</sup>	103.52 <sup>143</sup>	29.451 <sup>270</sup>	100.22 <sup>84</sup>	41.10 <sup>94</sup>	99.10 <sup>65</sup>
18.2	2.540 <sup>112</sup>	49.02 <sup>113</sup>	25.72 <sup>77</sup>	102.09 <sup>192</sup>	29.181 <sup>248</sup>	99.38 <sup>129</sup>	40.16 <sup>90</sup>	98.45 <sup>118</sup>
28.2	2.428 <sup>99</sup>	47.89 <sup>124</sup>	24.95 <sup>68</sup>	100.17 <sup>237</sup>	28.933 <sup>220</sup>	98.09 <sup>171</sup>	39.26 <sup>82</sup>	97.27 <sup>168</sup>
Aug. 7.1	2.329 <sup>83</sup>	46.65 <sup>131</sup>	24.27 <sup>58</sup>	97.80 <sup>275</sup>	28.713 <sup>186</sup>	96.38 <sup>210</sup>	38.44 <sup>71</sup>	95.59 <sup>213</sup>
17.1	2.246 <sup>61</sup>	45.34 <sup>132</sup>	23.69 <sup>47</sup>	95.05 <sup>310</sup>	28.527 <sup>145</sup>	94.28 <sup>246</sup>	37.73 <sup>58</sup>	93.46 <sup>251</sup>
27.1	2.185 <sup>34</sup>	44.02 <sup>129</sup>	23.22 <sup>33</sup>	91.95 <sup>336</sup>	28.382 <sup>100</sup>	91.82 <sup>276</sup>	37.15 <sup>42</sup>	90.95 <sup>280</sup>
Sept. 6.0	2.151 <sup>0</sup>	42.73 <sup>119</sup>	22.89 <sup>19</sup>	88.59 <sup>358</sup>	28.282 <sup>47</sup>	89.06 <sup>302</sup>	36.73 <sup>24</sup>	88.15 <sup>300</sup>
16.0	2.151 <sup>37</sup>	41.54 <sup>103</sup>	22.70 <sup>4</sup>	85.01 <sup>371</sup>	28.235 <sup>10</sup>	86.04 <sup>323</sup>	36.49 <sup>4</sup>	85.15 <sup>309</sup>
26.0	2.188 <sup>79</sup>	40.51 <sup>81</sup>	22.66 <sup>11</sup>	81.30 <sup>378</sup>	28.245 <sup>72</sup>	82.81 <sup>336</sup>	36.45 <sup>18</sup>	82.06 <sup>306</sup>
Okt. 6.0	2.267 <sup>124</sup>	39.70 <sup>53</sup>	22.77 <sup>28</sup>	77.52 <sup>375</sup>	28.317 <sup>138</sup>	79.45 <sup>344</sup>	36.63 <sup>39</sup>	79.00 <sup>291</sup>
15.9	2.391 <sup>170</sup>	39.17 <sup>19</sup>	23.05 <sup>44</sup>	73.77 <sup>364</sup>	28.455 <sup>205</sup>	76.01 <sup>345</sup>	37.02 <sup>59</sup>	76.09 <sup>265</sup>
25.9	2.561 <sup>215</sup>	38.98 <sup>16</sup>	23.49 <sup>60</sup>	70.13 <sup>346</sup>	28.660 <sup>272</sup>	72.56 <sup>337</sup>	37.61 <sup>79</sup>	73.44 <sup>227</sup>
Nov. 4.9	2.776 <sup>256</sup>	39.14 <sup>56</sup>	24.09 <sup>75</sup>	66.67 <sup>317</sup>	28.932 <sup>338</sup>	69.19 <sup>320</sup>	38.40 <sup>96</sup>	71.17 <sup>180</sup>
14.9	3.032 <sup>292</sup>	39.70 <sup>94</sup>	24.84 <sup>88</sup>	63.50 <sup>279</sup>	29.270 <sup>395</sup>	65.99 <sup>295</sup>	39.36 <sup>110</sup>	69.37 <sup>124</sup>
24.8	3.324 <sup>320</sup>	40.64 <sup>131</sup>	25.72 <sup>100</sup>	60.71 <sup>234</sup>	29.665 <sup>446</sup>	63.04 <sup>261</sup>	40.46 <sup>120</sup>	68.13 <sup>64</sup>
Dez. 4.8	3.644 <sup>338</sup>	41.95 <sup>165</sup>	26.72 <sup>109</sup>	58.37 <sup>181</sup>	30.111 <sup>483</sup>	60.43 <sup>219</sup>	41.66 <sup>126</sup>	67.49 <sup>1</sup>
14.8	3.982 <sup>346</sup>	43.60 <sup>194</sup>	27.81 <sup>115</sup>	56.56 <sup>122</sup>	30.594 <sup>505</sup>	58.24 <sup>169</sup>	42.92 <sup>129</sup>	67.50 <sup>64</sup>
24.7	4.328 <sup>342</sup>	45.54 <sup>216</sup>	28.96 <sup>117</sup>	55.34 <sup>58</sup>	31.099 <sup>513</sup>	56.55 <sup>115</sup>	44.21 <sup>125</sup>	68.14 <sup>127</sup>
34.7	4.670	47.70	30.13	54.76	31.612	55.40	45.46	69.41
Mittl. Ort sec $\delta$ , tg $\delta$	0.439 1.080	29.50 -0.408	28.14 4.834	98.69 +4.729	28.457 1.860	97.17 +1.568	37.39 5.180	65.10 -5.082



Mittlere Zeit Greenw.	460) η Virginis		462) α Crucis med.		466) 20 Comae		465) δ Corvi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	12 <sup>h</sup> 15 <sup>m</sup>	-0° 13'	12 <sup>h</sup> 22 <sup>m</sup>	-6° 39'	12 <sup>h</sup> 25 <sup>m</sup>	+21° 19'	12 <sup>h</sup> 25 <sup>m</sup>	-16° 4'
Jan. 0.7	49.729 <sup>321</sup>	26.86 <sup>207</sup>	10.40 <sup>59</sup>	10.01 <sup>185</sup>	42.978 <sup>339</sup>	66.52 <sup>178</sup>	44.404 <sup>333</sup>	13.27 <sup>217</sup>
10.7	50.050 <sup>305</sup>	28.93 <sup>196</sup>	10.99 <sup>55</sup>	11.86 <sup>233</sup>	43.317 <sup>324</sup>	64.74 <sup>143</sup>	44.737 <sup>317</sup>	15.44 <sup>222</sup>
20.7	50.355 <sup>279</sup>	30.89 <sup>177</sup>	11.54 <sup>50</sup>	14.19 <sup>273</sup>	43.641 <sup>301</sup>	63.31 <sup>105</sup>	45.054 <sup>291</sup>	17.66 <sup>222</sup>
30.7	50.634 <sup>247</sup>	32.66 <sup>155</sup>	12.04 <sup>45</sup>	16.92 <sup>304</sup>	43.942 <sup>267</sup>	62.26 <sup>64</sup>	45.345 <sup>258</sup>	19.88 <sup>213</sup>
Feb. 9.6	50.881 <sup>208</sup>	34.21 <sup>128</sup>	12.49 <sup>37</sup>	19.96 <sup>329</sup>	44.209 <sup>229</sup>	61.62 <sup>24</sup>	45.603 <sup>221</sup>	22.01 <sup>201</sup>
19.6	51.089 <sup>167</sup>	35.49 <sup>102</sup>	12.86 <sup>30</sup>	23.25 <sup>343</sup>	44.438 <sup>186</sup>	61.38 <sup>16</sup>	45.824 <sup>180</sup>	24.02 <sup>183</sup>
29.6	51.256 <sup>125</sup>	36.51 <sup>73</sup>	13.16 <sup>23</sup>	26.68 <sup>349</sup>	44.624 <sup>141</sup>	61.54 <sup>51</sup>	46.004 <sup>138</sup>	25.85 <sup>163</sup>
März 10.5	51.381 <sup>86</sup>	37.24 <sup>47</sup>	13.39 <sup>14</sup>	30.17 <sup>349</sup>	44.765 <sup>97</sup>	62.05 <sup>83</sup>	46.142 <sup>61</sup>	27.48 <sup>141</sup>
20.5	51.467 <sup>49</sup>	37.71 <sup>21</sup>	13.53 <sup>8</sup>	33.66 <sup>339</sup>	44.862 <sup>56</sup>	62.88 <sup>107</sup>	46.241 <sup>99</sup>	28.89 <sup>118</sup>
30.5	51.516 <sup>15</sup>	37.92 <sup>0</sup>	13.61 <sup>0</sup>	37.05 <sup>324</sup>	44.918 <sup>18</sup>	63.95 <sup>125</sup>	46.302 <sup>27</sup>	30.07 <sup>95</sup>
Apr. 9.5	51.531 <sup>15</sup>	37.92 <sup>19</sup>	13.61 <sup>5</sup>	40.29 <sup>301</sup>	44.936 <sup>16</sup>	65.20 <sup>137</sup>	46.329 <sup>3</sup>	31.02 <sup>73</sup>
19.4	51.516 <sup>39</sup>	37.73 <sup>34</sup>	13.56 <sup>12</sup>	43.30 <sup>274</sup>	44.920 <sup>45</sup>	66.57 <sup>142</sup>	46.326 <sup>29</sup>	31.75 <sup>51</sup>
29.4	51.477 <sup>59</sup>	37.39 <sup>47</sup>	13.44 <sup>17</sup>	46.04 <sup>241</sup>	44.875 <sup>69</sup>	67.99 <sup>142</sup>	46.297 <sup>51</sup>	32.26 <sup>30</sup>
Mai 9.4	51.418 <sup>75</sup>	36.92 <sup>56</sup>	13.27 <sup>22</sup>	48.45 <sup>203</sup>	44.806 <sup>88</sup>	69.41 <sup>134</sup>	46.246 <sup>70</sup>	32.56 <sup>10</sup>
19.4	51.343 <sup>89</sup>	36.36 <sup>63</sup>	13.05 <sup>25</sup>	50.48 <sup>161</sup>	44.718 <sup>102</sup>	70.75 <sup>123</sup>	46.176 <sup>85</sup>	32.66 <sup>9</sup>
29.3	51.254 <sup>97</sup>	35.73 <sup>67</sup>	12.80 <sup>30</sup>	52.09 <sup>116</sup>	44.616 <sup>114</sup>	71.98 <sup>108</sup>	46.091 <sup>98</sup>	32.57 <sup>26</sup>
Juni 8.3	51.157 <sup>103</sup>	35.06 <sup>70</sup>	12.50 <sup>31</sup>	53.25 <sup>69</sup>	44.502 <sup>121</sup>	73.06 <sup>90</sup>	45.993 <sup>106</sup>	32.31 <sup>43</sup>
18.3	51.054 <sup>107</sup>	34.36 <sup>69</sup>	12.19 <sup>34</sup>	53.94 <sup>19</sup>	44.381 <sup>124</sup>	73.96 <sup>69</sup>	45.887 <sup>113</sup>	31.88 <sup>58</sup>
28.2	50.947 <sup>108</sup>	33.67 <sup>69</sup>	11.85 <sup>35</sup>	54.13 <sup>30</sup>	44.257 <sup>126</sup>	74.65 <sup>48</sup>	45.774 <sup>117</sup>	31.30 <sup>73</sup>
Juli 8.2	50.839 <sup>105</sup>	32.98 <sup>64</sup>	11.50 <sup>34</sup>	53.83 <sup>78</sup>	44.131 <sup>122</sup>	75.13 <sup>23</sup>	45.657 <sup>116</sup>	30.57 <sup>83</sup>
18.2	50.734 <sup>99</sup>	32.34 <sup>60</sup>	11.16 <sup>33</sup>	53.05 <sup>125</sup>	44.009 <sup>117</sup>	75.36 <sup>1</sup>	45.541 <sup>112</sup>	29.74 <sup>93</sup>
28.2	50.635 <sup>90</sup>	31.74 <sup>52</sup>	10.83 <sup>31</sup>	51.80 <sup>168</sup>	43.892 <sup>106</sup>	75.35 <sup>26</sup>	45.429 <sup>103</sup>	28.81 <sup>99</sup>
Aug. 7.1	50.545 <sup>75</sup>	31.22 <sup>41</sup>	10.52 <sup>27</sup>	50.12 <sup>205</sup>	43.786 <sup>92</sup>	75.09 <sup>51</sup>	45.326 <sup>91</sup>	27.82 <sup>102</sup>
17.1	50.470 <sup>58</sup>	30.81 <sup>29</sup>	10.25 <sup>21</sup>	48.07 <sup>237</sup>	43.694 <sup>74</sup>	74.58 <sup>77</sup>	45.235 <sup>72</sup>	26.80 <sup>100</sup>
27.1	50.412 <sup>34</sup>	30.52 <sup>13</sup>	10.04 <sup>16</sup>	45.70 <sup>259</sup>	43.620 <sup>49</sup>	73.81 <sup>103</sup>	45.163 <sup>48</sup>	25.80 <sup>95</sup>
Sept. 6.1	50.378 <sup>7</sup>	30.39 <sup>4</sup>	9.88 <sup>9</sup>	43.11 <sup>273</sup>	43.571 <sup>21</sup>	72.78 <sup>129</sup>	45.115 <sup>19</sup>	24.85 <sup>84</sup>
16.0	50.371 <sup>28</sup>	30.43 <sup>27</sup>	9.79 <sup>0</sup>	40.38 <sup>277</sup>	43.550 <sup>13</sup>	71.49 <sup>153</sup>	45.096 <sup>18</sup>	24.01 <sup>67</sup>
26.0	50.399 <sup>64</sup>	30.70 <sup>50</sup>	9.79 <sup>8</sup>	37.61 <sup>270</sup>	43.563 <sup>51</sup>	69.96 <sup>177</sup>	45.114 <sup>56</sup>	23.34 <sup>45</sup>
Okt. 6.0	50.463 <sup>105</sup>	31.20 <sup>76</sup>	9.87 <sup>18</sup>	34.91 <sup>251</sup>	43.614 <sup>93</sup>	68.19 <sup>199</sup>	45.170 <sup>100</sup>	22.89 <sup>21</sup>
15.9	50.568 <sup>147</sup>	31.96 <sup>103</sup>	10.05 <sup>27</sup>	32.40 <sup>222</sup>	43.707 <sup>137</sup>	66.20 <sup>218</sup>	45.270 <sup>146</sup>	22.68 <sup>10</sup>
25.9	50.715 <sup>190</sup>	32.99 <sup>129</sup>	10.32 <sup>35</sup>	30.18 <sup>184</sup>	43.844 <sup>182</sup>	64.02 <sup>233</sup>	45.416 <sup>191</sup>	22.78 <sup>42</sup>
Nov. 4.9	50.905 <sup>230</sup>	34.28 <sup>155</sup>	10.67 <sup>44</sup>	28.34 <sup>13</sup>	44.026 <sup>225</sup>	61.69 <sup>244</sup>	45.607 <sup>233</sup>	23.20 <sup>77</sup>
14.9	51.135 <sup>265</sup>	35.83 <sup>176</sup>	11.11 <sup>50</sup>	26.99 <sup>85</sup>	44.251 <sup>264</sup>	59.25 <sup>249</sup>	45.840 <sup>272</sup>	23.97 <sup>110</sup>
24.8	51.400 <sup>294</sup>	37.59 <sup>194</sup>	11.61 <sup>55</sup>	26.16 <sup>24</sup>	44.515 <sup>297</sup>	56.76 <sup>246</sup>	46.112 <sup>301</sup>	25.07 <sup>142</sup>
Dez. 4.8	51.694 <sup>314</sup>	39.53 <sup>206</sup>	12.16 <sup>59</sup>	25.92 <sup>35</sup>	44.812 <sup>322</sup>	54.30 <sup>237</sup>	46.413 <sup>324</sup>	26.49 <sup>170</sup>
14.8	52.008 <sup>325</sup>	41.59 <sup>212</sup>	12.75 <sup>59</sup>	26.27 <sup>95</sup>	45.134 <sup>336</sup>	51.93 <sup>219</sup>	46.737 <sup>335</sup>	28.19 <sup>192</sup>
24.8	52.333 <sup>325</sup>	43.71 <sup>210</sup>	13.34 <sup>60</sup>	27.22 <sup>151</sup>	45.470 <sup>341</sup>	49.74 <sup>195</sup>	47.072 <sup>336</sup>	30.11 <sup>210</sup>
34.7	52.658	45.81	13.94	28.73	45.811	47.79	47.408	32.21
Mittl. Ort sec δ, tg δ	48.744 1.000	20.37 -0.004	8.51 2.177	22.47 -1.934	42.225 1.074	80.14 +0.391	43.348 1.041	12.69 -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.
1920	$12^h 29^m$	$+41^\circ 46'$	$12^h 30^m$	$+70^\circ 13'$	$12^h 30^m$	$-22^\circ 57'$	$12^h 31^m$	$+18^\circ 48'$
Jan. 0.7	57.352 <sup>394</sup>	71.57 <sup>138</sup>	4.29 <sup>75</sup>	20.05 <sup>69</sup>	11.949 <sup>345</sup>	14.35 <sup>215</sup>	7.840 <sup>335</sup>	49.59 <sup>184</sup>
10.7	57.746 <sup>381</sup>	70.19 <sup>87</sup>	5.04 <sup>72</sup>	19.36 <sup>3</sup>	12.294 <sup>328</sup>	16.50 <sup>228</sup>	8.175 <sup>323</sup>	47.75 <sup>152</sup>
20.7	58.127 <sup>355</sup>	69.32 <sup>33</sup>	5.76 <sup>68</sup>	19.33 <sup>60</sup>	12.622 <sup>303</sup>	18.78 <sup>234</sup>	8.498 <sup>299</sup>	46.23 <sup>117</sup>
30.7	58.482 <sup>318</sup>	68.99 <sup>21</sup>	6.44 <sup>62</sup>	19.93 <sup>123</sup>	12.925 <sup>269</sup>	21.12 <sup>233</sup>	8.797 <sup>268</sup>	45.06 <sup>77</sup>
Feb. 9.6	58.800 <sup>272</sup>	69.20 <sup>72</sup>	7.06 <sup>52</sup>	21.16 <sup>178</sup>	13.194 <sup>231</sup>	23.45 <sup>226</sup>	9.065 <sup>230</sup>	44.29 <sup>38</sup>
19.6	59.072 <sup>221</sup>	69.92 <sup>119</sup>	7.58 <sup>42</sup>	22.94 <sup>225</sup>	13.425 <sup>190</sup>	25.71 <sup>214</sup>	9.295 <sup>188</sup>	43.91 <sup>1</sup>
29.6	59.293 <sup>166</sup>	71.11 <sup>158</sup>	8.00 <sup>30</sup>	25.19 <sup>263</sup>	13.615 <sup>147</sup>	27.85 <sup>198</sup>	9.483 <sup>145</sup>	43.92 <sup>37</sup>
März 10.6	59.459 <sup>111</sup>	72.69 <sup>190</sup>	8.30 <sup>18</sup>	27.82 <sup>289</sup>	13.762 <sup>107</sup>	29.83 <sup>179</sup>	9.628 <sup>103</sup>	44.29 <sup>67</sup>
20.5	59.570 <sup>56</sup>	74.59 <sup>212</sup>	8.48 <sup>6</sup>	30.71 <sup>304</sup>	13.869 <sup>68</sup>	31.62 <sup>157</sup>	9.731 <sup>61</sup>	44.96 <sup>94</sup>
30.5	59.626 <sup>7</sup>	76.71 <sup>226</sup>	8.54 <sup>5</sup>	33.75 <sup>305</sup>	13.937 <sup>33</sup>	33.19 <sup>136</sup>	9.792 <sup>25</sup>	45.90 <sup>112</sup>
Apr. 9.5	59.633 <sup>38</sup>	78.97 <sup>228</sup>	8.49 <sup>17</sup>	36.80 <sup>294</sup>	13.970 <sup>2</sup>	34.55 <sup>112</sup>	9.817 <sup>9</sup>	47.02 <sup>126</sup>
19.4	59.595 <sup>78</sup>	81.25 <sup>223</sup>	8.32 <sup>27</sup>	39.74 <sup>275</sup>	13.972 <sup>27</sup>	35.67 <sup>89</sup>	9.808 <sup>37</sup>	48.28 <sup>133</sup>
29.4	59.517 <sup>111</sup>	83.48 <sup>208</sup>	8.05 <sup>34</sup>	42.49 <sup>245</sup>	13.945 <sup>50</sup>	36.56 <sup>65</sup>	9.771 <sup>62</sup>	49.61 <sup>133</sup>
Mai 9.4	59.406 <sup>137</sup>	85.56 <sup>188</sup>	7.71 <sup>42</sup>	44.94 <sup>206</sup>	13.895 <sup>70</sup>	37.21 <sup>41</sup>	9.709 <sup>80</sup>	50.94 <sup>129</sup>
19.4	59.269 <sup>157</sup>	87.44 <sup>161</sup>	7.29 <sup>47</sup>	47.00 <sup>163</sup>	13.825 <sup>87</sup>	37.62 <sup>18</sup>	9.629 <sup>97</sup>	52.23 <sup>121</sup>
29.3	59.112 <sup>173</sup>	89.05 <sup>129</sup>	6.82 <sup>51</sup>	48.63 <sup>114</sup>	13.738 <sup>102</sup>	37.80 <sup>4</sup>	9.532 <sup>107</sup>	53.44 <sup>107</sup>
Juni 8.3	58.939 <sup>182</sup>	90.34 <sup>94</sup>	6.31 <sup>52</sup>	49.77 <sup>62</sup>	13.636 <sup>112</sup>	37.76 <sup>27</sup>	9.425 <sup>116</sup>	54.51 <sup>92</sup>
18.3	58.757 <sup>186</sup>	91.28 <sup>56</sup>	5.79 <sup>54</sup>	50.39 <sup>8</sup>	13.524 <sup>120</sup>	37.49 <sup>48</sup>	9.309 <sup>121</sup>	55.43 <sup>73</sup>
28.3	58.571 <sup>186</sup>	91.84 <sup>18</sup>	5.25 <sup>53</sup>	50.47 <sup>44</sup>	13.404 <sup>125</sup>	37.01 <sup>69</sup>	9.188 <sup>122</sup>	56.16 <sup>53</sup>
Juli 8.2	58.385 <sup>180</sup>	92.02 <sup>22</sup>	4.72 <sup>51</sup>	50.03 <sup>97</sup>	13.279 <sup>125</sup>	36.32 <sup>86</sup>	9.066 <sup>121</sup>	56.69 <sup>32</sup>
18.2	58.205 <sup>171</sup>	91.80 <sup>61</sup>	4.21 <sup>48</sup>	49.06 <sup>146</sup>	13.154 <sup>122</sup>	35.46 <sup>102</sup>	8.945 <sup>116</sup>	57.01 <sup>9</sup>
28.2	58.034 <sup>157</sup>	91.19 <sup>99</sup>	3.73 <sup>43</sup>	47.60 <sup>193</sup>	13.032 <sup>114</sup>	34.44 <sup>115</sup>	8.829 <sup>107</sup>	57.10 <sup>15</sup>
Aug. 7.1	57.877 <sup>137</sup>	90.20 <sup>136</sup>	3.30 <sup>38</sup>	45.67 <sup>235</sup>	12.918 <sup>101</sup>	33.29 <sup>123</sup>	8.722 <sup>94</sup>	56.95 <sup>38</sup>
17.1	57.740 <sup>113</sup>	88.84 <sup>170</sup>	2.92 <sup>32</sup>	43.32 <sup>274</sup>	12.817 <sup>82</sup>	32.06 <sup>127</sup>	8.628 <sup>76</sup>	56.57 <sup>63</sup>
27.1	57.627 <sup>83</sup>	87.14 <sup>202</sup>	2.60 <sup>25</sup>	40.58 <sup>306</sup>	12.735 <sup>57</sup>	30.79 <sup>127</sup>	8.552 <sup>53</sup>	55.94 <sup>89</sup>
Sept. 6.1	57.544 <sup>47</sup>	85.12 <sup>231</sup>	2.35 <sup>16</sup>	37.52 <sup>334</sup>	12.678 <sup>25</sup>	29.52 <sup>119</sup>	8.499 <sup>26</sup>	55.05 <sup>113</sup>
16.0	57.497 <sup>6</sup>	82.81 <sup>257</sup>	2.19 <sup>8</sup>	34.18 <sup>353</sup>	12.653 <sup>12</sup>	28.33 <sup>107</sup>	8.473 <sup>8</sup>	53.92 <sup>138</sup>
26.0	57.491 <sup>39</sup>	80.24 <sup>278</sup>	2.11 <sup>2</sup>	30.65 <sup>367</sup>	12.665 <sup>54</sup>	27.26 <sup>87</sup>	8.481 <sup>45</sup>	52.54 <sup>163</sup>
Okt. 6.0	57.530 <sup>89</sup>	77.46 <sup>295</sup>	2.13 <sup>12</sup>	26.98 <sup>373</sup>	12.719 <sup>100</sup>	26.39 <sup>61</sup>	8.526 <sup>87</sup>	50.91 <sup>185</sup>
16.0	57.619 <sup>142</sup>	74.51 <sup>305</sup>	2.25 <sup>23</sup>	23.25 <sup>370</sup>	12.819 <sup>147</sup>	25.78 <sup>32</sup>	8.613 <sup>131</sup>	49.06 <sup>206</sup>
25.9	57.761 <sup>194</sup>	71.46 <sup>309</sup>	2.48 <sup>33</sup>	19.55 <sup>359</sup>	12.966 <sup>195</sup>	25.46 <sup>3</sup>	8.744 <sup>176</sup>	47.00 <sup>222</sup>
Nov. 4.9	57.955 <sup>247</sup>	68.37 <sup>306</sup>	2.81 <sup>44</sup>	15.96 <sup>338</sup>	13.161 <sup>239</sup>	25.49 <sup>40</sup>	8.920 <sup>219</sup>	44.78 <sup>235</sup>
14.9	58.202 <sup>294</sup>	65.31 <sup>295</sup>	3.25 <sup>52</sup>	12.58 <sup>308</sup>	13.400 <sup>279</sup>	25.89 <sup>77</sup>	9.139 <sup>258</sup>	42.43 <sup>242</sup>
24.8	58.496 <sup>335</sup>	62.36 <sup>275</sup>	3.77 <sup>61</sup>	9.50 <sup>270</sup>	13.679 <sup>312</sup>	26.66 <sup>114</sup>	9.397 <sup>291</sup>	40.01 <sup>243</sup>
Dez. 4.8	58.831 <sup>367</sup>	59.61 <sup>247</sup>	4.38 <sup>68</sup>	6.80 <sup>223</sup>	13.991 <sup>334</sup>	27.80 <sup>149</sup>	9.688 <sup>317</sup>	37.58 <sup>236</sup>
14.8	59.198 <sup>387</sup>	57.14 <sup>210</sup>	5.06 <sup>72</sup>	4.57 <sup>168</sup>	14.325 <sup>346</sup>	29.29 <sup>178</sup>	10.005 <sup>331</sup>	35.22 <sup>222</sup>
24.8	59.585 <sup>395</sup>	55.04 <sup>167</sup>	5.78 <sup>75</sup>	2.89 <sup>107</sup>	14.671 <sup>347</sup>	31.07 <sup>202</sup>	10.336 <sup>337</sup>	33.00 <sup>200</sup>
34.7	59.980	53.37	6.53	1.82	15.018	33.09	10.673	31.00
Mittl. Ort sec $\delta$ , tg $\delta$	56.848 1.341	90.99 +0.894	4.60 2.956	44.53 +2.782	10.855 1.086	16.27 -0.424	7.101 1.056	62.23 +0.341

Mittlere Zeit Greenw.	474) $\alpha$ Muscae		476) $\gamma$ Centauri		478) 76 Ursae maj.		481) $\beta$ Crucis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$12^h 32^m$	$-68^\circ 41'$	$12^h 37^m$	$-48^\circ 31'$	$12^h 38^m$	$+63^\circ 8'$	$12^h 43^m$	$-59^\circ 14'$
Jan. 0.7	25.96 <sup>72</sup>	28.31 <sup>160</sup>	7.149 <sup>444</sup>	4.50 <sup>188</sup>	4.50 <sup>59</sup>	44.16 <sup>97</sup>	3.680 <sup>549</sup>	53.55 <sup>164</sup>
10.7	26.68 <sup>69</sup>	29.91 <sup>212</sup>	7.593 <sup>423</sup>	6.38 <sup>227</sup>	5.09 <sup>57</sup>	43.19 <sup>34</sup>	4.229 <sup>525</sup>	55.19 <sup>211</sup>
20.7	27.37 <sup>63</sup>	32.03 <sup>257</sup>	8.016 <sup>390</sup>	8.65 <sup>257</sup>	5.66 <sup>54</sup>	42.85 <sup>29</sup>	4.754 <sup>487</sup>	57.30 <sup>250</sup>
30.7	28.00 <sup>56</sup>	34.60 <sup>295</sup>	8.406 <sup>349</sup>	11.22 <sup>281</sup>	6.20 <sup>48</sup>	43.14 <sup>92</sup>	5.241 <sup>437</sup>	59.80 <sup>283</sup>
Feb. 9.6	28.56 <sup>48</sup>	37.55 <sup>323</sup>	8.755 <sup>300</sup>	14.03 <sup>296</sup>	6.68 <sup>42</sup>	44.06 <sup>148</sup>	5.678 <sup>379</sup>	62.63 <sup>307</sup>
19.6	29.04 <sup>39</sup>	40.78 <sup>344</sup>	9.055 <sup>249</sup>	16.99 <sup>303</sup>	7.10 <sup>35</sup>	45.54 <sup>198</sup>	6.057 <sup>315</sup>	65.70 <sup>324</sup>
29.6	29.43 <sup>29</sup>	44.22 <sup>356</sup>	9.304 <sup>195</sup>	20.02 <sup>305</sup>	7.45 <sup>25</sup>	47.52 <sup>239</sup>	6.372 <sup>249</sup>	68.94 <sup>331</sup>
März 10.6	29.72 <sup>21</sup>	47.78 <sup>359</sup>	9.499 <sup>141</sup>	23.07 <sup>298</sup>	7.70 <sup>17</sup>	49.91 <sup>269</sup>	6.621 <sup>183</sup>	72.25 <sup>332</sup>
20.5	29.93 <sup>12</sup>	51.37 <sup>354</sup>	9.640 <sup>91</sup>	26.05 <sup>286</sup>	7.87 <sup>7</sup>	52.60 <sup>287</sup>	6.804 <sup>118</sup>	75.57 <sup>325</sup>
30.5	30.05 <sup>2</sup>	54.91 <sup>343</sup>	9.731 <sup>43</sup>	28.91 <sup>269</sup>	7.94 <sup>1</sup>	55.47 <sup>294</sup>	6.922 <sup>55</sup>	78.82 <sup>313</sup>
Apr. 9.5	30.07 <sup>5</sup>	58.34 <sup>324</sup>	9.774 <sup>2</sup>	31.60 <sup>247</sup>	7.93 <sup>9</sup>	58.41 <sup>289</sup>	6.977 <sup>3</sup>	81.95 <sup>294</sup>
19.4	30.02 <sup>14</sup>	61.58 <sup>300</sup>	9.772 <sup>42</sup>	34.07 <sup>221</sup>	7.84 <sup>17</sup>	61.30 <sup>273</sup>	6.974 <sup>58</sup>	84.89 <sup>269</sup>
29.4	29.88 <sup>21</sup>	64.58 <sup>268</sup>	9.730 <sup>79</sup>	36.28 <sup>191</sup>	7.67 <sup>22</sup>	64.03 <sup>249</sup>	6.916 <sup>109</sup>	87.58 <sup>240</sup>
Mai 9.4	29.67 <sup>27</sup>	67.26 <sup>231</sup>	9.651 <sup>112</sup>	38.19 <sup>158</sup>	7.45 <sup>28</sup>	66.52 <sup>215</sup>	6.807 <sup>155</sup>	89.98 <sup>205</sup>
19.4	29.40 <sup>33</sup>	69.57 <sup>190</sup>	9.539 <sup>140</sup>	39.77 <sup>123</sup>	7.17 <sup>32</sup>	68.67 <sup>176</sup>	6.652 <sup>195</sup>	92.03 <sup>167</sup>
29.3	29.07 <sup>37</sup>	71.47 <sup>145</sup>	9.399 <sup>165</sup>	41.00 <sup>84</sup>	6.85 <sup>35</sup>	70.43 <sup>131</sup>	6.457 <sup>231</sup>	93.70 <sup>125</sup>
Juni 8.3	28.70 <sup>42</sup>	72.92 <sup>97</sup>	9.234 <sup>184</sup>	41.84 <sup>44</sup>	6.50 <sup>37</sup>	71.74 <sup>83</sup>	6.226 <sup>259</sup>	94.95 <sup>81</sup>
18.3	28.28 <sup>44</sup>	73.89 <sup>46</sup>	9.050 <sup>200</sup>	42.28 <sup>4</sup>	6.13 <sup>37</sup>	72.57 <sup>33</sup>	5.967 <sup>282</sup>	95.76 <sup>35</sup>
28.3	27.84 <sup>46</sup>	74.35 <sup>7</sup>	8.850 <sup>208</sup>	42.32 <sup>37</sup>	5.76 <sup>37</sup>	72.90 <sup>18</sup>	5.685 <sup>297</sup>	96.11 <sup>12</sup>
Juli 8.2	27.38 <sup>46</sup>	74.28 <sup>58</sup>	8.642 <sup>213</sup>	41.95 <sup>77</sup>	5.39 <sup>37</sup>	72.72 <sup>69</sup>	5.388 <sup>302</sup>	95.99 <sup>59</sup>
18.2	26.92 <sup>45</sup>	73.70 <sup>108</sup>	8.429 <sup>208</sup>	41.18 <sup>114</sup>	5.02 <sup>35</sup>	72.03 <sup>117</sup>	5.086 <sup>298</sup>	95.40 <sup>104</sup>
28.2	26.47 <sup>42</sup>	72.62 <sup>155</sup>	8.221 <sup>196</sup>	40.04 <sup>148</sup>	4.67 <sup>31</sup>	70.86 <sup>164</sup>	4.788 <sup>282</sup>	94.36 <sup>146</sup>
Aug. 7.1	26.05 <sup>38</sup>	71.07 <sup>197</sup>	8.025 <sup>177</sup>	38.56 <sup>178</sup>	4.36 <sup>29</sup>	69.22 <sup>207</sup>	4.506 <sup>256</sup>	92.90 <sup>184</sup>
17.1	25.67 <sup>31</sup>	69.10 <sup>234</sup>	7.848 <sup>148</sup>	36.78 <sup>202</sup>	4.07 <sup>23</sup>	67.15 <sup>247</sup>	4.250 <sup>218</sup>	91.06 <sup>216</sup>
27.1	25.36 <sup>24</sup>	66.76 <sup>261</sup>	7.700 <sup>110</sup>	34.76 <sup>219</sup>	3.84 <sup>19</sup>	64.68 <sup>281</sup>	4.032 <sup>168</sup>	88.90 <sup>240</sup>
Sept. 6.1	25.12 <sup>14</sup>	64.15 <sup>281</sup>	7.590 <sup>64</sup>	32.57 <sup>228</sup>	3.65 <sup>13</sup>	61.87 <sup>311</sup>	3.864 <sup>107</sup>	86.50 <sup>257</sup>
16.0	24.98 <sup>5</sup>	61.34 <sup>290</sup>	7.526 <sup>10</sup>	30.29 <sup>228</sup>	3.52 <sup>6</sup>	58.76 <sup>334</sup>	3.757 <sup>36</sup>	83.93 <sup>264</sup>
26.0	24.93 <sup>7</sup>	58.44 <sup>287</sup>	7.516 <sup>50</sup>	28.01 <sup>218</sup>	3.46 <sup>1</sup>	55.42 <sup>351</sup>	3.721 <sup>42</sup>	81.29 <sup>259</sup>
Okt. 6.0	25.00 <sup>19</sup>	55.57 <sup>274</sup>	7.566 <sup>115</sup>	25.83 <sup>199</sup>	3.47 <sup>8</sup>	51.91 <sup>362</sup>	3.763 <sup>125</sup>	78.70 <sup>245</sup>
16.0	25.19 <sup>30</sup>	52.83 <sup>248</sup>	7.681 <sup>180</sup>	23.84 <sup>170</sup>	3.55 <sup>17</sup>	48.29 <sup>363</sup>	3.888 <sup>210</sup>	76.25 <sup>220</sup>
25.9	25.49 <sup>41</sup>	50.35 <sup>213</sup>	7.861 <sup>245</sup>	22.14 <sup>134</sup>	3.72 <sup>25</sup>	44.66 <sup>358</sup>	4.098 <sup>293</sup>	74.05 <sup>185</sup>
Nov. 4.9	25.90 <sup>51</sup>	48.22 <sup>168</sup>	8.106 <sup>306</sup>	20.80 <sup>90</sup>	3.97 <sup>33</sup>	41.08 <sup>342</sup>	4.391 <sup>369</sup>	72.20 <sup>142</sup>
14.9	26.41 <sup>60</sup>	46.54 <sup>115</sup>	8.412 <sup>358</sup>	19.90 <sup>42</sup>	4.30 <sup>41</sup>	37.66 <sup>318</sup>	4.760 <sup>437</sup>	70.78 <sup>92</sup>
24.8	27.01 <sup>66</sup>	45.39 <sup>58</sup>	8.770 <sup>400</sup>	19.48 <sup>10</sup>	4.71 <sup>47</sup>	34.48 <sup>284</sup>	5.197 <sup>489</sup>	69.86 <sup>38</sup>
Dez. 4.8	27.67 <sup>71</sup>	44.81 <sup>4</sup>	9.170 <sup>429</sup>	19.58 <sup>62</sup>	5.18 <sup>53</sup>	31.64 <sup>242</sup>	5.686 <sup>528</sup>	69.48 <sup>20</sup>
14.8	28.38 <sup>74</sup>	44.85 <sup>64</sup>	9.599 <sup>446</sup>	20.20 <sup>113</sup>	5.71 <sup>56</sup>	29.22 <sup>191</sup>	6.214 <sup>549</sup>	69.68 <sup>76</sup>
24.8	29.12 <sup>73</sup>	45.49 <sup>124</sup>	10.045 <sup>446</sup>	21.33 <sup>160</sup>	6.27 <sup>58</sup>	27.31 <sup>134</sup>	6.763 <sup>551</sup>	70.44 <sup>131</sup>
34.7	29.85	46.73	10.491	22.93	6.85	25.97	7.314	71.75
Mittl. Ort sec $\delta$ , tg $\delta$	23.87 2.752	42.11 -2.564	5.773 1.510	14.31 -1.131	4.59 2.214	67.56 +1.975	2.110 1.956	65.99 -1.681

Mittlere Zeit Greenw.	482) $\alpha$ Centauri		483) $\epsilon$ Ursae maj.		484) $\delta$ Virginis		485) $\iota$ Can. ven. sq.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$12^h 48^m$	$-39^\circ 44'$	$12^h 50^m$	$+56^\circ 22'$	$12^h 51^m$	$+3^\circ 49'$	$12^h 52^m$	$+38^\circ 44'$
Jan. 0.8	61.095 <sup>400</sup>	31.25 <sup>187</sup>	30.852 <sup>495</sup>	75.80 <sup>128</sup>	35.117 <sup>325</sup>	47.81 <sup>205</sup>	17.651 <sup>382</sup>	42.56 <sup>165</sup>
10.7	61.495 <sup>384</sup>	33.12 <sup>219</sup>	31.347 <sup>486</sup>	74.52 <sup>68</sup>	35.442 <sup>316</sup>	45.76 <sup>189</sup>	18.033 <sup>374</sup>	40.91 <sup>115</sup>
20.7	61.879 <sup>358</sup>	35.31 <sup>242</sup>	31.833 <sup>462</sup>	73.84 <sup>6</sup>	35.758 <sup>295</sup>	43.87 <sup>167</sup>	18.407 <sup>354</sup>	39.76 <sup>63</sup>
30.7	62.237 <sup>323</sup>	37.73 <sup>259</sup>	32.295 <sup>423</sup>	73.78 <sup>56</sup>	36.053 <sup>269</sup>	42.20 <sup>141</sup>	18.761 <sup>322</sup>	39.13 <sup>10</sup>
Feb. 9.6	62.560 <sup>282</sup>	40.32 <sup>268</sup>	32.718 <sup>370</sup>	74.34 <sup>114</sup>	36.322 <sup>235</sup>	40.79 <sup>112</sup>	19.083 <sup>284</sup>	39.03 <sup>43</sup>
19.6	62.842 <sup>238</sup>	43.00 <sup>271</sup>	33.088 <sup>308</sup>	75.48 <sup>165</sup>	36.557 <sup>198</sup>	39.67 <sup>81</sup>	19.367 <sup>237</sup>	39.46 <sup>92</sup>
29.6	63.080 <sup>191</sup>	45.71 <sup>267</sup>	33.396 <sup>239</sup>	77.13 <sup>210</sup>	36.755 <sup>159</sup>	38.86 <sup>51</sup>	19.604 <sup>187</sup>	40.38 <sup>135</sup>
März 10.6	63.271 <sup>145</sup>	48.38 <sup>258</sup>	33.635 <sup>166</sup>	79.23 <sup>243</sup>	36.914 <sup>120</sup>	38.35 <sup>21</sup>	19.791 <sup>136</sup>	41.73 <sup>170</sup>
20.5	63.416 <sup>101</sup>	50.96 <sup>245</sup>	33.801 <sup>94</sup>	81.66 <sup>266</sup>	37.034 <sup>84</sup>	38.14 <sup>5</sup>	19.927 <sup>86</sup>	43.43 <sup>197</sup>
30.5	63.517 <sup>59</sup>	53.41 <sup>226</sup>	33.895 <sup>23</sup>	84.32 <sup>279</sup>	37.118 <sup>49</sup>	38.19 <sup>28</sup>	20.013 <sup>38</sup>	45.40 <sup>216</sup>
Apr. 9.5	63.576 <sup>21</sup>	55.67 <sup>205</sup>	33.918 <sup>42</sup>	87.11 <sup>280</sup>	37.167 <sup>18</sup>	38.47 <sup>46</sup>	20.051 <sup>6</sup>	47.56 <sup>223</sup>
19.5	63.597 <sup>14</sup>	57.72 <sup>181</sup>	33.876 <sup>101</sup>	89.91 <sup>270</sup>	37.185 <sup>9</sup>	38.93 <sup>61</sup>	20.045 <sup>46</sup>	49.79 <sup>223</sup>
29.4	63.583 <sup>46</sup>	59.53 <sup>154</sup>	33.775 <sup>152</sup>	92.61 <sup>251</sup>	37.176 <sup>34</sup>	39.54 <sup>72</sup>	19.999 <sup>79</sup>	52.02 <sup>214</sup>
Mai 9.4	63.537 <sup>74</sup>	61.07 <sup>126</sup>	33.623 <sup>195</sup>	95.12 <sup>224</sup>	37.142 <sup>53</sup>	40.26 <sup>79</sup>	19.920 <sup>107</sup>	54.16 <sup>198</sup>
19.4	63.463 <sup>100</sup>	62.33 <sup>94</sup>	33.428 <sup>231</sup>	97.36 <sup>189</sup>	37.089 <sup>71</sup>	41.05 <sup>82</sup>	19.813 <sup>131</sup>	56.14 <sup>175</sup>
29.3	63.363 <sup>121</sup>	63.27 <sup>62</sup>	33.197 <sup>257</sup>	99.25 <sup>150</sup>	37.018 <sup>85</sup>	41.87 <sup>82</sup>	19.682 <sup>149</sup>	57.89 <sup>146</sup>
Juni 8.3	63.242 <sup>140</sup>	63.89 <sup>28</sup>	32.940 <sup>276</sup>	100.75 <sup>106</sup>	36.933 <sup>97</sup>	42.69 <sup>80</sup>	19.533 <sup>163</sup>	59.35 <sup>115</sup>
18.3	63.102 <sup>155</sup>	64.17 <sup>5</sup>	32.664 <sup>287</sup>	101.81 <sup>59</sup>	36.836 <sup>105</sup>	43.49 <sup>75</sup>	19.370 <sup>172</sup>	60.50 <sup>79</sup>
28.3	62.947 <sup>166</sup>	64.12 <sup>39</sup>	32.377 <sup>291</sup>	102.40 <sup>10</sup>	36.731 <sup>112</sup>	44.24 <sup>69</sup>	19.198 <sup>176</sup>	61.29 <sup>43</sup>
Juli 8.2	62.781 <sup>170</sup>	63.73 <sup>72</sup>	32.086 <sup>286</sup>	102.50 <sup>37</sup>	36.619 <sup>114</sup>	44.93 <sup>61</sup>	19.022 <sup>176</sup>	61.72 <sup>4</sup>
18.2	62.611 <sup>170</sup>	63.01 <sup>103</sup>	31.800 <sup>277</sup>	102.13 <sup>85</sup>	36.505 <sup>114</sup>	45.54 <sup>51</sup>	18.846 <sup>172</sup>	61.76 <sup>34</sup>
28.2	62.441 <sup>164</sup>	61.98 <sup>131</sup>	31.523 <sup>258</sup>	101.28 <sup>130</sup>	36.391 <sup>110</sup>	46.05 <sup>39</sup>	18.674 <sup>162</sup>	61.42 <sup>72</sup>
Aug. 7.2	62.277 <sup>150</sup>	60.67 <sup>155</sup>	31.265 <sup>234</sup>	99.98 <sup>174</sup>	36.281 <sup>100</sup>	46.44 <sup>26</sup>	18.512 <sup>148</sup>	60.70 <sup>109</sup>
17.1	62.127 <sup>127</sup>	59.12 <sup>173</sup>	31.031 <sup>202</sup>	98.24 <sup>214</sup>	36.181 <sup>87</sup>	46.70 <sup>10</sup>	18.364 <sup>128</sup>	59.61 <sup>145</sup>
27.1	62.000 <sup>99</sup>	57.39 <sup>186</sup>	30.829 <sup>163</sup>	96.10 <sup>251</sup>	36.094 <sup>67</sup>	46.80 <sup>7</sup>	18.236 <sup>102</sup>	58.16 <sup>178</sup>
Sept. 6.1	61.901 <sup>61</sup>	55.53 <sup>191</sup>	30.666 <sup>118</sup>	93.59 <sup>282</sup>	36.027 <sup>41</sup>	46.73 <sup>27</sup>	18.134 <sup>71</sup>	56.38 <sup>210</sup>
16.0	61.840 <sup>17</sup>	53.62 <sup>188</sup>	30.548 <sup>64</sup>	90.77 <sup>309</sup>	35.986 <sup>10</sup>	46.46 <sup>49</sup>	18.063 <sup>32</sup>	54.28 <sup>238</sup>
26.0	61.823 <sup>35</sup>	51.74 <sup>178</sup>	30.484 <sup>5</sup>	87.68 <sup>331</sup>	35.976 <sup>27</sup>	45.97 <sup>73</sup>	18.031 <sup>11</sup>	51.90 <sup>262</sup>
Okt. 6.0	61.858 <sup>90</sup>	49.96 <sup>158</sup>	30.479 <sup>59</sup>	84.37 <sup>346</sup>	36.003 <sup>67</sup>	45.24 <sup>98</sup>	18.042 <sup>59</sup>	49.28 <sup>283</sup>
16.0	61.948 <sup>148</sup>	48.38 <sup>131</sup>	30.538 <sup>127</sup>	80.91 <sup>353</sup>	36.070 <sup>111</sup>	44.26 <sup>122</sup>	18.101 <sup>110</sup>	46.45 <sup>298</sup>
25.9	62.096 <sup>206</sup>	47.07 <sup>97</sup>	30.665 <sup>198</sup>	77.38 <sup>352</sup>	36.181 <sup>155</sup>	43.04 <sup>147</sup>	18.211 <sup>163</sup>	43.47 <sup>306</sup>
Nov. 4.9	62.302 <sup>260</sup>	46.10 <sup>57</sup>	30.863 <sup>266</sup>	73.86 <sup>344</sup>	36.336 <sup>200</sup>	41.57 <sup>170</sup>	18.374 <sup>216</sup>	40.41 <sup>308</sup>
14.9	62.562 <sup>309</sup>	45.53 <sup>13</sup>	31.129 <sup>332</sup>	70.42 <sup>325</sup>	36.536 <sup>239</sup>	39.87 <sup>189</sup>	18.590 <sup>264</sup>	37.33 <sup>302</sup>
24.9	62.871 <sup>349</sup>	45.40 <sup>34</sup>	31.461 <sup>389</sup>	67.17 <sup>297</sup>	36.775 <sup>274</sup>	37.98 <sup>203</sup>	18.854 <sup>308</sup>	34.31 <sup>287</sup>
Dez. 4.8	63.220 <sup>378</sup>	45.74 <sup>79</sup>	31.850 <sup>437</sup>	64.20 <sup>261</sup>	37.049 <sup>300</sup>	35.95 <sup>213</sup>	19.162 <sup>343</sup>	31.44 <sup>264</sup>
14.8	63.598 <sup>396</sup>	46.53 <sup>124</sup>	32.287 <sup>472</sup>	61.59 <sup>215</sup>	37.349 <sup>318</sup>	33.82 <sup>215</sup>	19.505 <sup>367</sup>	28.80 <sup>232</sup>
24.8	63.994 <sup>400</sup>	47.77 <sup>164</sup>	32.759 <sup>490</sup>	59.44 <sup>163</sup>	37.667 <sup>324</sup>	31.67 <sup>210</sup>	19.872 <sup>379</sup>	26.48 <sup>192</sup>
34.8	64.394	49.41	33.249	57.81	37.991	29.57	20.251	24.56
Mittl. Ort sec $\delta$ , tg $\delta$	59.934 1.300	39.01 -0.831	30.873 1.807	97.70 +1.505	34.378 1.002	54.67 +0.067	17.300 1.282	60.49 +0.803

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	486) 8 Draconis		488) ε Virginis		490) ♀ Virginis		492) 43 Comae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	12 <sup>h</sup> 52 <sup>m</sup>	+65° 51'	12 <sup>h</sup> 58 <sup>m</sup>	+11° 22'	13 <sup>h</sup> 5 <sup>m</sup>	-5° 6'	13 <sup>h</sup> 8 <sup>m</sup>	+28° 16'
Jan. 0.8	17.28 <sub>63</sub>	56.79 <sub>109</sub>	12.306 <sub>329</sub>	70.53 <sub>201</sub>	49.092 <sub>328</sub>	47.44 <sub>204</sub>	8.879 <sub>349</sub>	45.61 <sub>190</sub>
10.7	17.91 <sub>63</sub>	55.70 <sub>44</sub>	12.635 <sub>320</sub>	68.52 <sub>178</sub>	49.420 <sub>321</sub>	49.48 <sub>199</sub>	9.228 <sub>344</sub>	43.71 <sub>148</sub>
20.7	18.54 <sub>59</sub>	55.26 <sub>20</sub>	12.955 <sub>303</sub>	66.74 <sub>148</sub>	49.741 <sub>303</sub>	51.47 <sub>187</sub>	9.572 <sub>328</sub>	42.23 <sub>104</sub>
30.7	19.13 <sub>55</sub>	55.46 <sub>85</sub>	13.258 <sub>275</sub>	65.26 <sub>115</sub>	50.044 <sub>277</sub>	53.34 <sub>170</sub>	9.900 <sub>302</sub>	41.19 <sub>57</sub>
Feb. 9.7	19.68 <sub>48</sub>	56.31 <sub>143</sub>	13.533 <sub>243</sub>	64.11 <sub>80</sub>	50.321 <sub>246</sub>	55.04 <sub>149</sub>	10.202 <sub>269</sub>	40.62 <sub>9</sub>
19.6	20.16 <sub>40</sub>	57.74 <sub>195</sub>	13.776 <sub>207</sub>	63.31 <sub>44</sub>	50.567 <sub>211</sub>	56.53 <sub>124</sub>	10.471 <sub>229</sub>	40.53 <sub>38</sub>
29.6	20.56 <sub>30</sub>	59.69 <sub>239</sub>	13.983 <sub>166</sub>	62.87 <sub>9</sub>	50.778 <sub>173</sub>	57.77 <sub>98</sub>	10.700 <sub>187</sub>	40.91 <sub>80</sub>
März 10.6	20.86 <sub>21</sub>	62.08 <sub>271</sub>	14.149 <sub>128</sub>	62.78 <sub>23</sub>	50.951 <sub>137</sub>	58.75 <sub>73</sub>	10.887 <sub>143</sub>	41.71 <sub>117</sub>
20.5	21.07 <sub>11</sub>	64.79 <sub>293</sub>	14.277 <sub>90</sub>	63.01 <sub>51</sub>	51.088 <sub>100</sub>	59.48 <sub>48</sub>	11.030 <sub>100</sub>	42.88 <sub>147</sub>
30.5	21.18 <sub>1</sub>	67.72 <sub>301</sub>	14.367 <sub>54</sub>	63.52 <sub>74</sub>	51.188 <sub>67</sub>	59.96 <sub>25</sub>	11.130 <sub>59</sub>	44.35 <sub>170</sub>
Apr. 9.5	21.19 <sub>8</sub>	70.73 <sub>299</sub>	14.421 <sub>21</sub>	64.26 <sub>91</sub>	51.255 <sub>36</sub>	60.21 <sub>4</sub>	11.189 <sub>20</sub>	46.05 <sub>184</sub>
19.5	21.11 <sub>16</sub>	73.72 <sub>285</sub>	14.442 <sub>7</sub>	65.17 <sub>103</sub>	51.291 <sub>8</sub>	60.25 <sub>13</sub>	11.209 <sub>14</sub>	47.89 <sub>190</sub>
29.4	20.95 <sub>23</sub>	76.57 <sub>262</sub>	14.435 <sub>32</sub>	66.20 <sub>111</sub>	51.299 <sub>16</sub>	60.12 <sub>28</sub>	11.195 <sub>44</sub>	49.79 <sub>189</sub>
Mai 9.4	20.72 <sub>30</sub>	79.19 <sub>230</sub>	14.403 <sub>54</sub>	67.31 <sub>112</sub>	51.283 <sub>38</sub>	59.84 <sub>40</sub>	11.151 <sub>70</sub>	51.68 <sub>181</sub>
19.4	20.42 <sub>35</sub>	81.49 <sub>190</sub>	14.349 <sub>72</sub>	68.43 <sub>110</sub>	51.245 <sub>58</sub>	59.44 <sub>49</sub>	11.081 <sub>93</sub>	53.49 <sub>167</sub>
29.4	20.07 <sub>38</sub>	83.39 <sub>146</sub>	14.277 <sub>88</sub>	69.53 <sub>104</sub>	51.187 <sub>74</sub>	58.95 <sub>57</sub>	10.988 <sub>110</sub>	55.16 <sub>148</sub>
Juni 8.3	19.69 <sub>42</sub>	84.85 <sub>97</sub>	14.189 <sub>100</sub>	70.57 <sub>95</sub>	51.113 <sub>88</sub>	58.38 <sub>63</sub>	10.878 <sub>126</sub>	56.64 <sub>124</sub>
18.3	19.27 <sub>42</sub>	85.82 <sub>47</sub>	14.089 <sub>109</sub>	71.52 <sub>83</sub>	51.025 <sub>100</sub>	57.75 <sub>65</sub>	10.752 <sub>138</sub>	57.88 <sub>98</sub>
28.3	18.85 <sub>43</sub>	86.29 <sub>6</sub>	13.980 <sub>117</sub>	72.35 <sub>69</sub>	50.925 <sub>109</sub>	57.10 <sub>68</sub>	10.614 <sub>145</sub>	58.86 <sub>69</sub>
Juli 8.2	18.42 <sub>43</sub>	86.23 <sub>58</sub>	13.863 <sub>119</sub>	73.04 <sub>54</sub>	50.816 <sub>115</sub>	56.42 <sub>68</sub>	10.469 <sub>150</sub>	59.55 <sub>38</sub>
18.2	17.99 <sub>40</sub>	85.65 <sub>108</sub>	13.744 <sub>120</sub>	73.58 <sub>37</sub>	50.701 <sub>117</sub>	55.74 <sub>66</sub>	10.319 <sub>149</sub>	59.93 <sub>7</sub>
28.2	17.59 <sub>39</sub>	84.57 <sub>157</sub>	13.624 <sub>116</sub>	73.95 <sub>18</sub>	50.584 <sub>116</sub>	55.08 <sub>63</sub>	10.170 <sub>145</sub>	60.00 <sub>26</sub>
Aug. 7.2	17.20 <sub>34</sub>	83.00 <sub>201</sub>	13.508 <sub>107</sub>	74.13 <sub>1</sub>	50.468 <sub>108</sub>	54.45 <sub>57</sub>	10.025 <sub>136</sub>	59.74 <sub>58</sub>
17.1	16.86 <sub>30</sub>	80.99 <sub>243</sub>	13.401 <sub>94</sub>	74.12 <sub>22</sub>	50.360 <sub>96</sub>	53.88 <sub>48</sub>	9.889 <sub>121</sub>	59.16 <sub>90</sub>
27.1	16.56 <sub>25</sub>	78.56 <sub>280</sub>	13.307 <sub>74</sub>	73.90 <sub>45</sub>	50.264 <sub>77</sub>	53.40 <sub>36</sub>	9.768 <sub>100</sub>	58.26 <sub>121</sub>
Sept. 6.1	16.31 <sub>18</sub>	75.76 <sub>310</sub>	13.233 <sub>50</sub>	73.45 <sub>68</sub>	50.187 <sub>53</sub>	53.04 <sub>22</sub>	9.668 <sub>74</sub>	57.05 <sub>151</sub>
16.1	16.13 <sub>11</sub>	72.66 <sub>337</sub>	13.183 <sub>18</sub>	72.77 <sub>92</sub>	50.134 <sub>22</sub>	52.82 <sub>3</sub>	9.594 <sub>41</sub>	55.54 <sub>180</sub>
26.0	16.02 <sub>3</sub>	69.29 <sub>355</sub>	13.165 <sub>18</sub>	71.85 <sub>117</sub>	50.112 <sub>15</sub>	52.79 <sub>17</sub>	9.553 <sub>2</sub>	53.74 <sub>207</sub>
Okt. 6.0	15.99 <sub>5</sub>	65.74 <sub>368</sub>	13.183 <sub>59</sub>	70.68 <sub>141</sub>	50.127 <sub>56</sub>	52.96 <sub>41</sub>	9.551 <sub>41</sub>	51.67 <sub>230</sub>
16.0	16.04 <sub>14</sub>	62.06 <sub>370</sub>	13.242 <sub>103</sub>	69.27 <sub>165</sub>	50.183 <sub>101</sub>	53.37 <sub>68</sub>	9.592 <sub>88</sub>	49.37 <sub>250</sub>
25.9	16.18 <sub>23</sub>	58.36 <sub>366</sub>	13.345 <sub>148</sub>	67.62 <sub>187</sub>	50.284 <sub>147</sub>	54.05 <sub>94</sub>	9.680 <sub>137</sub>	46.87 <sub>266</sub>
Nov. 4.9	16.41 <sub>33</sub>	54.70 <sub>353</sub>	13.493 <sub>192</sub>	65.75 <sub>205</sub>	50.431 <sub>192</sub>	54.99 <sub>121</sub>	9.817 <sub>187</sub>	44.21 <sub>276</sub>
14.9	16.74 <sub>41</sub>	51.17 <sub>328</sub>	13.685 <sub>234</sub>	63.70 <sub>220</sub>	50.623 <sub>233</sub>	56.20 <sub>146</sub>	10.004 <sub>232</sub>	41.45 <sub>278</sub>
24.9	17.15 <sub>48</sub>	47.89 <sub>296</sub>	13.919 <sub>271</sub>	61.50 <sub>228</sub>	50.856 <sub>270</sub>	57.66 <sub>169</sub>	10.236 <sub>274</sub>	38.67 <sub>274</sub>
Dez. 4.8	17.63 <sub>55</sub>	44.93 <sub>254</sub>	14.190 <sub>298</sub>	59.22 <sub>230</sub>	51.126 <sub>298</sub>	59.35 <sub>186</sub>	10.510 <sub>307</sub>	35.93 <sub>261</sub>
14.8	18.18 <sub>59</sub>	42.39 <sub>203</sub>	14.488 <sub>318</sub>	56.92 <sub>224</sub>	51.424 <sub>317</sub>	61.21 <sub>198</sub>	10.817 <sub>332</sub>	33.32 <sub>239</sub>
24.8	18.77 <sub>63</sub>	40.36 <sub>146</sub>	14.806 <sub>327</sub>	54.68 <sub>212</sub>	51.741 <sub>327</sub>	63.19 <sub>204</sub>	11.149 <sub>345</sub>	30.93 <sub>210</sub>
34.8	19.40	38.90	15.133	52.56	52.068	65.23	11.494	28.83
Mittl. Ort	17.74	80.06	11.675	79.81	48.360	44.20	8.501	59.99
sec δ, tg δ	2.446	+2.233	1.020	+0.201	1.004	-0.089	1.136	+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.
1920	$13^h 14^m$	$-22^\circ 44'$	$13^h 16^m$	$-36^\circ 17'$	$13^h 20^m$	$+55^\circ 19'$	$13^h 20^m$	$-10^\circ 44'$
Jan. 0.8	34.960 <sub>351</sub>	56.62 <sub>188</sub>	6.534 <sub>389</sub>	19.23 <sub>166</sub>	42.108 <sub>475</sub>	73.68 <sub>165</sub>	59.247 <sub>333</sub>	39.82 <sub>197</sub>
10.7	35.311 <sub>343</sub>	58.50 <sub>202</sub>	6.923 <sub>380</sub>	20.89 <sub>195</sub>	42.583 <sub>478</sub>	72.03 <sub>105</sub>	59.580 <sub>327</sub>	41.79 <sub>199</sub>
20.7	35.654 <sub>325</sub>	60.52 <sub>210</sub>	7.303 <sub>360</sub>	22.84 <sub>218</sub>	43.061 <sub>464</sub>	70.98 <sub>43</sub>	59.907 <sub>311</sub>	43.78 <sub>192</sub>
30.7	35.979 <sub>299</sub>	62.62 <sub>211</sub>	7.663 <sub>332</sub>	25.02 <sub>232</sub>	43.525 <sub>434</sub>	70.55 <sub>21</sub>	60.218 <sub>288</sub>	45.70 <sub>182</sub>
Feb. 9.7	36.278 <sub>267</sub>	64.73 <sub>207</sub>	7.995 <sub>297</sub>	27.34 <sub>242</sub>	43.959 <sub>391</sub>	70.76 <sub>81</sub>	60.506 <sub>259</sub>	47.52 <sub>167</sub>
19.6	36.545 <sub>232</sub>	66.80 <sub>197</sub>	8.292 <sub>258</sub>	29.76 <sub>244</sub>	44.350 <sub>338</sub>	71.57 <sub>138</sub>	60.765 <sub>226</sub>	49.19 <sub>146</sub>
29.6	36.777 <sub>194</sub>	68.77 <sub>184</sub>	8.550 <sub>216</sub>	32.20 <sub>240</sub>	44.688 <sub>277</sub>	72.95 <sub>187</sub>	60.991 <sub>189</sub>	50.65 <sub>125</sub>
März 10.6	36.971 <sub>155</sub>	70.61 <sub>168</sub>	8.766 <sub>174</sub>	34.60 <sub>233</sub>	44.965 <sub>211</sub>	74.82 <sub>228</sub>	61.180 <sub>154</sub>	51.90 <sub>102</sub>
20.6	37.126 <sub>119</sub>	72.29 <sub>149</sub>	8.940 <sub>132</sub>	36.93 <sub>220</sub>	45.176 <sub>142</sub>	77.10 <sub>258</sub>	61.334 <sub>117</sub>	52.92 <sub>79</sub>
30.5	37.245 <sub>83</sub>	73.78 <sub>130</sub>	9.072 <sub>93</sub>	39.13 <sub>205</sub>	45.318 <sub>74</sub>	79.68 <sub>277</sub>	61.451 <sub>85</sub>	53.71 <sub>57</sub>
Apr. 9.5	37.328 <sub>51</sub>	75.08 <sub>109</sub>	9.165 <sub>56</sub>	41.18 <sub>187</sub>	45.392 <sub>10</sub>	82.45 <sub>285</sub>	61.536 <sub>53</sub>	54.28 <sub>37</sub>
19.5	37.379 <sub>21</sub>	76.17 <sub>90</sub>	9.221 <sub>21</sub>	43.05 <sub>166</sub>	45.402 <sub>50</sub>	85.30 <sub>283</sub>	61.589 <sub>25</sub>	54.65 <sub>18</sub>
29.4	37.400 <sub>7</sub>	77.07 <sub>69</sub>	9.242 <sub>11</sub>	44.71 <sub>142</sub>	45.352 <sub>105</sub>	88.13 <sub>270</sub>	61.614 <sub>1</sub>	54.83 <sub>2</sub>
Mai 9.4	37.393 <sub>32</sub>	77.76 <sub>48</sub>	9.231 <sub>41</sub>	46.13 <sub>119</sub>	45.247 <sub>153</sub>	90.83 <sub>248</sub>	61.613 <sub>25</sub>	54.85 <sub>13</sub>
19.4	37.361 <sub>54</sub>	78.24 <sub>29</sub>	9.190 <sub>69</sub>	47.32 <sub>92</sub>	45.094 <sub>193</sub>	93.31 <sub>218</sub>	61.588 <sub>46</sub>	54.72 <sub>26</sub>
29.4	37.307 <sub>75</sub>	78.53 <sub>9</sub>	9.121 <sub>93</sub>	48.24 <sub>63</sub>	44.901 <sub>227</sub>	95.49 <sub>182</sub>	61.542 <sub>66</sub>	54.46 <sub>36</sub>
Juni 8.3	37.232 <sub>93</sub>	78.62 <sub>11</sub>	9.028 <sub>115</sub>	48.87 <sub>35</sub>	44.674 <sub>253</sub>	97.31 <sub>141</sub>	61.476 <sub>82</sub>	54.10 <sub>47</sub>
18.3	37.139 <sub>108</sub>	78.51 <sub>29</sub>	8.913 <sub>134</sub>	49.22 <sub>6</sub>	44.421 <sub>272</sub>	98.72 <sub>96</sub>	61.394 <sub>97</sub>	53.63 <sub>55</sub>
28.3	37.031 <sub>120</sub>	78.22 <sub>47</sub>	8.779 <sub>149</sub>	49.28 <sub>24</sub>	44.149 <sub>285</sub>	99.68 <sub>48</sub>	61.297 <sub>105</sub>	53.08 <sub>61</sub>
Juli 8.3	36.911 <sub>129</sub>	77.75 <sub>65</sub>	8.630 <sub>160</sub>	49.04 <sub>54</sub>	43.864 <sub>289</sub>	100.16 <sub>1</sub>	61.188 <sub>118</sub>	52.47 <sub>66</sub>
18.2	36.782 <sub>134</sub>	77.10 <sub>80</sub>	8.470 <sub>165</sub>	48.50 <sub>81</sub>	43.575 <sub>288</sub>	100.17 <sub>48</sub>	61.070 <sub>122</sub>	51.81 <sub>71</sub>
28.2	36.648 <sub>133</sub>	76.30 <sub>93</sub>	8.305 <sub>164</sub>	47.69 <sub>107</sub>	43.287 <sub>278</sub>	99.69 <sub>95</sub>	60.948 <sub>124</sub>	51.10 <sub>71</sub>
Aug. 7.2	36.515 <sub>127</sub>	75.37 <sub>103</sub>	8.141 <sub>157</sub>	46.62 <sub>129</sub>	43.009 <sub>261</sub>	98.74 <sub>142</sub>	60.824 <sub>118</sub>	50.39 <sub>71</sub>
17.1	36.388 <sub>114</sub>	74.34 <sub>110</sub>	7.984 <sub>141</sub>	45.33 <sub>147</sub>	42.748 <sub>238</sub>	97.32 <sub>184</sub>	60.706 <sub>108</sub>	49.68 <sub>68</sub>
27.1	36.274 <sub>94</sub>	73.24 <sub>113</sub>	7.843 <sub>118</sub>	43.86 <sub>161</sub>	42.510 <sub>204</sub>	95.48 <sub>225</sub>	60.598 <sub>91</sub>	49.00 <sub>60</sub>
Sept. 6.1	36.180 <sub>67</sub>	72.11 <sub>108</sub>	7.725 <sub>85</sub>	42.25 <sub>167</sub>	42.306 <sub>164</sub>	93.23 <sub>261</sub>	60.507 <sub>67</sub>	48.40 <sub>50</sub>
16.1	36.113 <sub>34</sub>	71.03 <sub>101</sub>	7.640 <sub>45</sub>	40.58 <sub>166</sub>	42.142 <sub>116</sub>	90.62 <sub>292</sub>	60.440 <sub>36</sub>	47.90 <sub>35</sub>
26.0	36.079 <sub>8</sub>	70.02 <sub>87</sub>	7.595 <sub>1</sub>	38.92 <sub>159</sub>	42.026 <sub>61</sub>	87.70 <sub>319</sub>	60.404 <sub>1</sub>	47.55 <sub>17</sub>
Okt. 6.0	36.087 <sub>53</sub>	69.15 <sub>67</sub>	7.596 <sub>55</sub>	37.33 <sub>144</sub>	41.965 <sub>2</sub>	84.51 <sub>340</sub>	60.405 <sub>42</sub>	47.38 <sub>5</sub>
16.0	36.140 <sub>101</sub>	68.48 <sub>41</sub>	7.651 <sub>110</sub>	35.89 <sub>120</sub>	41.967 <sub>70</sub>	81.11 <sub>352</sub>	60.447 <sub>88</sub>	47.43 <sub>30</sub>
26.0	36.241 <sub>152</sub>	68.07 <sub>12</sub>	7.761 <sub>168</sub>	34.69 <sub>91</sub>	42.037 <sub>139</sub>	77.59 <sub>358</sub>	60.535 <sub>136</sub>	47.73 <sub>58</sub>
Nov. 4.9	36.393 <sub>202</sub>	67.95 <sub>20</sub>	7.929 <sub>223</sub>	33.78 <sub>55</sub>	42.176 <sub>211</sub>	74.01 <sub>355</sub>	60.671 <sub>183</sub>	48.31 <sub>86</sub>
14.9	36.595 <sub>247</sub>	68.15 <sub>55</sub>	8.152 <sub>274</sub>	33.23 <sub>16</sub>	42.387 <sub>278</sub>	70.46 <sub>343</sub>	60.854 <sub>226</sub>	49.17 <sub>114</sub>
24.9	36.842 <sub>286</sub>	68.70 <sub>89</sub>	8.426 <sub>318</sub>	33.07 <sub>26</sub>	42.665 <sub>342</sub>	67.03 <sub>320</sub>	61.080 <sub>265</sub>	50.31 <sub>140</sub>
Dez. 4.8	37.128 <sub>316</sub>	69.59 <sub>121</sub>	8.744 <sub>351</sub>	33.33 <sub>68</sub>	43.007 <sub>395</sub>	63.83 <sub>289</sub>	61.345 <sub>296</sub>	51.71 <sub>162</sub>
14.8	37.444 <sub>338</sub>	70.80 <sub>151</sub>	9.095 <sub>375</sub>	34.01 <sub>108</sub>	43.402 <sub>438</sub>	60.94 <sub>247</sub>	61.641 <sub>317</sub>	53.33 <sub>181</sub>
24.8	37.782 <sub>347</sub>	72.31 <sub>174</sub>	9.470 <sub>385</sub>	35.09 <sub>145</sub>	43.840 <sub>466</sub>	58.47 <sub>198</sub>	61.958 <sub>328</sub>	55.14 <sub>192</sub>
34.8	38.129	74.05	9.855	36.54	44.306	56.49	62.286	57.06
Mittl. Ort	34.130	59.75	5.591	26.68	42.455	94.11	58.555	39.04
sec $\delta$ , tg $\delta$	1.084	-0.419	1.241	-0.734	1.759	+1.447	1.018	-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.
1920	13 <sup>h</sup> 24 <sup>m</sup>	+72° 47'	13 <sup>h</sup> 25 <sup>m</sup>	+60° 20'	13 <sup>h</sup> 30 <sup>m</sup>	-0° 11'	13 <sup>h</sup> 31 <sup>m</sup>	+37° 34'
Jan. 0.8	3.77 <sub>81</sub>	61.38 <sub>134</sub>	30.44 <sub>52</sub>	70.19 <sub>161</sub>	37.464 <sub>325</sub>	18.74 <sub>203</sub>	13.622 <sub>372</sub>	74.60 <sub>199</sub>
10.8	4.58 <sub>83</sub>	60.04 <sub>69</sub>	30.96 <sub>53</sub>	68.58 <sub>99</sub>	37.789 <sub>322</sub>	20.77 <sub>193</sub>	13.994 <sub>372</sub>	72.61 <sub>151</sub>
20.7	5.41 <sub>80</sub>	59.35 <sub>1</sub>	31.49 <sub>53</sub>	67.59 <sub>35</sub>	38.111 <sub>308</sub>	22.70 <sub>176</sub>	14.366 <sub>361</sub>	71.10 <sub>99</sub>
30.7	6.21 <sub>77</sub>	59.34 <sub>65</sub>	32.02 <sub>49</sub>	67.24 <sub>30</sub>	38.419 <sub>288</sub>	24.46 <sub>154</sub>	14.727 <sub>340</sub>	70.11 <sub>44</sub>
Feb. 9.7	6.98 <sub>69</sub>	59.99 <sub>128</sub>	32.51 <sub>44</sub>	67.54 <sub>93</sub>	38.707 <sub>260</sub>	26.00 <sub>128</sub>	15.067 <sub>308</sub>	69.67 <sub>10</sub>
19.6	7.67 <sub>60</sub>	61.27 <sub>185</sub>	32.95 <sub>38</sub>	68.47 <sub>150</sub>	38.967 <sub>229</sub>	27.28 <sub>100</sub>	15.375 <sub>269</sub>	69.77 <sub>63</sub>
29.6	8.27 <sub>49</sub>	63.12 <sub>233</sub>	33.33 <sub>32</sub>	69.97 <sub>200</sub>	39.196 <sub>193</sub>	28.28 <sub>71</sub>	15.644 <sub>226</sub>	70.40 <sub>112</sub>
März 10.6	8.76 <sub>36</sub>	65.45 <sub>272</sub>	33.65 <sub>24</sub>	71.97 <sub>241</sub>	39.389 <sub>158</sub>	28.99 <sub>42</sub>	15.870 <sub>180</sub>	71.52 <sub>153</sub>
20.6	9.12 <sub>23</sub>	68.17 <sub>299</sub>	33.89 <sub>16</sub>	74.38 <sub>272</sub>	39.547 <sub>124</sub>	29.41 <sub>16</sub>	16.050 <sub>132</sub>	73.05 <sub>186</sub>
30.5	9.35 <sub>9</sub>	71.16 <sub>313</sub>	34.05 <sub>9</sub>	77.10 <sub>291</sub>	39.671 <sub>90</sub>	29.57 <sub>9</sub>	16.182 <sub>86</sub>	74.91 <sub>212</sub>
Apr. 9.5	9.44 <sub>4</sub>	74.29 <sub>316</sub>	34.14 <sub>0</sub>	80.01 <sub>298</sub>	39.761 <sub>58</sub>	29.48 <sub>28</sub>	16.268 <sub>42</sub>	77.03 <sub>227</sub>
19.5	9.40 <sub>16</sub>	77.45 <sub>307</sub>	34.14 <sub>6</sub>	82.99 <sub>294</sub>	39.819 <sub>30</sub>	29.20 <sub>45</sub>	16.310 <sub>2</sub>	79.30 <sub>234</sub>
29.5	9.24 <sub>27</sub>	80.52 <sub>287</sub>	34.08 <sub>13</sub>	85.93 <sub>281</sub>	39.849 <sub>3</sub>	28.75 <sub>59</sub>	16.312 <sub>36</sub>	81.64 <sub>231</sub>
Mai 9.4	8.97 <sub>38</sub>	83.39 <sub>257</sub>	33.95 <sub>18</sub>	88.74 <sub>256</sub>	39.852 <sub>20</sub>	28.16 <sub>67</sub>	16.276 <sub>68</sub>	83.95 <sub>220</sub>
19.4	8.59 <sub>46</sub>	85.96 <sub>220</sub>	33.77 <sub>24</sub>	91.30 <sub>225</sub>	39.832 <sub>42</sub>	27.49 <sub>74</sub>	16.208 <sub>98</sub>	86.15 <sub>202</sub>
29.4	8.13 <sub>53</sub>	88.16 <sub>177</sub>	33.53 <sub>27</sub>	93.55 <sub>187</sub>	39.790 <sub>62</sub>	26.75 <sub>77</sub>	16.110 <sub>122</sub>	88.17 <sub>177</sub>
Juni 8.3	7.60 <sub>59</sub>	89.93 <sub>128</sub>	33.26 <sub>30</sub>	95.42 <sub>144</sub>	39.728 <sub>79</sub>	25.98 <sub>78</sub>	15.988 <sub>143</sub>	89.94 <sub>148</sub>
18.3	7.01 <sub>62</sub>	91.21 <sub>77</sub>	32.96 <sub>33</sub>	96.86 <sub>97</sub>	39.649 <sub>95</sub>	25.20 <sub>76</sub>	15.845 <sub>160</sub>	91.42 <sub>116</sub>
28.3	6.39 <sub>65</sub>	91.98 <sub>23</sub>	32.63 <sub>35</sub>	97.83 <sub>47</sub>	39.554 <sub>107</sub>	24.44 <sub>72</sub>	15.685 <sub>172</sub>	92.58 <sub>79</sub>
Juli 8.3	5.74 <sub>65</sub>	92.21 <sub>31</sub>	32.28 <sub>35</sub>	98.30 <sub>3</sub>	39.447 <sub>116</sub>	23.72 <sub>67</sub>	15.513 <sub>180</sub>	93.37 <sub>41</sub>
18.2	5.09 <sub>64</sub>	91.90 <sub>85</sub>	31.93 <sub>35</sub>	98.27 <sub>54</sub>	39.331 <sub>123</sub>	23.05 <sub>61</sub>	15.333 <sub>184</sub>	93.78 <sub>2</sub>
28.2	4.45 <sub>62</sub>	91.05 <sub>135</sub>	31.58 <sub>33</sub>	97.73 <sub>103</sub>	39.208 <sub>124</sub>	22.44 <sub>51</sub>	15.149 <sub>182</sub>	93.80 <sub>37</sub>
Aug. 7.2	3.83 <sub>58</sub>	89.70 <sub>185</sub>	31.25 <sub>32</sub>	96.70 <sub>151</sub>	39.084 <sub>121</sub>	21.93 <sub>41</sub>	14.967 <sub>174</sub>	93.43 <sub>76</sub>
17.2	3.25 <sub>52</sub>	87.85 <sub>229</sub>	30.93 <sub>29</sub>	95.19 <sub>195</sub>	38.963 <sub>112</sub>	21.52 <sub>29</sub>	14.793 <sub>161</sub>	92.67 <sub>115</sub>
27.1	2.73 <sub>46</sub>	85.56 <sub>269</sub>	30.64 <sub>26</sub>	93.24 <sub>236</sub>	38.851 <sub>96</sub>	21.23 <sub>13</sub>	14.632 <sub>141</sub>	91.52 <sub>151</sub>
Sept. 6.1	2.27 <sub>38</sub>	82.87 <sub>306</sub>	30.38 <sub>20</sub>	90.88 <sub>273</sub>	38.755 <sub>75</sub>	21.10 <sub>3</sub>	14.491 <sub>113</sub>	90.01 <sub>186</sub>
16.1	1.89 <sub>29</sub>	79.81 <sub>334</sub>	30.18 <sub>15</sub>	88.15 <sub>305</sub>	38.680 <sub>46</sub>	21.13 <sub>23</sub>	14.378 <sub>80</sub>	88.15 <sub>218</sub>
26.0	1.60 <sub>18</sub>	76.47 <sub>358</sub>	30.03 <sub>9</sub>	85.10 <sub>332</sub>	38.634 <sub>11</sub>	21.36 <sub>45</sub>	14.298 <sub>39</sub>	85.97 <sub>248</sub>
Okt. 6.0	1.42 <sub>6</sub>	72.89 <sub>373</sub>	29.94 <sub>2</sub>	81.78 <sub>351</sub>	38.623 <sub>29</sub>	21.81 <sub>68</sub>	14.259 <sub>8</sub>	83.49 <sub>272</sub>
16.0	1.36 <sub>5</sub>	69.16 <sub>380</sub>	29.92 <sub>5</sub>	78.27 <sub>363</sub>	38.652 <sub>73</sub>	22.49 <sub>93</sub>	14.267 <sub>59</sub>	80.77 <sub>293</sub>
26.0	1.41 <sub>18</sub>	65.36 <sub>380</sub>	29.97 <sub>14</sub>	74.64 <sub>368</sub>	38.725 <sub>120</sub>	23.42 <sub>119</sub>	14.326 <sub>113</sub>	77.84 <sub>307</sub>
Nov. 4.9	1.59 <sub>31</sub>	61.56 <sub>368</sub>	30.11 <sub>22</sub>	70.96 <sub>363</sub>	38.845 <sub>167</sub>	24.61 <sub>142</sub>	14.439 <sub>167</sub>	74.77 <sub>315</sub>
14.9	1.90 <sub>43</sub>	57.88 <sub>348</sub>	30.33 <sub>29</sub>	67.33 <sub>349</sub>	39.012 <sub>211</sub>	26.03 <sub>165</sub>	14.606 <sub>221</sub>	71.62 <sub>314</sub>
24.9	2.33 <sub>54</sub>	54.40 <sub>318</sub>	30.62 <sub>37</sub>	63.84 <sub>325</sub>	39.223 <sub>250</sub>	27.68 <sub>183</sub>	14.827 <sub>269</sub>	68.48 <sub>305</sub>
Dez. 4.9	2.87 <sub>65</sub>	51.22 <sub>278</sub>	30.99 <sub>43</sub>	60.59 <sub>291</sub>	39.473 <sub>282</sub>	29.51 <sub>197</sub>	15.096 <sub>310</sub>	65.43 <sub>288</sub>
14.8	3.52 <sub>73</sub>	48.44 <sub>228</sub>	31.42 <sub>48</sub>	57.68 <sub>247</sub>	39.755 <sub>306</sub>	31.48 <sub>204</sub>	15.406 <sub>342</sub>	62.55 <sub>260</sub>
24.8	4.25 <sub>79</sub>	46.16 <sub>172</sub>	31.90 <sub>51</sub>	55.21 <sub>195</sub>	40.061 <sub>319</sub>	33.52 <sub>206</sub>	15.748 <sub>364</sub>	59.95 <sub>224</sub>
34.8	5.04	44.44	32.41	53.26	40.380	35.58	16.112	57.71
Mittl. Ort sec δ, tg δ	5.55 3.383	83.93 +3.232	31.08 2.022	91.22 +1.757	36.919 1.000	14.59 -0.003	13.571 1.262	90.60 +0.770

Mittlere Zeit Greenw.	504) ε Centauri		507) τ Bootis		509) η Ursae maj.		510) 89 Virginis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	13 <sup>h</sup> 34 <sup>m</sup>	-53° 3'	13 <sup>h</sup> 43 <sup>m</sup>	+17° 50'	13 <sup>h</sup> 44 <sup>m</sup>	+49° 42'	13 <sup>h</sup> 45 <sup>m</sup>	-17° 44'
Jan. 0.8	49.460 <sup>493</sup>	24.66 <sup>111</sup>	27.907 <sup>327</sup>	68.04 <sup>212</sup>	23.050 <sup>422</sup>	25.40 <sup>198</sup>	31.898 <sup>340</sup>	7.86 <sup>176</sup>
10.8	49.953 <sup>487</sup>	25.77 <sup>155</sup>	28.234 <sup>329</sup>	65.92 <sup>183</sup>	23.472 <sup>429</sup>	23.42 <sup>142</sup>	32.238 <sup>338</sup>	9.62 <sup>186</sup>
20.7	50.440 <sup>469</sup>	27.32 <sup>193</sup>	28.563 <sup>319</sup>	64.09 <sup>149</sup>	23.901 <sup>422</sup>	22.00 <sup>83</sup>	32.576 <sup>327</sup>	11.48 <sup>189</sup>
30.7	50.909 <sup>438</sup>	29.25 <sup>225</sup>	28.882 <sup>301</sup>	62.60 <sup>109</sup>	24.323 <sup>402</sup>	21.17 <sup>21</sup>	32.903 <sup>307</sup>	13.37 <sup>187</sup>
Feb. 9.7	51.347 <sup>398</sup>	31.50 <sup>250</sup>	29.183 <sup>275</sup>	61.51 <sup>67</sup>	24.725 <sup>370</sup>	20.96 <sup>41</sup>	33.210 <sup>280</sup>	15.24 <sup>179</sup>
19.7	51.745 <sup>353</sup>	34.00 <sup>270</sup>	29.458 <sup>243</sup>	60.84 <sup>25</sup>	25.095 <sup>327</sup>	21.37 <sup>99</sup>	33.490 <sup>250</sup>	17.03 <sup>166</sup>
29.6	52.098 <sup>303</sup>	36.70 <sup>280</sup>	29.701 <sup>209</sup>	60.59 <sup>17</sup>	25.422 <sup>277</sup>	22.36 <sup>151</sup>	33.740 <sup>217</sup>	18.69 <sup>150</sup>
März 10.6	52.401 <sup>251</sup>	39.50 <sup>286</sup>	29.910 <sup>172</sup>	60.76 <sup>54</sup>	25.699 <sup>222</sup>	23.87 <sup>196</sup>	33.957 <sup>182</sup>	20.19 <sup>133</sup>
20.6	52.652 <sup>198</sup>	42.36 <sup>286</sup>	30.082 <sup>134</sup>	61.30 <sup>86</sup>	25.921 <sup>165</sup>	25.83 <sup>232</sup>	34.139 <sup>147</sup>	21.52 <sup>113</sup>
30.5	52.850 <sup>146</sup>	45.22 <sup>279</sup>	30.216 <sup>98</sup>	62.16 <sup>114</sup>	26.086 <sup>108</sup>	28.15 <sup>258</sup>	34.286 <sup>114</sup>	22.65 <sup>94</sup>
Apr. 9.5	52.996 <sup>96</sup>	48.01 <sup>267</sup>	30.314 <sup>64</sup>	63.30 <sup>134</sup>	26.194 <sup>51</sup>	30.73 <sup>273</sup>	34.400 <sup>82</sup>	23.59 <sup>75</sup>
19.5	53.092 <sup>47</sup>	50.68 <sup>251</sup>	30.378 <sup>32</sup>	64.64 <sup>148</sup>	26.245 <sup>2</sup>	33.46 <sup>277</sup>	34.482 <sup>52</sup>	24.34 <sup>57</sup>
29.5	53.139 <sup>0</sup>	53.19 <sup>229</sup>	30.410 <sup>2</sup>	66.12 <sup>155</sup>	26.423 <sup>51</sup>	36.23 <sup>272</sup>	34.534 <sup>23</sup>	24.91 <sup>40</sup>
Mai 9.4	53.139 <sup>45</sup>	55.48 <sup>205</sup>	30.412 <sup>25</sup>	67.67 <sup>156</sup>	26.192 <sup>95</sup>	38.95 <sup>257</sup>	34.557 <sup>2</sup>	25.31 <sup>24</sup>
19.4	53.094 <sup>87</sup>	57.53 <sup>175</sup>	30.387 <sup>49</sup>	69.23 <sup>151</sup>	26.097 <sup>134</sup>	41.52 <sup>232</sup>	34.555 <sup>28</sup>	25.55 <sup>8</sup>
29.4	53.007 <sup>127</sup>	59.28 <sup>143</sup>	30.338 <sup>71</sup>	70.74 <sup>141</sup>	25.963 <sup>168</sup>	43.84 <sup>203</sup>	34.527 <sup>50</sup>	25.63 <sup>6</sup>
Juni 8.4	52.880 <sup>162</sup>	60.71 <sup>107</sup>	30.267 <sup>90</sup>	72.15 <sup>127</sup>	25.795 <sup>197</sup>	45.87 <sup>167</sup>	34.477 <sup>72</sup>	25.57 <sup>20</sup>
18.3	52.718 <sup>194</sup>	61.78 <sup>69</sup>	30.177 <sup>107</sup>	73.42 <sup>110</sup>	25.598 <sup>219</sup>	47.54 <sup>127</sup>	34.405 <sup>91</sup>	25.37 <sup>33</sup>
28.3	52.524 <sup>220</sup>	62.47 <sup>28</sup>	30.070 <sup>121</sup>	74.52 <sup>90</sup>	25.379 <sup>236</sup>	48.81 <sup>83</sup>	34.314 <sup>109</sup>	25.04 <sup>45</sup>
Juli 8.3	52.304 <sup>238</sup>	62.75 <sup>13</sup>	29.949 <sup>132</sup>	75.42 <sup>68</sup>	25.143 <sup>247</sup>	49.64 <sup>38</sup>	34.205 <sup>121</sup>	24.59 <sup>56</sup>
18.2	52.066 <sup>250</sup>	62.62 <sup>53</sup>	29.817 <sup>139</sup>	76.10 <sup>43</sup>	24.896 <sup>253</sup>	50.02 <sup>8</sup>	34.084 <sup>131</sup>	24.03 <sup>66</sup>
28.2	51.816 <sup>252</sup>	62.09 <sup>94</sup>	29.678 <sup>141</sup>	76.53 <sup>18</sup>	24.643 <sup>251</sup>	49.94 <sup>55</sup>	33.953 <sup>136</sup>	23.37 <sup>74</sup>
Aug. 7.2	51.564 <sup>244</sup>	61.15 <sup>130</sup>	29.537 <sup>139</sup>	76.71 <sup>8</sup>	24.392 <sup>243</sup>	49.39 <sup>101</sup>	33.817 <sup>135</sup>	22.63 <sup>80</sup>
17.2	51.320 <sup>226</sup>	59.85 <sup>164</sup>	29.398 <sup>131</sup>	76.63 <sup>35</sup>	24.149 <sup>226</sup>	48.38 <sup>144</sup>	33.682 <sup>128</sup>	21.83 <sup>84</sup>
27.1	51.094 <sup>195</sup>	58.21 <sup>192</sup>	29.267 <sup>117</sup>	76.28 <sup>62</sup>	23.923 <sup>203</sup>	46.94 <sup>187</sup>	33.554 <sup>113</sup>	20.99 <sup>83</sup>
Sept. 6.1	50.899 <sup>153</sup>	56.29 <sup>212</sup>	29.150 <sup>95</sup>	75.66 <sup>90</sup>	23.720 <sup>172</sup>	45.07 <sup>225</sup>	33.441 <sup>90</sup>	20.16 <sup>79</sup>
16.1	50.746 <sup>101</sup>	54.17 <sup>226</sup>	29.055 <sup>68</sup>	74.76 <sup>118</sup>	23.548 <sup>131</sup>	42.82 <sup>259</sup>	33.351 <sup>61</sup>	19.37 <sup>70</sup>
26.1	50.645 <sup>38</sup>	51.91 <sup>231</sup>	28.987 <sup>33</sup>	73.58 <sup>146</sup>	23.417 <sup>85</sup>	40.23 <sup>290</sup>	33.290 <sup>24</sup>	18.67 <sup>57</sup>
Okt. 6.0	50.607 <sup>32</sup>	49.60 <sup>225</sup>	28.954 <sup>8</sup>	72.12 <sup>171</sup>	23.332 <sup>29</sup>	37.33 <sup>316</sup>	33.266 <sup>19</sup>	18.10 <sup>40</sup>
16.0	50.639 <sup>107</sup>	47.35 <sup>210</sup>	28.962 <sup>52</sup>	70.41 <sup>196</sup>	23.303 <sup>30</sup>	34.17 <sup>335</sup>	33.285 <sup>66</sup>	17.70 <sup>16</sup>
26.0	50.746 <sup>183</sup>	45.25 <sup>186</sup>	29.014 <sup>100</sup>	68.45 <sup>217</sup>	23.333 <sup>94</sup>	30.82 <sup>346</sup>	33.351 <sup>116</sup>	17.54 <sup>9</sup>
Nov. 4.9	50.929 <sup>257</sup>	43.39 <sup>153</sup>	29.114 <sup>149</sup>	66.28 <sup>236</sup>	23.427 <sup>160</sup>	27.36 <sup>351</sup>	33.467 <sup>167</sup>	17.63 <sup>37</sup>
14.9	51.186 <sup>326</sup>	41.86 <sup>113</sup>	29.263 <sup>195</sup>	63.92 <sup>247</sup>	23.587 <sup>224</sup>	23.85 <sup>345</sup>	33.634 <sup>214</sup>	18.00 <sup>67</sup>
24.9	51.512 <sup>385</sup>	40.73 <sup>68</sup>	29.458 <sup>238</sup>	61.45 <sup>254</sup>	23.811 <sup>284</sup>	20.40 <sup>330</sup>	33.848 <sup>256</sup>	18.67 <sup>97</sup>
Dez. 4.9	51.897 <sup>432</sup>	40.05 <sup>19</sup>	29.696 <sup>274</sup>	58.91 <sup>253</sup>	24.095 <sup>336</sup>	17.10 <sup>306</sup>	34.104 <sup>291</sup>	19.64 <sup>123</sup>
14.8	52.329 <sup>466</sup>	39.86 <sup>32</sup>	29.970 <sup>302</sup>	56.38 <sup>243</sup>	24.431 <sup>379</sup>	14.04 <sup>271</sup>	34.395 <sup>317</sup>	20.87 <sup>148</sup>
24.8	52.795 <sup>485</sup>	40.18 <sup>81</sup>	30.272 <sup>320</sup>	53.95 <sup>227</sup>	24.810 <sup>409</sup>	11.33 <sup>228</sup>	34.712 <sup>332</sup>	22.35 <sup>167</sup>
34.8	53.280	40.99	30.592	51.68	25.219	9.05	35.044	24.02
Mittl. Ort sec δ, tg δ	48.473 1.664	36.91 -1.330	27.628 1.051	77.75 +0.322	23.435 1.546	43.53 +1.180	31.289 1.050	10.15 -0.320



Mittlere Zeit Greenw.	512) ζ Centauri		513) η Bootis		517) II Bootis		516) τ Virginis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	13 <sup>h</sup> 50 <sup>m</sup>	-46° 53'	13 <sup>h</sup> 50 <sup>m</sup>	+18° 47'	13 <sup>h</sup> 57 <sup>m</sup>	+27° 45'	13 <sup>h</sup> 57 <sup>m</sup>	+1° 55'
Jan. 0.8	33.176 <sup>444</sup>	31.73 <sup>107</sup>	52.757 <sup>328</sup>	43.87 <sup>217</sup>	32.927 <sup>337</sup>	68.70 <sup>220</sup>	34.801 <sup>320</sup>	47.83 <sup>203</sup>
10.8	33.620 <sup>443</sup>	32.80 <sup>146</sup>	53.085 <sup>330</sup>	41.70 <sup>186</sup>	33.264 <sup>344</sup>	66.50 <sup>193</sup>	35.121 <sup>322</sup>	45.80 <sup>191</sup>
20.8	34.063 <sup>429</sup>	34.26 <sup>179</sup>	53.415 <sup>322</sup>	39.84 <sup>151</sup>	33.608 <sup>337</sup>	64.67 <sup>138</sup>	35.443 <sup>314</sup>	43.89 <sup>172</sup>
30.7	34.492 <sup>405</sup>	36.05 <sup>208</sup>	53.737 <sup>305</sup>	38.33 <sup>111</sup>	33.945 <sup>322</sup>	63.29 <sup>91</sup>	35.757 <sup>298</sup>	42.17 <sup>149</sup>
Feb. 9.7	34.897 <sup>372</sup>	38.13 <sup>228</sup>	54.042 <sup>281</sup>	37.22 <sup>68</sup>	34.267 <sup>297</sup>	62.38 <sup>40</sup>	36.055 <sup>275</sup>	40.68 <sup>121</sup>
19.7	35.269 <sup>335</sup>	40.41 <sup>244</sup>	54.323 <sup>250</sup>	36.54 <sup>24</sup>	34.564 <sup>267</sup>	61.98 <sup>9</sup>	36.330 <sup>247</sup>	39.47 <sup>91</sup>
29.6	35.604 <sup>292</sup>	42.85 <sup>252</sup>	54.573 <sup>216</sup>	36.30 <sup>18</sup>	34.831 <sup>231</sup>	62.07 <sup>57</sup>	36.577 <sup>215</sup>	38.56 <sup>60</sup>
März 10.6	35.896 <sup>247</sup>	45.37 <sup>255</sup>	54.789 <sup>179</sup>	36.48 <sup>56</sup>	35.062 <sup>193</sup>	62.64 <sup>99</sup>	36.792 <sup>182</sup>	37.96 <sup>30</sup>
20.6	36.143 <sup>202</sup>	47.92 <sup>254</sup>	54.968 <sup>143</sup>	37.04 <sup>91</sup>	35.255 <sup>153</sup>	63.63 <sup>136</sup>	36.974 <sup>148</sup>	37.66 <sup>1</sup>
30.6	36.345 <sup>158</sup>	50.46 <sup>246</sup>	55.111 <sup>107</sup>	37.95 <sup>118</sup>	35.408 <sup>114</sup>	64.99 <sup>164</sup>	37.122 <sup>117</sup>	37.65 <sup>25</sup>
Apr. 9.5	36.503 <sup>113</sup>	52.92 <sup>236</sup>	55.218 <sup>71</sup>	39.13 <sup>139</sup>	35.522 <sup>75</sup>	66.63 <sup>187</sup>	37.239 <sup>86</sup>	37.90 <sup>45</sup>
19.5	36.616 <sup>70</sup>	55.28 <sup>220</sup>	55.289 <sup>40</sup>	40.52 <sup>153</sup>	35.597 <sup>40</sup>	68.50 <sup>199</sup>	37.325 <sup>55</sup>	38.35 <sup>62</sup>
29.5	36.686 <sup>29</sup>	57.48 <sup>202</sup>	55.329 <sup>9</sup>	42.05 <sup>160</sup>	35.637 <sup>7</sup>	70.49 <sup>205</sup>	37.380 <sup>28</sup>	38.97 <sup>75</sup>
Mai 9.5	36.715 <sup>11</sup>	59.50 <sup>180</sup>	55.338 <sup>19</sup>	43.65 <sup>162</sup>	35.644 <sup>25</sup>	72.54 <sup>201</sup>	37.408 <sup>1</sup>	39.72 <sup>85</sup>
19.4	36.704 <sup>49</sup>	61.30 <sup>154</sup>	55.319 <sup>43</sup>	45.27 <sup>157</sup>	35.619 <sup>52</sup>	74.55 <sup>192</sup>	37.409 <sup>22</sup>	40.57 <sup>88</sup>
29.4	36.655 <sup>85</sup>	62.84 <sup>126</sup>	55.276 <sup>67</sup>	46.84 <sup>146</sup>	35.567 <sup>79</sup>	76.47 <sup>177</sup>	37.387 <sup>45</sup>	41.45 <sup>90</sup>
Juni 8.4	36.570 <sup>119</sup>	64.10 <sup>95</sup>	55.209 <sup>87</sup>	48.30 <sup>133</sup>	35.488 <sup>101</sup>	78.24 <sup>156</sup>	37.342 <sup>66</sup>	42.35 <sup>89</sup>
18.3	36.451 <sup>149</sup>	65.05 <sup>61</sup>	55.122 <sup>106</sup>	49.63 <sup>114</sup>	35.387 <sup>121</sup>	79.80 <sup>131</sup>	37.276 <sup>85</sup>	43.24 <sup>85</sup>
28.3	36.302 <sup>176</sup>	65.66 <sup>27</sup>	55.016 <sup>120</sup>	50.77 <sup>93</sup>	35.266 <sup>138</sup>	81.11 <sup>102</sup>	37.191 <sup>102</sup>	44.09 <sup>79</sup>
Juli 8.3	36.126 <sup>196</sup>	65.93 <sup>9</sup>	54.896 <sup>132</sup>	51.70 <sup>70</sup>	35.128 <sup>150</sup>	82.13 <sup>72</sup>	37.089 <sup>115</sup>	44.88 <sup>71</sup>
18.3	35.930 <sup>210</sup>	65.84 <sup>45</sup>	54.764 <sup>141</sup>	52.40 <sup>45</sup>	34.978 <sup>160</sup>	82.85 <sup>40</sup>	36.974 <sup>125</sup>	45.59 <sup>61</sup>
28.2	35.720 <sup>217</sup>	65.39 <sup>80</sup>	54.623 <sup>145</sup>	52.85 <sup>19</sup>	34.818 <sup>164</sup>	83.25 <sup>7</sup>	36.849 <sup>132</sup>	46.20 <sup>50</sup>
Aug. 7.2	35.503 <sup>214</sup>	64.59 <sup>113</sup>	54.478 <sup>142</sup>	53.04 <sup>8</sup>	34.654 <sup>162</sup>	83.32 <sup>28</sup>	36.717 <sup>132</sup>	46.70 <sup>37</sup>
17.2	35.289 <sup>202</sup>	63.46 <sup>142</sup>	54.336 <sup>136</sup>	52.96 <sup>36</sup>	34.492 <sup>156</sup>	83.04 <sup>63</sup>	36.585 <sup>127</sup>	47.07 <sup>22</sup>
27.1	35.087 <sup>180</sup>	62.04 <sup>167</sup>	54.200 <sup>123</sup>	52.60 <sup>65</sup>	34.336 <sup>141</sup>	82.41 <sup>96</sup>	36.458 <sup>115</sup>	47.29 <sup>6</sup>
Sept. 6.1	34.907 <sup>146</sup>	60.37 <sup>186</sup>	54.077 <sup>102</sup>	51.95 <sup>93</sup>	34.195 <sup>121</sup>	81.45 <sup>129</sup>	36.343 <sup>96</sup>	47.35 <sup>12</sup>
16.1	34.761 <sup>103</sup>	58.51 <sup>198</sup>	53.975 <sup>74</sup>	51.02 <sup>122</sup>	34.074 <sup>92</sup>	80.16 <sup>162</sup>	36.247 <sup>70</sup>	47.23 <sup>32</sup>
26.1	34.658 <sup>50</sup>	56.53 <sup>202</sup>	53.901 <sup>41</sup>	49.80 <sup>149</sup>	33.982 <sup>57</sup>	78.54 <sup>192</sup>	36.177 <sup>38</sup>	46.91 <sup>54</sup>
Okt. 6.0	34.608 <sup>11</sup>	54.51 <sup>196</sup>	53.860 <sup>0</sup>	48.31 <sup>176</sup>	33.925 <sup>16</sup>	76.62 <sup>220</sup>	36.139 <sup>2</sup>	46.37 <sup>77</sup>
16.0	34.619 <sup>76</sup>	52.55 <sup>183</sup>	53.860 <sup>44</sup>	46.55 <sup>201</sup>	33.909 <sup>32</sup>	74.42 <sup>244</sup>	36.141 <sup>46</sup>	45.60 <sup>102</sup>
26.0	34.695 <sup>146</sup>	50.72 <sup>162</sup>	53.904 <sup>93</sup>	44.54 <sup>223</sup>	33.941 <sup>81</sup>	71.98 <sup>265</sup>	36.187 <sup>94</sup>	44.58 <sup>127</sup>
Nov. 5.0	34.841 <sup>213</sup>	49.10 <sup>130</sup>	53.997 <sup>141</sup>	42.31 <sup>240</sup>	34.022 <sup>134</sup>	69.33 <sup>280</sup>	36.281 <sup>140</sup>	43.31 <sup>149</sup>
14.9	35.054 <sup>276</sup>	47.80 <sup>95</sup>	54.138 <sup>189</sup>	39.91 <sup>253</sup>	34.156 <sup>184</sup>	66.53 <sup>288</sup>	36.421 <sup>187</sup>	41.82 <sup>171</sup>
24.9	35.330 <sup>333</sup>	46.85 <sup>54</sup>	54.327 <sup>233</sup>	37.38 <sup>259</sup>	34.340 <sup>231</sup>	63.65 <sup>288</sup>	36.608 <sup>230</sup>	40.11 <sup>188</sup>
Dez. 4.9	35.663 <sup>378</sup>	46.31 <sup>8</sup>	54.560 <sup>271</sup>	34.79 <sup>258</sup>	34.571 <sup>272</sup>	60.77 <sup>280</sup>	36.838 <sup>265</sup>	38.23 <sup>200</sup>
14.8	36.041 <sup>413</sup>	46.23 <sup>36</sup>	54.831 <sup>299</sup>	32.21 <sup>248</sup>	34.843 <sup>305</sup>	57.97 <sup>266</sup>	37.103 <sup>294</sup>	36.23 <sup>207</sup>
24.8	36.454 <sup>434</sup>	46.59 <sup>80</sup>	55.130 <sup>319</sup>	29.73 <sup>231</sup>	35.148 <sup>328</sup>	55.31 <sup>240</sup>	37.397 <sup>311</sup>	34.16 <sup>206</sup>
34.8	36.888	47.39	55.449	27.42	35.476	52.91	37.708	32.10
Mittl. Ort sec δ, tg δ	32.375 1.463	42.74 -1.068	52.536 1.056	53.54 +0.340	32.883 1.130	80.73 +0.527	34.428 1.001	51.75 +0.034

Mittlere Zeit Greenw.	518) $\beta$ Centauri		520) $\eta$ Centauri		521) $\alpha$ Draconis		522) $d$ Bootis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$13^h 58^m$	$-59^\circ 59'$	$14^h 1^m$	$-35^\circ 58'$	$14^h 2^m$	$+64^\circ 44'$	$14^h 6^m$	$+25^\circ 27'$
Jan. 0.8	10.693 <sub>573</sub>	2.36 <sub>62</sub>	58.702 <sub>385</sub>	29.20 <sub>125</sub>	11.88 <sub>56</sub>	68.93 <sub>196</sub>	45.090 <sub>331</sub>	61.27 <sub>225</sub>
10.8	11.266 <sub>575</sub>	2.98 <sub>111</sub>	59.087 <sub>386</sub>	30.45 <sub>153</sub>	12.44 <sub>59</sub>	66.97 <sub>135</sub>	45.421 <sub>338</sub>	59.02 <sub>189</sub>
20.8	11.841 <sub>561</sub>	4.09 <sub>155</sub>	59.473 <sub>376</sub>	31.98 <sub>177</sub>	13.03 <sub>59</sub>	65.62 <sub>69</sub>	45.759 <sub>333</sub>	57.13 <sub>147</sub>
30.7	12.402 <sub>535</sub>	5.64 <sub>195</sub>	59.849 <sub>357</sub>	33.75 <sub>194</sub>	13.62 <sub>58</sub>	64.93 <sub>2</sub>	46.092 <sub>320</sub>	55.66 <sub>102</sub>
Feb. 9.7	12.937 <sub>495</sub>	7.59 <sub>228</sub>	60.206 <sub>332</sub>	35.69 <sub>205</sub>	14.20 <sub>54</sub>	64.91 <sub>63</sub>	46.412 <sub>297</sub>	54.64 <sub>53</sub>
19.7	13.432 <sub>447</sub>	9.87 <sub>255</sub>	60.538 <sub>299</sub>	37.74 <sub>212</sub>	14.74 <sub>48</sub>	65.54 <sub>127</sub>	46.709 <sub>269</sub>	54.11 <sub>4</sub>
29.7	13.879 <sub>395</sub>	12.42 <sub>274</sub>	60.837 <sub>264</sub>	39.86 <sub>212</sub>	15.22 <sub>42</sub>	66.81 <sub>182</sub>	46.978 <sub>235</sub>	54.07 <sub>43</sub>
März 10.6	14.274 <sub>337</sub>	15.16 <sub>288</sub>	61.101 <sub>227</sub>	41.98 <sub>209</sub>	15.64 <sub>34</sub>	68.63 <sub>231</sub>	47.213 <sub>199</sub>	54.50 <sub>85</sub>
20.6	14.611 <sub>277</sub>	18.04 <sub>295</sub>	61.328 <sub>188</sub>	44.07 <sub>201</sub>	15.98 <sub>25</sub>	70.94 <sub>268</sub>	47.412 <sub>161</sub>	55.35 <sub>123</sub>
30.6	14.888 <sub>217</sub>	20.99 <sub>295</sub>	61.516 <sub>151</sub>	46.08 <sub>191</sub>	16.23 <sub>17</sub>	73.62 <sub>294</sub>	47.573 <sub>123</sub>	56.58 <sub>153</sub>
Apr. 9.5	15.105 <sub>155</sub>	23.94 <sub>290</sub>	61.667 <sub>114</sub>	47.99 <sub>178</sub>	16.40 <sub>8</sub>	76.56 <sub>309</sub>	47.696 <sub>86</sub>	58.11 <sub>176</sub>
19.5	15.260 <sub>95</sub>	26.84 <sub>280</sub>	61.781 <sub>78</sub>	49.77 <sub>162</sub>	16.48 <sub>1</sub>	79.65 <sub>313</sub>	47.782 <sub>52</sub>	59.87 <sub>190</sub>
29.5	15.355 <sub>36</sub>	29.64 <sub>264</sub>	61.859 <sub>44</sub>	51.39 <sub>145</sub>	16.47 <sub>9</sub>	82.78 <sub>305</sub>	47.834 <sub>18</sub>	61.77 <sub>197</sub>
Mai 9.5	15.391 <sub>22</sub>	32.28 <sub>242</sub>	61.903 <sub>11</sub>	52.84 <sub>126</sub>	16.38 <sub>16</sub>	85.83 <sub>286</sub>	47.852 <sub>12</sub>	63.74 <sub>197</sub>
19.4	15.369 <sub>79</sub>	34.70 <sub>216</sub>	61.914 <sub>22</sub>	54.10 <sub>105</sub>	16.22 <sub>24</sub>	88.69 <sub>259</sub>	47.840 <sub>41</sub>	65.71 <sub>189</sub>
29.4	15.290 <sub>132</sub>	36.86 <sub>185</sub>	61.892 <sub>52</sub>	55.15 <sub>83</sub>	15.98 <sub>29</sub>	91.28 <sub>224</sub>	47.799 <sub>67</sub>	67.60 <sub>175</sub>
Juni 8.4	15.158 <sub>182</sub>	38.71 <sub>150</sub>	61.840 <sub>82</sub>	55.98 <sub>58</sub>	15.69 <sub>34</sub>	93.52 <sub>184</sub>	47.732 <sub>91</sub>	69.35 <sub>157</sub>
18.4	14.976 <sub>226</sub>	40.21 <sub>111</sub>	61.758 <sub>108</sub>	56.56 <sub>33</sub>	15.35 <sub>38</sub>	95.36 <sub>137</sub>	47.641 <sub>112</sub>	70.92 <sub>135</sub>
28.3	14.750 <sub>264</sub>	41.32 <sub>70</sub>	61.650 <sub>132</sub>	56.89 <sub>7</sub>	14.97 <sub>41</sub>	96.73 <sub>88</sub>	47.529 <sub>130</sub>	72.27 <sub>108</sub>
Juli 8.3	14.486 <sub>294</sub>	42.02 <sub>25</sub>	61.518 <sub>152</sub>	56.96 <sub>19</sub>	14.56 <sub>43</sub>	97.61 <sub>37</sub>	47.399 <sub>144</sub>	73.35 <sub>79</sub>
18.3	14.192 <sub>315</sub>	42.27 <sub>19</sub>	61.366 <sub>167</sub>	56.77 <sub>46</sub>	14.13 <sub>44</sub>	97.98 <sub>15</sub>	47.255 <sub>155</sub>	74.14 <sub>49</sub>
28.2	13.877 <sub>324</sub>	42.08 <sub>63</sub>	61.199 <sub>175</sub>	56.31 <sub>72</sub>	13.69 <sub>44</sub>	97.83 <sub>68</sub>	47.100 <sub>161</sub>	74.63 <sub>16</sub>
Aug. 7.2	13.553 <sub>321</sub>	41.45 <sub>107</sub>	61.024 <sub>176</sub>	55.59 <sub>94</sub>	13.25 <sub>43</sub>	97.15 <sub>118</sub>	46.939 <sub>162</sub>	74.79 <sub>16</sub>
17.2	13.232 <sub>304</sub>	40.38 <sub>147</sub>	60.848 <sub>170</sub>	54.65 <sub>116</sub>	12.82 <sub>41</sub>	95.97 <sub>167</sub>	46.777 <sub>156</sub>	74.63 <sub>49</sub>
27.2	12.928 <sub>273</sub>	38.91 <sub>183</sub>	60.678 <sub>154</sub>	53.49 <sub>132</sub>	12.41 <sub>37</sub>	94.30 <sub>212</sub>	46.621 <sub>144</sub>	74.14 <sub>83</sub>
Sept. 6.1	12.655 <sub>227</sub>	37.08 <sub>212</sub>	60.524 <sub>128</sub>	52.17 <sub>144</sub>	12.04 <sub>32</sub>	92.18 <sub>254</sub>	46.477 <sub>125</sub>	73.31 <sub>115</sub>
16.1	12.428 <sub>167</sub>	34.96 <sub>234</sub>	60.396 <sub>94</sub>	50.73 <sub>149</sub>	11.72 <sub>27</sub>	89.64 <sub>290</sub>	46.352 <sub>98</sub>	72.16 <sub>147</sub>
26.1	12.261 <sub>96</sub>	32.62 <sub>247</sub>	60.302 <sub>51</sub>	49.24 <sub>149</sub>	11.45 <sub>20</sub>	86.74 <sub>322</sub>	46.254 <sub>64</sub>	70.69 <sub>177</sub>
Okt. 6.1	12.165 <sub>13</sub>	30.15 <sub>250</sub>	60.251 <sub>0</sub>	47.75 <sub>140</sub>	11.25 <sub>13</sub>	83.52 <sub>348</sub>	46.190 <sub>23</sub>	68.92 <sub>206</sub>
16.0	12.152 <sub>75</sub>	27.65 <sub>243</sub>	60.251 <sub>55</sub>	46.35 <sub>125</sub>	11.12 <sub>3</sub>	80.04 <sub>365</sub>	46.167 <sub>22</sub>	66.86 <sub>231</sub>
26.0	12.227 <sub>166</sub>	25.22 <sub>227</sub>	60.306 <sub>114</sub>	45.10 <sub>104</sub>	11.09 <sub>5</sub>	76.39 <sub>376</sub>	46.189 <sub>72</sub>	64.55 <sub>253</sub>
Nov. 5.0	12.393 <sub>257</sub>	22.95 <sub>199</sub>	60.420 <sub>173</sub>	44.06 <sub>75</sub>	11.14 <sub>15</sub>	72.63 <sub>376</sub>	46.261 <sub>124</sub>	62.02 <sub>270</sub>
14.9	12.650 <sub>343</sub>	20.96 <sub>163</sub>	60.593 <sub>230</sub>	43.31 <sub>42</sub>	11.29 <sub>24</sub>	68.87 <sub>367</sub>	46.385 <sub>174</sub>	59.32 <sub>280</sub>
24.9	12.993 <sub>417</sub>	19.33 <sub>121</sub>	60.823 <sub>279</sub>	42.89 <sub>6</sub>	11.53 <sub>33</sub>	65.20 <sub>348</sub>	46.559 <sub>221</sub>	56.52 <sub>283</sub>
Dez. 4.9	13.410 <sub>480</sub>	18.12 <sub>73</sub>	61.102 <sub>322</sub>	42.83 <sub>32</sub>	11.86 <sub>42</sub>	61.72 <sub>319</sub>	46.780 <sub>263</sub>	53.69 <sub>278</sub>
14.9	13.890 <sub>528</sub>	17.39 <sub>22</sub>	61.424 <sub>354</sub>	43.15 <sub>69</sub>	12.28 <sub>49</sub>	58.53 <sub>279</sub>	47.043 <sub>296</sub>	50.91 <sub>265</sub>
24.8	14.418 <sub>557</sub>	17.17 <sub>30</sub>	61.778 <sub>374</sub>	43.84 <sub>104</sub>	12.77 <sub>54</sub>	55.74 <sub>230</sub>	47.339 <sub>320</sub>	48.26 <sub>242</sub>
34.8	14.975	17.47	62.152	44.88	13.31	53.44	47.659	45.84
Mittl. Ort sec $\delta$ , tg $\delta$	9.849 1.999	16.32 -1.731	58.058 1.236	37.49 -0.726	13.34 2.345	88.43 +2.121	45.067 1.108	72.18 +0.476

Mittlere Zeit Greenw.	523) $\alpha$ Virginis		524) 4 Ursae min.		525) $\iota$ Virginis		526) $\alpha$ Bootis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	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° 35'
Jan. 0.8	37.952 <sup>325</sup>	6.78 <sup>180</sup>	63.88 <sup>102</sup>	64.31 <sup>180</sup>	49.373 <sup>320</sup>	10.90 <sup>189</sup>	0.797 <sup>320</sup>	45.06 <sup>228</sup>
10.8	38.277 <sup>328</sup>	8.58 <sup>181</sup>	64.90 <sup>109</sup>	62.51 <sup>117</sup>	49.693 <sup>324</sup>	12.79 <sup>185</sup>	1.117 <sup>326</sup>	42.78 <sup>199</sup>
20.8	38.605 <sup>321</sup>	10.39 <sup>176</sup>	65.99 <sup>111</sup>	61.34 <sup>50</sup>	50.017 <sup>319</sup>	14.64 <sup>176</sup>	1.443 <sup>323</sup>	40.79 <sup>163</sup>
30.7	38.926 <sup>307</sup>	12.15 <sup>166</sup>	67.10 <sup>109</sup>	60.84 <sup>18</sup>	50.336 <sup>304</sup>	16.40 <sup>161</sup>	1.766 <sup>310</sup>	39.16 <sup>122</sup>
Feb. 9.7	39.233 <sup>285</sup>	13.81 <sup>150</sup>	68.19 <sup>103</sup>	61.02 <sup>84</sup>	50.640 <sup>283</sup>	18.01 <sup>141</sup>	2.076 <sup>289</sup>	37.94 <sup>78</sup>
19.7	39.518 <sup>258</sup>	15.31 <sup>131</sup>	69.22 <sup>94</sup>	61.86 <sup>147</sup>	50.923 <sup>258</sup>	19.42 <sup>117</sup>	2.365 <sup>262</sup>	37.16 <sup>33</sup>
29.7	39.776 <sup>228</sup>	16.62 <sup>109</sup>	70.16 <sup>81</sup>	63.33 <sup>202</sup>	51.181 <sup>228</sup>	20.59 <sup>93</sup>	2.627 <sup>230</sup>	36.83 <sup>11</sup>
März 10.6	40.004 <sup>196</sup>	17.71 <sup>87</sup>	70.97 <sup>67</sup>	65.35 <sup>249</sup>	51.409 <sup>196</sup>	21.52 <sup>67</sup>	2.857 <sup>196</sup>	36.94 <sup>51</sup>
20.6	40.200 <sup>165</sup>	18.58 <sup>64</sup>	71.64 <sup>48</sup>	67.84 <sup>285</sup>	51.605 <sup>165</sup>	22.19 <sup>41</sup>	3.053 <sup>161</sup>	37.45 <sup>88</sup>
30.6	40.365 <sup>132</sup>	19.22 <sup>43</sup>	72.12 <sup>31</sup>	70.69 <sup>309</sup>	51.770 <sup>133</sup>	22.60 <sup>19</sup>	3.214 <sup>126</sup>	38.33 <sup>118</sup>
Apr. 9.5	40.497 <sup>102</sup>	19.65 <sup>23</sup>	72.43 <sup>12</sup>	73.78 <sup>321</sup>	51.903 <sup>102</sup>	22.79 <sup>2</sup>	3.340 <sup>91</sup>	39.51 <sup>141</sup>
19.5	40.599 <sup>72</sup>	19.88 <sup>5</sup>	72.55 <sup>7</sup>	76.99 <sup>322</sup>	52.005 <sup>73</sup>	22.77 <sup>19</sup>	3.431 <sup>58</sup>	40.92 <sup>157</sup>
29.5	40.671 <sup>44</sup>	19.93 <sup>9</sup>	72.48 <sup>24</sup>	80.21 <sup>311</sup>	52.078 <sup>45</sup>	22.58 <sup>34</sup>	3.489 <sup>27</sup>	42.49 <sup>166</sup>
Mai 9.5	40.715 <sup>17</sup>	19.84 <sup>22</sup>	72.24 <sup>41</sup>	83.32 <sup>289</sup>	52.123 <sup>19</sup>	22.24 <sup>45</sup>	3.516 <sup>2</sup>	44.15 <sup>169</sup>
19.4	40.732 <sup>8</sup>	19.62 <sup>33</sup>	71.83 <sup>56</sup>	86.21 <sup>260</sup>	52.142 <sup>7</sup>	21.79 <sup>54</sup>	3.514 <sup>30</sup>	45.84 <sup>165</sup>
29.4	40.724 <sup>33</sup>	19.29 <sup>41</sup>	71.27 <sup>69</sup>	88.81 <sup>221</sup>	52.135 <sup>32</sup>	21.25 <sup>59</sup>	3.484 <sup>56</sup>	47.49 <sup>155</sup>
Juni 8.4	40.691 <sup>56</sup>	18.88 <sup>48</sup>	70.58 <sup>79</sup>	91.02 <sup>177</sup>	52.103 <sup>55</sup>	20.66 <sup>63</sup>	3.428 <sup>79</sup>	49.04 <sup>140</sup>
18.4	40.635 <sup>78</sup>	18.40 <sup>54</sup>	69.79 <sup>88</sup>	92.79 <sup>128</sup>	52.048 <sup>76</sup>	20.03 <sup>65</sup>	3.349 <sup>100</sup>	50.44 <sup>123</sup>
28.3	40.557 <sup>97</sup>	17.86 <sup>58</sup>	68.91 <sup>94</sup>	94.07 <sup>76</sup>	51.972 <sup>95</sup>	19.38 <sup>66</sup>	3.249 <sup>119</sup>	51.67 <sup>102</sup>
Juli 8.3	40.460 <sup>113</sup>	17.28 <sup>60</sup>	67.97 <sup>98</sup>	94.83 <sup>22</sup>	51.877 <sup>112</sup>	18.72 <sup>64</sup>	3.130 <sup>134</sup>	52.69 <sup>77</sup>
18.3	40.347 <sup>125</sup>	16.68 <sup>62</sup>	66.99 <sup>100</sup>	95.05 <sup>32</sup>	51.765 <sup>125</sup>	18.08 <sup>61</sup>	2.996 <sup>146</sup>	53.46 <sup>51</sup>
28.2	40.222 <sup>134</sup>	16.06 <sup>62</sup>	65.99 <sup>100</sup>	94.73 <sup>85</sup>	51.640 <sup>133</sup>	17.47 <sup>57</sup>	2.850 <sup>153</sup>	53.97 <sup>25</sup>
Aug. 7.2	40.088 <sup>137</sup>	15.44 <sup>61</sup>	64.99 <sup>96</sup>	93.88 <sup>136</sup>	51.507 <sup>137</sup>	16.90 <sup>51</sup>	2.697 <sup>155</sup>	54.22 <sup>5</sup>
17.2	39.951 <sup>134</sup>	14.83 <sup>57</sup>	64.03 <sup>91</sup>	92.52 <sup>186</sup>	51.370 <sup>134</sup>	16.39 <sup>44</sup>	2.542 <sup>151</sup>	54.17 <sup>34</sup>
27.2	39.817 <sup>123</sup>	14.26 <sup>50</sup>	63.12 <sup>85</sup>	90.66 <sup>231</sup>	51.236 <sup>124</sup>	15.95 <sup>34</sup>	2.391 <sup>141</sup>	53.83 <sup>63</sup>
Sept. 6.1	39.694 <sup>104</sup>	13.76 <sup>42</sup>	62.27 <sup>75</sup>	88.35 <sup>271</sup>	51.112 <sup>106</sup>	15.61 <sup>21</sup>	2.250 <sup>122</sup>	53.20 <sup>93</sup>
16.1	39.590 <sup>79</sup>	13.34 <sup>29</sup>	61.52 <sup>63</sup>	85.64 <sup>306</sup>	51.006 <sup>81</sup>	15.40 <sup>6</sup>	2.128 <sup>97</sup>	52.27 <sup>123</sup>
26.1	39.511 <sup>46</sup>	13.05 <sup>13</sup>	60.89 <sup>50</sup>	82.58 <sup>337</sup>	50.925 <sup>48</sup>	15.34 <sup>12</sup>	2.031 <sup>65</sup>	51.04 <sup>151</sup>
Okt. 6.1	39.465 <sup>5</sup>	12.92 <sup>6</sup>	60.39 <sup>35</sup>	79.21 <sup>360</sup>	50.877 <sup>10</sup>	15.46 <sup>32</sup>	1.966 <sup>26</sup>	49.53 <sup>180</sup>
16.0	39.460 <sup>40</sup>	12.98 <sup>27</sup>	60.04 <sup>18</sup>	75.61 <sup>374</sup>	50.867 <sup>35</sup>	15.78 <sup>55</sup>	1.940 <sup>19</sup>	47.73 <sup>205</sup>
26.0	39.500 <sup>89</sup>	13.25 <sup>52</sup>	59.86 <sup>1</sup>	71.87 <sup>381</sup>	50.902 <sup>83</sup>	16.33 <sup>79</sup>	1.959 <sup>67</sup>	45.68 <sup>228</sup>
Nov. 5.0	39.589 <sup>137</sup>	13.77 <sup>77</sup>	59.85 <sup>17</sup>	68.06 <sup>378</sup>	50.985 <sup>131</sup>	17.12 <sup>104</sup>	2.026 <sup>118</sup>	43.40 <sup>247</sup>
14.9	39.726 <sup>186</sup>	14.54 <sup>103</sup>	60.02 <sup>35</sup>	64.28 <sup>367</sup>	51.116 <sup>179</sup>	18.16 <sup>127</sup>	2.144 <sup>166</sup>	40.93 <sup>260</sup>
24.9	39.912 <sup>229</sup>	15.57 <sup>126</sup>	60.37 <sup>54</sup>	60.61 <sup>343</sup>	51.295 <sup>223</sup>	19.43 <sup>149</sup>	2.310 <sup>212</sup>	38.33 <sup>268</sup>
Dez. 4.9	40.141 <sup>267</sup>	16.83 <sup>147</sup>	60.91 <sup>71</sup>	57.18 <sup>311</sup>	51.518 <sup>261</sup>	20.92 <sup>167</sup>	2.522 <sup>253</sup>	35.65 <sup>267</sup>
14.9	40.408 <sup>295</sup>	18.30 <sup>164</sup>	61.62 <sup>85</sup>	54.07 <sup>267</sup>	51.779 <sup>290</sup>	22.59 <sup>180</sup>	2.775 <sup>286</sup>	32.98 <sup>260</sup>
24.8	40.703 <sup>316</sup>	19.94 <sup>176</sup>	62.47 <sup>97</sup>	51.40 <sup>216</sup>	52.069 <sup>310</sup>	24.39 <sup>187</sup>	3.061 <sup>308</sup>	30.38 <sup>242</sup>
34.8	41.019	21.70	63.44	49.24	52.379	26.26	3.369	27.96
Mittl. Ort secd, tg d	37.534 1.015	7.14 -0.175	68.16 4.780	84.43 +4.674	49.008 1.005	9.96 -0.098	0.714 1.061	53.99 +0.356

Mittlere Zeit Greenw.	527) $\lambda$ Bootis		531) $\theta$ Bootis		534) $\rho$ Bootis		535) $\gamma$ Bootis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	14 <sup>h</sup> 13 <sup>m</sup>	+46° 26'	14 <sup>h</sup> 22 <sup>m</sup>	+52° 12'	14 <sup>h</sup> 28 <sup>m</sup>	+30° 42'	14 <sup>h</sup> 28 <sup>m</sup>	+38° 39'
Jan. 0.8	20.091 <sup>388</sup>	62.64 <sup>227</sup>	27.589 <sup>414</sup>	55.80 <sup>233</sup>	22.746 <sup>330</sup>	67.85 <sup>237</sup>	51.035 <sup>349</sup>	14.21 <sup>240</sup>
10.8	20.479 <sup>402</sup>	60.37 <sup>175</sup>	28.003 <sup>434</sup>	53.47 <sup>178</sup>	23.076 <sup>342</sup>	65.48 <sup>199</sup>	51.384 <sup>364</sup>	11.81 <sup>196</sup>
20.8	20.881 <sup>403</sup>	58.62 <sup>118</sup>	28.437 <sup>439</sup>	51.69 <sup>119</sup>	23.418 <sup>344</sup>	63.49 <sup>153</sup>	51.748 <sup>367</sup>	9.85 <sup>144</sup>
30.7	21.284 <sup>391</sup>	57.44 <sup>58</sup>	28.876 <sup>430</sup>	50.50 <sup>56</sup>	23.762 <sup>334</sup>	61.96 <sup>104</sup>	52.115 <sup>358</sup>	8.41 <sup>89</sup>
Feb. 9.7	21.675 <sup>367</sup>	56.86 <sup>4</sup>	29.306 <sup>408</sup>	49.94 <sup>8</sup>	24.096 <sup>316</sup>	60.92 <sup>51</sup>	52.473 <sup>339</sup>	7.52 <sup>30</sup>
19.7	22.042 <sup>334</sup>	56.90 <sup>64</sup>	29.714 <sup>373</sup>	50.02 <sup>71</sup>	24.412 <sup>291</sup>	60.41 <sup>3</sup>	52.812 <sup>313</sup>	7.22 <sup>27</sup>
29.7	22.376 <sup>292</sup>	57.54 <sup>120</sup>	30.087 <sup>330</sup>	50.73 <sup>130</sup>	24.703 <sup>259</sup>	60.44 <sup>54</sup>	53.125 <sup>278</sup>	7.49 <sup>82</sup>
März 10.6	22.668 <sup>246</sup>	58.74 <sup>169</sup>	30.417 <sup>279</sup>	52.03 <sup>180</sup>	24.962 <sup>224</sup>	60.98 <sup>101</sup>	53.403 <sup>239</sup>	8.31 <sup>132</sup>
20.6	22.914 <sup>195</sup>	60.43 <sup>210</sup>	30.696 <sup>224</sup>	53.83 <sup>224</sup>	25.186 <sup>186</sup>	61.99 <sup>143</sup>	53.642 <sup>198</sup>	9.63 <sup>175</sup>
30.6	23.109 <sup>144</sup>	62.53 <sup>243</sup>	30.920 <sup>166</sup>	56.07 <sup>257</sup>	25.372 <sup>148</sup>	63.42 <sup>176</sup>	53.840 <sup>154</sup>	11.38 <sup>209</sup>
Apr. 9.6	23.253 <sup>92</sup>	64.96 <sup>263</sup>	31.086 <sup>107</sup>	58.64 <sup>279</sup>	25.520 <sup>109</sup>	65.18 <sup>201</sup>	53.994 <sup>111</sup>	13.47 <sup>235</sup>
19.5	23.345 <sup>43</sup>	67.59 <sup>275</sup>	31.193 <sup>50</sup>	61.43 <sup>291</sup>	25.629 <sup>72</sup>	67.19 <sup>218</sup>	54.105 <sup>68</sup>	15.82 <sup>251</sup>
29.5	23.388 <sup>5</sup>	70.34 <sup>276</sup>	31.243 <sup>5</sup>	64.34 <sup>292</sup>	25.701 <sup>35</sup>	69.37 <sup>227</sup>	54.173 <sup>27</sup>	18.33 <sup>257</sup>
Mai 9.5	23.383 <sup>49</sup>	73.10 <sup>268</sup>	31.238 <sup>57</sup>	67.26 <sup>283</sup>	25.736 <sup>1</sup>	71.64 <sup>226</sup>	54.200 <sup>12</sup>	20.90 <sup>253</sup>
19.4	23.334 <sup>89</sup>	75.78 <sup>250</sup>	31.181 <sup>105</sup>	70.09 <sup>264</sup>	25.737 <sup>32</sup>	73.90 <sup>219</sup>	54.188 <sup>49</sup>	23.43 <sup>243</sup>
29.4	23.245 <sup>126</sup>	78.28 <sup>225</sup>	31.076 <sup>148</sup>	72.73 <sup>238</sup>	25.705 <sup>61</sup>	76.09 <sup>203</sup>	54.139 <sup>82</sup>	25.86 <sup>224</sup>
Juni 8.4	23.119 <sup>159</sup>	80.53 <sup>194</sup>	30.928 <sup>186</sup>	75.11 <sup>205</sup>	25.644 <sup>90</sup>	78.12 <sup>184</sup>	54.057 <sup>113</sup>	28.10 <sup>198</sup>
18.4	22.960 <sup>185</sup>	82.47 <sup>158</sup>	30.742 <sup>219</sup>	77.16 <sup>167</sup>	25.554 <sup>115</sup>	79.96 <sup>158</sup>	53.944 <sup>141</sup>	30.08 <sup>168</sup>
28.3	22.775 <sup>209</sup>	84.05 <sup>118</sup>	30.523 <sup>246</sup>	78.83 <sup>124</sup>	25.439 <sup>137</sup>	81.54 <sup>128</sup>	53.803 <sup>164</sup>	31.76 <sup>133</sup>
Juli 8.3	22.566 <sup>226</sup>	85.23 <sup>74</sup>	30.277 <sup>268</sup>	80.07 <sup>78</sup>	25.302 <sup>156</sup>	82.82 <sup>96</sup>	53.639 <sup>184</sup>	33.09 <sup>96</sup>
18.3	22.340 <sup>239</sup>	85.97 <sup>30</sup>	30.009 <sup>281</sup>	80.85 <sup>30</sup>	25.146 <sup>170</sup>	83.78 <sup>61</sup>	53.455 <sup>198</sup>	34.05 <sup>55</sup>
28.3	22.101 <sup>243</sup>	86.27 <sup>16</sup>	29.728 <sup>290</sup>	81.15 <sup>18</sup>	24.976 <sup>179</sup>	84.39 <sup>25</sup>	53.257 <sup>209</sup>	34.60 <sup>14</sup>
Aug. 7.2	21.858 <sup>243</sup>	86.11 <sup>61</sup>	29.438 <sup>288</sup>	80.97 <sup>65</sup>	24.797 <sup>184</sup>	84.64 <sup>12</sup>	53.048 <sup>211</sup>	34.74 <sup>28</sup>
17.2	21.615 <sup>234</sup>	85.50 <sup>106</sup>	29.150 <sup>281</sup>	80.32 <sup>114</sup>	24.613 <sup>181</sup>	84.52 <sup>49</sup>	52.837 <sup>207</sup>	34.46 <sup>71</sup>
27.2	21.381 <sup>217</sup>	84.44 <sup>150</sup>	28.869 <sup>262</sup>	79.18 <sup>159</sup>	24.432 <sup>171</sup>	84.03 <sup>87</sup>	52.630 <sup>196</sup>	33.75 <sup>111</sup>
Sept. 6.1	21.164 <sup>192</sup>	82.94 <sup>190</sup>	28.607 <sup>235</sup>	77.59 <sup>202</sup>	24.261 <sup>154</sup>	83.16 <sup>123</sup>	52.434 <sup>177</sup>	32.64 <sup>151</sup>
16.1	20.972 <sup>158</sup>	81.04 <sup>228</sup>	28.372 <sup>199</sup>	75.57 <sup>241</sup>	24.107 <sup>128</sup>	81.93 <sup>159</sup>	52.257 <sup>149</sup>	31.13 <sup>189</sup>
26.1	20.814 <sup>117</sup>	78.76 <sup>263</sup>	28.173 <sup>154</sup>	73.16 <sup>278</sup>	23.979 <sup>95</sup>	80.34 <sup>191</sup>	52.108 <sup>113</sup>	29.24 <sup>225</sup>
Okt. 6.1	20.697 <sup>67</sup>	76.13 <sup>293</sup>	28.019 <sup>100</sup>	70.38 <sup>308</sup>	23.884 <sup>55</sup>	78.43 <sup>223</sup>	51.995 <sup>69</sup>	26.99 <sup>256</sup>
16.0	20.630 <sup>11</sup>	73.20 <sup>316</sup>	27.919 <sup>39</sup>	67.30 <sup>332</sup>	23.829 <sup>7</sup>	76.20 <sup>250</sup>	51.926 <sup>20</sup>	24.43 <sup>283</sup>
26.0	20.619 <sup>50</sup>	70.04 <sup>335</sup>	27.880 <sup>29</sup>	63.98 <sup>351</sup>	23.822 <sup>43</sup>	73.70 <sup>272</sup>	51.906 <sup>36</sup>	21.60 <sup>305</sup>
Nov. 5.0	20.669 <sup>113</sup>	66.69 <sup>345</sup>	27.909 <sup>98</sup>	60.47 <sup>360</sup>	23.865 <sup>97</sup>	70.98 <sup>290</sup>	51.942 <sup>93</sup>	18.55 <sup>320</sup>
15.0	20.782 <sup>176</sup>	63.24 <sup>346</sup>	28.007 <sup>169</sup>	56.87 <sup>360</sup>	23.962 <sup>151</sup>	68.08 <sup>300</sup>	52.035 <sup>151</sup>	15.35 <sup>327</sup>
24.9	20.958 <sup>237</sup>	59.78 <sup>337</sup>	28.176 <sup>236</sup>	53.27 <sup>352</sup>	24.113 <sup>202</sup>	65.08 <sup>303</sup>	52.186 <sup>207</sup>	12.08 <sup>326</sup>
Dez. 4.9	21.195 <sup>291</sup>	56.41 <sup>320</sup>	28.412 <sup>299</sup>	49.75 <sup>331</sup>	24.315 <sup>248</sup>	62.05 <sup>297</sup>	52.393 <sup>257</sup>	8.82 <sup>315</sup>
14.9	21.486 <sup>337</sup>	53.21 <sup>292</sup>	28.711 <sup>353</sup>	46.44 <sup>302</sup>	24.563 <sup>286</sup>	59.08 <sup>282</sup>	52.650 <sup>300</sup>	5.67 <sup>294</sup>
24.8	21.823 <sup>372</sup>	50.29 <sup>255</sup>	29.064 <sup>394</sup>	43.42 <sup>262</sup>	24.849 <sup>316</sup>	56.26 <sup>256</sup>	52.950 <sup>333</sup>	2.73 <sup>263</sup>
34.8	22.195	47.74	29.458	40.80	25.165	53.70	53.283	0.10
Mittl. Ort	20.619	78.41	28.433	72.07	22.955	79.02	51.437	27.29
sec $\delta$ , tg $\delta$	1.452	+1.052	1.631	+1.290	1.163	+0.594	1.281	+0.800

Mittlere Zeit Greenwich.	537) $\eta$ Centauri		538) $\alpha$ Centauri*)		543) $\zeta$ Bootis med.		542) $\alpha$ Apodis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	14 <sup>h</sup> 30 <sup>m</sup>	-41° 48'	14 <sup>h</sup> 34 <sup>m</sup>	-60° 30'	14 <sup>h</sup> 37 <sup>m</sup>	+14° 3'	14 <sup>h</sup> 37 <sup>m</sup>	-78° 42'
Jan. 0.8	25.672 <sup>405</sup>	15.84 <sup>77</sup>	10.38 <sup>56</sup>	2.39 <sup>20</sup>	19.689 <sup>308</sup>	68.49 <sup>222</sup>	51.14 <sup>128</sup>	8.09 <sup>50</sup>
10.8	26.077 <sup>413</sup>	16.61 <sup>110</sup>	10.94 <sup>58</sup>	2.59 <sup>68</sup>	19.997 <sup>318</sup>	66.27 <sup>199</sup>	52.42 <sup>134</sup>	7.59 <sup>7</sup>
20.8	26.490 <sup>409</sup>	17.71 <sup>140</sup>	11.52 <sup>57</sup>	3.27 <sup>113</sup>	20.315 <sup>319</sup>	64.28 <sup>170</sup>	53.76 <sup>134</sup>	7.66 <sup>63</sup>
30.8	26.899 <sup>397</sup>	19.11 <sup>164</sup>	12.09 <sup>55</sup>	4.40 <sup>154</sup>	20.634 <sup>311</sup>	62.58 <sup>134</sup>	55.10 <sup>132</sup>	8.29 <sup>116</sup>
Feb. 9.7	27.296 <sup>374</sup>	20.75 <sup>183</sup>	12.64 <sup>52</sup>	5.94 <sup>189</sup>	20.945 <sup>294</sup>	61.24 <sup>95</sup>	56.42 <sup>127</sup>	9.45 <sup>165</sup>
19.7	27.670 <sup>346</sup>	22.58 <sup>197</sup>	13.16 <sup>48</sup>	7.83 <sup>218</sup>	21.239 <sup>272</sup>	60.29 <sup>53</sup>	57.69 <sup>118</sup>	11.10 <sup>208</sup>
29.7	28.016 <sup>313</sup>	24.55 <sup>205</sup>	13.64 <sup>44</sup>	10.01 <sup>242</sup>	21.511 <sup>246</sup>	59.76 <sup>13</sup>	58.87 <sup>109</sup>	13.18 <sup>246</sup>
März 10.6	28.329 <sup>277</sup>	26.60 <sup>209</sup>	14.08 <sup>38</sup>	12.43 <sup>259</sup>	21.757 <sup>215</sup>	59.63 <sup>27</sup>	59.96 <sup>97</sup>	15.64 <sup>276</sup>
20.6	28.606 <sup>238</sup>	28.69 <sup>208</sup>	14.46 <sup>32</sup>	15.02 <sup>271</sup>	21.972 <sup>184</sup>	59.90 <sup>63</sup>	60.93 <sup>83</sup>	18.40 <sup>301</sup>
30.6	28.844 <sup>201</sup>	30.77 <sup>205</sup>	14.78 <sup>27</sup>	17.73 <sup>276</sup>	22.156 <sup>152</sup>	60.53 <sup>94</sup>	61.76 <sup>68</sup>	21.41 <sup>318</sup>
Apr. 9.6	29.045 <sup>161</sup>	32.82 <sup>197</sup>	15.05 <sup>20</sup>	20.49 <sup>276</sup>	22.308 <sup>120</sup>	61.47 <sup>119</sup>	62.44 <sup>53</sup>	24.59 <sup>328</sup>
19.5	29.206 <sup>123</sup>	34.79 <sup>186</sup>	15.25 <sup>14</sup>	23.25 <sup>270</sup>	22.428 <sup>89</sup>	62.66 <sup>138</sup>	62.97 <sup>37</sup>	27.87 <sup>333</sup>
29.5	29.329 <sup>84</sup>	36.65 <sup>173</sup>	15.39 <sup>8</sup>	25.95 <sup>260</sup>	22.517 <sup>58</sup>	64.04 <sup>150</sup>	63.34 <sup>20</sup>	31.20 <sup>328</sup>
Mai 9.5	29.413 <sup>46</sup>	38.38 <sup>157</sup>	15.47 <sup>1</sup>	28.55 <sup>244</sup>	22.575 <sup>28</sup>	65.54 <sup>157</sup>	63.54 <sup>2</sup>	34.48 <sup>318</sup>
19.5	29.459 <sup>7</sup>	39.95 <sup>139</sup>	15.48 <sup>4</sup>	30.99 <sup>223</sup>	22.603 <sup>0</sup>	67.11 <sup>157</sup>	63.56 <sup>13</sup>	37.66 <sup>300</sup>
29.4	29.466 <sup>30</sup>	41.34 <sup>118</sup>	15.44 <sup>10</sup>	33.22 <sup>197</sup>	22.603 <sup>27</sup>	68.68 <sup>152</sup>	63.43 <sup>30</sup>	40.66 <sup>274</sup>
Juni 8.4	29.436 <sup>66</sup>	42.52 <sup>94</sup>	15.34 <sup>15</sup>	35.19 <sup>167</sup>	22.576 <sup>53</sup>	70.20 <sup>142</sup>	63.13 <sup>45</sup>	43.40 <sup>244</sup>
18.4	29.370 <sup>100</sup>	43.46 <sup>69</sup>	15.19 <sup>21</sup>	36.86 <sup>133</sup>	22.523 <sup>78</sup>	71.62 <sup>129</sup>	62.68 <sup>59</sup>	45.84 <sup>206</sup>
28.3	29.270 <sup>132</sup>	44.15 <sup>42</sup>	14.98 <sup>26</sup>	38.19 <sup>95</sup>	22.445 <sup>99</sup>	72.91 <sup>112</sup>	62.09 <sup>72</sup>	47.90 <sup>164</sup>
Juli 8.3	29.138 <sup>159</sup>	44.57 <sup>12</sup>	14.72 <sup>30</sup>	39.14 <sup>54</sup>	22.346 <sup>120</sup>	74.03 <sup>93</sup>	61.37 <sup>81</sup>	49.54 <sup>115</sup>
18.3	28.979 <sup>181</sup>	44.69 <sup>17</sup>	14.42 <sup>33</sup>	39.68 <sup>11</sup>	22.226 <sup>135</sup>	74.96 <sup>71</sup>	60.56 <sup>90</sup>	50.69 <sup>64</sup>
28.3	28.798 <sup>196</sup>	44.52 <sup>48</sup>	14.09 <sup>34</sup>	39.79 <sup>33</sup>	22.091 <sup>146</sup>	75.67 <sup>48</sup>	59.66 <sup>95</sup>	51.33 <sup>11</sup>
Aug. 7.2	28.602 <sup>204</sup>	44.04 <sup>76</sup>	13.75 <sup>35</sup>	39.46 <sup>76</sup>	21.945 <sup>154</sup>	76.15 <sup>24</sup>	58.71 <sup>95</sup>	51.44 <sup>44</sup>
17.2	28.398 <sup>201</sup>	43.28 <sup>103</sup>	13.40 <sup>35</sup>	38.70 <sup>118</sup>	21.791 <sup>153</sup>	76.39 <sup>1</sup>	57.76 <sup>94</sup>	51.00 <sup>98</sup>
27.2	28.197 <sup>190</sup>	42.25 <sup>127</sup>	13.05 <sup>32</sup>	37.52 <sup>156</sup>	21.638 <sup>147</sup>	76.38 <sup>28</sup>	56.82 <sup>88</sup>	50.02 <sup>149</sup>
Sept. 6.2	28.007 <sup>167</sup>	40.98 <sup>146</sup>	12.73 <sup>28</sup>	35.96 <sup>189</sup>	21.491 <sup>133</sup>	76.10 <sup>55</sup>	55.94 <sup>78</sup>	48.53 <sup>196</sup>
16.1	27.840 <sup>133</sup>	39.52 <sup>160</sup>	12.45 <sup>23</sup>	34.07 <sup>216</sup>	21.358 <sup>111</sup>	75.55 <sup>83</sup>	55.16 <sup>65</sup>	46.57 <sup>236</sup>
26.1	27.707 <sup>89</sup>	37.92 <sup>167</sup>	12.22 <sup>16</sup>	31.91 <sup>236</sup>	21.247 <sup>81</sup>	74.72 <sup>110</sup>	54.51 <sup>48</sup>	44.21 <sup>268</sup>
Okt. 6.1	27.618 <sup>37</sup>	36.25 <sup>166</sup>	12.06 <sup>8</sup>	29.55 <sup>245</sup>	21.166 <sup>44</sup>	73.62 <sup>137</sup>	54.03 <sup>29</sup>	41.53 <sup>290</sup>
16.0	27.581 <sup>22</sup>	34.59 <sup>160</sup>	11.98 <sup>1</sup>	27.10 <sup>245</sup>	21.122 <sup>2</sup>	72.25 <sup>164</sup>	53.74 <sup>8</sup>	38.63 <sup>302</sup>
26.0	27.603 <sup>85</sup>	32.99 <sup>143</sup>	11.99 <sup>10</sup>	24.65 <sup>236</sup>	21.120 <sup>46</sup>	70.61 <sup>188</sup>	53.66 <sup>14</sup>	35.61 <sup>300</sup>
Nov. 5.0	27.688 <sup>151</sup>	31.56 <sup>121</sup>	12.09 <sup>20</sup>	22.29 <sup>215</sup>	21.166 <sup>96</sup>	68.73 <sup>210</sup>	53.80 <sup>38</sup>	32.61 <sup>289</sup>
15.0	27.839 <sup>214</sup>	30.35 <sup>93</sup>	12.29 <sup>29</sup>	20.14 <sup>186</sup>	21.262 <sup>145</sup>	66.63 <sup>227</sup>	54.18 <sup>58</sup>	29.72 <sup>264</sup>
24.9	28.053 <sup>272</sup>	29.42 <sup>58</sup>	12.58 <sup>37</sup>	18.28 <sup>150</sup>	21.407 <sup>191</sup>	64.36 <sup>239</sup>	54.76 <sup>80</sup>	27.08 <sup>231</sup>
Dez. 4.9	28.325 <sup>322</sup>	28.84 <sup>21</sup>	12.95 <sup>45</sup>	16.78 <sup>107</sup>	21.598 <sup>234</sup>	61.97 <sup>244</sup>	55.56 <sup>97</sup>	24.77 <sup>188</sup>
14.9	28.647 <sup>361</sup>	28.63 <sup>16</sup>	13.40 <sup>50</sup>	15.71 <sup>59</sup>	21.832 <sup>269</sup>	59.53 <sup>242</sup>	56.53 <sup>111</sup>	22.89 <sup>138</sup>
24.9	29.008 <sup>390</sup>	28.79 <sup>55</sup>	13.90 <sup>54</sup>	15.12 <sup>11</sup>	22.101 <sup>294</sup>	57.11 <sup>233</sup>	57.64 <sup>122</sup>	21.51 <sup>85</sup>
34.8	29.398	29.34	14.44	15.01	22.395	54.78	58.86	20.66
Mittl. Ort	25.185	26.01	9.81	16.69	19.670	74.58	51.03	24.58
sec $\delta$ , tg $\delta$	1.342	-0.894	2.031	-1.768	1.031	+0.251	5.107	-5.008

\*) 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.
1920	$14^{\text{h}} 38^{\text{m}}$	$-5^{\circ} 18'$	$14^{\text{h}} 42^{\text{m}}$	$+2^{\circ} 13'$	$14^{\text{h}} 46^{\text{m}}$	$-15^{\circ} 42'$	$14^{\text{h}} 49^{\text{m}}$	$+59^{\circ} 36'$
Jan. 0.8	50.728 <sup>312</sup>	40.51 <sup>181</sup>	12.302 <sup>306</sup>	42.62 <sup>198</sup>	27.215 <sup>320</sup>	33.43 <sup>148</sup>	22.870 <sup>449</sup>	51.51 <sup>250</sup>
10.8	51.040 <sup>320</sup>	42.32 <sup>179</sup>	12.608 <sup>315</sup>	40.64 <sup>188</sup>	27.535 <sup>330</sup>	34.91 <sup>155</sup>	23.319 <sup>484</sup>	49.01 <sup>197</sup>
20.8	51.360 <sup>319</sup>	44.11 <sup>168</sup>	12.923 <sup>315</sup>	38.76 <sup>170</sup>	27.865 <sup>330</sup>	36.46 <sup>158</sup>	23.803 <sup>503</sup>	47.04 <sup>135</sup>
30.8	51.679 <sup>310</sup>	45.79 <sup>155</sup>	13.238 <sup>308</sup>	37.06 <sup>147</sup>	28.195 <sup>321</sup>	38.04 <sup>155</sup>	24.306 <sup>505</sup>	45.69 <sup>70</sup>
Feb. 9.7	51.989 <sup>293</sup>	47.34 <sup>134</sup>	13.546 <sup>291</sup>	35.59 <sup>119</sup>	28.516 <sup>307</sup>	39.59 <sup>146</sup>	24.811 <sup>489</sup>	44.99 <sup>4</sup>
19.7	52.282 <sup>272</sup>	48.68 <sup>110</sup>	13.837 <sup>271</sup>	34.40 <sup>89</sup>	28.823 <sup>284</sup>	41.05 <sup>134</sup>	25.300 <sup>459</sup>	44.95 <sup>64</sup>
29.7	52.554 <sup>246</sup>	49.78 <sup>86</sup>	14.108 <sup>245</sup>	33.51 <sup>57</sup>	29.107 <sup>260</sup>	42.39 <sup>118</sup>	25.759 <sup>416</sup>	45.59 <sup>125</sup>
März 10.6	52.800 <sup>218</sup>	50.64 <sup>60</sup>	14.353 <sup>218</sup>	32.94 <sup>26</sup>	29.367 <sup>232</sup>	43.57 <sup>101</sup>	26.175 <sup>362</sup>	46.84 <sup>181</sup>
20.6	53.018 <sup>189</sup>	51.24 <sup>34</sup>	14.571 <sup>187</sup>	32.68 <sup>5</sup>	29.599 <sup>203</sup>	44.58 <sup>82</sup>	26.537 <sup>300</sup>	48.65 <sup>229</sup>
30.6	53.207 <sup>158</sup>	51.58 <sup>12</sup>	14.758 <sup>158</sup>	32.73 <sup>31</sup>	29.802 <sup>173</sup>	45.40 <sup>65</sup>	26.837 <sup>233</sup>	50.94 <sup>267</sup>
Apr. 9.6	53.365 <sup>129</sup>	51.70 <sup>10</sup>	14.916 <sup>128</sup>	33.04 <sup>55</sup>	29.975 <sup>144</sup>	46.05 <sup>48</sup>	27.070 <sup>163</sup>	53.61 <sup>294</sup>
19.5	53.494 <sup>100</sup>	51.60 <sup>27</sup>	15.044 <sup>99</sup>	33.59 <sup>72</sup>	30.119 <sup>114</sup>	46.53 <sup>33</sup>	27.233 <sup>91</sup>	56.55 <sup>310</sup>
29.5	53.594 <sup>72</sup>	51.33 <sup>41</sup>	15.143 <sup>69</sup>	34.31 <sup>87</sup>	30.233 <sup>85</sup>	46.86 <sup>19</sup>	27.324 <sup>22</sup>	59.65 <sup>315</sup>
Mai 9.5	53.666 <sup>43</sup>	50.92 <sup>52</sup>	15.212 <sup>42</sup>	35.18 <sup>96</sup>	30.318 <sup>55</sup>	47.05 <sup>6</sup>	27.346 <sup>46</sup>	62.80 <sup>308</sup>
19.5	53.709 <sup>16</sup>	50.40 <sup>61</sup>	15.254 <sup>14</sup>	36.14 <sup>101</sup>	30.373 <sup>27</sup>	47.11 <sup>5</sup>	27.300 <sup>109</sup>	65.88 <sup>292</sup>
29.4	53.725 <sup>11</sup>	49.79 <sup>65</sup>	15.268 <sup>13</sup>	37.15 <sup>103</sup>	30.400 <sup>2</sup>	47.06 <sup>14</sup>	27.191 <sup>168</sup>	68.80 <sup>267</sup>
Juni 8.4	53.714 <sup>37</sup>	49.14 <sup>67</sup>	15.255 <sup>39</sup>	38.18 <sup>100</sup>	30.398 <sup>31</sup>	46.92 <sup>23</sup>	27.023 <sup>222</sup>	71.47 <sup>235</sup>
18.4	53.677 <sup>62</sup>	48.47 <sup>69</sup>	15.216 <sup>64</sup>	39.18 <sup>95</sup>	30.367 <sup>57</sup>	46.69 <sup>30</sup>	26.801 <sup>268</sup>	73.82 <sup>197</sup>
28.3	53.615 <sup>85</sup>	47.78 <sup>68</sup>	15.152 <sup>87</sup>	40.13 <sup>89</sup>	30.310 <sup>83</sup>	46.39 <sup>37</sup>	26.533 <sup>308</sup>	75.79 <sup>153</sup>
Juli 8.3	53.530 <sup>105</sup>	47.10 <sup>65</sup>	15.065 <sup>107</sup>	41.02 <sup>79</sup>	30.227 <sup>106</sup>	46.02 <sup>44</sup>	26.225 <sup>339</sup>	77.32 <sup>105</sup>
18.3	53.425 <sup>123</sup>	46.45 <sup>61</sup>	14.958 <sup>125</sup>	41.81 <sup>68</sup>	30.121 <sup>125</sup>	45.58 <sup>49</sup>	25.886 <sup>363</sup>	78.37 <sup>56</sup>
28.3	53.302 <sup>136</sup>	45.84 <sup>56</sup>	14.833 <sup>137</sup>	42.49 <sup>56</sup>	29.996 <sup>141</sup>	45.09 <sup>54</sup>	25.523 <sup>379</sup>	78.93 <sup>6</sup>
Aug. 7.2	53.166 <sup>143</sup>	45.28 <sup>50</sup>	14.696 <sup>145</sup>	43.05 <sup>42</sup>	29.855 <sup>149</sup>	44.55 <sup>58</sup>	25.144 <sup>383</sup>	78.99 <sup>46</sup>
17.2	53.023 <sup>144</sup>	44.78 <sup>41</sup>	14.551 <sup>147</sup>	43.47 <sup>26</sup>	29.706 <sup>153</sup>	43.97 <sup>60</sup>	24.761 <sup>379</sup>	78.53 <sup>97</sup>
27.2	52.879 <sup>138</sup>	44.37 <sup>32</sup>	14.404 <sup>141</sup>	43.73 <sup>10</sup>	29.553 <sup>146</sup>	43.37 <sup>60</sup>	24.382 <sup>363</sup>	77.56 <sup>145</sup>
Sept. 6.2	52.741 <sup>125</sup>	44.05 <sup>20</sup>	14.263 <sup>128</sup>	43.83 <sup>7</sup>	29.407 <sup>133</sup>	42.77 <sup>57</sup>	24.019 <sup>336</sup>	76.11 <sup>192</sup>
16.1	52.616 <sup>102</sup>	43.85 <sup>5</sup>	14.135 <sup>107</sup>	43.76 <sup>28</sup>	29.274 <sup>111</sup>	42.20 <sup>51</sup>	23.683 <sup>297</sup>	74.19 <sup>235</sup>
26.1	52.514 <sup>73</sup>	43.80 <sup>12</sup>	14.028 <sup>78</sup>	43.48 <sup>50</sup>	29.163 <sup>80</sup>	41.69 <sup>42</sup>	23.386 <sup>248</sup>	71.84 <sup>274</sup>
Okt. 6.1	52.441 <sup>34</sup>	43.92 <sup>31</sup>	13.950 <sup>41</sup>	42.98 <sup>72</sup>	29.083 <sup>41</sup>	41.27 <sup>28</sup>	23.138 <sup>187</sup>	69.10 <sup>308</sup>
16.0	52.407 <sup>8</sup>	44.23 <sup>52</sup>	13.909 <sup>1</sup>	42.26 <sup>95</sup>	29.042 <sup>3</sup>	40.99 <sup>11</sup>	22.951 <sup>118</sup>	66.02 <sup>336</sup>
26.0	52.415 <sup>55</sup>	44.75 <sup>75</sup>	13.910 <sup>48</sup>	41.31 <sup>120</sup>	29.045 <sup>53</sup>	40.88 <sup>9</sup>	22.833 <sup>41</sup>	62.66 <sup>357</sup>
Nov. 5.0	52.470 <sup>106</sup>	45.50 <sup>99</sup>	13.958 <sup>96</sup>	40.11 <sup>142</sup>	29.098 <sup>104</sup>	40.97 <sup>32</sup>	22.792 <sup>43</sup>	59.09 <sup>370</sup>
15.0	52.576 <sup>154</sup>	46.49 <sup>122</sup>	14.054 <sup>146</sup>	38.69 <sup>163</sup>	29.202 <sup>156</sup>	41.29 <sup>56</sup>	22.835 <sup>126</sup>	55.39 <sup>372</sup>
24.9	52.730 <sup>200</sup>	47.71 <sup>142</sup>	14.200 <sup>192</sup>	37.06 <sup>181</sup>	29.358 <sup>203</sup>	41.85 <sup>80</sup>	22.961 <sup>211</sup>	51.67 <sup>366</sup>
Dez. 4.9	52.930 <sup>241</sup>	49.13 <sup>160</sup>	14.392 <sup>233</sup>	35.25 <sup>194</sup>	29.561 <sup>246</sup>	42.65 <sup>104</sup>	23.172 <sup>290</sup>	48.01 <sup>348</sup>
14.9	53.171 <sup>275</sup>	50.73 <sup>172</sup>	14.625 <sup>267</sup>	33.31 <sup>201</sup>	29.807 <sup>281</sup>	43.69 <sup>124</sup>	23.462 <sup>360</sup>	44.53 <sup>319</sup>
24.9	53.446 <sup>298</sup>	52.45 <sup>180</sup>	14.892 <sup>292</sup>	31.30 <sup>201</sup>	30.088 <sup>307</sup>	44.93 <sup>140</sup>	23.822 <sup>420</sup>	41.34 <sup>280</sup>
34.8	53.744	54.25	15.184	29.29	30.395	46.33	24.242	38.54
Mittl. Ort	50.508	40.34	12.170	44.97	26.953	36.61	24.435	66.95
sec $\delta$ , tg $\delta$	1.004	-0.093	1.001	+0.039	1.039	-0.281	1.977	+1.706

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.
1920	14 <sup>h</sup> 50 <sup>m</sup>	+74° 28'	14 <sup>h</sup> 52 <sup>m</sup>	+14° 45'	14 <sup>h</sup> 53 <sup>m</sup>	-42° 48'	14 <sup>h</sup> 58 <sup>m</sup>	+40° 41'
Jan. 0.8	51.39 <sub>74</sub>	40.13 <sub>234</sub>	26.553 <sub>302</sub>	61.93 <sub>226</sub>	17.349 <sub>401</sub>	35.28 <sub>49</sub>	55.292 <sub>336</sub>	67.83 <sub>261</sub>
10.8	52.13 <sub>82</sub>	37.79 <sub>176</sub>	26.855 <sub>314</sub>	59.67 <sub>202</sub>	17.750 <sub>415</sub>	35.77 <sub>82</sub>	55.618 <sub>357</sub>	65.22 <sub>218</sub>
20.8	52.95 <sub>86</sub>	36.03 <sub>113</sub>	27.169 <sub>317</sub>	57.65 <sub>173</sub>	18.165 <sub>416</sub>	36.59 <sub>113</sub>	55.985 <sub>369</sub>	63.04 <sub>167</sub>
30.8	53.81 <sub>88</sub>	34.90 <sub>45</sub>	27.486 <sub>313</sub>	55.92 <sub>138</sub>	18.581 <sub>409</sub>	37.72 <sub>138</sub>	56.354 <sub>367</sub>	61.37 <sub>111</sub>
Feb. 9.7	54.69 <sub>86</sub>	34.45 <sub>23</sub>	27.799 <sub>299</sub>	54.54 <sub>97</sub>	18.990 <sub>391</sub>	39.10 <sub>159</sub>	56.721 <sub>355</sub>	60.26 <sub>52</sub>
19.7	55.55 <sub>81</sub>	34.68 <sub>90</sub>	28.098 <sub>279</sub>	53.57 <sub>56</sub>	19.381 <sub>367</sub>	40.69 <sub>175</sub>	57.076 <sub>335</sub>	59.74 <sub>8</sub>
29.7	56.36 <sub>73</sub>	35.58 <sub>152</sub>	28.377 <sub>254</sub>	53.01 <sub>13</sub>	19.748 <sub>338</sub>	42.44 <sub>187</sub>	57.411 <sub>307</sub>	59.82 <sub>67</sub>
März 10.7	57.09 <sub>64</sub>	37.10 <sub>206</sub>	28.631 <sub>227</sub>	52.88 <sub>28</sub>	20.086 <sub>305</sub>	44.31 <sub>192</sub>	57.718 <sub>271</sub>	60.49 <sub>121</sub>
20.6	57.73 <sub>52</sub>	39.16 <sub>253</sub>	28.858 <sub>197</sub>	53.16 <sub>65</sub>	20.391 <sub>269</sub>	46.23 <sub>196</sub>	57.989 <sub>233</sub>	61.70 <sub>168</sub>
30.6	58.25 <sub>39</sub>	41.69 <sub>288</sub>	29.055 <sub>165</sub>	53.81 <sub>97</sub>	20.660 <sub>232</sub>	48.19 <sub>194</sub>	58.222 <sub>190</sub>	63.38 <sub>208</sub>
Apr. 9.6	58.64 <sub>25</sub>	44.57 <sub>313</sub>	29.220 <sub>135</sub>	54.78 <sub>123</sub>	20.892 <sub>195</sub>	50.13 <sub>191</sub>	58.412 <sub>148</sub>	65.46 <sub>239</sub>
19.5	58.89 <sub>11</sub>	47.70 <sub>324</sub>	29.355 <sub>103</sub>	56.01 <sub>144</sub>	21.087 <sub>155</sub>	52.04 <sub>184</sub>	58.560 <sub>104</sub>	67.85 <sub>259</sub>
29.5	59.00 <sub>4</sub>	50.94 <sub>325</sub>	29.458 <sub>72</sub>	57.45 <sub>158</sub>	21.242 <sub>116</sub>	53.88 <sub>174</sub>	58.664 <sub>61</sub>	70.44 <sub>270</sub>
Mai 9.5	58.96 <sub>17</sub>	54.19 <sub>314</sub>	29.530 <sub>42</sub>	59.03 <sub>164</sub>	21.358 <sub>76</sub>	55.62 <sub>161</sub>	58.725 <sub>19</sub>	73.14 <sub>272</sub>
19.5	58.79 <sub>30</sub>	57.33 <sub>295</sub>	29.572 <sub>12</sub>	60.67 <sub>166</sub>	21.434 <sub>36</sub>	57.23 <sub>147</sub>	58.744 <sub>22</sub>	75.86 <sub>263</sub>
29.4	58.49 <sub>41</sub>	60.28 <sub>265</sub>	29.584 <sub>16</sub>	62.33 <sub>160</sub>	21.470 <sub>5</sub>	58.70 <sub>129</sub>	58.722 <sub>60</sub>	78.49 <sub>248</sub>
Juni 8.4	58.08 <sub>51</sub>	62.93 <sub>228</sub>	29.568 <sub>44</sub>	63.93 <sub>152</sub>	21.465 <sub>45</sub>	59.99 <sub>108</sub>	58.662 <sub>96</sub>	80.97 <sub>225</sub>
18.4	57.57 <sub>61</sub>	65.21 <sub>186</sub>	29.524 <sub>70</sub>	65.45 <sub>138</sub>	21.420 <sub>83</sub>	61.07 <sub>85</sub>	58.566 <sub>130</sub>	83.22 <sub>196</sub>
28.4	56.96 <sub>68</sub>	67.07 <sub>139</sub>	29.454 <sub>95</sub>	66.83 <sub>120</sub>	21.337 <sub>118</sub>	61.92 <sub>59</sub>	58.436 <sub>160</sub>	85.18 <sub>163</sub>
Juli 8.3	56.28 <sub>73</sub>	68.46 <sub>88</sub>	29.359 <sub>116</sub>	68.03 <sub>101</sub>	21.219 <sub>151</sub>	62.51 <sub>31</sub>	58.276 <sub>185</sub>	86.81 <sub>124</sub>
18.3	55.55 <sub>77</sub>	69.34 <sub>36</sub>	29.243 <sub>135</sub>	69.04 <sub>79</sub>	21.068 <sub>178</sub>	62.82 <sub>3</sub>	58.091 <sub>206</sub>	88.05 <sub>84</sub>
28.3	54.78 <sub>80</sub>	69.70 <sub>18</sub>	29.108 <sub>149</sub>	69.83 <sub>54</sub>	20.890 <sub>199</sub>	62.85 <sub>27</sub>	57.885 <sub>222</sub>	88.89 <sub>41</sub>
Aug. 7.2	53.98 <sub>79</sub>	69.52 <sub>70</sub>	28.959 <sub>157</sub>	70.37 <sub>30</sub>	20.691 <sub>211</sub>	62.58 <sub>56</sub>	57.663 <sub>230</sub>	89.30 <sub>3</sub>
17.2	53.19 <sub>78</sub>	68.82 <sub>122</sub>	28.802 <sub>160</sub>	70.67 <sub>3</sub>	20.480 <sub>214</sub>	62.02 <sub>85</sub>	57.433 <sub>233</sub>	89.27 <sub>46</sub>
27.2	52.41 <sub>74</sub>	67.60 <sub>172</sub>	28.642 <sub>156</sub>	70.70 <sub>24</sub>	20.266 <sub>207</sub>	61.17 <sub>110</sub>	57.200 <sub>225</sub>	88.81 <sub>91</sub>
Sept. 6.2	51.67 <sub>69</sub>	65.88 <sub>218</sub>	28.486 <sub>144</sub>	70.46 <sub>51</sub>	20.059 <sub>188</sub>	60.07 <sub>133</sub>	56.975 <sub>211</sub>	87.90 <sub>133</sub>
16.1	50.98 <sub>62</sub>	63.70 <sub>260</sub>	28.342 <sub>123</sub>	69.95 <sub>80</sub>	19.871 <sub>158</sub>	58.74 <sub>150</sub>	56.764 <sub>186</sub>	86.57 <sub>174</sub>
26.1	50.36 <sub>52</sub>	61.10 <sub>297</sub>	28.219 <sub>96</sub>	69.15 <sub>109</sub>	19.713 <sub>117</sub>	57.24 <sub>161</sub>	56.578 <sub>154</sub>	84.83 <sub>212</sub>
Okt. 6.1	49.84 <sub>42</sub>	58.13 <sub>329</sub>	28.123 <sub>59</sub>	68.06 <sub>136</sub>	19.596 <sub>66</sub>	55.63 <sub>165</sub>	56.424 <sub>111</sub>	82.71 <sub>248</sub>
16.1	49.42 <sub>30</sub>	54.84 <sub>353</sub>	28.064 <sub>18</sub>	66.70 <sub>163</sub>	19.530 <sub>7</sub>	53.98 <sub>163</sub>	56.313 <sub>63</sub>	80.23 <sub>278</sub>
26.0	49.12 <sub>15</sub>	51.31 <sub>371</sub>	28.046 <sub>30</sub>	65.07 <sub>188</sub>	19.523 <sub>56</sub>	52.35 <sub>152</sub>	56.250 <sub>7</sub>	77.45 <sub>304</sub>
Nov. 5.0	48.97 <sub>1</sub>	47.60 <sub>379</sub>	28.076 <sub>79</sub>	63.19 <sub>211</sub>	19.579 <sub>124</sub>	50.83 <sub>133</sub>	56.243 <sub>52</sub>	74.41 <sub>322</sub>
15.0	48.96 <sub>14</sub>	43.81 <sub>377</sub>	28.155 <sub>130</sub>	61.08 <sub>228</sub>	19.703 <sub>189</sub>	49.50 <sub>109</sub>	56.295 <sub>112</sub>	71.19 <sub>334</sub>
24.9	49.10 <sub>29</sub>	40.04 <sub>366</sub>	28.285 <sub>177</sub>	58.80 <sub>240</sub>	19.892 <sub>250</sub>	48.41 <sub>79</sub>	56.407 <sub>171</sub>	67.85 <sub>336</sub>
Dez. 4.9	49.39 <sub>44</sub>	36.38 <sub>343</sub>	28.462 <sub>220</sub>	56.40 <sub>247</sub>	20.142 <sub>304</sub>	47.62 <sub>46</sub>	56.578 <sub>226</sub>	64.49 <sub>329</sub>
14.9	49.83 <sub>57</sub>	32.95 <sub>310</sub>	28.682 <sub>258</sub>	53.93 <sub>246</sub>	20.446 <sub>349</sub>	47.16 <sub>9</sub>	56.804 <sub>276</sub>	61.20 <sub>312</sub>
24.9	50.40 <sub>69</sub>	29.85 <sub>267</sub>	28.940 <sub>286</sub>	51.47 <sub>235</sub>	20.795 <sub>382</sub>	47.07 <sub>28</sub>	57.080 <sub>314</sub>	58.08 <sub>283</sub>
34.8	51.09	27.18	29.226	49.12	21.177	47.35	57.394	55.25
Mittl. Ort sec $\delta$ , tg $\delta$	55.36 3.738	56.84 +3.602	26.622 1.034	67.49 +0.264	17.013 1.363	45.81 -0.926	55.953 1.319	79.36 +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.
1920	14 <sup>h</sup> 59 <sup>m</sup>	-24° 58'	15 <sup>h</sup> 1 <sup>m</sup>	+27° 15'	15 <sup>h</sup> 6 <sup>m</sup>	-51° 47'	15 <sup>h</sup> 11 <sup>m</sup>	-68° 22'
Jan. 0.9	23.243 <sub>333</sub>	0.64 <sub>109</sub>	0.722 <sub>306</sub>	23.36 <sub>248</sub>	31.855 <sub>453</sub>	32.36 <sub>1</sub>	25.12 <sub>70</sub>	52.36 <sub>65</sub>
10.8	23.576 <sub>345</sub>	1.73 <sub>125</sub>	1.028 <sub>324</sub>	20.88 <sub>216</sub>	32.308 <sub>474</sub>	32.37 <sub>41</sub>	25.82 <sub>73</sub>	51.71 <sub>16</sub>
20.8	23.921 <sub>348</sub>	2.98 <sub>137</sub>	1.352 <sub>331</sub>	18.72 <sub>176</sub>	32.782 <sub>481</sub>	32.78 <sub>78</sub>	26.55 <sub>76</sub>	51.55 <sub>33</sub>
30.8	24.269 <sub>341</sub>	4.35 <sub>145</sub>	1.683 <sub>328</sub>	16.96 <sub>128</sub>	33.263 <sub>475</sub>	33.56 <sub>112</sub>	27.31 <sub>75</sub>	51.88 <sub>80</sub>
Feb. 9.7	24.610 <sub>328</sub>	5.80 <sub>147</sub>	2.011 <sub>317</sub>	15.68 <sub>79</sub>	33.738 <sub>461</sub>	34.68 <sub>142</sub>	28.06 <sub>74</sub>	52.68 <sub>124</sub>
19.7	24.938 <sub>307</sub>	7.27 <sub>144</sub>	2.328 <sub>299</sub>	14.89 <sub>27</sub>	34.199 <sub>436</sub>	36.10 <sub>167</sub>	28.80 <sub>70</sub>	53.92 <sub>163</sub>
29.7	25.245 <sub>284</sub>	8.71 <sub>139</sub>	2.627 <sub>273</sub>	14.62 <sub>26</sub>	34.635 <sub>406</sub>	37.77 <sub>188</sub>	29.50 <sub>66</sub>	55.55 <sub>197</sub>
März 10.7	25.529 <sub>256</sub>	10.10 <sub>129</sub>	2.900 <sub>244</sub>	14.88 <sub>73</sub>	35.041 <sub>370</sub>	39.65 <sub>203</sub>	30.16 <sub>60</sub>	57.52 <sub>226</sub>
20.6	25.785 <sub>228</sub>	11.39 <sub>119</sub>	3.144 <sub>212</sub>	15.61 <sub>117</sub>	35.411 <sub>330</sub>	41.68 <sub>214</sub>	30.76 <sub>54</sub>	59.78 <sub>249</sub>
30.6	26.013 <sub>197</sub>	12.58 <sub>108</sub>	3.356 <sub>178</sub>	16.78 <sub>155</sub>	35.741 <sub>289</sub>	43.82 <sub>221</sub>	31.30 <sub>47</sub>	62.27 <sub>268</sub>
Apr. 9.6	26.210 <sub>167</sub>	13.66 <sub>95</sub>	3.534 <sub>143</sub>	18.33 <sub>184</sub>	36.030 <sub>244</sub>	46.03 <sub>223</sub>	31.77 <sub>40</sub>	64.95 <sub>279</sub>
19.6	26.377 <sub>136</sub>	14.61 <sub>83</sub>	3.677 <sub>107</sub>	20.17 <sub>206</sub>	36.274 <sub>198</sub>	48.26 <sub>222</sub>	32.17 <sub>31</sub>	67.74 <sub>285</sub>
29.5	26.513 <sub>105</sub>	15.44 <sub>71</sub>	3.784 <sub>73</sub>	22.23 <sub>219</sub>	36.472 <sub>151</sub>	50.48 <sub>216</sub>	32.48 <sub>23</sub>	70.59 <sub>286</sub>
Mai 9.5	26.618 <sub>74</sub>	16.15 <sub>58</sub>	3.857 <sub>38</sub>	24.42 <sub>224</sub>	36.623 <sub>102</sub>	52.64 <sub>207</sub>	32.71 <sub>14</sub>	73.45 <sub>280</sub>
19.5	26.692 <sub>42</sub>	16.73 <sub>47</sub>	3.895 <sub>5</sub>	26.66 <sub>221</sub>	36.725 <sub>52</sub>	54.71 <sub>194</sub>	32.85 <sub>5</sub>	76.25 <sub>269</sub>
29.4	26.734 <sub>10</sub>	17.20 <sub>35</sub>	3.900 <sub>27</sub>	28.87 <sub>211</sub>	36.777 <sub>1</sub>	56.65 <sub>176</sub>	32.90 <sub>3</sub>	78.94 <sub>251</sub>
Juni 8.4	26.744 <sub>22</sub>	17.55 <sub>23</sub>	3.873 <sub>59</sub>	30.98 <sub>196</sub>	36.778 <sub>48</sub>	58.41 <sub>155</sub>	32.87 <sub>13</sub>	81.45 <sub>227</sub>
18.4	26.722 <sub>53</sub>	17.78 <sub>10</sub>	3.814 <sub>87</sub>	32.94 <sub>174</sub>	36.730 <sub>96</sub>	59.96 <sub>129</sub>	32.74 <sub>20</sub>	83.72 <sub>198</sub>
28.4	26.669 <sub>82</sub>	17.88 <sub>3</sub>	3.727 <sub>115</sub>	34.68 <sub>149</sub>	36.634 <sub>142</sub>	61.25 <sub>101</sub>	32.54 <sub>29</sub>	85.70 <sub>164</sub>
Juli 8.3	26.587 <sub>109</sub>	17.85 <sub>16</sub>	3.612 <sub>138</sub>	36.17 <sub>120</sub>	36.492 <sub>183</sub>	62.26 <sub>69</sub>	32.25 <sub>35</sub>	87.34 <sub>123</sub>
18.3	26.478 <sub>132</sub>	17.69 <sub>30</sub>	3.474 <sub>158</sub>	37.37 <sub>88</sub>	36.309 <sub>218</sub>	62.95 <sub>35</sub>	31.90 <sub>41</sub>	88.57 <sub>80</sub>
28.3	26.346 <sub>150</sub>	17.39 <sub>43</sub>	3.316 <sub>174</sub>	38.25 <sub>54</sub>	36.091 <sub>244</sub>	63.30 <sub>1</sub>	31.49 <sub>45</sub>	89.37 <sub>33</sub>
Aug. 7.3	26.196 <sub>162</sub>	16.96 <sub>56</sub>	3.142 <sub>183</sub>	38.79 <sub>18</sub>	35.847 <sub>262</sub>	63.29 <sub>39</sub>	31.04 <sub>48</sub>	89.70 <sub>14</sub>
17.2	26.034 <sub>167</sub>	16.40 <sub>67</sub>	2.959 <sub>187</sub>	38.97 <sub>17</sub>	35.585 <sub>268</sub>	62.90 <sub>74</sub>	30.56 <sub>49</sub>	89.56 <sub>63</sub>
27.2	25.867 <sub>163</sub>	15.73 <sub>76</sub>	2.772 <sub>182</sub>	38.80 <sub>53</sub>	35.317 <sub>261</sub>	62.16 <sub>108</sub>	30.07 <sub>48</sub>	88.93 <sub>111</sub>
Sept. 6.2	25.704 <sub>150</sub>	14.97 <sub>82</sub>	2.590 <sub>170</sub>	38.27 <sub>90</sub>	35.056 <sub>241</sub>	61.08 <sub>140</sub>	29.59 <sub>44</sub>	87.82 <sub>154</sub>
16.1	25.554 <sub>128</sub>	14.15 <sub>85</sub>	2.420 <sub>150</sub>	37.37 <sub>126</sub>	34.815 <sub>208</sub>	59.68 <sub>166</sub>	29.15 <sub>38</sub>	86.28 <sub>194</sub>
26.1	25.426 <sub>96</sub>	13.30 <sub>83</sub>	2.270 <sub>122</sub>	36.11 <sub>159</sub>	34.607 <sub>161</sub>	58.02 <sub>185</sub>	28.77 <sub>31</sub>	84.34 <sub>226</sub>
Okt. 6.1	25.330 <sub>56</sub>	12.47 <sub>77</sub>	2.148 <sub>84</sub>	34.52 <sub>193</sub>	34.446 <sub>103</sub>	56.17 <sub>198</sub>	28.46 <sub>21</sub>	82.08 <sub>250</sub>
16.1	25.274 <sub>8</sub>	11.70 <sub>66</sub>	2.064 <sub>40</sub>	32.59 <sub>222</sub>	34.343 <sub>36</sub>	54.19 <sub>203</sub>	28.25 <sub>10</sub>	79.58 <sub>264</sub>
26.0	25.266 <sub>43</sub>	11.04 <sub>49</sub>	2.024 <sub>8</sub>	30.37 <sub>248</sub>	34.307 <sub>40</sub>	52.16 <sub>198</sub>	28.15 <sub>2</sub>	76.94 <sub>269</sub>
Nov. 5.0	25.309 <sub>98</sub>	10.55 <sub>29</sub>	2.032 <sub>61</sub>	27.89 <sub>269</sub>	34.347 <sub>117</sub>	50.18 <sub>186</sub>	28.17 <sub>14</sub>	74.25 <sub>262</sub>
15.0	25.407 <sub>153</sub>	10.26 <sub>5</sub>	2.093 <sub>114</sub>	25.20 <sub>286</sub>	34.464 <sub>194</sub>	48.32 <sub>164</sub>	28.31 <sub>27</sub>	71.63 <sub>244</sub>
25.0	25.560 <sub>204</sub>	10.21 <sub>20</sub>	2.207 <sub>167</sub>	22.34 <sub>293</sub>	34.658 <sub>267</sub>	46.68 <sub>136</sub>	28.58 <sub>39</sub>	69.19 <sub>219</sub>
Dez. 4.9	25.764 <sub>250</sub>	10.41 <sub>47</sub>	2.374 <sub>214</sub>	19.41 <sub>292</sub>	34.925 <sub>332</sub>	45.32 <sub>102</sub>	28.97 <sub>49</sub>	67.00 <sub>183</sub>
14.9	26.014 <sub>289</sub>	10.88 <sub>73</sub>	2.588 <sub>256</sub>	16.49 <sub>284</sub>	35.257 <sub>387</sub>	44.30 <sub>64</sub>	29.46 <sub>59</sub>	65.17 <sub>141</sub>
24.9	26.303 <sub>317</sub>	11.61 <sub>96</sub>	2.844 <sub>288</sub>	13.65 <sub>265</sub>	35.644 <sub>430</sub>	43.66 <sub>24</sub>	30.05 <sub>65</sub>	63.76 <sub>95</sub>
34.8	26.620	12.57	3.132	11.00	36.074	43.42	30.70	62.81
Mittl. Ort	22.996	6.69	1.046	31.74	31.627	44.77	25.17	67.36
sec $\delta$ , tg $\delta$	1.103	-0.466	1.125	+0.515	1.617	-1.271	2.715	-2.524



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	563) $\delta$ Bootis		564) $\beta$ Librae		565) $\gamma$ H. Ursae min.		566) $\gamma^1$ Lupi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$15^h 12^m$	$+33^\circ 36'$	$15^h 12^m$	$-9^\circ 5'$	$15^h 13^m$	$+67^\circ 38'$	$15^h 16^m$	$-35^\circ 58'$
Jan. 0.9	16.119 <sup>309</sup>	35.99 <sup>262</sup>	42.057 <sup>300</sup>	17.21 <sup>157</sup>	40.10 <sup>52</sup>	46.76 <sup>267</sup>	43.607 <sup>357</sup>	10.88 <sup>51</sup>
10.8	16.428 <sup>332</sup>	33.37 <sup>225</sup>	42.357 <sup>314</sup>	18.78 <sup>158</sup>	40.62 <sup>58</sup>	44.09 <sup>214</sup>	43.964 <sup>375</sup>	11.39 <sup>79</sup>
20.8	16.760 <sup>342</sup>	31.12 <sup>181</sup>	42.671 <sup>319</sup>	20.36 <sup>153</sup>	41.20 <sup>63</sup>	41.95 <sup>154</sup>	44.339 <sup>382</sup>	12.18 <sup>101</sup>
30.8	17.102 <sup>343</sup>	29.31 <sup>130</sup>	42.990 <sup>316</sup>	21.89 <sup>144</sup>	41.83 <sup>63</sup>	40.41 <sup>88</sup>	44.721 <sup>378</sup>	13.19 <sup>120</sup>
Feb. 9.7	17.445 <sup>334</sup>	28.01 <sup>75</sup>	43.306 <sup>305</sup>	23.33 <sup>128</sup>	42.46 <sup>64</sup>	39.53 <sup>19</sup>	45.099 <sup>367</sup>	14.39 <sup>134</sup>
19.7	17.779 <sup>317</sup>	27.26 <sup>19</sup>	43.611 <sup>288</sup>	24.61 <sup>109</sup>	43.10 <sup>61</sup>	39.34 <sup>49</sup>	45.466 <sup>349</sup>	15.73 <sup>145</sup>
29.7	18.096 <sup>294</sup>	27.07 <sup>37</sup>	43.899 <sup>267</sup>	25.70 <sup>88</sup>	43.71 <sup>56</sup>	39.83 <sup>113</sup>	45.815 <sup>326</sup>	17.18 <sup>150</sup>
März 10.7	18.390 <sup>264</sup>	27.44 <sup>90</sup>	44.166 <sup>244</sup>	26.58 <sup>66</sup>	44.27 <sup>50</sup>	40.96 <sup>173</sup>	46.141 <sup>299</sup>	18.68 <sup>152</sup>
20.6	18.654 <sup>230</sup>	28.34 <sup>137</sup>	44.410 <sup>218</sup>	27.24 <sup>43</sup>	44.77 <sup>43</sup>	42.69 <sup>224</sup>	46.440 <sup>269</sup>	20.20 <sup>152</sup>
30.6	18.884 <sup>196</sup>	29.71 <sup>177</sup>	44.628 <sup>191</sup>	27.67 <sup>21</sup>	45.20 <sup>34</sup>	44.93 <sup>266</sup>	46.709 <sup>239</sup>	21.72 <sup>150</sup>
Apr. 9.6	19.080 <sup>157</sup>	31.48 <sup>209</sup>	44.819 <sup>163</sup>	27.88 <sup>3</sup>	45.54 <sup>25</sup>	47.59 <sup>297</sup>	46.948 <sup>205</sup>	23.22 <sup>144</sup>
19.6	19.237 <sup>120</sup>	33.57 <sup>233</sup>	44.982 <sup>135</sup>	27.91 <sup>14</sup>	45.79 <sup>16</sup>	50.56 <sup>317</sup>	47.153 <sup>172</sup>	24.66 <sup>137</sup>
29.5	19.357 <sup>82</sup>	35.90 <sup>246</sup>	45.117 <sup>106</sup>	27.77 <sup>28</sup>	45.95 <sup>5</sup>	53.73 <sup>325</sup>	47.325 <sup>137</sup>	26.03 <sup>130</sup>
Mai 9.5	19.439 <sup>44</sup>	38.36 <sup>252</sup>	45.223 <sup>78</sup>	27.49 <sup>38</sup>	46.00 <sup>3</sup>	56.98 <sup>322</sup>	47.462 <sup>100</sup>	27.33 <sup>120</sup>
19.5	19.483 <sup>7</sup>	40.88 <sup>249</sup>	45.301 <sup>48</sup>	27.11 <sup>47</sup>	45.97 <sup>13</sup>	60.20 <sup>309</sup>	47.562 <sup>64</sup>	28.53 <sup>108</sup>
29.4	19.490 <sup>30</sup>	43.37 <sup>237</sup>	45.349 <sup>18</sup>	26.64 <sup>52</sup>	45.84 <sup>21</sup>	63.29 <sup>286</sup>	47.626 <sup>26</sup>	29.61 <sup>96</sup>
Juni 8.4	19.460 <sup>63</sup>	45.74 <sup>219</sup>	45.367 <sup>11</sup>	26.12 <sup>56</sup>	45.63 <sup>29</sup>	66.15 <sup>256</sup>	47.652 <sup>12</sup>	30.57 <sup>81</sup>
18.4	19.397 <sup>96</sup>	47.93 <sup>196</sup>	45.356 <sup>40</sup>	25.56 <sup>57</sup>	45.34 <sup>36</sup>	68.71 <sup>218</sup>	47.640 <sup>49</sup>	31.38 <sup>64</sup>
28.4	19.301 <sup>126</sup>	49.89 <sup>166</sup>	45.316 <sup>68</sup>	24.99 <sup>58</sup>	44.98 <sup>43</sup>	70.89 <sup>175</sup>	47.591 <sup>85</sup>	32.02 <sup>45</sup>
Juli 8.3	19.175 <sup>152</sup>	51.55 <sup>134</sup>	45.248 <sup>94</sup>	24.41 <sup>58</sup>	44.55 <sup>47</sup>	72.64 <sup>128</sup>	47.506 <sup>118</sup>	32.47 <sup>25</sup>
18.3	19.023 <sup>175</sup>	52.89 <sup>97</sup>	45.154 <sup>117</sup>	23.83 <sup>56</sup>	44.08 <sup>51</sup>	73.92 <sup>77</sup>	47.388 <sup>148</sup>	32.72 <sup>4</sup>
28.3	18.848 <sup>192</sup>	53.86 <sup>60</sup>	45.037 <sup>135</sup>	23.27 <sup>54</sup>	43.57 <sup>53</sup>	74.69 <sup>26</sup>	47.240 <sup>170</sup>	32.76 <sup>18</sup>
Aug. 7.3	18.656 <sup>204</sup>	54.46 <sup>20</sup>	44.902 <sup>149</sup>	22.73 <sup>50</sup>	43.04 <sup>55</sup>	74.95 <sup>28</sup>	47.070 <sup>188</sup>	32.58 <sup>42</sup>
17.2	18.452 <sup>208</sup>	54.66 <sup>21</sup>	44.753 <sup>155</sup>	22.23 <sup>45</sup>	42.49 <sup>55</sup>	74.67 <sup>79</sup>	46.882 <sup>195</sup>	32.16 <sup>62</sup>
27.2	18.244 <sup>206</sup>	54.45 <sup>61</sup>	44.598 <sup>154</sup>	21.78 <sup>40</sup>	41.94 <sup>53</sup>	73.88 <sup>130</sup>	46.687 <sup>194</sup>	31.54 <sup>84</sup>
Sept. 6.2	18.038 <sup>195</sup>	53.84 <sup>101</sup>	44.444 <sup>145</sup>	21.38 <sup>31</sup>	41.41 <sup>51</sup>	72.58 <sup>180</sup>	46.493 <sup>182</sup>	30.70 <sup>101</sup>
16.1	17.843 <sup>174</sup>	52.83 <sup>140</sup>	44.299 <sup>127</sup>	21.07 <sup>21</sup>	40.90 <sup>46</sup>	70.78 <sup>225</sup>	46.311 <sup>159</sup>	29.69 <sup>114</sup>
26.1	17.669 <sup>146</sup>	51.43 <sup>178</sup>	44.172 <sup>100</sup>	20.86 <sup>9</sup>	40.44 <sup>40</sup>	68.53 <sup>266</sup>	46.152 <sup>126</sup>	28.55 <sup>124</sup>
Okt. 6.1	17.523 <sup>107</sup>	49.65 <sup>213</sup>	44.072 <sup>65</sup>	20.77 <sup>8</sup>	40.04 <sup>33</sup>	65.87 <sup>304</sup>	46.026 <sup>83</sup>	27.31 <sup>127</sup>
16.1	17.416 <sup>64</sup>	47.52 <sup>245</sup>	44.007 <sup>23</sup>	20.85 <sup>25</sup>	39.71 <sup>24</sup>	62.83 <sup>334</sup>	45.943 <sup>31</sup>	26.04 <sup>124</sup>
26.0	17.352 <sup>12</sup>	45.07 <sup>271</sup>	43.984 <sup>23</sup>	21.10 <sup>45</sup>	39.47 <sup>15</sup>	59.49 <sup>358</sup>	45.912 <sup>27</sup>	24.80 <sup>114</sup>
Nov. 5.0	17.340 <sup>43</sup>	42.36 <sup>294</sup>	44.007 <sup>74</sup>	21.55 <sup>67</sup>	39.32 <sup>4</sup>	55.91 <sup>373</sup>	45.939 <sup>87</sup>	23.66 <sup>100</sup>
15.0	17.383 <sup>98</sup>	39.42 <sup>309</sup>	44.081 <sup>125</sup>	22.22 <sup>88</sup>	39.28 <sup>7</sup>	52.18 <sup>379</sup>	46.026 <sup>148</sup>	22.66 <sup>78</sup>
25.0	17.481 <sup>154</sup>	36.33 <sup>316</sup>	44.206 <sup>173</sup>	23.10 <sup>110</sup>	39.35 <sup>18</sup>	48.39 <sup>375</sup>	46.174 <sup>206</sup>	21.88 <sup>53</sup>
Dez. 4.9	17.635 <sup>206</sup>	33.17 <sup>314</sup>	44.379 <sup>216</sup>	24.20 <sup>128</sup>	39.53 <sup>29</sup>	44.64 <sup>360</sup>	46.380 <sup>259</sup>	21.35 <sup>25</sup>
14.9	17.841 <sup>252</sup>	30.03 <sup>302</sup>	44.595 <sup>255</sup>	25.48 <sup>143</sup>	39.82 <sup>39</sup>	41.04 <sup>333</sup>	46.639 <sup>303</sup>	21.10 <sup>5</sup>
24.9	18.093 <sup>289</sup>	27.01 <sup>281</sup>	44.850 <sup>283</sup>	26.91 <sup>154</sup>	40.21 <sup>47</sup>	37.71 <sup>297</sup>	46.942 <sup>339</sup>	21.15 <sup>34</sup>
34.8	18.382	24.20	45.133	28.45	40.68	34.74	47.281	21.49
Mittl. Ort sec $\delta$ , tg $\delta$	16.650 1.201	45.12 +0.665	41.972 1.013	19.15 -0.160	42.86 2.630	61.02 +2.432	43.423 1.236	19.86 -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.
1920	15 <sup>h</sup> 20 <sup>m</sup>	+72° 6'	15 <sup>h</sup> 21 <sup>m</sup>	+37° 39'	15 <sup>h</sup> 23 <sup>m</sup>	+59° 14'	15 <sup>h</sup> 24 <sup>m</sup>	+29° 22'
Jan. 0.9	46.85 <sub>60</sub>	53.23 <sub>267</sub>	27.377 <sub>309</sub>	15.97 <sub>271</sub>	7.039 <sub>405</sub>	32.64 <sub>281</sub>	31.339 <sub>294</sub>	43.09 <sub>261</sub>
10.8	47.45 <sub>68</sub>	50.56 <sub>215</sub>	27.686 <sub>336</sub>	13.26 <sub>232</sub>	7.444 <sub>451</sub>	29.83 <sub>231</sub>	31.633 <sub>316</sub>	40.48 <sub>228</sub>
20.8	48.13 <sub>74</sub>	48.41 <sub>154</sub>	28.022 <sub>350</sub>	10.94 <sub>186</sub>	7.895 <sub>480</sub>	27.52 <sub>174</sub>	31.949 <sub>328</sub>	38.20 <sub>188</sub>
30.8	48.87 <sub>77</sub>	46.87 <sub>89</sub>	28.372 <sub>353</sub>	9.08 <sub>133</sub>	8.375 <sub>494</sub>	25.78 <sub>110</sub>	32.277 <sub>331</sub>	36.32 <sub>140</sub>
Feb. 9.8	49.64 <sub>76</sub>	45.98 <sub>20</sub>	28.725 <sub>347</sub>	7.75 <sub>75</sub>	8.869 <sub>491</sub>	24.68 <sub>44</sub>	32.608 <sub>325</sub>	34.92 <sub>89</sub>
19.7	50.40 <sub>74</sub>	45.78 <sub>48</sub>	29.072 <sub>332</sub>	7.00 <sub>16</sub>	9.360 <sub>474</sub>	24.24 <sub>25</sub>	32.933 <sub>310</sub>	34.03 <sub>35</sub>
29.7	51.14 <sub>69</sub>	46.26 <sub>113</sub>	29.404 <sub>309</sub>	6.84 <sub>42</sub>	9.834 <sub>442</sub>	24.49 <sub>87</sub>	33.243 <sub>289</sub>	33.68 <sub>18</sub>
März 10.7	51.83 <sub>62</sub>	47.39 <sub>173</sub>	29.713 <sub>280</sub>	7.26 <sub>97</sub>	10.276 <sub>398</sub>	25.36 <sub>150</sub>	33.532 <sub>264</sub>	33.86 <sub>70</sub>
20.6	52.45 <sub>53</sub>	49.12 <sub>225</sub>	29.993 <sub>246</sub>	8.23 <sub>147</sub>	10.674 <sub>346</sub>	26.86 <sub>203</sub>	33.796 <sub>233</sub>	34.56 <sub>118</sub>
30.6	52.98 <sub>43</sub>	51.37 <sub>267</sub>	30.239 <sub>210</sub>	9.70 <sub>189</sub>	11.020 <sub>285</sub>	28.89 <sub>247</sub>	34.029 <sub>202</sub>	35.74 <sub>157</sub>
Apr. 9.6	53.41 <sub>31</sub>	54.04 <sub>300</sub>	30.449 <sub>170</sub>	11.59 <sub>223</sub>	11.305 <sub>221</sub>	31.36 <sub>282</sub>	34.231 <sub>167</sub>	37.31 <sub>191</sub>
19.6	53.72 <sub>20</sub>	57.04 <sub>319</sub>	30.619 <sub>130</sub>	13.82 <sub>249</sub>	11.526 <sub>152</sub>	34.18 <sub>306</sub>	34.398 <sub>132</sub>	39.22 <sub>216</sub>
29.5	53.92 <sub>7</sub>	60.23 <sub>328</sub>	30.749 <sub>90</sub>	16.31 <sub>263</sub>	11.678 <sub>83</sub>	37.24 <sub>317</sub>	34.530 <sub>97</sub>	41.38 <sub>232</sub>
Mai 9.5	53.99 <sub>5</sub>	63.51 <sub>326</sub>	30.839 <sub>49</sub>	18.94 <sub>269</sub>	11.761 <sub>15</sub>	40.41 <sub>319</sub>	34.627 <sub>61</sub>	43.70 <sub>239</sub>
19.5	53.94 <sub>17</sub>	66.77 <sub>314</sub>	30.888 <sub>9</sub>	21.63 <sub>266</sub>	11.776 <sub>52</sub>	43.60 <sub>311</sub>	34.688 <sub>25</sub>	46.09 <sub>239</sub>
29.5	53.77 <sub>28</sub>	69.91 <sub>291</sub>	30.897 <sub>30</sub>	24.29 <sub>254</sub>	11.724 <sub>115</sub>	46.71 <sub>292</sub>	34.713 <sub>10</sub>	48.48 <sub>231</sub>
Juni 8.4	53.49 <sub>37</sub>	72.82 <sub>260</sub>	30.867 <sub>67</sub>	26.83 <sub>236</sub>	11.609 <sub>174</sub>	49.63 <sub>265</sub>	34.703 <sub>44</sub>	50.79 <sub>216</sub>
18.4	53.12 <sub>46</sub>	75.42 <sub>224</sub>	30.800 <sub>102</sub>	29.19 <sub>210</sub>	11.435 <sub>229</sub>	52.28 <sub>232</sub>	34.659 <sub>77</sub>	52.95 <sub>196</sub>
28.4	52.66 <sub>54</sub>	77.66 <sub>180</sub>	30.698 <sub>135</sub>	31.29 <sub>181</sub>	11.206 <sub>276</sub>	54.60 <sub>192</sub>	34.582 <sub>107</sub>	54.91 <sub>169</sub>
Juli 8.3	52.12 <sub>60</sub>	79.46 <sub>133</sub>	30.563 <sub>164</sub>	33.10 <sub>145</sub>	10.930 <sub>318</sub>	56.52 <sub>148</sub>	34.475 <sub>135</sub>	56.60 <sub>140</sub>
18.3	51.52 <sub>65</sub>	80.79 <sub>82</sub>	30.399 <sub>188</sub>	34.55 <sub>107</sub>	10.612 <sub>351</sub>	58.00 <sub>101</sub>	34.340 <sub>159</sub>	58.00 <sub>108</sub>
28.3	50.87 <sub>69</sub>	81.61 <sub>31</sub>	30.211 <sub>208</sub>	35.62 <sub>66</sub>	10.261 <sub>376</sub>	59.01 <sub>51</sub>	34.181 <sub>179</sub>	59.08 <sub>72</sub>
Aug. 7.3	50.18 <sub>70</sub>	81.92 <sub>23</sub>	30.003 <sub>222</sub>	36.28 <sub>25</sub>	9.885 <sub>391</sub>	59.52 <sub>1</sub>	34.002 <sub>192</sub>	59.80 <sub>35</sub>
17.2	49.48 <sub>71</sub>	81.69 <sub>75</sub>	29.781 <sub>227</sub>	36.53 <sub>18</sub>	9.494 <sub>395</sub>	59.51 <sub>52</sub>	33.810 <sub>200</sub>	60.15 <sub>2</sub>
27.2	48.77 <sub>69</sub>	80.94 <sub>126</sub>	29.554 <sub>226</sub>	36.35 <sub>61</sub>	9.099 <sub>389</sub>	58.99 <sub>102</sub>	33.610 <sub>199</sub>	60.13 <sub>41</sub>
Sept. 6.2	48.08 <sub>65</sub>	79.68 <sub>176</sub>	29.328 <sub>215</sub>	35.74 <sub>104</sub>	8.710 <sub>372</sub>	57.97 <sub>151</sub>	33.411 <sub>190</sub>	59.72 <sub>79</sub>
16.2	47.43 <sub>60</sub>	77.92 <sub>221</sub>	29.113 <sub>196</sub>	34.70 <sub>145</sub>	8.338 <sub>340</sub>	56.46 <sub>198</sub>	33.221 <sub>173</sub>	58.93 <sub>117</sub>
26.1	46.83 <sub>53</sub>	75.71 <sub>263</sub>	28.917 <sub>167</sub>	33.25 <sub>185</sub>	7.998 <sub>298</sub>	54.48 <sub>242</sub>	33.048 <sub>147</sub>	57.76 <sub>153</sub>
Okt. 6.1	46.30 <sub>45</sub>	73.08 <sub>301</sub>	28.750 <sub>129</sub>	31.40 <sub>222</sub>	7.700 <sub>245</sub>	52.06 <sub>280</sub>	32.901 <sub>112</sub>	56.23 <sub>189</sub>
16.1	45.85 <sub>34</sub>	70.07 <sub>331</sub>	28.621 <sub>83</sub>	29.18 <sub>255</sub>	7.455 <sub>179</sub>	49.26 <sub>314</sub>	32.789 <sub>69</sub>	54.34 <sub>220</sub>
26.0	45.51 <sub>22</sub>	66.76 <sub>355</sub>	28.538 <sub>31</sub>	26.63 <sub>282</sub>	7.276 <sub>106</sub>	46.12 <sub>341</sub>	32.720 <sub>21</sub>	52.14 <sub>249</sub>
Nov. 5.0	45.29 <sub>10</sub>	63.21 <sub>371</sub>	28.507 <sub>25</sub>	23.81 <sub>306</sub>	7.170 <sub>25</sub>	42.71 <sub>360</sub>	32.699 <sub>32</sub>	49.65 <sub>272</sub>
15.0	45.19 <sub>4</sub>	59.50 <sub>377</sub>	28.532 <sub>84</sub>	20.75 <sub>321</sub>	7.145 <sub>60</sub>	39.11 <sub>371</sub>	32.731 <sub>87</sub>	46.93 <sub>289</sub>
25.0	45.23 <sub>17</sub>	55.73 <sub>374</sub>	28.616 <sub>143</sub>	17.54 <sub>328</sub>	7.205 <sub>144</sub>	35.40 <sub>371</sub>	32.818 <sub>140</sub>	44.04 <sub>300</sub>
Dez. 4.9	45.40 <sub>30</sub>	51.99 <sub>359</sub>	28.759 <sub>197</sub>	14.26 <sub>326</sub>	7.349 <sub>228</sub>	31.69 <sub>361</sub>	32.958 <sub>191</sub>	41.04 <sub>301</sub>
14.9	45.70 <sub>44</sub>	48.40 <sub>333</sub>	28.956 <sub>246</sub>	11.00 <sub>314</sub>	7.577 <sub>303</sub>	28.08 <sub>339</sub>	33.149 <sub>235</sub>	38.03 <sub>294</sub>
24.9	46.14 <sub>54</sub>	45.07 <sub>297</sub>	29.202 <sub>288</sub>	7.86 <sub>291</sub>	7.880 <sub>371</sub>	24.69 <sub>307</sub>	33.384 <sub>274</sub>	35.09 <sub>277</sub>
34.9	46.68	42.10	29.490	4.95	8.251	21.62	33.658	32.32
Mittl. Ort	50.62	67.16	28.071	25.29	8.873	45.23	31.830	50.47
sec $\delta$ , tg $\delta$	3.257	+3.100	1.263	+0.772	1.956	+1.681	1.148	+0.563

Mittlere Zeit Greenw.	573) $\nu$ Bootis		575) $\gamma$ Lupi		577) $\gamma$ Librae		578) $\alpha$ Coron. bor.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	15 <sup>h</sup> 28 <sup>m</sup>	+41° 5'	15 <sup>h</sup> 29 <sup>m</sup>	-40° 53'	15 <sup>h</sup> 31 <sup>m</sup>	-14° 31'	15 <sup>h</sup> 31 <sup>m</sup>	+26° 58'
Jan. 0.9	2.479 <sub>313</sub>	68.82 <sub>278</sub>	48.250 <sub>371</sub>	46.17 <sub>19</sub>	2.928 <sub>297</sub>	21.31 <sub>128</sub>	17.547 <sub>287</sub>	52.75 <sub>259</sub>
10.8	2.792 <sub>342</sub>	66.04 <sub>239</sub>	48.621 <sub>392</sub>	46.36 <sub>49</sub>	3.225 <sub>315</sub>	22.59 <sub>135</sub>	17.834 <sub>309</sub>	50.16 <sub>228</sub>
20.8	3.134 <sub>359</sub>	63.65 <sub>190</sub>	49.013 <sub>402</sub>	46.85 <sub>75</sub>	3.540 <sub>322</sub>	23.94 <sub>136</sub>	18.143 <sub>322</sub>	47.88 <sub>191</sub>
30.8	3.493 <sub>365</sub>	61.75 <sub>136</sub>	49.415 <sub>402</sub>	47.60 <sub>99</sub>	3.862 <sub>322</sub>	25.30 <sub>131</sub>	18.465 <sub>326</sub>	45.97 <sub>146</sub>
Feb. 9.8	3.858 <sub>361</sub>	60.39 <sub>76</sub>	49.817 <sub>393</sub>	48.59 <sub>119</sub>	4.184 <sub>314</sub>	26.61 <sub>123</sub>	18.791 <sub>320</sub>	44.51 <sub>96</sub>
19.7	4.219 <sub>347</sub>	59.63 <sub>15</sub>	50.210 <sub>377</sub>	49.78 <sub>134</sub>	4.498 <sub>301</sub>	27.84 <sub>110</sub>	19.111 <sub>308</sub>	43.55 <sub>45</sub>
29.7	4.566 <sub>325</sub>	59.48 <sub>45</sub>	50.587 <sub>355</sub>	51.12 <sub>146</sub>	4.799 <sub>283</sub>	28.94 <sub>94</sub>	19.419 <sub>288</sub>	43.10 <sub>9</sub>
März 10.7	4.891 <sub>295</sub>	59.93 <sub>102</sub>	50.942 <sub>329</sub>	52.58 <sub>153</sub>	5.082 <sub>261</sub>	29.88 <sub>77</sub>	19.707 <sub>265</sub>	43.19 <sub>59</sub>
20.7	5.186 <sub>261</sub>	60.95 <sub>154</sub>	51.271 <sub>300</sub>	54.11 <sub>159</sub>	5.343 <sub>237</sub>	30.65 <sub>59</sub>	19.972 <sub>236</sub>	43.78 <sub>105</sub>
30.6	5.447 <sub>223</sub>	62.49 <sub>198</sub>	51.571 <sub>268</sub>	55.70 <sub>160</sub>	5.580 <sub>212</sub>	31.24 <sub>42</sub>	20.208 <sub>206</sub>	44.83 <sub>146</sub>
Apr. 9.6	5.670 <sub>182</sub>	64.47 <sub>233</sub>	51.839 <sub>234</sub>	57.30 <sub>159</sub>	5.792 <sub>185</sub>	31.66 <sub>26</sub>	20.414 <sub>173</sub>	46.29 <sub>180</sub>
19.6	5.852 <sub>140</sub>	66.80 <sub>259</sub>	52.073 <sub>198</sub>	58.89 <sub>156</sub>	5.977 <sub>157</sub>	31.92 <sub>11</sub>	20.587 <sub>140</sub>	48.09 <sub>205</sub>
29.5	5.992 <sub>97</sub>	69.39 <sub>275</sub>	52.271 <sub>162</sub>	60.45 <sub>152</sub>	6.134 <sub>129</sub>	32.03 <sub>1</sub>	20.727 <sub>105</sub>	50.14 <sub>221</sub>
Mai 9.5	6.089 <sub>53</sub>	72.14 <sub>281</sub>	52.433 <sub>122</sub>	61.97 <sub>144</sub>	6.263 <sub>100</sub>	32.02 <sub>10</sub>	20.832 <sub>71</sub>	52.35 <sub>231</sub>
19.5	6.142 <sub>11</sub>	74.95 <sub>279</sub>	52.555 <sub>82</sub>	63.41 <sub>135</sub>	6.363 <sub>68</sub>	31.92 <sub>19</sub>	20.903 <sub>35</sub>	54.66 <sub>232</sub>
29.5	6.153 <sub>32</sub>	77.74 <sub>267</sub>	52.637 <sub>40</sub>	64.76 <sub>123</sub>	6.431 <sub>37</sub>	31.73 <sub>25</sub>	20.938 <sub>1</sub>	56.98 <sub>225</sub>
Juni 8.4	6.121 <sub>71</sub>	80.41 <sub>247</sub>	52.677 <sub>2</sub>	65.99 <sub>108</sub>	6.468 <sub>6</sub>	31.48 <sub>31</sub>	20.939 <sub>33</sub>	59.23 <sub>212</sub>
18.4	6.050 <sub>109</sub>	82.88 <sub>221</sub>	52.675 <sub>43</sub>	67.07 <sub>91</sub>	6.474 <sub>26</sub>	31.17 <sub>34</sub>	20.906 <sub>66</sub>	61.35 <sub>194</sub>
28.4	5.941 <sub>144</sub>	85.09 <sub>190</sub>	52.632 <sub>84</sub>	67.98 <sub>71</sub>	6.448 <sub>57</sub>	30.83 <sub>38</sub>	20.840 <sub>97</sub>	63.29 <sub>169</sub>
Juli 8.4	5.797 <sub>175</sub>	86.99 <sub>153</sub>	52.548 <sub>122</sub>	68.69 <sub>49</sub>	6.391 <sub>86</sub>	30.45 <sub>40</sub>	20.743 <sub>125</sub>	64.98 <sub>142</sub>
18.3	5.622 <sub>202</sub>	88.52 <sub>114</sub>	52.426 <sub>155</sub>	69.18 <sub>26</sub>	6.305 <sub>112</sub>	30.05 <sub>43</sub>	20.618 <sub>150</sub>	66.40 <sub>110</sub>
28.3	5.420 <sub>223</sub>	89.66 <sub>71</sub>	52.271 <sub>183</sub>	69.44 <sub>1</sub>	6.193 <sub>135</sub>	29.62 <sub>45</sub>	20.468 <sub>170</sub>	67.50 <sub>78</sub>
Aug. 7.3	5.197 <sub>238</sub>	90.37 <sub>28</sub>	52.088 <sub>203</sub>	69.43 <sub>27</sub>	6.058 <sub>150</sub>	29.17 <sub>47</sub>	20.298 <sub>186</sub>	68.28 <sub>42</sub>
17.2	4.959 <sub>245</sub>	90.65 <sub>17</sub>	51.885 <sub>214</sub>	69.16 <sub>53</sub>	5.908 <sub>161</sub>	28.70 <sub>46</sub>	20.112 <sub>194</sub>	68.70 <sub>6</sub>
27.2	4.714 <sub>244</sub>	90.48 <sub>62</sub>	51.671 <sub>215</sub>	68.63 <sub>79</sub>	5.747 <sub>163</sub>	28.24 <sub>46</sub>	19.918 <sub>195</sub>	68.76 <sub>31</sub>
Sept. 6.2	4.470 <sub>234</sub>	89.86 <sub>107</sub>	51.456 <sub>204</sub>	67.84 <sub>102</sub>	5.584 <sub>156</sub>	27.78 <sub>44</sub>	19.723 <sub>187</sub>	68.45 <sub>69</sub>
16.2	4.236 <sub>214</sub>	88.79 <sub>149</sub>	51.252 <sub>183</sub>	66.82 <sub>120</sub>	5.428 <sub>139</sub>	27.34 <sub>39</sub>	19.536 <sub>172</sub>	67.76 <sub>104</sub>
26.1	4.022 <sub>186</sub>	87.30 <sub>191</sub>	51.069 <sub>148</sub>	65.62 <sub>135</sub>	5.289 <sub>115</sub>	26.95 <sub>31</sub>	19.364 <sub>146</sub>	66.72 <sub>141</sub>
Okt. 6.1	3.836 <sub>147</sub>	85.39 <sub>229</sub>	50.921 <sub>104</sub>	64.27 <sub>144</sub>	5.174 <sub>81</sub>	26.64 <sub>20</sub>	19.218 <sub>113</sub>	65.31 <sub>175</sub>
16.1	3.689 <sub>100</sub>	83.10 <sub>263</sub>	50.817 <sub>50</sub>	62.83 <sub>146</sub>	5.093 <sub>39</sub>	26.44 <sub>7</sub>	19.105 <sub>71</sub>	63.56 <sub>207</sub>
26.1	3.589 <sub>46</sub>	80.47 <sub>292</sub>	50.767 <sub>10</sub>	61.37 <sub>142</sub>	5.054 <sub>8</sub>	26.37 <sub>10</sub>	19.034 <sub>25</sub>	61.49 <sub>236</sub>
Nov. 5.0	3.543 <sub>11</sub>	77.55 <sub>315</sub>	50.777 <sub>74</sub>	59.95 <sub>130</sub>	5.062 <sub>59</sub>	26.47 <sub>29</sub>	19.009 <sub>28</sub>	59.13 <sub>260</sub>
15.0	3.554 <sub>74</sub>	74.40 <sub>332</sub>	50.851 <sub>140</sub>	58.65 <sub>112</sub>	5.121 <sub>111</sub>	26.76 <sub>50</sub>	19.037 <sub>81</sub>	56.53 <sub>279</sub>
25.0	3.628 <sub>133</sub>	71.08 <sub>338</sub>	50.991 <sub>202</sub>	57.53 <sub>89</sub>	5.232 <sub>161</sub>	27.26 <sub>70</sub>	19.118 <sub>134</sub>	53.74 <sub>290</sub>
Dez. 4.9	3.761 <sub>192</sub>	67.70 <sub>336</sub>	51.193 <sub>260</sub>	56.64 <sub>61</sub>	5.393 <sub>207</sub>	27.96 <sub>90</sub>	19.252 <sub>185</sub>	50.84 <sub>294</sub>
14.9	3.953 <sub>245</sub>	64.34 <sub>322</sub>	51.453 <sub>309</sub>	56.03 <sub>31</sub>	5.600 <sub>248</sub>	28.86 <sub>109</sub>	19.437 <sub>228</sub>	47.90 <sub>288</sub>
24.9	4.198 <sub>289</sub>	61.12 <sub>299</sub>	51.762 <sub>348</sub>	55.72 <sub>0</sub>	5.848 <sub>279</sub>	29.95 <sub>122</sub>	19.665 <sub>266</sub>	45.02 <sub>274</sub>
34.9	4.487	58.13	52.110	55.72	6.127	31.17	19.931	42.28
Mittl. Ort sec $\delta$ , tg $\delta$	3.323 1.327	78.30 +0.873	48.146 1.323	56.23 -0.866	2.890 1.033	25.13 -0.259	18.016 1.122	59.18 +0.509

Mittlere Zeit Greenw.	582) $\alpha$ Serpentinis		583) $\beta$ Serpentinis		584) $\gamma$ Serpentinis		585) $\mu$ Serpentinis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$15^{\text{h}} 40^{\text{m}}$	$+6^{\circ} 40'$	$15^{\text{h}} 42^{\text{m}}$	$+15^{\circ} 40'$	$15^{\text{h}} 45^{\text{m}}$	$+18^{\circ} 23'$	$15^{\text{h}} 45^{\text{m}}$	$-3^{\circ} 11'$
Jan. 0.9	19.385 <sup>274</sup>	33.85 <sup>204</sup>	29.372 <sup>272</sup>	13.32 <sup>233</sup>	7.92I <sup>271</sup>	12.04 <sup>240</sup>	26.485 <sup>276</sup>	9.64 <sup>167</sup>
10.8	19.659 <sup>294</sup>	31.81 <sup>191</sup>	29.644 <sup>293</sup>	10.99 <sup>212</sup>	8.192 <sup>293</sup>	9.64 <sup>219</sup>	26.761 <sup>295</sup>	11.31 <sup>163</sup>
20.8	19.953 <sup>304</sup>	29.90 <sup>172</sup>	29.937 <sup>306</sup>	8.87 <sup>185</sup>	8.485 <sup>307</sup>	7.45 <sup>189</sup>	27.056 <sup>306</sup>	12.94 <sup>153</sup>
30.8	20.257 <sup>307</sup>	28.18 <sup>146</sup>	30.243 <sup>310</sup>	7.02 <sup>151</sup>	8.792 <sup>311</sup>	5.56 <sup>152</sup>	27.362 <sup>309</sup>	14.47 <sup>138</sup>
Feb. 9.8	20.564 <sup>301</sup>	26.72 <sup>114</sup>	30.553 <sup>306</sup>	5.51 <sup>110</sup>	9.103 <sup>308</sup>	4.04 <sup>110</sup>	27.671 <sup>303</sup>	15.85 <sup>116</sup>
19.7	20.865 <sup>291</sup>	25.58 <sup>80</sup>	30.859 <sup>295</sup>	4.41 <sup>67</sup>	9.411 <sup>298</sup>	2.94 <sup>64</sup>	27.974 <sup>293</sup>	17.01 <sup>92</sup>
29.7	21.156 <sup>274</sup>	24.78 <sup>43</sup>	31.154 <sup>279</sup>	3.74 <sup>23</sup>	9.709 <sup>281</sup>	2.30 <sup>18</sup>	28.267 <sup>278</sup>	17.93 <sup>65</sup>
März 10.7	21.430 <sup>254</sup>	24.35 <sup>7</sup>	31.433 <sup>257</sup>	3.51 <sup>20</sup>	9.990 <sup>262</sup>	2.12 <sup>28</sup>	28.545 <sup>258</sup>	18.58 <sup>37</sup>
20.7	21.684 <sup>230</sup>	24.28 <sup>28</sup>	31.690 <sup>235</sup>	3.71 <sup>61</sup>	10.252 <sup>237</sup>	2.40 <sup>70</sup>	28.803 <sup>237</sup>	18.95 <sup>10</sup>
30.6	21.914 <sup>206</sup>	24.56 <sup>59</sup>	31.925 <sup>208</sup>	4.32 <sup>98</sup>	10.489 <sup>211</sup>	3.10 <sup>109</sup>	29.040 <sup>213</sup>	19.05 <sup>15</sup>
Apr. 9.6	22.120 <sup>179</sup>	25.15 <sup>86</sup>	32.133 <sup>180</sup>	5.30 <sup>129</sup>	10.700 <sup>183</sup>	4.19 <sup>141</sup>	29.253 <sup>187</sup>	18.90 <sup>38</sup>
19.6	22.299 <sup>152</sup>	26.01 <sup>108</sup>	32.313 <sup>151</sup>	6.59 <sup>153</sup>	10.883 <sup>153</sup>	5.60 <sup>166</sup>	29.440 <sup>161</sup>	18.52 <sup>56</sup>
29.5	22.451 <sup>123</sup>	27.09 <sup>125</sup>	32.464 <sup>121</sup>	8.12 <sup>171</sup>	11.036 <sup>122</sup>	7.26 <sup>185</sup>	29.601 <sup>134</sup>	17.96 <sup>71</sup>
Mai 9.5	22.574 <sup>94</sup>	28.34 <sup>135</sup>	32.585 <sup>89</sup>	9.83 <sup>182</sup>	11.158 <sup>90</sup>	9.11 <sup>195</sup>	29.735 <sup>104</sup>	17.25 <sup>81</sup>
19.5	22.668 <sup>63</sup>	29.69 <sup>140</sup>	32.674 <sup>58</sup>	11.65 <sup>187</sup>	11.248 <sup>57</sup>	11.06 <sup>200</sup>	29.839 <sup>75</sup>	16.44 <sup>88</sup>
29.5	22.731 <sup>32</sup>	31.09 <sup>141</sup>	32.732 <sup>25</sup>	13.52 <sup>184</sup>	11.305 <sup>25</sup>	13.06 <sup>197</sup>	29.914 <sup>44</sup>	15.56 <sup>90</sup>
Juni 8.4	22.763 <sup>1</sup>	32.50 <sup>138</sup>	32.757 <sup>6</sup>	15.36 <sup>176</sup>	11.330 <sup>8</sup>	15.03 <sup>188</sup>	29.958 <sup>12</sup>	14.66 <sup>91</sup>
18.4	22.764 <sup>30</sup>	33.88 <sup>129</sup>	32.751 <sup>39</sup>	17.12 <sup>164</sup>	11.322 <sup>41</sup>	16.91 <sup>175</sup>	29.970 <sup>20</sup>	13.75 <sup>89</sup>
28.4	22.734 <sup>59</sup>	35.17 <sup>118</sup>	32.712 <sup>69</sup>	18.76 <sup>148</sup>	11.281 <sup>72</sup>	18.66 <sup>157</sup>	29.950 <sup>50</sup>	12.86 <sup>83</sup>
Juli 8.4	22.675 <sup>89</sup>	36.35 <sup>105</sup>	32.643 <sup>98</sup>	20.24 <sup>128</sup>	11.209 <sup>101</sup>	20.23 <sup>134</sup>	29.900 <sup>80</sup>	12.03 <sup>77</sup>
18.3	22.586 <sup>114</sup>	37.40 <sup>89</sup>	32.545 <sup>124</sup>	21.52 <sup>104</sup>	11.108 <sup>127</sup>	21.57 <sup>111</sup>	29.820 <sup>106</sup>	11.26 <sup>69</sup>
28.3	22.472 <sup>135</sup>	38.29 <sup>71</sup>	32.421 <sup>146</sup>	22.56 <sup>80</sup>	10.981 <sup>151</sup>	22.68 <sup>83</sup>	29.714 <sup>130</sup>	10.57 <sup>60</sup>
Aug. 7.3	22.337 <sup>152</sup>	39.00 <sup>53</sup>	32.275 <sup>162</sup>	23.36 <sup>54</sup>	10.830 <sup>167</sup>	23.51 <sup>55</sup>	29.584 <sup>147</sup>	9.97 <sup>51</sup>
17.2	22.185 <sup>163</sup>	39.53 <sup>33</sup>	32.113 <sup>174</sup>	23.90 <sup>26</sup>	10.663 <sup>178</sup>	24.06 <sup>25</sup>	29.437 <sup>160</sup>	9.46 <sup>39</sup>
27.2	22.022 <sup>166</sup>	39.86 <sup>12</sup>	31.939 <sup>176</sup>	24.16 <sup>3</sup>	10.485 <sup>182</sup>	24.31 <sup>6</sup>	29.277 <sup>163</sup>	9.07 <sup>28</sup>
Sept. 6.2	21.856 <sup>161</sup>	39.98 <sup>10</sup>	31.763 <sup>172</sup>	24.13 <sup>32</sup>	10.303 <sup>177</sup>	24.25 <sup>38</sup>	29.114 <sup>159</sup>	8.79 <sup>15</sup>
16.2	21.695 <sup>147</sup>	39.88 <sup>34</sup>	31.591 <sup>158</sup>	23.81 <sup>62</sup>	10.126 <sup>164</sup>	23.87 <sup>69</sup>	28.955 <sup>146</sup>	8.64 <sup>0</sup>
26.1	21.548 <sup>125</sup>	39.54 <sup>57</sup>	31.433 <sup>136</sup>	23.19 <sup>92</sup>	9.962 <sup>142</sup>	23.18 <sup>101</sup>	28.809 <sup>124</sup>	8.64 <sup>17</sup>
Okt. 6.1	21.423 <sup>95</sup>	38.97 <sup>81</sup>	31.297 <sup>105</sup>	22.27 <sup>122</sup>	9.820 <sup>111</sup>	22.17 <sup>133</sup>	28.685 <sup>94</sup>	8.81 <sup>34</sup>
16.1	21.328 <sup>55</sup>	38.16 <sup>107</sup>	31.192 <sup>66</sup>	21.05 <sup>150</sup>	9.709 <sup>72</sup>	20.84 <sup>162</sup>	28.591 <sup>55</sup>	9.15 <sup>54</sup>
26.1	21.273 <sup>12</sup>	37.09 <sup>130</sup>	31.126 <sup>22</sup>	19.55 <sup>178</sup>	9.637 <sup>28</sup>	19.22 <sup>190</sup>	28.536 <sup>11</sup>	9.69 <sup>75</sup>
Nov. 5.0	21.261 <sup>37</sup>	35.79 <sup>154</sup>	31.104 <sup>27</sup>	17.77 <sup>201</sup>	9.609 <sup>22</sup>	17.32 <sup>215</sup>	28.525 <sup>38</sup>	10.44 <sup>95</sup>
15.0	21.298 <sup>86</sup>	34.25 <sup>174</sup>	31.131 <sup>77</sup>	15.76 <sup>223</sup>	9.631 <sup>72</sup>	15.17 <sup>235</sup>	28.563 <sup>88</sup>	11.39 <sup>115</sup>
25.0	21.384 <sup>136</sup>	32.51 <sup>191</sup>	31.208 <sup>128</sup>	13.53 <sup>237</sup>	9.703 <sup>124</sup>	12.82 <sup>250</sup>	28.651 <sup>138</sup>	12.54 <sup>134</sup>
Dez. 4.9	21.520 <sup>181</sup>	30.60 <sup>203</sup>	31.336 <sup>175</sup>	11.16 <sup>247</sup>	9.827 <sup>171</sup>	10.32 <sup>259</sup>	28.789 <sup>183</sup>	13.88 <sup>150</sup>
14.9	21.701 <sup>222</sup>	28.57 <sup>210</sup>	31.511 <sup>218</sup>	8.69 <sup>248</sup>	9.998 <sup>214</sup>	7.73 <sup>259</sup>	28.972 <sup>223</sup>	15.38 <sup>161</sup>
24.9	21.923 <sup>255</sup>	26.47 <sup>209</sup>	31.729 <sup>252</sup>	6.21 <sup>242</sup>	10.212 <sup>251</sup>	5.14 <sup>251</sup>	29.195 <sup>257</sup>	16.99 <sup>167</sup>
34.9	22.178	24.38	31.981	3.79	10.463	2.63	29.452	18.66
Mittl. Ort	19.567	35.07	29.683	16.55	8.286	15.75	26.589	11.00
sec $\delta$ , tg $\delta$	1.007	+0.117	1.039	+0.281	1.054	+0.333	1.001	-0.056

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	588) ε Serpentis		590) ζ Ursae min.		589) β Triang. austr.		593) ε Coron. bor.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	15 <sup>h</sup> 46 <sup>m</sup>	+4° 42'	15 <sup>h</sup> 46 <sup>m</sup>	+78° 2'	15 <sup>h</sup> 48 <sup>m</sup>	-63° 10'	15 <sup>h</sup> 54 <sup>m</sup>	+27° 6'
Jan. 0.9	49.414 <sup>270</sup>	62.82 <sup>197</sup>	46.42 <sup>75</sup>	16.83 <sup>281</sup>	4.49 <sup>54</sup>	53.10 <sup>93</sup>	15.905 <sup>268</sup>	26.27 <sup>265</sup>
10.9	49.684 <sup>291</sup>	60.85 <sup>185</sup>	47.17 <sup>88</sup>	14.02 <sup>234</sup>	5.03 <sup>60</sup>	52.17 <sup>50</sup>	16.173 <sup>296</sup>	23.62 <sup>238</sup>
20.8	49.975 <sup>302</sup>	59.00 <sup>168</sup>	48.05 <sup>100</sup>	11.68 <sup>176</sup>	5.63 <sup>62</sup>	51.67 <sup>7</sup>	16.469 <sup>312</sup>	21.24 <sup>201</sup>
30.8	50.277 <sup>306</sup>	57.32 <sup>144</sup>	49.05 <sup>107</sup>	9.92 <sup>114</sup>	6.25 <sup>63</sup>	51.60 <sup>35</sup>	16.781 <sup>321</sup>	19.23 <sup>158</sup>
Feb. 9.8	50.583 <sup>302</sup>	55.88 <sup>116</sup>	50.12 <sup>109</sup>	8.78 <sup>46</sup>	6.88 <sup>63</sup>	51.95 <sup>75</sup>	17.102 <sup>320</sup>	17.65 <sup>109</sup>
19.7	50.885 <sup>291</sup>	54.72 <sup>82</sup>	51.21 <sup>109</sup>	8.32 <sup>21</sup>	7.51 <sup>61</sup>	52.70 <sup>112</sup>	17.422 <sup>312</sup>	16.56 <sup>56</sup>
29.7	51.176 <sup>276</sup>	53.90 <sup>48</sup>	52.30 <sup>104</sup>	8.53 <sup>88</sup>	8.12 <sup>58</sup>	53.82 <sup>145</sup>	17.734 <sup>296</sup>	16.00 <sup>4</sup>
März 10.7	51.452 <sup>258</sup>	53.42 <sup>13</sup>	53.34 <sup>95</sup>	9.41 <sup>150</sup>	8.70 <sup>55</sup>	55.27 <sup>173</sup>	18.030 <sup>277</sup>	15.96 <sup>48</sup>
20.7	51.710 <sup>235</sup>	53.29 <sup>11</sup>	54.29 <sup>84</sup>	10.91 <sup>205</sup>	9.25 <sup>50</sup>	57.00 <sup>198</sup>	18.307 <sup>253</sup>	16.44 <sup>97</sup>
30.6	51.945 <sup>211</sup>	53.50 <sup>21</sup>	55.13 <sup>70</sup>	12.96 <sup>251</sup>	9.75 <sup>46</sup>	58.98 <sup>217</sup>	18.560 <sup>224</sup>	17.41 <sup>140</sup>
Apr. 9.6	52.156 <sup>185</sup>	54.01 <sup>77</sup>	55.83 <sup>53</sup>	15.47 <sup>287</sup>	10.21 <sup>40</sup>	61.15 <sup>232</sup>	18.784 <sup>195</sup>	18.81 <sup>176</sup>
19.6	52.341 <sup>158</sup>	54.78 <sup>99</sup>	56.36 <sup>36</sup>	18.34 <sup>312</sup>	10.61 <sup>34</sup>	63.47 <sup>244</sup>	18.979 <sup>162</sup>	20.57 <sup>205</sup>
29.6	52.499 <sup>130</sup>	55.77 <sup>115</sup>	56.72 <sup>18</sup>	21.46 <sup>326</sup>	10.95 <sup>28</sup>	65.91 <sup>249</sup>	19.141 <sup>128</sup>	22.62 <sup>224</sup>
Mai 9.5	52.629 <sup>101</sup>	56.92 <sup>126</sup>	56.90 <sup>0</sup>	24.72 <sup>329</sup>	11.23 <sup>21</sup>	68.40 <sup>251</sup>	19.269 <sup>94</sup>	24.86 <sup>236</sup>
19.5	52.730 <sup>71</sup>	58.18 <sup>132</sup>	56.90 <sup>19</sup>	28.01 <sup>321</sup>	11.44 <sup>13</sup>	70.91 <sup>245</sup>	19.363 <sup>59</sup>	27.22 <sup>240</sup>
29.5	52.801 <sup>39</sup>	59.50 <sup>134</sup>	56.71 <sup>36</sup>	31.22 <sup>304</sup>	11.57 <sup>6</sup>	73.36 <sup>236</sup>	19.422 <sup>22</sup>	29.62 <sup>236</sup>
Juni 8.4	52.840 <sup>8</sup>	60.84 <sup>130</sup>	56.35 <sup>51</sup>	34.26 <sup>277</sup>	11.63 <sup>1</sup>	75.72 <sup>220</sup>	19.444 <sup>14</sup>	31.98 <sup>225</sup>
18.4	52.848 <sup>23</sup>	62.14 <sup>123</sup>	55.84 <sup>66</sup>	37.03 <sup>244</sup>	11.62 <sup>9</sup>	77.92 <sup>199</sup>	19.430 <sup>49</sup>	34.23 <sup>208</sup>
28.4	52.825 <sup>54</sup>	63.37 <sup>114</sup>	55.18 <sup>79</sup>	39.47 <sup>204</sup>	11.53 <sup>16</sup>	79.91 <sup>173</sup>	19.381 <sup>83</sup>	36.31 <sup>185</sup>
Juli 8.4	52.771 <sup>84</sup>	64.51 <sup>101</sup>	54.39 <sup>90</sup>	41.51 <sup>159</sup>	11.37 <sup>23</sup>	81.64 <sup>141</sup>	19.298 <sup>114</sup>	38.16 <sup>159</sup>
18.3	52.687 <sup>110</sup>	65.52 <sup>87</sup>	53.49 <sup>99</sup>	43.10 <sup>111</sup>	11.14 <sup>29</sup>	83.05 <sup>104</sup>	19.184 <sup>143</sup>	39.75 <sup>128</sup>
28.3	52.577 <sup>132</sup>	66.39 <sup>72</sup>	52.50 <sup>105</sup>	44.21 <sup>61</sup>	10.85 <sup>34</sup>	84.09 <sup>65</sup>	19.041 <sup>167</sup>	41.03 <sup>96</sup>
Aug. 7.3	52.445 <sup>150</sup>	67.11 <sup>54</sup>	51.45 <sup>109</sup>	44.82 <sup>8</sup>	10.51 <sup>37</sup>	84.74 <sup>22</sup>	18.874 <sup>186</sup>	41.99 <sup>60</sup>
17.3	52.295 <sup>162</sup>	67.65 <sup>36</sup>	50.36 <sup>110</sup>	44.90 <sup>44</sup>	10.14 <sup>39</sup>	84.96 <sup>22</sup>	18.688 <sup>199</sup>	42.59 <sup>24</sup>
27.2	52.133 <sup>167</sup>	68.01 <sup>17</sup>	49.26 <sup>109</sup>	44.46 <sup>95</sup>	9.75 <sup>40</sup>	84.74 <sup>66</sup>	18.489 <sup>203</sup>	42.83 <sup>14</sup>
Sept. 6.2	51.966 <sup>162</sup>	68.18 <sup>4</sup>	48.17 <sup>106</sup>	43.51 <sup>145</sup>	9.35 <sup>38</sup>	84.08 <sup>109</sup>	18.286 <sup>199</sup>	42.69 <sup>51</sup>
16.2	51.804 <sup>150</sup>	68.14 <sup>25</sup>	47.11 <sup>100</sup>	42.06 <sup>193</sup>	8.97 <sup>36</sup>	82.99 <sup>150</sup>	18.087 <sup>187</sup>	42.18 <sup>89</sup>
26.1	51.654 <sup>128</sup>	67.89 <sup>48</sup>	46.11 <sup>90</sup>	40.13 <sup>237</sup>	8.61 <sup>30</sup>	81.49 <sup>183</sup>	17.900 <sup>165</sup>	41.29 <sup>126</sup>
Okt. 6.1	51.526 <sup>98</sup>	67.41 <sup>71</sup>	45.21 <sup>80</sup>	37.76 <sup>276</sup>	8.31 <sup>23</sup>	79.66 <sup>211</sup>	17.735 <sup>133</sup>	40.03 <sup>162</sup>
16.1	51.428 <sup>60</sup>	66.70 <sup>94</sup>	44.41 <sup>65</sup>	35.00 <sup>310</sup>	8.08 <sup>14</sup>	77.55 <sup>231</sup>	17.602 <sup>95</sup>	38.41 <sup>195</sup>
26.1	51.368 <sup>16</sup>	65.76 <sup>118</sup>	43.76 <sup>50</sup>	31.90 <sup>338</sup>	7.94 <sup>5</sup>	75.24 <sup>241</sup>	17.507 <sup>50</sup>	36.46 <sup>226</sup>
Nov. 5.0	51.352 <sup>31</sup>	64.58 <sup>141</sup>	43.26 <sup>31</sup>	28.52 <sup>358</sup>	7.89 <sup>5</sup>	72.83 <sup>243</sup>	17.457 <sup>2</sup>	34.20 <sup>252</sup>
15.0	51.383 <sup>82</sup>	63.17 <sup>161</sup>	42.95 <sup>13</sup>	24.94 <sup>369</sup>	7.94 <sup>16</sup>	70.40 <sup>233</sup>	17.459 <sup>55</sup>	31.68 <sup>273</sup>
25.0	51.465 <sup>130</sup>	61.56 <sup>179</sup>	42.82 <sup>8</sup>	21.25 <sup>370</sup>	8.10 <sup>26</sup>	68.07 <sup>216</sup>	17.514 <sup>108</sup>	28.95 <sup>287</sup>
Dez. 5.0	51.595 <sup>177</sup>	59.77 <sup>191</sup>	42.90 <sup>28</sup>	17.55 <sup>361</sup>	8.36 <sup>35</sup>	65.91 <sup>189</sup>	17.622 <sup>160</sup>	26.08 <sup>293</sup>
14.9	51.772 <sup>218</sup>	57.86 <sup>200</sup>	43.18 <sup>47</sup>	13.94 <sup>340</sup>	8.71 <sup>44</sup>	64.02 <sup>156</sup>	17.782 <sup>206</sup>	23.15 <sup>291</sup>
24.9	51.990 <sup>251</sup>	55.86 <sup>200</sup>	43.65 <sup>65</sup>	10.54 <sup>308</sup>	9.15 <sup>50</sup>	62.46 <sup>117</sup>	17.988 <sup>246</sup>	20.24 <sup>279</sup>
34.9	52.241	53.86	44.30	7.46	9.65	61.29	18.234	17.45
Mittl. Ort sec δ, tg δ	49.600 1.003	63.29 +0.082	52.97 4.826	28.51 +4.721	4.80 2.217	66.70 -1.978	16.474 1.123	31.24 +0.512

Mittlere Zeit Greenw.	594) $\delta$ Scorpii		598) $\delta$ Draconis		597) $\beta$ Scorpii		603) $\delta$ Ophiuchi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	15 <sup>h</sup> 55 <sup>m</sup>	-22° 23'	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	35.941 <sup>296</sup>	36.66 <sup>80</sup>	21.226 <sup>349</sup>	33.63 <sup>306</sup>	46.850 <sup>287</sup>	9.88 <sup>89</sup>	8.889 <sup>259</sup>	19.65 <sup>159</sup>
10.9	36.237 <sup>317</sup>	37.46 <sup>92</sup>	21.575 <sup>404</sup>	30.57 <sup>265</sup>	47.137 <sup>309</sup>	10.77 <sup>100</sup>	9.148 <sup>283</sup>	21.24 <sup>156</sup>
20.8	36.554 <sup>330</sup>	38.38 <sup>101</sup>	21.979 <sup>445</sup>	27.92 <sup>212</sup>	47.446 <sup>322</sup>	11.77 <sup>106</sup>	9.431 <sup>297</sup>	22.80 <sup>146</sup>
30.8	36.884 <sup>334</sup>	39.39 <sup>106</sup>	22.424 <sup>470</sup>	25.80 <sup>152</sup>	47.768 <sup>327</sup>	12.83 <sup>106</sup>	9.728 <sup>304</sup>	24.26 <sup>131</sup>
Feb. 9.8	37.218 <sup>330</sup>	40.45 <sup>105</sup>	22.894 <sup>481</sup>	24.28 <sup>87</sup>	48.095 <sup>324</sup>	13.89 <sup>104</sup>	10.032 <sup>303</sup>	25.57 <sup>111</sup>
19.8	37.548 <sup>321</sup>	41.50 <sup>102</sup>	23.375 <sup>477</sup>	23.41 <sup>19</sup>	48.419 <sup>316</sup>	14.93 <sup>98</sup>	10.335 <sup>297</sup>	26.68 <sup>87</sup>
29.7	37.869 <sup>306</sup>	42.52 <sup>95</sup>	23.852 <sup>458</sup>	23.22 <sup>48</sup>	48.735 <sup>302</sup>	15.91 <sup>87</sup>	10.632 <sup>285</sup>	27.55 <sup>60</sup>
März 10.7	38.175 <sup>287</sup>	43.47 <sup>86</sup>	24.310 <sup>427</sup>	23.70 <sup>111</sup>	49.037 <sup>285</sup>	16.78 <sup>76</sup>	10.917 <sup>270</sup>	28.15 <sup>33</sup>
20.7	38.462 <sup>266</sup>	44.33 <sup>76</sup>	24.737 <sup>386</sup>	24.81 <sup>171</sup>	49.322 <sup>264</sup>	17.54 <sup>63</sup>	11.187 <sup>252</sup>	28.48 <sup>6</sup>
30.6	38.728 <sup>243</sup>	45.09 <sup>65</sup>	25.123 <sup>334</sup>	26.52 <sup>221</sup>	49.586 <sup>242</sup>	18.17 <sup>50</sup>	11.439 <sup>230</sup>	28.54 <sup>19</sup>
Apr. 9.6	38.971 <sup>218</sup>	45.74 <sup>55</sup>	25.457 <sup>276</sup>	28.73 <sup>264</sup>	49.828 <sup>217</sup>	18.67 <sup>39</sup>	11.669 <sup>208</sup>	28.35 <sup>42</sup>
19.6	39.189 <sup>190</sup>	46.29 <sup>45</sup>	25.733 <sup>215</sup>	31.37 <sup>295</sup>	50.045 <sup>191</sup>	19.06 <sup>28</sup>	11.877 <sup>183</sup>	27.93 <sup>61</sup>
29.6	39.379 <sup>161</sup>	46.74 <sup>37</sup>	25.948 <sup>148</sup>	34.32 <sup>316</sup>	50.236 <sup>163</sup>	19.34 <sup>18</sup>	12.060 <sup>156</sup>	27.32 <sup>75</sup>
Mai 9.5	39.540 <sup>131</sup>	47.11 <sup>29</sup>	26.096 <sup>80</sup>	37.48 <sup>326</sup>	50.399 <sup>133</sup>	19.52 <sup>11</sup>	12.216 <sup>128</sup>	26.57 <sup>86</sup>
19.5	39.671 <sup>98</sup>	47.40 <sup>22</sup>	26.176 <sup>12</sup>	40.74 <sup>325</sup>	50.532 <sup>101</sup>	19.63 <sup>4</sup>	12.344 <sup>99</sup>	25.71 <sup>92</sup>
29.5	39.769 <sup>64</sup>	47.62 <sup>16</sup>	26.188 <sup>54</sup>	43.99 <sup>315</sup>	50.633 <sup>68</sup>	19.67 <sup>1</sup>	12.443 <sup>66</sup>	24.79 <sup>95</sup>
Juni 8.5	39.833 <sup>29</sup>	47.78 <sup>11</sup>	26.134 <sup>118</sup>	47.14 <sup>295</sup>	50.701 <sup>33</sup>	19.66 <sup>6</sup>	12.509 <sup>33</sup>	23.84 <sup>95</sup>
18.4	39.862 <sup>7</sup>	47.89 <sup>4</sup>	26.016 <sup>179</sup>	50.09 <sup>268</sup>	50.734 <sup>3</sup>	19.60 <sup>10</sup>	12.542 <sup>0</sup>	22.89 <sup>92</sup>
28.4	39.855 <sup>42</sup>	47.93 <sup>2</sup>	25.837 <sup>235</sup>	52.77 <sup>233</sup>	50.731 <sup>37</sup>	19.50 <sup>14</sup>	12.542 <sup>34</sup>	21.97 <sup>87</sup>
Juli 8.4	39.813 <sup>76</sup>	47.91 <sup>9</sup>	25.602 <sup>285</sup>	55.10 <sup>194</sup>	50.694 <sup>71</sup>	19.36 <sup>19</sup>	12.508 <sup>66</sup>	21.10 <sup>79</sup>
18.3	39.737 <sup>108</sup>	47.82 <sup>16</sup>	25.317 <sup>327</sup>	57.04 <sup>149</sup>	50.623 <sup>103</sup>	19.17 <sup>23</sup>	12.442 <sup>96</sup>	20.31 <sup>71</sup>
28.3	39.629 <sup>134</sup>	47.66 <sup>24</sup>	24.990 <sup>363</sup>	58.53 <sup>102</sup>	50.520 <sup>130</sup>	18.94 <sup>29</sup>	12.346 <sup>122</sup>	19.60 <sup>62</sup>
Aug. 7.3	39.495 <sup>156</sup>	47.42 <sup>32</sup>	24.627 <sup>388</sup>	59.55 <sup>52</sup>	50.390 <sup>152</sup>	18.65 <sup>33</sup>	12.224 <sup>144</sup>	18.98 <sup>51</sup>
17.3	39.339 <sup>170</sup>	47.10 <sup>39</sup>	24.239 <sup>403</sup>	60.07 <sup>1</sup>	50.238 <sup>167</sup>	18.32 <sup>38</sup>	12.080 <sup>160</sup>	18.47 <sup>40</sup>
27.2	39.169 <sup>177</sup>	46.71 <sup>47</sup>	23.836 <sup>408</sup>	60.08 <sup>51</sup>	50.071 <sup>174</sup>	17.94 <sup>43</sup>	11.920 <sup>168</sup>	18.07 <sup>29</sup>
Sept. 6.2	38.992 <sup>174</sup>	46.24 <sup>53</sup>	23.428 <sup>399</sup>	59.57 <sup>102</sup>	49.897 <sup>172</sup>	17.51 <sup>46</sup>	11.752 <sup>168</sup>	17.78 <sup>16</sup>
16.2	38.818 <sup>160</sup>	45.71 <sup>56</sup>	23.029 <sup>378</sup>	58.55 <sup>151</sup>	49.725 <sup>160</sup>	17.05 <sup>46</sup>	11.584 <sup>158</sup>	17.62 <sup>1</sup>
26.2	38.658 <sup>137</sup>	45.15 <sup>56</sup>	22.651 <sup>346</sup>	57.04 <sup>198</sup>	49.565 <sup>138</sup>	16.59 <sup>45</sup>	11.426 <sup>139</sup>	17.61 <sup>13</sup>
Okt. 6.1	38.521 <sup>104</sup>	44.59 <sup>54</sup>	22.305 <sup>299</sup>	55.06 <sup>242</sup>	49.427 <sup>107</sup>	16.14 <sup>41</sup>	11.287 <sup>112</sup>	17.74 <sup>31</sup>
16.1	38.417 <sup>63</sup>	44.05 <sup>48</sup>	22.006 <sup>241</sup>	52.64 <sup>281</sup>	49.320 <sup>66</sup>	15.73 <sup>33</sup>	11.175 <sup>76</sup>	18.05 <sup>49</sup>
26.1	38.354 <sup>16</sup>	43.57 <sup>37</sup>	21.765 <sup>172</sup>	49.83 <sup>315</sup>	49.254 <sup>21</sup>	15.40 <sup>21</sup>	11.099 <sup>33</sup>	18.54 <sup>68</sup>
Nov. 5.0	38.338 <sup>38</sup>	43.20 <sup>23</sup>	21.593 <sup>97</sup>	46.68 <sup>341</sup>	49.233 <sup>32</sup>	15.19 <sup>7</sup>	11.066 <sup>15</sup>	19.22 <sup>88</sup>
15.0	38.376 <sup>92</sup>	42.97 <sup>6</sup>	21.496 <sup>14</sup>	43.27 <sup>360</sup>	49.265 <sup>84</sup>	15.12 <sup>11</sup>	11.081 <sup>64</sup>	20.10 <sup>108</sup>
25.0	38.468 <sup>145</sup>	42.91 <sup>13</sup>	21.482 <sup>72</sup>	39.67 <sup>368</sup>	49.349 <sup>137</sup>	15.23 <sup>29</sup>	11.145 <sup>113</sup>	21.18 <sup>125</sup>
Dez. 5.0	38.613 <sup>195</sup>	43.04 <sup>33</sup>	21.554 <sup>155</sup>	35.99 <sup>367</sup>	49.486 <sup>186</sup>	15.52 <sup>48</sup>	11.258 <sup>161</sup>	22.43 <sup>141</sup>
14.9	38.808 <sup>238</sup>	43.37 <sup>53</sup>	21.709 <sup>236</sup>	32.32 <sup>354</sup>	49.672 <sup>230</sup>	16.00 <sup>66</sup>	11.419 <sup>203</sup>	23.84 <sup>153</sup>
24.9	39.046 <sup>275</sup>	43.90 <sup>71</sup>	21.945 <sup>309</sup>	28.78 <sup>328</sup>	49.902 <sup>265</sup>	16.66 <sup>82</sup>	11.622 <sup>239</sup>	25.37 <sup>158</sup>
34.9	39.321	44.61	22.254	25.50	50.167	17.48	11.861	26.95
Mittl. Ort sec $\delta$ , tg $\delta$	35.978 1.082	42.72 -0.412	23.279 1.929	42.79 +1.650	46.918 1.061	15.37 -0.356	9.084 1.002	21.85 -0.061

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.
1920	16 <sup>h</sup> 12 <sup>m</sup>	+76° 4'	16 <sup>h</sup> 13 <sup>m</sup>	-49° 57'	16 <sup>h</sup> 14 <sup>m</sup>	-4° 29'	16 <sup>h</sup> 17 <sup>m</sup>	+46° 29'
Jan. 0.9	59.25 <sup>57</sup>	37.37 <sup>305</sup>	50.510 <sup>384</sup>	26.95 <sup>66</sup>	4.981 <sup>257</sup>	52.42 <sup>152</sup>	18.808 <sup>277</sup>	65.31 <sup>309</sup>
10.9	59.82 <sup>71</sup>	34.32 <sup>262</sup>	50.894 <sup>420</sup>	26.29 <sup>34</sup>	5.238 <sup>282</sup>	53.94 <sup>150</sup>	19.085 <sup>319</sup>	62.22 <sup>274</sup>
20.8	60.53 <sup>82</sup>	31.70 <sup>209</sup>	51.314 <sup>443</sup>	25.95 <sup>3</sup>	5.520 <sup>296</sup>	55.44 <sup>142</sup>	19.404 <sup>351</sup>	59.48 <sup>229</sup>
30.8	61.35 <sup>89</sup>	29.61 <sup>149</sup>	51.757 <sup>456</sup>	25.92 <sup>28</sup>	5.816 <sup>304</sup>	56.86 <sup>128</sup>	19.755 <sup>372</sup>	57.19 <sup>175</sup>
Feb. 9.8	62.24 <sup>94</sup>	28.12 <sup>84</sup>	52.213 <sup>457</sup>	26.20 <sup>55</sup>	6.120 <sup>304</sup>	58.14 <sup>108</sup>	20.127 <sup>381</sup>	55.44 <sup>116</sup>
19.8	63.18 <sup>95</sup>	27.28 <sup>16</sup>	52.670 <sup>450</sup>	26.75 <sup>81</sup>	6.424 <sup>298</sup>	59.22 <sup>86</sup>	20.508 <sup>379</sup>	54.28 <sup>53</sup>
29.7	64.13 <sup>93</sup>	27.12 <sup>51</sup>	53.120 <sup>436</sup>	27.56 <sup>103</sup>	6.722 <sup>287</sup>	60.08 <sup>60</sup>	20.887 <sup>368</sup>	53.75 <sup>12</sup>
März 10.7	65.06 <sup>88</sup>	27.63 <sup>116</sup>	53.556 <sup>415</sup>	28.59 <sup>122</sup>	7.009 <sup>272</sup>	60.68 <sup>34</sup>	21.255 <sup>349</sup>	53.87 <sup>74</sup>
20.7	65.94 <sup>79</sup>	28.79 <sup>176</sup>	53.971 <sup>390</sup>	29.81 <sup>138</sup>	7.281 <sup>255</sup>	61.02 <sup>8</sup>	21.604 <sup>320</sup>	54.61 <sup>132</sup>
30.6	66.73 <sup>68</sup>	30.55 <sup>227</sup>	54.361 <sup>360</sup>	31.19 <sup>152</sup>	7.536 <sup>234</sup>	61.10 <sup>17</sup>	21.924 <sup>288</sup>	55.93 <sup>185</sup>
Apr. 9.6	67.41 <sup>56</sup>	32.82 <sup>270</sup>	54.721 <sup>325</sup>	32.71 <sup>161</sup>	7.770 <sup>212</sup>	60.93 <sup>39</sup>	22.212 <sup>248</sup>	57.78 <sup>229</sup>
19.6	67.97 <sup>41</sup>	35.52 <sup>300</sup>	55.046 <sup>288</sup>	34.32 <sup>170</sup>	7.982 <sup>187</sup>	60.54 <sup>57</sup>	22.460 <sup>206</sup>	60.07 <sup>264</sup>
29.6	68.38 <sup>26</sup>	38.52 <sup>322</sup>	55.334 <sup>246</sup>	36.02 <sup>174</sup>	8.169 <sup>161</sup>	59.97 <sup>71</sup>	22.666 <sup>160</sup>	62.71 <sup>288</sup>
Mai 9.5	68.64 <sup>11</sup>	41.74 <sup>331</sup>	55.580 <sup>200</sup>	37.76 <sup>176</sup>	8.330 <sup>133</sup>	59.26 <sup>82</sup>	22.826 <sup>112</sup>	65.59 <sup>303</sup>
19.5	68.75 <sup>5</sup>	45.05 <sup>331</sup>	55.780 <sup>152</sup>	39.52 <sup>174</sup>	8.463 <sup>102</sup>	58.44 <sup>88</sup>	22.938 <sup>63</sup>	68.62 <sup>308</sup>
29.5	68.70 <sup>20</sup>	48.36 <sup>319</sup>	55.932 <sup>101</sup>	41.26 <sup>170</sup>	8.565 <sup>71</sup>	57.56 <sup>91</sup>	23.001 <sup>13</sup>	71.70 <sup>303</sup>
Juni 8.5	68.50 <sup>34</sup>	51.55 <sup>300</sup>	56.033 <sup>47</sup>	42.96 <sup>160</sup>	8.636 <sup>37</sup>	56.65 <sup>91</sup>	23.014 <sup>36</sup>	74.73 <sup>290</sup>
18.4	68.16 <sup>48</sup>	54.55 <sup>272</sup>	56.080 <sup>7</sup>	44.56 <sup>148</sup>	8.673 <sup>4</sup>	55.74 <sup>88</sup>	22.978 <sup>83</sup>	77.63 <sup>269</sup>
28.4	67.68 <sup>61</sup>	57.27 <sup>236</sup>	56.073 <sup>61</sup>	46.04 <sup>130</sup>	8.677 <sup>30</sup>	54.86 <sup>83</sup>	22.895 <sup>130</sup>	80.32 <sup>240</sup>
Juli 8.4	67.07 <sup>71</sup>	59.63 <sup>196</sup>	56.012 <sup>113</sup>	47.34 <sup>109</sup>	8.647 <sup>63</sup>	54.03 <sup>77</sup>	22.765 <sup>171</sup>	82.72 <sup>206</sup>
18.3	66.36 <sup>80</sup>	61.59 <sup>151</sup>	55.899 <sup>161</sup>	48.43 <sup>84</sup>	8.584 <sup>93</sup>	53.26 <sup>69</sup>	22.594 <sup>210</sup>	84.78 <sup>167</sup>
28.3	65.56 <sup>87</sup>	63.10 <sup>102</sup>	55.738 <sup>202</sup>	49.27 <sup>56</sup>	8.491 <sup>121</sup>	52.57 <sup>60</sup>	22.384 <sup>241</sup>	86.45 <sup>126</sup>
Aug. 7.3	64.69 <sup>93</sup>	64.12 <sup>51</sup>	55.536 <sup>236</sup>	49.83 <sup>25</sup>	8.370 <sup>143</sup>	51.97 <sup>51</sup>	22.143 <sup>267</sup>	87.71 <sup>80</sup>
17.3	63.76 <sup>95</sup>	64.63 <sup>1</sup>	55.300 <sup>260</sup>	50.08 <sup>8</sup>	8.227 <sup>159</sup>	51.46 <sup>41</sup>	21.876 <sup>285</sup>	88.51 <sup>33</sup>
27.2	62.81 <sup>96</sup>	64.62 <sup>53</sup>	55.040 <sup>271</sup>	50.00 <sup>41</sup>	8.068 <sup>169</sup>	51.05 <sup>30</sup>	21.591 <sup>293</sup>	88.84 <sup>15</sup>
Sept. 6.2	61.85 <sup>90</sup>	64.09 <sup>104</sup>	54.769 <sup>269</sup>	49.59 <sup>74</sup>	7.899 <sup>168</sup>	50.75 <sup>18</sup>	21.298 <sup>292</sup>	88.69 <sup>63</sup>
16.2	60.90 <sup>95</sup>	63.05 <sup>154</sup>	54.500 <sup>253</sup>	48.85 <sup>105</sup>	7.731 <sup>160</sup>	50.57 <sup>5</sup>	21.006 <sup>280</sup>	88.06 <sup>111</sup>
26.2	60.00 <sup>85</sup>	61.51 <sup>201</sup>	54.247 <sup>223</sup>	47.80 <sup>131</sup>	7.571 <sup>141</sup>	50.52 <sup>10</sup>	20.726 <sup>257</sup>	86.95 <sup>157</sup>
Okt. 6.1	59.15 <sup>75</sup>	59.50 <sup>244</sup>	54.024 <sup>179</sup>	46.49 <sup>154</sup>	7.430 <sup>114</sup>	50.62 <sup>25</sup>	20.469 <sup>223</sup>	85.38 <sup>201</sup>
16.1	58.40 <sup>65</sup>	57.06 <sup>284</sup>	53.845 <sup>123</sup>	44.95 <sup>169</sup>	7.316 <sup>78</sup>	50.87 <sup>43</sup>	20.246 <sup>180</sup>	83.37 <sup>241</sup>
26.1	57.75 <sup>51</sup>	54.22 <sup>316</sup>	53.722 <sup>58</sup>	43.26 <sup>179</sup>	7.238 <sup>36</sup>	51.30 <sup>62</sup>	20.066 <sup>128</sup>	80.96 <sup>278</sup>
Nov. 5.0	57.24 <sup>37</sup>	51.06 <sup>343</sup>	53.664 <sup>15</sup>	41.47 <sup>179</sup>	7.202 <sup>12</sup>	51.92 <sup>81</sup>	19.938 <sup>68</sup>	78.18 <sup>307</sup>
15.0	56.87 <sup>20</sup>	47.63 <sup>360</sup>	53.679 <sup>90</sup>	39.68 <sup>173</sup>	7.214 <sup>61</sup>	52.73 <sup>100</sup>	19.870 <sup>5</sup>	75.11 <sup>331</sup>
25.0	56.67 <sup>3</sup>	44.03 <sup>369</sup>	53.769 <sup>164</sup>	37.95 <sup>159</sup>	7.275 <sup>111</sup>	53.73 <sup>118</sup>	19.865 <sup>62</sup>	71.80 <sup>345</sup>
Dez. 5.0	56.64 <sup>15</sup>	40.34 <sup>367</sup>	53.933 <sup>235</sup>	36.36 <sup>139</sup>	7.386 <sup>158</sup>	54.91 <sup>133</sup>	19.927 <sup>127</sup>	68.35 <sup>350</sup>
14.9	56.79 <sup>32</sup>	36.67 <sup>353</sup>	54.168 <sup>299</sup>	34.97 <sup>113</sup>	7.544 <sup>201</sup>	56.24 <sup>145</sup>	20.054 <sup>190</sup>	64.85 <sup>344</sup>
24.9	57.11 <sup>48</sup>	33.14 <sup>327</sup>	54.467 <sup>352</sup>	33.84 <sup>84</sup>	7.745 <sup>237</sup>	57.69 <sup>152</sup>	20.244 <sup>246</sup>	61.41 <sup>327</sup>
34.9	57.59	29.87	54.819	33.00	7.982	59.21	20.490	58.14
Mittl. Ort	65.08	46.33	50.743	38.09	5.182	54.94	20.111	71.59
sec δ, tg δ	4.157	+4.035	1.554	-1.190	1.003	-0.079	1.453	+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.
1920	16 <sup>h</sup> 18 <sup>m</sup>	+19° 20'	16 <sup>h</sup> 21 <sup>m</sup>	-78° 42'	16 <sup>h</sup> 22 <sup>m</sup>	+61° 41'	16 <sup>h</sup> 24 <sup>m</sup>	-26° 15'
Jan. 0.9	22.894 <sup>246</sup>	22.33 <sup>246</sup>	5.68 <sup>105</sup>	58.30 <sup>190</sup>	51.76 <sup>33</sup>	34.84 <sup>321</sup>	29.785 <sup>283</sup>	13.46 <sup>42</sup>
10.9	23.140 <sup>273</sup>	19.87 <sup>226</sup>	6.73 <sup>117</sup>	56.40 <sup>146</sup>	52.09 <sup>40</sup>	31.63 <sup>282</sup>	30.068 <sup>310</sup>	13.88 <sup>56</sup>
20.9	23.413 <sup>293</sup>	17.61 <sup>199</sup>	7.90 <sup>128</sup>	54.94 <sup>99</sup>	52.49 <sup>45</sup>	28.81 <sup>233</sup>	30.378 <sup>327</sup>	14.44 <sup>67</sup>
30.8	23.706 <sup>303</sup>	15.62 <sup>162</sup>	9.18 <sup>134</sup>	53.95 <sup>50</sup>	52.94 <sup>49</sup>	26.48 <sup>175</sup>	30.705 <sup>337</sup>	15.11 <sup>75</sup>
Feb. 9.8	24.009 <sup>306</sup>	14.00 <sup>120</sup>	10.52 <sup>137</sup>	53.45 <sup>0</sup>	53.43 <sup>51</sup>	24.73 <sup>111</sup>	31.042 <sup>338</sup>	15.86 <sup>79</sup>
19.8	24.315 <sup>302</sup>	12.80 <sup>76</sup>	11.89 <sup>137</sup>	53.45 <sup>47</sup>	53.94 <sup>52</sup>	23.62 <sup>44</sup>	31.380 <sup>334</sup>	16.65 <sup>80</sup>
29.7	24.617 <sup>292</sup>	12.04 <sup>27</sup>	13.26 <sup>134</sup>	53.92 <sup>93</sup>	54.46 <sup>50</sup>	23.18 <sup>24</sup>	31.714 <sup>324</sup>	17.45 <sup>77</sup>
März 10.7	24.909 <sup>277</sup>	11.77 <sup>20</sup>	14.60 <sup>129</sup>	54.85 <sup>134</sup>	54.96 <sup>48</sup>	23.42 <sup>91</sup>	32.038 <sup>310</sup>	18.22 <sup>73</sup>
20.7	25.186 <sup>258</sup>	11.97 <sup>66</sup>	15.89 <sup>121</sup>	56.19 <sup>173</sup>	55.44 <sup>44</sup>	24.33 <sup>152</sup>	32.348 <sup>292</sup>	18.95 <sup>68</sup>
30.7	25.444 <sup>236</sup>	12.63 <sup>106</sup>	17.10 <sup>111</sup>	57.92 <sup>206</sup>	55.88 <sup>40</sup>	25.85 <sup>207</sup>	32.640 <sup>272</sup>	19.63 <sup>62</sup>
Apr. 9.6	25.680 <sup>210</sup>	13.69 <sup>142</sup>	18.21 <sup>100</sup>	59.98 <sup>236</sup>	56.28 <sup>33</sup>	27.92 <sup>252</sup>	32.912 <sup>249</sup>	20.25 <sup>56</sup>
19.6	25.890 <sup>184</sup>	15.11 <sup>171</sup>	19.21 <sup>86</sup>	62.34 <sup>259</sup>	56.61 <sup>26</sup>	30.44 <sup>288</sup>	33.161 <sup>223</sup>	20.81 <sup>50</sup>
29.6	26.074 <sup>153</sup>	16.82 <sup>192</sup>	20.07 <sup>71</sup>	64.93 <sup>278</sup>	56.87 <sup>20</sup>	33.32 <sup>314</sup>	33.384 <sup>196</sup>	21.31 <sup>45</sup>
Mai 9.6	26.227 <sup>122</sup>	18.74 <sup>207</sup>	20.78 <sup>54</sup>	67.71 <sup>289</sup>	57.07 <sup>12</sup>	36.46 <sup>329</sup>	33.580 <sup>164</sup>	21.76 <sup>41</sup>
19.5	26.349 <sup>89</sup>	20.81 <sup>213</sup>	21.32 <sup>38</sup>	70.60 <sup>295</sup>	57.19 <sup>5</sup>	39.75 <sup>332</sup>	33.744 <sup>132</sup>	22.17 <sup>37</sup>
29.5	26.438 <sup>55</sup>	22.94 <sup>214</sup>	21.70 <sup>19</sup>	73.55 <sup>294</sup>	57.24 <sup>3</sup>	43.07 <sup>327</sup>	33.876 <sup>95</sup>	22.54 <sup>33</sup>
Juni 8.5	26.493 <sup>19</sup>	25.08 <sup>207</sup>	21.89 <sup>1</sup>	76.49 <sup>285</sup>	57.21 <sup>10</sup>	46.34 <sup>310</sup>	33.971 <sup>58</sup>	22.87 <sup>30</sup>
18.4	26.512 <sup>16</sup>	27.15 <sup>195</sup>	21.90 <sup>18</sup>	79.34 <sup>269</sup>	57.11 <sup>17</sup>	49.44 <sup>287</sup>	34.029 <sup>19</sup>	23.17 <sup>25</sup>
28.4	26.496 <sup>51</sup>	29.10 <sup>177</sup>	21.72 <sup>36</sup>	82.03 <sup>246</sup>	56.94 <sup>24</sup>	52.31 <sup>255</sup>	34.048 <sup>20</sup>	23.42 <sup>20</sup>
Juli 8.4	26.445 <sup>85</sup>	30.87 <sup>157</sup>	21.36 <sup>52</sup>	84.49 <sup>216</sup>	56.70 <sup>29</sup>	54.86 <sup>218</sup>	34.028 <sup>59</sup>	23.62 <sup>13</sup>
18.4	26.360 <sup>115</sup>	32.44 <sup>132</sup>	20.84 <sup>67</sup>	86.65 <sup>178</sup>	56.41 <sup>35</sup>	57.04 <sup>176</sup>	33.969 <sup>96</sup>	23.75 <sup>5</sup>
28.3	26.245 <sup>143</sup>	33.76 <sup>105</sup>	20.17 <sup>80</sup>	88.43 <sup>135</sup>	56.06 <sup>40</sup>	58.80 <sup>129</sup>	33.873 <sup>127</sup>	23.80 <sup>4</sup>
Aug. 7.3	26.102 <sup>165</sup>	34.81 <sup>76</sup>	19.37 <sup>90</sup>	89.78 <sup>87</sup>	55.66 <sup>42</sup>	60.09 <sup>80</sup>	33.746 <sup>155</sup>	23.76 <sup>13</sup>
17.3	25.937 <sup>182</sup>	35.57 <sup>44</sup>	18.47 <sup>97</sup>	90.65 <sup>36</sup>	55.24 <sup>45</sup>	60.89 <sup>29</sup>	33.591 <sup>174</sup>	23.63 <sup>24</sup>
27.2	25.755 <sup>190</sup>	36.01 <sup>13</sup>	17.50 <sup>100</sup>	91.01 <sup>19</sup>	54.79 <sup>46</sup>	61.18 <sup>23</sup>	33.417 <sup>186</sup>	23.39 <sup>35</sup>
Sept. 6.2	25.565 <sup>191</sup>	36.14 <sup>20</sup>	16.50 <sup>99</sup>	90.82 <sup>73</sup>	54.33 <sup>46</sup>	60.95 <sup>75</sup>	33.231 <sup>188</sup>	23.04 <sup>44</sup>
16.2	25.374 <sup>182</sup>	35.94 <sup>53</sup>	15.51 <sup>94</sup>	90.09 <sup>126</sup>	53.87 <sup>44</sup>	60.20 <sup>127</sup>	33.043 <sup>179</sup>	22.60 <sup>53</sup>
26.2	25.192 <sup>165</sup>	35.41 <sup>85</sup>	14.57 <sup>84</sup>	88.83 <sup>174</sup>	53.43 <sup>41</sup>	58.93 <sup>175</sup>	32.864 <sup>160</sup>	22.07 <sup>59</sup>
Okt. 6.1	25.027 <sup>138</sup>	34.56 <sup>118</sup>	13.73 <sup>71</sup>	87.09 <sup>218</sup>	53.02 <sup>36</sup>	57.18 <sup>221</sup>	32.704 <sup>130</sup>	21.48 <sup>62</sup>
16.1	24.889 <sup>103</sup>	33.38 <sup>151</sup>	13.02 <sup>54</sup>	84.91 <sup>253</sup>	52.66 <sup>31</sup>	54.97 <sup>264</sup>	32.574 <sup>91</sup>	20.86 <sup>62</sup>
26.1	24.786 <sup>61</sup>	31.87 <sup>180</sup>	12.48 <sup>35</sup>	82.38 <sup>279</sup>	52.35 <sup>24</sup>	52.33 <sup>301</sup>	32.483 <sup>44</sup>	20.24 <sup>56</sup>
Nov. 5.1	24.725 <sup>14</sup>	30.07 <sup>207</sup>	12.13 <sup>12</sup>	79.59 <sup>295</sup>	52.11 <sup>16</sup>	49.32 <sup>331</sup>	32.439 <sup>8</sup>	19.68 <sup>48</sup>
15.0	24.711 <sup>37</sup>	28.00 <sup>229</sup>	12.01 <sup>10</sup>	76.64 <sup>300</sup>	51.95 <sup>7</sup>	46.01 <sup>354</sup>	32.447 <sup>64</sup>	19.20 <sup>36</sup>
25.0	24.748 <sup>88</sup>	25.71 <sup>247</sup>	12.11 <sup>33</sup>	73.64 <sup>293</sup>	51.88 <sup>2</sup>	42.47 <sup>367</sup>	32.511 <sup>119</sup>	18.84 <sup>20</sup>
Dez. 5.0	24.836 <sup>138</sup>	23.24 <sup>258</sup>	12.44 <sup>56</sup>	70.71 <sup>276</sup>	51.90 <sup>11</sup>	38.80 <sup>370</sup>	32.630 <sup>171</sup>	18.64 <sup>3</sup>
14.9	24.974 <sup>184</sup>	20.66 <sup>260</sup>	13.00 <sup>76</sup>	67.95 <sup>249</sup>	52.01 <sup>20</sup>	35.10 <sup>361</sup>	32.801 <sup>218</sup>	18.61 <sup>15</sup>
24.9	25.158 <sup>223</sup>	18.06 <sup>255</sup>	13.76 <sup>93</sup>	65.46 <sup>214</sup>	52.21 <sup>29</sup>	31.49 <sup>341</sup>	33.019 <sup>259</sup>	18.76 <sup>33</sup>
34.9	25.381	15.51	14.69	63.32	52.50	28.08	33.278	19.09
Mittl. Ort sec $\delta$ , t $\delta$ $\delta$	23.396 1.060	24.33 +0.351	8.02 5.112	72.32 -5.014	54.24 2.109	42.07 +1.857	29.938 1.115	20.44 -0.493



Mittlere Zeit Greenw.	618) $\beta$ Herculis		619) $\Delta$ Draconis		621) $\sigma$ Herculis		622) $\zeta$ Ophiuchi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	16 <sup>h</sup> 26 <sup>m</sup>	+21° 39'	16 <sup>h</sup> 28 <sup>m</sup>	+68° 56'	16 <sup>h</sup> 31 <sup>m</sup>	+42° 35'	16 <sup>h</sup> 32 <sup>m</sup>	-10° 24'
Jan. 0.9	46.234 <sub>239</sub>	44.89 <sub>255</sub>	4.26 <sub>39</sub>	21.42 <sub>322</sub>	30.231 <sub>252</sub>	60.14 <sub>309</sub>	44.879 <sub>250</sub>	18.08 <sub>118</sub>
10.9	46.473 <sub>269</sub>	42.34 <sub>234</sub>	4.65 <sub>48</sub>	18.20 <sub>283</sub>	30.483 <sub>294</sub>	57.05 <sub>278</sub>	45.129 <sub>276</sub>	19.26 <sub>119</sub>
20.9	46.742 <sub>290</sub>	40.00 <sub>205</sub>	5.13 <sub>55</sub>	15.37 <sub>233</sub>	30.777 <sub>326</sub>	54.27 <sub>236</sub>	45.405 <sub>295</sub>	20.45 <sub>117</sub>
30.8	47.032 <sub>302</sub>	37.95 <sub>167</sub>	5.68 <sub>61</sub>	13.04 <sub>175</sub>	31.103 <sub>347</sub>	51.91 <sub>187</sub>	45.700 <sub>303</sub>	21.62 <sub>108</sub>
Feb. 9.8	47.334 <sub>307</sub>	36.28 <sub>125</sub>	6.29 <sub>65</sub>	11.29 <sub>112</sub>	31.450 <sub>358</sub>	50.04 <sub>130</sub>	46.003 <sub>307</sub>	22.70 <sub>96</sub>
19.8	47.641 <sub>304</sub>	35.03 <sub>77</sub>	6.94 <sub>66</sub>	10.17 <sub>43</sub>	31.808 <sub>359</sub>	48.74 <sub>69</sub>	46.310 <sub>304</sub>	23.66 <sub>79</sub>
29.7	47.945 <sub>297</sub>	34.26 <sub>28</sub>	7.60 <sub>64</sub>	9.74 <sub>25</sub>	32.167 <sub>353</sub>	48.05 <sub>6</sub>	46.614 <sub>296</sub>	24.45 <sub>61</sub>
März 10.7	48.242 <sub>283</sub>	33.98 <sub>21</sub>	8.24 <sub>62</sub>	9.99 <sub>92</sub>	32.520 <sub>337</sub>	47.99 <sub>55</sub>	46.910 <sub>284</sub>	25.06 <sub>40</sub>
20.7	48.525 <sub>264</sub>	34.19 <sub>69</sub>	8.86 <sub>57</sub>	10.91 <sub>154</sub>	32.857 <sub>314</sub>	48.54 <sub>114</sub>	47.194 <sub>269</sub>	25.46 <sub>19</sub>
30.7	48.789 <sub>243</sub>	34.88 <sub>112</sub>	9.43 <sub>51</sub>	12.45 <sub>209</sub>	33.171 <sub>285</sub>	49.68 <sub>167</sub>	47.463 <sub>251</sub>	25.65 <sub>1</sub>
Apr. 9.6	49.032 <sub>218</sub>	36.00 <sub>149</sub>	9.94 <sub>42</sub>	14.54 <sub>255</sub>	33.456 <sub>253</sub>	51.35 <sub>212</sub>	47.714 <sub>230</sub>	25.64 <sub>18</sub>
19.6	49.250 <sub>191</sub>	37.49 <sub>180</sub>	10.36 <sub>34</sub>	17.09 <sub>291</sub>	33.709 <sub>215</sub>	53.47 <sub>249</sub>	47.944 <sub>208</sub>	25.46 <sub>33</sub>
29.6	49.441 <sub>161</sub>	39.29 <sub>203</sub>	10.70 <sub>24</sub>	20.00 <sub>317</sub>	33.924 <sub>174</sub>	55.96 <sub>276</sub>	48.152 <sub>182</sub>	25.13 <sub>45</sub>
Mai 9.6	49.602 <sub>130</sub>	41.32 <sub>218</sub>	10.94 <sub>14</sub>	23.17 <sub>332</sub>	34.098 <sub>130</sub>	58.72 <sub>293</sub>	48.334 <sub>155</sub>	24.68 <sub>54</sub>
19.5	49.732 <sub>95</sub>	43.50 <sub>225</sub>	11.08 <sub>4</sub>	26.49 <sub>336</sub>	34.228 <sub>85</sub>	61.65 <sub>301</sub>	48.489 <sub>124</sub>	24.14 <sub>59</sub>
29.5	49.827 <sub>60</sub>	45.75 <sub>226</sub>	11.12 <sub>6</sub>	29.85 <sub>330</sub>	34.313 <sub>39</sub>	64.66 <sub>299</sub>	48.613 <sub>92</sub>	23.55 <sub>62</sub>
Juni 8.5	49.887 <sub>24</sub>	48.01 <sub>220</sub>	11.06 <sub>16</sub>	33.15 <sub>314</sub>	34.352 <sub>8</sub>	67.65 <sub>290</sub>	48.705 <sub>58</sub>	22.93 <sub>63</sub>
18.4	49.911 <sub>12</sub>	50.21 <sub>208</sub>	10.90 <sub>25</sub>	36.29 <sub>291</sub>	34.344 <sub>55</sub>	70.55 <sub>271</sub>	48.763 <sub>22</sub>	22.30 <sub>62</sub>
28.4	49.899 <sub>49</sub>	52.29 <sub>189</sub>	10.65 <sub>34</sub>	39.20 <sub>258</sub>	34.289 <sub>99</sub>	73.26 <sub>246</sub>	48.785 <sub>14</sub>	21.68 <sub>58</sub>
Juli 8.4	49.850 <sub>83</sub>	54.18 <sub>168</sub>	10.31 <sub>42</sub>	41.78 <sub>221</sub>	34.190 <sub>141</sub>	75.72 <sub>215</sub>	48.771 <sub>49</sub>	21.10 <sub>55</sub>
18.4	49.767 <sub>116</sub>	55.86 <sub>142</sub>	9.89 <sub>49</sub>	43.99 <sub>178</sub>	34.049 <sub>179</sub>	77.87 <sub>179</sub>	48.722 <sub>83</sub>	20.55 <sub>51</sub>
28.3	49.651 <sub>145</sub>	57.28 <sub>114</sub>	9.40 <sub>54</sub>	45.77 <sub>131</sub>	33.870 <sub>213</sub>	79.66 <sub>139</sub>	48.639 <sub>114</sub>	20.04 <sub>46</sub>
Aug. 7.3	49.506 <sub>168</sub>	58.42 <sub>82</sub>	8.86 <sub>59</sub>	47.08 <sub>82</sub>	33.657 <sub>240</sub>	81.05 <sub>97</sub>	48.525 <sub>139</sub>	19.58 <sub>42</sub>
17.3	49.338 <sub>186</sub>	59.24 <sub>50</sub>	8.27 <sub>62</sub>	47.90 <sub>30</sub>	33.417 <sub>261</sub>	82.02 <sub>51</sub>	48.386 <sub>158</sub>	19.16 <sub>36</sub>
27.2	49.152 <sub>196</sub>	59.74 <sub>17</sub>	7.65 <sub>62</sub>	48.20 <sub>23</sub>	33.156 <sub>271</sub>	82.53 <sub>6</sub>	48.228 <sub>171</sub>	18.80 <sub>31</sub>
Sept. 6.2	48.956 <sub>198</sub>	59.91 <sub>18</sub>	7.03 <sub>63</sub>	47.97 <sub>75</sub>	32.885 <sub>273</sub>	82.59 <sub>42</sub>	48.057 <sub>174</sub>	18.49 <sub>25</sub>
16.2	48.758 <sub>190</sub>	59.73 <sub>53</sub>	6.40 <sub>61</sub>	47.22 <sub>126</sub>	32.612 <sub>265</sub>	82.17 <sub>88</sub>	47.883 <sub>167</sub>	18.24 <sub>18</sub>
26.2	48.568 <sub>174</sub>	59.20 <sub>88</sub>	5.79 <sub>57</sub>	45.96 <sub>175</sub>	32.347 <sub>246</sub>	81.29 <sub>134</sub>	47.716 <sub>152</sub>	18.06 <sub>9</sub>
Okt. 6.1	48.394 <sub>149</sub>	58.32 <sub>122</sub>	5.22 <sub>51</sub>	44.21 <sub>222</sub>	32.101 <sub>216</sub>	79.95 <sub>178</sub>	47.564 <sub>126</sub>	17.97 <sub>1</sub>
16.1	48.245 <sub>114</sub>	57.10 <sub>155</sub>	4.71 <sub>44</sub>	41.99 <sub>265</sub>	31.885 <sub>177</sub>	78.17 <sub>219</sub>	47.438 <sub>92</sub>	17.98 <sub>14</sub>
26.1	48.131 <sub>72</sub>	55.55 <sub>186</sub>	4.27 <sub>36</sub>	39.34 <sub>301</sub>	31.708 <sub>130</sub>	75.98 <sub>257</sub>	47.346 <sub>50</sub>	18.12 <sub>28</sub>
Nov. 5.1	48.059 <sub>25</sub>	53.69 <sub>214</sub>	3.91 <sub>25</sub>	36.33 <sub>332</sub>	31.578 <sub>74</sub>	73.41 <sub>288</sub>	47.296 <sub>3</sub>	18.40 <sub>43</sub>
15.0	48.034 <sub>26</sub>	51.55 <sub>238</sub>	3.66 <sub>14</sub>	33.01 <sub>355</sub>	31.504 <sub>14</sub>	70.53 <sub>314</sub>	47.293 <sub>47</sub>	18.83 <sub>60</sub>
25.0	48.060 <sub>77</sub>	49.17 <sub>255</sub>	3.52 <sub>3</sub>	29.46 <sub>368</sub>	31.490 <sub>48</sub>	67.39 <sub>331</sub>	47.340 <sub>97</sub>	19.43 <sub>77</sub>
Dez. 5.0	48.137 <sub>128</sub>	46.62 <sub>267</sub>	3.49 <sub>10</sub>	25.78 <sub>371</sub>	31.538 <sub>110</sub>	64.08 <sub>339</sub>	47.437 <sub>145</sub>	20.20 <sub>92</sub>
14.9	48.265 <sub>175</sub>	43.95 <sub>270</sub>	3.59 <sub>21</sub>	22.07 <sub>363</sub>	31.648 <sub>169</sub>	60.69 <sub>338</sub>	47.582 <sub>190</sub>	21.12 <sub>105</sub>
24.9	48.440 <sub>215</sub>	41.25 <sub>264</sub>	3.80 <sub>33</sub>	18.44 <sub>342</sub>	31.817 <sub>222</sub>	57.31 <sub>324</sub>	47.772 <sub>228</sub>	22.17 <sub>114</sub>
34.9	48.655	38.61	4.13	15.02	32.039	54.07	48.000	23.31
Mittl. Ort sec $\delta$ , tg $\delta$	46.804 1.076	46.80 +0.397	7.92 2.783	28.54 +2.597	31.408 1.359	64.73 +0.920	45.105 1.017	22.20 -0.184

Mittlere Zeit Greenw.	626) $\eta$ Herculis		625) $\alpha$ Triang. austr.		627) Gr. 2377		628) $\epsilon$ Scorpii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$16^h 40^m$	$+39^\circ 4'$	$16^h 40^m$	$-68^\circ 52'$	$16^h 43^m$	$+56^\circ 55'$	$16^h 44^m$	$-34^\circ 8'$
Jan. 0.9	8.106 <sup>238</sup>	21.89 <sup>305</sup>	9.58 <sup>57</sup>	45.65 <sup>176</sup>	44.584 <sup>274</sup>	22.78 <sup>330</sup>	58.406 <sup>285</sup>	48.94 <sup>14</sup>
10.9	8.344 <sup>279</sup>	18.84 <sup>277</sup>	10.15 <sup>65</sup>	43.89 <sup>139</sup>	44.858 <sup>335</sup>	19.48 <sup>297</sup>	58.691 <sup>316</sup>	48.80 <sup>5</sup>
20.9	8.623 <sup>309</sup>	16.07 <sup>239</sup>	10.80 <sup>71</sup>	42.50 <sup>99</sup>	45.193 <sup>385</sup>	16.51 <sup>252</sup>	59.007 <sup>339</sup>	48.85 <sup>21</sup>
30.8	8.932 <sup>330</sup>	13.68 <sup>191</sup>	11.51 <sup>75</sup>	41.51 <sup>57</sup>	45.578 <sup>423</sup>	13.99 <sup>198</sup>	59.346 <sup>353</sup>	49.06 <sup>35</sup>
Feb. 9.8	9.262 <sup>342</sup>	11.77 <sup>137</sup>	12.26 <sup>77</sup>	40.94 <sup>14</sup>	46.001 <sup>445</sup>	12.01 <sup>138</sup>	59.699 <sup>360</sup>	49.41 <sup>48</sup>
19.8	9.604 <sup>345</sup>	10.40 <sup>79</sup>	13.03 <sup>77</sup>	40.80 <sup>26</sup>	46.446 <sup>455</sup>	10.63 <sup>72</sup>	60.059 <sup>358</sup>	49.89 <sup>55</sup>
29.8	9.949 <sup>339</sup>	9.61 <sup>18</sup>	13.80 <sup>76</sup>	41.06 <sup>65</sup>	46.901 <sup>452</sup>	9.91 <sup>5</sup>	60.417 <sup>352</sup>	50.44 <sup>63</sup>
März 10.7	10.288 <sup>326</sup>	9.43 <sup>43</sup>	14.56 <sup>74</sup>	41.71 <sup>102</sup>	47.353 <sup>436</sup>	9.86 <sup>61</sup>	60.769 <sup>341</sup>	51.07 <sup>68</sup>
20.7	10.614 <sup>307</sup>	9.86 <sup>101</sup>	15.30 <sup>70</sup>	42.73 <sup>135</sup>	47.789 <sup>409</sup>	10.47 <sup>125</sup>	61.110 <sup>326</sup>	51.75 <sup>70</sup>
30.7	10.921 <sup>282</sup>	10.87 <sup>153</sup>	16.00 <sup>66</sup>	44.08 <sup>165</sup>	48.198 <sup>372</sup>	11.72 <sup>182</sup>	61.436 <sup>307</sup>	52.45 <sup>73</sup>
Apr. 9.6	11.203 <sup>252</sup>	12.40 <sup>198</sup>	16.66 <sup>60</sup>	45.73 <sup>191</sup>	48.570 <sup>327</sup>	13.54 <sup>231</sup>	61.743 <sup>284</sup>	53.18 <sup>73</sup>
19.6	11.455 <sup>219</sup>	14.38 <sup>236</sup>	17.26 <sup>54</sup>	47.64 <sup>214</sup>	48.897 <sup>274</sup>	15.85 <sup>272</sup>	62.027 <sup>260</sup>	53.91 <sup>76</sup>
29.6	11.674 <sup>180</sup>	16.74 <sup>264</sup>	17.80 <sup>46</sup>	49.78 <sup>232</sup>	49.171 <sup>217</sup>	18.57 <sup>302</sup>	62.287 <sup>230</sup>	54.67 <sup>76</sup>
Mai 9.6	11.854 <sup>141</sup>	19.38 <sup>283</sup>	18.26 <sup>38</sup>	52.10 <sup>244</sup>	49.388 <sup>155</sup>	21.59 <sup>321</sup>	62.517 <sup>198</sup>	55.43 <sup>76</sup>
19.5	11.995 <sup>98</sup>	22.21 <sup>292</sup>	18.64 <sup>28</sup>	54.54 <sup>252</sup>	49.543 <sup>91</sup>	24.80 <sup>331</sup>	62.715 <sup>162</sup>	56.19 <sup>76</sup>
29.5	12.093 <sup>54</sup>	25.13 <sup>293</sup>	18.92 <sup>20</sup>	57.06 <sup>253</sup>	49.634 <sup>26</sup>	28.11 <sup>329</sup>	62.877 <sup>123</sup>	56.95 <sup>76</sup>
Juni 8.5	12.147 <sup>10</sup>	28.06 <sup>284</sup>	19.12 <sup>9</sup>	59.59 <sup>250</sup>	49.660 <sup>39</sup>	31.40 <sup>319</sup>	63.000 <sup>82</sup>	57.71 <sup>73</sup>
18.5	12.157 <sup>35</sup>	30.90 <sup>268</sup>	19.21 <sup>1</sup>	62.09 <sup>238</sup>	49.621 <sup>103</sup>	34.59 <sup>300</sup>	63.082 <sup>38</sup>	58.44 <sup>69</sup>
28.4	12.122 <sup>78</sup>	33.58 <sup>245</sup>	19.20 <sup>11</sup>	64.47 <sup>221</sup>	49.518 <sup>164</sup>	37.59 <sup>273</sup>	63.120 <sup>7</sup>	59.13 <sup>62</sup>
Juli 8.4	12.044 <sup>120</sup>	36.03 <sup>217</sup>	19.09 <sup>21</sup>	66.68 <sup>198</sup>	49.354 <sup>220</sup>	40.32 <sup>240</sup>	63.113 <sup>50</sup>	59.75 <sup>55</sup>
18.4	11.924 <sup>158</sup>	38.20 <sup>183</sup>	18.88 <sup>29</sup>	68.66 <sup>167</sup>	49.134 <sup>272</sup>	42.72 <sup>200</sup>	63.063 <sup>93</sup>	60.30 <sup>43</sup>
28.3	11.766 <sup>192</sup>	40.03 <sup>145</sup>	18.59 <sup>38</sup>	70.33 <sup>131</sup>	48.862 <sup>315</sup>	44.72 <sup>158</sup>	62.970 <sup>131</sup>	60.73 <sup>31</sup>
Aug. 7.3	11.574 <sup>220</sup>	41.48 <sup>105</sup>	18.21 <sup>44</sup>	71.64 <sup>90</sup>	48.547 <sup>352</sup>	46.30 <sup>110</sup>	62.839 <sup>163</sup>	61.04 <sup>15</sup>
17.3	11.354 <sup>241</sup>	42.53 <sup>62</sup>	17.77 <sup>49</sup>	72.54 <sup>46</sup>	48.195 <sup>378</sup>	47.40 <sup>61</sup>	62.676 <sup>189</sup>	61.19 <sup>2</sup>
27.3	11.113 <sup>254</sup>	43.15 <sup>17</sup>	17.28 <sup>52</sup>	73.00 <sup>2</sup>	47.817 <sup>393</sup>	48.01 <sup>11</sup>	62.487 <sup>205</sup>	61.17 <sup>20</sup>
Sept. 6.2	10.859 <sup>257</sup>	43.32 <sup>29</sup>	16.76 <sup>52</sup>	72.98 <sup>49</sup>	47.424 <sup>397</sup>	48.12 <sup>41</sup>	62.282 <sup>210</sup>	60.97 <sup>37</sup>
16.2	10.602 <sup>251</sup>	43.03 <sup>73</sup>	16.24 <sup>51</sup>	72.49 <sup>98</sup>	47.027 <sup>389</sup>	47.71 <sup>92</sup>	62.072 <sup>205</sup>	60.60 <sup>54</sup>
26.2	10.351 <sup>235</sup>	42.30 <sup>119</sup>	15.73 <sup>46</sup>	71.51 <sup>141</sup>	46.638 <sup>367</sup>	46.79 <sup>143</sup>	61.867 <sup>188</sup>	60.06 <sup>70</sup>
Okt. 6.2	10.116 <sup>207</sup>	41.11 <sup>162</sup>	15.27 <sup>40</sup>	70.10 <sup>182</sup>	46.271 <sup>332</sup>	45.36 <sup>190</sup>	61.679 <sup>158</sup>	59.36 <sup>81</sup>
16.1	9.909 <sup>171</sup>	39.49 <sup>203</sup>	14.87 <sup>31</sup>	68.28 <sup>216</sup>	45.939 <sup>285</sup>	43.46 <sup>235</sup>	61.521 <sup>119</sup>	58.55 <sup>89</sup>
26.1	9.738 <sup>126</sup>	37.46 <sup>240</sup>	14.56 <sup>20</sup>	66.12 <sup>241</sup>	45.654 <sup>227</sup>	41.11 <sup>276</sup>	61.402 <sup>71</sup>	57.66 <sup>93</sup>
Nov. 5.1	9.612 <sup>73</sup>	35.06 <sup>273</sup>	14.36 <sup>9</sup>	63.71 <sup>256</sup>	45.427 <sup>158</sup>	38.35 <sup>310</sup>	61.331 <sup>16</sup>	56.73 <sup>91</sup>
15.0	9.539 <sup>17</sup>	32.33 <sup>299</sup>	14.27 <sup>4</sup>	61.15 <sup>264</sup>	45.269 <sup>84</sup>	35.25 <sup>337</sup>	61.315 <sup>43</sup>	55.82 <sup>84</sup>
25.0	9.522 <sup>42</sup>	29.34 <sup>319</sup>	14.31 <sup>17</sup>	58.51 <sup>260</sup>	45.185 <sup>4</sup>	31.88 <sup>355</sup>	61.358 <sup>101</sup>	54.98 <sup>74</sup>
Dez. 5.0	9.564 <sup>102</sup>	26.15 <sup>328</sup>	14.48 <sup>29</sup>	55.91 <sup>246</sup>	45.181 <sup>77</sup>	28.33 <sup>364</sup>	61.459 <sup>159</sup>	54.24 <sup>60</sup>
15.0	9.666 <sup>157</sup>	22.87 <sup>329</sup>	14.77 <sup>41</sup>	53.45 <sup>226</sup>	45.258 <sup>157</sup>	24.69 <sup>361</sup>	61.618 <sup>211</sup>	53.64 <sup>42</sup>
24.9	9.823 <sup>209</sup>	19.58 <sup>319</sup>	15.18 <sup>52</sup>	51.19 <sup>196</sup>	45.415 <sup>231</sup>	21.08 <sup>347</sup>	61.829 <sup>257</sup>	53.22 <sup>24</sup>
34.9	10.032	16.39	15.70	49.23	45.646	17.61	62.086	52.98
Mittl. Ort sec $\delta$ , tg $\delta$	9.172 1.288	25.34 +0.812	10.73 2.776	58.19 -2.589	46.669 1.832	27.61 +1.535	58.660 1.208	57.11 -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.
1920	16 <sup>h</sup> 48 <sup>m</sup>	+15° 6'	16 <sup>h</sup> 48 <sup>m</sup>	-42° 13'	16 <sup>h</sup> 51 <sup>m</sup>	-55° 51'	16 <sup>h</sup> 53 <sup>m</sup>	+9° 29'
Jan. 0.9	25.753 <sup>221</sup>	27.12 <sup>231</sup>	56.576 <sup>309</sup>	22.97 <sup>60</sup>	59.004 <sup>383</sup>	44.43 <sup>131</sup>	52.379 <sup>218</sup>	55.60 <sup>206</sup>
10.9	25.974 <sup>252</sup>	24.81 <sup>216</sup>	56.885 <sup>346</sup>	22.37 <sup>37</sup>	59.387 <sup>433</sup>	43.12 <sup>102</sup>	52.597 <sup>247</sup>	53.54 <sup>195</sup>
20.9	26.226 <sup>273</sup>	22.65 <sup>193</sup>	57.231 <sup>372</sup>	22.00 <sup>14</sup>	59.820 <sup>470</sup>	42.10 <sup>70</sup>	52.844 <sup>269</sup>	51.59 <sup>178</sup>
30.8	26.499 <sup>288</sup>	20.72 <sup>163</sup>	57.603 <sup>389</sup>	21.86 <sup>6</sup>	60.290 <sup>495</sup>	41.40 <sup>38</sup>	53.113 <sup>284</sup>	49.81 <sup>151</sup>
Feb. 9.8	26.787 <sup>296</sup>	19.09 <sup>127</sup>	57.992 <sup>397</sup>	21.92 <sup>26</sup>	60.785 <sup>509</sup>	41.02 <sup>7</sup>	53.397 <sup>292</sup>	48.30 <sup>120</sup>
19.8	27.083 <sup>298</sup>	17.82 <sup>85</sup>	58.389 <sup>398</sup>	22.18 <sup>44</sup>	61.294 <sup>513</sup>	40.95 <sup>23</sup>	53.689 <sup>293</sup>	47.10 <sup>84</sup>
29.8	27.381 <sup>292</sup>	16.97 <sup>41</sup>	58.787 <sup>392</sup>	22.62 <sup>58</sup>	61.807 <sup>507</sup>	41.18 <sup>51</sup>	53.982 <sup>290</sup>	46.26 <sup>45</sup>
März 10.7	27.673 <sup>283</sup>	16.56 <sup>4</sup>	59.179 <sup>381</sup>	23.20 <sup>72</sup>	62.314 <sup>494</sup>	41.69 <sup>78</sup>	54.272 <sup>281</sup>	45.81 <sup>5</sup>
20.7	27.956 <sup>269</sup>	16.60 <sup>47</sup>	59.560 <sup>365</sup>	23.92 <sup>83</sup>	62.808 <sup>474</sup>	42.47 <sup>101</sup>	54.553 <sup>268</sup>	45.76 <sup>33</sup>
30.7	28.225 <sup>252</sup>	17.07 <sup>86</sup>	59.925 <sup>344</sup>	24.75 <sup>92</sup>	63.282 <sup>447</sup>	43.48 <sup>123</sup>	54.821 <sup>252</sup>	46.09 <sup>70</sup>
Apr. 9.7	28.477 <sup>232</sup>	17.93 <sup>123</sup>	60.269 <sup>320</sup>	25.67 <sup>101</sup>	63.729 <sup>415</sup>	44.71 <sup>142</sup>	55.073 <sup>234</sup>	46.79 <sup>102</sup>
19.6	28.709 <sup>207</sup>	19.16 <sup>152</sup>	60.589 <sup>292</sup>	26.68 <sup>107</sup>	64.144 <sup>377</sup>	46.13 <sup>158</sup>	55.307 <sup>212</sup>	47.81 <sup>129</sup>
29.6	28.916 <sup>182</sup>	20.68 <sup>175</sup>	60.881 <sup>259</sup>	27.75 <sup>113</sup>	64.521 <sup>333</sup>	47.71 <sup>172</sup>	55.519 <sup>186</sup>	49.10 <sup>151</sup>
Mai 9.6	29.098 <sup>152</sup>	22.43 <sup>191</sup>	61.140 <sup>224</sup>	28.88 <sup>118</sup>	64.854 <sup>284</sup>	49.43 <sup>182</sup>	55.705 <sup>159</sup>	50.61 <sup>165</sup>
19.5	29.250 <sup>121</sup>	24.34 <sup>200</sup>	61.364 <sup>182</sup>	30.06 <sup>120</sup>	65.138 <sup>229</sup>	51.25 <sup>189</sup>	55.864 <sup>129</sup>	52.26 <sup>175</sup>
29.5	29.371 <sup>87</sup>	26.34 <sup>204</sup>	61.546 <sup>139</sup>	31.26 <sup>121</sup>	65.367 <sup>169</sup>	53.14 <sup>191</sup>	55.993 <sup>96</sup>	54.01 <sup>177</sup>
Juni 8.5	29.458 <sup>51</sup>	28.38 <sup>200</sup>	61.685 <sup>92</sup>	32.47 <sup>118</sup>	65.536 <sup>107</sup>	55.05 <sup>189</sup>	56.089 <sup>61</sup>	55.78 <sup>175</sup>
18.5	29.509 <sup>15</sup>	30.38 <sup>190</sup>	61.777 <sup>43</sup>	33.65 <sup>112</sup>	65.643 <sup>41</sup>	56.94 <sup>183</sup>	56.150 <sup>25</sup>	57.53 <sup>167</sup>
28.4	29.524 <sup>22</sup>	32.28 <sup>177</sup>	61.820 <sup>7</sup>	34.77 <sup>105</sup>	65.684 <sup>25</sup>	58.77 <sup>171</sup>	56.175 <sup>12</sup>	59.20 <sup>156</sup>
Juli 8.4	29.502 <sup>58</sup>	34.05 <sup>159</sup>	61.813 <sup>57</sup>	35.82 <sup>93</sup>	65.659 <sup>90</sup>	60.48 <sup>153</sup>	56.163 <sup>48</sup>	60.76 <sup>141</sup>
18.4	29.444 <sup>92</sup>	35.64 <sup>138</sup>	61.756 <sup>104</sup>	36.75 <sup>77</sup>	65.569 <sup>152</sup>	62.01 <sup>131</sup>	56.115 <sup>82</sup>	62.17 <sup>123</sup>
28.4	29.352 <sup>124</sup>	37.02 <sup>115</sup>	61.652 <sup>148</sup>	37.52 <sup>59</sup>	65.417 <sup>207</sup>	63.32 <sup>105</sup>	56.033 <sup>115</sup>	63.40 <sup>103</sup>
Aug. 7.3	29.228 <sup>150</sup>	38.17 <sup>88</sup>	61.504 <sup>183</sup>	38.11 <sup>38</sup>	65.210 <sup>255</sup>	64.37 <sup>73</sup>	55.918 <sup>142</sup>	64.43 <sup>82</sup>
17.3	29.078 <sup>171</sup>	39.05 <sup>61</sup>	61.321 <sup>213</sup>	38.49 <sup>14</sup>	64.955 <sup>292</sup>	65.10 <sup>39</sup>	55.776 <sup>163</sup>	65.25 <sup>59</sup>
27.3	28.907 <sup>185</sup>	39.66 <sup>32</sup>	61.108 <sup>230</sup>	38.63 <sup>12</sup>	64.663 <sup>316</sup>	65.49 <sup>2</sup>	55.613 <sup>179</sup>	65.84 <sup>34</sup>
Sept. 6.2	28.722 <sup>191</sup>	39.98 <sup>2</sup>	60.878 <sup>238</sup>	38.51 <sup>37</sup>	64.347 <sup>325</sup>	65.51 <sup>37</sup>	55.434 <sup>184</sup>	66.18 <sup>9</sup>
16.2	28.531 <sup>186</sup>	40.00 <sup>28</sup>	60.640 <sup>232</sup>	38.14 <sup>62</sup>	64.022 <sup>317</sup>	65.14 <sup>74</sup>	55.250 <sup>181</sup>	66.27 <sup>16</sup>
26.2	28.345 <sup>174</sup>	39.72 <sup>58</sup>	60.408 <sup>214</sup>	37.52 <sup>85</sup>	63.705 <sup>293</sup>	64.40 <sup>109</sup>	55.069 <sup>170</sup>	66.11 <sup>42</sup>
Okt. 6.2	28.171 <sup>151</sup>	39.14 <sup>89</sup>	60.194 <sup>181</sup>	36.67 <sup>105</sup>	63.412 <sup>253</sup>	63.31 <sup>141</sup>	54.899 <sup>148</sup>	65.69 <sup>69</sup>
16.1	28.020 <sup>120</sup>	38.25 <sup>118</sup>	60.013 <sup>138</sup>	35.62 <sup>120</sup>	63.159 <sup>198</sup>	61.90 <sup>167</sup>	54.751 <sup>118</sup>	65.00 <sup>95</sup>
26.1	27.900 <sup>81</sup>	37.07 <sup>148</sup>	59.875 <sup>86</sup>	34.42 <sup>130</sup>	62.961 <sup>130</sup>	60.23 <sup>188</sup>	54.633 <sup>80</sup>	64.05 <sup>121</sup>
Nov. 5.1	27.819 <sup>37</sup>	35.59 <sup>174</sup>	59.789 <sup>25</sup>	33.12 <sup>133</sup>	62.831 <sup>52</sup>	58.35 <sup>200</sup>	54.553 <sup>36</sup>	62.84 <sup>146</sup>
15.1	27.782 <sup>11</sup>	33.85 <sup>198</sup>	59.764 <sup>39</sup>	31.79 <sup>132</sup>	62.779 <sup>30</sup>	56.35 <sup>203</sup>	54.517 <sup>12</sup>	61.38 <sup>167</sup>
25.0	27.793 <sup>62</sup>	31.87 <sup>217</sup>	59.803 <sup>105</sup>	30.47 <sup>123</sup>	62.809 <sup>114</sup>	54.32 <sup>200</sup>	54.529 <sup>60</sup>	59.71 <sup>186</sup>
Dez. 5.0	27.855 <sup>110</sup>	29.70 <sup>231</sup>	59.908 <sup>168</sup>	29.24 <sup>110</sup>	62.923 <sup>198</sup>	52.32 <sup>189</sup>	54.589 <sup>109</sup>	57.85 <sup>201</sup>
15.0	27.965 <sup>156</sup>	27.39 <sup>238</sup>	60.076 <sup>227</sup>	28.14 <sup>93</sup>	63.121 <sup>274</sup>	50.43 <sup>170</sup>	54.698 <sup>154</sup>	55.84 <sup>209</sup>
24.9	28.121 <sup>197</sup>	25.01 <sup>237</sup>	60.303 <sup>278</sup>	27.21 <sup>71</sup>	63.395 <sup>341</sup>	48.73 <sup>147</sup>	54.852 <sup>193</sup>	53.75 <sup>210</sup>
34.9	28.318	22.64	60.581	26.50	63.736	47.26	55.045	51.65
Mittl. Ort sec δ, tg δ	26.271 1.036	26.75 +0.270	56.907 1.350	32.22 -0.908	59.606 1.782	55.26 -1.475	52.835 1.014	54.14 +0.167

Mittlere Zeit Greenw.	634) ε Herculis		637) η Ophiuchi		639) ζ Draconis		640) α Herculis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	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> 10 <sup>m</sup>	+14° 28'
Jan. 0.9	12.835 <sub>215</sub>	34.91 <sub>287</sub>	46.986 <sub>230</sub>	31.94 <sub>74</sub>	29.88 <sub>27</sub>	44.33 <sub>342</sub>	59.372 <sub>201</sub>	51.37 <sub>226</sub>
10.9	13.050 <sub>251</sub>	32.04 <sub>265</sub>	47.216 <sub>260</sub>	32.68 <sub>80</sub>	30.15 <sub>36</sub>	40.91 <sub>312</sub>	59.573 <sub>234</sub>	49.11 <sub>213</sub>
20.9	13.301 <sub>281</sub>	29.39 <sub>234</sub>	47.476 <sub>283</sub>	33.48 <sub>80</sub>	30.51 <sub>43</sub>	37.79 <sub>272</sub>	59.807 <sub>259</sub>	46.98 <sub>193</sub>
30.9	13.582 <sub>301</sub>	27.05 <sub>192</sub>	47.759 <sub>297</sub>	34.28 <sub>76</sub>	30.94 <sub>50</sub>	35.07 <sub>220</sub>	60.066 <sub>277</sub>	45.05 <sub>164</sub>
Feb. 9.8	13.883 <sub>313</sub>	25.13 <sub>145</sub>	48.056 <sub>306</sub>	35.04 <sub>70</sub>	31.44 <sub>55</sub>	32.87 <sub>162</sub>	60.343 <sub>288</sub>	43.41 <sub>130</sub>
19.8	14.196 <sub>319</sub>	23.68 <sub>92</sub>	48.362 <sub>309</sub>	35.74 <sub>59</sub>	31.99 <sub>57</sub>	31.25 <sub>96</sub>	60.631 <sub>293</sub>	42.11 <sub>90</sub>
29.8	14.515 <sub>316</sub>	22.76 <sub>36</sub>	48.671 <sub>306</sub>	36.33 <sub>45</sub>	32.56 <sub>58</sub>	30.29 <sub>29</sub>	60.924 <sub>292</sub>	41.21 <sub>47</sub>
März 10.7	14.831 <sub>308</sub>	22.40 <sub>20</sub>	48.977 <sub>300</sub>	36.78 <sub>31</sub>	33.14 <sub>57</sub>	30.00 <sub>39</sub>	61.216 <sub>287</sub>	40.74 <sub>2</sub>
20.7	15.139 <sub>294</sub>	22.60 <sub>76</sub>	49.277 <sub>289</sub>	37.09 <sub>16</sub>	33.71 <sub>54</sub>	30.39 <sub>105</sub>	61.503 <sub>277</sub>	40.72 <sub>41</sub>
30.7	15.433 <sub>275</sub>	23.36 <sub>125</sub>	49.566 <sub>275</sub>	37.25 <sub>0</sub>	34.25 <sub>51</sub>	31.44 <sub>166</sub>	61.780 <sub>263</sub>	41.13 <sub>81</sub>
Apr. 9.7	15.708 <sub>251</sub>	24.61 <sub>170</sub>	49.841 <sub>259</sub>	37.25 <sub>12</sub>	34.76 <sub>45</sub>	33.10 <sub>219</sub>	62.043 <sub>246</sub>	41.94 <sub>118</sub>
19.6	15.959 <sub>223</sub>	26.31 <sub>207</sub>	50.100 <sub>239</sub>	37.13 <sub>23</sub>	35.21 <sub>38</sub>	35.29 <sub>263</sub>	62.289 <sub>225</sub>	43.12 <sub>149</sub>
29.6	16.182 <sub>192</sub>	28.38 <sub>236</sub>	50.339 <sub>217</sub>	36.90 <sub>31</sub>	35.59 <sub>31</sub>	37.92 <sub>299</sub>	62.514 <sub>200</sub>	44.61 <sub>173</sub>
Mai 9.6	16.374 <sub>158</sub>	30.74 <sub>257</sub>	50.556 <sub>190</sub>	36.59 <sub>37</sub>	35.90 <sub>23</sub>	40.91 <sub>323</sub>	62.714 <sub>173</sub>	46.34 <sub>191</sub>
19.6	16.532 <sub>122</sub>	33.31 <sub>269</sub>	50.746 <sub>160</sub>	36.22 <sub>40</sub>	36.13 <sub>13</sub>	44.14 <sub>338</sub>	62.887 <sub>142</sub>	48.25 <sub>202</sub>
29.5	16.654 <sub>82</sub>	36.00 <sub>272</sub>	50.906 <sub>127</sub>	35.82 <sub>42</sub>	36.26 <sub>5</sub>	47.52 <sub>340</sub>	63.029 <sub>109</sub>	50.27 <sub>206</sub>
Juni 8.5	16.736 <sub>41</sub>	38.72 <sub>267</sub>	51.033 <sub>92</sub>	35.40 <sub>41</sub>	36.31 <sub>4</sub>	50.92 <sub>336</sub>	63.138 <sub>72</sub>	52.33 <sub>205</sub>
18.5	16.777 <sub>0</sub>	41.39 <sub>255</sub>	51.125 <sub>54</sub>	34.99 <sub>38</sub>	36.27 <sub>13</sub>	54.28 <sub>319</sub>	63.210 <sub>36</sub>	54.38 <sub>196</sub>
28.4	16.777 <sub>42</sub>	43.94 <sub>237</sub>	51.179 <sub>14</sub>	34.61 <sub>36</sub>	36.14 <sub>21</sub>	57.47 <sub>295</sub>	63.246 <sub>3</sub>	56.34 <sub>185</sub>
Juli 8.4	16.735 <sub>82</sub>	46.31 <sub>212</sub>	51.193 <sub>24</sub>	34.25 <sub>33</sub>	35.93 <sub>29</sub>	60.42 <sub>266</sub>	63.243 <sub>41</sub>	58.19 <sub>167</sub>
18.4	16.653 <sub>120</sub>	48.43 <sub>184</sub>	51.169 <sub>63</sub>	33.92 <sub>30</sub>	35.64 <sub>37</sub>	63.08 <sub>229</sub>	63.202 <sub>77</sub>	59.86 <sub>147</sub>
28.4	16.533 <sub>154</sub>	50.27 <sub>151</sub>	51.106 <sub>98</sub>	33.62 <sub>27</sub>	35.27 <sub>42</sub>	65.37 <sub>186</sub>	63.125 <sub>112</sub>	61.33 <sub>124</sub>
Aug. 7.3	16.379 <sub>183</sub>	51.78 <sub>115</sub>	51.008 <sub>129</sub>	33.35 <sub>26</sub>	34.85 <sub>48</sub>	67.23 <sub>141</sub>	63.013 <sub>141</sub>	62.57 <sub>100</sub>
17.3	16.196 <sub>207</sub>	52.93 <sub>77</sub>	50.879 <sub>155</sub>	33.09 <sub>24</sub>	34.37 <sub>52</sub>	68.64 <sub>93</sub>	62.872 <sub>166</sub>	63.57 <sub>72</sub>
27.3	15.989 <sub>222</sub>	53.70 <sub>37</sub>	50.724 <sub>172</sub>	32.85 <sub>23</sub>	33.85 <sub>55</sub>	69.57 <sub>41</sub>	62.706 <sub>182</sub>	64.29 <sub>44</sub>
Sept. 6.3	15.767 <sub>229</sub>	54.07 <sub>3</sub>	50.552 <sub>180</sub>	32.62 <sub>22</sub>	33.30 <sub>56</sub>	69.98 <sub>12</sub>	62.524 <sub>192</sub>	64.73 <sub>15</sub>
16.2	15.538 <sub>226</sub>	54.04 <sub>46</sub>	50.372 <sub>180</sub>	32.40 <sub>20</sub>	32.74 <sub>55</sub>	69.86 <sub>64</sub>	62.332 <sub>191</sub>	64.88 <sub>16</sub>
26.2	15.312 <sub>213</sub>	53.58 <sub>87</sub>	50.192 <sub>169</sub>	32.20 <sub>18</sub>	32.19 <sub>54</sub>	69.22 <sub>116</sub>	62.141 <sub>182</sub>	64.72 <sub>45</sub>
Okt. 6.2	15.099 <sub>191</sub>	52.71 <sub>127</sub>	50.023 <sub>147</sub>	32.02 <sub>13</sub>	31.65 <sub>49</sub>	68.06 <sub>167</sub>	61.959 <sub>162</sub>	64.27 <sub>76</sub>
16.1	14.908 <sub>159</sub>	51.44 <sub>166</sub>	49.876 <sub>116</sub>	31.89 <sub>8</sub>	31.16 <sub>45</sub>	66.39 <sub>214</sub>	61.797 <sub>135</sub>	63.51 <sub>105</sub>
26.1	14.749 <sub>118</sub>	49.78 <sub>202</sub>	49.760 <sub>78</sub>	31.81 <sub>1</sub>	30.71 <sub>37</sub>	64.25 <sub>258</sub>	61.662 <sub>98</sub>	62.46 <sub>134</sub>
Nov. 5.1	14.631 <sub>72</sub>	47.76 <sub>236</sub>	49.682 <sub>31</sub>	31.82 <sub>11</sub>	30.34 <sub>30</sub>	61.67 <sub>296</sub>	61.564 <sub>56</sub>	61.12 <sub>162</sub>
15.1	14.559 <sub>20</sub>	45.40 <sub>263</sub>	49.651 <sub>17</sub>	31.93 <sub>23</sub>	30.04 <sub>21</sub>	58.71 <sub>328</sub>	61.508 <sub>9</sub>	59.50 <sub>186</sub>
25.0	14.539 <sub>34</sub>	42.77 <sub>284</sub>	49.668 <sub>68</sub>	32.16 <sub>36</sub>	29.83 <sub>10</sub>	55.43 <sub>351</sub>	61.499 <sub>39</sub>	57.64 <sub>206</sub>
Dez. 5.0	14.573 <sub>87</sub>	39.93 <sub>298</sub>	49.736 <sub>118</sub>	32.52 <sub>48</sub>	29.73 <sub>0</sub>	51.92 <sub>364</sub>	61.538 <sub>88</sub>	55.58 <sub>221</sub>
15.0	14.660 <sub>140</sub>	36.95 <sub>303</sub>	49.854 <sub>164</sub>	33.00 <sub>62</sub>	29.73 <sub>11</sub>	48.28 <sub>366</sub>	61.626 <sub>135</sub>	53.37 <sub>231</sub>
25.0	14.800 <sub>186</sub>	33.92 <sub>297</sub>	50.018 <sub>205</sub>	33.62 <sub>71</sub>	29.84 <sub>21</sub>	44.62 <sub>356</sub>	61.761 <sub>176</sub>	51.06 <sub>231</sub>
34.9	14.986	30.95	50.223	34.33	30.05	41.06	61.937	48.75
Mittl. Ort sec δ, tg δ	13.694 1.167	36.11 +0.602	47.291 1.038	37.35 -0.280	33.11 2.441	47.10 +2.226	59.929 1.033	49.76 +0.258

Mittlere Zeit Greenwich.	641) δ Herculis		643) π Herculis		644) † Ophiuchi		645) β Arae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	17 <sup>h</sup> 11 <sup>m</sup>	+24° 55'	17 <sup>h</sup> 12 <sup>m</sup>	+36° 53'	17 <sup>h</sup> 17 <sup>m</sup>	-24° 55'	17 <sup>h</sup> 18 <sup>m</sup>	-55° 27'
Jan. 0.9	43.960 <sup>199</sup>	58.02 <sup>268</sup>	14.548 <sup>201</sup>	54.10 <sup>306</sup>	5.324 <sup>235</sup>	8.66 <sup>16</sup>	37.982 <sup>342</sup>	11.48 <sup>152</sup>
10.9	44.159 <sup>235</sup>	55.34 <sup>251</sup>	14.749 <sup>244</sup>	51.04 <sup>284</sup>	5.559 <sup>268</sup>	8.82 <sup>26</sup>	38.324 <sup>397</sup>	9.96 <sup>127</sup>
20.9	44.394 <sup>263</sup>	52.83 <sup>224</sup>	14.993 <sup>278</sup>	48.20 <sup>251</sup>	5.827 <sup>293</sup>	9.08 <sup>33</sup>	38.721 <sup>439</sup>	8.69 <sup>102</sup>
30.9	44.657 <sup>284</sup>	50.59 <sup>189</sup>	15.271 <sup>304</sup>	45.69 <sup>269</sup>	6.120 <sup>310</sup>	9.41 <sup>37</sup>	39.160 <sup>471</sup>	7.67 <sup>71</sup>
Feb. 9.8	44.941 <sup>297</sup>	48.70 <sup>147</sup>	15.575 <sup>321</sup>	43.60 <sup>159</sup>	6.430 <sup>321</sup>	9.78 <sup>39</sup>	39.631 <sup>491</sup>	6.96 <sup>42</sup>
19.8	45.238 <sup>304</sup>	47.23 <sup>98</sup>	15.896 <sup>331</sup>	42.01 <sup>104</sup>	6.751 <sup>326</sup>	10.17 <sup>39</sup>	40.122 <sup>502</sup>	6.54 <sup>14</sup>
29.8	45.542 <sup>305</sup>	46.25 <sup>46</sup>	16.227 <sup>333</sup>	40.97 <sup>44</sup>	7.077 <sup>325</sup>	10.56 <sup>34</sup>	40.624 <sup>504</sup>	6.40 <sup>13</sup>
März 10.7	45.847 <sup>298</sup>	45.79 <sup>5</sup>	16.560 <sup>327</sup>	40.53 <sup>15</sup>	7.402 <sup>321</sup>	10.90 <sup>30</sup>	41.128 <sup>498</sup>	6.53 <sup>40</sup>
20.7	46.145 <sup>288</sup>	45.84 <sup>57</sup>	16.887 <sup>315</sup>	40.68 <sup>74</sup>	7.723 <sup>311</sup>	11.20 <sup>25</sup>	41.626 <sup>484</sup>	6.93 <sup>65</sup>
30.7	46.433 <sup>273</sup>	46.41 <sup>105</sup>	17.202 <sup>296</sup>	41.42 <sup>129</sup>	8.034 <sup>299</sup>	11.45 <sup>20</sup>	42.110 <sup>464</sup>	7.58 <sup>88</sup>
Apr. 9.7	46.706 <sup>254</sup>	47.46 <sup>147</sup>	17.498 <sup>273</sup>	42.71 <sup>176</sup>	8.333 <sup>283</sup>	11.65 <sup>14</sup>	42.574 <sup>438</sup>	8.46 <sup>110</sup>
19.6	46.960 <sup>230</sup>	48.93 <sup>185</sup>	17.771 <sup>245</sup>	44.47 <sup>218</sup>	8.616 <sup>263</sup>	11.79 <sup>11</sup>	43.012 <sup>405</sup>	9.56 <sup>129</sup>
29.6	47.190 <sup>202</sup>	50.78 <sup>212</sup>	18.016 <sup>213</sup>	46.65 <sup>251</sup>	8.879 <sup>240</sup>	11.90 <sup>9</sup>	43.417 <sup>366</sup>	10.85 <sup>145</sup>
Mai 9.6	47.392 <sup>172</sup>	52.90 <sup>234</sup>	18.229 <sup>175</sup>	49.16 <sup>275</sup>	9.119 <sup>214</sup>	11.99 <sup>9</sup>	43.783 <sup>321</sup>	12.30 <sup>161</sup>
19.6	47.564 <sup>139</sup>	55.24 <sup>247</sup>	18.404 <sup>136</sup>	51.91 <sup>289</sup>	9.333 <sup>182</sup>	12.08 <sup>8</sup>	44.104 <sup>269</sup>	13.91 <sup>171</sup>
29.5	47.703 <sup>102</sup>	57.71 <sup>251</sup>	18.540 <sup>94</sup>	54.80 <sup>294</sup>	9.515 <sup>148</sup>	12.16 <sup>10</sup>	44.373 <sup>211</sup>	15.62 <sup>179</sup>
Juni 8.5	47.805 <sup>63</sup>	60.22 <sup>250</sup>	18.634 <sup>49</sup>	57.74 <sup>291</sup>	9.663 <sup>110</sup>	12.26 <sup>12</sup>	44.584 <sup>149</sup>	17.41 <sup>183</sup>
18.5	47.868 <sup>23</sup>	62.72 <sup>240</sup>	18.683 <sup>4</sup>	60.65 <sup>280</sup>	9.773 <sup>69</sup>	12.38 <sup>13</sup>	44.733 <sup>84</sup>	19.24 <sup>181</sup>
28.4	47.891 <sup>17</sup>	65.12 <sup>224</sup>	18.687 <sup>41</sup>	63.45 <sup>262</sup>	9.842 <sup>27</sup>	12.51 <sup>14</sup>	44.817 <sup>16</sup>	21.05 <sup>174</sup>
Juli 8.4	47.874 <sup>56</sup>	67.36 <sup>204</sup>	18.646 <sup>86</sup>	66.07 <sup>237</sup>	9.869 <sup>16</sup>	12.65 <sup>14</sup>	44.833 <sup>51</sup>	22.79 <sup>163</sup>
18.4	47.818 <sup>95</sup>	69.40 <sup>179</sup>	18.560 <sup>127</sup>	68.44 <sup>208</sup>	9.853 <sup>58</sup>	12.79 <sup>13</sup>	44.782 <sup>118</sup>	24.42 <sup>146</sup>
28.4	47.723 <sup>131</sup>	71.19 <sup>150</sup>	18.433 <sup>165</sup>	70.52 <sup>173</sup>	9.795 <sup>97</sup>	12.92 <sup>9</sup>	44.664 <sup>177</sup>	25.88 <sup>124</sup>
Aug. 7.3	47.592 <sup>160</sup>	72.69 <sup>118</sup>	18.268 <sup>198</sup>	72.25 <sup>136</sup>	9.698 <sup>131</sup>	13.01 <sup>4</sup>	44.487 <sup>231</sup>	27.12 <sup>96</sup>
17.3	47.432 <sup>186</sup>	73.87 <sup>84</sup>	18.070 <sup>224</sup>	73.61 <sup>94</sup>	9.567 <sup>160</sup>	13.05 <sup>2</sup>	44.256 <sup>275</sup>	28.08 <sup>65</sup>
27.3	47.246 <sup>203</sup>	74.71 <sup>48</sup>	17.846 <sup>243</sup>	74.55 <sup>52</sup>	9.407 <sup>181</sup>	13.03 <sup>9</sup>	43.981 <sup>305</sup>	28.73 <sup>29</sup>
Sept. 6.3	47.043 <sup>212</sup>	75.19 <sup>12</sup>	17.603 <sup>253</sup>	75.07 <sup>7</sup>	9.226 <sup>192</sup>	12.94 <sup>18</sup>	43.676 <sup>323</sup>	29.02 <sup>7</sup>
16.2	46.831 <sup>212</sup>	75.31 <sup>27</sup>	17.350 <sup>252</sup>	75.14 <sup>37</sup>	9.034 <sup>192</sup>	12.76 <sup>25</sup>	43.353 <sup>323</sup>	28.95 <sup>45</sup>
26.2	46.619 <sup>202</sup>	75.04 <sup>64</sup>	17.098 <sup>241</sup>	74.77 <sup>82</sup>	8.842 <sup>183</sup>	12.51 <sup>32</sup>	43.030 <sup>307</sup>	28.50 <sup>81</sup>
Okt. 6.2	46.417 <sup>183</sup>	74.40 <sup>102</sup>	16.857 <sup>221</sup>	73.95 <sup>127</sup>	8.659 <sup>162</sup>	12.19 <sup>38</sup>	42.723 <sup>275</sup>	27.69 <sup>116</sup>
16.1	46.234 <sup>154</sup>	73.38 <sup>139</sup>	16.636 <sup>189</sup>	72.68 <sup>168</sup>	8.497 <sup>130</sup>	11.81 <sup>41</sup>	42.448 <sup>226</sup>	26.53 <sup>146</sup>
26.1	46.080 <sup>116</sup>	71.99 <sup>172</sup>	16.447 <sup>150</sup>	71.00 <sup>209</sup>	8.367 <sup>91</sup>	11.40 <sup>41</sup>	42.222 <sup>166</sup>	25.07 <sup>170</sup>
Nov. 5.1	45.964 <sup>73</sup>	70.27 <sup>205</sup>	16.297 <sup>102</sup>	68.91 <sup>244</sup>	8.276 <sup>43</sup>	10.99 <sup>38</sup>	42.056 <sup>92</sup>	23.37 <sup>187</sup>
15.1	45.891 <sup>24</sup>	68.22 <sup>233</sup>	16.195 <sup>49</sup>	66.47 <sup>274</sup>	8.233 <sup>9</sup>	10.61 <sup>32</sup>	41.964 <sup>14</sup>	21.50 <sup>198</sup>
25.0	45.867 <sup>26</sup>	65.89 <sup>254</sup>	16.146 <sup>7</sup>	63.73 <sup>299</sup>	8.242 <sup>61</sup>	10.29 <sup>24</sup>	41.950 <sup>69</sup>	19.52 <sup>200</sup>
Dez. 5.0	45.893 <sup>78</sup>	63.35 <sup>270</sup>	16.153 <sup>63</sup>	60.74 <sup>314</sup>	8.303 <sup>115</sup>	10.05 <sup>12</sup>	42.019 <sup>151</sup>	17.52 <sup>195</sup>
15.0	45.971 <sup>127</sup>	60.65 <sup>278</sup>	16.216 <sup>119</sup>	57.60 <sup>320</sup>	8.418 <sup>163</sup>	9.93 <sup>1</sup>	42.170 <sup>229</sup>	15.57 <sup>182</sup>
25.0	46.098 <sup>172</sup>	57.87 <sup>276</sup>	16.335 <sup>171</sup>	54.40 <sup>316</sup>	8.581 <sup>208</sup>	9.92 <sup>11</sup>	42.399 <sup>299</sup>	13.75 <sup>165</sup>
34.9	46.270	55.11	16.506	51.24	8.789	10.03	42.698	12.10
Mittl. Ort	44.702	57.55	15.608	54.74	5.658	15.28	38.730	21.27
sec δ, tg δ	1.103	+0.465	1.250	+0.751	1.103	-0.465	1.764	-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.
1920	17 <sup>h</sup> 23 <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. 0.9	51.39 <sup>38</sup>	57.42 <sup>182</sup>	38.632 <sup>300</sup>	42.56 <sup>129</sup>	9.971 <sup>250</sup>	40.55 <sup>61</sup>	35.642 <sup>194</sup>	36.01 <sup>339</sup>
10.9	51.77 <sup>43</sup>	55.60 <sup>156</sup>	38.932 <sup>348</sup>	41.27 <sup>108</sup>	10.221 <sup>290</sup>	39.94 <sup>46</sup>	35.836 <sup>254</sup>	32.62 <sup>317</sup>
20.9	52.20 <sup>50</sup>	54.04 <sup>127</sup>	39.280 <sup>387</sup>	40.19 <sup>85</sup>	10.511 <sup>320</sup>	39.48 <sup>30</sup>	36.090 <sup>306</sup>	29.45 <sup>282</sup>
30.9	52.70 <sup>52</sup>	52.77 <sup>94</sup>	39.667 <sup>415</sup>	39.34 <sup>61</sup>	10.831 <sup>342</sup>	39.18 <sup>17</sup>	36.396 <sup>347</sup>	26.63 <sup>236</sup>
Feb. 9.8	53.22 <sup>56</sup>	51.83 <sup>62</sup>	40.082 <sup>433</sup>	38.73 <sup>36</sup>	11.173 <sup>357</sup>	39.01 <sup>5</sup>	36.743 <sup>380</sup>	24.27 <sup>182</sup>
19.8	53.78 <sup>57</sup>	51.21 <sup>30</sup>	40.515 <sup>444</sup>	38.37 <sup>14</sup>	11.530 <sup>364</sup>	38.96 <sup>7</sup>	37.123 <sup>400</sup>	22.45 <sup>122</sup>
29.8	54.35 <sup>58</sup>	50.91 <sup>3</sup>	40.959 <sup>447</sup>	38.23 <sup>8</sup>	11.894 <sup>367</sup>	39.03 <sup>16</sup>	37.523 <sup>409</sup>	21.23 <sup>57</sup>
März 10.8	54.93 <sup>57</sup>	50.94 <sup>33</sup>	41.406 <sup>442</sup>	38.31 <sup>30</sup>	12.261 <sup>363</sup>	39.19 <sup>24</sup>	37.932 <sup>408</sup>	20.66 <sup>9</sup>
20.7	55.50 <sup>55</sup>	51.27 <sup>62</sup>	41.848 <sup>432</sup>	38.61 <sup>49</sup>	12.624 <sup>355</sup>	39.43 <sup>31</sup>	38.340 <sup>396</sup>	20.75 <sup>75</sup>
30.7	56.05 <sup>54</sup>	51.89 <sup>91</sup>	42.280 <sup>417</sup>	39.10 <sup>68</sup>	12.979 <sup>344</sup>	39.74 <sup>39</sup>	38.736 <sup>376</sup>	21.50 <sup>135</sup>
Apr. 9.7	56.59 <sup>50</sup>	52.80 <sup>117</sup>	42.697 <sup>394</sup>	39.78 <sup>86</sup>	13.323 <sup>326</sup>	40.13 <sup>45</sup>	39.112 <sup>345</sup>	22.85 <sup>190</sup>
19.6	57.09 <sup>47</sup>	53.97 <sup>140</sup>	43.091 <sup>368</sup>	40.64 <sup>102</sup>	13.649 <sup>307</sup>	40.58 <sup>51</sup>	39.457 <sup>309</sup>	24.75 <sup>238</sup>
29.6	57.56 <sup>42</sup>	55.37 <sup>160</sup>	43.459 <sup>336</sup>	41.66 <sup>116</sup>	13.956 <sup>280</sup>	41.09 <sup>59</sup>	39.766 <sup>264</sup>	27.13 <sup>276</sup>
Mai 9.6	57.98 <sup>37</sup>	56.97 <sup>178</sup>	43.795 <sup>296</sup>	42.82 <sup>130</sup>	14.236 <sup>251</sup>	41.68 <sup>65</sup>	40.030 <sup>215</sup>	29.89 <sup>304</sup>
19.6	58.35 <sup>31</sup>	58.75 <sup>192</sup>	44.091 <sup>253</sup>	44.12 <sup>139</sup>	14.487 <sup>216</sup>	42.33 <sup>71</sup>	40.245 <sup>161</sup>	32.93 <sup>323</sup>
29.5	58.66 <sup>25</sup>	60.67 <sup>201</sup>	44.344 <sup>203</sup>	45.51 <sup>148</sup>	14.703 <sup>177</sup>	43.04 <sup>76</sup>	40.406 <sup>103</sup>	36.16 <sup>332</sup>
Juni 8.5	58.91 <sup>17</sup>	62.68 <sup>207</sup>	44.547 <sup>149</sup>	46.99 <sup>151</sup>	14.880 <sup>134</sup>	43.80 <sup>80</sup>	40.509 <sup>44</sup>	39.48 <sup>331</sup>
18.5	59.08 <sup>9</sup>	64.75 <sup>206</sup>	44.696 <sup>91</sup>	48.50 <sup>152</sup>	15.014 <sup>87</sup>	44.60 <sup>81</sup>	40.553 <sup>16</sup>	42.79 <sup>321</sup>
28.5	59.17 <sup>2</sup>	66.81 <sup>199</sup>	44.787 <sup>32</sup>	50.02 <sup>149</sup>	15.101 <sup>38</sup>	45.41 <sup>81</sup>	40.537 <sup>76</sup>	46.00 <sup>302</sup>
Juli 8.4	59.19 <sup>7</sup>	68.80 <sup>188</sup>	44.819 <sup>29</sup>	51.51 <sup>139</sup>	15.139 <sup>11</sup>	46.22 <sup>77</sup>	40.461 <sup>134</sup>	49.02 <sup>278</sup>
18.4	59.12 <sup>13</sup>	70.68 <sup>169</sup>	44.790 <sup>88</sup>	52.90 <sup>127</sup>	15.128 <sup>59</sup>	46.99 <sup>71</sup>	40.327 <sup>187</sup>	51.80 <sup>245</sup>
28.4	58.99 <sup>21</sup>	72.37 <sup>145</sup>	44.702 <sup>143</sup>	54.17 <sup>108</sup>	15.069 <sup>105</sup>	47.70 <sup>60</sup>	40.140 <sup>237</sup>	54.25 <sup>208</sup>
Aug. 7.3	58.78 <sup>27</sup>	73.82 <sup>115</sup>	44.559 <sup>191</sup>	55.25 <sup>86</sup>	14.964 <sup>146</sup>	48.30 <sup>48</sup>	39.903 <sup>280</sup>	56.33 <sup>165</sup>
17.3	58.51 <sup>32</sup>	74.97 <sup>80</sup>	44.368 <sup>232</sup>	56.11 <sup>59</sup>	14.818 <sup>179</sup>	48.78 <sup>32</sup>	39.623 <sup>314</sup>	57.98 <sup>121</sup>
27.3	58.19 <sup>36</sup>	75.77 <sup>43</sup>	44.136 <sup>262</sup>	56.70 <sup>30</sup>	14.639 <sup>205</sup>	49.10 <sup>13</sup>	39.309 <sup>339</sup>	59.19 <sup>72</sup>
Sept. 6.3	57.83 <sup>38</sup>	76.20 <sup>1</sup>	43.874 <sup>279</sup>	57.00 <sup>3</sup>	14.434 <sup>220</sup>	49.23 <sup>6</sup>	38.970 <sup>354</sup>	59.91 <sup>23</sup>
16.2	57.45 <sup>38</sup>	76.21 <sup>42</sup>	43.595 <sup>281</sup>	56.97 <sup>35</sup>	14.214 <sup>222</sup>	49.17 <sup>27</sup>	38.616 <sup>356</sup>	60.14 <sup>29</sup>
26.2	57.07 <sup>36</sup>	75.79 <sup>82</sup>	43.314 <sup>270</sup>	56.62 <sup>66</sup>	13.992 <sup>214</sup>	48.90 <sup>46</sup>	38.260 <sup>347</sup>	59.85 <sup>79</sup>
Okt. 6.2	56.71 <sup>33</sup>	74.97 <sup>121</sup>	43.044 <sup>242</sup>	55.96 <sup>97</sup>	13.778 <sup>192</sup>	48.44 <sup>65</sup>	37.913 <sup>325</sup>	59.06 <sup>130</sup>
16.2	56.38 <sup>28</sup>	73.76 <sup>155</sup>	42.802 <sup>201</sup>	54.99 <sup>122</sup>	13.586 <sup>158</sup>	47.79 <sup>79</sup>	37.588 <sup>291</sup>	57.76 <sup>178</sup>
26.1	56.10 <sup>21</sup>	72.21 <sup>185</sup>	42.601 <sup>148</sup>	53.77 <sup>145</sup>	13.428 <sup>115</sup>	47.00 <sup>90</sup>	37.297 <sup>246</sup>	55.98 <sup>224</sup>
Nov. 5.1	55.89 <sup>12</sup>	70.36 <sup>206</sup>	42.453 <sup>85</sup>	52.32 <sup>159</sup>	13.313 <sup>63</sup>	46.10 <sup>99</sup>	37.051 <sup>191</sup>	53.74 <sup>264</sup>
15.1	55.77 <sup>3</sup>	68.30 <sup>220</sup>	42.368 <sup>15</sup>	50.73 <sup>168</sup>	13.250 <sup>6</sup>	45.11 <sup>100</sup>	36.860 <sup>128</sup>	51.10 <sup>299</sup>
25.0	55.74 <sup>5</sup>	66.10 <sup>226</sup>	42.353 <sup>58</sup>	49.05 <sup>170</sup>	13.244 <sup>53</sup>	44.11 <sup>98</sup>	36.732 <sup>60</sup>	48.11 <sup>327</sup>
Dez. 5.0	55.79 <sup>15</sup>	63.84 <sup>222</sup>	42.411 <sup>130</sup>	47.35 <sup>165</sup>	13.297 <sup>113</sup>	43.13 <sup>91</sup>	36.672 <sup>12</sup>	44.84 <sup>346</sup>
15.0	55.94 <sup>25</sup>	61.62 <sup>212</sup>	42.541 <sup>199</sup>	45.70 <sup>155</sup>	13.410 <sup>169</sup>	42.22 <sup>80</sup>	36.684 <sup>83</sup>	41.38 <sup>353</sup>
25.0	56.19 <sup>32</sup>	59.50 <sup>194</sup>	42.740 <sup>262</sup>	44.15 <sup>139</sup>	13.579 <sup>219</sup>	41.42 <sup>68</sup>	36.767 <sup>153</sup>	37.85 <sup>350</sup>
34.9	56.51	57.56	43.002	42.76	13.798	40.74	36.920	34.35
Mittl. Ort sec $\delta$ , tg $\delta$	52.38 2.038	67.40 -1.776	39.257 1.550	51.59 -1.184	10.406 1.253	48.31 -0.755	37.462 1.637	36.23 +1.297

Mittlere Zeit Greenw.	656) α Ophiuchi		654) θ Scorpii		658) ε Serpentis		663) ι Herculis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	17 <sup>h</sup> 31 <sup>m</sup>	+12° 36'	17 <sup>h</sup> 31 <sup>m</sup>	-42° 56'	17 <sup>h</sup> 32 <sup>m</sup>	-15° 20'	17 <sup>h</sup> 37 <sup>m</sup>	+46° 2'
Jan. 1.0	12.639 <sup>184</sup>	64.72 <sup>215</sup>	33.525 <sup>265</sup>	46.04 <sup>96</sup>	59.894 <sup>205</sup>	52.28 <sup>64</sup>	10.895 <sup>176</sup>	54.21 <sup>330</sup>
10.9	12.823 <sup>218</sup>	62.57 <sup>206</sup>	33.790 <sup>308</sup>	45.08 <sup>79</sup>	60.099 <sup>238</sup>	52.92 <sup>67</sup>	11.071 <sup>229</sup>	50.91 <sup>310</sup>
20.9	13.041 <sup>245</sup>	60.51 <sup>187</sup>	34.098 <sup>342</sup>	44.29 <sup>61</sup>	60.337 <sup>263</sup>	53.59 <sup>68</sup>	11.300 <sup>274</sup>	47.81 <sup>279</sup>
30.9	13.286 <sup>265</sup>	58.64 <sup>162</sup>	34.440 <sup>367</sup>	43.68 <sup>43</sup>	60.600 <sup>283</sup>	54.27 <sup>63</sup>	11.574 <sup>312</sup>	45.02 <sup>236</sup>
Feb. 9.8	13.551 <sup>279</sup>	57.02 <sup>130</sup>	34.807 <sup>384</sup>	43.25 <sup>25</sup>	60.883 <sup>295</sup>	54.90 <sup>55</sup>	11.886 <sup>339</sup>	42.66 <sup>186</sup>
19.8	13.830 <sup>287</sup>	55.72 <sup>92</sup>	35.191 <sup>394</sup>	43.00 <sup>9</sup>	61.178 <sup>302</sup>	55.45 <sup>45</sup>	12.225 <sup>358</sup>	40.80 <sup>128</sup>
29.8	14.117 <sup>290</sup>	54.80 <sup>52</sup>	35.585 <sup>397</sup>	42.91 <sup>7</sup>	61.480 <sup>304</sup>	55.90 <sup>30</sup>	12.583 <sup>368</sup>	39.52 <sup>65</sup>
März 10.8	14.407 <sup>288</sup>	54.28 <sup>8</sup>	35.982 <sup>394</sup>	42.98 <sup>21</sup>	61.784 <sup>302</sup>	56.20 <sup>16</sup>	12.951 <sup>368</sup>	38.87 <sup>2</sup>
20.7	14.695 <sup>282</sup>	54.20 <sup>33</sup>	36.376 <sup>386</sup>	43.19 <sup>35</sup>	62.086 <sup>296</sup>	56.36 <sup>1</sup>	13.319 <sup>360</sup>	38.85 <sup>62</sup>
30.7	14.977 <sup>271</sup>	54.53 <sup>74</sup>	36.762 <sup>374</sup>	43.54 <sup>47</sup>	62.382 <sup>286</sup>	56.37 <sup>14</sup>	13.679 <sup>344</sup>	39.47 <sup>122</sup>
Apr. 9.7	15.248 <sup>257</sup>	55.27 <sup>110</sup>	37.136 <sup>356</sup>	44.01 <sup>58</sup>	62.668 <sup>274</sup>	56.23 <sup>27</sup>	14.023 <sup>320</sup>	40.69 <sup>176</sup>
19.7	15.505 <sup>238</sup>	56.37 <sup>140</sup>	37.492 <sup>334</sup>	44.59 <sup>72</sup>	62.942 <sup>257</sup>	55.96 <sup>37</sup>	14.343 <sup>291</sup>	42.45 <sup>223</sup>
29.6	15.743 <sup>217</sup>	57.77 <sup>165</sup>	37.826 <sup>306</sup>	45.31 <sup>82</sup>	63.199 <sup>236</sup>	55.59 <sup>45</sup>	14.634 <sup>255</sup>	44.68 <sup>262</sup>
Mai 9.6	15.960 <sup>191</sup>	59.42 <sup>185</sup>	38.132 <sup>274</sup>	46.13 <sup>92</sup>	63.435 <sup>213</sup>	55.14 <sup>50</sup>	14.889 <sup>214</sup>	47.30 <sup>291</sup>
19.6	16.151 <sup>161</sup>	61.27 <sup>196</sup>	38.406 <sup>235</sup>	47.05 <sup>100</sup>	63.648 <sup>184</sup>	54.64 <sup>53</sup>	15.103 <sup>167</sup>	50.21 <sup>311</sup>
29.5	16.312 <sup>129</sup>	63.23 <sup>202</sup>	38.641 <sup>193</sup>	48.05 <sup>107</sup>	63.832 <sup>152</sup>	54.11 <sup>51</sup>	15.270 <sup>119</sup>	53.32 <sup>321</sup>
Juni 8.5	16.441 <sup>94</sup>	65.25 <sup>200</sup>	38.834 <sup>146</sup>	49.12 <sup>113</sup>	63.984 <sup>117</sup>	53.60 <sup>50</sup>	15.389 <sup>66</sup>	56.53 <sup>321</sup>
18.5	16.535 <sup>56</sup>	67.25 <sup>195</sup>	38.980 <sup>95</sup>	50.25 <sup>114</sup>	64.101 <sup>79</sup>	53.10 <sup>45</sup>	15.455 <sup>14</sup>	59.74 <sup>314</sup>
28.5	16.591 <sup>16</sup>	69.20 <sup>183</sup>	39.075 <sup>42</sup>	51.39 <sup>113</sup>	64.180 <sup>38</sup>	52.65 <sup>41</sup>	15.469 <sup>41</sup>	62.88 <sup>298</sup>
Juli 8.4	16.607 <sup>22</sup>	71.03 <sup>168</sup>	39.117 <sup>13</sup>	52.52 <sup>107</sup>	64.218 <sup>3</sup>	52.24 <sup>35</sup>	15.428 <sup>92</sup>	65.86 <sup>274</sup>
18.4	16.585 <sup>61</sup>	72.71 <sup>149</sup>	39.104 <sup>65</sup>	53.59 <sup>99</sup>	64.215 <sup>43</sup>	51.89 <sup>30</sup>	15.336 <sup>143</sup>	68.60 <sup>245</sup>
28.4	16.524 <sup>98</sup>	74.20 <sup>128</sup>	39.039 <sup>115</sup>	54.58 <sup>85</sup>	64.172 <sup>82</sup>	51.59 <sup>26</sup>	15.193 <sup>188</sup>	71.05 <sup>210</sup>
Aug. 7.4	16.426 <sup>129</sup>	75.48 <sup>104</sup>	38.924 <sup>159</sup>	55.43 <sup>69</sup>	64.090 <sup>116</sup>	51.33 <sup>22</sup>	15.005 <sup>229</sup>	73.15 <sup>171</sup>
17.3	16.297 <sup>156</sup>	76.52 <sup>78</sup>	38.765 <sup>197</sup>	56.12 <sup>48</sup>	63.974 <sup>145</sup>	51.11 <sup>19</sup>	14.776 <sup>262</sup>	74.86 <sup>127</sup>
27.3	16.141 <sup>177</sup>	77.30 <sup>52</sup>	38.568 <sup>225</sup>	56.60 <sup>24</sup>	63.829 <sup>167</sup>	50.92 <sup>16</sup>	14.514 <sup>286</sup>	76.13 <sup>82</sup>
Sept. 6.3	15.964 <sup>188</sup>	77.82 <sup>24</sup>	38.343 <sup>242</sup>	56.84 <sup>0</sup>	63.662 <sup>181</sup>	50.76 <sup>15</sup>	14.228 <sup>302</sup>	76.95 <sup>34</sup>
16.2	15.776 <sup>192</sup>	78.06 <sup>4</sup>	38.101 <sup>245</sup>	56.84 <sup>26</sup>	63.481 <sup>184</sup>	50.61 <sup>12</sup>	13.926 <sup>307</sup>	77.29 <sup>15</sup>
26.2	15.584 <sup>185</sup>	78.02 <sup>33</sup>	37.856 <sup>237</sup>	56.58 <sup>52</sup>	63.297 <sup>177</sup>	50.49 <sup>10</sup>	13.619 <sup>300</sup>	77.14 <sup>64</sup>
Okt. 6.2	15.399 <sup>169</sup>	77.69 <sup>62</sup>	37.619 <sup>213</sup>	56.06 <sup>77</sup>	63.120 <sup>160</sup>	50.39 <sup>7</sup>	13.319 <sup>281</sup>	76.50 <sup>113</sup>
16.2	15.230 <sup>144</sup>	77.07 <sup>91</sup>	37.406 <sup>178</sup>	55.29 <sup>97</sup>	62.960 <sup>134</sup>	50.32 <sup>2</sup>	13.038 <sup>252</sup>	75.37 <sup>160</sup>
26.1	15.086 <sup>110</sup>	76.16 <sup>118</sup>	37.228 <sup>132</sup>	54.32 <sup>113</sup>	62.826 <sup>98</sup>	50.30 <sup>4</sup>	12.786 <sup>213</sup>	73.77 <sup>205</sup>
Nov. 5.1	14.976 <sup>70</sup>	74.98 <sup>146</sup>	37.096 <sup>75</sup>	53.19 <sup>126</sup>	62.728 <sup>55</sup>	50.34 <sup>12</sup>	12.573 <sup>164</sup>	71.72 <sup>246</sup>
15.1	14.906 <sup>25</sup>	73.52 <sup>169</sup>	37.021 <sup>15</sup>	51.93 <sup>131</sup>	62.673 <sup>8</sup>	50.46 <sup>22</sup>	12.409 <sup>108</sup>	69.26 <sup>281</sup>
25.1	14.881 <sup>22</sup>	71.83 <sup>190</sup>	37.006 <sup>50</sup>	50.62 <sup>132</sup>	62.665 <sup>40</sup>	50.68 <sup>33</sup>	12.301 <sup>47</sup>	66.45 <sup>309</sup>
Dez. 5.0	14.903 <sup>70</sup>	69.93 <sup>207</sup>	37.056 <sup>114</sup>	49.30 <sup>127</sup>	62.705 <sup>91</sup>	51.01 <sup>44</sup>	12.254 <sup>15</sup>	63.36 <sup>330</sup>
15.0	14.973 <sup>116</sup>	67.86 <sup>216</sup>	37.170 <sup>176</sup>	48.03 <sup>118</sup>	62.796 <sup>137</sup>	51.45 <sup>53</sup>	12.269 <sup>79</sup>	60.06 <sup>340</sup>
25.0	15.089 <sup>158</sup>	65.70 <sup>219</sup>	37.346 <sup>230</sup>	46.85 <sup>104</sup>	62.933 <sup>179</sup>	51.98 <sup>62</sup>	12.348 <sup>140</sup>	56.66 <sup>339</sup>
34.9	15.247	63.51	37.576	45.81	63.112	52.60	12.488	53.27
Mittl. Ort sec δ, tg δ	13.203 1.025	61.93 +0.224	34.045 1.366	54.26 -0.931	60.265 1.037	57.84 -0.275	12.353 1.441	53.35 +1.037

Mittlere Zeit Greenw.	664) $\omega$ Draconis		661) $\eta$ Pavonis		665) $\beta$ Ophiuchi		667) $\mu$ Herculis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$17^h 37^m$	$+68^\circ 47'$	$17^h 37^m$	$-64^\circ 40'$	$17^h 39^m$	$+4^\circ 35'$	$17^h 43^m$	$+27^\circ 45'$
Jan. 1.0	21.19 <sup>22</sup>	42.47 <sup>349</sup>	51.27 <sup>39</sup>	64.56 <sup>212</sup>	30.701 <sup>181</sup>	62.33 <sup>173</sup>	18.745 <sup>167</sup>	62.04 <sup>279</sup>
10.9	21.41 <sup>33</sup>	38.98 <sup>326</sup>	51.66 <sup>47</sup>	62.44 <sup>187</sup>	30.882 <sup>214</sup>	60.60 <sup>167</sup>	18.912 <sup>206</sup>	59.25 <sup>265</sup>
20.9	21.74 <sup>42</sup>	35.72 <sup>292</sup>	52.13 <sup>53</sup>	60.57 <sup>158</sup>	31.096 <sup>240</sup>	58.93 <sup>153</sup>	19.118 <sup>239</sup>	56.60 <sup>242</sup>
30.9	22.16 <sup>51</sup>	32.80 <sup>246</sup>	52.66 <sup>58</sup>	58.99 <sup>126</sup>	31.336 <sup>260</sup>	57.40 <sup>135</sup>	19.357 <sup>266</sup>	54.18 <sup>207</sup>
Feb. 9.8	22.67 <sup>57</sup>	30.34 <sup>192</sup>	53.24 <sup>62</sup>	57.73 <sup>92</sup>	31.596 <sup>275</sup>	56.05 <sup>109</sup>	19.623 <sup>285</sup>	52.11 <sup>166</sup>
19.8	23.24 <sup>61</sup>	28.42 <sup>129</sup>	53.86 <sup>64</sup>	56.81 <sup>58</sup>	31.871 <sup>283</sup>	54.96 <sup>79</sup>	19.908 <sup>298</sup>	50.45 <sup>118</sup>
29.8	23.85 <sup>64</sup>	27.13 <sup>63</sup>	54.50 <sup>65</sup>	56.23 <sup>22</sup>	32.154 <sup>287</sup>	54.17 <sup>45</sup>	20.206 <sup>305</sup>	49.27 <sup>66</sup>
März 10.8	24.49 <sup>65</sup>	26.50 <sup>5</sup>	55.15 <sup>65</sup>	56.01 <sup>12</sup>	32.441 <sup>286</sup>	53.72 <sup>10</sup>	20.511 <sup>305</sup>	48.61 <sup>11</sup>
20.7	25.14 <sup>63</sup>	26.55 <sup>72</sup>	55.80 <sup>64</sup>	56.13 <sup>45</sup>	32.727 <sup>282</sup>	53.62 <sup>25</sup>	20.816 <sup>301</sup>	48.50 <sup>42</sup>
30.7	25.77 <sup>59</sup>	27.27 <sup>135</sup>	56.44 <sup>62</sup>	56.58 <sup>77</sup>	33.009 <sup>272</sup>	53.87 <sup>58</sup>	21.117 <sup>291</sup>	48.92 <sup>94</sup>
Apr. 9.7	26.36 <sup>55</sup>	28.62 <sup>192</sup>	57.06 <sup>59</sup>	57.35 <sup>107</sup>	33.281 <sup>260</sup>	54.45 <sup>89</sup>	21.408 <sup>275</sup>	49.86 <sup>140</sup>
19.7	26.91 <sup>48</sup>	30.54 <sup>242</sup>	57.65 <sup>55</sup>	58.42 <sup>135</sup>	33.541 <sup>244</sup>	55.34 <sup>114</sup>	21.683 <sup>255</sup>	51.26 <sup>181</sup>
29.6	27.39 <sup>40</sup>	32.96 <sup>283</sup>	58.20 <sup>50</sup>	59.77 <sup>160</sup>	33.785 <sup>225</sup>	56.48 <sup>136</sup>	21.938 <sup>230</sup>	53.07 <sup>215</sup>
Mai 9.6	27.79 <sup>31</sup>	35.79 <sup>313</sup>	58.70 <sup>43</sup>	61.37 <sup>181</sup>	34.010 <sup>200</sup>	57.84 <sup>150</sup>	22.168 <sup>202</sup>	55.22 <sup>240</sup>
19.6	28.10 <sup>21</sup>	38.92 <sup>334</sup>	59.13 <sup>37</sup>	63.18 <sup>199</sup>	34.210 <sup>173</sup>	59.34 <sup>161</sup>	22.370 <sup>168</sup>	57.62 <sup>258</sup>
29.5	28.31 <sup>12</sup>	42.26 <sup>344</sup>	59.50 <sup>30</sup>	65.17 <sup>213</sup>	34.383 <sup>141</sup>	60.95 <sup>164</sup>	22.538 <sup>132</sup>	60.20 <sup>266</sup>
Juni 8.5	28.43 <sup>1</sup>	45.70 <sup>344</sup>	59.80 <sup>22</sup>	67.30 <sup>220</sup>	34.524 <sup>107</sup>	62.59 <sup>164</sup>	22.670 <sup>92</sup>	62.86 <sup>267</sup>
18.5	28.44 <sup>9</sup>	49.14 <sup>336</sup>	60.02 <sup>12</sup>	69.50 <sup>223</sup>	34.631 <sup>70</sup>	64.23 <sup>159</sup>	22.762 <sup>51</sup>	65.53 <sup>262</sup>
28.5	28.35 <sup>20</sup>	52.50 <sup>317</sup>	60.14 <sup>4</sup>	71.73 <sup>220</sup>	34.701 <sup>32</sup>	65.82 <sup>149</sup>	22.813 <sup>6</sup>	68.15 <sup>248</sup>
Juli 8.4	28.15 <sup>28</sup>	55.67 <sup>293</sup>	60.18 <sup>5</sup>	73.93 <sup>209</sup>	34.733 <sup>9</sup>	67.31 <sup>137</sup>	22.819 <sup>36</sup>	70.63 <sup>230</sup>
18.4	27.87 <sup>38</sup>	58.60 <sup>260</sup>	60.13 <sup>15</sup>	76.02 <sup>192</sup>	34.724 <sup>47</sup>	68.68 <sup>121</sup>	22.783 <sup>77</sup>	72.93 <sup>205</sup>
28.4	27.49 <sup>45</sup>	61.20 <sup>223</sup>	59.98 <sup>23</sup>	77.94 <sup>168</sup>	34.677 <sup>84</sup>	69.89 <sup>104</sup>	22.706 <sup>118</sup>	74.98 <sup>178</sup>
Aug. 7.4	27.04 <sup>52</sup>	63.43 <sup>180</sup>	59.75 <sup>29</sup>	79.62 <sup>138</sup>	34.593 <sup>117</sup>	70.93 <sup>86</sup>	22.588 <sup>152</sup>	76.76 <sup>145</sup>
17.3	26.52 <sup>58</sup>	65.23 <sup>133</sup>	59.46 <sup>37</sup>	81.00 <sup>104</sup>	34.476 <sup>145</sup>	71.79 <sup>67</sup>	22.436 <sup>182</sup>	78.21 <sup>111</sup>
27.3	25.94 <sup>62</sup>	66.56 <sup>84</sup>	59.09 <sup>41</sup>	82.04 <sup>63</sup>	34.331 <sup>167</sup>	72.46 <sup>46</sup>	22.254 <sup>205</sup>	79.32 <sup>74</sup>
Sept. 6.3	25.32 <sup>64</sup>	67.40 <sup>32</sup>	58.68 <sup>44</sup>	82.67 <sup>20</sup>	34.164 <sup>180</sup>	72.92 <sup>25</sup>	22.049 <sup>219</sup>	80.06 <sup>35</sup>
16.2	24.68 <sup>65</sup>	67.72 <sup>20</sup>	58.24 <sup>44</sup>	82.87 <sup>25</sup>	33.984 <sup>184</sup>	73.17 <sup>4</sup>	21.830 <sup>225</sup>	80.41 <sup>5</sup>
26.2	24.03 <sup>63</sup>	67.52 <sup>74</sup>	57.80 <sup>43</sup>	82.62 <sup>70</sup>	33.800 <sup>180</sup>	73.21 <sup>18</sup>	21.605 <sup>220</sup>	80.36 <sup>44</sup>
Okt. 6.2	23.40 <sup>60</sup>	66.78 <sup>125</sup>	57.37 <sup>40</sup>	81.92 <sup>114</sup>	33.620 <sup>164</sup>	73.03 <sup>40</sup>	21.385 <sup>205</sup>	79.92 <sup>85</sup>
16.2	22.80 <sup>56</sup>	65.53 <sup>176</sup>	56.97 <sup>34</sup>	80.78 <sup>153</sup>	33.456 <sup>140</sup>	72.63 <sup>62</sup>	21.180 <sup>180</sup>	79.07 <sup>123</sup>
26.1	22.24 <sup>49</sup>	63.77 <sup>223</sup>	56.63 <sup>27</sup>	79.25 <sup>187</sup>	33.316 <sup>109</sup>	72.01 <sup>84</sup>	21.000 <sup>148</sup>	77.84 <sup>162</sup>
Nov. 5.1	21.75 <sup>41</sup>	61.54 <sup>266</sup>	56.36 <sup>18</sup>	77.38 <sup>214</sup>	33.207 <sup>68</sup>	71.17 <sup>107</sup>	20.852 <sup>106</sup>	76.22 <sup>196</sup>
15.1	21.34 <sup>32</sup>	58.88 <sup>304</sup>	56.18 <sup>8</sup>	75.24 <sup>233</sup>	33.139 <sup>25</sup>	70.10 <sup>127</sup>	20.746 <sup>61</sup>	74.26 <sup>227</sup>
25.1	21.02 <sup>20</sup>	55.84 <sup>332</sup>	56.10 <sup>2</sup>	72.91 <sup>243</sup>	33.114 <sup>22</sup>	68.83 <sup>145</sup>	20.685 <sup>11</sup>	71.99 <sup>253</sup>
Dez. 5.0	20.82 <sup>9</sup>	52.52 <sup>352</sup>	56.12 <sup>13</sup>	70.48 <sup>245</sup>	33.136 <sup>69</sup>	67.38 <sup>159</sup>	20.674 <sup>40</sup>	69.46 <sup>273</sup>
15.0	20.73 <sup>3</sup>	49.00 <sup>361</sup>	56.25 <sup>24</sup>	68.03 <sup>238</sup>	33.205 <sup>113</sup>	65.79 <sup>171</sup>	20.714 <sup>90</sup>	66.73 <sup>283</sup>
25.0	20.76 <sup>14</sup>	45.39 <sup>359</sup>	56.49 <sup>33</sup>	65.65 <sup>222</sup>	33.318 <sup>156</sup>	64.08 <sup>174</sup>	20.804 <sup>138</sup>	63.90 <sup>285</sup>
34.9	20.90	41.80	56.82	63.43	33.474	62.34	20.942	61.05
Mittl. Ort sec $\delta$ , tg $\delta$	25.04 2.765	42.23 +2.577	52.60 2.339	74.15 -2.114	31.187 1.003	58.50 +0.080	19.586 1.130	59.72 +0.526



Mittlere Zeit Greenw.	670) ♀ Draconis		671) ♂ Draconis		675) 35 Draconis		672) ♀ Herculis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	17 <sup>h</sup> 43 <sup>m</sup>	+72° 11'	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	16.72 <sub>21</sub>	19.40 <sub>350</sub>	6.537 <sub>161</sub>	67.18 <sub>347</sub>	54.93 <sub>21</sub>	29.50 <sub>346</sub>	29.433 <sub>154</sub>	39.82 <sub>309</sub>
10.9	16.93 <sub>35</sub>	15.90 <sub>329</sub>	6.698 <sub>232</sub>	63.71 <sub>330</sub>	55.14 <sub>40</sub>	26.04 <sub>328</sub>	29.587 <sub>201</sub>	36.73 <sub>294</sub>
20.9	17.28 <sub>47</sub>	12.61 <sub>296</sub>	6.930 <sub>296</sub>	60.41 <sub>299</sub>	55.54 <sub>56</sub>	22.76 <sub>297</sub>	29.788 <sub>240</sub>	33.79 <sub>268</sub>
30.9	17.75 <sub>57</sub>	9.65 <sub>252</sub>	7.226 <sub>349</sub>	57.42 <sub>257</sub>	56.10 <sub>71</sub>	19.79 <sub>256</sub>	30.028 <sub>273</sub>	31.11 <sub>231</sub>
Feb. 9.9	18.32 <sub>65</sub>	7.13 <sub>198</sub>	7.575 <sub>392</sub>	54.85 <sub>206</sub>	56.81 <sub>83</sub>	17.23 <sub>204</sub>	30.301 <sub>299</sub>	28.80 <sub>186</sub>
19.8	18.97 <sub>70</sub>	5.15 <sub>137</sub>	7.967 <sub>424</sub>	52.79 <sub>147</sub>	57.64 <sub>93</sub>	15.19 <sub>146</sub>	30.600 <sub>316</sub>	26.94 <sub>133</sub>
29.8	19.67 <sub>75</sub>	3.78 <sub>71</sub>	8.391 <sub>442</sub>	51.32 <sub>82</sub>	58.57 <sub>97</sub>	13.73 <sub>81</sub>	30.916 <sub>327</sub>	25.61 <sub>77</sub>
März 10.8	20.42 <sub>75</sub>	3.07 <sub>4</sub>	8.833 <sub>449</sub>	50.50 <sub>16</sub>	59.54 <sub>100</sub>	12.92 <sub>15</sub>	31.243 <sub>331</sub>	24.84 <sub>16</sub>
20.7	21.17 <sub>74</sub>	3.03 <sub>63</sub>	9.282 <sub>444</sub>	50.34 <sub>51</sub>	60.54 <sub>95</sub>	12.77 <sub>52</sub>	31.574 <sub>327</sub>	24.68 <sub>43</sub>
30.7	21.91 <sub>70</sub>	3.66 <sub>127</sub>	9.726 <sub>427</sub>	50.85 <sub>115</sub>	61.53 <sub>99</sub>	13.29 <sub>115</sub>	31.901 <sub>317</sub>	25.11 <sub>100</sub>
Apr. 9.7	22.61 <sub>64</sub>	4.93 <sub>184</sub>	10.153 <sub>399</sub>	52.00 <sub>173</sub>	62.48 <sub>86</sub>	14.44 <sub>174</sub>	32.218 <sub>301</sub>	26.11 <sub>153</sub>
19.7	23.25 <sub>57</sub>	6.77 <sub>235</sub>	10.552 <sub>362</sub>	53.73 <sub>224</sub>	63.34 <sub>77</sub>	16.18 <sub>225</sub>	32.519 <sub>279</sub>	27.64 <sub>199</sub>
29.6	23.82 <sub>47</sub>	9.12 <sub>276</sub>	10.914 <sub>316</sub>	55.97 <sub>268</sub>	64.11 <sub>64</sub>	18.43 <sub>267</sub>	32.798 <sub>252</sub>	29.63 <sub>238</sub>
Mai 9.6	24.29 <sub>36</sub>	11.88 <sub>308</sub>	11.230 <sub>263</sub>	58.65 <sub>300</sub>	64.75 <sub>50</sub>	21.10 <sub>301</sub>	33.050 <sub>219</sub>	32.01 <sub>267</sub>
19.6	24.65 <sub>25</sub>	14.96 <sub>330</sub>	11.493 <sub>204</sub>	61.65 <sub>325</sub>	65.25 <sub>34</sub>	24.11 <sub>325</sub>	33.269 <sub>182</sub>	34.68 <sub>288</sub>
29.6	24.90 <sub>14</sub>	18.26 <sub>341</sub>	11.697 <sub>140</sub>	64.90 <sub>338</sub>	65.59 <sub>18</sub>	27.36 <sub>338</sub>	33.451 <sub>140</sub>	37.56 <sub>300</sub>
Juni 8.5	25.04 <sub>0</sub>	21.67 <sub>343</sub>	11.837 <sub>74</sub>	68.28 <sub>342</sub>	65.77 <sub>1</sub>	30.74 <sub>342</sub>	33.591 <sub>96</sub>	40.56 <sub>303</sub>
18.5	25.04 <sub>11</sub>	25.10 <sub>335</sub>	11.911 <sub>5</sub>	71.70 <sub>337</sub>	65.78 <sub>15</sub>	34.16 <sub>336</sub>	33.687 <sub>49</sub>	43.59 <sub>299</sub>
28.5	24.93 <sub>23</sub>	28.45 <sub>318</sub>	11.916 <sub>63</sub>	75.07 <sub>322</sub>	65.63 <sub>32</sub>	37.52 <sub>323</sub>	33.736 <sub>2</sub>	46.58 <sub>286</sub>
Juli 8.4	24.70 <sub>34</sub>	31.63 <sub>295</sub>	11.853 <sub>130</sub>	78.29 <sub>300</sub>	65.31 <sub>47</sub>	40.75 <sub>300</sub>	33.738 <sub>47</sub>	49.44 <sub>266</sub>
18.4	24.36 <sub>45</sub>	34.58 <sub>263</sub>	11.723 <sub>193</sub>	81.29 <sub>271</sub>	64.84 <sub>61</sub>	43.75 <sub>271</sub>	33.691 <sub>93</sub>	52.10 <sub>240</sub>
28.4	23.91 <sub>54</sub>	37.21 <sub>227</sub>	11.530 <sub>251</sub>	84.00 <sub>237</sub>	64.23 <sub>74</sub>	46.46 <sub>236</sub>	33.598 <sub>137</sub>	54.50 <sub>209</sub>
Aug. 7.4	23.37 <sub>63</sub>	39.48 <sub>184</sub>	11.279 <sub>302</sub>	86.37 <sub>197</sub>	63.49 <sub>85</sub>	48.82 <sub>196</sub>	33.461 <sub>175</sub>	56.59 <sub>175</sub>
17.3	22.74 <sub>69</sub>	41.32 <sub>140</sub>	10.977 <sub>345</sub>	88.34 <sub>152</sub>	62.64 <sub>94</sub>	50.78 <sub>153</sub>	33.286 <sub>208</sub>	58.34 <sub>136</sub>
27.3	22.05 <sub>73</sub>	42.72 <sub>90</sub>	10.632 <sub>378</sub>	89.86 <sub>104</sub>	61.70 <sub>102</sub>	52.31 <sub>104</sub>	33.078 <sub>235</sub>	59.70 <sub>94</sub>
Sept. 6.3	21.32 <sub>77</sub>	43.62 <sub>39</sub>	10.254 <sub>399</sub>	90.90 <sub>54</sub>	60.68 <sub>105</sub>	53.35 <sub>55</sub>	32.843 <sub>251</sub>	60.64 <sub>51</sub>
16.3	20.55 <sub>77</sub>	44.01 <sub>13</sub>	9.855 <sub>408</sub>	91.44 <sub>4</sub>	59.63 <sub>107</sub>	53.90 <sub>3</sub>	32.592 <sub>251</sub>	61.15 <sub>5</sub>
26.2	19.78 <sub>77</sub>	43.88 <sub>66</sub>	9.447 <sub>404</sub>	91.48 <sub>50</sub>	58.56 <sub>107</sub>	53.93 <sub>49</sub>	32.334 <sub>256</sub>	61.20 <sub>40</sub>
Okt. 6.2	19.01 <sub>73</sub>	43.22 <sub>119</sub>	9.043 <sub>386</sub>	90.98 <sub>102</sub>	57.49 <sub>103</sub>	53.44 <sub>102</sub>	32.078 <sub>241</sub>	60.80 <sub>85</sub>
16.2	18.28 <sub>68</sub>	42.03 <sub>169</sub>	8.657 <sub>355</sub>	89.96 <sub>153</sub>	56.46 <sub>97</sub>	52.42 <sub>152</sub>	31.837 <sub>218</sub>	59.95 <sub>130</sub>
26.1	17.60 <sub>61</sub>	40.34 <sub>217</sub>	8.302 <sub>312</sub>	88.43 <sub>201</sub>	55.49 <sub>87</sub>	50.90 <sub>200</sub>	31.619 <sub>184</sub>	58.65 <sub>173</sub>
Nov. 5.1	16.99 <sub>51</sub>	38.17 <sub>260</sub>	7.990 <sub>256</sub>	86.42 <sub>245</sub>	54.62 <sub>76</sub>	48.90 <sub>245</sub>	31.435 <sub>142</sub>	56.92 <sub>213</sub>
15.1	16.48 <sub>41</sub>	35.57 <sub>298</sub>	7.734 <sub>192</sub>	83.97 <sub>285</sub>	53.86 <sub>62</sub>	46.45 <sub>284</sub>	31.293 <sub>93</sub>	54.79 <sub>248</sub>
25.1	16.07 <sub>28</sub>	32.59 <sub>328</sub>	7.542 <sub>119</sub>	81.12 <sub>317</sub>	53.24 <sub>46</sub>	43.61 <sub>315</sub>	31.200 <sub>42</sub>	52.31 <sub>277</sub>
Dez. 5.0	15.79 <sub>15</sub>	29.31 <sub>350</sub>	7.423 <sub>43</sub>	77.95 <sub>341</sub>	52.78 <sub>28</sub>	40.46 <sub>339</sub>	31.158 <sub>15</sub>	49.54 <sub>299</sub>
15.0	15.64 <sub>0</sub>	25.81 <sub>360</sub>	7.380 <sub>36</sub>	74.54 <sub>353</sub>	52.50 <sub>9</sub>	37.07 <sub>352</sub>	31.173 <sub>69</sub>	46.55 <sub>312</sub>
25.0	15.64 <sub>13</sub>	22.21 <sub>359</sub>	7.416 <sub>114</sub>	71.01 <sub>355</sub>	52.41 <sub>10</sub>	33.55 <sub>353</sub>	31.242 <sub>122</sub>	43.43 <sub>315</sub>
35.0	15.77	18.62	7.530	67.46	52.51	30.02	31.364	40.28
Mittl. Ort sec 5, tg δ	21.45 3.269	18.53 +3.112	8.713 1.830	65.25 +1.533	61.68 4.437	27.55 +4.323	30.539 1.256	37.22 +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.
1920	$17^{\text{h}} 54^{\text{m}}$	$-9^{\circ} 45'$	$17^{\text{h}} 54^{\text{m}}$	$+51^{\circ} 29'$	$17^{\text{h}} 56^{\text{m}}$	$+2^{\circ} 55'$	$18^{\text{h}} 0^{\text{m}}$	$-30^{\circ} 25'$
Jan. 1.0	36.877 <sup>179</sup>	48.39 <sup>88</sup>	43.112 <sup>155</sup>	54.15 <sup>341</sup>	37.783 <sup>166</sup>	68.06 <sup>159</sup>	39.605 <sup>201</sup>	28.44 <sup>39</sup>
10.9	37.056 <sup>213</sup>	49.27 <sup>88</sup>	43.267 <sup>215</sup>	50.74 <sup>324</sup>	37.949 <sup>200</sup>	66.47 <sup>156</sup>	39.806 <sup>239</sup>	28.05 <sup>31</sup>
20.9	37.269 <sup>240</sup>	50.15 <sup>84</sup>	43.482 <sup>269</sup>	47.50 <sup>295</sup>	38.149 <sup>228</sup>	64.91 <sup>144</sup>	40.045 <sup>272</sup>	27.74 <sup>24</sup>
30.9	37.509 <sup>261</sup>	50.99 <sup>76</sup>	43.751 <sup>316</sup>	44.55 <sup>255</sup>	38.377 <sup>250</sup>	63.47 <sup>126</sup>	40.317 <sup>296</sup>	27.50 <sup>19</sup>
Feb. 9.9	37.770 <sup>277</sup>	51.75 <sup>63</sup>	44.067 <sup>353</sup>	42.00 <sup>205</sup>	38.627 <sup>267</sup>	62.21 <sup>103</sup>	40.613 <sup>315</sup>	27.31 <sup>13</sup>
19.8	38.047 <sup>288</sup>	52.38 <sup>45</sup>	44.420 <sup>380</sup>	39.95 <sup>147</sup>	38.894 <sup>278</sup>	61.18 <sup>74</sup>	40.928 <sup>327</sup>	27.18 <sup>10</sup>
29.8	38.335 <sup>293</sup>	52.83 <sup>27</sup>	44.800 <sup>395</sup>	38.48 <sup>84</sup>	39.172 <sup>284</sup>	60.44 <sup>43</sup>	41.255 <sup>334</sup>	27.08 <sup>8</sup>
März 10.8	38.628 <sup>294</sup>	53.10 <sup>6</sup>	45.195 <sup>402</sup>	37.64 <sup>19</sup>	39.456 <sup>286</sup>	60.01 <sup>10</sup>	41.589 <sup>337</sup>	27.00 <sup>7</sup>
20.7	38.922 <sup>292</sup>	53.16 <sup>15</sup>	45.597 <sup>398</sup>	37.45 <sup>47</sup>	39.742 <sup>284</sup>	59.91 <sup>24</sup>	41.926 <sup>336</sup>	26.93 <sup>6</sup>
30.7	39.214 <sup>286</sup>	53.01 <sup>35</sup>	45.995 <sup>384</sup>	37.92 <sup>109</sup>	40.026 <sup>278</sup>	60.15 <sup>57</sup>	42.262 <sup>329</sup>	26.87 <sup>5</sup>
Apr. 9.7	39.500 <sup>276</sup>	52.66 <sup>53</sup>	46.379 <sup>361</sup>	39.01 <sup>167</sup>	40.304 <sup>268</sup>	60.72 <sup>85</sup>	42.591 <sup>320</sup>	26.82 <sup>3</sup>
19.7	39.776 <sup>262</sup>	52.13 <sup>68</sup>	46.740 <sup>331</sup>	40.68 <sup>218</sup>	40.572 <sup>255</sup>	61.57 <sup>110</sup>	42.911 <sup>306</sup>	26.79 <sup>1</sup>
29.6	40.038 <sup>245</sup>	51.45 <sup>79</sup>	47.071 <sup>293</sup>	42.86 <sup>260</sup>	40.827 <sup>237</sup>	62.67 <sup>131</sup>	43.217 <sup>286</sup>	26.80 <sup>4</sup>
Mai 9.6	40.283 <sup>223</sup>	50.66 <sup>87</sup>	47.364 <sup>247</sup>	45.46 <sup>294</sup>	41.064 <sup>214</sup>	63.98 <sup>146</sup>	43.503 <sup>262</sup>	26.84 <sup>11</sup>
19.6	40.506 <sup>197</sup>	49.79 <sup>90</sup>	47.611 <sup>197</sup>	48.40 <sup>317</sup>	41.278 <sup>188</sup>	65.44 <sup>156</sup>	43.765 <sup>233</sup>	26.95 <sup>16</sup>
29.6	40.703 <sup>166</sup>	48.89 <sup>91</sup>	47.808 <sup>143</sup>	51.57 <sup>331</sup>	41.466 <sup>158</sup>	67.00 <sup>160</sup>	43.998 <sup>199</sup>	27.11 <sup>24</sup>
Juni 8.5	40.869 <sup>133</sup>	47.98 <sup>88</sup>	47.951 <sup>84</sup>	54.88 <sup>335</sup>	41.624 <sup>124</sup>	68.60 <sup>160</sup>	44.197 <sup>159</sup>	27.35 <sup>31</sup>
18.5	41.002 <sup>94</sup>	47.10 <sup>83</sup>	48.035 <sup>24</sup>	58.23 <sup>331</sup>	41.748 <sup>86</sup>	70.20 <sup>154</sup>	44.356 <sup>118</sup>	27.66 <sup>37</sup>
28.5	41.096 <sup>55</sup>	46.27 <sup>77</sup>	48.059 <sup>36</sup>	61.54 <sup>316</sup>	41.834 <sup>48</sup>	71.74 <sup>145</sup>	44.474 <sup>71</sup>	28.03 <sup>41</sup>
Juli 8.4	41.151 <sup>13</sup>	45.50 <sup>67</sup>	48.023 <sup>96</sup>	64.70 <sup>296</sup>	41.882 <sup>7</sup>	73.19 <sup>134</sup>	44.545 <sup>23</sup>	28.44 <sup>46</sup>
18.4	41.164 <sup>27</sup>	44.83 <sup>58</sup>	47.927 <sup>152</sup>	67.66 <sup>268</sup>	41.889 <sup>32</sup>	74.53 <sup>119</sup>	44.568 <sup>23</sup>	28.90 <sup>46</sup>
28.4	41.137 <sup>68</sup>	44.25 <sup>49</sup>	47.775 <sup>205</sup>	70.34 <sup>234</sup>	41.857 <sup>72</sup>	75.72 <sup>102</sup>	44.545 <sup>70</sup>	29.36 <sup>44</sup>
Aug. 7.4	41.069 <sup>103</sup>	43.76 <sup>40</sup>	47.570 <sup>252</sup>	72.68 <sup>195</sup>	41.785 <sup>106</sup>	76.74 <sup>85</sup>	44.475 <sup>112</sup>	29.80 <sup>40</sup>
17.3	40.966 <sup>134</sup>	43.36 <sup>31</sup>	47.318 <sup>292</sup>	74.63 <sup>152</sup>	41.679 <sup>137</sup>	77.59 <sup>67</sup>	44.363 <sup>149</sup>	30.20 <sup>32</sup>
27.3	40.832 <sup>159</sup>	43.05 <sup>22</sup>	47.026 <sup>321</sup>	76.15 <sup>106</sup>	41.542 <sup>161</sup>	78.26 <sup>47</sup>	44.214 <sup>178</sup>	30.52 <sup>23</sup>
Sept. 6.3	40.673 <sup>175</sup>	42.83 <sup>15</sup>	46.705 <sup>342</sup>	77.21 <sup>57</sup>	41.381 <sup>177</sup>	78.73 <sup>28</sup>	44.036 <sup>197</sup>	30.75 <sup>10</sup>
16.3	40.498 <sup>182</sup>	42.68 <sup>7</sup>	46.363 <sup>350</sup>	77.78 <sup>6</sup>	41.204 <sup>183</sup>	79.01 <sup>8</sup>	43.839 <sup>207</sup>	30.85 <sup>2</sup>
26.2	40.316 <sup>179</sup>	42.61 <sup>1</sup>	46.013 <sup>348</sup>	77.84 <sup>45</sup>	41.021 <sup>182</sup>	79.09 <sup>13</sup>	43.632 <sup>205</sup>	30.83 <sup>16</sup>
Okt. 6.2	40.137 <sup>166</sup>	42.62 <sup>10</sup>	45.665 <sup>331</sup>	77.39 <sup>95</sup>	40.839 <sup>169</sup>	78.96 <sup>33</sup>	43.427 <sup>190</sup>	30.67 <sup>28</sup>
16.2	39.971 <sup>143</sup>	42.72 <sup>18</sup>	45.334 <sup>304</sup>	76.44 <sup>146</sup>	40.670 <sup>147</sup>	78.63 <sup>53</sup>	43.237 <sup>165</sup>	30.39 <sup>41</sup>
26.1	39.828 <sup>112</sup>	42.90 <sup>28</sup>	45.030 <sup>264</sup>	74.98 <sup>194</sup>	40.523 <sup>118</sup>	78.10 <sup>75</sup>	43.072 <sup>130</sup>	29.98 <sup>49</sup>
Nov. 5.1	39.716 <sup>72</sup>	43.18 <sup>39</sup>	44.766 <sup>215</sup>	73.04 <sup>237</sup>	40.405 <sup>79</sup>	77.35 <sup>94</sup>	42.942 <sup>86</sup>	29.49 <sup>56</sup>
15.1	39.644 <sup>29</sup>	43.57 <sup>50</sup>	44.551 <sup>158</sup>	70.67 <sup>277</sup>	40.326 <sup>38</sup>	76.41 <sup>114</sup>	42.856 <sup>37</sup>	28.93 <sup>59</sup>
25.1	39.615 <sup>18</sup>	44.07 <sup>62</sup>	44.393 <sup>93</sup>	67.90 <sup>308</sup>	40.288 <sup>8</sup>	75.27 <sup>131</sup>	42.819 <sup>17</sup>	28.34 <sup>59</sup>
Dez. 5.0	39.633 <sup>65</sup>	44.69 <sup>73</sup>	44.300 <sup>25</sup>	64.82 <sup>332</sup>	40.296 <sup>54</sup>	73.96 <sup>146</sup>	42.836 <sup>70</sup>	27.75 <sup>55</sup>
15.0	39.698 <sup>110</sup>	45.42 <sup>81</sup>	44.275 <sup>44</sup>	61.50 <sup>346</sup>	40.350 <sup>99</sup>	72.50 <sup>156</sup>	42.906 <sup>123</sup>	27.20 <sup>50</sup>
25.0	39.808 <sup>153</sup>	46.23 <sup>88</sup>	44.319 <sup>112</sup>	58.04 <sup>348</sup>	40.449 <sup>140</sup>	70.94 <sup>161</sup>	43.029 <sup>170</sup>	26.70 <sup>42</sup>
35.0	39.961	47.11	44.431	54.56	40.589	69.33	43.199	26.28
Mittl. Ort sec $\delta$ , tg $\delta$	37.298 1.015	53.64 -0.172	44.879 1.606	51.86 +1.257	38.274 1.001	63.57 +0.051	40.072 1.160	34.99 -0.587

Mittlere Zeit Greenw.	680) 72 Ophiuchi		681) o Herculis		682) Sagittarii		688) 7 Serpentis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	18 <sup>h</sup> 3 <sup>m</sup>	+9° 32'	18 <sup>h</sup> 4 <sup>m</sup>	+28° 44'	18 <sup>h</sup> 8 <sup>m</sup>	-21° 4'	18 <sup>h</sup> 17 <sup>m</sup>	-2° 54'
Jan. 1.0	32.830 <sub>156</sub>	69.53 <sub>193</sub>	24.419 <sub>145</sub>	65.63 <sub>280</sub>	58.278 <sub>179</sub>	45.81 <sub>13</sub>	9.723 <sub>151</sub>	69.32 <sub>122</sub>
10.9	32.986 <sub>190</sub>	67.60 <sub>187</sub>	24.564 <sub>186</sub>	62.83 <sub>268</sub>	58.457 <sub>214</sub>	45.94 <sub>17</sub>	9.874 <sub>185</sub>	70.54 <sub>120</sub>
20.9	33.176 <sub>220</sub>	65.73 <sub>172</sub>	24.750 <sub>222</sub>	60.15 <sub>246</sub>	58.671 <sub>244</sub>	46.11 <sub>19</sub>	10.059 <sub>215</sub>	71.74 <sub>112</sub>
30.9	33.396 <sub>243</sub>	64.01 <sub>151</sub>	24.972 <sub>251</sub>	57.69 <sub>215</sub>	58.915 <sub>269</sub>	46.30 <sub>18</sub>	10.274 <sub>238</sub>	72.86 <sub>99</sub>
Feb. 9.9	33.639 <sub>262</sub>	62.50 <sub>122</sub>	25.223 <sub>274</sub>	55.54 <sub>175</sub>	59.184 <sub>286</sub>	46.48 <sub>15</sub>	10.512 <sub>257</sub>	73.85 <sub>81</sub>
19.8	33.901 <sub>274</sub>	61.28 <sub>90</sub>	25.497 <sub>292</sub>	53.79 <sub>128</sub>	59.470 <sub>300</sub>	46.63 <sub>7</sub>	10.769 <sub>271</sub>	74.66 <sub>58</sub>
29.8	34.175 <sub>283</sub>	60.38 <sub>51</sub>	25.789 <sub>302</sub>	52.51 <sub>76</sub>	59.770 <sub>307</sub>	46.70 <sub>1</sub>	11.040 <sub>280</sub>	75.24 <sub>32</sub>
März 10.8	34.458 <sub>286</sub>	59.87 <sub>13</sub>	26.091 <sub>307</sub>	51.75 <sub>22</sub>	60.077 <sub>311</sub>	46.71 <sub>9</sub>	11.320 <sub>285</sub>	75.56 <sub>5</sub>
20.8	34.744 <sub>284</sub>	59.74 <sub>28</sub>	26.398 <sub>306</sub>	51.53 <sub>33</sub>	60.388 <sub>311</sub>	46.62 <sub>17</sub>	11.605 <sub>286</sub>	75.61 <sub>23</sub>
30.7	35.028 <sub>280</sub>	60.02 <sub>65</sub>	26.704 <sub>300</sub>	51.86 <sub>86</sub>	60.699 <sub>307</sub>	46.45 <sub>26</sub>	11.891 <sub>284</sub>	75.38 <sub>50</sub>
Apr. 9.7	35.308 <sub>270</sub>	60.67 <sub>101</sub>	27.004 <sub>288</sub>	52.72 <sub>134</sub>	61.006 <sub>299</sub>	46.19 <sub>33</sub>	12.175 <sub>277</sub>	74.88 <sub>75</sub>
19.7	35.578 <sub>258</sub>	61.68 <sub>131</sub>	27.292 <sub>271</sub>	54.06 <sub>177</sub>	61.305 <sub>287</sub>	45.86 <sub>37</sub>	12.452 <sub>267</sub>	74.13 <sub>95</sub>
29.6	35.836 <sub>239</sub>	62.99 <sub>156</sub>	27.563 <sub>249</sub>	55.83 <sub>214</sub>	61.592 <sub>271</sub>	45.49 <sub>40</sub>	12.719 <sub>251</sub>	73.18 <sub>111</sub>
Mai 9.6	36.075 <sub>217</sub>	64.55 <sub>175</sub>	27.812 <sub>221</sub>	57.97 <sub>242</sub>	61.863 <sub>249</sub>	45.09 <sub>40</sub>	12.970 <sub>232</sub>	72.07 <sub>124</sub>
19.6	36.292 <sub>191</sub>	66.30 <sub>188</sub>	28.033 <sub>190</sub>	60.39 <sub>262</sub>	62.112 <sub>223</sub>	44.69 <sub>38</sub>	13.202 <sub>208</sub>	70.83 <sub>131</sub>
29.6	36.483 <sub>159</sub>	68.18 <sub>194</sub>	28.223 <sub>153</sub>	63.01 <sub>274</sub>	62.335 <sub>192</sub>	44.31 <sub>33</sub>	13.410 <sub>179</sub>	69.52 <sub>134</sub>
Juni 8.5	36.642 <sub>125</sub>	70.12 <sub>196</sub>	28.376 <sub>114</sub>	65.75 <sub>277</sub>	62.527 <sub>156</sub>	43.98 <sub>28</sub>	13.589 <sub>145</sub>	68.18 <sub>132</sub>
18.5	36.767 <sub>88</sub>	72.08 <sub>190</sub>	28.490 <sub>72</sub>	68.52 <sub>274</sub>	62.683 <sub>118</sub>	43.70 <sub>21</sub>	13.734 <sub>109</sub>	66.86 <sub>126</sub>
28.5	36.855 <sub>48</sub>	73.98 <sub>181</sub>	28.562 <sub>27</sub>	71.26 <sub>264</sub>	62.801 <sub>74</sub>	43.49 <sub>14</sub>	13.843 <sub>70</sub>	65.60 <sub>118</sub>
Juli 8.5	36.903 <sub>7</sub>	75.79 <sub>168</sub>	28.589 <sub>18</sub>	73.90 <sub>246</sub>	62.875 <sub>31</sub>	43.35 <sub>8</sub>	13.913 <sub>27</sub>	64.42 <sub>107</sub>
18.4	36.910 <sub>33</sub>	77.47 <sub>151</sub>	28.571 <sub>61</sub>	76.36 <sub>224</sub>	62.906 <sub>15</sub>	43.27 <sub>2</sub>	13.940 <sub>13</sub>	63.35 <sub>94</sub>
28.4	36.877 <sub>73</sub>	78.98 <sub>131</sub>	28.510 <sub>103</sub>	78.60 <sub>196</sub>	62.891 <sub>57</sub>	43.25 <sub>2</sub>	13.927 <sub>55</sub>	62.41 <sub>81</sub>
Aug. 7.4	36.804 <sub>108</sub>	80.29 <sub>110</sub>	28.407 <sub>142</sub>	80.56 <sub>165</sub>	62.834 <sub>97</sub>	43.27 <sub>5</sub>	13.872 <sub>91</sub>	61.60 <sub>65</sub>
17.3	36.696 <sub>140</sub>	81.39 <sub>86</sub>	28.265 <sub>174</sub>	82.21 <sub>132</sub>	62.737 <sub>133</sub>	43.32 <sub>6</sub>	13.781 <sub>125</sub>	60.95 <sub>51</sub>
27.3	36.556 <sub>164</sub>	82.25 <sub>62</sub>	28.091 <sub>200</sub>	83.53 <sub>94</sub>	62.604 <sub>161</sub>	43.38 <sub>4</sub>	13.656 <sub>152</sub>	60.44 <sub>37</sub>
Sept. 6.3	36.392 <sub>181</sub>	82.87 <sub>37</sub>	27.891 <sub>218</sub>	84.47 <sub>56</sub>	62.443 <sub>180</sub>	43.42 <sub>3</sub>	13.504 <sub>171</sub>	60.07 <sub>21</sub>
16.3	36.211 <sub>189</sub>	83.24 <sub>11</sub>	27.673 <sub>226</sub>	85.03 <sub>16</sub>	62.263 <sub>190</sub>	43.45 <sub>1</sub>	13.333 <sub>182</sub>	59.86 <sub>7</sub>
26.2	36.022 <sub>188</sub>	83.35 <sub>15</sub>	27.447 <sub>226</sub>	85.19 <sub>25</sub>	62.073 <sub>190</sub>	43.44 <sub>6</sub>	13.151 <sub>182</sub>	59.79 <sub>8</sub>
Okt. 6.2	35.834 <sub>177</sub>	83.20 <sub>41</sub>	27.221 <sub>214</sub>	84.94 <sub>66</sub>	61.883 <sub>178</sub>	43.38 <sub>8</sub>	12.969 <sub>173</sub>	59.87 <sub>22</sub>
16.2	35.657 <sub>156</sub>	82.79 <sub>68</sub>	27.007 <sub>193</sub>	84.28 <sub>107</sub>	61.705 <sub>156</sub>	43.30 <sub>11</sub>	12.796 <sub>154</sub>	60.09 <sub>37</sub>
26.2	35.501 <sub>127</sub>	82.11 <sub>94</sub>	26.814 <sub>163</sub>	83.21 <sub>145</sub>	61.549 <sub>125</sub>	43.19 <sub>13</sub>	12.642 <sub>127</sub>	60.46 <sub>53</sub>
Nov. 5.1	35.374 <sub>91</sub>	81.17 <sub>118</sub>	26.651 <sub>125</sub>	81.76 <sub>183</sub>	61.424 <sub>85</sub>	43.06 <sub>12</sub>	12.515 <sub>91</sub>	60.99 <sub>68</sub>
15.1	35.283 <sub>49</sub>	79.99 <sub>142</sub>	26.526 <sub>81</sub>	79.93 <sub>215</sub>	61.339 <sub>40</sub>	42.94 <sub>10</sub>	12.424 <sub>51</sub>	61.67 <sub>82</sub>
25.1	35.234 <sub>5</sub>	78.57 <sub>162</sub>	26.445 <sub>33</sub>	77.78 <sub>243</sub>	61.299 <sub>8</sub>	42.84 <sub>5</sub>	12.373 <sub>7</sub>	62.49 <sub>97</sub>
Dez. 5.0	35.229 <sub>41</sub>	76.95 <sub>179</sub>	26.412 <sub>17</sub>	75.35 <sub>265</sub>	61.307 <sub>57</sub>	42.79 <sub>1</sub>	12.366 <sub>38</sub>	63.46 <sub>109</sub>
15.0	35.270 <sub>87</sub>	75.16 <sub>190</sub>	26.429 <sub>67</sub>	72.70 <sub>279</sub>	61.364 <sub>106</sub>	42.80 <sub>6</sub>	12.404 <sub>83</sub>	64.55 <sub>118</sub>
25.0	35.357 <sub>129</sub>	73.26 <sub>195</sub>	26.496 <sub>115</sub>	69.91 <sub>284</sub>	61.470 <sub>150</sub>	42.86 <sub>13</sub>	12.487 <sub>124</sub>	65.73 <sub>123</sub>
35.0	35.486	71.31	26.611	67.07	61.620	42.99	12.611	66.96
Mittl. Ort sec δ, tg δ	33.388 1.014	65.14 +0.168	25.289 1.141	61.94 +0.549	58.716 1.072	51.73 -0.386	10.192 1.001	74.56 -0.051

Mittlere Zeit Greenw.	689) $\epsilon$ Sagittarii		690) $\iota$ Herculis		691) $\alpha$ Telescopii		695) $\chi$ Draconis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	18 <sup>h</sup> 18 <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	51.175 <sup>187</sup>	18.95 <sup>72</sup>	16.587 <sup>132</sup>	61.08 <sup>249</sup>	1.771 <sup>210</sup>	43.07 <sup>143</sup>	25.25 <sup>10</sup>	59.61 <sup>353</sup>
11.0	51.362 <sup>230</sup>	18.23 <sup>66</sup>	16.719 <sup>171</sup>	58.59 <sup>241</sup>	1.981 <sup>262</sup>	41.64 <sup>132</sup>	25.35 <sup>24</sup>	56.08 <sup>342</sup>
20.9	51.592 <sup>265</sup>	17.57 <sup>58</sup>	16.890 <sup>205</sup>	56.18 <sup>223</sup>	2.243 <sup>304</sup>	40.32 <sup>120</sup>	25.59 <sup>37</sup>	52.66 <sup>320</sup>
30.9	51.857 <sup>293</sup>	16.99 <sup>51</sup>	17.095 <sup>234</sup>	53.95 <sup>197</sup>	2.547 <sup>339</sup>	39.12 <sup>106</sup>	25.96 <sup>49</sup>	49.46 <sup>284</sup>
Feb. 9.9	52.150 <sup>316</sup>	16.48 <sup>44</sup>	17.329 <sup>256</sup>	51.98 <sup>163</sup>	2.886 <sup>367</sup>	38.06 <sup>89</sup>	26.45 <sup>59</sup>	46.62 <sup>238</sup>
19.8	52.466 <sup>332</sup>	16.04 <sup>38</sup>	17.585 <sup>275</sup>	50.35 <sup>121</sup>	3.253 <sup>387</sup>	37.17 <sup>74</sup>	27.04 <sup>68</sup>	44.24 <sup>182</sup>
29.8	52.798 <sup>342</sup>	15.66 <sup>33</sup>	17.860 <sup>286</sup>	49.14 <sup>75</sup>	3.640 <sup>401</sup>	36.43 <sup>57</sup>	27.72 <sup>73</sup>	42.42 <sup>122</sup>
März 10.8	53.140 <sup>349</sup>	15.33 <sup>27</sup>	18.146 <sup>294</sup>	48.39 <sup>27</sup>	4.041 <sup>410</sup>	35.86 <sup>40</sup>	28.45 <sup>77</sup>	41.20 <sup>55</sup>
20.8	53.489 <sup>351</sup>	15.06 <sup>23</sup>	18.440 <sup>295</sup>	48.12 <sup>24</sup>	4.451 <sup>411</sup>	35.46 <sup>24</sup>	29.22 <sup>77</sup>	40.65 <sup>11</sup>
30.7	53.840 <sup>348</sup>	14.83 <sup>17</sup>	18.735 <sup>293</sup>	48.36 <sup>72</sup>	4.862 <sup>408</sup>	35.22 <sup>7</sup>	29.99 <sup>76</sup>	40.76 <sup>77</sup>
Apr. 9.7	54.188 <sup>340</sup>	14.66 <sup>10</sup>	19.028 <sup>285</sup>	49.08 <sup>117</sup>	5.270 <sup>400</sup>	35.15 <sup>11</sup>	30.75 <sup>72</sup>	41.53 <sup>140</sup>
19.7	54.528 <sup>328</sup>	14.56 <sup>3</sup>	19.313 <sup>272</sup>	50.25 <sup>157</sup>	5.670 <sup>384</sup>	35.26 <sup>29</sup>	31.47 <sup>65</sup>	42.93 <sup>195</sup>
29.7	54.856 <sup>311</sup>	14.53 <sup>6</sup>	19.585 <sup>254</sup>	51.82 <sup>190</sup>	6.054 <sup>364</sup>	35.55 <sup>47</sup>	32.12 <sup>58</sup>	44.88 <sup>243</sup>
Mai 9.6	55.167 <sup>288</sup>	14.59 <sup>15</sup>	19.839 <sup>231</sup>	53.72 <sup>217</sup>	6.418 <sup>336</sup>	36.02 <sup>64</sup>	32.70 <sup>48</sup>	47.31 <sup>284</sup>
19.6	55.455 <sup>259</sup>	14.74 <sup>25</sup>	20.070 <sup>203</sup>	55.89 <sup>237</sup>	6.754 <sup>301</sup>	36.66 <sup>81</sup>	33.18 <sup>38</sup>	50.15 <sup>314</sup>
29.6	55.714 <sup>224</sup>	14.99 <sup>37</sup>	20.273 <sup>171</sup>	58.26 <sup>249</sup>	7.055 <sup>260</sup>	37.47 <sup>96</sup>	33.56 <sup>25</sup>	53.29 <sup>334</sup>
Juni 8.5	55.938 <sup>185</sup>	15.36 <sup>46</sup>	20.444 <sup>133</sup>	60.75 <sup>253</sup>	7.315 <sup>213</sup>	38.43 <sup>109</sup>	33.81 <sup>13</sup>	56.63 <sup>346</sup>
18.5	56.123 <sup>140</sup>	15.82 <sup>55</sup>	20.577 <sup>95</sup>	63.28 <sup>250</sup>	7.528 <sup>160</sup>	39.52 <sup>119</sup>	33.94 <sup>1</sup>	60.09 <sup>347</sup>
28.5	56.263 <sup>93</sup>	16.37 <sup>62</sup>	20.672 <sup>52</sup>	65.78 <sup>241</sup>	7.688 <sup>104</sup>	40.71 <sup>127</sup>	33.95 <sup>12</sup>	63.56 <sup>339</sup>
Juli 8.5	56.356 <sup>43</sup>	16.99 <sup>67</sup>	20.724 <sup>9</sup>	68.19 <sup>227</sup>	7.792 <sup>45</sup>	41.98 <sup>129</sup>	33.83 <sup>25</sup>	66.95 <sup>324</sup>
18.4	56.399 <sup>9</sup>	17.66 <sup>68</sup>	20.733 <sup>35</sup>	70.46 <sup>207</sup>	7.837 <sup>15</sup>	43.27 <sup>128</sup>	33.58 <sup>36</sup>	70.19 <sup>300</sup>
28.4	56.390 <sup>58</sup>	18.34 <sup>68</sup>	20.698 <sup>76</sup>	72.53 <sup>183</sup>	7.822 <sup>74</sup>	44.55 <sup>121</sup>	33.22 <sup>47</sup>	73.19 <sup>271</sup>
Aug. 7.4	56.332 <sup>103</sup>	19.02 <sup>62</sup>	20.622 <sup>115</sup>	74.36 <sup>156</sup>	7.748 <sup>127</sup>	45.76 <sup>109</sup>	32.75 <sup>57</sup>	75.90 <sup>234</sup>
17.4	56.229 <sup>145</sup>	19.64 <sup>54</sup>	20.507 <sup>149</sup>	75.92 <sup>126</sup>	7.621 <sup>176</sup>	46.85 <sup>93</sup>	32.18 <sup>64</sup>	78.24 <sup>193</sup>
27.3	56.084 <sup>179</sup>	20.18 <sup>42</sup>	20.358 <sup>176</sup>	77.18 <sup>94</sup>	7.445 <sup>216</sup>	47.78 <sup>71</sup>	31.54 <sup>72</sup>	80.17 <sup>148</sup>
Sept. 6.3	55.905 <sup>202</sup>	20.60 <sup>28</sup>	20.182 <sup>195</sup>	78.12 <sup>59</sup>	7.229 <sup>244</sup>	48.49 <sup>47</sup>	30.82 <sup>76</sup>	81.65 <sup>100</sup>
16.3	55.703 <sup>216</sup>	20.88 <sup>11</sup>	19.987 <sup>207</sup>	78.71 <sup>25</sup>	6.985 <sup>260</sup>	48.96 <sup>19</sup>	30.06 <sup>79</sup>	82.65 <sup>48</sup>
26.2	55.487 <sup>217</sup>	20.99 <sup>6</sup>	19.780 <sup>208</sup>	78.96 <sup>11</sup>	6.725 <sup>263</sup>	49.15 <sup>9</sup>	29.27 <sup>80</sup>	83.13 <sup>4</sup>
Okt. 6.2	55.270 <sup>206</sup>	20.93 <sup>24</sup>	19.572 <sup>200</sup>	78.85 <sup>48</sup>	6.462 <sup>251</sup>	49.06 <sup>39</sup>	28.47 <sup>78</sup>	83.09 <sup>58</sup>
16.2	55.064 <sup>183</sup>	20.69 <sup>41</sup>	19.372 <sup>181</sup>	78.37 <sup>84</sup>	6.211 <sup>225</sup>	48.67 <sup>68</sup>	27.69 <sup>75</sup>	82.51 <sup>112</sup>
26.2	54.881 <sup>150</sup>	20.28 <sup>55</sup>	19.191 <sup>155</sup>	77.53 <sup>118</sup>	5.986 <sup>186</sup>	47.99 <sup>93</sup>	26.94 <sup>69</sup>	81.39 <sup>163</sup>
Nov. 5.1	54.731 <sup>106</sup>	19.73 <sup>68</sup>	19.036 <sup>120</sup>	76.35 <sup>152</sup>	5.800 <sup>137</sup>	47.06 <sup>114</sup>	26.25 <sup>61</sup>	79.76 <sup>212</sup>
15.1	54.625 <sup>58</sup>	19.05 <sup>75</sup>	18.916 <sup>79</sup>	74.83 <sup>183</sup>	5.663 <sup>79</sup>	45.92 <sup>131</sup>	25.64 <sup>51</sup>	77.64 <sup>257</sup>
25.1	54.567 <sup>4</sup>	18.30 <sup>80</sup>	18.837 <sup>35</sup>	73.00 <sup>209</sup>	5.584 <sup>17</sup>	44.61 <sup>143</sup>	25.13 <sup>40</sup>	75.07 <sup>295</sup>
Dez. 5.1	54.563 <sup>51</sup>	17.50 <sup>82</sup>	18.802 <sup>12</sup>	70.91 <sup>230</sup>	5.567 <sup>49</sup>	43.18 <sup>149</sup>	24.73 <sup>27</sup>	72.12 <sup>325</sup>
15.0	54.614 <sup>105</sup>	16.68 <sup>79</sup>	18.814 <sup>58</sup>	68.61 <sup>245</sup>	5.616 <sup>112</sup>	41.69 <sup>149</sup>	24.46 <sup>13</sup>	68.87 <sup>346</sup>
25.0	54.719 <sup>156</sup>	15.89 <sup>74</sup>	18.872 <sup>104</sup>	66.16 <sup>251</sup>	5.728 <sup>172</sup>	40.20 <sup>145</sup>	24.33 <sup>1</sup>	65.41 <sup>356</sup>
35.0	54.875	15.15	18.976	63.65	5.900	38.75	24.34	61.85
Mittl. Ort sec $\delta$ , tg $\delta$	51.713 1.212	25.25 -0.685	17.313 1.076	56.27 +0.399	2.504 1.440	49.69 -1.036	30.03 3.362	54.51 +3.210

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.
1920	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	42.249 <sub>107</sub>	19.25 <sub>350</sub>	39.17 <sub>34</sub>	49.68 <sub>277</sub>	12.652 <sub>106</sub>	36.02 <sub>309</sub>	12.411 <sub>110</sub>	13.56 <sub>239</sub>
11.0	42.356 <sub>185</sub>	15.75 <sub>339</sub>	39.51 <sub>45</sub>	46.91 <sub>263</sub>	12.758 <sub>155</sub>	32.93 <sub>300</sub>	12.521 <sub>149</sub>	11.17 <sub>233</sub>
20.9	42.541 <sub>256</sub>	12.36 <sub>315</sub>	39.96 <sub>55</sub>	44.28 <sub>242</sub>	12.913 <sub>199</sub>	29.93 <sub>282</sub>	12.670 <sub>184</sub>	8.84 <sub>219</sub>
30.9	42.797 <sub>319</sub>	9.21 <sub>280</sub>	40.51 <sub>65</sub>	41.86 <sub>216</sub>	13.112 <sub>238</sub>	27.11 <sub>251</sub>	12.854 <sub>214</sub>	6.65 <sub>195</sub>
Feb. 9.9	43.116 <sub>373</sub>	6.41 <sub>233</sub>	41.16 <sub>72</sub>	39.70 <sub>186</sub>	13.350 <sub>271</sub>	24.60 <sub>210</sub>	13.068 <sub>240</sub>	4.70 <sub>164</sub>
19.9	43.489 <sub>415</sub>	4.08 <sub>179</sub>	41.88 <sub>77</sub>	37.84 <sub>151</sub>	13.621 <sub>297</sub>	22.50 <sub>163</sub>	13.308 <sub>261</sub>	3.06 <sub>124</sub>
29.8	43.904 <sub>445</sub>	2.29 <sub>116</sub>	42.65 <sub>82</sub>	36.33 <sub>116</sub>	13.918 <sub>317</sub>	20.87 <sub>107</sub>	13.569 <sub>276</sub>	1.82 <sub>81</sub>
März 10.8	44.349 <sub>463</sub>	1.13 <sub>51</sub>	43.47 <sub>84</sub>	35.17 <sub>77</sub>	14.235 <sub>329</sub>	19.80 <sub>49</sub>	13.845 <sub>287</sub>	1.01 <sub>34</sub>
20.8	44.812 <sub>468</sub>	0.62 <sub>15</sub>	44.31 <sub>85</sub>	34.40 <sub>40</sub>	14.564 <sub>335</sub>	19.31 <sub>12</sub>	14.132 <sub>292</sub>	0.67 <sub>15</sub>
30.7	45.280 <sub>461</sub>	0.77 <sub>81</sub>	45.16 <sub>85</sub>	34.00 <sub>0</sub>	14.899 <sub>333</sub>	19.43 <sub>70</sub>	14.424 <sub>294</sub>	0.82 <sub>62</sub>
Apr. 9.7	45.741 <sub>440</sub>	1.58 <sub>143</sub>	46.01 <sub>83</sub>	34.00 <sub>38</sub>	15.232 <sub>326</sub>	20.13 <sub>127</sub>	14.718 <sub>290</sub>	1.44 <sub>108</sub>
19.7	46.181 <sub>409</sub>	3.01 <sub>198</sub>	46.84 <sub>79</sub>	34.38 <sub>76</sub>	15.558 <sub>310</sub>	21.40 <sub>177</sub>	15.008 <sub>281</sub>	2.52 <sub>148</sub>
29.7	46.590 <sub>368</sub>	4.99 <sub>246</sub>	47.63 <sub>75</sub>	35.14 <sub>112</sub>	15.868 <sub>289</sub>	23.17 <sub>221</sub>	15.289 <sub>266</sub>	4.00 <sub>182</sub>
Mai 9.6	46.958 <sub>317</sub>	7.45 <sub>286</sub>	48.38 <sub>69</sub>	36.26 <sub>144</sub>	16.157 <sub>260</sub>	25.38 <sub>257</sub>	15.555 <sub>246</sub>	5.82 <sub>210</sub>
19.6	47.275 <sub>259</sub>	10.31 <sub>316</sub>	49.07 <sub>60</sub>	37.70 <sub>175</sub>	16.417 <sub>226</sub>	27.95 <sub>284</sub>	15.801 <sub>220</sub>	7.92 <sub>231</sub>
29.6	47.534 <sub>194</sub>	13.47 <sub>335</sub>	49.67 <sub>51</sub>	39.45 <sub>201</sub>	16.643 <sub>187</sub>	30.79 <sub>303</sub>	16.021 <sub>191</sub>	10.23 <sub>244</sub>
Juni 8.6	47.728 <sub>124</sub>	16.82 <sub>347</sub>	50.18 <sub>41</sub>	41.46 <sub>222</sub>	16.830 <sub>143</sub>	33.82 <sub>313</sub>	16.212 <sub>155</sub>	12.67 <sub>251</sub>
18.5	47.852 <sub>53</sub>	20.29 <sub>347</sub>	50.59 <sub>30</sub>	43.68 <sub>238</sub>	16.973 <sub>95</sub>	36.95 <sub>314</sub>	16.367 <sub>116</sub>	15.18 <sub>250</sub>
28.5	47.905 <sub>21</sub>	23.76 <sub>339</sub>	50.89 <sub>18</sub>	46.06 <sub>245</sub>	17.068 <sub>46</sub>	40.09 <sub>307</sub>	16.483 <sub>75</sub>	17.68 <sub>242</sub>
Juli 8.5	47.884 <sub>94</sub>	27.15 <sub>323</sub>	51.07 <sub>5</sub>	48.51 <sub>248</sub>	17.114 <sub>6</sub>	43.16 <sub>293</sub>	16.558 <sub>30</sub>	20.10 <sub>230</sub>
18.4	47.790 <sub>164</sub>	30.38 <sub>298</sub>	51.12 <sub>8</sub>	50.99 <sub>240</sub>	17.108 <sub>55</sub>	46.09 <sub>272</sub>	16.588 <sub>13</sub>	22.40 <sub>212</sub>
28.4	47.626 <sub>230</sub>	33.36 <sub>269</sub>	51.04 <sub>19</sub>	53.39 <sub>226</sub>	17.053 <sub>104</sub>	48.81 <sub>246</sub>	16.575 <sub>57</sub>	24.52 <sub>190</sub>
Aug. 7.4	47.396 <sub>289</sub>	36.05 <sub>233</sub>	50.85 <sub>32</sub>	55.65 <sub>204</sub>	16.949 <sub>149</sub>	51.27 <sub>213</sub>	16.518 <sub>97</sub>	26.42 <sub>164</sub>
17.4	47.107 <sub>341</sub>	38.38 <sub>191</sub>	50.53 <sub>42</sub>	57.69 <sub>174</sub>	16.800 <sub>188</sub>	53.40 <sub>178</sub>	16.421 <sub>133</sub>	28.06 <sub>136</sub>
27.3	46.766 <sub>382</sub>	40.29 <sub>146</sub>	50.11 <sub>50</sub>	59.43 <sub>137</sub>	16.612 <sub>220</sub>	55.18 <sub>137</sub>	16.288 <sub>164</sub>	29.42 <sub>104</sub>
Sept. 6.3	46.384 <sub>412</sub>	41.75 <sub>97</sub>	49.61 <sub>57</sub>	60.80 <sub>94</sub>	16.392 <sub>245</sub>	56.55 <sub>96</sub>	16.124 <sub>186</sub>	30.46 <sub>72</sub>
16.3	45.972 <sub>429</sub>	42.72 <sub>47</sub>	49.04 <sub>61</sub>	61.74 <sub>62</sub>	16.147 <sub>260</sub>	57.51 <sub>50</sub>	15.938 <sub>200</sub>	31.18 <sub>38</sub>
26.3	45.543 <sub>434</sub>	43.19 <sub>6</sub>	48.43 <sub>62</sub>	62.21 <sub>47</sub>	15.887 <sub>264</sub>	58.01 <sub>5</sub>	15.738 <sub>200</sub>	31.56 <sub>4</sub>
Okt. 6.2	45.109 <sub>423</sub>	43.13 <sub>60</sub>	47.81 <sub>60</sub>	62.17 <sub>55</sub>	15.623 <sub>258</sub>	58.06 <sub>43</sub>	15.532 <sub>206</sub>	31.60 <sub>32</sub>
16.2	44.686 <sub>400</sub>	42.53 <sub>112</sub>	47.21 <sub>57</sub>	61.62 <sub>104</sub>	15.365 <sub>241</sub>	57.63 <sub>89</sub>	15.332 <sub>186</sub>	31.28 <sub>68</sub>
26.2	44.286 <sub>362</sub>	41.41 <sub>164</sub>	46.64 <sub>49</sub>	60.58 <sub>152</sub>	15.124 <sub>215</sub>	56.74 <sub>135</sub>	15.146 <sub>163</sub>	30.60 <sub>101</sub>
Nov. 5.1	43.924 <sub>312</sub>	39.77 <sub>212</sub>	46.15 <sub>40</sub>	59.06 <sub>193</sub>	14.909 <sub>178</sub>	55.39 <sub>178</sub>	14.983 <sub>131</sub>	29.59 <sub>135</sub>
15.1	43.612 <sub>252</sub>	37.65 <sub>257</sub>	45.75 <sub>28</sub>	57.13 <sub>228</sub>	14.731 <sub>136</sub>	53.61 <sub>218</sub>	14.852 <sub>94</sub>	28.24 <sub>166</sub>
25.1	43.360 <sub>182</sub>	35.08 <sub>293</sub>	45.47 <sub>16</sub>	54.85 <sub>254</sub>	14.595 <sub>88</sub>	51.43 <sub>253</sub>	14.758 <sub>52</sub>	26.58 <sub>193</sub>
Dez. 5.1	43.178 <sub>105</sub>	32.15 <sub>324</sub>	45.31 <sub>2</sub>	52.31 <sub>272</sub>	14.507 <sub>35</sub>	48.90 <sub>281</sub>	14.706 <sub>8</sub>	24.65 <sub>215</sub>
15.0	43.073 <sub>25</sub>	28.91 <sub>344</sub>	45.29 <sub>11</sub>	49.59 <sub>280</sub>	14.472 <sub>19</sub>	46.09 <sub>300</sub>	14.698 <sub>38</sub>	22.50 <sub>231</sub>
25.0	43.048 <sub>57</sub>	25.47 <sub>352</sub>	45.40 <sub>25</sub>	46.79 <sub>279</sub>	14.491 <sub>72</sub>	43.09 <sub>310</sub>	14.736 <sub>82</sub>	20.19 <sub>240</sub>
35.0	43.105	21.95	45.65	44.00	14.563	39.99	14.818	17.79
Mittl. Ort sec $\delta$ , tg $\delta$	44.551 1.928	14.31 +1.648	41.66 3.151	56.33 -2.989	13.776 1.281	30.28 +0.801	13.102 1.067	7.59 +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.
1920	18 <sup>h</sup> 44 <sup>m</sup>	-62° 16'	18 <sup>h</sup> 47 <sup>m</sup>	+33° 15'	18 <sup>h</sup> 49 <sup>m</sup>	+59° 17'	18 <sup>h</sup> 50 <sup>m</sup>	-26° 23'
Jan. I.0	46.98	45.75	6.625	75.04	59.060	32.31	17.811	45.16
II.0	47.21	43.35	6.719	72.15	59.116	28.84	17.952	44.80
21.0	47.52	41.03	6.859	69.32	59.253	25.42	18.132	44.46
30.9	47.90	38.87	7.040	66.65	59.404	22.16	18.347	44.13
Feb. 9.9	48.34	36.91	7.258	64.24	59.745	19.20	18.592	43.79
19.9	48.83	35.18	7.507	62.21	60.086	16.65	18.861	43.44
29.8	49.37	33.71	7.782	60.62	60.478	14.61	19.149	43.05
März 10.8	49.93	32.53	8.077	59.54	60.909	13.14	19.453	42.63
20.8	50.51	31.65	8.385	59.01	61.367	12.31	19.767	42.18
30.8	51.10	31.09	8.701	59.05	61.840	12.15	20.088	41.68
Apr. 9.7	51.69	30.84	9.020	59.66	62.314	12.64	20.412	41.16
19.7	52.28	30.92	9.333	60.80	62.777	13.77	20.734	40.63
29.7	52.85	31.32	9.636	62.43	63.217	15.49	21.050	40.11
Mai 9.7	53.39	32.03	9.921	64.48	63.621	17.72	21.355	39.63
19.6	53.89	33.04	10.183	66.88	63.980	20.39	21.644	39.20
29.6	54.34	34.34	10.415	69.56	64.284	23.42	21.909	38.86
Juni 8.6	54.73	35.88	10.612	72.43	64.527	26.70	22.145	38.61
18.5	55.06	37.64	10.769	75.40	64.701	30.15	22.347	38.46
28.5	55.31	39.56	10.883	78.39	64.802	33.66	22.509	38.43
Juli 8.5	55.47	41.60	10.949	81.33	64.829	37.15	22.628	38.50
18.5	55.55	43.69	10.968	84.15	64.780	40.53	22.700	38.68
28.4	55.55	45.76	10.938	86.77	64.657	43.73	22.724	38.95
Aug. 7.4	55.45	47.75	10.861	89.15	64.464	46.67	22.700	39.27
17.4	55.27	49.57	10.741	91.24	64.206	49.28	22.631	39.64
27.3	55.02	51.17	10.581	92.99	63.891	51.52	22.519	40.01
Sept. 6.3	54.70	52.47	10.388	94.38	63.527	53.33	22.372	40.36
16.3	54.33	53.42	10.170	95.37	63.126	54.68	22.198	40.66
26.3	53.94	53.97	9.936	95.95	62.701	55.53	22.007	40.89
Okt. 6.2	53.53	54.10	9.696	96.09	62.263	55.86	21.808	41.03
16.2	53.12	53.77	9.459	95.80	61.828	55.66	21.614	41.07
26.2	52.75	53.01	9.236	95.07	61.409	54.92	21.435	41.01
Nov. 5.2	52.42	51.83	9.037	93.90	61.021	53.64	21.281	40.86
15.1	52.15	50.28	8.870	92.32	60.675	51.85	21.163	40.63
25.1	51.96	48.41	8.742	90.35	60.385	49.59	21.085	40.35
Dez. 5.1	51.86	46.29	8.658	88.05	60.159	46.90	21.054	40.02
15.0	51.84	43.99	8.623	85.47	60.006	43.86	21.070	39.68
25.0	51.92	41.60	8.637	82.70	59.930	40.56	21.135	39.33
35.0	52.09	39.20	8.700	79.80	59.935	37.11	21.247	38.99
Mittl. Ort	48.48	51.53	7.567	68.49	61.321	24.73	18.316	50.57
sec $\delta$ , tg $\delta$	2.150	-1.903	1.196	+0.656	1.958	+1.683	1.116	-0.496

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	708) λ Telescopii		709) θ Serpentis pr.		711) R Lyrae		713) γ Lyrae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	18 <sup>h</sup> 52 <sup>m</sup>	-53° 2'	18 <sup>h</sup> 52 <sup>m</sup>	+4° 5'	18 <sup>h</sup> 52 <sup>m</sup>	+43° 50'	18 <sup>h</sup> 55 <sup>m</sup>	+32° 34'
Jan. 1.0	2.896 <sup>183</sup>	35.20 <sup>196</sup>	14.039 <sup>113</sup>	60.18 <sup>151</sup>	52.790 <sup>77</sup>	31.19 <sup>319</sup>	56.125 <sup>85</sup>	51.45 <sup>284</sup>
11.0	3.079 <sup>244</sup>	33.24 <sup>190</sup>	14.152 <sup>148</sup>	58.67 <sup>147</sup>	52.867 <sup>131</sup>	28.00 <sup>315</sup>	56.210 <sup>130</sup>	48.61 <sup>280</sup>
21.0	3.323 <sup>298</sup>	31.34 <sup>179</sup>	14.300 <sup>181</sup>	57.20 <sup>138</sup>	52.998 <sup>181</sup>	24.85 <sup>299</sup>	56.340 <sup>172</sup>	45.81 <sup>266</sup>
30.9	3.621 <sup>344</sup>	29.55 <sup>166</sup>	14.481 <sup>208</sup>	55.82 <sup>122</sup>	53.179 <sup>226</sup>	21.86 <sup>271</sup>	56.512 <sup>209</sup>	43.15 <sup>240</sup>
Feb. 9.9	3.965 <sup>383</sup>	27.89 <sup>149</sup>	14.689 <sup>231</sup>	54.60 <sup>100</sup>	53.405 <sup>266</sup>	19.15 <sup>232</sup>	56.721 <sup>240</sup>	40.75 <sup>205</sup>
19.9	4.348 <sup>414</sup>	26.40 <sup>130</sup>	14.920 <sup>250</sup>	53.60 <sup>73</sup>	53.671 <sup>299</sup>	16.83 <sup>185</sup>	56.961 <sup>267</sup>	38.70 <sup>162</sup>
29.8	4.762 <sup>438</sup>	25.10 <sup>110</sup>	15.170 <sup>265</sup>	52.87 <sup>41</sup>	53.970 <sup>335</sup>	14.98 <sup>190</sup>	57.228 <sup>288</sup>	37.08 <sup>111</sup>
März 10.8	5.200 <sup>454</sup>	24.00 <sup>88</sup>	15.435 <sup>276</sup>	52.46 <sup>8</sup>	54.295 <sup>343</sup>	13.68 <sup>71</sup>	57.516 <sup>304</sup>	35.97 <sup>58</sup>
20.8	5.654 <sup>464</sup>	23.12 <sup>64</sup>	15.711 <sup>282</sup>	52.38 <sup>27</sup>	54.638 <sup>354</sup>	12.97 <sup>8</sup>	57.820 <sup>313</sup>	35.39 <sup>1</sup>
30.8	6.118 <sup>468</sup>	22.48 <sup>41</sup>	15.993 <sup>286</sup>	52.65 <sup>60</sup>	54.992 <sup>356</sup>	12.89 <sup>53</sup>	58.133 <sup>317</sup>	35.38 <sup>54</sup>
Apr. 9.7	6.586 <sup>465</sup>	22.07 <sup>16</sup>	16.279 <sup>285</sup>	53.25 <sup>92</sup>	55.348 <sup>352</sup>	13.42 <sup>112</sup>	58.450 <sup>315</sup>	35.92 <sup>108</sup>
19.7	7.051 <sup>454</sup>	21.91 <sup>9</sup>	16.564 <sup>278</sup>	54.17 <sup>119</sup>	55.700 <sup>338</sup>	14.54 <sup>167</sup>	58.765 <sup>305</sup>	37.00 <sup>157</sup>
29.7	7.505 <sup>435</sup>	22.00 <sup>33</sup>	16.842 <sup>268</sup>	55.36 <sup>142</sup>	56.038 <sup>317</sup>	16.21 <sup>215</sup>	59.070 <sup>289</sup>	38.57 <sup>200</sup>
Mai 9.7	7.940 <sup>409</sup>	22.33 <sup>62</sup>	17.110 <sup>252</sup>	56.78 <sup>160</sup>	56.355 <sup>289</sup>	18.36 <sup>255</sup>	59.359 <sup>268</sup>	40.57 <sup>236</sup>
19.6	8.349 <sup>373</sup>	22.95 <sup>84</sup>	17.362 <sup>230</sup>	58.38 <sup>172</sup>	56.644 <sup>253</sup>	20.91 <sup>287</sup>	59.627 <sup>239</sup>	42.93 <sup>264</sup>
29.6	8.722 <sup>330</sup>	23.79 <sup>108</sup>	17.592 <sup>204</sup>	60.10 <sup>179</sup>	56.897 <sup>212</sup>	23.78 <sup>309</sup>	59.866 <sup>205</sup>	45.57 <sup>283</sup>
Juni 8.6	9.052 <sup>278</sup>	24.87 <sup>127</sup>	17.796 <sup>172</sup>	61.89 <sup>180</sup>	57.109 <sup>166</sup>	26.87 <sup>324</sup>	60.071 <sup>167</sup>	48.40 <sup>296</sup>
18.5	9.330 <sup>220</sup>	26.14 <sup>144</sup>	17.968 <sup>136</sup>	63.69 <sup>175</sup>	57.275 <sup>115</sup>	30.11 <sup>329</sup>	60.238 <sup>123</sup>	51.36 <sup>298</sup>
28.5	9.550 <sup>156</sup>	27.58 <sup>157</sup>	18.104 <sup>97</sup>	65.44 <sup>168</sup>	57.390 <sup>60</sup>	33.40 <sup>326</sup>	60.361 <sup>77</sup>	54.34 <sup>294</sup>
Juli 8.5	9.706 <sup>88</sup>	29.15 <sup>165</sup>	18.201 <sup>55</sup>	67.12 <sup>156</sup>	57.450 <sup>6</sup>	36.66 <sup>314</sup>	60.438 <sup>30</sup>	57.28 <sup>282</sup>
18.5	9.794 <sup>18</sup>	30.80 <sup>166</sup>	18.256 <sup>12</sup>	68.68 <sup>141</sup>	57.456 <sup>49</sup>	39.80 <sup>296</sup>	60.468 <sup>19</sup>	60.10 <sup>265</sup>
28.4	9.812 <sup>51</sup>	32.46 <sup>163</sup>	18.268 <sup>30</sup>	70.09 <sup>123</sup>	57.407 <sup>102</sup>	42.76 <sup>270</sup>	60.449 <sup>67</sup>	62.75 <sup>242</sup>
Aug. 7.4	9.761 <sup>118</sup>	34.09 <sup>153</sup>	18.238 <sup>70</sup>	71.32 <sup>105</sup>	57.305 <sup>152</sup>	45.46 <sup>241</sup>	60.382 <sup>111</sup>	65.17 <sup>213</sup>
17.4	9.643 <sup>179</sup>	35.62 <sup>137</sup>	18.168 <sup>107</sup>	72.37 <sup>84</sup>	57.153 <sup>196</sup>	47.87 <sup>204</sup>	60.271 <sup>151</sup>	67.30 <sup>180</sup>
27.3	9.464 <sup>230</sup>	36.99 <sup>115</sup>	18.061 <sup>138</sup>	73.21 <sup>64</sup>	56.957 <sup>233</sup>	49.91 <sup>165</sup>	60.120 <sup>185</sup>	69.10 <sup>145</sup>
Sept. 6.3	9.234 <sup>270</sup>	38.14 <sup>87</sup>	17.923 <sup>162</sup>	73.85 <sup>43</sup>	56.724 <sup>262</sup>	51.56 <sup>121</sup>	59.935 <sup>212</sup>	70.55 <sup>106</sup>
16.3	8.964 <sup>297</sup>	39.01 <sup>56</sup>	17.761 <sup>177</sup>	74.28 <sup>21</sup>	56.462 <sup>281</sup>	52.77 <sup>75</sup>	59.723 <sup>229</sup>	71.61 <sup>65</sup>
26.3	8.667 <sup>309</sup>	39.57 <sup>20</sup>	17.584 <sup>183</sup>	74.49 <sup>1</sup>	56.181 <sup>290</sup>	53.52 <sup>28</sup>	59.494 <sup>236</sup>	72.26 <sup>22</sup>
Okt. 6.2	8.358 <sup>304</sup>	39.77 <sup>16</sup>	17.401 <sup>180</sup>	74.50 <sup>21</sup>	55.891 <sup>288</sup>	53.80 <sup>22</sup>	59.258 <sup>235</sup>	72.48 <sup>21</sup>
16.2	8.054 <sup>284</sup>	39.61 <sup>52</sup>	17.221 <sup>167</sup>	74.29 <sup>42</sup>	55.603 <sup>274</sup>	53.58 <sup>71</sup>	59.023 <sup>222</sup>	72.27 <sup>65</sup>
26.2	7.770 <sup>249</sup>	39.09 <sup>87</sup>	17.054 <sup>145</sup>	73.87 <sup>63</sup>	55.329 <sup>250</sup>	52.87 <sup>120</sup>	58.801 <sup>200</sup>	71.62 <sup>107</sup>
Nov. 5.2	7.521 <sup>200</sup>	38.22 <sup>119</sup>	16.909 <sup>115</sup>	73.24 <sup>83</sup>	55.079 <sup>216</sup>	51.67 <sup>167</sup>	58.601 <sup>170</sup>	70.55 <sup>149</sup>
15.1	7.321 <sup>141</sup>	37.03 <sup>145</sup>	16.794 <sup>79</sup>	72.41 <sup>102</sup>	54.863 <sup>174</sup>	50.00 <sup>210</sup>	58.431 <sup>133</sup>	69.06 <sup>188</sup>
25.1	7.180 <sup>75</sup>	35.58 <sup>168</sup>	16.715 <sup>40</sup>	71.39 <sup>119</sup>	54.689 <sup>126</sup>	47.90 <sup>249</sup>	58.298 <sup>89</sup>	67.18 <sup>222</sup>
Dez. 5.1	7.105 <sup>3</sup>	33.90 <sup>182</sup>	16.675 <sup>2</sup>	70.20 <sup>135</sup>	54.563 <sup>72</sup>	45.41 <sup>281</sup>	58.209 <sup>43</sup>	64.96 <sup>250</sup>
15.0	7.102 <sup>69</sup>	32.08 <sup>192</sup>	16.677 <sup>45</sup>	68.85 <sup>146</sup>	54.491 <sup>17</sup>	42.60 <sup>305</sup>	58.166 <sup>6</sup>	62.46 <sup>272</sup>
25.0	7.171 <sup>138</sup>	30.16 <sup>194</sup>	16.722 <sup>86</sup>	67.39 <sup>151</sup>	54.474 <sup>41</sup>	39.55 <sup>319</sup>	58.172 <sup>54</sup>	59.74 <sup>284</sup>
35.0	7.309	28.22	16.808	65.88	54.515	36.36	58.226	56.90
Mittl. Ort	3.915	40.48	14.549	54.20	54.065	23.89	57.034	44.34
sec δ, tg δ	1.663	-1.329	1.003	+0.072	1.386	+0.960	1.187	+0.639

Mittlere Zeit Greenw.	716) ζ Aquilae		717) λ Aquilae		718) α Coron. austr.		720) π Sagittarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	19 <sup>h</sup> 1 <sup>m</sup>	+13° 44'	19 <sup>h</sup> 1 <sup>m</sup>	-4° 59'	19 <sup>h</sup> 4 <sup>m</sup>	-38° 1'	19 <sup>h</sup> 4 <sup>m</sup>	-21° 8'
Jan. 1.0	43.388 <sup>96</sup>	43.26 <sup>200</sup>	59.755 <sup>110</sup>	67.03 <sup>95</sup>	1.197 <sup>139</sup>	44.71 <sup>113</sup>	59.937 <sup>120</sup>	61.85 <sup>7</sup>
11.0	43.484 <sup>133</sup>	41.26 <sup>197</sup>	59.865 <sup>146</sup>	67.98 <sup>93</sup>	1.336 <sup>185</sup>	43.58 <sup>110</sup>	60.057 <sup>158</sup>	61.78 <sup>7</sup>
21.0	43.617 <sup>167</sup>	39.29 <sup>186</sup>	60.011 <sup>178</sup>	68.91 <sup>86</sup>	1.521 <sup>225</sup>	42.48 <sup>107</sup>	60.215 <sup>192</sup>	61.71 <sup>10</sup>
30.9	43.784 <sup>197</sup>	37.43 <sup>167</sup>	60.189 <sup>205</sup>	69.77 <sup>73</sup>	1.746 <sup>261</sup>	41.41 <sup>104</sup>	60.407 <sup>222</sup>	61.61 <sup>14</sup>
Feb. 9.9	43.981 <sup>223</sup>	35.76 <sup>140</sup>	60.394 <sup>229</sup>	70.50 <sup>58</sup>	2.007 <sup>290</sup>	40.37 <sup>98</sup>	60.629 <sup>247</sup>	61.47 <sup>21</sup>
19.9	44.204 <sup>244</sup>	34.36 <sup>106</sup>	60.623 <sup>248</sup>	71.08 <sup>38</sup>	2.297 <sup>315</sup>	39.39 <sup>92</sup>	60.876 <sup>267</sup>	61.26 <sup>28</sup>
29.9	44.448 <sup>262</sup>	33.30 <sup>69</sup>	60.871 <sup>264</sup>	71.46 <sup>14</sup>	2.612 <sup>334</sup>	38.47 <sup>86</sup>	61.143 <sup>283</sup>	60.98 <sup>37</sup>
März 10.8	44.710 <sup>275</sup>	32.61 <sup>27</sup>	61.135 <sup>276</sup>	71.60 <sup>12</sup>	2.946 <sup>349</sup>	37.61 <sup>79</sup>	61.426 <sup>297</sup>	60.61 <sup>47</sup>
20.8	44.985 <sup>284</sup>	32.34 <sup>15</sup>	61.411 <sup>285</sup>	71.48 <sup>37</sup>	3.295 <sup>359</sup>	36.82 <sup>70</sup>	61.723 <sup>305</sup>	60.14 <sup>56</sup>
30.8	45.269 <sup>289</sup>	32.49 <sup>58</sup>	61.696 <sup>289</sup>	71.11 <sup>61</sup>	3.654 <sup>365</sup>	36.12 <sup>61</sup>	62.028 <sup>311</sup>	59.58 <sup>64</sup>
Apr. 9.7	45.558 <sup>288</sup>	33.07 <sup>98</sup>	61.985 <sup>289</sup>	70.50 <sup>85</sup>	4.019 <sup>365</sup>	35.51 <sup>51</sup>	62.339 <sup>312</sup>	58.94 <sup>71</sup>
19.7	45.846 <sup>283</sup>	34.05 <sup>134</sup>	62.274 <sup>286</sup>	69.65 <sup>104</sup>	4.384 <sup>360</sup>	35.00 <sup>37</sup>	62.651 <sup>308</sup>	58.23 <sup>73</sup>
29.7	46.129 <sup>272</sup>	35.39 <sup>164</sup>	62.560 <sup>277</sup>	68.61 <sup>119</sup>	4.744 <sup>350</sup>	34.63 <sup>24</sup>	62.959 <sup>300</sup>	57.50 <sup>75</sup>
Mai 9.7	46.401 <sup>257</sup>	37.03 <sup>190</sup>	62.837 <sup>262</sup>	67.42 <sup>130</sup>	5.094 <sup>332</sup>	34.39 <sup>8</sup>	63.259 <sup>285</sup>	56.75 <sup>73</sup>
19.6	46.658 <sup>235</sup>	38.93 <sup>209</sup>	63.099 <sup>243</sup>	66.12 <sup>137</sup>	5.426 <sup>307</sup>	34.31 <sup>9</sup>	63.544 <sup>266</sup>	56.02 <sup>68</sup>
29.6	46.893 <sup>207</sup>	41.02 <sup>220</sup>	63.342 <sup>217</sup>	64.75 <sup>139</sup>	5.733 <sup>277</sup>	34.40 <sup>26</sup>	63.810 <sup>238</sup>	55.34 <sup>61</sup>
Juni 8.6	47.100 <sup>176</sup>	43.22 <sup>225</sup>	63.559 <sup>187</sup>	63.36 <sup>136</sup>	6.010 <sup>239</sup>	34.66 <sup>42</sup>	64.048 <sup>208</sup>	54.73 <sup>51</sup>
18.6	47.276 <sup>138</sup>	45.47 <sup>225</sup>	63.746 <sup>152</sup>	62.00 <sup>129</sup>	6.249 <sup>195</sup>	35.08 <sup>58</sup>	64.256 <sup>169</sup>	54.22 <sup>39</sup>
28.5	47.414 <sup>99</sup>	47.72 <sup>218</sup>	63.898 <sup>112</sup>	60.71 <sup>120</sup>	6.444 <sup>146</sup>	35.66 <sup>72</sup>	64.425 <sup>128</sup>	53.83 <sup>27</sup>
Juli 8.5	47.513 <sup>56</sup>	49.90 <sup>207</sup>	64.010 <sup>70</sup>	59.51 <sup>109</sup>	6.590 <sup>94</sup>	36.38 <sup>83</sup>	64.553 <sup>84</sup>	53.56 <sup>16</sup>
18.5	47.569 <sup>12</sup>	51.97 <sup>191</sup>	64.080 <sup>27</sup>	58.42 <sup>95</sup>	6.684 <sup>38</sup>	37.21 <sup>90</sup>	64.637 <sup>36</sup>	53.40 <sup>4</sup>
28.4	47.581 <sup>32</sup>	53.88 <sup>171</sup>	64.107 <sup>17</sup>	57.47 <sup>80</sup>	6.722 <sup>16</sup>	38.11 <sup>95</sup>	64.673 <sup>10</sup>	53.36 <sup>5</sup>
Aug. 7.4	47.549 <sup>72</sup>	55.59 <sup>148</sup>	64.090 <sup>58</sup>	56.67 <sup>65</sup>	6.706 <sup>68</sup>	39.06 <sup>94</sup>	64.663 <sup>55</sup>	53.41 <sup>14</sup>
17.4	47.477 <sup>110</sup>	57.07 <sup>124</sup>	64.032 <sup>96</sup>	56.02 <sup>49</sup>	6.638 <sup>118</sup>	40.00 <sup>90</sup>	64.608 <sup>96</sup>	53.55 <sup>19</sup>
27.4	47.367 <sup>142</sup>	58.31 <sup>96</sup>	63.936 <sup>129</sup>	55.53 <sup>35</sup>	6.520 <sup>159</sup>	40.90 <sup>79</sup>	64.512 <sup>133</sup>	53.74 <sup>22</sup>
Sept. 6.3	47.225 <sup>167</sup>	59.27 <sup>70</sup>	63.807 <sup>155</sup>	55.18 <sup>21</sup>	6.361 <sup>193</sup>	41.69 <sup>66</sup>	64.379 <sup>160</sup>	53.96 <sup>23</sup>
16.3	47.058 <sup>184</sup>	59.97 <sup>40</sup>	63.652 <sup>171</sup>	54.97 <sup>7</sup>	6.168 <sup>216</sup>	42.35 <sup>48</sup>	64.219 <sup>180</sup>	54.19 <sup>21</sup>
26.3	46.874 <sup>192</sup>	60.37 <sup>10</sup>	63.481 <sup>180</sup>	54.90 <sup>5</sup>	5.952 <sup>227</sup>	42.83 <sup>28</sup>	64.039 <sup>189</sup>	54.40 <sup>19</sup>
Okt. 6.3	46.682 <sup>190</sup>	60.47 <sup>19</sup>	63.301 <sup>177</sup>	54.95 <sup>17</sup>	5.725 <sup>225</sup>	43.11 <sup>7</sup>	63.850 <sup>187</sup>	54.59 <sup>13</sup>
16.2	46.492 <sup>179</sup>	60.28 <sup>49</sup>	63.124 <sup>166</sup>	55.12 <sup>30</sup>	5.500 <sup>211</sup>	43.18 <sup>16</sup>	63.663 <sup>175</sup>	54.72 <sup>9</sup>
26.2	46.313 <sup>158</sup>	59.79 <sup>77</sup>	62.958 <sup>144</sup>	55.42 <sup>42</sup>	5.289 <sup>186</sup>	43.02 <sup>38</sup>	63.488 <sup>154</sup>	54.81 <sup>5</sup>
Nov. 5.2	46.155 <sup>130</sup>	59.02 <sup>107</sup>	62.814 <sup>116</sup>	55.84 <sup>53</sup>	5.103 <sup>150</sup>	42.64 <sup>58</sup>	63.334 <sup>122</sup>	54.86 <sup>0</sup>
15.1	46.025 <sup>97</sup>	57.95 <sup>133</sup>	62.698 <sup>81</sup>	56.37 <sup>65</sup>	4.953 <sup>105</sup>	42.06 <sup>75</sup>	63.212 <sup>85</sup>	54.86 <sup>2</sup>
25.1	45.928 <sup>57</sup>	56.62 <sup>156</sup>	62.617 <sup>42</sup>	57.02 <sup>75</sup>	4.848 <sup>55</sup>	41.31 <sup>89</sup>	63.127 <sup>43</sup>	54.84 <sup>4</sup>
Dez. 5.1	45.871 <sup>16</sup>	55.06 <sup>177</sup>	62.575 <sup>0</sup>	57.77 <sup>85</sup>	4.793 <sup>1</sup>	40.42 <sup>100</sup>	63.084 <sup>3</sup>	54.80 <sup>5</sup>
15.1	45.855 <sup>27</sup>	53.29 <sup>192</sup>	62.575 <sup>43</sup>	58.62 <sup>92</sup>	4.792 <sup>52</sup>	39.42 <sup>106</sup>	63.087 <sup>47</sup>	54.75 <sup>4</sup>
25.0	45.882 <sup>68</sup>	51.37 <sup>201</sup>	62.618 <sup>83</sup>	59.54 <sup>97</sup>	4.844 <sup>105</sup>	38.36 <sup>108</sup>	63.134 <sup>92</sup>	54.71 <sup>4</sup>
35.0	45.950	49.36	62.701	60.51	4.949	37.28	63.226	54.67
Mittl. Ort	43.971	36.64	60.218	72.88	1.844	49.54	60.416	67.11
sec δ, tg δ	1.029	+0.245	1.004	-0.088	1.270	-0.782	1.072	-0.387



# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	723) δ Draconis		724) θ Lyrae		725) ω Aquilae		726) α Cygni	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	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° 26'	19 <sup>h</sup> 15 <sup>m</sup>	+53° 13'
Jan. 1.0	29.24	24.81	34.436	34.21	3.134	67.47	13.609	22.66
11.0	29.21	21.38	34.494	31.24	3.220	65.63	13.638	19.34
21.0	29.30	17.91	34.602	28.27	3.342	63.81	13.733	16.00
30.9	29.49	14.55	34.754	25.43	3.498	62.08	13.892	12.78
Feb. 9.9	29.79	11.43	34.949	22.81	3.685	60.54	14.110	9.80
19.9	30.17	8.65	35.182	20.54	3.898	59.24	14.383	7.17
29.9	30.63	6.34	35.446	18.69	4.134	58.24	14.702	4.99
März 10.8	31.16	4.58	35.737	17.35	4.388	57.61	15.060	3.36
20.8	31.73	3.43	36.049	16.56	4.658	57.37	15.447	2.33
30.8	32.33	2.94	36.375	16.36	4.938	57.53	15.853	1.93
Apr. 9.8	32.95	3.11	36.708	16.74	5.224	58.10	16.269	2.18
19.7	33.56	3.93	37.042	17.70	5.513	59.05	16.683	3.06
29.7	34.14	5.36	37.368	19.18	5.799	60.34	17.086	4.54
Mai 9.7	34.68	7.35	37.681	21.14	6.076	61.93	17.466	6.55
19.6	35.16	9.83	37.971	23.50	6.339	63.76	17.814	9.02
29.6	35.58	12.70	38.234	26.19	6.583	65.78	18.123	11.88
Juni 8.6	35.91	15.89	38.461	29.11	6.800	67.90	18.382	15.02
18.6	36.16	19.30	38.648	32.20	6.987	70.08	18.587	18.37
28.5	36.31	22.84	38.789	35.36	7.138	72.25	18.732	21.83
Juli 8.5	36.36	26.41	38.882	38.51	7.250	74.35	18.813	25.31
18.5	36.31	29.93	38.924	41.57	7.319	76.35	18.828	28.73
28.5	36.16	33.31	38.913	44.47	7.345	78.19	18.778	32.00
Aug. 7.4	35.92	36.49	38.852	47.16	7.326	79.84	18.664	35.05
17.4	35.60	39.38	38.743	49.57	7.266	81.28	18.490	37.82
27.4	35.19	41.93	38.589	51.66	7.168	82.48	18.261	40.25
Sept. 6.3	34.71	44.09	38.398	53.38	7.036	83.43	17.986	42.29
16.3	34.19	45.81	38.177	54.70	6.878	84.11	17.673	43.90
26.3	33.61	47.04	37.934	55.60	6.701	84.53	17.333	45.03
Okt. 6.3	33.02	47.76	37.679	56.05	6.514	84.67	16.978	45.67
16.2	32.42	47.94	37.424	56.04	6.327	84.54	16.618	45.78
26.2	31.83	47.58	37.177	55.56	6.150	84.12	16.268	45.37
Nov. 5.2	31.27	46.66	36.949	54.62	5.991	83.44	15.938	44.43
15.2	30.75	45.20	36.750	53.22	5.858	82.50	15.641	42.96
25.1	30.30	43.22	36.586	51.40	5.757	81.30	15.387	41.01
Dez. 5.1	29.92	40.78	36.465	49.19	5.694	79.88	15.184	38.62
15.1	29.62	37.93	36.391	46.66	5.670	78.27	15.039	35.84
25.0	29.43	34.76	36.366	43.87	5.688	76.51	14.958	32.76
35.0	29.34	31.37	36.391	40.93	5.746	74.66	14.943	29.49
Mittl. Ort sec δ, tg δ	32.44 2.615	14.76 +2.417	35.448 1.269	25.65 +0.781	3.678 1.020	60.55 +0.203	15.280 1.670	13.07 +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.
1920	19 <sup>h</sup> 17 <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	1.51 <sup>8</sup>	37.31 <sup>341</sup>	20.029 <sup>123</sup>	59.41 <sup>132</sup>	27.420 <sup>85</sup>	21.79 <sup>136</sup>	28.948 <sup>56</sup>	35.49 <sup>256</sup>
11.0	1.43 <sup>6</sup>	33.90 <sup>345</sup>	20.152 <sup>171</sup>	58.09 <sup>133</sup>	27.505 <sup>122</sup>	20.43 <sup>133</sup>	29.004 <sup>98</sup>	32.93 <sup>257</sup>
21.0	1.49 <sup>21</sup>	30.45 <sup>337</sup>	20.323 <sup>215</sup>	56.76 <sup>132</sup>	27.627 <sup>154</sup>	19.10 <sup>125</sup>	29.102 <sup>138</sup>	30.36 <sup>247</sup>
30.9	1.70 <sup>34</sup>	27.08 <sup>315</sup>	20.538 <sup>253</sup>	55.44 <sup>127</sup>	27.781 <sup>184</sup>	17.85 <sup>111</sup>	29.240 <sup>174</sup>	27.89 <sup>227</sup>
Feb. 9.9	2.04 <sup>47</sup>	23.93 <sup>282</sup>	20.791 <sup>286</sup>	54.17 <sup>122</sup>	27.965 <sup>209</sup>	16.74 <sup>91</sup>	29.414 <sup>207</sup>	25.62 <sup>198</sup>
19.9	2.51 <sup>58</sup>	21.11 <sup>237</sup>	21.077 <sup>313</sup>	52.95 <sup>116</sup>	28.174 <sup>232</sup>	15.83 <sup>64</sup>	29.621 <sup>236</sup>	23.64 <sup>161</sup>
29.9	3.09 <sup>66</sup>	18.74 <sup>184</sup>	21.390 <sup>336</sup>	51.79 <sup>108</sup>	28.406 <sup>251</sup>	15.19 <sup>36</sup>	29.857 <sup>261</sup>	22.03 <sup>116</sup>
März 10.8	3.75 <sup>74</sup>	16.90 <sup>124</sup>	21.726 <sup>354</sup>	50.71 <sup>99</sup>	28.657 <sup>265</sup>	14.83 <sup>+</sup>	30.118 <sup>280</sup>	20.87 <sup>67</sup>
20.8	4.49 <sup>77</sup>	15.66 <sup>59</sup>	22.080 <sup>367</sup>	49.72 <sup>88</sup>	28.922 <sup>277</sup>	14.79 <sup>30</sup>	30.398 <sup>296</sup>	20.20 <sup>14</sup>
30.8	5.26 <sup>79</sup>	15.07 <sup>6</sup>	22.447 <sup>376</sup>	48.84 <sup>77</sup>	29.199 <sup>285</sup>	15.09 <sup>62</sup>	30.694 <sup>305</sup>	20.06 <sup>37</sup>
Apr. 9.8	6.05 <sup>78</sup>	15.13 <sup>72</sup>	22.823 <sup>379</sup>	48.07 <sup>63</sup>	29.484 <sup>289</sup>	15.71 <sup>92</sup>	30.999 <sup>308</sup>	20.43 <sup>90</sup>
19.7	6.83 <sup>75</sup>	15.85 <sup>133</sup>	23.202 <sup>376</sup>	47.44 <sup>47</sup>	29.773 <sup>287</sup>	16.63 <sup>120</sup>	31.307 <sup>306</sup>	21.33 <sup>136</sup>
29.7	7.58 <sup>70</sup>	17.18 <sup>190</sup>	23.578 <sup>368</sup>	46.97 <sup>30</sup>	30.060 <sup>280</sup>	17.83 <sup>142</sup>	31.613 <sup>298</sup>	22.69 <sup>179</sup>
Mai 9.7	8.28 <sup>62</sup>	19.08 <sup>239</sup>	23.946 <sup>352</sup>	46.67 <sup>11</sup>	30.340 <sup>269</sup>	19.25 <sup>161</sup>	31.911 <sup>282</sup>	24.48 <sup>215</sup>
19.6	8.90 <sup>52</sup>	21.47 <sup>280</sup>	24.298 <sup>329</sup>	46.56 <sup>8</sup>	30.609 <sup>251</sup>	20.86 <sup>172</sup>	32.193 <sup>260</sup>	26.63 <sup>244</sup>
29.6	9.42 <sup>42</sup>	24.27 <sup>313</sup>	24.627 <sup>298</sup>	46.64 <sup>28</sup>	30.860 <sup>226</sup>	22.58 <sup>180</sup>	32.453 <sup>231</sup>	29.07 <sup>266</sup>
Juni 8.6	9.84 <sup>30</sup>	27.40 <sup>337</sup>	24.925 <sup>260</sup>	46.92 <sup>48</sup>	31.086 <sup>198</sup>	24.38 <sup>181</sup>	32.684 <sup>197</sup>	31.73 <sup>279</sup>
18.6	10.14 <sup>18</sup>	30.77 <sup>350</sup>	25.185 <sup>217</sup>	47.40 <sup>66</sup>	31.284 <sup>163</sup>	26.19 <sup>177</sup>	32.881 <sup>158</sup>	34.52 <sup>285</sup>
28.5	10.32 <sup>4</sup>	34.27 <sup>356</sup>	25.402 <sup>166</sup>	48.06 <sup>82</sup>	31.447 <sup>124</sup>	27.96 <sup>170</sup>	33.039 <sup>115</sup>	37.37 <sup>284</sup>
Juli 8.5	10.36 <sup>8</sup>	37.83 <sup>352</sup>	25.568 <sup>112</sup>	48.88 <sup>96</sup>	31.571 <sup>83</sup>	29.66 <sup>157</sup>	33.154 <sup>68</sup>	40.21 <sup>275</sup>
18.5	10.28 <sup>22</sup>	41.35 <sup>340</sup>	25.680 <sup>55</sup>	49.84 <sup>105</sup>	31.654 <sup>40</sup>	31.23 <sup>143</sup>	33.222 <sup>22</sup>	42.96 <sup>261</sup>
28.5	10.06 <sup>33</sup>	44.75 <sup>321</sup>	25.735 <sup>2</sup>	50.89 <sup>111</sup>	31.694 <sup>5</sup>	32.66 <sup>126</sup>	33.244 <sup>26</sup>	45.57 <sup>241</sup>
Aug. 7.4	9.73 <sup>45</sup>	47.96 <sup>295</sup>	25.733 <sup>58</sup>	52.00 <sup>111</sup>	31.689 <sup>46</sup>	33.92 <sup>107</sup>	33.218 <sup>72</sup>	47.98 <sup>216</sup>
17.4	9.28 <sup>56</sup>	50.91 <sup>263</sup>	25.675 <sup>110</sup>	53.11 <sup>107</sup>	31.643 <sup>86</sup>	34.99 <sup>87</sup>	33.146 <sup>113</sup>	50.14 <sup>188</sup>
27.4	8.72 <sup>64</sup>	53.54 <sup>224</sup>	25.565 <sup>156</sup>	54.18 <sup>98</sup>	31.557 <sup>119</sup>	35.86 <sup>67</sup>	33.033 <sup>150</sup>	52.02 <sup>156</sup>
Sept. 6.3	8.08 <sup>71</sup>	55.78 <sup>181</sup>	25.409 <sup>193</sup>	55.16 <sup>82</sup>	31.438 <sup>147</sup>	36.53 <sup>47</sup>	32.883 <sup>130</sup>	53.58 <sup>120</sup>
16.3	7.37 <sup>77</sup>	57.59 <sup>133</sup>	25.216 <sup>220</sup>	55.98 <sup>64</sup>	31.291 <sup>167</sup>	37.00 <sup>26</sup>	32.703 <sup>201</sup>	54.78 <sup>84</sup>
26.3	6.60 <sup>80</sup>	58.92 <sup>84</sup>	24.996 <sup>234</sup>	56.62 <sup>42</sup>	31.124 <sup>178</sup>	37.26 <sup>5</sup>	32.502 <sup>214</sup>	55.62 <sup>44</sup>
Okt. 6.3	5.80 <sup>82</sup>	59.76 <sup>30</sup>	24.762 <sup>237</sup>	57.04 <sup>17</sup>	30.946 <sup>178</sup>	37.31 <sup>14</sup>	32.288 <sup>217</sup>	56.06 <sup>5</sup>
16.2	4.98 <sup>80</sup>	60.06 <sup>25</sup>	24.525 <sup>225</sup>	57.21 <sup>9</sup>	30.768 <sup>171</sup>	37.17 <sup>34</sup>	32.071 <sup>211</sup>	56.11 <sup>36</sup>
26.2	4.18 <sup>78</sup>	59.81 <sup>80</sup>	24.300 <sup>202</sup>	57.12 <sup>33</sup>	30.597 <sup>153</sup>	36.83 <sup>53</sup>	31.860 <sup>194</sup>	55.75 <sup>76</sup>
Nov. 5.2	3.40 <sup>71</sup>	59.01 <sup>135</sup>	24.098 <sup>167</sup>	56.79 <sup>58</sup>	30.444 <sup>127</sup>	36.30 <sup>72</sup>	31.666 <sup>170</sup>	54.99 <sup>115</sup>
15.2	2.69 <sup>65</sup>	57.66 <sup>187</sup>	23.931 <sup>125</sup>	56.21 <sup>78</sup>	30.317 <sup>97</sup>	35.58 <sup>90</sup>	31.496 <sup>139</sup>	53.84 <sup>153</sup>
25.1	2.04 <sup>55</sup>	55.79 <sup>235</sup>	23.806 <sup>74</sup>	55.43 <sup>97</sup>	30.220 <sup>60</sup>	34.68 <sup>106</sup>	31.357 <sup>101</sup>	52.31 <sup>187</sup>
Dez. 5.1	1.49 <sup>43</sup>	53.44 <sup>276</sup>	23.732 <sup>21</sup>	54.46 <sup>112</sup>	30.160 <sup>20</sup>	33.62 <sup>120</sup>	31.256 <sup>61</sup>	50.44 <sup>216</sup>
15.1	1.06 <sup>31</sup>	50.68 <sup>310</sup>	23.711 <sup>34</sup>	53.34 <sup>121</sup>	30.140 <sup>19</sup>	32.42 <sup>130</sup>	31.195 <sup>17</sup>	48.28 <sup>238</sup>
25.0	0.75 <sup>18</sup>	47.58 <sup>335</sup>	23.745 <sup>88</sup>	52.13 <sup>127</sup>	30.159 <sup>60</sup>	31.12 <sup>136</sup>	31.178 <sup>27</sup>	45.90 <sup>254</sup>
35.0	0.57	44.23	23.833	50.86	30.219	29.76	31.205	43.36
Mittl. Ort	6.01	26.56	20.734	63.59	27.895	15.24	29.681	26.80
sec $\delta$ , tg $\delta$	3.461	+3.314	1.320	-0.862	1.001	+0.052	1.130	+0.527

Mittlere Zeit Greenw.	733) $\iota$ Cygni		736) $h$ Sagittarii		738) $\theta$ Cygni		741) $\gamma$ Aquilae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	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° 1'	19 <sup>h</sup> 42 <sup>m</sup>	+10° 25'
Jan. 1.0	39.856	41.92	49.933	36.22	16.362	77.48	26.894	10.26
II.0	39.870	38.67	50.027	35.84	16.370	74.29	26.952	8.55
21.0	39.947	35.39	50.161	35.42	16.439	71.05	27.048	6.86
31.0	40.086	32.19	50.331	34.97	16.568	67.88	27.177	5.24
Feb. 9.9	40.283	29.20	50.533	34.47	16.752	64.90	27.338	3.77
19.9	40.532	26.53	50.763	33.92	16.989	62.24	27.527	2.53
29.9	40.829	24.29	51.018	33.31	17.271	60.00	27.742	1.57
März 10.8	41.165	22.58	51.293	32.63	17.592	58.26	27.979	0.94
20.8	41.532	21.45	51.585	31.89	17.946	57.10	28.236	0.69
30.8	41.922	20.94	51.891	31.08	18.322	56.55	28.507	0.83
Apr. 9.8	42.323	21.08	52.207	30.24	18.711	56.63	28.789	1.36
19.7	42.727	21.84	52.529	29.37	19.105	57.34	29.079	2.26
29.7	43.124	23.20	52.851	28.50	19.494	58.64	29.370	3.51
Mai 9.7	43.503	25.09	53.169	27.67	19.868	60.49	29.657	5.06
19.7	43.854	27.47	53.476	26.90	20.217	62.81	29.934	6.85
29.6	44.169	30.24	53.766	26.22	20.533	65.53	30.195	8.83
Juni 8.6	44.439	33.32	54.032	25.66	20.806	68.57	30.434	10.94
18.6	44.659	36.62	54.267	25.22	21.031	71.84	30.644	13.10
28.5	44.821	40.05	54.467	24.94	21.202	75.24	30.821	15.27
Juli 8.5	44.923	43.52	54.625	24.81	21.314	78.70	30.959	17.39
18.5	44.961	46.95	54.737	24.82	21.365	82.12	31.056	19.40
28.5	44.935	50.25	54.801	24.97	21.353	85.42	31.109	21.28
Aug. 7.4	44.847	53.35	54.816	25.23	21.281	88.54	31.118	22.97
17.4	44.699	56.19	54.784	25.59	21.149	91.41	31.083	24.46
27.4	44.498	58.72	54.706	26.01	20.964	93.96	31.007	25.72
Sept. 6.4	44.248	60.86	54.588	26.46	20.732	96.15	30.895	26.74
16.3	43.960	62.58	54.437	26.90	20.461	97.92	30.754	27.50
26.3	43.643	63.85	54.262	27.31	20.161	99.25	30.590	28.00
Okt. 6.3	43.308	64.63	54.073	27.65	19.842	100.09	30.412	28.24
16.2	42.966	64.89	53.881	27.92	19.516	100.43	30.230	28.21
26.2	42.631	64.64	53.695	28.09	19.194	100.25	30.052	27.91
Nov. 5.2	42.314	63.85	53.528	28.16	18.888	99.55	29.888	27.36
15.2	42.025	62.55	53.387	28.14	18.608	98.33	29.745	26.56
25.1	41.774	60.74	53.281	28.03	18.365	96.61	29.631	25.51
Dez. 5.1	41.571	58.49	53.215	27.84	18.166	94.44	29.550	24.24
15.1	41.422	55.84	53.192	27.59	18.019	91.87	29.505	22.79
25.1	41.332	52.87	53.214	27.30	17.928	88.97	29.499	21.19
35.0	41.305	49.68	53.279	26.97	17.897	85.85	29.532	19.49
Mittl. Ort sec d, tg d	41.368 1.609	31.41 +1.260	50.431 1.104	40.74 -0.468	17.760 1.557	66.55 +1.193	27.378 1.017	2.59 +0.184

Mittlere Zeit Greenw.	742) $\delta$ Cygni		743) $\delta$ Sagittae		745) $\alpha$ Aquilae*)		747) $\epsilon$ Draconis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	19 <sup>h</sup> 42 <sup>m</sup>	+44° 55'	19 <sup>h</sup> 43 <sup>m</sup>	+18° 20'	19 <sup>h</sup> 46 <sup>m</sup>	+8° 39'	19 <sup>h</sup> 48 <sup>m</sup>	+70° 3'
Jan. 1.0	27.357 <sup>11</sup>	76.31 <sup>305</sup>	48.676 <sup>50</sup>	18.22 <sup>209</sup>	52.331 <sup>60</sup>	29.40 <sup>158</sup>	23.76 <sup>14</sup>	64.48 <sup>328</sup>
11.0	27.368 <sup>65</sup>	73.26 <sup>311</sup>	48.726 <sup>88</sup>	16.13 <sup>210</sup>	52.391 <sup>96</sup>	27.82 <sup>158</sup>	23.62 <sup>1</sup>	61.20 <sup>341</sup>
21.0	27.433 <sup>117</sup>	70.15 <sup>306</sup>	48.814 <sup>124</sup>	14.03 <sup>202</sup>	52.487 <sup>130</sup>	26.24 <sup>149</sup>	23.61 <sup>10</sup>	57.79 <sup>340</sup>
31.0	27.550 <sup>168</sup>	67.09 <sup>287</sup>	48.938 <sup>158</sup>	12.01 <sup>186</sup>	52.617 <sup>160</sup>	24.75 <sup>135</sup>	23.71 <sup>23</sup>	54.39 <sup>327</sup>
Feb. 9.9	27.718 <sup>213</sup>	64.22 <sup>258</sup>	49.096 <sup>188</sup>	10.15 <sup>162</sup>	52.777 <sup>190</sup>	23.40 <sup>113</sup>	23.94 <sup>33</sup>	51.12 <sup>301</sup>
19.9	27.931 <sup>256</sup>	61.64 <sup>218</sup>	49.284 <sup>215</sup>	8.53 <sup>129</sup>	52.967 <sup>214</sup>	22.27 <sup>85</sup>	24.27 <sup>43</sup>	48.11 <sup>263</sup>
29.9	28.187 <sup>292</sup>	59.46 <sup>169</sup>	49.499 <sup>240</sup>	7.24 <sup>91</sup>	53.181 <sup>236</sup>	21.42 <sup>53</sup>	24.70 <sup>43</sup>	45.48 <sup>214</sup>
März 10.9	28.479 <sup>322</sup>	57.77 <sup>115</sup>	49.739 <sup>260</sup>	6.33 <sup>49</sup>	53.417 <sup>256</sup>	20.89 <sup>17</sup>	25.23 <sup>59</sup>	43.34 <sup>158</sup>
20.8	28.801 <sup>344</sup>	56.62 <sup>115</sup>	49.999 <sup>277</sup>	5.84 <sup>4</sup>	53.673 <sup>271</sup>	20.72 <sup>20</sup>	25.82 <sup>64</sup>	41.76 <sup>96</sup>
30.8	29.145 <sup>359</sup>	56.07 <sup>55</sup>	50.276 <sup>288</sup>	5.80 <sup>42</sup>	53.944 <sup>283</sup>	20.92 <sup>58</sup>	26.46 <sup>67</sup>	40.80 <sup>32</sup>
Apr. 9.8	29.504 <sup>365</sup>	56.13 <sup>67</sup>	50.564 <sup>295</sup>	6.22 <sup>86</sup>	54.227 <sup>289</sup>	21.50 <sup>94</sup>	27.13 <sup>69</sup>	40.48 <sup>34</sup>
19.7	29.869 <sup>364</sup>	56.80 <sup>124</sup>	50.859 <sup>296</sup>	7.08 <sup>127</sup>	54.516 <sup>292</sup>	22.44 <sup>126</sup>	27.82 <sup>67</sup>	40.82 <sup>97</sup>
29.7	30.233 <sup>352</sup>	58.04 <sup>177</sup>	51.155 <sup>292</sup>	8.35 <sup>164</sup>	54.808 <sup>288</sup>	23.70 <sup>155</sup>	28.49 <sup>64</sup>	41.79 <sup>157</sup>
Mai 9.7	30.585 <sup>333</sup>	59.81 <sup>224</sup>	51.447 <sup>281</sup>	9.99 <sup>194</sup>	55.096 <sup>278</sup>	25.25 <sup>178</sup>	29.13 <sup>59</sup>	43.36 <sup>211</sup>
19.7	30.918 <sup>305</sup>	62.05 <sup>263</sup>	51.728 <sup>264</sup>	11.93 <sup>219</sup>	55.374 <sup>263</sup>	27.03 <sup>195</sup>	29.72 <sup>53</sup>	45.47 <sup>257</sup>
29.6	31.223 <sup>270</sup>	64.68 <sup>294</sup>	51.992 <sup>240</sup>	14.12 <sup>236</sup>	55.637 <sup>241</sup>	28.98 <sup>207</sup>	30.25 <sup>45</sup>	48.04 <sup>295</sup>
Juni 8.6	31.493 <sup>227</sup>	67.62 <sup>317</sup>	52.232 <sup>211</sup>	16.48 <sup>247</sup>	55.878 <sup>214</sup>	31.05 <sup>211</sup>	30.70 <sup>35</sup>	50.99 <sup>325</sup>
18.6	31.720 <sup>178</sup>	70.79 <sup>330</sup>	52.443 <sup>175</sup>	18.95 <sup>251</sup>	56.092 <sup>180</sup>	33.16 <sup>211</sup>	31.05 <sup>25</sup>	54.24 <sup>346</sup>
28.6	31.898 <sup>125</sup>	74.09 <sup>336</sup>	52.618 <sup>136</sup>	21.46 <sup>248</sup>	56.272 <sup>141</sup>	35.27 <sup>205</sup>	31.30 <sup>14</sup>	57.70 <sup>358</sup>
Juli 8.5	32.023 <sup>69</sup>	77.45 <sup>332</sup>	52.754 <sup>93</sup>	23.94 <sup>240</sup>	56.413 <sup>101</sup>	37.32 <sup>195</sup>	31.44 <sup>4</sup>	61.28 <sup>361</sup>
18.5	32.092 <sup>12</sup>	80.77 <sup>322</sup>	52.847 <sup>47</sup>	26.34 <sup>226</sup>	56.514 <sup>57</sup>	39.27 <sup>179</sup>	31.48 <sup>8</sup>	64.89 <sup>356</sup>
28.5	32.104 <sup>45</sup>	83.99 <sup>304</sup>	52.894 <sup>2</sup>	28.60 <sup>208</sup>	56.571 <sup>12</sup>	41.06 <sup>162</sup>	31.40 <sup>19</sup>	68.45 <sup>342</sup>
Aug. 7.4	32.059 <sup>99</sup>	87.03 <sup>280</sup>	52.896 <sup>42</sup>	30.68 <sup>186</sup>	56.583 <sup>31</sup>	42.68 <sup>141</sup>	31.21 <sup>29</sup>	71.87 <sup>322</sup>
17.4	31.960 <sup>151</sup>	89.83 <sup>250</sup>	52.854 <sup>83</sup>	32.54 <sup>160</sup>	56.552 <sup>72</sup>	44.09 <sup>119</sup>	30.92 <sup>38</sup>	75.09 <sup>293</sup>
27.4	31.809 <sup>194</sup>	92.33 <sup>215</sup>	52.771 <sup>120</sup>	34.14 <sup>133</sup>	56.480 <sup>108</sup>	45.28 <sup>95</sup>	30.54 <sup>47</sup>	78.02 <sup>260</sup>
Sept. 6.4	31.615 <sup>233</sup>	94.48 <sup>175</sup>	52.651 <sup>151</sup>	35.47 <sup>103</sup>	56.372 <sup>137</sup>	46.23 <sup>71</sup>	30.07 <sup>54</sup>	80.62 <sup>221</sup>
16.3	31.382 <sup>260</sup>	96.23 <sup>132</sup>	52.500 <sup>173</sup>	36.50 <sup>72</sup>	56.235 <sup>161</sup>	46.94 <sup>46</sup>	29.53 <sup>60</sup>	82.83 <sup>176</sup>
26.3	31.122 <sup>279</sup>	97.55 <sup>86</sup>	52.327 <sup>188</sup>	37.22 <sup>40</sup>	56.074 <sup>174</sup>	47.40 <sup>21</sup>	28.93 <sup>64</sup>	84.59 <sup>127</sup>
Okt. 6.3	30.843 <sup>287</sup>	98.41 <sup>38</sup>	52.139 <sup>193</sup>	37.62 <sup>7</sup>	55.900 <sup>179</sup>	47.61 <sup>5</sup>	28.29 <sup>66</sup>	85.86 <sup>75</sup>
16.3	30.556 <sup>284</sup>	98.79 <sup>12</sup>	51.946 <sup>189</sup>	37.69 <sup>27</sup>	55.721 <sup>175</sup>	47.56 <sup>29</sup>	27.63 <sup>66</sup>	86.61 <sup>21</sup>
26.2	30.272 <sup>271</sup>	98.67 <sup>63</sup>	51.757 <sup>176</sup>	37.42 <sup>59</sup>	55.546 <sup>161</sup>	47.27 <sup>53</sup>	26.97 <sup>66</sup>	86.82 <sup>35</sup>
Nov. 5.2	30.001 <sup>247</sup>	98.04 <sup>112</sup>	51.581 <sup>154</sup>	36.83 <sup>92</sup>	55.385 <sup>140</sup>	46.74 <sup>76</sup>	26.31 <sup>62</sup>	86.47 <sup>92</sup>
15.2	29.754 <sup>214</sup>	96.92 <sup>161</sup>	51.427 <sup>127</sup>	35.91 <sup>123</sup>	55.245 <sup>112</sup>	45.98 <sup>99</sup>	25.69 <sup>56</sup>	85.55 <sup>148</sup>
25.1	29.540 <sup>175</sup>	95.31 <sup>204</sup>	51.300 <sup>93</sup>	34.68 <sup>150</sup>	55.133 <sup>79</sup>	44.99 <sup>119</sup>	25.13 <sup>50</sup>	84.07 <sup>199</sup>
Dez. 5.1	29.365 <sup>129</sup>	93.27 <sup>244</sup>	51.207 <sup>56</sup>	33.18 <sup>175</sup>	55.054 <sup>43</sup>	43.80 <sup>136</sup>	24.63 <sup>41</sup>	82.08 <sup>247</sup>
15.1	29.236 <sup>78</sup>	90.83 <sup>276</sup>	51.151 <sup>17</sup>	31.43 <sup>194</sup>	55.011 <sup>5</sup>	42.44 <sup>150</sup>	24.22 <sup>32</sup>	79.61 <sup>286</sup>
25.1	29.158 <sup>25</sup>	88.07 <sup>298</sup>	51.134 <sup>24</sup>	29.49 <sup>207</sup>	55.006 <sup>34</sup>	40.94 <sup>158</sup>	23.90 <sup>20</sup>	76.75 <sup>318</sup>
35.0	29.133	85.09	51.158	27.42	55.040	39.36	23.70	73.57
Mittl. Ort	28.492	65.19	49.229	9.68	52.798	21.93	27.09	50.96
sec $\delta$ , tg $\delta$	1.413	+0.998	1.054	+0.331	1.012	+0.152	2.933	+2.757

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

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	748) ε Pavonis		749) β Aquilae		750) ψ Cygni		751) θ <sup>1</sup> Sagittarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	19 <sup>h</sup> 51 <sup>m</sup>	-73° 6'	19 <sup>h</sup> 51 <sup>m</sup>	+6° 12'	19 <sup>h</sup> 53 <sup>m</sup>	+52° 13'	19 <sup>h</sup> 54 <sup>m</sup>	-35° 29'
Jan. 1.1	18.68 <sub>8</sub>	83.12 <sub>301</sub>	22.575 <sub>54</sub>	29.01 <sub>146</sub>	32.312 <sub>25</sub>	46.21 <sub>315</sub>	31.289 <sub>73</sub>	34.63 <sub>106</sub>
11.0	18.76 <sub>22</sub>	80.11 <sub>308</sub>	22.629 <sub>90</sub>	27.55 <sub>145</sub>	32.287 <sub>36</sub>	43.06 <sub>324</sub>	31.362 <sub>117</sub>	33.57 <sub>113</sub>
21.0	18.98 <sub>34</sub>	77.03 <sub>304</sub>	22.719 <sub>123</sub>	26.10 <sub>139</sub>	32.323 <sub>100</sub>	39.82 <sub>322</sub>	31.479 <sub>158</sub>	32.44 <sub>117</sub>
31.0	19.32 <sub>47</sub>	73.99 <sub>295</sub>	22.842 <sub>154</sub>	24.71 <sub>124</sub>	32.423 <sub>159</sub>	36.60 <sub>307</sub>	31.637 <sub>197</sub>	31.27 <sub>121</sub>
Feb. 9.9	19.79 <sub>57</sub>	71.04 <sub>277</sub>	22.996 <sub>183</sub>	23.47 <sub>104</sub>	32.582 <sub>217</sub>	33.53 <sub>280</sub>	31.834 <sub>230</sub>	30.06 <sub>123</sub>
19.9	20.36 <sub>66</sub>	68.27 <sub>254</sub>	23.179 <sub>208</sub>	22.43 <sub>78</sub>	32.799 <sub>269</sub>	30.73 <sub>241</sub>	32.064 <sub>259</sub>	28.83 <sub>124</sub>
29.9	21.02 <sub>74</sub>	65.73 <sub>227</sub>	23.387 <sub>231</sub>	21.65 <sub>47</sub>	33.068 <sub>314</sub>	28.32 <sub>194</sub>	32.323 <sub>286</sub>	27.59 <sub>123</sub>
März 10.9	21.76 <sub>80</sub>	63.46 <sub>196</sub>	23.618 <sub>250</sub>	21.18 <sub>14</sub>	33.382 <sub>351</sub>	26.38 <sub>139</sub>	32.609 <sub>308</sub>	26.36 <sub>121</sub>
20.8	22.56 <sub>85</sub>	61.50 <sub>158</sub>	23.868 <sub>267</sub>	21.04 <sub>21</sub>	33.733 <sub>382</sub>	24.99 <sub>78</sub>	32.917 <sub>326</sub>	25.15 <sub>118</sub>
30.8	23.41 <sub>89</sub>	59.92 <sub>121</sub>	24.135 <sub>280</sub>	21.25 <sub>56</sub>	34.115 <sub>401</sub>	24.21 <sub>15</sub>	33.243 <sub>342</sub>	23.97 <sub>112</sub>
Apr. 9.8	24.30 <sub>90</sub>	58.71 <sub>80</sub>	24.415 <sub>288</sub>	21.81 <sub>91</sub>	34.516 <sub>411</sub>	24.06 <sub>48</sub>	33.585 <sub>351</sub>	22.85 <sub>103</sub>
19.8	25.20 <sub>90</sub>	57.91 <sub>38</sub>	24.703 <sub>291</sub>	22.72 <sub>121</sub>	34.927 <sub>410</sub>	24.54 <sub>108</sub>	33.936 <sub>356</sub>	21.82 <sub>93</sub>
29.7	26.10 <sub>88</sub>	57.53 <sub>4</sub>	24.994 <sub>289</sub>	23.93 <sub>148</sub>	35.337 <sub>398</sub>	25.62 <sub>165</sub>	34.292 <sub>355</sub>	20.89 <sub>79</sub>
Mai 9.7	26.98 <sub>85</sub>	57.57 <sub>48</sub>	25.283 <sub>280</sub>	25.41 <sub>169</sub>	35.735 <sub>377</sub>	27.27 <sub>216</sub>	34.647 <sub>347</sub>	20.10 <sub>63</sub>
19.7	27.83 <sub>80</sub>	58.05 <sub>89</sub>	25.563 <sub>267</sub>	27.10 <sub>185</sub>	36.112 <sub>345</sub>	29.43 <sub>259</sub>	34.994 <sub>331</sub>	19.47 <sub>45</sub>
29.6	28.63 <sub>72</sub>	58.94 <sub>128</sub>	25.830 <sub>245</sub>	28.95 <sub>195</sub>	36.457 <sub>305</sub>	32.02 <sub>295</sub>	35.325 <sub>308</sub>	19.02 <sub>25</sub>
Juni 8.6	29.35 <sub>64</sub>	60.22 <sub>164</sub>	26.075 <sub>219</sub>	30.90 <sub>199</sub>	36.762 <sub>256</sub>	34.97 <sub>321</sub>	35.633 <sub>277</sub>	18.77 <sub>4</sub>
18.6	29.99 <sub>53</sub>	61.86 <sub>195</sub>	26.294 <sub>187</sub>	32.89 <sub>198</sub>	37.018 <sub>201</sub>	38.18 <sub>339</sub>	35.910 <sub>239</sub>	18.73 <sub>17</sub>
28.6	30.52 <sub>41</sub>	63.81 <sub>222</sub>	26.481 <sub>148</sub>	34.87 <sub>191</sub>	37.219 <sub>141</sub>	41.57 <sub>348</sub>	36.149 <sub>196</sub>	18.90 <sub>38</sub>
Juli 8.5	30.93 <sub>28</sub>	66.03 <sub>241</sub>	26.629 <sub>108</sub>	36.78 <sub>181</sub>	37.360 <sub>77</sub>	45.05 <sub>349</sub>	36.345 <sub>146</sub>	19.28 <sub>55</sub>
18.5	31.21 <sub>14</sub>	68.44 <sub>254</sub>	26.737 <sub>65</sub>	38.59 <sub>167</sub>	37.437 <sub>13</sub>	48.54 <sub>341</sub>	36.491 <sub>94</sub>	19.83 <sub>72</sub>
28.5	31.35 <sub>0</sub>	70.98 <sub>257</sub>	26.802 <sub>19</sub>	40.26 <sub>149</sub>	37.450 <sub>53</sub>	51.95 <sub>326</sub>	36.585 <sub>39</sub>	20.55 <sub>84</sub>
Aug. 7.5	31.35 <sub>13</sub>	73.55 <sub>251</sub>	26.821 <sub>23</sub>	41.75 <sub>129</sub>	37.397 <sub>115</sub>	55.21 <sub>304</sub>	36.624 <sub>15</sub>	21.39 <sub>93</sub>
17.4	31.22 <sub>27</sub>	76.06 <sub>238</sub>	26.798 <sub>65</sub>	43.04 <sub>108</sub>	37.282 <sub>172</sub>	58.25 <sub>275</sub>	36.609 <sub>67</sub>	22.32 <sub>97</sub>
27.4	30.95 <sub>40</sub>	78.44 <sub>214</sub>	26.733 <sub>102</sub>	44.12 <sub>86</sub>	37.110 <sub>224</sub>	61.00 <sub>241</sub>	36.542 <sub>114</sub>	23.29 <sub>96</sub>
Sept. 6.4	30.55 <sub>51</sub>	80.58 <sub>183</sub>	26.631 <sub>132</sub>	44.98 <sub>63</sub>	36.886 <sub>268</sub>	63.41 <sub>202</sub>	36.428 <sub>154</sub>	24.25 <sub>89</sub>
16.3	30.04 <sub>59</sub>	82.41 <sub>142</sub>	26.499 <sub>156</sub>	45.61 <sub>39</sub>	36.618 <sub>302</sub>	65.43 <sub>158</sub>	36.274 <sub>185</sub>	25.14 <sub>79</sub>
26.3	29.45 <sub>65</sub>	83.83 <sub>97</sub>	26.343 <sub>171</sub>	46.00 <sub>17</sub>	36.316 <sub>326</sub>	67.01 <sub>110</sub>	36.089 <sub>205</sub>	25.93 <sub>64</sub>
Okt. 6.3	28.80 <sub>68</sub>	84.80 <sub>46</sub>	26.172 <sub>177</sub>	46.17 <sub>6</sub>	35.990 <sub>339</sub>	68.11 <sub>61</sub>	35.884 <sub>214</sub>	26.57 <sub>46</sub>
16.3	28.12 <sub>68</sub>	85.26 <sub>7</sub>	25.995 <sub>174</sub>	46.11 <sub>29</sub>	35.651 <sub>338</sub>	68.72 <sub>8</sub>	35.670 <sub>211</sub>	27.03 <sub>25</sub>
26.2	27.44 <sub>65</sub>	85.19 <sub>62</sub>	25.821 <sub>161</sub>	45.82 <sub>50</sub>	35.313 <sub>328</sub>	68.80 <sub>45</sub>	35.459 <sub>197</sub>	27.28 <sub>4</sub>
Nov. 5.2	26.79 <sub>59</sub>	84.57 <sub>114</sub>	25.660 <sub>141</sub>	45.32 <sub>72</sub>	34.985 <sub>305</sub>	68.35 <sub>98</sub>	35.262 <sub>172</sub>	27.32 <sub>18</sub>
15.2	26.20 <sub>51</sub>	83.43 <sub>163</sub>	25.519 <sub>115</sub>	44.60 <sub>92</sub>	34.680 <sub>273</sub>	67.37 <sub>150</sub>	35.090 <sub>139</sub>	27.14 <sub>39</sub>
25.2	25.69 <sub>40</sub>	81.80 <sub>207</sub>	25.404 <sub>82</sub>	43.68 <sub>111</sub>	34.407 <sub>231</sub>	65.87 <sub>199</sub>	34.951 <sub>97</sub>	26.75 <sub>57</sub>
Dez. 5.1	25.29 <sub>28</sub>	79.73 <sub>243</sub>	25.322 <sub>46</sub>	42.57 <sub>126</sub>	34.176 <sub>182</sub>	63.88 <sub>241</sub>	34.854 <sub>53</sub>	26.18 <sub>73</sub>
15.1	25.01 <sub>14</sub>	77.30 <sub>272</sub>	25.276 <sub>10</sub>	41.31 <sub>139</sub>	33.994 <sub>126</sub>	61.47 <sub>278</sub>	34.801 <sub>6</sub>	25.45 <sub>87</sub>
25.1	24.87 <sub>1</sub>	74.58 <sub>291</sub>	25.266 <sub>28</sub>	39.92 <sub>146</sub>	33.868 <sub>66</sub>	58.69 <sub>306</sub>	34.795 <sub>42</sub>	24.58 <sub>98</sub>
35.0	24.86	71.67	25.294	38.46	33.802	55.63	34.837	23.60
Mittl. Ort sec δ, tg δ	21.77 3.445	84.50 -3.296	23.015 1.006	21.61 +0.109	33.716 1.632	33.62 +1.290	31.894 1.228	37.62 -0.713

Mittlere Zeit Greenw.	752) $\gamma$ Sagittae		754) $\delta$ Pavonis		756) $\theta$ Aquilae		757) $\alpha$ Cygni sq.	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	19 <sup>h</sup> 55 <sup>m</sup>	+19° 16'	20 <sup>h</sup> 0 <sup>m</sup>	-66° 22'	20 <sup>h</sup> 7 <sup>m</sup>	-1° 3'	20 <sup>h</sup> 11 <sup>m</sup>	+46° 29'
Jan. 1.1	11.408 <sup>38</sup>	35.42 <sup>210</sup>	51.47 <sup>7</sup>	74.81 <sup>270</sup>	10.283 <sup>44</sup>	28.33 <sup>101</sup>	5.708 <sup>30</sup>	66.16 <sup>295</sup>
11.0	11.446 <sup>76</sup>	33.32 <sup>211</sup>	51.54 <sup>16</sup>	72.11 <sup>278</sup>	10.327 <sup>79</sup>	29.34 <sup>98</sup>	5.678 <sup>23</sup>	63.21 <sup>306</sup>
21.0	11.522 <sup>112</sup>	31.21 <sup>205</sup>	51.70 <sup>25</sup>	69.33 <sup>280</sup>	10.406 <sup>112</sup>	30.32 <sup>90</sup>	5.701 <sup>78</sup>	60.15 <sup>307</sup>
31.0	11.634 <sup>147</sup>	29.16 <sup>190</sup>	51.95 <sup>34</sup>	66.53 <sup>273</sup>	10.518 <sup>143</sup>	31.22 <sup>79</sup>	5.779 <sup>131</sup>	57.08 <sup>295</sup>
Feb. 10.0	11.781 <sup>178</sup>	27.26 <sup>166</sup>	52.29 <sup>41</sup>	63.80 <sup>262</sup>	10.661 <sup>172</sup>	32.01 <sup>61</sup>	5.910 <sup>181</sup>	54.13 <sup>272</sup>
19.9	11.959 <sup>207</sup>	25.60 <sup>135</sup>	52.70 <sup>47</sup>	61.18 <sup>244</sup>	10.833 <sup>198</sup>	32.62 <sup>40</sup>	6.091 <sup>227</sup>	51.41 <sup>236</sup>
29.9	12.166 <sup>232</sup>	24.25 <sup>97</sup>	53.17 <sup>54</sup>	58.74 <sup>221</sup>	11.031 <sup>221</sup>	33.02 <sup>15</sup>	6.318 <sup>271</sup>	49.05 <sup>193</sup>
März 10.9	12.398 <sup>255</sup>	23.28 <sup>56</sup>	53.71 <sup>59</sup>	56.53 <sup>196</sup>	11.252 <sup>243</sup>	33.17 <sup>14</sup>	6.589 <sup>307</sup>	47.12 <sup>141</sup>
20.8	12.653 <sup>273</sup>	22.72 <sup>9</sup>	54.30 <sup>62</sup>	54.57 <sup>165</sup>	11.495 <sup>261</sup>	33.03 <sup>42</sup>	6.896 <sup>396</sup>	45.71 <sup>84</sup>
30.8	12.926 <sup>287</sup>	22.63 <sup>36</sup>	54.92 <sup>65</sup>	52.92 <sup>133</sup>	11.756 <sup>276</sup>	32.61 <sup>71</sup>	7.232 <sup>359</sup>	44.87 <sup>24</sup>
Apr. 9.8	13.213 <sup>296</sup>	22.99 <sup>81</sup>	55.57 <sup>67</sup>	51.59 <sup>96</sup>	12.032 <sup>287</sup>	31.90 <sup>97</sup>	7.591 <sup>373</sup>	44.63 <sup>38</sup>
19.8	13.509 <sup>299</sup>	23.80 <sup>123</sup>	56.24 <sup>67</sup>	50.63 <sup>59</sup>	12.319 <sup>293</sup>	30.93 <sup>122</sup>	7.964 <sup>377</sup>	45.01 <sup>96</sup>
29.7	13.808 <sup>296</sup>	25.03 <sup>161</sup>	56.91 <sup>67</sup>	50.04 <sup>20</sup>	12.612 <sup>293</sup>	29.71 <sup>142</sup>	8.341 <sup>372</sup>	45.97 <sup>152</sup>
Mai 9.7	14.104 <sup>287</sup>	26.64 <sup>193</sup>	57.58 <sup>65</sup>	49.84 <sup>20</sup>	12.905 <sup>288</sup>	28.29 <sup>157</sup>	8.713 <sup>359</sup>	47.49 <sup>202</sup>
19.7	14.391 <sup>271</sup>	28.57 <sup>219</sup>	58.23 <sup>61</sup>	50.04 <sup>59</sup>	13.193 <sup>277</sup>	26.72 <sup>168</sup>	9.072 <sup>335</sup>	49.51 <sup>245</sup>
29.7	14.662 <sup>249</sup>	30.76 <sup>238</sup>	58.84 <sup>56</sup>	50.63 <sup>97</sup>	13.470 <sup>258</sup>	25.04 <sup>173</sup>	9.407 <sup>302</sup>	51.96 <sup>280</sup>
Juni 8.6	14.911 <sup>220</sup>	33.14 <sup>250</sup>	59.40 <sup>51</sup>	51.60 <sup>132</sup>	13.728 <sup>234</sup>	23.31 <sup>173</sup>	9.709 <sup>263</sup>	54.76 <sup>309</sup>
18.6	15.131 <sup>185</sup>	35.64 <sup>255</sup>	59.91 <sup>43</sup>	52.92 <sup>164</sup>	13.962 <sup>203</sup>	21.58 <sup>168</sup>	9.972 <sup>216</sup>	57.85 <sup>327</sup>
28.6	15.316 <sup>147</sup>	38.19 <sup>254</sup>	60.34 <sup>35</sup>	54.56 <sup>193</sup>	14.165 <sup>167</sup>	19.90 <sup>160</sup>	10.188 <sup>164</sup>	61.12 <sup>338</sup>
Juli 8.5	15.463 <sup>103</sup>	40.73 <sup>247</sup>	60.69 <sup>25</sup>	56.49 <sup>213</sup>	14.332 <sup>128</sup>	18.30 <sup>147</sup>	10.352 <sup>107</sup>	64.50 <sup>340</sup>
18.5	15.566 <sup>58</sup>	43.20 <sup>233</sup>	60.94 <sup>15</sup>	58.62 <sup>229</sup>	14.460 <sup>83</sup>	16.83 <sup>132</sup>	10.459 <sup>49</sup>	67.90 <sup>334</sup>
28.5	15.624 <sup>13</sup>	45.53 <sup>216</sup>	61.09 <sup>4</sup>	60.91 <sup>236</sup>	14.543 <sup>39</sup>	15.51 <sup>115</sup>	10.508 <sup>11</sup>	71.24 <sup>321</sup>
Aug. 7.5	15.637 <sup>33</sup>	47.69 <sup>195</sup>	61.13 <sup>6</sup>	63.27 <sup>236</sup>	14.582 <sup>5</sup>	14.36 <sup>96</sup>	10.497 <sup>67</sup>	74.45 <sup>301</sup>
17.4	15.604 <sup>74</sup>	49.64 <sup>170</sup>	61.07 <sup>16</sup>	65.63 <sup>227</sup>	14.577 <sup>48</sup>	13.40 <sup>77</sup>	10.430 <sup>122</sup>	77.46 <sup>275</sup>
27.4	15.530 <sup>113</sup>	51.34 <sup>142</sup>	60.91 <sup>25</sup>	67.90 <sup>208</sup>	14.529 <sup>86</sup>	12.63 <sup>57</sup>	10.308 <sup>171</sup>	80.21 <sup>243</sup>
Sept. 6.4	15.417 <sup>145</sup>	52.76 <sup>112</sup>	60.66 <sup>34</sup>	69.98 <sup>183</sup>	14.443 <sup>118</sup>	12.06 <sup>39</sup>	10.137 <sup>213</sup>	82.64 <sup>207</sup>
16.4	15.272 <sup>168</sup>	53.88 <sup>80</sup>	60.32 <sup>40</sup>	71.81 <sup>148</sup>	14.325 <sup>145</sup>	11.67 <sup>21</sup>	9.924 <sup>247</sup>	84.71 <sup>165</sup>
26.3	15.104 <sup>185</sup>	54.68 <sup>48</sup>	59.92 <sup>44</sup>	73.29 <sup>109</sup>	14.180 <sup>162</sup>	11.46 <sup>4</sup>	9.677 <sup>272</sup>	86.36 <sup>121</sup>
Okt. 6.3	14.919 <sup>192</sup>	55.16 <sup>15</sup>	59.48 <sup>47</sup>	74.38 <sup>63</sup>	14.018 <sup>169</sup>	11.42 <sup>13</sup>	9.405 <sup>285</sup>	87.57 <sup>73</sup>
16.3	14.727 <sup>190</sup>	55.31 <sup>19</sup>	59.01 <sup>48</sup>	75.01 <sup>14</sup>	13.849 <sup>169</sup>	11.55 <sup>27</sup>	9.120 <sup>289</sup>	88.30 <sup>23</sup>
26.2	14.537 <sup>179</sup>	55.12 <sup>53</sup>	58.53 <sup>45</sup>	75.15 <sup>35</sup>	13.680 <sup>160</sup>	11.82 <sup>43</sup>	8.831 <sup>282</sup>	88.53 <sup>27</sup>
Nov. 5.2	14.358 <sup>159</sup>	54.59 <sup>86</sup>	58.08 <sup>41</sup>	74.80 <sup>85</sup>	13.520 <sup>141</sup>	12.25 <sup>56</sup>	8.549 <sup>264</sup>	88.26 <sup>79</sup>
15.2	14.199 <sup>133</sup>	53.73 <sup>117</sup>	57.67 <sup>36</sup>	73.95 <sup>131</sup>	13.379 <sup>116</sup>	12.81 <sup>69</sup>	8.285 <sup>238</sup>	87.47 <sup>129</sup>
25.2	14.066 <sup>101</sup>	52.56 <sup>147</sup>	57.31 <sup>28</sup>	72.64 <sup>172</sup>	13.263 <sup>87</sup>	13.50 <sup>80</sup>	8.047 <sup>204</sup>	86.18 <sup>177</sup>
Dez. 5.1	13.965 <sup>66</sup>	51.09 <sup>172</sup>	57.03 <sup>19</sup>	70.92 <sup>208</sup>	13.176 <sup>52</sup>	14.30 <sup>91</sup>	7.843 <sup>162</sup>	84.41 <sup>219</sup>
15.1	13.899 <sup>28</sup>	49.37 <sup>192</sup>	56.84 <sup>10</sup>	68.84 <sup>237</sup>	13.124 <sup>18</sup>	15.21 <sup>98</sup>	7.681 <sup>116</sup>	82.22 <sup>256</sup>
25.1	13.871 <sup>12</sup>	47.45 <sup>207</sup>	56.74 <sup>0</sup>	66.47 <sup>259</sup>	13.106 <sup>20</sup>	16.19 <sup>102</sup>	7.565 <sup>65</sup>	79.66 <sup>285</sup>
35.1	13.883	45.38	56.74	63.88	13.126	17.21	7.500	76.81
Mittl. Ort sec $\delta$ , tg $\delta$	11.940 1.059	26.34 +0.350	53.49 2.497	75.65 -2.288	10.664 1.000	35.00 -0.019	6.748 1.453	52.93 +1.054

Mittlere Zeit Greenw.	759) $\alpha$ Cephei		760) $\gamma$ Vulpeculae		761) $\alpha^2$ Capricorni		764) $\alpha$ Pavonis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	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° 47'	20 <sup>h</sup> 19 <sup>m</sup>	-56° 59'
Jan. 1.1	31.24 <sup>36</sup>	32.00 <sup>309</sup>	21.152 <sup>14</sup>	36.23 <sup>225</sup>	36.666 <sup>45</sup>	32.35 <sup>30</sup>	18.433 <sup>32</sup>	33.12 <sup>226</sup>
11.0	30.88 <sup>19</sup>	28.91 <sup>329</sup>	21.166 <sup>52</sup>	33.98 <sup>230</sup>	36.711 <sup>80</sup>	32.65 <sup>25</sup>	18.465 <sup>99</sup>	30.86 <sup>239</sup>
21.0	30.69 <sup>1</sup>	25.62 <sup>337</sup>	21.218 <sup>91</sup>	31.68 <sup>226</sup>	36.791 <sup>114</sup>	32.90 <sup>17</sup>	18.564 <sup>164</sup>	28.47 <sup>245</sup>
31.0	30.70 <sup>21</sup>	22.25 <sup>331</sup>	21.309 <sup>126</sup>	29.42 <sup>213</sup>	36.905 <sup>145</sup>	33.07 <sup>7</sup>	18.728 <sup>225</sup>	26.02 <sup>247</sup>
Feb. 10.0	30.91 <sup>39</sup>	18.94 <sup>313</sup>	21.435 <sup>162</sup>	27.29 <sup>191</sup>	37.050 <sup>175</sup>	33.14 <sup>7</sup>	18.953 <sup>280</sup>	23.55 <sup>242</sup>
19.9	31.30 <sup>56</sup>	15.81 <sup>282</sup>	21.597 <sup>194</sup>	25.38 <sup>160</sup>	37.225 <sup>201</sup>	33.07 <sup>22</sup>	19.233 <sup>331</sup>	21.13 <sup>233</sup>
29.9	31.86 <sup>71</sup>	12.99 <sup>241</sup>	21.791 <sup>223</sup>	23.78 <sup>122</sup>	37.426 <sup>225</sup>	32.85 <sup>40</sup>	19.564 <sup>375</sup>	18.80 <sup>220</sup>
März 10.9	32.57 <sup>84</sup>	10.58 <sup>190</sup>	22.014 <sup>249</sup>	22.56 <sup>78</sup>	37.651 <sup>247</sup>	32.45 <sup>58</sup>	19.939 <sup>414</sup>	16.60 <sup>202</sup>
20.8	33.41 <sup>94</sup>	8.68 <sup>131</sup>	22.263 <sup>271</sup>	21.78 <sup>30</sup>	37.898 <sup>266</sup>	31.87 <sup>77</sup>	20.353 <sup>447</sup>	14.58 <sup>182</sup>
30.8	34.35 <sup>100</sup>	7.37 <sup>70</sup>	22.534 <sup>289</sup>	21.48 <sup>18</sup>	38.164 <sup>282</sup>	31.10 <sup>94</sup>	20.800 <sup>474</sup>	12.76 <sup>157</sup>
Apr. 9.8	35.35 <sup>104</sup>	6.67 <sup>5</sup>	22.823 <sup>301</sup>	21.66 <sup>67</sup>	38.446 <sup>294</sup>	30.16 <sup>110</sup>	21.274 <sup>492</sup>	11.19 <sup>129</sup>
19.8	36.39 <sup>103</sup>	6.62 <sup>58</sup>	23.124 <sup>307</sup>	22.33 <sup>113</sup>	38.740 <sup>303</sup>	29.06 <sup>122</sup>	21.766 <sup>503</sup>	9.90 <sup>99</sup>
29.7	37.42 <sup>99</sup>	7.20 <sup>120</sup>	23.431 <sup>307</sup>	23.46 <sup>156</sup>	39.043 <sup>304</sup>	27.84 <sup>130</sup>	22.269 <sup>506</sup>	8.91 <sup>66</sup>
Mai 9.7	38.41 <sup>93</sup>	8.40 <sup>175</sup>	23.738 <sup>300</sup>	25.02 <sup>192</sup>	39.347 <sup>300</sup>	26.54 <sup>135</sup>	22.775 <sup>497</sup>	8.25 <sup>32</sup>
19.7	39.34 <sup>84</sup>	10.15 <sup>226</sup>	24.038 <sup>286</sup>	26.94 <sup>214</sup>	39.647 <sup>289</sup>	25.19 <sup>136</sup>	23.272 <sup>478</sup>	7.93 <sup>4</sup>
29.7	40.18 <sup>72</sup>	12.41 <sup>269</sup>	24.324 <sup>264</sup>	29.18 <sup>247</sup>	39.936 <sup>273</sup>	23.83 <sup>131</sup>	23.750 <sup>449</sup>	7.97 <sup>39</sup>
Juni 8.6	40.90 <sup>58</sup>	15.10 <sup>304</sup>	24.588 <sup>236</sup>	31.65 <sup>264</sup>	40.209 <sup>249</sup>	22.52 <sup>124</sup>	24.199 <sup>409</sup>	8.36 <sup>74</sup>
18.6	41.48 <sup>43</sup>	18.14 <sup>331</sup>	24.824 <sup>202</sup>	34.29 <sup>273</sup>	40.458 <sup>218</sup>	21.28 <sup>112</sup>	24.608 <sup>357</sup>	9.10 <sup>106</sup>
28.6	41.91 <sup>26</sup>	21.45 <sup>349</sup>	25.026 <sup>163</sup>	37.02 <sup>275</sup>	40.676 <sup>182</sup>	20.16 <sup>99</sup>	24.965 <sup>297</sup>	10.16 <sup>135</sup>
Juli 8.5	42.17 <sup>10</sup>	24.94 <sup>359</sup>	25.189 <sup>118</sup>	39.77 <sup>272</sup>	40.858 <sup>141</sup>	19.17 <sup>82</sup>	25.262 <sup>228</sup>	11.51 <sup>160</sup>
18.5	42.27 <sup>8</sup>	28.53 <sup>359</sup>	25.307 <sup>73</sup>	42.49 <sup>261</sup>	40.999 <sup>97</sup>	18.35 <sup>66</sup>	25.490 <sup>154</sup>	13.11 <sup>181</sup>
28.5	42.19 <sup>24</sup>	32.12 <sup>353</sup>	25.380 <sup>26</sup>	45.10 <sup>245</sup>	41.096 <sup>51</sup>	17.69 <sup>49</sup>	25.644 <sup>75</sup>	14.92 <sup>194</sup>
Aug. 7.5	41.95 <sup>40</sup>	35.65 <sup>338</sup>	25.406 <sup>21</sup>	47.55 <sup>224</sup>	41.147 <sup>5</sup>	17.20 <sup>31</sup>	25.719 <sup>3</sup>	16.86 <sup>200</sup>
17.4	41.55 <sup>56</sup>	39.03 <sup>317</sup>	25.385 <sup>66</sup>	49.79 <sup>199</sup>	41.152 <sup>39</sup>	16.89 <sup>16</sup>	25.716 <sup>82</sup>	18.86 <sup>199</sup>
27.4	40.99 <sup>69</sup>	42.20 <sup>288</sup>	25.319 <sup>106</sup>	51.78 <sup>172</sup>	41.113 <sup>79</sup>	16.73 <sup>2</sup>	25.634 <sup>153</sup>	20.85 <sup>190</sup>
Sept. 6.4	40.30 <sup>80</sup>	45.08 <sup>254</sup>	25.213 <sup>139</sup>	53.50 <sup>140</sup>	41.034 <sup>115</sup>	16.71 <sup>9</sup>	25.481 <sup>217</sup>	22.75 <sup>172</sup>
16.4	39.50 <sup>91</sup>	47.62 <sup>214</sup>	25.074 <sup>168</sup>	54.90 <sup>107</sup>	40.919 <sup>142</sup>	16.80 <sup>19</sup>	25.264 <sup>270</sup>	24.47 <sup>149</sup>
26.3	38.59 <sup>99</sup>	49.76 <sup>168</sup>	24.906 <sup>187</sup>	55.97 <sup>71</sup>	40.777 <sup>161</sup>	16.99 <sup>26</sup>	24.994 <sup>308</sup>	25.96 <sup>117</sup>
Okt. 6.3	37.60 <sup>104</sup>	51.44 <sup>119</sup>	24.719 <sup>196</sup>	56.68 <sup>35</sup>	40.616 <sup>171</sup>	17.25 <sup>31</sup>	24.686 <sup>332</sup>	27.13 <sup>81</sup>
16.3	36.56 <sup>107</sup>	52.63 <sup>66</sup>	24.523 <sup>198</sup>	57.03 <sup>3</sup>	40.445 <sup>171</sup>	17.56 <sup>35</sup>	24.354 <sup>337</sup>	27.94 <sup>41</sup>
26.2	35.49 <sup>107</sup>	53.29 <sup>10</sup>	24.325 <sup>190</sup>	57.00 <sup>40</sup>	40.274 <sup>162</sup>	17.91 <sup>37</sup>	24.017 <sup>328</sup>	28.35 <sup>2</sup>
Nov. 5.2	34.42 <sup>103</sup>	53.39 <sup>47</sup>	24.135 <sup>174</sup>	56.60 <sup>77</sup>	40.112 <sup>144</sup>	18.28 <sup>38</sup>	23.689 <sup>302</sup>	28.33 <sup>45</sup>
15.2	33.39 <sup>98</sup>	52.92 <sup>105</sup>	23.961 <sup>151</sup>	55.83 <sup>113</sup>	39.968 <sup>119</sup>	18.66 <sup>39</sup>	23.387 <sup>262</sup>	27.88 <sup>87</sup>
25.2	32.41 <sup>89</sup>	51.87 <sup>159</sup>	23.810 <sup>121</sup>	54.70 <sup>147</sup>	39.849 <sup>89</sup>	19.05 <sup>39</sup>	23.125 <sup>210</sup>	27.01 <sup>126</sup>
Dez. 5.1	31.52 <sup>78</sup>	50.28 <sup>211</sup>	23.689 <sup>88</sup>	53.23 <sup>177</sup>	39.760 <sup>54</sup>	19.44 <sup>39</sup>	22.915 <sup>149</sup>	25.75 <sup>160</sup>
15.1	30.74 <sup>63</sup>	48.17 <sup>256</sup>	23.601 <sup>52</sup>	51.46 <sup>201</sup>	39.706 <sup>18</sup>	19.83 <sup>38</sup>	22.766 <sup>84</sup>	24.15 <sup>189</sup>
25.1	30.11 <sup>48</sup>	45.61 <sup>294</sup>	23.549 <sup>13</sup>	49.45 <sup>220</sup>	39.688 <sup>20</sup>	20.21 <sup>35</sup>	22.682 <sup>14</sup>	22.26 <sup>213</sup>
35.1	29.63	42.67	23.536	47.25	39.708	20.56	22.668	20.13
Mittl. Ort	36.54	16.01	21.684	25.78	37.045	37.37	19.692	33.19
sec $\delta$ , tg $\delta$	4.610	+4.500	1.098	+0.454	1.025	-0.227	1.836	-1.539

Mittlere Zeit Greenw.	765) $\gamma$ Cygni		767) $\theta$ Cephei		768) $\varepsilon$ Delphini		769) $\alpha$ Indi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	20 <sup>h</sup> 19 <sup>m</sup>	+39° 59'	20 <sup>h</sup> 28 <sup>m</sup>	+62° 43'	20 <sup>h</sup> 29 <sup>m</sup>	+11° 1'	20 <sup>h</sup> 31 <sup>m</sup>	-47° 33'
Jan. 1.1	20.606	72.68	12.66	45.72	23.104	58.52	55.880	77.46
II.0	20.584	69.94	12.52	42.68	23.118	56.93	55.901	75.71
21.0	20.610	67.08	12.46	39.44	23.167	55.33	55.975	73.81
31.0	20.682	64.21	12.49	36.11	23.249	53.78	56.100	71.81
Feb. 10.0	20.801	61.46	12.59	32.83	23.365	52.35	56.272	69.76
19.9	20.964	58.93	12.79	29.73	23.511	51.11	56.490	67.69
29.9	21.169	56.72	13.06	26.92	23.686	50.12	56.747	65.64
März 10.9	21.412	54.93	13.40	24.52	23.889	49.44	57.042	63.63
20.9	21.688	53.63	13.81	22.62	24.118	49.11	57.371	61.72
30.8	21.993	52.88	14.27	21.31	24.368	49.16	57.728	59.93
Apr. 9.8	22.319	52.70	14.77	20.60	24.637	49.60	58.110	58.29
19.8	22.660	53.09	15.29	20.54	24.921	50.41	58.512	56.84
29.7	23.009	54.05	15.81	21.11	25.214	51.58	58.926	55.61
Mai 9.7	23.356	55.53	16.34	22.30	25.511	53.07	59.346	54.64
19.7	23.693	57.49	16.84	24.05	25.805	54.83	59.763	53.93
29.7	24.011	59.86	17.31	26.31	26.090	56.80	60.169	53.52
Juni 8.6	24.303	62.56	17.73	29.01	26.358	58.93	60.553	53.43
18.6	24.561	65.52	18.09	32.06	26.603	61.14	60.908	53.65
28.6	24.778	68.66	18.39	35.39	26.818	63.39	61.223	54.16
Juli 8.6	24.949	71.89	18.61	38.91	26.998	65.61	61.491	54.97
18.5	25.069	75.14	18.75	42.52	27.138	67.75	61.703	56.04
28.5	25.136	78.32	18.80	46.15	27.235	69.77	61.855	57.33
Aug. 7.5	25.149	81.38	18.77	49.71	27.288	71.62	61.943	58.79
17.4	25.109	84.24	18.66	53.13	27.295	73.27	61.966	60.37
27.4	25.018	86.85	18.47	56.33	27.259	74.70	61.925	62.00
Sept. 6.4	24.882	89.16	18.20	59.24	27.184	75.90	61.823	63.62
16.4	24.705	91.12	17.88	61.82	27.074	76.84	61.668	65.14
26.3	24.497	92.69	17.50	63.98	26.936	77.52	61.468	66.51
Okt. 6.3	24.265	93.84	17.08	65.70	26.778	77.94	61.235	67.66
16.3	24.020	94.54	16.64	66.93	26.608	78.10	60.981	68.53
26.3	23.770	94.77	16.18	67.62	26.436	77.99	60.720	69.10
Nov. 5.2	23.527	94.53	15.72	67.76	26.268	77.62	60.464	69.32
15.2	23.298	93.81	15.27	67.34	26.115	76.99	60.228	69.18
25.2	23.093	92.62	14.85	66.34	25.982	76.13	60.023	68.70
Dez. 5.1	22.918	90.99	14.47	64.80	25.875	75.04	59.856	67.88
15.1	22.780	88.95	14.15	62.75	25.798	73.75	59.737	66.77
25.1	22.683	86.56	13.88	60.24	25.754	72.30	59.669	65.38
35.1	22.630	83.91	13.69	57.36	25.744	70.74	59.654	63.78
Mittl. Ort sec $\delta$ , tg $\delta$	21.398 1.305	59.76 +0.839	14.52 2.182	29.52 +1.940	23.463 1.019	49.72 +0.195	56.722 1.482	77.55 -1.094



Mittlere Zeit Greenw.	770) 73 Draconis		771) β Delphini		773) υ Capricorni		774) α Delphini	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	20 <sup>h</sup> 32 <sup>m</sup>	+74° 40'	20 <sup>h</sup> 33 <sup>m</sup>	+14° 18'	20 <sup>h</sup> 35 <sup>m</sup>	-18° 24'	20 <sup>h</sup> 35 <sup>m</sup>	+15° 37'
Jan. I.I	31.02	67.97	47.489	67.03	29.511	72.71	54.972	54.02
II.I	30.68	65.00	47.497	65.31	29.536	72.65	54.975	52.25
21.0	30.48	61.78	47.539	63.55	29.596	72.52	55.014	50.43
31.0	30.43	58.44	47.615	61.84	29.691	72.28	55.087	48.65
Feb. 10.0	30.54	55.10	47.724	60.23	29.818	71.93	55.194	46.98
19.9	30.80	51.88	47.866	58.82	29.976	71.46	55.333	45.50
29.9	31.21	48.94	48.038	57.66	30.162	70.86	55.503	44.28
März 10.9	31.74	46.37	48.238	56.83	30.376	70.11	55.702	43.39
20.9	32.40	44.27	48.465	56.36	30.614	69.22	55.928	42.87
30.8	33.15	42.74	48.714	56.29	30.875	68.18	56.177	42.75
Apr. 9.8	33.96	41.80	48.984	56.64	31.155	67.02	56.447	43.05
19.8	34.81	41.51	49.269	57.39	31.451	65.77	56.732	43.77
29.8	35.67	41.85	49.565	58.52	31.759	64.44	57.029	44.89
Mai 9.7	36.53	42.82	49.864	60.00	32.072	63.09	57.329	46.36
19.7	37.34	44.36	50.161	61.78	32.385	61.74	57.628	48.14
29.7	38.09	46.44	50.449	63.80	32.691	60.44	57.917	50.18
Juni 8.6	38.75	48.99	50.720	66.00	32.982	59.23	58.190	52.41
18.6	39.31	51.92	50.969	68.32	33.252	58.14	58.440	54.78
28.6	39.75	55.15	51.187	70.70	33.493	57.21	58.660	57.20
Juli 8.6	40.06	58.61	51.370	73.06	33.699	56.45	58.845	59.62
18.5	40.23	62.21	51.513	75.37	33.865	55.87	58.989	61.99
28.5	40.27	65.86	51.613	77.55	33.986	55.50	59.090	64.24
Aug. 7.5	40.16	69.48	51.668	79.58	34.061	55.31	59.146	66.34
17.5	39.92	72.99	51.677	81.42	34.088	55.30	59.156	68.25
27.4	39.56	76.32	51.643	83.03	34.068	55.44	59.123	69.93
Sept. 6.4	39.07	79.39	51.569	84.39	34.005	55.71	59.049	71.36
16.4	38.47	82.15	51.459	85.49	33.905	56.09	58.940	72.53
26.3	37.79	84.53	51.321	86.31	33.772	56.53	58.802	73.41
Okt. 6.3	37.03	86.48	51.162	86.84	33.617	57.00	58.642	73.99
16.3	36.22	87.94	50.991	87.09	33.448	57.48	58.470	74.28
26.3	35.38	88.88	50.816	87.05	33.275	57.93	58.293	74.27
Nov. 5.2	34.53	89.27	50.645	86.71	33.108	58.35	58.121	73.96
15.2	33.69	89.08	50.487	86.10	32.954	58.71	57.961	73.35
25.2	32.89	88.30	50.349	85.21	32.823	59.01	57.821	72.46
Dez. 5.2	32.15	86.95	50.236	84.07	32.719	59.24	57.705	71.30
15.1	31.49	85.07	50.153	82.70	32.648	59.41	57.618	69.90
25.1	30.94	82.69	50.102	81.14	32.612	59.51	57.564	68.31
35.1	30.50	79.90	50.085	79.45	32.612	59.53	57.544	66.57
Mittl. Ort sec δ, tg δ	34.82 3.785	50.44 +3.650	47.852 1.032	57.57 +0.255	29.870 1.054	76.51 -0.333	55.334 1.038	44.29 +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.
1920	20 <sup>h</sup> 37 <sup>m</sup>	-66° 29'	20 <sup>h</sup> 38 <sup>m</sup>	+44° 59'	20 <sup>h</sup> 42 <sup>m</sup>	+33° 40'	20 <sup>h</sup> 43 <sup>m</sup>	-9° 46'
Jan. I.I	44.04	32.93 <sup>267</sup>	41.436 <sup>58</sup>	52.44 <sup>275</sup>	57.894 <sup>30</sup>	24.77 <sup>242</sup>	20.501 <sup>15</sup>	76.85 <sup>44</sup>
II.I	44.00 <sup>4</sup>	30.26 <sup>284</sup>	41.378 <sup>8</sup>	49.69 <sup>291</sup>	57.864 <sup>10</sup>	22.35 <sup>255</sup>	20.516 <sup>48</sup>	77.29 <sup>38</sup>
21.0	44.06 <sup>15</sup>	27.42 <sup>294</sup>	41.370 <sup>42</sup>	46.78 <sup>297</sup>	57.874 <sup>51</sup>	19.80 <sup>257</sup>	20.564 <sup>82</sup>	77.67 <sup>29</sup>
31.0	44.21 <sup>24</sup>	24.48 <sup>297</sup>	41.412 <sup>93</sup>	43.81 <sup>291</sup>	57.925 <sup>93</sup>	17.23 <sup>250</sup>	20.646 <sup>112</sup>	77.96 <sup>17</sup>
Feb. 10.0	44.45 <sup>32</sup>	21.51 <sup>292</sup>	41.505 <sup>144</sup>	40.90 <sup>273</sup>	58.018 <sup>133</sup>	14.73 <sup>232</sup>	20.758 <sup>143</sup>	78.13 <sup>3</sup>
19.9	44.77 <sup>39</sup>	18.59 <sup>281</sup>	41.649 <sup>191</sup>	38.17 <sup>244</sup>	58.151 <sup>172</sup>	12.41 <sup>203</sup>	20.901 <sup>171</sup>	78.16 <sup>16</sup>
29.9	45.16 <sup>46</sup>	15.78 <sup>265</sup>	41.840 <sup>236</sup>	35.73 <sup>204</sup>	58.323 <sup>209</sup>	10.38 <sup>167</sup>	21.072 <sup>198</sup>	78.00 <sup>35</sup>
März 10.9	45.62 <sup>51</sup>	13.13 <sup>244</sup>	42.076 <sup>276</sup>	33.69 <sup>157</sup>	58.532 <sup>243</sup>	8.71 <sup>122</sup>	21.270 <sup>223</sup>	77.65 <sup>56</sup>
20.9	46.13 <sup>56</sup>	10.69 <sup>217</sup>	42.352 <sup>311</sup>	32.12 <sup>104</sup>	58.775 <sup>272</sup>	7.49 <sup>73</sup>	21.493 <sup>247</sup>	77.09 <sup>77</sup>
30.8	46.69 <sup>61</sup>	8.52 <sup>186</sup>	42.663 <sup>339</sup>	31.08 <sup>46</sup>	59.047 <sup>297</sup>	6.76 <sup>21</sup>	21.740 <sup>267</sup>	76.32 <sup>98</sup>
Apr. 9.8	47.30 <sup>64</sup>	6.66 <sup>153</sup>	43.002 <sup>359</sup>	30.62 <sup>14</sup>	59.344 <sup>316</sup>	6.55 <sup>34</sup>	22.007 <sup>283</sup>	75.34 <sup>117</sup>
19.8	47.94 <sup>66</sup>	5.13 <sup>115</sup>	43.361 <sup>371</sup>	30.76 <sup>72</sup>	59.660 <sup>328</sup>	6.89 <sup>86</sup>	22.290 <sup>295</sup>	74.17 <sup>132</sup>
29.8	48.60 <sup>66</sup>	3.98 <sup>76</sup>	43.732 <sup>373</sup>	31.48 <sup>128</sup>	59.988 <sup>332</sup>	7.75 <sup>136</sup>	22.585 <sup>303</sup>	72.85 <sup>145</sup>
Mai 9.7	49.26 <sup>65</sup>	3.22 <sup>34</sup>	44.105 <sup>365</sup>	32.76 <sup>179</sup>	60.320 <sup>329</sup>	9.11 <sup>180</sup>	22.888 <sup>303</sup>	71.40 <sup>152</sup>
19.7	49.91 <sup>64</sup>	2.88 <sup>9</sup>	44.470 <sup>349</sup>	34.55 <sup>224</sup>	60.649 <sup>317</sup>	10.91 <sup>220</sup>	23.191 <sup>297</sup>	69.88 <sup>155</sup>
29.7	50.55 <sup>60</sup>	2.97 <sup>50</sup>	44.819 <sup>323</sup>	36.79 <sup>263</sup>	60.966 <sup>297</sup>	13.11 <sup>253</sup>	23.488 <sup>284</sup>	68.33 <sup>154</sup>
Juni 8.6	51.15 <sup>56</sup>	3.47 <sup>91</sup>	45.142 <sup>288</sup>	39.42 <sup>293</sup>	61.263 <sup>270</sup>	15.64 <sup>277</sup>	23.772 <sup>264</sup>	66.79 <sup>148</sup>
18.6	51.71 <sup>48</sup>	4.38 <sup>129</sup>	45.430 <sup>246</sup>	42.35 <sup>317</sup>	61.533 <sup>235</sup>	18.41 <sup>295</sup>	24.036 <sup>236</sup>	65.31 <sup>137</sup>
28.6	52.19 <sup>41</sup>	5.67 <sup>164</sup>	45.676 <sup>199</sup>	45.52 <sup>330</sup>	61.768 <sup>195</sup>	21.36 <sup>305</sup>	24.272 <sup>204</sup>	63.94 <sup>124</sup>
Juli 8.6	52.60 <sup>32</sup>	7.31 <sup>192</sup>	45.875 <sup>145</sup>	48.82 <sup>337</sup>	61.963 <sup>149</sup>	24.41 <sup>307</sup>	24.476 <sup>165</sup>	62.70 <sup>109</sup>
18.5	52.92 <sup>22</sup>	9.23 <sup>217</sup>	46.020 <sup>88</sup>	52.19 <sup>335</sup>	62.112 <sup>101</sup>	27.48 <sup>303</sup>	24.641 <sup>123</sup>	61.61 <sup>90</sup>
28.5	53.14 <sup>13</sup>	11.40 <sup>232</sup>	46.108 <sup>32</sup>	55.54 <sup>327</sup>	62.213 <sup>50</sup>	30.51 <sup>292</sup>	24.764 <sup>77</sup>	60.71 <sup>72</sup>
Aug. 7.5	53.27 <sup>1</sup>	13.72 <sup>240</sup>	46.140 <sup>26</sup>	58.81 <sup>310</sup>	62.263 <sup>1</sup>	33.43 <sup>274</sup>	24.841 <sup>13</sup>	59.99 <sup>52</sup>
17.5	53.28 <sup>9</sup>	16.12 <sup>239</sup>	46.114 <sup>81</sup>	61.91 <sup>287</sup>	62.262 <sup>49</sup>	36.17 <sup>252</sup>	24.873 <sup>32</sup>	59.47 <sup>34</sup>
27.4	53.19 <sup>19</sup>	18.51 <sup>230</sup>	46.033 <sup>131</sup>	64.78 <sup>260</sup>	62.213 <sup>93</sup>	38.69 <sup>224</sup>	24.860 <sup>55</sup>	59.13 <sup>17</sup>
Sept. 6.4	53.00 <sup>28</sup>	20.81 <sup>211</sup>	45.902 <sup>176</sup>	67.38 <sup>226</sup>	62.120 <sup>134</sup>	40.93 <sup>193</sup>	24.805 <sup>92</sup>	58.96 <sup>1</sup>
16.4	52.72 <sup>36</sup>	22.92 <sup>183</sup>	45.726 <sup>213</sup>	69.64 <sup>188</sup>	61.986 <sup>166</sup>	42.86 <sup>158</sup>	24.713 <sup>122</sup>	58.95 <sup>12</sup>
26.3	52.36 <sup>41</sup>	24.75 <sup>147</sup>	45.513 <sup>241</sup>	71.52 <sup>147</sup>	61.820 <sup>191</sup>	44.44 <sup>119</sup>	24.591 <sup>145</sup>	59.07 <sup>22</sup>
Okt. 6.3	51.95 <sup>46</sup>	26.22 <sup>106</sup>	45.272 <sup>260</sup>	72.99 <sup>100</sup>	61.629 <sup>208</sup>	45.63 <sup>80</sup>	24.446 <sup>159</sup>	59.29 <sup>32</sup>
16.3	51.49 <sup>48</sup>	27.28 <sup>59</sup>	45.012 <sup>269</sup>	73.99 <sup>53</sup>	61.421 <sup>214</sup>	46.43 <sup>36</sup>	24.287 <sup>165</sup>	59.61 <sup>38</sup>
26.3	51.01 <sup>48</sup>	27.87 <sup>8</sup>	44.743 <sup>268</sup>	74.52 <sup>3</sup>	61.207 <sup>213</sup>	46.79 <sup>7</sup>	24.122 <sup>160</sup>	59.99 <sup>43</sup>
Nov. 5.2	50.53 <sup>45</sup>	27.95 <sup>43</sup>	44.475 <sup>257</sup>	74.55 <sup>48</sup>	60.994 <sup>203</sup>	46.72 <sup>50</sup>	23.962 <sup>148</sup>	60.42 <sup>48</sup>
15.2	50.08 <sup>40</sup>	27.52 <sup>94</sup>	44.218 <sup>237</sup>	74.07 <sup>98</sup>	60.791 <sup>185</sup>	46.22 <sup>94</sup>	23.814 <sup>128</sup>	60.90 <sup>50</sup>
25.2	49.68 <sup>35</sup>	26.58 <sup>141</sup>	43.981 <sup>210</sup>	73.09 <sup>146</sup>	60.606 <sup>160</sup>	45.28 <sup>135</sup>	23.686 <sup>104</sup>	61.40 <sup>51</sup>
Dez. 5.2	49.33 <sup>27</sup>	25.17 <sup>183</sup>	43.771 <sup>175</sup>	71.63 <sup>191</sup>	60.446 <sup>130</sup>	43.93 <sup>174</sup>	23.582 <sup>74</sup>	61.91 <sup>52</sup>
15.1	49.06 <sup>19</sup>	23.34 <sup>220</sup>	43.596 <sup>135</sup>	69.72 <sup>230</sup>	60.316 <sup>95</sup>	42.19 <sup>206</sup>	23.508 <sup>42</sup>	62.43 <sup>51</sup>
25.1	48.87 <sup>9</sup>	21.14 <sup>250</sup>	43.461 <sup>90</sup>	67.42 <sup>263</sup>	60.221 <sup>58</sup>	40.13 <sup>232</sup>	23.466 <sup>8</sup>	62.94 <sup>49</sup>
35.1	48.78	18.64	43.371	64.79	60.163	37.81	23.458	63.43
Mittl. Ort sec <sup>d</sup> , tg <sup>d</sup>	46.03 2.507	31.25 -2.299	42.251 1.414	37.73 +1.000	58.427 1.202	11.64 +0.666	20.799 1.015	82.00 -0.173

Mittlere Zeit Greenw.	783) $\eta$ Cephei		784) $\lambda$ Cygni		785) $\beta$ Indi		786) $\zeta$ Vulpeculae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	20 <sup>h</sup> 43 <sup>m</sup>	+61° 31'	20 <sup>h</sup> 44 <sup>m</sup>	+36° 11'	20 <sup>h</sup> 48 <sup>m</sup>	-58° 44'	20 <sup>h</sup> 51 <sup>m</sup>	+27° 45'
Jan. I.I	38.31 <sub>16</sub>	56.76 <sub>290</sub>	16.929 <sub>39</sub>	59.62 <sub>249</sub>	32.715 <sub>28</sub>	87.19 <sub>229</sub>	8.587 <sub>27</sub>	21.95 <sub>219</sub>
II.I	38.15 <sub>8</sub>	53.86 <sub>313</sub>	16.890 <sub>4</sub>	57.13 <sub>264</sub>	32.687 <sub>42</sub>	84.90 <sub>247</sub>	8.560 <sub>10</sub>	19.76 <sub>230</sub>
21.0	38.07 <sub>0</sub>	50.73 <sub>325</sub>	16.894 <sub>46</sub>	54.49 <sub>268</sub>	32.729 <sub>109</sub>	82.43 <sub>261</sub>	8.570 <sub>47</sub>	17.46 <sub>232</sub>
31.0	38.07 <sub>8</sub>	47.48 <sub>324</sub>	16.940 <sub>90</sub>	51.81 <sub>260</sub>	32.838 <sub>175</sub>	79.82 <sub>267</sub>	8.617 <sub>85</sub>	15.14 <sub>224</sub>
Feb. 10.0	38.15 <sub>16</sub>	44.24 <sub>311</sub>	17.030 <sub>131</sub>	49.21 <sub>243</sub>	33.013 <sub>235</sub>	77.15 <sub>267</sub>	8.702 <sub>123</sub>	12.90 <sub>207</sub>
20.0	38.31 <sub>24</sub>	41.13 <sub>284</sub>	17.161 <sub>173</sub>	46.78 <sub>214</sub>	33.248 <sub>292</sub>	74.48 <sub>263</sub>	8.825 <sub>159</sub>	10.83 <sub>181</sub>
29.9	38.55 <sub>31</sub>	38.29 <sub>246</sub>	17.334 <sub>211</sub>	44.64 <sub>178</sub>	33.540 <sub>343</sub>	71.85 <sub>253</sub>	8.984 <sub>194</sub>	9.02 <sub>147</sub>
März 10.9	38.86 <sub>37</sub>	35.83 <sub>198</sub>	17.545 <sub>246</sub>	42.86 <sub>133</sub>	33.883 <sub>391</sub>	69.32 <sub>238</sub>	9.178 <sub>225</sub>	7.55 <sub>104</sub>
20.9	39.23 <sub>43</sub>	33.85 <sub>144</sub>	17.791 <sub>276</sub>	41.53 <sub>82</sub>	34.274 <sub>431</sub>	66.94 <sub>219</sub>	9.403 <sub>255</sub>	6.51 <sub>59</sub>
30.8	39.66 <sub>47</sub>	32.41 <sub>84</sub>	18.067 <sub>303</sub>	40.71 <sub>29</sub>	34.705 <sub>466</sub>	64.75 <sub>195</sub>	9.658 <sub>279</sub>	5.92 <sub>10</sub>
Apr. 9.8	40.13 <sub>50</sub>	31.57 <sub>20</sub>	18.370 <sub>322</sub>	40.42 <sub>27</sub>	35.171 <sub>494</sub>	62.80 <sub>167</sub>	9.937 <sub>298</sub>	5.82 <sub>40</sub>
19.8	40.63 <sub>51</sub>	31.37 <sub>43</sub>	18.692 <sub>335</sub>	40.69 <sub>80</sub>	35.665 <sub>514</sub>	61.13 <sub>136</sub>	10.235 <sub>312</sub>	6.22 <sub>89</sub>
29.8	41.14 <sub>51</sub>	31.80 <sub>104</sub>	19.027 <sub>339</sub>	41.49 <sub>132</sub>	36.179 <sub>524</sub>	59.77 <sub>102</sub>	10.547 <sub>318</sub>	7.11 <sub>134</sub>
Mai 9.7	41.65 <sub>50</sub>	32.84 <sub>162</sub>	19.366 <sub>335</sub>	42.81 <sub>178</sub>	36.703 <sub>523</sub>	58.75 <sub>66</sub>	10.865 <sub>318</sub>	8.45 <sub>176</sub>
19.7	42.15 <sub>47</sub>	34.46 <sub>214</sub>	19.701 <sub>323</sub>	44.59 <sub>219</sub>	37.226 <sub>512</sub>	58.09 <sub>27</sub>	11.183 <sub>308</sub>	10.21 <sub>212</sub>
29.7	42.62 <sub>43</sub>	36.60 <sub>260</sub>	20.024 <sub>303</sub>	46.78 <sub>254</sub>	37.738 <sub>489</sub>	57.82 <sub>12</sub>	11.491 <sub>292</sub>	12.33 <sub>240</sub>
Juni 8.7	43.05 <sub>38</sub>	39.20 <sub>297</sub>	20.327 <sub>274</sub>	49.32 <sub>280</sub>	38.227 <sub>453</sub>	57.94 <sub>50</sub>	11.783 <sub>268</sub>	14.73 <sub>263</sub>
18.6	43.43 <sub>31</sub>	42.17 <sub>328</sub>	20.601 <sub>238</sub>	52.12 <sub>299</sub>	38.680 <sub>406</sub>	58.44 <sub>88</sub>	12.051 <sub>237</sub>	17.36 <sub>278</sub>
28.6	43.74 <sub>24</sub>	45.45 <sub>349</sub>	20.839 <sub>197</sub>	55.11 <sub>310</sub>	39.086 <sub>348</sub>	59.32 <sub>122</sub>	12.288 <sub>199</sub>	20.14 <sub>286</sub>
Juli 8.6	43.98 <sub>17</sub>	48.94 <sub>361</sub>	21.036 <sub>150</sub>	58.21 <sub>314</sub>	39.434 <sub>282</sub>	60.54 <sub>153</sub>	12.487 <sub>157</sub>	23.00 <sub>286</sub>
18.5	44.15 <sub>9</sub>	52.55 <sub>365</sub>	21.186 <sub>101</sub>	61.35 <sub>311</sub>	39.716 <sub>206</sub>	62.07 <sub>178</sub>	12.644 <sub>111</sub>	25.86 <sub>281</sub>
28.5	44.24 <sub>1</sub>	56.20 <sub>362</sub>	21.287 <sub>48</sub>	64.46 <sub>300</sub>	39.922 <sub>126</sub>	63.85 <sub>198</sub>	12.755 <sub>63</sub>	28.67 <sub>270</sub>
Aug. 7.5	44.25 <sub>8</sub>	59.82 <sub>350</sub>	21.335 <sub>3</sub>	67.46 <sub>284</sub>	40.048 <sub>43</sub>	65.83 <sub>211</sub>	12.818 <sub>15</sub>	31.37 <sub>251</sub>
17.5	44.17 <sub>14</sub>	63.32 <sub>331</sub>	21.332 <sub>53</sub>	70.30 <sub>261</sub>	40.091 <sub>40</sub>	67.94 <sub>215</sub>	12.833 <sub>31</sub>	33.88 <sub>230</sub>
27.4	44.03 <sub>22</sub>	66.63 <sub>305</sub>	21.279 <sub>98</sub>	72.91 <sub>233</sub>	40.051 <sub>189</sub>	70.09 <sub>211</sub>	12.802 <sub>75</sub>	36.18 <sub>204</sub>
Sept. 6.4	43.81 <sub>29</sub>	69.68 <sub>272</sub>	21.181 <sub>140</sub>	75.24 <sub>202</sub>	39.932 <sub>190</sub>	72.20 <sub>199</sub>	12.727 <sub>114</sub>	38.22 <sub>174</sub>
16.4	43.52 <sub>33</sub>	72.40 <sub>235</sub>	21.041 <sub>173</sub>	77.26 <sub>166</sub>	39.742 <sub>252</sub>	74.19 <sub>178</sub>	12.613 <sub>146</sub>	39.96 <sub>141</sub>
26.4	43.19 <sub>38</sub>	74.75 <sub>191</sub>	20.868 <sub>199</sub>	78.92 <sub>127</sub>	39.490 <sub>301</sub>	75.97 <sub>149</sub>	12.467 <sub>171</sub>	41.37 <sub>106</sub>
Okt. 6.3	42.81 <sub>41</sub>	76.66 <sub>142</sub>	20.669 <sub>216</sub>	80.19 <sub>86</sub>	39.189 <sub>334</sub>	77.46 <sub>115</sub>	12.296 <sub>187</sub>	42.43 <sub>69</sub>
16.3	42.40 <sub>43</sub>	78.08 <sub>92</sub>	20.453 <sub>224</sub>	81.05 <sub>42</sub>	38.855 <sub>351</sub>	78.61 <sub>74</sub>	12.109 <sub>195</sub>	43.12 <sub>31</sub>
26.3	41.97 <sub>44</sub>	79.00 <sub>36</sub>	20.229 <sub>223</sub>	81.47 <sub>3</sub>	38.504 <sub>351</sub>	79.35 <sub>30</sub>	11.914 <sub>194</sub>	43.43 <sub>9</sub>
Nov. 5.2	41.53 <sub>42</sub>	79.36 <sub>20</sub>	20.006 <sub>213</sub>	81.44 <sub>49</sub>	38.153 <sub>335</sub>	79.65 <sub>15</sub>	11.720 <sub>185</sub>	43.34 <sub>48</sub>
15.2	41.11 <sub>41</sub>	79.16 <sub>77</sub>	19.793 <sub>196</sub>	80.95 <sub>94</sub>	37.818 <sub>302</sub>	79.50 <sub>61</sub>	11.535 <sub>169</sub>	42.86 <sub>87</sub>
25.2	40.70 <sub>37</sub>	78.39 <sub>133</sub>	19.597 <sub>170</sub>	80.01 <sub>136</sub>	37.516 <sub>258</sub>	78.89 <sub>105</sub>	11.366 <sub>146</sub>	41.99 <sub>124</sub>
Dez. 5.2	40.33 <sub>32</sub>	77.06 <sub>185</sub>	19.427 <sub>141</sub>	78.65 <sub>177</sub>	37.258 <sub>203</sub>	77.84 <sub>145</sub>	11.220 <sub>118</sub>	40.75 <sub>157</sub>
15.1	40.01 <sub>27</sub>	75.21 <sub>233</sub>	19.286 <sub>105</sub>	76.88 <sub>211</sub>	37.055 <sub>140</sub>	76.39 <sub>181</sub>	11.102 <sub>87</sub>	39.18 <sub>188</sub>
25.1	39.74 <sub>20</sub>	72.88 <sub>271</sub>	19.181 <sub>66</sub>	74.77 <sub>239</sub>	36.915 <sub>72</sub>	74.58 <sub>210</sub>	11.015 <sub>53</sub>	37.30 <sub>211</sub>
35.1	39.54	70.17	19.115	72.38	36.843	72.48	10.962	35.19
Mittl. Ort sec $\delta$ , tg $\delta$	39.90 2.098	39.60 +1.844	17.499 1.239	46.00 +0.732	34.031 1.928	85.29 -1.648	8.994 1.130	9.56 +0.526

Mittlere Zeit Greenw.	788) $\vee$ Cygni		790) $\zeta$ Microscopii		793) $\delta$ Cygni pr.*)		794) $\vee$ Aquarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	20 <sup>h</sup> 54 <sup>m</sup>	+40° 51'	20 <sup>h</sup> 57 <sup>m</sup>	-38° 56'	21 <sup>h</sup> 3 <sup>m</sup>	+38° 21'	21 <sup>h</sup> 5 <sup>m</sup>	-11° 41'
Jan. 1.1	10.789 <sup>62</sup>	45.33 <sup>256</sup>	50.920 <sup>5</sup>	41.60 <sup>122</sup>	18.068 <sup>50</sup>	33.75 <sup>236</sup>	14.058 <sup>4</sup>	42.51 <sup>31</sup>
11.1	10.727 <sup>17</sup>	42.77 <sup>273</sup>	50.915 <sup>38</sup>	40.38 <sup>140</sup>	18.018 <sup>8</sup>	31.39 <sup>253</sup>	14.054 <sup>28</sup>	42.82 <sup>23</sup>
21.1	10.710 <sup>28</sup>	40.04 <sup>281</sup>	50.953 <sup>80</sup>	38.98 <sup>153</sup>	18.010 <sup>34</sup>	28.86 <sup>260</sup>	14.082 <sup>60</sup>	43.05 <sup>13</sup>
31.0	10.738 <sup>75</sup>	37.23 <sup>276</sup>	51.033 <sup>120</sup>	37.45 <sup>166</sup>	18.044 <sup>80</sup>	26.26 <sup>256</sup>	14.142 <sup>91</sup>	43.18 <sup>30</sup>
Feb. 10.0	10.813 <sup>122</sup>	34.47 <sup>260</sup>	51.153 <sup>160</sup>	35.79 <sup>174</sup>	18.124 <sup>123</sup>	23.70 <sup>242</sup>	14.233 <sup>122</sup>	43.18 <sup>14</sup>
20.0	10.935 <sup>166</sup>	31.87 <sup>235</sup>	51.313 <sup>196</sup>	34.05 <sup>180</sup>	18.247 <sup>166</sup>	21.28 <sup>216</sup>	14.355 <sup>152</sup>	43.04 <sup>32</sup>
29.9	11.101 <sup>209</sup>	29.52 <sup>198</sup>	51.509 <sup>231</sup>	32.25 <sup>184</sup>	18.413 <sup>208</sup>	19.12 <sup>181</sup>	14.507 <sup>180</sup>	42.72 <sup>51</sup>
März 10.9	11.310 <sup>249</sup>	27.54 <sup>155</sup>	51.740 <sup>263</sup>	30.41 <sup>183</sup>	18.621 <sup>247</sup>	17.31 <sup>138</sup>	14.687 <sup>207</sup>	42.21 <sup>71</sup>
20.9	11.559 <sup>284</sup>	25.99 <sup>103</sup>	52.003 <sup>293</sup>	28.58 <sup>181</sup>	18.868 <sup>281</sup>	15.93 <sup>89</sup>	14.894 <sup>234</sup>	41.50 <sup>92</sup>
30.9	11.843 <sup>313</sup>	24.96 <sup>49</sup>	52.296 <sup>320</sup>	26.77 <sup>176</sup>	19.149 <sup>311</sup>	15.04 <sup>35</sup>	15.128 <sup>257</sup>	40.58 <sup>110</sup>
Apr. 9.8	12.156 <sup>335</sup>	24.47 <sup>9</sup>	52.616 <sup>341</sup>	25.01 <sup>165</sup>	19.460 <sup>334</sup>	14.69 <sup>19</sup>	15.385 <sup>277</sup>	39.48 <sup>127</sup>
19.8	12.491 <sup>351</sup>	24.56 <sup>64</sup>	52.957 <sup>359</sup>	23.36 <sup>153</sup>	19.794 <sup>349</sup>	14.88 <sup>75</sup>	15.662 <sup>293</sup>	38.21 <sup>142</sup>
29.8	12.842 <sup>356</sup>	25.20 <sup>118</sup>	53.316 <sup>369</sup>	21.83 <sup>136</sup>	20.143 <sup>358</sup>	15.63 <sup>127</sup>	15.955 <sup>303</sup>	36.79 <sup>152</sup>
Mai 9.8	13.198 <sup>354</sup>	26.38 <sup>169</sup>	53.685 <sup>372</sup>	20.47 <sup>115</sup>	20.501 <sup>356</sup>	16.90 <sup>176</sup>	16.258 <sup>307</sup>	35.27 <sup>157</sup>
19.7	13.552 <sup>343</sup>	28.07 <sup>213</sup>	54.057 <sup>368</sup>	19.32 <sup>91</sup>	20.857 <sup>347</sup>	18.66 <sup>219</sup>	16.565 <sup>305</sup>	33.70 <sup>160</sup>
29.7	13.895 <sup>321</sup>	30.20 <sup>251</sup>	54.425 <sup>355</sup>	18.41 <sup>66</sup>	21.204 <sup>328</sup>	20.85 <sup>256</sup>	16.870 <sup>295</sup>	32.10 <sup>156</sup>
Juni 8.7	14.216 <sup>292</sup>	32.71 <sup>281</sup>	54.780 <sup>333</sup>	17.75 <sup>37</sup>	21.532 <sup>301</sup>	23.41 <sup>286</sup>	17.165 <sup>278</sup>	30.54 <sup>149</sup>
18.6	14.508 <sup>255</sup>	35.52 <sup>304</sup>	55.113 <sup>303</sup>	17.38 <sup>9</sup>	21.833 <sup>266</sup>	26.27 <sup>307</sup>	17.443 <sup>253</sup>	29.05 <sup>137</sup>
28.6	14.763 <sup>212</sup>	38.56 <sup>319</sup>	55.416 <sup>264</sup>	17.29 <sup>21</sup>	22.099 <sup>225</sup>	29.34 <sup>322</sup>	17.696 <sup>222</sup>	27.68 <sup>122</sup>
Juli 8.6	14.975 <sup>164</sup>	41.75 <sup>326</sup>	55.680 <sup>218</sup>	17.50 <sup>48</sup>	22.324 <sup>179</sup>	32.56 <sup>329</sup>	17.918 <sup>186</sup>	26.46 <sup>105</sup>
18.6	15.139 <sup>111</sup>	45.01 <sup>325</sup>	55.898 <sup>168</sup>	17.98 <sup>74</sup>	22.503 <sup>129</sup>	35.85 <sup>327</sup>	18.104 <sup>144</sup>	25.41 <sup>85</sup>
28.5	15.250 <sup>57</sup>	48.26 <sup>318</sup>	56.066 <sup>112</sup>	18.72 <sup>97</sup>	22.632 <sup>76</sup>	39.12 <sup>319</sup>	18.248 <sup>99</sup>	24.56 <sup>65</sup>
Aug. 7.5	15.307 <sup>2</sup>	51.44 <sup>303</sup>	56.178 <sup>54</sup>	19.69 <sup>114</sup>	22.708 <sup>23</sup>	42.31 <sup>305</sup>	18.347 <sup>54</sup>	23.91 <sup>44</sup>
17.5	15.309 <sup>50</sup>	54.47 <sup>282</sup>	56.232 <sup>2</sup>	20.83 <sup>126</sup>	22.731 <sup>28</sup>	45.36 <sup>284</sup>	18.401 <sup>7</sup>	23.47 <sup>25</sup>
27.4	15.259 <sup>99</sup>	57.29 <sup>256</sup>	56.230 <sup>56</sup>	22.09 <sup>134</sup>	22.703 <sup>76</sup>	48.20 <sup>259</sup>	18.408 <sup>35</sup>	23.22 <sup>7</sup>
Sept. 6.4	15.160 <sup>142</sup>	59.85 <sup>225</sup>	56.174 <sup>106</sup>	23.43 <sup>134</sup>	22.627 <sup>119</sup>	50.79 <sup>227</sup>	18.373 <sup>74</sup>	23.15 <sup>9</sup>
16.4	15.018 <sup>180</sup>	62.10 <sup>188</sup>	56.068 <sup>148</sup>	24.77 <sup>129</sup>	22.508 <sup>155</sup>	53.06 <sup>193</sup>	18.299 <sup>107</sup>	23.24 <sup>23</sup>
26.4	14.838 <sup>208</sup>	63.98 <sup>150</sup>	55.920 <sup>180</sup>	26.06 <sup>117</sup>	22.353 <sup>184</sup>	54.99 <sup>154</sup>	18.192 <sup>133</sup>	23.47 <sup>32</sup>
Okt. 6.3	14.630 <sup>229</sup>	65.48 <sup>106</sup>	55.740 <sup>204</sup>	27.23 <sup>99</sup>	22.169 <sup>204</sup>	56.53 <sup>113</sup>	18.059 <sup>150</sup>	23.79 <sup>41</sup>
16.3	14.401 <sup>239</sup>	66.54 <sup>61</sup>	55.536 <sup>214</sup>	28.22 <sup>78</sup>	21.965 <sup>215</sup>	57.66 <sup>69</sup>	17.909 <sup>159</sup>	24.20 <sup>46</sup>
26.3	14.162 <sup>241</sup>	67.15 <sup>14</sup>	55.322 <sup>213</sup>	29.00 <sup>52</sup>	21.750 <sup>218</sup>	58.35 <sup>24</sup>	17.750 <sup>159</sup>	24.66 <sup>49</sup>
Nov. 5.3	13.921 <sup>234</sup>	67.29 <sup>35</sup>	55.109 <sup>203</sup>	29.52 <sup>25</sup>	21.532 <sup>211</sup>	58.59 <sup>23</sup>	17.591 <sup>151</sup>	25.15 <sup>50</sup>
15.2	13.687 <sup>217</sup>	66.94 <sup>82</sup>	54.906 <sup>181</sup>	29.77 <sup>4</sup>	21.321 <sup>196</sup>	58.36 <sup>70</sup>	17.440 <sup>134</sup>	25.65 <sup>50</sup>
25.2	13.470 <sup>195</sup>	66.12 <sup>129</sup>	54.725 <sup>153</sup>	29.73 <sup>32</sup>	21.125 <sup>175</sup>	57.66 <sup>114</sup>	17.306 <sup>113</sup>	26.15 <sup>48</sup>
Dez. 5.2	13.275 <sup>164</sup>	64.83 <sup>173</sup>	54.572 <sup>116</sup>	29.41 <sup>60</sup>	20.950 <sup>147</sup>	56.52 <sup>156</sup>	17.193 <sup>87</sup>	26.63 <sup>46</sup>
15.1	13.111 <sup>130</sup>	63.10 <sup>211</sup>	54.456 <sup>77</sup>	28.81 <sup>84</sup>	20.803 <sup>113</sup>	54.96 <sup>192</sup>	17.106 <sup>57</sup>	27.09 <sup>43</sup>
25.1	12.981 <sup>90</sup>	60.99 <sup>242</sup>	54.379 <sup>34</sup>	27.97 <sup>107</sup>	20.690 <sup>77</sup>	53.04 <sup>224</sup>	17.049 <sup>26</sup>	27.52 <sup>38</sup>
35.1	12.891	58.57	54.345	26.90	20.613	50.80	17.023	27.90
Mittl. Ort	11.393	30.46	51.487	41.43	18.576	19.15	14.298	46.98
sec. d. 1g. z	1.322	+0.865	1.286	-0.808	1.275	+0.791	1.021	-0.207

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

Mittlere Zeit Greenw.	795) Br. 2777		797) ζ Cygni		800) α Equulei		803) α Cephei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	21 <sup>h</sup> 7 <sup>m</sup>	+77° 48'	21 <sup>h</sup> 9 <sup>m</sup>	+29° 53'	21 <sup>h</sup> 11 <sup>m</sup>	+4° 54'	21 <sup>h</sup> 16 <sup>m</sup>	+62° 14'
Jan. I.I	3.52 <sup>59</sup>	28.41 <sup>264</sup>	31.498 <sup>48</sup>	66.56 <sup>216</sup>	49.333 <sup>17</sup>	66.79 <sup>115</sup>	39.02 <sup>21</sup>	65.76 <sup>264</sup>
II.I	2.93 <sup>41</sup>	25.77 <sup>298</sup>	31.450 <sup>12</sup>	64.40 <sup>230</sup>	49.316 <sup>14</sup>	65.64 <sup>116</sup>	38.81 <sup>15</sup>	63.12 <sup>295</sup>
2I.I	2.52 <sup>23</sup>	22.79 <sup>321</sup>	31.438 <sup>25</sup>	62.10 <sup>236</sup>	49.330 <sup>44</sup>	64.48 <sup>111</sup>	38.66 <sup>7</sup>	60.17 <sup>316</sup>
3I.O	2.29 <sup>4</sup>	19.53 <sup>331</sup>	31.463 <sup>64</sup>	59.74 <sup>231</sup>	49.374 <sup>76</sup>	63.37 <sup>101</sup>	38.59 <sup>2</sup>	57.01 <sup>323</sup>
Feb. IO.O	2.25 <sup>16</sup>	16.27 <sup>328</sup>	31.527 <sup>102</sup>	57.43 <sup>217</sup>	49.450 <sup>107</sup>	62.36 <sup>85</sup>	38.61 <sup>9</sup>	53.78 <sup>317</sup>
20.O	2.41 <sup>35</sup>	12.99 <sup>313</sup>	31.629 <sup>141</sup>	55.26 <sup>193</sup>	49.557 <sup>137</sup>	61.51 <sup>64</sup>	38.70 <sup>18</sup>	50.61 <sup>300</sup>
29.9	2.76 <sup>53</sup>	9.86 <sup>283</sup>	31.770 <sup>178</sup>	53.33 <sup>160</sup>	49.694 <sup>167</sup>	60.87 <sup>37</sup>	38.88 <sup>26</sup>	47.61 <sup>269</sup>
März IO.9	3.29 <sup>69</sup>	7.03 <sup>244</sup>	31.948 <sup>213</sup>	51.73 <sup>121</sup>	49.861 <sup>196</sup>	60.50 <sup>8</sup>	39.14 <sup>33</sup>	44.92 <sup>228</sup>
20.9	3.98 <sup>83</sup>	4.59 <sup>195</sup>	32.161 <sup>245</sup>	50.52 <sup>76</sup>	50.057 <sup>223</sup>	60.42 <sup>24</sup>	39.47 <sup>39</sup>	42.64 <sup>179</sup>
30.9	4.81 <sup>95</sup>	2.64 <sup>140</sup>	32.406 <sup>273</sup>	49.76 <sup>27</sup>	50.280 <sup>247</sup>	60.66 <sup>56</sup>	39.86 <sup>45</sup>	40.85 <sup>123</sup>
Apr. 9.8	5.76 <sup>101</sup>	1.24 <sup>79</sup>	32.679 <sup>297</sup>	49.49 <sup>24</sup>	50.527 <sup>268</sup>	61.22 <sup>89</sup>	40.31 <sup>49</sup>	39.62 <sup>62</sup>
19.8	6.77 <sup>106</sup>	0.45 <sup>16</sup>	32.976 <sup>314</sup>	49.73 <sup>73</sup>	50.795 <sup>284</sup>	62.11 <sup>119</sup>	40.80 <sup>52</sup>	39.00 <sup>0</sup>
29.8	7.83 <sup>107</sup>	0.29 <sup>46</sup>	33.290 <sup>323</sup>	50.46 <sup>121</sup>	51.079 <sup>296</sup>	63.30 <sup>146</sup>	41.32 <sup>53</sup>	39.00 <sup>62</sup>
Mai 9.8	8.90 <sup>104</sup>	0.75 <sup>107</sup>	33.613 <sup>325</sup>	51.67 <sup>164</sup>	51.375 <sup>300</sup>	64.76 <sup>168</sup>	41.85 <sup>52</sup>	39.62 <sup>121</sup>
19.7	9.94 <sup>99</sup>	1.82 <sup>163</sup>	33.938 <sup>320</sup>	53.31 <sup>202</sup>	51.675 <sup>298</sup>	66.44 <sup>186</sup>	42.37 <sup>51</sup>	40.83 <sup>176</sup>
29.7	10.93 <sup>90</sup>	3.45 <sup>215</sup>	34.258 <sup>306</sup>	55.33 <sup>235</sup>	51.973 <sup>288</sup>	68.30 <sup>198</sup>	42.88 <sup>48</sup>	42.59 <sup>227</sup>
Juni 8.7	11.83 <sup>79</sup>	5.60 <sup>260</sup>	34.564 <sup>283</sup>	57.68 <sup>260</sup>	52.261 <sup>271</sup>	70.28 <sup>204</sup>	43.36 <sup>43</sup>	44.86 <sup>269</sup>
18.6	12.62 <sup>65</sup>	8.20 <sup>297</sup>	34.847 <sup>254</sup>	60.28 <sup>278</sup>	52.532 <sup>247</sup>	72.32 <sup>204</sup>	43.79 <sup>37</sup>	47.55 <sup>304</sup>
28.6	13.27 <sup>52</sup>	11.17 <sup>328</sup>	35.101 <sup>218</sup>	63.06 <sup>289</sup>	52.779 <sup>216</sup>	74.36 <sup>200</sup>	44.16 <sup>32</sup>	50.59 <sup>333</sup>
Juli 8.6	13.79 <sup>35</sup>	14.45 <sup>349</sup>	35.319 <sup>176</sup>	65.95 <sup>293</sup>	52.995 <sup>180</sup>	76.36 <sup>191</sup>	44.48 <sup>23</sup>	53.92 <sup>351</sup>
18.6	14.14 <sup>18</sup>	17.94 <sup>362</sup>	35.495 <sup>131</sup>	68.88 <sup>290</sup>	53.175 <sup>140</sup>	78.27 <sup>178</sup>	44.71 <sup>16</sup>	57.43 <sup>362</sup>
28.5	14.32 <sup>1</sup>	21.56 <sup>369</sup>	35.626 <sup>83</sup>	71.78 <sup>281</sup>	53.315 <sup>97</sup>	80.05 <sup>161</sup>	44.87 <sup>8</sup>	61.05 <sup>366</sup>
Aug. 7.5	14.33 <sup>15</sup>	25.25 <sup>366</sup>	35.709 <sup>33</sup>	74.59 <sup>266</sup>	53.412 <sup>52</sup>	81.66 <sup>141</sup>	44.95 <sup>1</sup>	64.71 <sup>360</sup>
17.5	14.18 <sup>32</sup>	28.91 <sup>354</sup>	35.742 <sup>14</sup>	77.25 <sup>245</sup>	53.464 <sup>8</sup>	83.07 <sup>121</sup>	44.94 <sup>8</sup>	68.31 <sup>347</sup>
27.4	13.86 <sup>47</sup>	32.45 <sup>338</sup>	35.728 <sup>59</sup>	79.70 <sup>221</sup>	53.472 <sup>34</sup>	84.28 <sup>98</sup>	44.86 <sup>16</sup>	71.78 <sup>327</sup>
Sept. 6.4	13.39 <sup>62</sup>	35.83 <sup>312</sup>	35.669 <sup>100</sup>	81.91 <sup>192</sup>	53.438 <sup>71</sup>	85.26 <sup>76</sup>	44.70 <sup>23</sup>	75.05 <sup>299</sup>
16.4	12.77 <sup>74</sup>	38.95 <sup>281</sup>	35.569 <sup>134</sup>	83.83 <sup>161</sup>	53.367 <sup>103</sup>	86.02 <sup>53</sup>	44.47 <sup>29</sup>	78.04 <sup>267</sup>
26.4	12.03 <sup>85</sup>	41.76 <sup>243</sup>	35.435 <sup>162</sup>	85.44 <sup>125</sup>	53.264 <sup>129</sup>	86.55 <sup>30</sup>	44.18 <sup>34</sup>	80.71 <sup>229</sup>
Okt. 6.3	11.18 <sup>94</sup>	44.19 <sup>199</sup>	35.273 <sup>181</sup>	86.69 <sup>88</sup>	53.135 <sup>145</sup>	86.85 <sup>10</sup>	43.84 <sup>38</sup>	83.00 <sup>183</sup>
16.3	10.24 <sup>100</sup>	46.18 <sup>150</sup>	35.092 <sup>192</sup>	87.57 <sup>49</sup>	52.990 <sup>155</sup>	86.95 <sup>12</sup>	43.46 <sup>41</sup>	84.83 <sup>134</sup>
26.3	9.24 <sup>105</sup>	47.68 <sup>97</sup>	34.900 <sup>195</sup>	88.06 <sup>9</sup>	52.835 <sup>157</sup>	86.83 <sup>31</sup>	43.05 <sup>42</sup>	86.17 <sup>81</sup>
Nov. 5.3	8.19 <sup>105</sup>	48.65 <sup>39</sup>	34.705 <sup>190</sup>	88.15 <sup>32</sup>	52.678 <sup>149</sup>	86.52 <sup>49</sup>	42.63 <sup>43</sup>	86.98 <sup>25</sup>
15.2	7.14 <sup>103</sup>	49.04 <sup>20</sup>	34.515 <sup>177</sup>	87.83 <sup>72</sup>	52.529 <sup>137</sup>	86.03 <sup>67</sup>	42.20 <sup>42</sup>	87.23 <sup>32</sup>
25.2	6.11 <sup>100</sup>	48.84 <sup>79</sup>	34.338 <sup>158</sup>	87.11 <sup>111</sup>	52.392 <sup>117</sup>	85.36 <sup>83</sup>	41.78 <sup>40</sup>	86.91 <sup>90</sup>
Dez. 5.2	5.11 <sup>91</sup>	48.05 <sup>138</sup>	34.180 <sup>133</sup>	86.00 <sup>148</sup>	52.275 <sup>94</sup>	84.53 <sup>96</sup>	41.38 <sup>36</sup>	86.01 <sup>146</sup>
15.1	4.20 <sup>81</sup>	46.67 <sup>192</sup>	34.047 <sup>104</sup>	84.52 <sup>179</sup>	52.181 <sup>67</sup>	83.57 <sup>108</sup>	41.02 <sup>31</sup>	84.55 <sup>197</sup>
25.1	3.39 <sup>68</sup>	44.75 <sup>241</sup>	33.943 <sup>72</sup>	82.73 <sup>206</sup>	52.114 <sup>38</sup>	82.49 <sup>115</sup>	40.71 <sup>26</sup>	82.58 <sup>243</sup>
35.1	2.71	42.34	33.871	80.67	52.076	81.34	40.45	80.15
Mittl. Ort	7.57	8.16	31.831	53.14	49.519	58.76	40.27	46.48
sec δ, tg δ	4.733	+4.626	1.154	+0.575	1.004	+0.086	2.147	+1.900

Mittlere Zeit Greenw.	804) I Pegasi		805) γ Pavonis		806) ζ Capricorni		808) β Aquarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	21 <sup>h</sup> 18 <sup>m</sup>	+19° 27'	21 <sup>h</sup> 19 <sup>m</sup>	-65° 43'	21 <sup>h</sup> 22 <sup>m</sup>	-22° 45'	21 <sup>h</sup> 27 <sup>m</sup>	-5° 54'
Jan. I.I	22.972 <sup>38</sup>	52.77 <sup>175</sup>	49.00 <sup>14</sup>	49.88 <sup>249</sup>	5.896 <sup>21</sup>	29.38 <sup>29</sup>	20.776 <sup>24</sup>	80.28 <sup>60</sup>
II.I	22.934 <sup>5</sup>	51.02 <sup>184</sup>	48.86 <sup>4</sup>	47.39 <sup>275</sup>	5.875 <sup>13</sup>	29.09 <sup>43</sup>	20.752 <sup>6</sup>	80.88 <sup>53</sup>
21.I	22.929 <sup>27</sup>	49.18 <sup>186</sup>	48.82 <sup>4</sup>	44.64 <sup>295</sup>	5.888 <sup>46</sup>	28.66 <sup>58</sup>	20.758 <sup>35</sup>	81.41 <sup>45</sup>
31.0	22.956 <sup>61</sup>	47.32 <sup>179</sup>	48.86 <sup>12</sup>	41.69 <sup>307</sup>	5.934 <sup>79</sup>	28.08 <sup>72</sup>	20.793 <sup>65</sup>	81.86 <sup>32</sup>
Feb. 10.0	23.017 <sup>96</sup>	45.53 <sup>165</sup>	48.98 <sup>20</sup>	38.62 <sup>312</sup>	6.013 <sup>111</sup>	27.36 <sup>87</sup>	20.858 <sup>96</sup>	82.18 <sup>17</sup>
20.0	23.113 <sup>129</sup>	43.88 <sup>143</sup>	49.18 <sup>28</sup>	35.50 <sup>310</sup>	6.124 <sup>144</sup>	26.49 <sup>102</sup>	20.954 <sup>126</sup>	82.35 <sup>3</sup>
März 1.0	23.242 <sup>163</sup>	42.45 <sup>113</sup>	49.46 <sup>35</sup>	32.40 <sup>302</sup>	6.268 <sup>174</sup>	25.47 <sup>116</sup>	21.080 <sup>156</sup>	82.32 <sup>24</sup>
10.9	23.405 <sup>195</sup>	41.32 <sup>77</sup>	49.81 <sup>42</sup>	29.38 <sup>287</sup>	6.442 <sup>204</sup>	24.31 <sup>130</sup>	21.236 <sup>185</sup>	82.08 <sup>48</sup>
20.9	23.600 <sup>225</sup>	40.55 <sup>38</sup>	50.23 <sup>47</sup>	26.51 <sup>266</sup>	6.646 <sup>234</sup>	23.01 <sup>141</sup>	21.421 <sup>214</sup>	81.60 <sup>73</sup>
30.9	23.825 <sup>253</sup>	40.17 <sup>5</sup>	50.70 <sup>53</sup>	23.85 <sup>241</sup>	6.880 <sup>259</sup>	21.60 <sup>152</sup>	21.635 <sup>239</sup>	80.87 <sup>96</sup>
Apr. 9.8	24.078 <sup>275</sup>	40.22 <sup>48</sup>	51.23 <sup>57</sup>	21.44 <sup>211</sup>	7.139 <sup>283</sup>	20.08 <sup>159</sup>	21.874 <sup>263</sup>	79.91 <sup>119</sup>
19.8	24.353 <sup>294</sup>	40.70 <sup>90</sup>	51.80 <sup>61</sup>	19.33 <sup>175</sup>	7.422 <sup>303</sup>	18.49 <sup>162</sup>	22.137 <sup>282</sup>	78.72 <sup>139</sup>
29.8	24.647 <sup>304</sup>	41.60 <sup>129</sup>	52.41 <sup>63</sup>	17.58 <sup>137</sup>	7.725 <sup>316</sup>	16.87 <sup>161</sup>	22.419 <sup>295</sup>	77.33 <sup>155</sup>
Mai 9.8	24.951 <sup>310</sup>	42.89 <sup>166</sup>	53.04 <sup>63</sup>	16.21 <sup>96</sup>	8.041 <sup>323</sup>	15.26 <sup>157</sup>	22.714 <sup>303</sup>	75.78 <sup>168</sup>
19.7	25.261 <sup>307</sup>	44.55 <sup>196</sup>	53.67 <sup>63</sup>	15.25 <sup>53</sup>	8.364 <sup>324</sup>	13.69 <sup>148</sup>	23.017 <sup>304</sup>	74.10 <sup>175</sup>
29.7	25.568 <sup>297</sup>	46.51 <sup>221</sup>	54.30 <sup>62</sup>	14.72 <sup>7</sup>	8.688 <sup>317</sup>	12.21 <sup>134</sup>	23.321 <sup>297</sup>	72.35 <sup>178</sup>
Juni 8.7	25.865 <sup>278</sup>	48.72 <sup>239</sup>	54.92 <sup>58</sup>	14.65 <sup>38</sup>	9.005 <sup>302</sup>	10.87 <sup>118</sup>	23.618 <sup>283</sup>	70.57 <sup>174</sup>
18.7	26.143 <sup>253</sup>	51.11 <sup>251</sup>	55.50 <sup>53</sup>	15.03 <sup>81</sup>	9.307 <sup>279</sup>	9.69 <sup>97</sup>	23.901 <sup>262</sup>	68.83 <sup>168</sup>
28.6	26.396 <sup>221</sup>	53.62 <sup>256</sup>	56.03 <sup>47</sup>	15.84 <sup>122</sup>	9.586 <sup>248</sup>	8.72 <sup>75</sup>	24.163 <sup>233</sup>	67.15 <sup>156</sup>
Juli 8.6	26.617 <sup>183</sup>	56.18 <sup>255</sup>	56.50 <sup>39</sup>	17.06 <sup>160</sup>	9.834 <sup>211</sup>	7.97 <sup>51</sup>	24.396 <sup>198</sup>	65.59 <sup>141</sup>
18.6	26.800 <sup>142</sup>	58.73 <sup>249</sup>	56.89 <sup>30</sup>	18.66 <sup>191</sup>	10.045 <sup>169</sup>	7.46 <sup>27</sup>	24.594 <sup>160</sup>	64.18 <sup>123</sup>
28.5	26.942 <sup>96</sup>	61.22 <sup>237</sup>	57.19 <sup>21</sup>	20.57 <sup>217</sup>	10.214 <sup>123</sup>	7.19 <sup>3</sup>	24.754 <sup>116</sup>	62.95 <sup>103</sup>
Aug. 7.5	27.038 <sup>51</sup>	63.59 <sup>220</sup>	57.40 <sup>11</sup>	22.74 <sup>235</sup>	10.337 <sup>75</sup>	7.16 <sup>19</sup>	24.870 <sup>72</sup>	61.92 <sup>82</sup>
17.5	27.089 <sup>6</sup>	65.79 <sup>200</sup>	57.51 <sup>0</sup>	25.09 <sup>245</sup>	10.412 <sup>26</sup>	7.35 <sup>38</sup>	24.942 <sup>27</sup>	61.10 <sup>61</sup>
27.5	27.095 <sup>37</sup>	67.79 <sup>175</sup>	57.51 <sup>10</sup>	27.54 <sup>244</sup>	10.438 <sup>21</sup>	7.73 <sup>54</sup>	24.969 <sup>16</sup>	60.49 <sup>40</sup>
Sept. 6.4	27.058 <sup>77</sup>	69.54 <sup>150</sup>	57.41 <sup>19</sup>	29.98 <sup>236</sup>	10.417 <sup>64</sup>	8.27 <sup>67</sup>	24.953 <sup>55</sup>	60.09 <sup>21</sup>
16.4	26.981 <sup>109</sup>	71.04 <sup>121</sup>	57.22 <sup>28</sup>	32.34 <sup>216</sup>	10.353 <sup>101</sup>	8.94 <sup>75</sup>	24.898 <sup>89</sup>	59.88 <sup>3</sup>
26.4	26.872 <sup>136</sup>	72.25 <sup>91</sup>	56.94 <sup>35</sup>	34.50 <sup>188</sup>	10.252 <sup>131</sup>	9.69 <sup>78</sup>	24.809 <sup>117</sup>	59.85 <sup>13</sup>
Okt. 6.4	26.736 <sup>156</sup>	73.16 <sup>60</sup>	56.59 <sup>40</sup>	36.38 <sup>153</sup>	10.121 <sup>153</sup>	10.47 <sup>78</sup>	24.692 <sup>136</sup>	59.98 <sup>26</sup>
16.3	26.580 <sup>166</sup>	73.76 <sup>28</sup>	56.19 <sup>44</sup>	37.91 <sup>109</sup>	9.968 <sup>165</sup>	11.25 <sup>72</sup>	24.556 <sup>148</sup>	60.24 <sup>37</sup>
26.3	26.414 <sup>169</sup>	74.04 <sup>4</sup>	55.75 <sup>46</sup>	39.00 <sup>61</sup>	9.803 <sup>168</sup>	11.97 <sup>64</sup>	24.408 <sup>151</sup>	60.61 <sup>46</sup>
Nov. 5.3	26.245 <sup>165</sup>	74.00 <sup>36</sup>	55.29 <sup>45</sup>	39.61 <sup>9</sup>	9.635 <sup>163</sup>	12.61 <sup>53</sup>	24.257 <sup>147</sup>	61.07 <sup>53</sup>
15.2	26.080 <sup>153</sup>	73.64 <sup>68</sup>	54.84 <sup>42</sup>	39.70 <sup>43</sup>	9.472 <sup>148</sup>	13.14 <sup>41</sup>	24.110 <sup>136</sup>	61.60 <sup>59</sup>
25.2	25.927 <sup>136</sup>	72.96 <sup>98</sup>	54.42 <sup>39</sup>	39.27 <sup>94</sup>	9.324 <sup>129</sup>	13.55 <sup>27</sup>	23.974 <sup>119</sup>	62.19 <sup>63</sup>
Dez. 5.2	25.791 <sup>114</sup>	71.98 <sup>125</sup>	54.03 <sup>33</sup>	38.33 <sup>143</sup>	9.195 <sup>104</sup>	13.82 <sup>12</sup>	23.855 <sup>97</sup>	62.82 <sup>65</sup>
15.2	25.677 <sup>88</sup>	70.73 <sup>149</sup>	53.70 <sup>25</sup>	36.90 <sup>188</sup>	9.091 <sup>74</sup>	13.94 <sup>3</sup>	23.758 <sup>71</sup>	63.47 <sup>65</sup>
25.1	25.589 <sup>59</sup>	69.24 <sup>169</sup>	53.45 <sup>19</sup>	35.02 <sup>225</sup>	9.017 <sup>43</sup>	13.91 <sup>17</sup>	23.687 <sup>45</sup>	64.12 <sup>65</sup>
35.1	25.530	67.55	53.26	32.77	8.974	13.74	23.642	64.77
Mittl. Ort sec δ, tg δ	23.173 1.061	41.37 +0.353	50.78 2.433	45.42 -2.218	6.161 1.084	31.15 -0.419	20.917 1.005	85.72 -0.104

Mittlere Zeit Greenw.	809) $\beta$ Cephei		810) $\nu$ Octantis		811) 74 Cygni		815) $\epsilon$ Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	21 <sup>h</sup> 27 <sup>m</sup>	+70° 12'	21 <sup>h</sup> 32 <sup>m</sup>	-77° 44'	21 <sup>h</sup> 33 <sup>m</sup>	+40° 3'	21 <sup>h</sup> 40 <sup>m</sup>	+9° 30'
Jan. 1. I	36.22 <sup>36</sup>	54.43 <sup>252</sup>	33.79 <sup>40</sup>	53.54 <sup>284</sup>	44.141 <sup>97</sup>	29.15 <sup>226</sup>	15.336 <sup>44</sup>	36.37 <sup>127</sup>
11. I	35.86 <sup>27</sup>	51.91 <sup>288</sup>	33.39 <sup>23</sup>	50.70 <sup>314</sup>	44.044 <sup>58</sup>	26.89 <sup>249</sup>	15.292 <sup>14</sup>	35.10 <sup>131</sup>
21. I	35.59 <sup>16</sup>	49.03 <sup>314</sup>	33.16 <sup>6</sup>	47.56 <sup>336</sup>	43.986 <sup>17</sup>	24.40 <sup>262</sup>	15.278 <sup>14</sup>	33.79 <sup>129</sup>
31. I	35.43 <sup>5</sup>	45.89 <sup>327</sup>	33.10 <sup>10</sup>	44.20 <sup>348</sup>	43.969 <sup>26</sup>	21.78 <sup>265</sup>	15.292 <sup>45</sup>	32.50 <sup>122</sup>
Feb. 10. I	35.38 <sup>8</sup>	42.62 <sup>326</sup>	33.20 <sup>27</sup>	40.72 <sup>352</sup>	43.995 <sup>72</sup>	19.13 <sup>258</sup>	15.337 <sup>76</sup>	31.28 <sup>107</sup>
20. I	35.46 <sup>19</sup>	39.36 <sup>314</sup>	33.47 <sup>43</sup>	37.20 <sup>348</sup>	44.067 <sup>117</sup>	16.55 <sup>238</sup>	15.413 <sup>108</sup>	30.21 <sup>87</sup>
März 1. I	35.65 <sup>30</sup>	36.22 <sup>289</sup>	33.90 <sup>57</sup>	33.72 <sup>336</sup>	44.184 <sup>164</sup>	14.17 <sup>210</sup>	15.521 <sup>141</sup>	29.34 <sup>62</sup>
10. I	35.95 <sup>41</sup>	33.33 <sup>251</sup>	34.47 <sup>71</sup>	30.36 <sup>317</sup>	44.348 <sup>207</sup>	12.07 <sup>172</sup>	15.662 <sup>172</sup>	28.72 <sup>32</sup>
20. I	36.36 <sup>50</sup>	30.82 <sup>205</sup>	35.18 <sup>82</sup>	27.19 <sup>291</sup>	44.555 <sup>248</sup>	10.35 <sup>126</sup>	15.834 <sup>203</sup>	28.40 <sup>2</sup>
30. I	36.86 <sup>57</sup>	28.77 <sup>151</sup>	36.00 <sup>93</sup>	24.28 <sup>260</sup>	44.803 <sup>284</sup>	9.09 <sup>76</sup>	16.037 <sup>231</sup>	28.42 <sup>37</sup>
Apr. 9. I	37.43 <sup>64</sup>	27.26 <sup>91</sup>	36.93 <sup>102</sup>	21.68 <sup>223</sup>	45.087 <sup>314</sup>	8.33 <sup>23</sup>	16.268 <sup>256</sup>	28.79 <sup>72</sup>
19. I	38.07 <sup>68</sup>	26.35 <sup>30</sup>	37.95 <sup>108</sup>	19.45 <sup>182</sup>	45.401 <sup>338</sup>	8.10 <sup>33</sup>	16.524 <sup>278</sup>	29.51 <sup>106</sup>
29. I	38.75 <sup>70</sup>	26.05 <sup>33</sup>	39.03 <sup>113</sup>	17.63 <sup>137</sup>	45.739 <sup>353</sup>	8.43 <sup>85</sup>	16.802 <sup>293</sup>	30.57 <sup>137</sup>
Mai 9. I	39.45 <sup>69</sup>	26.38 <sup>94</sup>	40.16 <sup>115</sup>	16.26 <sup>88</sup>	46.092 <sup>360</sup>	9.28 <sup>137</sup>	17.095 <sup>302</sup>	31.94 <sup>164</sup>
19. I	40.14 <sup>68</sup>	27.32 <sup>152</sup>	41.31 <sup>114</sup>	15.38 <sup>39</sup>	46.452 <sup>356</sup>	10.65 <sup>183</sup>	17.397 <sup>304</sup>	33.58 <sup>187</sup>
29. I	40.82 <sup>63</sup>	28.84 <sup>204</sup>	42.45 <sup>111</sup>	14.99 <sup>11</sup>	46.808 <sup>343</sup>	12.48 <sup>223</sup>	17.701 <sup>298</sup>	35.45 <sup>204</sup>
Juni 8. I	41.45 <sup>57</sup>	30.88 <sup>252</sup>	43.56 <sup>105</sup>	15.10 <sup>61</sup>	47.151 <sup>321</sup>	14.71 <sup>258</sup>	17.999 <sup>285</sup>	37.49 <sup>216</sup>
18. I	42.02 <sup>50</sup>	33.40 <sup>291</sup>	44.61 <sup>97</sup>	15.71 <sup>110</sup>	47.472 <sup>292</sup>	17.29 <sup>285</sup>	18.284 <sup>264</sup>	39.65 <sup>220</sup>
28. I	42.52 <sup>41</sup>	36.31 <sup>323</sup>	45.58 <sup>86</sup>	16.81 <sup>155</sup>	47.764 <sup>253</sup>	20.14 <sup>305</sup>	18.548 <sup>236</sup>	41.85 <sup>221</sup>
Juli 8. I	42.93 <sup>31</sup>	39.54 <sup>346</sup>	46.44 <sup>72</sup>	18.36 <sup>196</sup>	48.017 <sup>210</sup>	23.19 <sup>317</sup>	18.784 <sup>203</sup>	44.06 <sup>215</sup>
18. I	43.24 <sup>21</sup>	43.00 <sup>363</sup>	47.16 <sup>56</sup>	20.32 <sup>229</sup>	48.227 <sup>161</sup>	26.36 <sup>322</sup>	18.987 <sup>164</sup>	46.21 <sup>204</sup>
28. I	43.45 <sup>11</sup>	46.63 <sup>370</sup>	47.72 <sup>39</sup>	22.61 <sup>257</sup>	48.388 <sup>108</sup>	29.58 <sup>319</sup>	19.151 <sup>121</sup>	48.25 <sup>190</sup>
Aug. 7. I	43.56 <sup>1</sup>	50.33 <sup>369</sup>	48.11 <sup>20</sup>	25.18 <sup>275</sup>	48.496 <sup>56</sup>	32.77 <sup>309</sup>	19.272 <sup>78</sup>	50.15 <sup>172</sup>
17. I	43.55 <sup>11</sup>	54.02 <sup>362</sup>	48.31 <sup>1</sup>	27.93 <sup>284</sup>	48.552 <sup>3</sup>	35.86 <sup>294</sup>	19.350 <sup>34</sup>	51.87 <sup>151</sup>
27. I	43.44 <sup>21</sup>	57.64 <sup>345</sup>	48.32 <sup>19</sup>	30.77 <sup>282</sup>	48.555 <sup>48</sup>	38.80 <sup>273</sup>	19.384 <sup>9</sup>	53.38 <sup>129</sup>
Sept. 6. I	43.23 <sup>31</sup>	61.09 <sup>322</sup>	48.13 <sup>37</sup>	33.59 <sup>271</sup>	48.507 <sup>93</sup>	41.53 <sup>246</sup>	19.375 <sup>48</sup>	54.67 <sup>105</sup>
16. I	42.92 <sup>39</sup>	64.31 <sup>292</sup>	47.76 <sup>53</sup>	36.30 <sup>248</sup>	48.414 <sup>134</sup>	43.99 <sup>214</sup>	19.327 <sup>83</sup>	55.72 <sup>80</sup>
26. I	42.53 <sup>46</sup>	67.23 <sup>255</sup>	47.23 <sup>69</sup>	38.78 <sup>216</sup>	48.280 <sup>168</sup>	46.13 <sup>179</sup>	19.244 <sup>110</sup>	56.52 <sup>56</sup>
Okt. 6. I	42.07 <sup>53</sup>	69.78 <sup>213</sup>	46.54 <sup>80</sup>	40.94 <sup>174</sup>	48.112 <sup>194</sup>	47.92 <sup>139</sup>	19.134 <sup>132</sup>	57.08 <sup>31</sup>
16. I	41.54 <sup>57</sup>	71.91 <sup>165</sup>	45.74 <sup>89</sup>	42.68 <sup>125</sup>	47.918 <sup>212</sup>	49.31 <sup>97</sup>	19.002 <sup>145</sup>	57.39 <sup>8</sup>
26. I	40.97 <sup>60</sup>	73.56 <sup>112</sup>	44.85 <sup>94</sup>	43.93 <sup>69</sup>	47.706 <sup>221</sup>	50.28 <sup>52</sup>	18.857 <sup>150</sup>	57.47 <sup>16</sup>
Nov. 5. I	40.37 <sup>61</sup>	74.68 <sup>55</sup>	43.91 <sup>95</sup>	44.62 <sup>11</sup>	47.485 <sup>221</sup>	50.80 <sup>5</sup>	18.707 <sup>149</sup>	57.31 <sup>39</sup>
15. I	39.76 <sup>61</sup>	75.23 <sup>4</sup>	42.96 <sup>92</sup>	44.73 <sup>49</sup>	47.264 <sup>215</sup>	50.85 <sup>42</sup>	18.558 <sup>141</sup>	56.92 <sup>60</sup>
25. I	39.15 <sup>59</sup>	75.19 <sup>63</sup>	42.04 <sup>86</sup>	44.24 <sup>108</sup>	47.049 <sup>200</sup>	50.43 <sup>89</sup>	18.417 <sup>128</sup>	56.32 <sup>80</sup>
Dez. 5. I	38.56 <sup>54</sup>	74.56 <sup>121</sup>	41.18 <sup>76</sup>	43.16 <sup>164</sup>	46.849 <sup>180</sup>	49.54 <sup>133</sup>	18.289 <sup>109</sup>	55.52 <sup>98</sup>
15. I	38.02 <sup>49</sup>	73.35 <sup>178</sup>	40.42 <sup>63</sup>	41.52 <sup>214</sup>	46.669 <sup>153</sup>	48.21 <sup>175</sup>	18.180 <sup>87</sup>	54.54 <sup>113</sup>
25. I	37.53 <sup>43</sup>	71.57 <sup>227</sup>	39.79 <sup>50</sup>	39.38 <sup>258</sup>	46.516 <sup>121</sup>	46.46 <sup>210</sup>	18.093 <sup>62</sup>	53.41 <sup>124</sup>
35. I	37.10	69.30	39.29	36.80	46.395	44.36	18.031	52.17
Mittl. Ort	38.05	33.59	37.99	47.59	44.453	12.83	15.402	27.16
sec $\delta$ , tg $\delta$	2.953	+2.779	4.712	-4.604	1.306	+0.841	1.014	+0.167

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.
1920	21 <sup>h</sup> 42 <sup>m</sup>	-16° 29'	21 <sup>h</sup> 43 <sup>m</sup>	+48° 56'	21 <sup>h</sup> 49 <sup>m</sup>	-37° 44'	21 <sup>h</sup> 49 <sup>m</sup>	+25° 32'
Jan. I.I	37.504 <sup>36</sup>	24.95 <sup>7</sup>	49.773 <sup>144</sup>	38.28 <sup>231</sup>	4.960 <sup>62</sup>	32.85 <sup>100</sup>	25.193 <sup>71</sup>	66.83 <sup>179</sup>
II.I	37.468 <sup>6</sup>	25.02 <sup>6</sup>	49.629 <sup>101</sup>	35.97 <sup>261</sup>	4.898 <sup>24</sup>	31.85 <sup>124</sup>	25.122 <sup>42</sup>	65.04 <sup>195</sup>
21.I	37.462 <sup>14</sup>	24.96 <sup>20</sup>	49.528 <sup>53</sup>	33.36 <sup>281</sup>	4.874 <sup>12</sup>	30.61 <sup>147</sup>	25.080 <sup>10</sup>	63.09 <sup>203</sup>
31.I	37.486 <sup>54</sup>	24.76 <sup>35</sup>	49.475 <sup>1</sup>	30.55 <sup>290</sup>	4.886 <sup>51</sup>	29.14 <sup>165</sup>	25.070 <sup>24</sup>	61.06 <sup>202</sup>
Feb. 10.0	37.540 <sup>85</sup>	24.41 <sup>52</sup>	49.474 <sup>54</sup>	27.65 <sup>286</sup>	4.937 <sup>90</sup>	27.49 <sup>182</sup>	25.094 <sup>60</sup>	59.04 <sup>192</sup>
20.0	37.625 <sup>117</sup>	23.89 <sup>69</sup>	49.528 <sup>109</sup>	24.79 <sup>272</sup>	5.027 <sup>128</sup>	25.67 <sup>195</sup>	25.154 <sup>97</sup>	57.12 <sup>174</sup>
März 1.0	37.742 <sup>147</sup>	23.20 <sup>87</sup>	49.637 <sup>165</sup>	22.07 <sup>245</sup>	5.155 <sup>165</sup>	23.72 <sup>205</sup>	25.251 <sup>134</sup>	55.38 <sup>148</sup>
10.9	37.889 <sup>179</sup>	22.33 <sup>105</sup>	49.802 <sup>219</sup>	19.62 <sup>208</sup>	5.320 <sup>202</sup>	21.67 <sup>212</sup>	25.385 <sup>172</sup>	53.90 <sup>114</sup>
20.9	38.068 <sup>209</sup>	21.28 <sup>122</sup>	50.021 <sup>268</sup>	17.54 <sup>164</sup>	5.522 <sup>238</sup>	19.55 <sup>214</sup>	25.557 <sup>206</sup>	52.76 <sup>75</sup>
30.9	38.277 <sup>237</sup>	20.06 <sup>139</sup>	50.289 <sup>312</sup>	15.90 <sup>113</sup>	5.760 <sup>271</sup>	17.41 <sup>214</sup>	25.763 <sup>240</sup>	52.01 <sup>31</sup>
Apr. 9.9	38.514 <sup>263</sup>	18.67 <sup>152</sup>	50.601 <sup>349</sup>	14.77 <sup>58</sup>	6.031 <sup>302</sup>	15.27 <sup>208</sup>	26.003 <sup>269</sup>	51.70 <sup>14</sup>
19.8	38.777 <sup>285</sup>	17.15 <sup>161</sup>	50.950 <sup>379</sup>	14.19 <sup>1</sup>	6.333 <sup>328</sup>	13.19 <sup>198</sup>	26.272 <sup>293</sup>	51.84 <sup>60</sup>
29.8	39.062 <sup>302</sup>	15.54 <sup>169</sup>	51.329 <sup>396</sup>	14.20 <sup>57</sup>	6.661 <sup>349</sup>	11.21 <sup>185</sup>	26.565 <sup>310</sup>	52.44 <sup>104</sup>
Mai 9.8	39.364 <sup>312</sup>	13.85 <sup>170</sup>	51.725 <sup>404</sup>	14.77 <sup>113</sup>	7.010 <sup>362</sup>	9.36 <sup>165</sup>	26.875 <sup>320</sup>	53.48 <sup>145</sup>
19.8	39.676 <sup>316</sup>	12.15 <sup>167</sup>	52.129 <sup>401</sup>	15.90 <sup>165</sup>	7.372 <sup>368</sup>	7.71 <sup>143</sup>	27.195 <sup>322</sup>	54.93 <sup>181</sup>
29.7	39.992 <sup>312</sup>	10.48 <sup>160</sup>	52.530 <sup>388</sup>	17.55 <sup>212</sup>	7.740 <sup>365</sup>	6.28 <sup>115</sup>	27.517 <sup>316</sup>	56.74 <sup>213</sup>
Juni 8.7	40.304 <sup>301</sup>	8.88 <sup>148</sup>	52.918 <sup>363</sup>	19.67 <sup>252</sup>	8.105 <sup>353</sup>	5.13 <sup>87</sup>	27.833 <sup>301</sup>	58.87 <sup>238</sup>
18.7	40.605 <sup>281</sup>	7.40 <sup>133</sup>	53.281 <sup>329</sup>	22.19 <sup>285</sup>	8.458 <sup>331</sup>	4.26 <sup>54</sup>	28.134 <sup>278</sup>	61.25 <sup>257</sup>
28.6	40.886 <sup>254</sup>	6.07 <sup>113</sup>	53.610 <sup>287</sup>	25.04 <sup>312</sup>	8.789 <sup>302</sup>	3.72 <sup>21</sup>	28.412 <sup>249</sup>	63.82 <sup>269</sup>
Juli 8.6	41.140 <sup>220</sup>	4.94 <sup>91</sup>	53.897 <sup>238</sup>	28.16 <sup>329</sup>	9.091 <sup>263</sup>	3.51 <sup>12</sup>	28.661 <sup>213</sup>	66.51 <sup>274</sup>
18.6	41.360 <sup>181</sup>	4.03 <sup>69</sup>	54.135 <sup>183</sup>	31.45 <sup>340</sup>	9.354 <sup>218</sup>	3.63 <sup>44</sup>	28.874 <sup>172</sup>	69.25 <sup>273</sup>
28.6	41.541 <sup>138</sup>	3.34 <sup>44</sup>	54.318 <sup>124</sup>	34.85 <sup>343</sup>	9.572 <sup>168</sup>	4.07 <sup>73</sup>	29.046 <sup>128</sup>	71.98 <sup>266</sup>
Aug. 7.5	41.679 <sup>92</sup>	2.90 <sup>21</sup>	54.442 <sup>65</sup>	38.28 <sup>337</sup>	9.740 <sup>113</sup>	4.80 <sup>100</sup>	29.174 <sup>81</sup>	74.64 <sup>253</sup>
17.5	41.771 <sup>46</sup>	2.69 <sup>1</sup>	54.507 <sup>5</sup>	41.65 <sup>336</sup>	9.853 <sup>58</sup>	5.80 <sup>122</sup>	29.255 <sup>35</sup>	77.17 <sup>237</sup>
27.5	41.817 <sup>0</sup>	2.70 <sup>21</sup>	54.512 <sup>52</sup>	44.91 <sup>308</sup>	9.911 <sup>?</sup>	7.02 <sup>137</sup>	29.290 <sup>11</sup>	79.54 <sup>214</sup>
Sept. 6.5	41.817 <sup>42</sup>	2.91 <sup>38</sup>	54.460 <sup>105</sup>	47.99 <sup>283</sup>	9.913 <sup>49</sup>	8.39 <sup>147</sup>	29.279 <sup>52</sup>	81.68 <sup>189</sup>
16.4	41.775 <sup>79</sup>	3.29 <sup>51</sup>	54.355 <sup>153</sup>	50.82 <sup>252</sup>	9.864 <sup>96</sup>	9.86 <sup>149</sup>	29.227 <sup>88</sup>	83.57 <sup>161</sup>
26.4	41.696 <sup>110</sup>	3.80 <sup>60</sup>	54.202 <sup>193</sup>	53.34 <sup>217</sup>	9.768 <sup>136</sup>	11.35 <sup>146</sup>	29.139 <sup>120</sup>	85.18 <sup>131</sup>
Okt. 6.4	41.586 <sup>132</sup>	4.40 <sup>67</sup>	54.009 <sup>225</sup>	55.51 <sup>176</sup>	9.632 <sup>166</sup>	12.81 <sup>134</sup>	29.019 <sup>143</sup>	86.49 <sup>97</sup>
16.3	41.454 <sup>148</sup>	5.07 <sup>68</sup>	53.784 <sup>248</sup>	57.27 <sup>132</sup>	9.466 <sup>187</sup>	14.15 <sup>118</sup>	28.876 <sup>159</sup>	87.46 <sup>63</sup>
26.3	41.306 <sup>154</sup>	5.75 <sup>66</sup>	53.536 <sup>263</sup>	58.59 <sup>85</sup>	9.279 <sup>198</sup>	15.33 <sup>95</sup>	28.717 <sup>168</sup>	88.09 <sup>28</sup>
Nov. 5.3	41.152 <sup>151</sup>	6.41 <sup>63</sup>	53.273 <sup>268</sup>	59.44 <sup>33</sup>	9.081 <sup>198</sup>	16.28 <sup>69</sup>	28.549 <sup>170</sup>	88.37 <sup>9</sup>
15.3	41.001 <sup>143</sup>	7.04 <sup>56</sup>	53.005 <sup>265</sup>	59.77 <sup>19</sup>	8.883 <sup>190</sup>	16.97 <sup>40</sup>	28.379 <sup>165</sup>	88.28 <sup>45</sup>
25.2	40.858 <sup>128</sup>	7.60 <sup>48</sup>	52.740 <sup>253</sup>	59.58 <sup>71</sup>	8.693 <sup>172</sup>	17.37 <sup>2</sup>	28.214 <sup>153</sup>	87.83 <sup>80</sup>
Dez. 5.2	40.730 <sup>107</sup>	8.08 <sup>39</sup>	52.487 <sup>233</sup>	58.87 <sup>121</sup>	8.521 <sup>148</sup>	17.46 <sup>21</sup>	28.061 <sup>137</sup>	87.03 <sup>113</sup>
15.2	40.623 <sup>82</sup>	8.47 <sup>28</sup>	52.254 <sup>206</sup>	57.66 <sup>169</sup>	8.373 <sup>119</sup>	17.25 <sup>52</sup>	27.924 <sup>116</sup>	85.90 <sup>143</sup>
25.2	40.541 <sup>56</sup>	8.75 <sup>17</sup>	52.048 <sup>171</sup>	55.97 <sup>212</sup>	8.254 <sup>85</sup>	16.73 <sup>80</sup>	27.808 <sup>92</sup>	84.47 <sup>169</sup>
35.1	40.485	8.92	51.877	53.85	8.169	15.93	27.716	82.78
Mittl. Ort sec $\delta$ , tg $\delta$	37.644 1.043	27.54 -0.296	50.172 1.522	19.83 +1.148	5.342 1.265	30.52 -0.774	25.258 1.108	53.43 +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.
1920	$22^h 1^m$	$-0^\circ 42'$	$22^h 2^m$	$-14^\circ 15'$	$22^h 2^m$	$+62^\circ 23'$	$22^h 3^m$	$-47^\circ 20'$
Jan. I.I	40.555 <sup>51</sup>	26.28 <sup>79</sup>	7.065 <sup>52</sup>	27.36 <sup>18</sup>	33.92 <sup>28</sup>	63.45 <sup>219</sup>	II.322 <sup>101</sup>	62.04 <sup>138</sup>
II.I	40.504 <sup>26</sup>	27.07 <sup>76</sup>	7.013 <sup>24</sup>	27.54 <sup>7</sup>	33.64 <sup>22</sup>	61.26 <sup>259</sup>	II.221 <sup>60</sup>	60.66 <sup>169</sup>
21.I	40.478 <sup>0</sup>	27.83 <sup>70</sup>	6.989 <sup>4</sup>	27.61 <sup>8</sup>	33.42 <sup>15</sup>	58.67 <sup>289</sup>	II.161 <sup>16</sup>	58.97 <sup>196</sup>
31.I	40.478 <sup>29</sup>	28.53 <sup>58</sup>	6.993 <sup>32</sup>	27.53 <sup>24</sup>	33.27 <sup>8</sup>	55.78 <sup>308</sup>	II.145 <sup>29</sup>	57.01 <sup>218</sup>
Feb. 10.0	40.507 <sup>58</sup>	29.11 <sup>43</sup>	7.025 <sup>63</sup>	27.29 <sup>41</sup>	33.19 <sup>0</sup>	52.70 <sup>314</sup>	II.174 <sup>75</sup>	54.83 <sup>236</sup>
20.0	40.565 <sup>90</sup>	29.54 <sup>24</sup>	7.088 <sup>94</sup>	26.88 <sup>60</sup>	33.19 <sup>9</sup>	49.56 <sup>307</sup>	II.249 <sup>119</sup>	52.47 <sup>248</sup>
März I.0	40.655 <sup>121</sup>	29.78 <sup>2</sup>	7.182 <sup>126</sup>	26.28 <sup>78</sup>	33.28 <sup>17</sup>	46.49 <sup>288</sup>	II.368 <sup>165</sup>	49.99 <sup>256</sup>
II.0	40.776 <sup>153</sup>	29.80 <sup>24</sup>	7.308 <sup>158</sup>	25.50 <sup>99</sup>	33.45 <sup>25</sup>	43.61 <sup>258</sup>	II.533 <sup>210</sup>	47.43 <sup>259</sup>
20.9	40.929 <sup>184</sup>	29.56 <sup>51</sup>	7.466 <sup>190</sup>	24.51 <sup>119</sup>	33.70 <sup>33</sup>	41.03 <sup>217</sup>	II.743 <sup>251</sup>	44.84 <sup>256</sup>
30.9	41.113 <sup>215</sup>	29.05 <sup>79</sup>	7.656 <sup>220</sup>	23.32 <sup>136</sup>	34.03 <sup>40</sup>	38.86 <sup>168</sup>	II.994 <sup>292</sup>	42.28 <sup>250</sup>
Apr. 9.9	41.328 <sup>243</sup>	28.26 <sup>105</sup>	7.876 <sup>248</sup>	21.96 <sup>153</sup>	34.43 <sup>45</sup>	37.18 <sup>113</sup>	12.286 <sup>329</sup>	39.78 <sup>238</sup>
19.8	41.571 <sup>266</sup>	27.21 <sup>131</sup>	8.124 <sup>273</sup>	20.43 <sup>165</sup>	34.88 <sup>49</sup>	36.05 <sup>54</sup>	12.615 <sup>361</sup>	37.40 <sup>220</sup>
29.8	41.837 <sup>285</sup>	25.90 <sup>152</sup>	8.397 <sup>292</sup>	18.78 <sup>174</sup>	35.37 <sup>52</sup>	35.51 <sup>6</sup>	12.976 <sup>386</sup>	35.20 <sup>198</sup>
Mai 9.8	42.122 <sup>298</sup>	24.38 <sup>171</sup>	8.689 <sup>306</sup>	17.04 <sup>179</sup>	35.89 <sup>54</sup>	35.57 <sup>66</sup>	13.362 <sup>405</sup>	33.22 <sup>172</sup>
19.8	42.420 <sup>305</sup>	22.67 <sup>184</sup>	8.995 <sup>313</sup>	15.25 <sup>178</sup>	36.43 <sup>54</sup>	36.23 <sup>124</sup>	13.767 <sup>414</sup>	31.50 <sup>140</sup>
29.7	42.725 <sup>303</sup>	20.83 <sup>192</sup>	9.308 <sup>313</sup>	13.47 <sup>173</sup>	36.97 <sup>52</sup>	37.47 <sup>178</sup>	14.181 <sup>414</sup>	30.10 <sup>106</sup>
Juni 8.7	43.028 <sup>294</sup>	18.91 <sup>195</sup>	9.621 <sup>304</sup>	11.74 <sup>164</sup>	37.49 <sup>49</sup>	39.25 <sup>225</sup>	14.595 <sup>403</sup>	29.04 <sup>69</sup>
18.7	43.322 <sup>276</sup>	16.96 <sup>192</sup>	9.925 <sup>287</sup>	10.10 <sup>150</sup>	37.98 <sup>44</sup>	41.50 <sup>268</sup>	14.998 <sup>382</sup>	28.35 <sup>30</sup>
28.7	43.598 <sup>253</sup>	15.04 <sup>184</sup>	10.212 <sup>263</sup>	8.60 <sup>131</sup>	38.42 <sup>39</sup>	44.18 <sup>303</sup>	15.380 <sup>350</sup>	28.05 <sup>9</sup>
Juli 8.6	43.851 <sup>222</sup>	13.20 <sup>173</sup>	10.475 <sup>232</sup>	7.29 <sup>110</sup>	38.81 <sup>33</sup>	47.21 <sup>330</sup>	15.730 <sup>310</sup>	28.14 <sup>48</sup>
18.6	44.073 <sup>185</sup>	11.47 <sup>157</sup>	10.707 <sup>195</sup>	6.19 <sup>88</sup>	39.14 <sup>25</sup>	50.51 <sup>350</sup>	16.040 <sup>260</sup>	28.62 <sup>85</sup>
28.6	44.258 <sup>145</sup>	9.90 <sup>139</sup>	10.902 <sup>153</sup>	5.31 <sup>62</sup>	39.39 <sup>18</sup>	54.01 <sup>361</sup>	16.300 <sup>204</sup>	29.47 <sup>119</sup>
Aug. 7.5	44.403 <sup>103</sup>	8.51 <sup>118</sup>	11.055 <sup>109</sup>	4.69 <sup>39</sup>	39.57 <sup>9</sup>	57.62 <sup>365</sup>	16.504 <sup>144</sup>	30.66 <sup>146</sup>
17.5	44.506 <sup>58</sup>	7.33 <sup>95</sup>	11.164 <sup>64</sup>	4.30 <sup>15</sup>	39.66 <sup>2</sup>	61.27 <sup>361</sup>	16.648 <sup>79</sup>	32.12 <sup>170</sup>
27.5	44.564 <sup>16</sup>	6.38 <sup>73</sup>	11.228 <sup>18</sup>	4.15 <sup>7</sup>	39.68 <sup>6</sup>	64.88 <sup>350</sup>	16.727 <sup>16</sup>	33.82 <sup>186</sup>
Sept. 6.5	44.580 <sup>25</sup>	5.65 <sup>52</sup>	11.246 <sup>23</sup>	4.22 <sup>26</sup>	39.62 <sup>13</sup>	68.38 <sup>330</sup>	16.743 <sup>46</sup>	35.68 <sup>194</sup>
16.4	44.555 <sup>60</sup>	5.13 <sup>29</sup>	11.223 <sup>62</sup>	4.48 <sup>42</sup>	39.49 <sup>20</sup>	71.68 <sup>304</sup>	16.697 <sup>102</sup>	37.62 <sup>194</sup>
26.4	44.495 <sup>90</sup>	4.84 <sup>11</sup>	11.161 <sup>93</sup>	4.90 <sup>54</sup>	39.29 <sup>26</sup>	74.72 <sup>273</sup>	16.595 <sup>150</sup>	39.56 <sup>185</sup>
Okt. 6.4	44.405 <sup>114</sup>	4.73 <sup>7</sup>	11.068 <sup>118</sup>	5.44 <sup>63</sup>	39.03 <sup>31</sup>	77.45 <sup>233</sup>	16.445 <sup>190</sup>	41.41 <sup>170</sup>
16.4	44.291 <sup>130</sup>	4.80 <sup>24</sup>	10.950 <sup>136</sup>	6.07 <sup>68</sup>	38.72 <sup>36</sup>	79.78 <sup>189</sup>	16.255 <sup>219</sup>	43.11 <sup>146</sup>
26.3	44.161 <sup>139</sup>	5.04 <sup>37</sup>	10.814 <sup>145</sup>	6.75 <sup>69</sup>	38.36 <sup>38</sup>	81.67 <sup>141</sup>	16.036 <sup>236</sup>	44.57 <sup>115</sup>
Nov. 5.3	44.022 <sup>141</sup>	5.41 <sup>50</sup>	10.669 <sup>147</sup>	7.44 <sup>67</sup>	37.98 <sup>40</sup>	83.08 <sup>86</sup>	15.800 <sup>242</sup>	45.72 <sup>81</sup>
15.3	43.881 <sup>135</sup>	5.91 <sup>61</sup>	10.522 <sup>141</sup>	8.11 <sup>63</sup>	37.58 <sup>41</sup>	83.94 <sup>31</sup>	15.558 <sup>236</sup>	46.53 <sup>42</sup>
25.2	43.746 <sup>125</sup>	6.52 <sup>68</sup>	10.381 <sup>129</sup>	8.74 <sup>56</sup>	37.17 <sup>40</sup>	84.25 <sup>28</sup>	15.322 <sup>220</sup>	46.95 <sup>3</sup>
Dez. 5.2	43.621 <sup>110</sup>	7.20 <sup>76</sup>	10.252 <sup>113</sup>	9.30 <sup>49</sup>	36.77 <sup>39</sup>	83.97 <sup>85</sup>	15.102 <sup>196</sup>	46.98 <sup>39</sup>
15.2	43.511 <sup>91</sup>	7.96 <sup>80</sup>	10.139 <sup>93</sup>	9.79 <sup>39</sup>	36.38 <sup>35</sup>	83.12 <sup>142</sup>	14.906 <sup>164</sup>	46.59 <sup>77</sup>
25.2	43.420 <sup>69</sup>	8.76 <sup>81</sup>	10.046 <sup>69</sup>	10.18 <sup>29</sup>	36.03 <sup>31</sup>	81.70 <sup>192</sup>	14.742 <sup>128</sup>	45.82 <sup>115</sup>
35.1	43.351	9.57	9.977	10.47	35.72	79.78	14.614	44.67
Mittl. Ort sec $\delta$ , tg $\delta$	40.536 1.000	32.65 -0.012	7.110 1.032	30.03 -0.254	34.55 2.158	41.97 +1.912	11.881 1.476	57.26 -1.086

Mittlere Zeit Greenw.	834) $\theta$ Pegasi		835) $\pi$ Pegasi		836) $\zeta$ Cephei		837) $\alpha$ Cephei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	22 <sup>h</sup> 6 <sup>m</sup>	+5° 48'	22 <sup>h</sup> 6 <sup>m</sup>	+32° 47'	22 <sup>h</sup> 8 <sup>m</sup>	+57° 48'	22 <sup>h</sup> 8 <sup>m</sup>	+71° 56'
Jan. 1. I	9.925 <sup>58</sup>	21.55 <sup>105</sup>	25.958 <sup>100</sup>	22.11 <sup>187</sup>	4.196 <sup>233</sup>	44.32 <sup>214</sup>	15.16 <sup>48</sup>	71.88 <sup>206</sup>
11. I	9.867 <sup>33</sup>	20.50 <sup>106</sup>	25.858 <sup>71</sup>	20.24 <sup>209</sup>	3.963 <sup>184</sup>	42.18 <sup>252</sup>	14.68 <sup>40</sup>	69.82 <sup>253</sup>
21. I	9.834 <sup>7</sup>	19.44 <sup>103</sup>	25.787 <sup>38</sup>	18.15 <sup>223</sup>	3.779 <sup>127</sup>	39.66 <sup>281</sup>	14.28 <sup>29</sup>	67.29 <sup>287</sup>
31. I	9.827 <sup>22</sup>	18.41 <sup>95</sup>	25.749 <sup>2</sup>	15.92 <sup>228</sup>	3.652 <sup>65</sup>	36.85 <sup>299</sup>	13.99 <sup>17</sup>	64.42 <sup>311</sup>
Feb. 10. 0	9.849 <sup>52</sup>	17.46 <sup>82</sup>	25.747 <sup>37</sup>	13.64 <sup>223</sup>	3.587 <sup>3</sup>	33.86 <sup>304</sup>	13.82 <sup>5</sup>	61.31 <sup>323</sup>
20. 0	9.901 <sup>84</sup>	16.64 <sup>63</sup>	25.784 <sup>77</sup>	11.41 <sup>209</sup>	3.590 <sup>75</sup>	30.82 <sup>298</sup>	13.77 <sup>7</sup>	58.08 <sup>321</sup>
März 1. 0	9.985 <sup>115</sup>	16.01 <sup>120</sup>	25.861 <sup>120</sup>	9.32 <sup>185</sup>	3.665 <sup>147</sup>	27.84 <sup>279</sup>	13.84 <sup>21</sup>	54.87 <sup>307</sup>
11. 0	10.100 <sup>149</sup>	15.61 <sup>140</sup>	25.981 <sup>161</sup>	7.47 <sup>153</sup>	3.812 <sup>218</sup>	25.05 <sup>249</sup>	14.05 <sup>34</sup>	51.80 <sup>280</sup>
20. 9	10.249 <sup>181</sup>	15.49 <sup>18</sup>	26.142 <sup>202</sup>	5.94 <sup>114</sup>	4.030 <sup>284</sup>	22.57 <sup>208</sup>	14.39 <sup>45</sup>	49.00 <sup>242</sup>
30. 9	10.430 <sup>213</sup>	15.67 <sup>49</sup>	26.344 <sup>239</sup>	4.80 <sup>69</sup>	4.314 <sup>343</sup>	20.48 <sup>160</sup>	14.84 <sup>55</sup>	46.58 <sup>196</sup>
Apr. 9. 9	10.643 <sup>241</sup>	16.16 <sup>81</sup>	26.583 <sup>274</sup>	4.11 <sup>22</sup>	4.657 <sup>395</sup>	18.88 <sup>106</sup>	15.39 <sup>63</sup>	44.62 <sup>142</sup>
19. 8	10.884 <sup>266</sup>	16.97 <sup>112</sup>	26.857 <sup>301</sup>	3.89 <sup>27</sup>	5.052 <sup>435</sup>	17.82 <sup>49</sup>	16.02 <sup>70</sup>	43.20 <sup>84</sup>
29. 8	11.150 <sup>285</sup>	18.09 <sup>140</sup>	27.158 <sup>322</sup>	4.16 <sup>76</sup>	5.487 <sup>464</sup>	17.33 <sup>11</sup>	16.72 <sup>74</sup>	42.36 <sup>22</sup>
Mai 9. 8	11.435 <sup>299</sup>	19.49 <sup>164</sup>	27.480 <sup>336</sup>	4.92 <sup>123</sup>	5.951 <sup>479</sup>	17.44 <sup>69</sup>	17.46 <sup>76</sup>	42.14 <sup>38</sup>
19. 8	11.734 <sup>305</sup>	21.13 <sup>184</sup>	27.816 <sup>340</sup>	6.15 <sup>165</sup>	6.430 <sup>480</sup>	18.13 <sup>126</sup>	18.22 <sup>76</sup>	42.52 <sup>98</sup>
29. 7	12.039 <sup>304</sup>	22.97 <sup>198</sup>	28.156 <sup>336</sup>	7.80 <sup>202</sup>	6.910 <sup>469</sup>	19.39 <sup>178</sup>	18.98 <sup>74</sup>	43.50 <sup>155</sup>
Juni 8. 7	12.343 <sup>295</sup>	24.95 <sup>207</sup>	28.492 <sup>322</sup>	9.82 <sup>235</sup>	7.379 <sup>444</sup>	21.17 <sup>225</sup>	19.72 <sup>68</sup>	45.05 <sup>206</sup>
18. 7	12.638 <sup>278</sup>	27.02 <sup>210</sup>	28.814 <sup>301</sup>	12.17 <sup>260</sup>	7.823 <sup>408</sup>	23.42 <sup>266</sup>	20.40 <sup>62</sup>	47.11 <sup>252</sup>
28. 7	12.916 <sup>254</sup>	29.12 <sup>209</sup>	29.115 <sup>271</sup>	14.77 <sup>278</sup>	8.231 <sup>361</sup>	26.08 <sup>300</sup>	21.02 <sup>55</sup>	49.63 <sup>291</sup>
Juli 8. 6	13.170 <sup>224</sup>	31.21 <sup>201</sup>	29.386 <sup>235</sup>	17.55 <sup>291</sup>	8.592 <sup>306</sup>	29.08 <sup>325</sup>	21.57 <sup>45</sup>	52.54 <sup>323</sup>
18. 6	13.394 <sup>187</sup>	33.22 <sup>189</sup>	29.621 <sup>193</sup>	20.46 <sup>295</sup>	8.898 <sup>243</sup>	32.33 <sup>344</sup>	22.02 <sup>35</sup>	55.77 <sup>348</sup>
28. 6	13.581 <sup>148</sup>	35.11 <sup>174</sup>	29.814 <sup>147</sup>	23.41 <sup>293</sup>	9.141 <sup>176</sup>	35.77 <sup>355</sup>	22.37 <sup>24</sup>	59.25 <sup>364</sup>
Aug. 7. 5	13.729 <sup>105</sup>	36.85 <sup>155</sup>	29.961 <sup>99</sup>	26.34 <sup>285</sup>	9.317 <sup>106</sup>	39.32 <sup>358</sup>	22.61 <sup>12</sup>	62.89 <sup>372</sup>
17. 5	13.834 <sup>61</sup>	38.40 <sup>134</sup>	30.060 <sup>51</sup>	29.19 <sup>271</sup>	9.423 <sup>36</sup>	42.90 <sup>353</sup>	22.73 <sup>1</sup>	66.61 <sup>373</sup>
27. 5	13.895 <sup>18</sup>	39.74 <sup>112</sup>	30.111 <sup>3</sup>	31.90 <sup>253</sup>	9.459 <sup>33</sup>	46.43 <sup>340</sup>	22.74 <sup>10</sup>	70.34 <sup>365</sup>
Sept. 6. 5	13.913 <sup>21</sup>	40.86 <sup>89</sup>	30.114 <sup>41</sup>	34.43 <sup>229</sup>	9.426 <sup>99</sup>	49.83 <sup>322</sup>	22.64 <sup>21</sup>	73.99 <sup>350</sup>
16. 4	13.892 <sup>57</sup>	41.75 <sup>65</sup>	30.073 <sup>81</sup>	36.72 <sup>201</sup>	9.327 <sup>158</sup>	53.05 <sup>296</sup>	22.43 <sup>31</sup>	77.49 <sup>327</sup>
26. 4	13.835 <sup>88</sup>	42.40 <sup>43</sup>	29.992 <sup>116</sup>	38.73 <sup>170</sup>	9.169 <sup>210</sup>	56.01 <sup>264</sup>	22.12 <sup>40</sup>	80.76 <sup>298</sup>
Okt. 6. 4	13.747 <sup>111</sup>	42.83 <sup>20</sup>	29.876 <sup>143</sup>	40.43 <sup>136</sup>	8.959 <sup>256</sup>	58.65 <sup>225</sup>	21.72 <sup>48</sup>	83.74 <sup>262</sup>
16. 4	13.636 <sup>128</sup>	43.03 <sup>0</sup>	29.733 <sup>163</sup>	41.79 <sup>98</sup>	8.703 <sup>292</sup>	60.90 <sup>183</sup>	21.24 <sup>54</sup>	86.36 <sup>219</sup>
26. 3	13.508 <sup>138</sup>	43.03 <sup>20</sup>	29.570 <sup>177</sup>	42.77 <sup>60</sup>	8.411 <sup>317</sup>	62.73 <sup>134</sup>	20.70 <sup>60</sup>	88.55 <sup>171</sup>
Nov. 5. 3	13.370 <sup>140</sup>	42.83 <sup>38</sup>	29.393 <sup>182</sup>	43.37 <sup>19</sup>	8.094 <sup>333</sup>	64.07 <sup>83</sup>	20.10 <sup>63</sup>	90.26 <sup>116</sup>
15. 3	13.230 <sup>137</sup>	42.45 <sup>56</sup>	29.211 <sup>181</sup>	43.56 <sup>22</sup>	7.761 <sup>340</sup>	64.90 <sup>28</sup>	19.47 <sup>65</sup>	91.42 <sup>59</sup>
25. 2	13.093 <sup>127</sup>	41.89 <sup>71</sup>	29.030 <sup>173</sup>	43.34 <sup>63</sup>	7.421 <sup>335</sup>	65.18 <sup>28</sup>	18.82 <sup>65</sup>	92.01 <sup>1</sup>
Dez. 5. 2	12.966 <sup>113</sup>	41.18 <sup>84</sup>	28.857 <sup>161</sup>	42.71 <sup>103</sup>	7.086 <sup>321</sup>	64.90 <sup>85</sup>	18.17 <sup>63</sup>	92.00 <sup>62</sup>
15. 2	12.853 <sup>95</sup>	40.34 <sup>96</sup>	28.696 <sup>143</sup>	41.68 <sup>139</sup>	6.765 <sup>296</sup>	64.05 <sup>139</sup>	17.54 <sup>59</sup>	91.38 <sup>122</sup>
25. 2	12.758 <sup>75</sup>	39.38 <sup>104</sup>	28.553 <sup>119</sup>	40.29 <sup>172</sup>	6.469 <sup>263</sup>	62.66 <sup>188</sup>	16.95 <sup>53</sup>	90.16 <sup>177</sup>
35. 1	12.683	38.34	28.434	38.57	6.206	60.78	16.42	88.39
Mittl. Ort sec $\delta$ , tg $\delta$	9.867 1.005	13.39 +0.102	25.955 1.189	6.60 +0.644	4.574 1.877	23.39 +1.588	16.37 3.227	48.93 +3.068

Mittlere Zeit Greenw.	840) $\delta$ Aquarii		841) $\alpha$ Tucanae		842) $\gamma$ Aquarii		844) $\zeta$ Lacertae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	22 <sup>h</sup> 12 <sup>m</sup>	-8° 10'	22 <sup>h</sup> 13 <sup>m</sup>	-6° 39'	22 <sup>h</sup> 17 <sup>m</sup>	-1° 46'	22 <sup>h</sup> 20 <sup>m</sup>	+51° 49'
Jan. I.I	36.853 <sub>58</sub>	51.66 <sub>47</sub>	0.92 <sub>19</sub>	39.76 <sub>189</sub>	31.578 <sub>61</sub>	81.79 <sub>73</sub>	24.570 <sub>195</sub>	60.19 <sub>200</sub>
II.I	36.795 <sub>34</sub>	52.13 <sub>37</sub>	0.73 <sub>13</sub>	37.87 <sub>227</sub>	31.517 <sub>39</sub>	82.52 <sub>69</sub>	24.375 <sub>156</sub>	58.19 <sub>236</sub>
2I.I	36.761 <sub>7</sub>	52.50 <sub>27</sub>	0.60 <sub>7</sub>	35.60 <sub>257</sub>	31.478 <sub>13</sub>	83.21 <sub>61</sub>	24.219 <sub>112</sub>	55.83 <sub>265</sub>
3I.I	36.754 <sub>21</sub>	52.77 <sub>12</sub>	0.53 <sub>1</sub>	33.03 <sub>282</sub>	31.465 <sub>14</sub>	83.82 <sub>49</sub>	24.107 <sub>60</sub>	53.18 <sub>282</sub>
Feb. 10.0	36.775 <sub>50</sub>	52.89 <sub>4</sub>	0.52 <sub>6</sub>	30.21 <sub>299</sub>	31.479 <sub>43</sub>	84.31 <sub>35</sub>	24.047 <sub>4</sub>	50.36 <sub>287</sub>
20.0	36.825 <sub>81</sub>	52.85 <sub>24</sub>	0.58 <sub>13</sub>	27.22 <sub>309</sub>	31.522 <sub>73</sub>	84.66 <sub>16</sub>	24.043 <sub>55</sub>	47.49 <sub>282</sub>
März 1.0	36.906 <sub>112</sub>	52.61 <sub>44</sub>	0.71 <sub>19</sub>	24.13 <sub>314</sub>	31.595 <sub>106</sub>	84.82 <sub>7</sub>	24.098 <sub>117</sub>	44.67 <sub>265</sub>
II.0	37.018 <sub>145</sub>	52.17 <sub>67</sub>	0.90 <sub>25</sub>	20.99 <sub>311</sub>	31.701 <sub>138</sub>	84.75 <sub>31</sub>	24.215 <sub>178</sub>	42.02 <sub>235</sub>
20.9	37.163 <sub>177</sub>	51.50 <sub>90</sub>	1.15 <sub>31</sub>	17.88 <sub>301</sub>	31.839 <sub>171</sub>	84.44 <sub>57</sub>	24.393 <sub>236</sub>	39.67 <sub>197</sub>
30.9	37.340 <sub>209</sub>	50.60 <sub>113</sub>	1.46 <sub>36</sub>	14.87 <sub>287</sub>	32.010 <sub>204</sub>	83.87 <sub>84</sub>	24.629 <sub>291</sub>	37.70 <sub>152</sub>
Apr. 9.9	37.549 <sub>237</sub>	49.47 <sub>134</sub>	1.82 <sub>42</sub>	12.00 <sub>265</sub>	32.214 <sub>232</sub>	83.03 <sub>110</sub>	24.920 <sub>337</sub>	36.18 <sub>100</sub>
19.8	37.786 <sub>263</sub>	48.13 <sub>152</sub>	2.24 <sub>46</sub>	9.35 <sub>239</sub>	32.446 <sub>259</sub>	81.93 <sub>135</sub>	25.257 <sub>377</sub>	35.18 <sub>45</sub>
29.8	38.049 <sub>284</sub>	46.61 <sub>167</sub>	2.70 <sub>50</sub>	6.96 <sub>207</sub>	32.705 <sub>281</sub>	80.58 <sub>155</sub>	25.634 <sub>405</sub>	34.73 <sub>12</sub>
Mai 9.8	38.333 <sub>300</sub>	44.94 <sub>179</sub>	3.20 <sub>52</sub>	4.89 <sub>170</sub>	32.986 <sub>295</sub>	79.03 <sub>172</sub>	26.039 <sub>424</sub>	34.85 <sub>69</sub>
19.8	38.633 <sub>307</sub>	43.15 <sub>184</sub>	3.72 <sub>53</sub>	3.19 <sub>130</sub>	33.281 <sub>305</sub>	77.31 <sub>186</sub>	26.463 <sub>430</sub>	35.54 <sub>123</sub>
29.7	38.940 <sub>308</sub>	41.31 <sub>185</sub>	4.25 <sub>54</sub>	1.89 <sub>86</sub>	33.586 <sub>306</sub>	75.45 <sub>192</sub>	26.893 <sub>423</sub>	36.77 <sub>173</sub>
Juni 8.7	39.248 <sub>301</sub>	39.46 <sub>181</sub>	4.79 <sub>52</sub>	1.03 <sub>40</sub>	33.892 <sub>299</sub>	73.53 <sub>195</sub>	27.316 <sub>407</sub>	38.50 <sub>218</sub>
18.7	39.549 <sub>287</sub>	37.65 <sub>173</sub>	5.31 <sub>51</sub>	0.63 <sub>6</sub>	34.191 <sub>284</sub>	71.58 <sub>191</sub>	27.723 <sub>379</sub>	40.68 <sub>257</sub>
28.7	39.836 <sub>263</sub>	35.92 <sub>159</sub>	5.82 <sub>46</sub>	0.69 <sub>52</sub>	34.475 <sub>263</sub>	69.67 <sub>183</sub>	28.102 <sub>341</sub>	43.25 <sub>289</sub>
Juli 8.6	40.099 <sub>234</sub>	34.33 <sub>142</sub>	6.28 <sub>41</sub>	1.21 <sub>97</sub>	34.738 <sub>234</sub>	67.84 <sub>171</sub>	28.443 <sub>295</sub>	46.14 <sub>315</sub>
18.6	40.333 <sub>199</sub>	32.91 <sub>122</sub>	6.69 <sub>35</sub>	2.18 <sub>137</sub>	34.972 <sub>199</sub>	66.13 <sub>155</sub>	28.738 <sub>242</sub>	49.29 <sub>331</sub>
28.6	40.532 <sub>159</sub>	31.69 <sub>100</sub>	7.04 <sub>27</sub>	3.55 <sub>174</sub>	35.171 <sub>159</sub>	64.58 <sub>135</sub>	28.980 <sub>184</sub>	52.60 <sub>342</sub>
Aug. 7.5	40.691 <sub>116</sub>	30.69 <sub>76</sub>	7.31 <sub>19</sub>	5.29 <sub>204</sub>	35.330 <sub>118</sub>	63.23 <sub>114</sub>	29.164 <sub>124</sub>	56.02 <sub>344</sub>
17.5	40.807 <sub>72</sub>	29.93 <sub>52</sub>	7.50 <sub>11</sub>	7.33 <sub>227</sub>	35.448 <sub>74</sub>	62.09 <sub>91</sub>	29.288 <sub>62</sub>	59.46 <sub>339</sub>
27.5	40.879 <sub>27</sub>	29.41 <sub>30</sub>	7.61 <sub>2</sub>	9.60 <sub>241</sub>	35.522 <sub>32</sub>	61.18 <sub>69</sub>	29.350 <sub>1</sub>	62.85 <sub>327</sub>
Sept. 6.5	40.906 <sub>12</sub>	29.11 <sub>9</sub>	7.63 <sub>6</sub>	12.01 <sub>247</sub>	35.554 <sub>9</sub>	60.49 <sub>46</sub>	29.351 <sub>56</sub>	66.12 <sub>308</sub>
16.4	40.894 <sub>51</sub>	29.02 <sub>11</sub>	7.57 <sub>14</sub>	14.48 <sub>241</sub>	35.545 <sub>15</sub>	60.03 <sub>24</sub>	29.295 <sub>109</sub>	69.20 <sub>284</sub>
26.4	40.843 <sub>82</sub>	29.13 <sub>27</sub>	7.43 <sub>22</sub>	16.89 <sub>227</sub>	35.500 <sub>78</sub>	59.79 <sub>5</sub>	29.186 <sub>156</sub>	72.04 <sub>253</sub>
Okt. 6.4	40.761 <sub>107</sub>	29.40 <sub>39</sub>	7.21 <sub>27</sub>	19.16 <sub>203</sub>	35.422 <sub>102</sub>	59.74 <sub>12</sub>	29.030 <sub>196</sub>	74.57 <sub>217</sub>
16.4	40.654 <sub>125</sub>	29.79 <sub>51</sub>	6.94 <sub>32</sub>	21.19 <sub>171</sub>	35.320 <sub>120</sub>	59.86 <sub>28</sub>	28.834 <sub>228</sub>	76.74 <sub>175</sub>
26.3	40.529 <sub>137</sub>	30.30 <sub>57</sub>	6.62 <sub>34</sub>	22.90 <sub>130</sub>	35.200 <sub>132</sub>	60.14 <sub>41</sub>	28.606 <sub>252</sub>	78.49 <sub>130</sub>
Nov. 5.3	40.392 <sub>139</sub>	30.87 <sub>62</sub>	6.28 <sub>37</sub>	24.20 <sub>85</sub>	35.068 <sub>136</sub>	60.55 <sub>52</sub>	28.354 <sub>268</sub>	79.79 <sub>81</sub>
15.3	40.253 <sub>136</sub>	31.49 <sub>65</sub>	5.91 <sub>36</sub>	25.05 <sub>35</sub>	34.932 <sub>134</sub>	61.07 <sub>61</sub>	28.086 <sub>275</sub>	80.60 <sub>30</sub>
25.2	40.117 <sub>127</sub>	32.14 <sub>64</sub>	5.55 <sub>34</sub>	25.40 <sub>16</sub>	34.798 <sub>126</sub>	61.68 <sub>67</sub>	27.811 <sub>273</sub>	80.90 <sub>24</sub>
Dez. 5.2	39.990 <sub>113</sub>	32.78 <sub>63</sub>	5.21 <sub>32</sub>	25.24 <sub>67</sub>	34.672 <sub>113</sub>	62.35 <sub>73</sub>	27.538 <sub>263</sub>	80.66 <sub>78</sub>
15.2	39.877 <sub>95</sub>	33.41 <sub>59</sub>	4.89 <sub>27</sub>	24.57 <sub>116</sub>	34.559 <sub>97</sub>	63.08 <sub>76</sub>	27.275 <sub>245</sub>	79.88 <sub>128</sub>
25.2	39.782 <sub>75</sub>	34.00 <sub>53</sub>	4.62 <sub>23</sub>	23.41 <sub>161</sub>	34.462 <sub>78</sub>	63.84 <sub>76</sub>	27.030 <sub>217</sub>	78.60 <sub>176</sub>
35.1	39.707	34.53	4.39	21.80	34.384	64.60	26.813	76.84
Mittl. Ort sec $\delta$ , tg $\delta$	36.815 1.010	55.76 -0.144	2.02 2.041	32.49 -1.779	31.488 1.000	87.64 -0.031	24.660 1.618	40.02 -1.272

Mittlere Zeit Greenw.	848) 7 Lacertae		850) 7 Aquarii		852) 10 Lacertae		855) 5 Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	22 <sup>h</sup> 27 <sup>m</sup>	+49° 52'	22 <sup>h</sup> 31 <sup>m</sup>	-0° 31'	22 <sup>h</sup> 35 <sup>m</sup>	+38° 37'	22 <sup>h</sup> 37 <sup>m</sup>	+10° 24'
Jan. 1.2	59.569 <sup>187</sup>	34.78 <sup>191</sup>	14.924 <sup>71</sup>	43.11 <sup>77</sup>	40.327 <sup>138</sup>	78.01 <sup>174</sup>	28.523 <sup>82</sup>	57.19 <sup>111</sup>
11.1	59.382 <sup>153</sup>	32.87 <sup>227</sup>	14.853 <sup>50</sup>	43.88 <sup>73</sup>	40.189 <sup>112</sup>	76.27 <sup>204</sup>	28.441 <sup>60</sup>	56.08 <sup>117</sup>
21.1	59.229 <sup>111</sup>	30.60 <sup>255</sup>	14.803 <sup>25</sup>	44.61 <sup>66</sup>	40.077 <sup>80</sup>	74.23 <sup>225</sup>	28.381 <sup>37</sup>	54.91 <sup>119</sup>
31.1	59.118 <sup>63</sup>	28.05 <sup>273</sup>	14.778 <sup>0</sup>	45.27 <sup>55</sup>	39.997 <sup>43</sup>	71.98 <sup>237</sup>	28.344 <sup>11</sup>	53.72 <sup>114</sup>
Feb. 10.1	59.055 <sup>11</sup>	25.32 <sup>280</sup>	14.778 <sup>29</sup>	45.82 <sup>41</sup>	39.954 <sup>3</sup>	69.61 <sup>240</sup>	28.333 <sup>18</sup>	52.58 <sup>103</sup>
20.0	59.044 <sup>46</sup>	22.52 <sup>275</sup>	14.807 <sup>59</sup>	46.23 <sup>22</sup>	39.951 <sup>41</sup>	67.21 <sup>232</sup>	28.351 <sup>50</sup>	51.55 <sup>88</sup>
März 1.0	59.090 <sup>103</sup>	19.77 <sup>258</sup>	14.866 <sup>91</sup>	46.45 <sup>0</sup>	39.992 <sup>87</sup>	64.89 <sup>215</sup>	28.401 <sup>83</sup>	50.67 <sup>66</sup>
11.0	59.193 <sup>163</sup>	17.19 <sup>231</sup>	14.957 <sup>125</sup>	46.45 <sup>24</sup>	40.079 <sup>135</sup>	62.74 <sup>187</sup>	28.484 <sup>119</sup>	50.01 <sup>39</sup>
20.9	59.356 <sup>220</sup>	14.88 <sup>194</sup>	15.082 <sup>159</sup>	46.21 <sup>51</sup>	40.214 <sup>183</sup>	60.87 <sup>153</sup>	28.603 <sup>155</sup>	49.62 <sup>10</sup>
30.9	59.576 <sup>273</sup>	12.94 <sup>149</sup>	15.241 <sup>192</sup>	45.70 <sup>78</sup>	40.397 <sup>226</sup>	59.34 <sup>110</sup>	28.758 <sup>189</sup>	49.52 <sup>24</sup>
Apr. 9.9	59.849 <sup>319</sup>	11.45 <sup>100</sup>	15.433 <sup>223</sup>	44.92 <sup>105</sup>	40.623 <sup>268</sup>	58.24 <sup>63</sup>	28.947 <sup>222</sup>	49.76 <sup>57</sup>
19.9	60.168 <sup>360</sup>	10.45 <sup>45</sup>	15.656 <sup>251</sup>	43.87 <sup>131</sup>	40.891 <sup>302</sup>	57.61 <sup>14</sup>	29.169 <sup>252</sup>	50.33 <sup>90</sup>
29.8	60.528 <sup>389</sup>	10.00 <sup>11</sup>	15.907 <sup>275</sup>	42.56 <sup>152</sup>	41.193 <sup>331</sup>	57.47 <sup>37</sup>	29.421 <sup>276</sup>	51.23 <sup>122</sup>
Mai 9.8	60.917 <sup>409</sup>	10.11 <sup>65</sup>	16.182 <sup>293</sup>	41.04 <sup>171</sup>	41.524 <sup>350</sup>	57.84 <sup>86</sup>	29.697 <sup>294</sup>	52.45 <sup>151</sup>
19.8	61.326 <sup>417</sup>	10.76 <sup>120</sup>	16.475 <sup>303</sup>	39.33 <sup>185</sup>	41.874 <sup>361</sup>	58.70 <sup>134</sup>	29.991 <sup>306</sup>	53.96 <sup>175</sup>
29.8	61.743 <sup>414</sup>	11.96 <sup>168</sup>	16.778 <sup>306</sup>	37.48 <sup>194</sup>	42.235 <sup>361</sup>	60.04 <sup>176</sup>	30.297 <sup>310</sup>	55.71 <sup>195</sup>
Juni 8.7	62.157 <sup>400</sup>	13.64 <sup>213</sup>	17.084 <sup>302</sup>	35.54 <sup>198</sup>	42.596 <sup>352</sup>	61.80 <sup>214</sup>	30.607 <sup>305</sup>	57.66 <sup>209</sup>
18.7	62.557 <sup>374</sup>	15.77 <sup>252</sup>	17.386 <sup>290</sup>	33.56 <sup>196</sup>	42.948 <sup>334</sup>	63.94 <sup>246</sup>	30.912 <sup>292</sup>	59.75 <sup>218</sup>
28.7	62.931 <sup>340</sup>	18.29 <sup>284</sup>	17.676 <sup>269</sup>	31.60 <sup>189</sup>	43.282 <sup>307</sup>	66.40 <sup>272</sup>	31.204 <sup>273</sup>	61.93 <sup>221</sup>
Juli 8.6	63.271 <sup>298</sup>	21.13 <sup>309</sup>	17.945 <sup>242</sup>	29.71 <sup>178</sup>	43.589 <sup>272</sup>	69.12 <sup>290</sup>	31.477 <sup>245</sup>	64.14 <sup>219</sup>
18.6	63.569 <sup>247</sup>	24.22 <sup>326</sup>	18.187 <sup>209</sup>	27.93 <sup>163</sup>	43.861 <sup>231</sup>	72.02 <sup>302</sup>	31.722 <sup>212</sup>	66.33 <sup>210</sup>
28.6	63.816 <sup>192</sup>	27.48 <sup>336</sup>	18.396 <sup>171</sup>	26.30 <sup>144</sup>	44.092 <sup>185</sup>	75.04 <sup>307</sup>	31.934 <sup>174</sup>	68.43 <sup>198</sup>
Aug. 7.6	64.008 <sup>134</sup>	30.84 <sup>339</sup>	18.567 <sup>131</sup>	24.86 <sup>122</sup>	44.277 <sup>136</sup>	78.11 <sup>305</sup>	32.108 <sup>133</sup>	70.41 <sup>182</sup>
17.5	64.142 <sup>76</sup>	34.23 <sup>334</sup>	18.698 <sup>87</sup>	23.64 <sup>100</sup>	44.413 <sup>87</sup>	81.16 <sup>297</sup>	32.241 <sup>91</sup>	72.23 <sup>164</sup>
27.5	64.218 <sup>17</sup>	37.57 <sup>323</sup>	18.785 <sup>45</sup>	22.64 <sup>77</sup>	44.500 <sup>36</sup>	84.13 <sup>283</sup>	32.332 <sup>48</sup>	73.87 <sup>141</sup>
Sept. 6.5	64.235 <sup>38</sup>	40.80 <sup>306</sup>	18.830 <sup>4</sup>	21.87 <sup>54</sup>	44.536 <sup>11</sup>	86.96 <sup>263</sup>	32.380 <sup>8</sup>	75.28 <sup>119</sup>
16.5	64.197 <sup>90</sup>	43.86 <sup>281</sup>	18.834 <sup>33</sup>	21.33 <sup>32</sup>	44.525 <sup>55</sup>	89.59 <sup>239</sup>	32.388 <sup>29</sup>	76.47 <sup>94</sup>
26.4	64.107 <sup>137</sup>	46.67 <sup>251</sup>	18.801 <sup>65</sup>	21.01 <sup>12</sup>	44.470 <sup>94</sup>	91.98 <sup>211</sup>	32.359 <sup>62</sup>	77.41 <sup>70</sup>
Okt. 6.4	63.970 <sup>175</sup>	49.18 <sup>216</sup>	18.736 <sup>92</sup>	20.89 <sup>8</sup>	44.376 <sup>127</sup>	94.09 <sup>177</sup>	32.297 <sup>89</sup>	78.11 <sup>47</sup>
16.4	63.795 <sup>207</sup>	51.34 <sup>177</sup>	18.644 <sup>112</sup>	20.97 <sup>23</sup>	44.249 <sup>154</sup>	95.86 <sup>140</sup>	32.208 <sup>109</sup>	78.58 <sup>22</sup>
26.3	63.588 <sup>231</sup>	53.11 <sup>132</sup>	18.532 <sup>124</sup>	21.20 <sup>38</sup>	44.095 <sup>173</sup>	97.26 <sup>101</sup>	32.099 <sup>124</sup>	78.80 <sup>0</sup>
Nov. 5.3	63.357 <sup>248</sup>	54.43 <sup>84</sup>	18.408 <sup>131</sup>	21.58 <sup>50</sup>	43.922 <sup>186</sup>	98.27 <sup>59</sup>	31.975 <sup>132</sup>	78.80 <sup>22</sup>
15.3	63.109 <sup>255</sup>	55.27 <sup>34</sup>	18.277 <sup>132</sup>	22.08 <sup>60</sup>	43.736 <sup>192</sup>	98.86 <sup>15</sup>	31.843 <sup>133</sup>	78.58 <sup>43</sup>
25.3	62.854 <sup>256</sup>	55.61 <sup>18</sup>	18.145 <sup>126</sup>	22.68 <sup>68</sup>	43.544 <sup>192</sup>	99.01 <sup>30</sup>	31.710 <sup>131</sup>	78.15 <sup>62</sup>
Dez. 5.2	62.598 <sup>247</sup>	55.43 <sup>70</sup>	18.019 <sup>116</sup>	23.36 <sup>74</sup>	43.352 <sup>185</sup>	98.71 <sup>73</sup>	31.579 <sup>122</sup>	77.53 <sup>80</sup>
15.2	62.351 <sup>232</sup>	54.73 <sup>121</sup>	17.903 <sup>103</sup>	24.10 <sup>77</sup>	43.167 <sup>173</sup>	97.98 <sup>116</sup>	31.457 <sup>111</sup>	76.73 <sup>96</sup>
25.2	62.119 <sup>209</sup>	53.52 <sup>167</sup>	17.800 <sup>85</sup>	24.87 <sup>80</sup>	42.994 <sup>155</sup>	96.82 <sup>155</sup>	31.346 <sup>94</sup>	75.77 <sup>107</sup>
35.2	61.910	51.85	17.715	25.67	42.839	95.27	31.252	74.70
Mittl. Ort sec δ, tg δ	59.548 1.552	14.84 +1.186	14.760 1.000	49.13 -0.009	40.135 1.280	60.58 +0.799	28.290 1.017	47.89 +0.184

Mittlere Zeit Greenw.	856) β Gruis		857) η Pegasi		859) λ Pegasi		860) ε Gruis	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	22 <sup>h</sup> 37 <sup>m</sup>	-47° 17'	22 <sup>h</sup> 39 <sup>m</sup>	+29° 48'	22 <sup>h</sup> 42 <sup>m</sup>	+23° 8'	22 <sup>h</sup> 43 <sup>m</sup>	-51° 43'
Jan. 1.2	53.350 <sub>140</sub>	79.37 <sub>115</sub>	15.240 <sub>113</sub>	23.61 <sub>158</sub>	40.833 <sub>101</sub>	52.49 <sub>143</sub>	43.236 <sub>169</sub>	84.43 <sub>129</sub>
11.1	53.210 <sub>105</sub>	78.22 <sub>152</sub>	15.127 <sub>91</sub>	22.03 <sub>180</sub>	40.732 <sub>80</sub>	51.06 <sub>159</sub>	43.067 <sub>130</sub>	83.14 <sub>168</sub>
21.1	53.105 <sub>66</sub>	76.70 <sub>184</sub>	15.036 <sub>63</sub>	20.23 <sub>196</sub>	40.652 <sub>55</sub>	49.47 <sub>171</sub>	42.937 <sub>88</sub>	81.46 <sub>202</sub>
31.1	53.039 <sub>25</sub>	74.86 <sub>211</sub>	14.973 <sub>32</sub>	18.27 <sub>204</sub>	40.597 <sub>27</sub>	47.76 <sub>174</sub>	42.849 <sub>43</sub>	79.44 <sub>232</sub>
Feb. 10.1	53.014 <sub>19</sub>	72.75 <sub>235</sub>	14.941 <sub>3</sub>	16.23 <sub>202</sub>	40.570 <sub>6</sub>	46.02 <sub>170</sub>	42.806 <sub>5</sub>	77.12 <sub>256</sub>
20.0	53.033 <sub>64</sub>	70.40 <sub>254</sub>	14.944 <sub>41</sub>	14.21 <sub>192</sub>	40.576 <sub>40</sub>	44.32 <sub>158</sub>	42.811 <sub>55</sub>	74.56 <sub>275</sub>
März 1.0	53.097 <sub>110</sub>	67.86 <sub>267</sub>	14.985 <sub>81</sub>	12.29 <sub>173</sub>	40.616 <sub>77</sub>	42.74 <sub>138</sub>	42.866 <sub>105</sub>	71.81 <sub>287</sub>
11.0	53.207 <sub>156</sub>	65.19 <sub>274</sub>	15.066 <sub>124</sub>	10.56 <sub>146</sub>	40.693 <sub>117</sub>	41.36 <sub>112</sub>	42.971 <sub>157</sub>	68.94 <sub>295</sub>
20.9	53.363 <sub>202</sub>	62.45 <sub>278</sub>	15.190 <sub>166</sub>	9.10 <sub>112</sub>	40.810 <sub>156</sub>	40.24 <sub>78</sub>	43.128 <sub>207</sub>	65.99 <sub>295</sub>
30.9	53.565 <sub>248</sub>	59.67 <sub>274</sub>	15.356 <sub>206</sub>	7.98 <sub>72</sub>	40.966 <sub>195</sub>	39.46 <sub>42</sub>	43.335 <sub>257</sub>	63.04 <sub>290</sub>
Apr. 9.9	53.813 <sub>290</sub>	56.93 <sub>266</sub>	15.562 <sub>244</sub>	7.26 <sub>29</sub>	41.161 <sub>230</sub>	39.04 <sub>2</sub>	43.592 <sub>304</sub>	60.14 <sub>280</sub>
19.9	54.103 <sub>328</sub>	54.27 <sub>252</sub>	15.806 <sub>277</sub>	6.97 <sub>16</sub>	41.391 <sub>263</sub>	39.02 <sub>40</sub>	43.896 <sub>346</sub>	57.34 <sub>262</sub>
29.8	54.431 <sub>361</sub>	51.75 <sub>232</sub>	16.083 <sub>303</sub>	7.13 <sub>62</sub>	41.654 <sub>288</sub>	39.42 <sub>81</sub>	44.242 <sub>382</sub>	54.72 <sub>240</sub>
Mai 9.8	54.792 <sub>387</sub>	49.43 <sub>207</sub>	16.386 <sub>322</sub>	7.75 <sub>105</sub>	41.942 <sub>308</sub>	40.23 <sub>120</sub>	44.624 <sub>411</sub>	52.32 <sub>212</sub>
19.8	55.179 <sub>404</sub>	47.36 <sub>178</sub>	16.708 <sub>334</sub>	8.80 <sub>147</sub>	42.250 <sub>321</sub>	41.43 <sub>156</sub>	45.035 <sub>431</sub>	50.20 <sub>178</sub>
29.8	55.583 <sub>412</sub>	45.58 <sub>143</sub>	17.042 <sub>336</sub>	10.27 <sub>183</sub>	42.571 <sub>323</sub>	42.99 <sub>187</sub>	45.466 <sub>441</sub>	48.42 <sub>141</sub>
Juni 8.7	55.995 <sub>409</sub>	44.15 <sub>105</sub>	17.378 <sub>330</sub>	12.10 <sub>214</sub>	42.894 <sub>319</sub>	44.86 <sub>213</sub>	45.907 <sub>440</sub>	47.01 <sub>100</sub>
18.7	56.404 <sub>397</sub>	43.10 <sub>65</sub>	17.708 <sub>314</sub>	14.24 <sub>240</sub>	43.213 <sub>306</sub>	46.99 <sub>233</sub>	46.347 <sub>427</sub>	46.01 <sub>57</sub>
28.7	56.801 <sub>372</sub>	42.45 <sub>22</sub>	18.022 <sub>291</sub>	16.64 <sub>260</sub>	43.519 <sub>283</sub>	49.32 <sub>247</sub>	46.774 <sub>403</sub>	45.44 <sub>12</sub>
Juli 8.6	57.173 <sub>338</sub>	42.23 <sub>19</sub>	18.313 <sub>260</sub>	19.24 <sub>271</sub>	43.802 <sub>256</sub>	51.79 <sub>255</sub>	47.177 <sub>368</sub>	45.32 <sub>32</sub>
18.6	57.511 <sub>295</sub>	42.42 <sub>61</sub>	18.573 <sub>223</sub>	21.95 <sub>278</sub>	44.058 <sub>220</sub>	54.34 <sub>257</sub>	47.545 <sub>322</sub>	45.64 <sub>76</sub>
28.6	57.806 <sub>244</sub>	43.03 <sub>99</sub>	18.796 <sub>181</sub>	24.73 <sub>278</sub>	44.278 <sub>181</sub>	56.91 <sub>253</sub>	47.867 <sub>268</sub>	46.40 <sub>117</sub>
Aug. 7.6	58.050 <sub>187</sub>	44.02 <sub>133</sub>	18.977 <sub>137</sub>	27.51 <sub>272</sub>	44.459 <sub>139</sub>	59.44 <sub>243</sub>	48.135 <sub>207</sub>	47.57 <sub>152</sub>
17.5	58.237 <sub>126</sub>	45.35 <sub>163</sub>	19.114 <sub>91</sub>	30.23 <sub>261</sub>	44.598 <sub>94</sub>	61.87 <sub>230</sub>	48.342 <sub>141</sub>	49.09 <sub>182</sub>
27.5	58.363 <sub>62</sub>	46.98 <sub>186</sub>	19.205 <sub>44</sub>	32.84 <sub>244</sub>	44.692 <sub>51</sub>	64.17 <sub>211</sub>	48.483 <sub>73</sub>	50.91 <sub>206</sub>
Sept. 6.5	58.425 <sub>1</sub>	48.84 <sub>200</sub>	19.249 <sub>1</sub>	35.28 <sub>223</sub>	44.743 <sub>9</sub>	66.28 <sub>190</sub>	48.556 <sub>5</sub>	52.97 <sub>220</sub>
16.5	58.426 <sub>58</sub>	50.84 <sub>208</sub>	19.250 <sub>40</sub>	37.51 <sub>198</sub>	44.752 <sub>31</sub>	68.18 <sub>165</sub>	48.561 <sub>59</sub>	55.17 <sub>226</sub>
26.4	58.368 <sub>111</sub>	52.92 <sub>206</sub>	19.210 <sub>75</sub>	39.49 <sub>171</sub>	44.721 <sub>64</sub>	69.83 <sub>138</sub>	48.502 <sub>119</sub>	57.43 <sub>223</sub>
Okt. 6.4	58.257 <sub>155</sub>	54.98 <sub>194</sub>	19.135 <sub>106</sub>	41.20 <sub>139</sub>	44.657 <sub>94</sub>	71.21 <sub>110</sub>	48.383 <sub>169</sub>	59.66 <sub>210</sub>
16.4	58.102 <sub>191</sub>	56.92 <sub>176</sub>	19.029 <sub>130</sub>	42.59 <sub>107</sub>	44.563 <sub>116</sub>	72.31 <sub>80</sub>	48.214 <sub>210</sub>	61.76 <sub>189</sub>
26.3	57.911 <sub>216</sub>	58.68 <sub>149</sub>	18.899 <sub>147</sub>	43.66 <sub>71</sub>	44.447 <sub>133</sub>	73.11 <sub>48</sub>	48.004 <sub>239</sub>	63.65 <sub>160</sub>
Nov. 5.3	57.695 <sub>231</sub>	60.17 <sub>116</sub>	18.752 <sub>157</sub>	44.37 <sub>35</sub>	44.314 <sub>143</sub>	73.59 <sub>17</sub>	47.765 <sub>258</sub>	65.25 <sub>123</sub>
15.3	57.464 <sub>235</sub>	61.33 <sub>78</sub>	18.595 <sub>163</sub>	44.72 <sub>3</sub>	44.171 <sub>147</sub>	73.76 <sub>16</sub>	47.507 <sub>265</sub>	66.48 <sub>82</sub>
25.3	57.229 <sub>228</sub>	62.11 <sub>38</sub>	18.432 <sub>162</sub>	44.69 <sub>40</sub>	44.024 <sub>147</sub>	73.60 <sub>47</sub>	47.242 <sub>259</sub>	67.30 <sub>37</sub>
Dez. 5.2	57.001 <sub>213</sub>	62.49 <sub>5</sub>	18.270 <sub>155</sub>	44.29 <sub>77</sub>	43.877 <sub>140</sub>	73.13 <sub>78</sub>	46.983 <sub>245</sub>	67.67 <sub>9</sub>
15.2	56.788 <sub>191</sub>	62.44 <sub>48</sub>	18.115 <sub>144</sub>	43.52 <sub>112</sub>	43.737 <sub>129</sub>	72.35 <sub>106</sub>	46.738 <sub>223</sub>	67.58 <sub>55</sub>
25.2	56.597 <sub>162</sub>	61.96 <sub>88</sub>	17.971 <sub>129</sub>	42.40 <sub>143</sub>	43.608 <sub>115</sub>	71.29 <sub>131</sub>	46.515 <sub>192</sub>	67.03 <sub>100</sub>
35.2	56.435	61.08	17.842	40.97	43.493	69.98	46.323	66.03
Mittl. Ort sec δ, tg δ	53.741 1.475	72.85 -1.084	14.990 1.152	8.53 +0.573	40.554 1.087	39.33 +0.427	43.735 1.615	76.80 -1.268

Mittlere Zeit Greenw.	863) $\epsilon$ Cephei		864) $\lambda$ Aquarii		865) $\rho$ Indi		866) $\delta$ Aquarii	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	22 <sup>h</sup> 46 <sup>m</sup>	+65° 46'	22 <sup>h</sup> 48 <sup>m</sup>	-7° 59'	22 <sup>h</sup> 49 <sup>m</sup>	-70° 29'	22 <sup>h</sup> 50 <sup>m</sup>	-16° 14'
Jan. I.2	49.61 <sup>39</sup>	69.05 <sup>167</sup>	26.725 <sup>81</sup>	77.04 <sup>48</sup>	5.02 <sup>40</sup>	75.73 <sup>194</sup>	24.533 <sup>86</sup>	46.95 <sup>19</sup>
II.I	49.22 <sup>33</sup>	67.38 <sup>217</sup>	26.644 <sup>61</sup>	77.52 <sup>38</sup>	4.62 <sup>33</sup>	73.79 <sup>239</sup>	24.447 <sup>65</sup>	47.14 <sup>17</sup>
2I.I	48.89 <sup>26</sup>	65.21 <sup>256</sup>	26.583 <sup>39</sup>	77.90 <sup>26</sup>	4.29 <sup>25</sup>	71.40 <sup>278</sup>	24.382 <sup>42</sup>	47.15 <sup>17</sup>
3I.I	48.63 <sup>19</sup>	62.65 <sup>286</sup>	26.544 <sup>15</sup>	78.16 <sup>11</sup>	4.04 <sup>15</sup>	68.62 <sup>309</sup>	24.340 <sup>17</sup>	46.98 <sup>37</sup>
Feb. IO.I	48.44 <sup>11</sup>	59.79 <sup>304</sup>	26.529 <sup>13</sup>	78.27 <sup>7</sup>	3.89 <sup>6</sup>	65.53 <sup>332</sup>	24.323 <sup>12</sup>	46.61 <sup>56</sup>
20.0	48.33 <sup>1</sup>	56.75 <sup>311</sup>	26.542 <sup>43</sup>	78.20 <sup>26</sup>	3.83 <sup>3</sup>	62.21 <sup>347</sup>	24.335 <sup>42</sup>	46.05 <sup>77</sup>
März I.0	48.32 <sup>9</sup>	53.64 <sup>304</sup>	26.585 <sup>75</sup>	77.94 <sup>47</sup>	3.86 <sup>14</sup>	58.74 <sup>355</sup>	24.377 <sup>74</sup>	45.28 <sup>98</sup>
II.0	48.41 <sup>18</sup>	50.60 <sup>285</sup>	26.660 <sup>109</sup>	77.47 <sup>70</sup>	4.00 <sup>23</sup>	55.19 <sup>353</sup>	24.451 <sup>109</sup>	44.30 <sup>119</sup>
2I.0	48.59 <sup>27</sup>	47.75 <sup>254</sup>	26.769 <sup>144</sup>	76.77 <sup>94</sup>	4.23 <sup>33</sup>	51.66 <sup>346</sup>	24.560 <sup>145</sup>	43.11 <sup>139</sup>
30.9	48.86 <sup>37</sup>	45.21 <sup>215</sup>	26.913 <sup>178</sup>	75.83 <sup>116</sup>	4.56 <sup>41</sup>	48.20 <sup>330</sup>	24.705 <sup>180</sup>	41.72 <sup>157</sup>
Apr. 9.9	49.23 <sup>44</sup>	43.06 <sup>166</sup>	27.091 <sup>212</sup>	74.67 <sup>138</sup>	4.97 <sup>49</sup>	44.90 <sup>308</sup>	24.885 <sup>213</sup>	40.15 <sup>173</sup>
19.9	49.67 <sup>50</sup>	41.40 <sup>114</sup>	27.303 <sup>242</sup>	73.29 <sup>157</sup>	5.46 <sup>57</sup>	41.82 <sup>279</sup>	25.098 <sup>246</sup>	38.42 <sup>186</sup>
29.8	50.17 <sup>56</sup>	40.26 <sup>55</sup>	27.545 <sup>268</sup>	71.72 <sup>174</sup>	6.03 <sup>63</sup>	39.03 <sup>241</sup>	25.344 <sup>272</sup>	36.56 <sup>194</sup>
Mai 9.8	50.73 <sup>58</sup>	39.71 <sup>4</sup>	27.813 <sup>288</sup>	69.98 <sup>185</sup>	6.66 <sup>68</sup>	36.59 <sup>203</sup>	25.616 <sup>294</sup>	34.62 <sup>198</sup>
19.8	51.31 <sup>61</sup>	39.75 <sup>62</sup>	28.101 <sup>303</sup>	68.13 <sup>192</sup>	7.34 <sup>72</sup>	34.56 <sup>160</sup>	25.910 <sup>308</sup>	32.64 <sup>196</sup>
29.8	51.92 <sup>60</sup>	40.37 <sup>119</sup>	28.404 <sup>310</sup>	66.21 <sup>194</sup>	8.06 <sup>73</sup>	32.96 <sup>110</sup>	26.218 <sup>317</sup>	30.68 <sup>191</sup>
Juni 8.7	52.52 <sup>58</sup>	41.56 <sup>172</sup>	28.714 <sup>308</sup>	64.27 <sup>190</sup>	8.79 <sup>73</sup>	31.86 <sup>60</sup>	26.535 <sup>315</sup>	28.77 <sup>180</sup>
18.7	53.10 <sup>55</sup>	43.28 <sup>220</sup>	29.022 <sup>298</sup>	62.37 <sup>183</sup>	9.52 <sup>72</sup>	31.26 <sup>7</sup>	26.850 <sup>307</sup>	26.97 <sup>164</sup>
28.7	53.65 <sup>50</sup>	45.48 <sup>262</sup>	29.320 <sup>281</sup>	60.54 <sup>169</sup>	10.24 <sup>67</sup>	31.19 <sup>45</sup>	27.157 <sup>290</sup>	25.33 <sup>143</sup>
Juli 8.7	54.15 <sup>44</sup>	48.10 <sup>297</sup>	29.601 <sup>257</sup>	58.85 <sup>152</sup>	10.91 <sup>62</sup>	31.64 <sup>95</sup>	27.447 <sup>265</sup>	23.90 <sup>120</sup>
18.6	54.59 <sup>37</sup>	51.07 <sup>326</sup>	29.858 <sup>225</sup>	57.33 <sup>132</sup>	11.53 <sup>54</sup>	32.59 <sup>144</sup>	27.712 <sup>233</sup>	22.70 <sup>94</sup>
28.6	54.96 <sup>29</sup>	54.33 <sup>347</sup>	30.083 <sup>189</sup>	56.01 <sup>108</sup>	12.07 <sup>45</sup>	34.03 <sup>186</sup>	27.945 <sup>197</sup>	21.76 <sup>66</sup>
Aug. 7.6	55.25 <sup>21</sup>	57.80 <sup>360</sup>	30.272 <sup>148</sup>	54.93 <sup>84</sup>	12.52 <sup>34</sup>	35.89 <sup>223</sup>	28.142 <sup>155</sup>	21.10 <sup>38</sup>
17.5	55.46 <sup>13</sup>	61.40 <sup>366</sup>	30.420 <sup>106</sup>	54.09 <sup>58</sup>	12.86 <sup>23</sup>	38.12 <sup>252</sup>	28.297 <sup>111</sup>	20.72 <sup>10</sup>
27.5	55.59 <sup>4</sup>	65.06 <sup>364</sup>	30.526 <sup>64</sup>	53.51 <sup>34</sup>	13.09 <sup>11</sup>	40.64 <sup>272</sup>	28.408 <sup>67</sup>	20.62 <sup>16</sup>
Sept. 6.5	55.63 <sup>5</sup>	68.70 <sup>354</sup>	30.590 <sup>21</sup>	53.17 <sup>11</sup>	13.20 <sup>2</sup>	43.36 <sup>282</sup>	28.475 <sup>24</sup>	20.78 <sup>38</sup>
16.5	55.58 <sup>12</sup>	72.24 <sup>336</sup>	30.611 <sup>16</sup>	53.06 <sup>11</sup>	13.18 <sup>14</sup>	46.18 <sup>282</sup>	28.499 <sup>17</sup>	21.16 <sup>58</sup>
26.4	55.46 <sup>20</sup>	75.60 <sup>313</sup>	30.595 <sup>51</sup>	53.17 <sup>29</sup>	13.04 <sup>25</sup>	49.00 <sup>269</sup>	28.482 <sup>52</sup>	21.74 <sup>74</sup>
Okt. 6.4	55.26 <sup>27</sup>	78.73 <sup>281</sup>	30.544 <sup>80</sup>	53.46 <sup>45</sup>	12.79 <sup>35</sup>	51.69 <sup>247</sup>	28.430 <sup>83</sup>	22.48 <sup>84</sup>
16.4	54.99 <sup>32</sup>	81.54 <sup>244</sup>	30.464 <sup>102</sup>	53.91 <sup>56</sup>	12.44 <sup>43</sup>	54.16 <sup>213</sup>	28.347 <sup>106</sup>	23.32 <sup>90</sup>
26.4	54.67 <sup>37</sup>	83.98 <sup>200</sup>	30.362 <sup>118</sup>	54.47 <sup>64</sup>	12.01 <sup>50</sup>	56.29 <sup>172</sup>	28.241 <sup>124</sup>	24.22 <sup>91</sup>
Nov. 5.3	54.30 <sup>41</sup>	85.98 <sup>150</sup>	30.244 <sup>127</sup>	55.11 <sup>69</sup>	11.51 <sup>55</sup>	58.01 <sup>123</sup>	28.117 <sup>133</sup>	25.13 <sup>88</sup>
15.3	53.89 <sup>44</sup>	87.48 <sup>96</sup>	30.117 <sup>130</sup>	55.80 <sup>71</sup>	10.96 <sup>57</sup>	59.24 <sup>68</sup>	27.984 <sup>137</sup>	26.01 <sup>82</sup>
25.3	53.45 <sup>45</sup>	88.44 <sup>39</sup>	29.987 <sup>127</sup>	56.51 <sup>70</sup>	10.39 <sup>56</sup>	59.92 <sup>10</sup>	27.847 <sup>134</sup>	26.83 <sup>72</sup>
Dez. 5.2	53.00 <sup>45</sup>	88.83 <sup>21</sup>	29.860 <sup>120</sup>	57.21 <sup>68</sup>	9.83 <sup>55</sup>	60.02 <sup>49</sup>	27.713 <sup>127</sup>	27.55 <sup>60</sup>
15.2	52.55 <sup>44</sup>	88.62 <sup>80</sup>	29.740 <sup>109</sup>	57.89 <sup>63</sup>	9.28 <sup>50</sup>	59.53 <sup>106</sup>	27.586 <sup>115</sup>	28.15 <sup>46</sup>
25.2	52.11 <sup>40</sup>	87.82 <sup>137</sup>	29.631 <sup>93</sup>	58.52 <sup>56</sup>	8.78 <sup>45</sup>	58.47 <sup>160</sup>	27.471 <sup>99</sup>	28.61 <sup>31</sup>
35.2	51.71	86.45	29.538	59.08	8.33	56.87	27.372	28.92
Mittl. Ort sec $\delta$ , tg $\delta$	49.66 2.438	45.78 +2.223	26.514 1.010	80.40 -0.141	6.77 2.996	65.37 -2.824	24.373 1.042	47.75 -0.291

Mittlere Zeit Greenw.	867) $\alpha$ Pisc. austr.		869) $\circ$ Andromedae		870) $\beta$ Pegasi		871) $\alpha$ Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	22 <sup>h</sup> 53 <sup>m</sup>	-30° 2'	22 <sup>h</sup> 58 <sup>m</sup>	+41° 53'	22 <sup>h</sup> 59 <sup>m</sup>	+27° 38'	23 <sup>h</sup> 0 <sup>m</sup>	+14° 46'
Jan. 1.2	13.998 <sup>104</sup>	50.68 <sup>33</sup>	14.579 <sup>164</sup>	62.82 <sup>158</sup>	54.016 <sup>118</sup>	69.19 <sup>140</sup>	46.845 <sup>97</sup>	38.66 <sup>114</sup>
11.1	13.894 <sup>80</sup>	50.35 <sup>63</sup>	14.415 <sup>141</sup>	61.24 <sup>191</sup>	53.898 <sup>100</sup>	67.79 <sup>161</sup>	46.748 <sup>81</sup>	37.52 <sup>125</sup>
21.1	13.814 <sup>53</sup>	49.72 <sup>89</sup>	14.274 <sup>111</sup>	59.33 <sup>218</sup>	53.798 <sup>76</sup>	66.18 <sup>178</sup>	46.667 <sup>60</sup>	36.27 <sup>130</sup>
31.1	13.761 <sup>25</sup>	48.83 <sup>114</sup>	14.163 <sup>76</sup>	57.15 <sup>236</sup>	53.722 <sup>49</sup>	64.40 <sup>186</sup>	46.607 <sup>35</sup>	34.97 <sup>130</sup>
Feb. 10.1	13.736 <sup>7</sup>	47.69 <sup>138</sup>	14.087 <sup>35</sup>	54.79 <sup>244</sup>	53.673 <sup>16</sup>	62.54 <sup>186</sup>	46.572 <sup>7</sup>	33.67 <sup>123</sup>
20.0	13.743 <sup>40</sup>	46.31 <sup>160</sup>	14.052 <sup>10</sup>	52.35 <sup>242</sup>	53.657 <sup>19</sup>	60.68 <sup>178</sup>	46.565 <sup>25</sup>	32.44 <sup>110</sup>
März 1.0	13.783 <sup>76</sup>	44.71 <sup>180</sup>	14.062 <sup>60</sup>	49.93 <sup>229</sup>	53.676 <sup>59</sup>	58.90 <sup>162</sup>	46.590 <sup>59</sup>	31.34 <sup>91</sup>
11.0	13.859 <sup>114</sup>	42.91 <sup>196</sup>	14.122 <sup>110</sup>	47.64 <sup>207</sup>	53.735 <sup>101</sup>	57.28 <sup>137</sup>	46.649 <sup>96</sup>	30.43 <sup>66</sup>
21.0	13.973 <sup>153</sup>	40.95 <sup>210</sup>	14.232 <sup>162</sup>	45.57 <sup>175</sup>	53.836 <sup>143</sup>	55.91 <sup>106</sup>	46.745 <sup>134</sup>	29.77 <sup>36</sup>
30.9	14.126 <sup>190</sup>	38.85 <sup>219</sup>	14.394 <sup>212</sup>	43.82 <sup>136</sup>	53.979 <sup>184</sup>	54.85 <sup>70</sup>	46.879 <sup>172</sup>	29.41 <sup>4</sup>
Apr. 9.9	14.316 <sup>227</sup>	36.66 <sup>226</sup>	14.606 <sup>258</sup>	42.46 <sup>92</sup>	54.163 <sup>224</sup>	54.15 <sup>29</sup>	47.051 <sup>207</sup>	29.37 <sup>31</sup>
19.9	14.543 <sup>262</sup>	34.40 <sup>227</sup>	14.864 <sup>299</sup>	41.54 <sup>43</sup>	54.387 <sup>260</sup>	53.86 <sup>14</sup>	47.258 <sup>241</sup>	29.68 <sup>66</sup>
29.8	14.805 <sup>291</sup>	32.13 <sup>223</sup>	15.163 <sup>332</sup>	41.11 <sup>7</sup>	54.647 <sup>289</sup>	54.00 <sup>56</sup>	47.499 <sup>270</sup>	30.34 <sup>101</sup>
Mai 9.8	15.096 <sup>315</sup>	29.90 <sup>215</sup>	15.495 <sup>358</sup>	41.18 <sup>57</sup>	54.936 <sup>313</sup>	54.56 <sup>98</sup>	47.769 <sup>291</sup>	31.35 <sup>133</sup>
19.8	15.411 <sup>332</sup>	27.75 <sup>200</sup>	15.853 <sup>372</sup>	41.75 <sup>107</sup>	55.249 <sup>327</sup>	55.54 <sup>138</sup>	48.060 <sup>306</sup>	32.68 <sup>162</sup>
29.8	15.743 <sup>341</sup>	25.75 <sup>181</sup>	16.225 <sup>378</sup>	42.82 <sup>152</sup>	55.576 <sup>333</sup>	56.92 <sup>172</sup>	48.366 <sup>314</sup>	34.30 <sup>186</sup>
Juni 8.7	16.084 <sup>342</sup>	23.94 <sup>157</sup>	16.603 <sup>373</sup>	44.34 <sup>193</sup>	55.909 <sup>332</sup>	58.64 <sup>203</sup>	48.680 <sup>313</sup>	36.16 <sup>205</sup>
18.7	16.426 <sup>333</sup>	22.37 <sup>129</sup>	16.976 <sup>359</sup>	46.27 <sup>229</sup>	56.241 <sup>320</sup>	60.67 <sup>229</sup>	48.993 <sup>303</sup>	38.21 <sup>219</sup>
28.7	16.759 <sup>316</sup>	21.08 <sup>98</sup>	17.335 <sup>333</sup>	48.56 <sup>259</sup>	56.561 <sup>300</sup>	62.96 <sup>247</sup>	49.296 <sup>286</sup>	40.40 <sup>226</sup>
Juli 8.7	17.075 <sup>291</sup>	20.10 <sup>65</sup>	17.668 <sup>302</sup>	51.15 <sup>283</sup>	56.861 <sup>273</sup>	65.43 <sup>259</sup>	49.582 <sup>262</sup>	42.66 <sup>229</sup>
18.6	17.366 <sup>256</sup>	19.45 <sup>29</sup>	17.970 <sup>262</sup>	53.98 <sup>298</sup>	57.134 <sup>240</sup>	68.02 <sup>266</sup>	49.844 <sup>231</sup>	44.95 <sup>225</sup>
28.6	17.622 <sup>217</sup>	19.16 <sup>5</sup>	18.232 <sup>217</sup>	56.96 <sup>308</sup>	57.374 <sup>201</sup>	70.68 <sup>267</sup>	50.075 <sup>195</sup>	47.20 <sup>217</sup>
Aug. 7.6	17.839 <sup>172</sup>	19.21 <sup>38</sup>	18.449 <sup>168</sup>	60.04 <sup>311</sup>	57.575 <sup>159</sup>	73.35 <sup>261</sup>	50.270 <sup>155</sup>	49.37 <sup>204</sup>
17.5	18.011 <sup>124</sup>	19.59 <sup>69</sup>	18.617 <sup>118</sup>	63.15 <sup>307</sup>	57.734 <sup>114</sup>	75.96 <sup>251</sup>	50.425 <sup>114</sup>	51.41 <sup>187</sup>
27.5	18.135 <sup>76</sup>	20.28 <sup>96</sup>	18.735 <sup>66</sup>	66.22 <sup>297</sup>	57.848 <sup>70</sup>	78.47 <sup>235</sup>	50.539 <sup>71</sup>	53.28 <sup>167</sup>
Sept. 6.5	18.211 <sup>26</sup>	21.24 <sup>117</sup>	18.801 <sup>18</sup>	69.19 <sup>282</sup>	57.918 <sup>26</sup>	80.82 <sup>215</sup>	50.610 <sup>31</sup>	54.95 <sup>146</sup>
16.5	18.237 <sup>19</sup>	22.41 <sup>134</sup>	18.819 <sup>30</sup>	72.01 <sup>260</sup>	57.944 <sup>13</sup>	82.97 <sup>193</sup>	50.641 <sup>7</sup>	56.41 <sup>122</sup>
26.4	18.218 <sup>60</sup>	23.75 <sup>142</sup>	18.789 <sup>71</sup>	74.61 <sup>234</sup>	57.931 <sup>50</sup>	84.90 <sup>167</sup>	50.634 <sup>41</sup>	57.63 <sup>97</sup>
Okt. 6.4	18.158 <sup>96</sup>	25.17 <sup>146</sup>	18.718 <sup>109</sup>	76.95 <sup>204</sup>	57.881 <sup>82</sup>	86.57 <sup>138</sup>	50.593 <sup>70</sup>	58.60 <sup>72</sup>
16.4	18.062 <sup>123</sup>	26.63 <sup>141</sup>	18.609 <sup>139</sup>	78.99 <sup>168</sup>	57.799 <sup>107</sup>	87.95 <sup>107</sup>	50.523 <sup>94</sup>	59.32 <sup>47</sup>
26.4	17.939 <sup>144</sup>	28.04 <sup>131</sup>	18.470 <sup>164</sup>	80.67 <sup>130</sup>	57.692 <sup>127</sup>	89.02 <sup>74</sup>	50.429 <sup>112</sup>	59.79 <sup>21</sup>
Nov. 5.3	17.795 <sup>156</sup>	29.35 <sup>114</sup>	18.306 <sup>182</sup>	81.97 <sup>88</sup>	57.565 <sup>140</sup>	89.76 <sup>41</sup>	50.317 <sup>123</sup>	60.00 <sup>3</sup>
15.3	17.639 <sup>160</sup>	30.49 <sup>94</sup>	18.124 <sup>195</sup>	82.85 <sup>44</sup>	57.425 <sup>149</sup>	90.17 <sup>6</sup>	50.194 <sup>130</sup>	59.97 <sup>27</sup>
25.3	17.479 <sup>159</sup>	31.43 <sup>70</sup>	17.929 <sup>199</sup>	83.29 <sup>2</sup>	57.276 <sup>152</sup>	90.23 <sup>29</sup>	50.064 <sup>131</sup>	59.70 <sup>50</sup>
Dez. 5.2	17.320 <sup>150</sup>	32.13 <sup>43</sup>	17.730 <sup>199</sup>	83.27 <sup>48</sup>	57.124 <sup>149</sup>	89.94 <sup>63</sup>	49.933 <sup>128</sup>	59.20 <sup>72</sup>
15.2	17.170 <sup>136</sup>	32.56 <sup>15</sup>	17.531 <sup>192</sup>	82.79 <sup>94</sup>	56.975 <sup>143</sup>	89.31 <sup>96</sup>	49.805 <sup>120</sup>	58.48 <sup>91</sup>
25.2	17.034 <sup>118</sup>	32.71 <sup>15</sup>	17.339 <sup>179</sup>	81.85 <sup>135</sup>	56.832 <sup>130</sup>	88.35 <sup>125</sup>	49.685 <sup>109</sup>	57.57 <sup>108</sup>
35.2	16.916	32.56	17.160	80.50	56.702	87.10	49.576	56.49
Mittl. Ort	13.973	47.48	14.204	44.35	53.617	54.71	46.465	28.20
sec $\delta$ , tg $\delta$	1.155	-0.578	1.343	+0.897	1.129	+0.524	1.034	+0.264

Mittlere Zeit Greenw.	872) $\theta$ Gruis		873) $\epsilon^2$ Aquarii		874) $\pi$ Cephei		875) Br. 3077	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	$23^h 2^m$	$-43^\circ 56'$	$23^h 5^m$	$-21^\circ 35'$	$23^h 5^m$	$+74^\circ 57'$	$23^h 9^m$	$+56^\circ 43'$
Jan. I.2	22.455 <sub>151</sub>	77.45 <sub>83</sub>	II.170 <sub>99</sub>	86.16 <sub>2</sub>	20.91 <sub>69</sub>	42.31 <sub>133</sub>	25.890 <sub>264</sub>	57.03 <sub>146</sub>
II.2	22.304 <sub>122</sub>	76.62 <sub>121</sub>	II.071 <sub>80</sub>	86.18 <sub>19</sub>	20.22 <sub>62</sub>	40.98 <sub>188</sub>	25.626 <sub>234</sub>	55.57 <sub>192</sub>
21.I	22.182 <sub>90</sub>	75.41 <sub>155</sub>	10.991 <sub>58</sub>	85.99 <sub>43</sub>	19.60 <sub>52</sub>	39.10 <sub>236</sub>	25.392 <sub>195</sub>	53.65 <sub>230</sub>
31.I	22.092 <sub>54</sub>	73.86 <sub>187</sub>	10.933 <sub>33</sub>	85.56 <sub>65</sub>	19.08 <sub>41</sub>	36.74 <sub>273</sub>	25.197 <sub>145</sub>	51.35 <sub>260</sub>
Feb. 10.I	22.038 <sub>16</sub>	71.99 <sub>214</sub>	10.900 <sub>5</sub>	84.91 <sub>88</sub>	18.67 <sub>27</sub>	34.01 <sub>301</sub>	25.052 <sub>88</sub>	48.75 <sub>278</sub>
20.0	22.022 <sub>25</sub>	69.85 <sub>236</sub>	10.895 <sub>26</sub>	84.03 <sub>111</sub>	18.40 <sub>12</sub>	31.00 <sub>316</sub>	24.964 <sub>23</sub>	45.97 <sub>285</sub>
März I.0	22.047 <sub>69</sub>	67.49 <sub>254</sub>	10.921 <sub>60</sub>	82.92 <sub>131</sub>	18.28 <sub>4</sub>	27.84 <sub>317</sub>	24.941 <sub>46</sub>	43.12 <sub>281</sub>
II.0	22.116 <sub>113</sub>	64.95 <sub>267</sub>	10.981 <sub>95</sub>	81.61 <sub>152</sub>	18.32 <sub>19</sub>	24.67 <sub>307</sub>	24.987 <sub>119</sub>	40.31 <sub>264</sub>
21.0	22.229 <sub>159</sub>	62.28 <sub>275</sub>	11.076 <sub>132</sub>	80.09 <sub>171</sub>	18.51 <sub>34</sub>	21.60 <sub>284</sub>	25.106 <sub>191</sub>	37.67 <sub>237</sub>
30.9	22.388 <sub>203</sub>	59.53 <sub>277</sub>	11.208 <sub>169</sub>	78.38 <sub>186</sub>	18.85 <sub>49</sub>	18.76 <sub>249</sub>	25.297 <sub>259</sub>	35.30 <sub>201</sub>
Apr. 9.9	22.591 <sub>248</sub>	56.76 <sub>274</sub>	11.377 <sub>205</sub>	76.52 <sub>198</sub>	19.34 <sub>62</sub>	16.27 <sub>207</sub>	25.556 <sub>324</sub>	33.29 <sub>157</sub>
19.9	22.839 <sub>288</sub>	54.02 <sub>266</sub>	11.582 <sub>239</sub>	74.54 <sub>208</sub>	19.96 <sub>72</sub>	14.20 <sub>156</sub>	25.880 <sub>379</sub>	31.72 <sub>106</sub>
29.9	23.127 <sub>324</sub>	51.36 <sub>250</sub>	11.821 <sub>269</sub>	72.46 <sub>212</sub>	20.68 <sub>81</sub>	12.64 <sub>102</sub>	26.259 <sub>424</sub>	30.66 <sub>52</sub>
Mai 9.8	23.451 <sub>354</sub>	48.86 <sub>229</sub>	12.090 <sub>294</sub>	70.34 <sub>212</sub>	21.49 <sub>87</sub>	11.62 <sub>42</sub>	26.683 <sub>458</sub>	30.14 <sub>3</sub>
19.8	23.805 <sub>375</sub>	46.57 <sub>204</sub>	12.384 <sub>312</sub>	68.22 <sub>206</sub>	22.36 <sub>90</sub>	11.20 <sub>17</sub>	27.141 <sub>479</sub>	30.17 <sub>58</sub>
29.8	24.180 <sub>388</sub>	44.53 <sub>172</sub>	12.696 <sub>322</sub>	66.16 <sub>194</sub>	23.26 <sub>90</sub>	11.37 <sub>75</sub>	27.620 <sub>487</sub>	30.75 <sub>112</sub>
Juni 8.7	24.568 <sub>391</sub>	42.81 <sub>138</sub>	13.018 <sub>324</sub>	64.22 <sub>179</sub>	24.16 <sub>89</sub>	12.12 <sub>131</sub>	28.107 <sub>481</sub>	31.87 <sub>163</sub>
18.7	24.959 <sub>384</sub>	41.43 <sub>98</sub>	13.342 <sub>318</sub>	62.43 <sub>159</sub>	25.05 <sub>84</sub>	13.43 <sub>184</sub>	28.588 <sub>463</sub>	33.50 <sub>208</sub>
28.7	25.343 <sub>366</sub>	40.45 <sub>58</sub>	13.660 <sub>303</sub>	60.84 <sub>133</sub>	25.89 <sub>77</sub>	15.27 <sub>232</sub>	29.051 <sub>432</sub>	35.58 <sub>248</sub>
Juli 8.7	25.709 <sub>340</sub>	39.87 <sub>15</sub>	13.963 <sub>281</sub>	59.51 <sub>106</sub>	26.66 <sub>70</sub>	17.59 <sub>273</sub>	29.483 <sub>392</sub>	38.06 <sub>283</sub>
18.6	26.049 <sub>302</sub>	39.72 <sub>28</sub>	14.244 <sub>250</sub>	58.45 <sub>75</sub>	27.36 <sub>59</sub>	20.32 <sub>307</sub>	29.875 <sub>342</sub>	40.89 <sub>309</sub>
28.6	26.351 <sub>257</sub>	40.00 <sub>68</sub>	14.494 <sub>214</sub>	57.70 <sub>44</sub>	27.95 <sub>48</sub>	23.39 <sub>336</sub>	30.217 <sub>286</sub>	43.98 <sub>329</sub>
Aug. 7.6	26.608 <sub>207</sub>	40.68 <sub>106</sub>	14.708 <sub>173</sub>	57.26 <sub>12</sub>	28.43 <sub>36</sub>	26.75 <sub>357</sub>	30.503 <sub>225</sub>	47.27 <sub>342</sub>
17.6	26.815 <sub>151</sub>	41.74 <sub>139</sub>	14.881 <sub>129</sub>	57.14 <sub>18</sub>	28.79 <sub>23</sub>	30.32 <sub>369</sub>	30.728 <sub>161</sub>	50.69 <sub>347</sub>
27.5	26.966 <sub>92</sub>	43.13 <sub>168</sub>	15.010 <sub>84</sub>	57.32 <sub>46</sub>	29.02 <sub>10</sub>	34.01 <sub>375</sub>	30.889 <sub>96</sub>	54.16 <sub>345</sub>
Sept. 6.5	27.058 <sub>34</sub>	44.81 <sub>187</sub>	15.094 <sub>39</sub>	57.78 <sub>69</sub>	29.12 <sub>2</sub>	37.76 <sub>372</sub>	30.985 <sub>31</sub>	57.61 <sub>337</sub>
16.5	27.092 <sub>21</sub>	46.68 <sub>201</sub>	15.133 <sub>3</sub>	58.47 <sub>90</sub>	29.10 <sub>15</sub>	41.48 <sub>362</sub>	31.016 <sub>29</sub>	60.98 <sub>320</sub>
26.4	27.071 <sub>73</sub>	48.69 <sub>205</sub>	15.130 <sub>42</sub>	59.37 <sub>104</sub>	28.95 <sub>28</sub>	45.10 <sub>343</sub>	30.987 <sub>87</sub>	64.18 <sub>299</sub>
Okt. 6.4	26.998 <sub>118</sub>	50.74 <sub>200</sub>	15.088 <sub>74</sub>	60.41 <sub>113</sub>	28.67 <sub>38</sub>	48.53 <sub>318</sub>	30.900 <sub>139</sub>	67.17 <sub>269</sub>
16.4	26.880 <sub>155</sub>	52.74 <sub>187</sub>	15.014 <sub>101</sub>	61.54 <sub>116</sub>	28.29 <sub>48</sub>	51.71 <sub>285</sub>	30.761 <sub>185</sub>	69.86 <sub>235</sub>
26.4	26.725 <sub>183</sub>	54.61 <sub>166</sub>	14.913 <sub>121</sub>	62.70 <sub>114</sub>	27.81 <sub>57</sub>	54.56 <sub>245</sub>	30.576 <sub>223</sub>	72.21 <sub>195</sub>
Nov. 5.3	26.542 <sub>201</sub>	56.27 <sub>139</sub>	14.792 <sub>134</sub>	63.84 <sub>106</sub>	27.24 <sub>65</sub>	57.01 <sub>197</sub>	30.353 <sub>254</sub>	74.16 <sub>148</sub>
15.3	26.341 <sub>211</sub>	57.66 <sub>104</sub>	14.658 <sub>140</sub>	64.90 <sub>94</sub>	26.59 <sub>70</sub>	58.98 <sub>144</sub>	30.099 <sub>277</sub>	75.64 <sub>99</sub>
25.3	26.130 <sub>211</sub>	58.70 <sub>67</sub>	14.518 <sub>141</sub>	65.84 <sub>79</sub>	25.89 <sub>74</sub>	60.42 <sub>86</sub>	29.822 <sub>292</sub>	76.63 <sub>47</sub>
Dez. 5.3	25.919 <sub>203</sub>	59.37 <sub>27</sub>	14.377 <sub>135</sub>	66.63 <sub>61</sub>	25.15 <sub>77</sub>	61.28 <sub>26</sub>	29.530 <sub>298</sub>	77.10 <sub>9</sub>
15.2	25.716 <sub>188</sub>	59.64 <sub>15</sub>	14.242 <sub>126</sub>	67.24 <sub>40</sub>	24.38 <sub>75</sub>	61.54 <sub>37</sub>	29.232 <sub>294</sub>	77.01 <sub>64</sub>
25.2	25.528 <sub>168</sub>	59.49 <sub>56</sub>	14.116 <sub>111</sub>	67.64 <sub>19</sub>	23.63 <sub>73</sub>	61.17 <sub>99</sub>	28.938 <sub>281</sub>	76.37 <sub>117</sub>
35.2	25.360	58.93	14.005	67.83	22.90	60.18	28.657	75.20
Mittl. Ort	22.628	70.48	10.987	84.90	20.93	17.52	25.456	35.06
sec $\delta$ , tg $\delta$	1.389	-0.964	1.076	-0.396	3.852	+3.720	1.823	+1.524



# 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.
1920	23 <sup>h</sup> 12 <sup>m</sup>	-58° 39'	23 <sup>h</sup> 14 <sup>m</sup>	-32° 57'	23 <sup>h</sup> 16 <sup>m</sup>	+23° 18'
Jan. 1.2	45.504 <sup>257</sup>	98.59 <sup>128</sup>	30.539 <sup>125</sup>	69.92 <sup>33</sup>	41.008 <sup>117</sup>	20.80 <sup>123</sup>
11.2	45.247 <sup>216</sup>	97.31 <sup>174</sup>	30.414 <sup>104</sup>	69.59 <sup>65</sup>	40.891 <sup>102</sup>	19.57 <sup>142</sup>
21.1	45.031 <sup>171</sup>	95.57 <sup>216</sup>	30.310 <sup>80</sup>	68.94 <sup>96</sup>	40.789 <sup>83</sup>	18.15 <sup>154</sup>
31.1	44.860 <sup>121</sup>	93.41 <sup>251</sup>	30.230 <sup>52</sup>	67.98 <sup>126</sup>	40.706 <sup>58</sup>	16.61 <sup>162</sup>
Feb. 10.1	44.739 <sup>64</sup>	90.90 <sup>280</sup>	30.178 <sup>21</sup>	66.72 <sup>151</sup>	40.648 <sup>29</sup>	14.99 <sup>162</sup>
20.0	44.675	88.10	30.157	65.21	40.619	13.37
März 1.0	44.668 <sup>7</sup>	85.07 <sup>303</sup>	30.170 <sup>13</sup>	63.45 <sup>176</sup>	40.623 <sup>4</sup>	11.84 <sup>153</sup>
11.0	44.721 <sup>53</sup>	81.88 <sup>319</sup>	30.220 <sup>50</sup>	61.48 <sup>197</sup>	40.664 <sup>41</sup>	10.46 <sup>138</sup>
21.0	44.837 <sup>116</sup>	78.61 <sup>327</sup>	30.308 <sup>88</sup>	59.32 <sup>216</sup>	40.745 <sup>81</sup>	9.30 <sup>116</sup>
30.9	45.016 <sup>179</sup>	75.31 <sup>330</sup>	30.437 <sup>129</sup>	57.03 <sup>229</sup>	40.867 <sup>122</sup>	8.44 <sup>86</sup>
Apr. 9.9	45.257 <sup>241</sup>	72.06 <sup>325</sup>	30.607 <sup>170</sup>	54.63 <sup>240</sup>	41.031 <sup>164</sup>	7.90 <sup>54</sup>
19.9	45.556 <sup>299</sup>	68.93 <sup>313</sup>	30.816 <sup>209</sup>	52.17 <sup>246</sup>	41.234 <sup>203</sup>	7.74 <sup>16</sup>
29.9	45.911 <sup>355</sup>	65.98 <sup>295</sup>	31.064 <sup>248</sup>	49.71 <sup>246</sup>	41.475 <sup>241</sup>	7.98 <sup>24</sup>
Mai 9.8	46.314 <sup>403</sup>	63.27 <sup>271</sup>	31.345 <sup>281</sup>	47.30 <sup>241</sup>	41.747 <sup>272</sup>	8.60 <sup>62</sup>
19.8	46.758 <sup>444</sup>	60.87 <sup>240</sup>	31.654 <sup>309</sup>	44.99 <sup>231</sup>	42.044 <sup>297</sup>	9.61 <sup>101</sup>
29.8	47.233 <sup>475</sup>	58.84 <sup>203</sup>	31.985 <sup>331</sup>	42.84 <sup>215</sup>	42.359 <sup>315</sup>	10.98 <sup>137</sup>
Juni 8.7	47.729 <sup>496</sup>	57.21 <sup>163</sup>	32.329 <sup>344</sup>	40.90 <sup>194</sup>	42.684 <sup>325</sup>	12.66 <sup>168</sup>
18.7	48.232 <sup>503</sup>	56.04 <sup>117</sup>	32.678 <sup>349</sup>	39.22 <sup>168</sup>	43.010 <sup>326</sup>	14.62 <sup>196</sup>
28.7	48.729 <sup>497</sup>	55.35 <sup>69</sup>	33.023 <sup>345</sup>	37.85 <sup>137</sup>	43.328 <sup>318</sup>	16.80 <sup>218</sup>
Juli 8.7	49.206 <sup>477</sup>	55.15 <sup>20</sup>	33.353 <sup>330</sup>	36.81 <sup>104</sup>	43.630 <sup>302</sup>	19.14 <sup>234</sup>
18.6	49.653 <sup>447</sup>	55.45 <sup>30</sup>	33.662 <sup>309</sup>	36.14 <sup>67</sup>	43.909 <sup>279</sup>	21.58 <sup>249</sup>
28.6	50.053 <sup>400</sup>	56.23 <sup>78</sup>	33.940 <sup>278</sup>	35.85 <sup>29</sup>	44.158 <sup>249</sup>	24.07 <sup>246</sup>
Aug. 7.6	50.398 <sup>345</sup>	57.47 <sup>124</sup>	34.179 <sup>239</sup>	35.94 <sup>9</sup>	44.370 <sup>212</sup>	26.53 <sup>241</sup>
17.6	50.676 <sup>278</sup>	59.13 <sup>166</sup>	34.375 <sup>196</sup>	36.39 <sup>45</sup>	44.543 <sup>173</sup>	28.94 <sup>241</sup>
27.5	50.882 <sup>206</sup>	61.14 <sup>201</sup>	34.524 <sup>149</sup>	37.18 <sup>79</sup>	44.675 <sup>132</sup>	31.22 <sup>228</sup>
Sept. 6.5	51.009 <sup>127</sup>	63.43 <sup>229</sup>	34.623	38.26 <sup>108</sup>	44.763	33.35 <sup>213</sup>
16.5	51.058 <sup>49</sup>	65.91 <sup>248</sup>	34.672 <sup>49</sup>	39.60 <sup>134</sup>	44.810 <sup>47</sup>	35.29 <sup>194</sup>
26.4	51.027 <sup>31</sup>	68.49 <sup>258</sup>	34.674 <sup>2</sup>	41.11 <sup>151</sup>	44.817 <sup>7</sup>	37.01 <sup>172</sup>
Okt. 6.4	50.924 <sup>103</sup>	71.06 <sup>257</sup>	34.633 <sup>41</sup>	42.73 <sup>162</sup>	44.788 <sup>29</sup>	38.47 <sup>146</sup>
16.4	50.754 <sup>170</sup>	73.52 <sup>246</sup>	34.552 <sup>81</sup>	44.40 <sup>167</sup>	44.728 <sup>60</sup>	39.68 <sup>121</sup>
26.4	50.527 <sup>227</sup>	75.78 <sup>226</sup>	34.440 <sup>112</sup>	46.02 <sup>162</sup>	44.641 <sup>87</sup>	40.60 <sup>92</sup>
Nov. 5.3	50.255 <sup>272</sup>	77.72 <sup>194</sup>	34.302 <sup>138</sup>	47.54 <sup>152</sup>	44.534 <sup>107</sup>	41.23 <sup>63</sup>
15.3	49.950 <sup>305</sup>	79.28 <sup>156</sup>	34.148 <sup>154</sup>	48.88 <sup>134</sup>	44.411 <sup>123</sup>	41.56 <sup>33</sup>
25.3	49.626 <sup>324</sup>	80.39 <sup>111</sup>	33.985 <sup>163</sup>	50.00 <sup>112</sup>	44.278 <sup>133</sup>	41.58 <sup>2</sup>
Dez. 5.3	49.297 <sup>329</sup>	81.00 <sup>61</sup>	33.819 <sup>166</sup>	50.85 <sup>85</sup>	44.139 <sup>139</sup>	41.30 <sup>28</sup>
15.2	48.973 <sup>324</sup>	81.09 <sup>9</sup>	33.657 <sup>162</sup>	51.39 <sup>54</sup>	44.000 <sup>139</sup>	40.73 <sup>57</sup>
25.2	48.668 <sup>305</sup>	80.65 <sup>44</sup>	33.505 <sup>152</sup>	51.61 <sup>22</sup>	43.864 <sup>136</sup>	39.87 <sup>86</sup>
35.2	48.389 <sup>279</sup>	79.69 <sup>96</sup>	33.368 <sup>137</sup>	51.50 <sup>11</sup>	43.737 <sup>127</sup>	38.77 <sup>110</sup>
Mittl. Ort sec δ, tg δ	46.098 1.923	88.40 -1.643	30.446 1.192	65.12 -0.649	40.499 1.089	7.77 +0.431

Mittlere Zeit Greenw.	882) 4 Cassiopeiae		884) $\alpha$ Piscium		885) 70 Pegasi	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	23 <sup>h</sup> 21 <sup>m</sup>	+61° 50'	23 <sup>h</sup> 22 <sup>m</sup>	+0° 49'	23 <sup>h</sup> 25 <sup>m</sup>	+12° 18'
Jan. 1.2	17.19 <sub>34</sub>	59.25 <sub>129</sub>	50.325 <sub>98</sub>	8.27 <sub>76</sub>	6.956 <sub>106</sub>	17.59 <sub>100</sub>
11.2	16.85 <sub>31</sub>	57.96 <sub>180</sub>	50.227 <sub>84</sub>	7.51 <sub>72</sub>	6.850 <sub>92</sub>	16.59 <sub>108</sub>
21.1	16.54 <sub>27</sub>	56.16 <sub>222</sub>	50.143 <sub>68</sub>	6.79 <sub>66</sub>	6.758 <sub>75</sub>	15.51 <sub>113</sub>
31.1	16.27 <sub>21</sub>	53.94 <sub>257</sub>	50.075 <sub>46</sub>	6.13 <sub>57</sub>	6.683 <sub>55</sub>	14.38 <sub>111</sub>
Feb. 10.1	16.06 <sub>14</sub>	51.37 <sub>282</sub>	50.029 <sub>22</sub>	5.56 <sub>43</sub>	6.628 <sub>28</sub>	13.27 <sub>105</sub>
20.1	15.92	48.55 <sub>293</sub>	50.007 <sub>6</sub>	5.13 <sub>26</sub>	6.600 <sub>1</sub>	12.22 <sub>93</sub>
März 1.0	15.85 <sub>7</sub>	45.62 <sub>294</sub>	50.013 <sub>38</sub>	4.87 <sub>6</sub>	6.601 <sub>34</sub>	11.29 <sub>75</sub>
11.0	15.86 <sub>10</sub>	42.68 <sub>282</sub>	50.051 <sub>73</sub>	4.81 <sub>17</sub>	6.635 <sub>71</sub>	10.54 <sub>52</sub>
21.0	15.96 <sub>19</sub>	39.86 <sub>259</sub>	50.124 <sub>110</sub>	4.98 <sub>43</sub>	6.706 <sub>109</sub>	10.02 <sub>25</sub>
30.9	16.15 <sub>26</sub>	37.27 <sub>226</sub>	50.234 <sub>147</sub>	5.41 <sub>70</sub>	6.815 <sub>148</sub>	9.77 <sub>5</sub>
Apr. 9.9	16.41 <sub>34</sub>	35.01 <sub>184</sub>	50.381 <sub>184</sub>	6.11 <sub>97</sub>	6.963 <sub>187</sub>	9.82 <sub>38</sub>
19.9	16.75 <sub>41</sub>	33.17 <sub>135</sub>	50.565 <sub>218</sub>	7.08 <sub>122</sub>	7.150 <sub>222</sub>	10.20 <sub>70</sub>
29.9	17.16 <sub>46</sub>	31.82 <sub>83</sub>	50.783 <sub>248</sub>	8.30 <sub>146</sub>	7.372 <sub>254</sub>	10.90 <sub>102</sub>
Mai 9.8	17.62 <sub>51</sub>	30.99 <sub>26</sub>	51.031 <sub>274</sub>	9.76 <sub>166</sub>	7.626 <sub>279</sub>	11.92 <sub>132</sub>
19.8	18.13 <sub>53</sub>	30.73 <sub>30</sub>	51.305 <sub>294</sub>	11.42 <sub>182</sub>	7.905 <sub>299</sub>	13.24 <sub>159</sub>
29.8	18.66 <sub>54</sub>	31.03 <sub>86</sub>	51.599 <sub>304</sub>	13.24 <sub>194</sub>	8.204 <sub>310</sub>	14.83 <sub>181</sub>
Juni 8.8	19.20 <sub>54</sub>	31.89 <sub>138</sub>	51.903 <sub>309</sub>	15.18 <sub>200</sub>	8.514 <sub>313</sub>	16.64 <sub>198</sub>
18.7	19.74 <sub>52</sub>	33.27 <sub>188</sub>	52.212 <sub>304</sub>	17.18 <sub>202</sub>	8.827 <sub>308</sub>	18.62 <sub>211</sub>
28.7	20.26 <sub>50</sub>	35.15 <sub>231</sub>	52.516 <sub>291</sub>	19.20 <sub>196</sub>	9.135 <sub>295</sub>	20.73 <sub>217</sub>
Juli 8.7	20.76 <sub>44</sub>	37.46 <sub>269</sub>	52.807 <sub>271</sub>	21.16 <sub>188</sub>	9.430 <sub>275</sub>	22.90 <sub>218</sub>
18.6	21.20 <sub>40</sub>	40.15 <sub>301</sub>	53.078 <sub>245</sub>	23.04 <sub>173</sub>	9.705 <sub>247</sub>	25.08 <sub>213</sub>
28.6	21.60 <sub>33</sub>	43.16 <sub>325</sub>	53.323 <sub>212</sub>	24.77 <sub>156</sub>	9.952 <sub>214</sub>	27.21 <sub>205</sub>
Aug. 7.6	21.93 <sub>27</sub>	46.41 <sub>342</sub>	53.535 <sub>175</sub>	26.33 <sub>135</sub>	10.166 <sub>178</sub>	29.26 <sub>191</sub>
17.6	22.20 <sub>19</sub>	49.83 <sub>353</sub>	53.710 <sub>137</sub>	27.68 <sub>113</sub>	10.344 <sub>137</sub>	31.17 <sub>175</sub>
27.5	22.39 <sub>12</sub>	53.36 <sub>354</sub>	53.847 <sub>95</sub>	28.81 <sub>88</sub>	10.481 <sub>97</sub>	32.92 <sub>154</sub>
Sept. 6.5	22.51 <sub>5</sub>	56.90 <sub>350</sub>	53.942 <sub>55</sub>	29.69 <sub>64</sub>	10.578 <sub>57</sub>	34.46 <sub>133</sub>
16.5	22.56 <sub>3</sub>	60.40 <sub>338</sub>	53.997 <sub>18</sub>	30.33 <sub>41</sub>	10.635 <sub>19</sub>	35.79 <sub>109</sub>
26.5	22.53 <sub>9</sub>	63.78 <sub>319</sub>	54.015 <sub>18</sub>	30.74 <sub>18</sub>	10.654 <sub>17</sub>	36.88 <sub>86</sub>
Okt. 6.4	22.44 <sub>15</sub>	66.97 <sub>293</sub>	53.997 <sub>47</sub>	30.92 <sub>2</sub>	10.637 <sub>46</sub>	37.74 <sub>63</sub>
16.4	22.29 <sub>21</sub>	69.90 <sub>260</sub>	53.950 <sub>73</sub>	30.90 <sub>19</sub>	10.591 <sub>72</sub>	38.37 <sub>38</sub>
26.4	22.08 <sub>26</sub>	72.50 <sub>222</sub>	53.877 <sub>93</sub>	30.71 <sub>36</sub>	10.519 <sub>92</sub>	38.75 <sub>16</sub>
Nov. 5.3	21.82 <sub>29</sub>	74.72 <sub>176</sub>	53.784 <sub>106</sub>	30.35 <sub>48</sub>	10.427 <sub>108</sub>	38.91 <sub>6</sub>
15.3	21.53 <sub>34</sub>	76.48 <sub>127</sub>	53.678 <sub>116</sub>	29.87 <sub>59</sub>	10.319 <sub>117</sub>	38.85 <sub>26</sub>
25.3	21.19 <sub>35</sub>	77.75 <sub>73</sub>	53.562 <sub>119</sub>	29.28 <sub>67</sub>	10.202 <sub>123</sub>	38.59 <sub>47</sub>
Dez. 5.3	20.84 <sub>37</sub>	78.48 <sub>17</sub>	53.443 <sub>119</sub>	28.61 <sub>73</sub>	10.079 <sub>124</sub>	38.12 <sub>65</sub>
15.2	20.47 <sub>36</sub>	78.65 <sub>41</sub>	53.324 <sub>115</sub>	27.88 <sub>76</sub>	9.955 <sub>121</sub>	37.47 <sub>81</sub>
25.2	20.11 <sub>36</sub>	78.24 <sub>98</sub>	53.209 <sub>107</sub>	27.12 <sub>78</sub>	9.834 <sub>114</sub>	36.66 <sub>95</sub>
35.2	19.75	77.26	53.102	26.34	9.720	35.71
Mittl. Ort sec $\delta$ , tg $\delta$	16.61 2.119	36.24 +1.868	49.877 1.000	2.80 +0.014	6.434 1.024	68.27 +0.218

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	891) $\iota$ Andromedae		892) $\iota$ Piscium		893) $\gamma$ Cephei	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	23 <sup>h</sup> 34 <sup>m</sup>	+42° 49'	23 <sup>h</sup> 35 <sup>m</sup>	+5° 11'	23 <sup>h</sup> 36 <sup>m</sup>	+77° 11'
Jan. 1.2	13.179 <sup>184</sup>	48.62 <sup>124</sup>	50.623 <sup>103</sup>	39.61 <sup>85</sup>	3.99 <sup>86</sup>	34.17 <sup>88</sup>
11.2	12.995 <sup>168</sup>	47.38 <sup>161</sup>	50.520 <sup>93</sup>	38.76 <sup>86</sup>	3.13 <sup>80</sup>	33.29 <sup>147</sup>
21.2	12.827 <sup>146</sup>	45.77 <sup>192</sup>	50.427 <sup>78</sup>	37.90 <sup>84</sup>	2.33 <sup>71</sup>	31.82 <sup>200</sup>
31.1	12.681 <sup>116</sup>	43.85 <sup>216</sup>	50.349 <sup>58</sup>	37.06 <sup>77</sup>	1.62 <sup>58</sup>	29.82 <sup>246</sup>
Feb. 10.1	12.565 <sup>80</sup>	41.69 <sup>231</sup>	50.291 <sup>34</sup>	36.29 <sup>66</sup>	1.04 <sup>44</sup>	27.36 <sup>280</sup>
20.1	12.485 <sup>36</sup>	39.38 <sup>235</sup>	50.257 <sup>7</sup>	35.63 <sup>52</sup>	0.60 <sup>28</sup>	24.56 <sup>304</sup>
März 1.0	12.449 <sup>12</sup>	37.03 <sup>230</sup>	50.250 <sup>25</sup>	35.11 <sup>33</sup>	0.32 <sup>10</sup>	21.52 <sup>315</sup>
11.0	12.461 <sup>65</sup>	34.73 <sup>215</sup>	50.275 <sup>60</sup>	34.78 <sup>11</sup>	0.22 <sup>9</sup>	18.37 <sup>313</sup>
21.0	12.526 <sup>119</sup>	32.58 <sup>190</sup>	50.335 <sup>98</sup>	34.67 <sup>16</sup>	0.31 <sup>27</sup>	15.24 <sup>300</sup>
31.0	12.645 <sup>174</sup>	30.68 <sup>157</sup>	50.433 <sup>136</sup>	34.83 <sup>43</sup>	0.58 <sup>45</sup>	12.24 <sup>273</sup>
Apr. 9.9	12.819 <sup>225</sup>	29.11 <sup>118</sup>	50.569 <sup>175</sup>	35.26 <sup>71</sup>	1.03 <sup>61</sup>	9.51 <sup>237</sup>
19.9	13.044 <sup>272</sup>	27.93 <sup>74</sup>	50.744 <sup>210</sup>	35.97 <sup>100</sup>	1.64 <sup>75</sup>	7.14 <sup>193</sup>
29.9	13.316 <sup>313</sup>	27.19 <sup>26</sup>	50.954 <sup>243</sup>	36.97 <sup>126</sup>	2.39 <sup>88</sup>	5.21 <sup>141</sup>
Mai 9.9	13.629 <sup>346</sup>	26.93 <sup>22</sup>	51.197 <sup>270</sup>	38.23 <sup>151</sup>	3.27 <sup>96</sup>	3.80 <sup>87</sup>
19.8	13.975 <sup>369</sup>	27.15 <sup>70</sup>	51.467 <sup>291</sup>	39.74 <sup>171</sup>	4.23 <sup>102</sup>	2.93 <sup>29</sup>
29.8	14.344 <sup>383</sup>	27.85 <sup>117</sup>	51.758 <sup>304</sup>	41.45 <sup>187</sup>	5.25 <sup>105</sup>	2.64 <sup>29</sup>
Juni 8.8	14.727 <sup>386</sup>	29.02 <sup>160</sup>	52.062 <sup>310</sup>	43.32 <sup>198</sup>	6.30 <sup>105</sup>	2.93 <sup>87</sup>
18.7	15.113 <sup>378</sup>	30.62 <sup>198</sup>	52.372 <sup>307</sup>	45.30 <sup>203</sup>	7.35 <sup>101</sup>	3.80 <sup>141</sup>
28.7	15.491 <sup>361</sup>	32.60 <sup>231</sup>	52.679 <sup>297</sup>	47.33 <sup>203</sup>	8.36 <sup>96</sup>	5.21 <sup>193</sup>
Juli 8.7	15.852 <sup>335</sup>	34.91 <sup>258</sup>	52.976 <sup>278</sup>	49.36 <sup>198</sup>	9.32 <sup>89</sup>	7.14 <sup>238</sup>
18.7	16.187 <sup>302</sup>	37.49 <sup>279</sup>	53.254 <sup>253</sup>	51.34 <sup>188</sup>	10.21 <sup>79</sup>	9.52 <sup>278</sup>
28.6	16.489 <sup>260</sup>	40.28 <sup>293</sup>	53.507 <sup>222</sup>	53.22 <sup>174</sup>	11.00 <sup>66</sup>	12.30 <sup>312</sup>
Aug. 7.6	16.749 <sup>216</sup>	43.21 <sup>301</sup>	53.729 <sup>186</sup>	54.96 <sup>156</sup>	11.66 <sup>55</sup>	15.42 <sup>340</sup>
17.6	16.965 <sup>168</sup>	46.22 <sup>303</sup>	53.915 <sup>148</sup>	56.52 <sup>136</sup>	12.21 <sup>40</sup>	18.82 <sup>358</sup>
27.5	17.133 <sup>118</sup>	49.25 <sup>298</sup>	54.063 <sup>108</sup>	57.88 <sup>113</sup>	12.61 <sup>26</sup>	22.40 <sup>371</sup>
Sept. 6.5	17.251 <sup>69</sup>	52.23 <sup>286</sup>	54.171 <sup>69</sup>	59.01 <sup>90</sup>	12.87 <sup>11</sup>	26.11 <sup>376</sup>
16.5	17.320 <sup>21</sup>	55.09 <sup>271</sup>	54.240 <sup>31</sup>	59.91 <sup>66</sup>	12.98 <sup>3</sup>	29.87 <sup>372</sup>
26.5	17.341 <sup>23</sup>	57.80 <sup>250</sup>	54.271 <sup>4</sup>	60.57 <sup>43</sup>	12.95 <sup>18</sup>	33.59 <sup>361</sup>
Okt. 6.4	17.318 <sup>63</sup>	60.30 <sup>223</sup>	54.267 <sup>35</sup>	61.00 <sup>22</sup>	12.77 <sup>32</sup>	37.20 <sup>342</sup>
16.4	17.255 <sup>99</sup>	62.53 <sup>193</sup>	54.232 <sup>61</sup>	61.22 <sup>1</sup>	12.45 <sup>44</sup>	40.62 <sup>315</sup>
26.4	17.156 <sup>129</sup>	64.46 <sup>158</sup>	54.171 <sup>82</sup>	61.23 <sup>17</sup>	12.01 <sup>57</sup>	43.77 <sup>281</sup>
Nov. 5.4	17.027 <sup>154</sup>	66.04 <sup>119</sup>	54.089 <sup>98</sup>	61.06 <sup>33</sup>	11.44 <sup>67</sup>	46.58 <sup>238</sup>
15.3	16.873 <sup>173</sup>	67.23 <sup>77</sup>	53.991 <sup>109</sup>	60.73 <sup>48</sup>	10.77 <sup>76</sup>	48.96 <sup>188</sup>
25.3	16.700 <sup>188</sup>	68.00 <sup>34</sup>	53.882 <sup>116</sup>	60.25 <sup>60</sup>	10.01 <sup>83</sup>	50.84 <sup>134</sup>
Dez. 5.3	16.512 <sup>195</sup>	68.34 <sup>11</sup>	53.766 <sup>118</sup>	59.65 <sup>70</sup>	9.18 <sup>88</sup>	52.18 <sup>75</sup>
15.2	16.317 <sup>197</sup>	68.23 <sup>56</sup>	53.648 <sup>117</sup>	58.95 <sup>79</sup>	8.30 <sup>90</sup>	52.93 <sup>12</sup>
25.2	16.120 <sup>193</sup>	67.67 <sup>101</sup>	53.531 <sup>111</sup>	58.16 <sup>84</sup>	7.40 <sup>88</sup>	53.05 <sup>52</sup>
35.2	15.927	66.66	53.420	57.32	6.52	52.53
Mittl. Ort sec $\delta$ , tg $\delta$	12.468 1.363	29.95 +0.927	50.075 1.004	32.93 +0.091	3.11 4.509	8.97 +4.397

Mittlere Zeit Greenw.	894) $\omega^2$ Aquarii		895) 4I H. Cephei		896) Lac. $\delta$ Sculptoris	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1920	23 <sup>h</sup> 38 <sup>m</sup>	-14° 58'	23 <sup>h</sup> 44 <sup>m</sup>	+67° 21'	23 <sup>h</sup> 44 <sup>m</sup>	-28° 33'
Jan. I.2	34.916 <sup>109</sup>	74.71 <sup>36</sup>	5.47 <sup>45</sup>	68.05 <sup>95</sup>	45.982 <sup>133</sup>	86.76 <sup>0</sup>
II.2	34.807 <sup>97</sup>	75.07 <sup>17</sup>	5.02 <sup>43</sup>	67.10 <sup>149</sup>	45.849 <sup>118</sup>	86.76 <sup>31</sup>
2I.2	34.710 <sup>81</sup>	75.24 <sup>3</sup>	4.59 <sup>37</sup>	65.61 <sup>199</sup>	45.731 <sup>100</sup>	86.45 <sup>62</sup>
3I.I	34.629 <sup>61</sup>	75.21 <sup>25</sup>	4.22 <sup>32</sup>	63.62 <sup>240</sup>	45.631 <sup>78</sup>	85.83 <sup>91</sup>
Feb. IO.I	34.568 <sup>37</sup>	74.96 <sup>46</sup>	3.90 <sup>24</sup>	61.22 <sup>272</sup>	45.553 <sup>52</sup>	84.92 <sup>121</sup>
20.I	34.531 <sup>9</sup>	74.50 <sup>69</sup>	3.66 <sup>16</sup>	58.50 <sup>293</sup>	45.501 <sup>22</sup>	83.71 <sup>147</sup>
März I.O	34.522 <sup>22</sup>	73.81 <sup>92</sup>	3.50 <sup>5</sup>	55.57 <sup>301</sup>	45.479 <sup>12</sup>	82.24 <sup>171</sup>
II.O	34.544 <sup>57</sup>	72.89 <sup>114</sup>	3.45 <sup>6</sup>	52.56 <sup>297</sup>	45.491 <sup>50</sup>	80.53 <sup>193</sup>
2I.O	34.601 <sup>94</sup>	71.75 <sup>137</sup>	3.51 <sup>16</sup>	49.59 <sup>282</sup>	45.541 <sup>90</sup>	78.60 <sup>212</sup>
3I.O	34.695 <sup>132</sup>	70.38 <sup>157</sup>	3.67 <sup>26</sup>	46.77 <sup>254</sup>	45.631 <sup>131</sup>	76.48 <sup>227</sup>
Apr. 9.9	34.827 <sup>171</sup>	68.81 <sup>175</sup>	3.93 <sup>36</sup>	44.23 <sup>218</sup>	45.762 <sup>173</sup>	74.21 <sup>238</sup>
19.9	34.998 <sup>208</sup>	67.06 <sup>191</sup>	4.29 <sup>45</sup>	42.05 <sup>174</sup>	45.935 <sup>212</sup>	71.83 <sup>245</sup>
29.9	35.206 <sup>241</sup>	65.15 <sup>203</sup>	4.74 <sup>52</sup>	40.31 <sup>124</sup>	46.147 <sup>249</sup>	69.38 <sup>245</sup>
Mai 9.9	35.447 <sup>269</sup>	63.12 <sup>209</sup>	5.26 <sup>58</sup>	39.07 <sup>70</sup>	46.396 <sup>281</sup>	66.93 <sup>241</sup>
19.8	35.716 <sup>292</sup>	61.03 <sup>211</sup>	5.84 <sup>62</sup>	38.37 <sup>14</sup>	46.677 <sup>306</sup>	64.52 <sup>231</sup>
29.8	36.008 <sup>307</sup>	58.92 <sup>208</sup>	6.46 <sup>65</sup>	38.23 <sup>45</sup>	46.983 <sup>325</sup>	62.21 <sup>215</sup>
Juni 8.8	36.315 <sup>315</sup>	56.84 <sup>199</sup>	7.11 <sup>65</sup>	38.68 <sup>99</sup>	47.308 <sup>334</sup>	60.06 <sup>194</sup>
18.7	36.630 <sup>314</sup>	54.85 <sup>184</sup>	7.76 <sup>63</sup>	39.67 <sup>150</sup>	47.642 <sup>336</sup>	58.12 <sup>167</sup>
28.7	36.944 <sup>305</sup>	53.01 <sup>166</sup>	8.39 <sup>61</sup>	41.17 <sup>199</sup>	47.978 <sup>328</sup>	56.45 <sup>137</sup>
Juli 8.7	37.249 <sup>287</sup>	51.35 <sup>143</sup>	9.00 <sup>57</sup>	43.16 <sup>242</sup>	48.306 <sup>311</sup>	55.08 <sup>102</sup>
18.7	37.536 <sup>263</sup>	49.92 <sup>116</sup>	9.57 <sup>50</sup>	45.58 <sup>278</sup>	48.617 <sup>287</sup>	54.06 <sup>66</sup>
28.6	37.799 <sup>232</sup>	48.76 <sup>88</sup>	10.07 <sup>44</sup>	48.36 <sup>310</sup>	48.904 <sup>254</sup>	53.40 <sup>28</sup>
Aug. 7.6	38.031 <sup>196</sup>	47.88 <sup>57</sup>	10.51 <sup>36</sup>	51.46 <sup>333</sup>	49.158 <sup>216</sup>	53.12 <sup>9</sup>
17.6	38.227 <sup>156</sup>	47.31 <sup>26</sup>	10.87 <sup>29</sup>	54.79 <sup>350</sup>	49.374 <sup>174</sup>	53.21 <sup>46</sup>
27.6	38.383 <sup>114</sup>	47.05 <sup>3</sup>	11.16 <sup>19</sup>	58.29 <sup>358</sup>	49.548 <sup>128</sup>	53.67 <sup>79</sup>
Sept. 6.5	38.497 <sup>73</sup>	47.08 <sup>30</sup>	11.35 <sup>11</sup>	61.87 <sup>361</sup>	49.676 <sup>82</sup>	54.46 <sup>107</sup>
16.5	38.570 <sup>33</sup>	47.38 <sup>54</sup>	11.46 <sup>3</sup>	65.48 <sup>355</sup>	49.758 <sup>37</sup>	55.53 <sup>131</sup>
26.5	38.603 <sup>6</sup>	47.92 <sup>74</sup>	11.49 <sup>6</sup>	69.03 <sup>342</sup>	49.795 <sup>5</sup>	56.84 <sup>149</sup>
Okt. 6.4	38.597 <sup>38</sup>	48.66 <sup>89</sup>	11.43 <sup>14</sup>	72.45 <sup>321</sup>	49.790 <sup>44</sup>	58.33 <sup>158</sup>
16.4	38.559 <sup>68</sup>	49.55 <sup>99</sup>	11.29 <sup>21</sup>	75.66 <sup>294</sup>	49.746 <sup>77</sup>	59.91 <sup>161</sup>
26.4	38.491 <sup>89</sup>	50.54 <sup>105</sup>	11.08 <sup>28</sup>	78.60 <sup>259</sup>	49.669 <sup>104</sup>	61.52 <sup>158</sup>
Nov. 5.4	38.402 <sup>107</sup>	51.59 <sup>104</sup>	10.80 <sup>34</sup>	81.19 <sup>216</sup>	49.565 <sup>125</sup>	63.10 <sup>146</sup>
15.3	38.295 <sup>119</sup>	52.63 <sup>99</sup>	10.46 <sup>39</sup>	83.35 <sup>169</sup>	49.440 <sup>139</sup>	64.56 <sup>129</sup>
25.3	38.176 <sup>124</sup>	53.62 <sup>91</sup>	10.07 <sup>43</sup>	85.04 <sup>117</sup>	49.301 <sup>148</sup>	65.85 <sup>106</sup>
Dez. 5.3	38.052 <sup>127</sup>	54.53 <sup>80</sup>	9.64 <sup>45</sup>	86.21 <sup>59</sup>	49.153 <sup>150</sup>	66.91 <sup>81</sup>
15.3	37.925 <sup>124</sup>	55.33 <sup>65</sup>	9.19 <sup>47</sup>	86.80 <sup>0</sup>	49.003 <sup>148</sup>	67.72 <sup>53</sup>
25.2	37.801 <sup>117</sup>	55.98 <sup>49</sup>	8.72 <sup>47</sup>	86.80 <sup>59</sup>	48.855 <sup>140</sup>	68.25 <sup>21</sup>
35.2	37.684	56.47	8.25	86.21	48.715	68.46
Mittl. Ort sec $\lambda$ , tg $\delta$	34.495 I.035	74.47 -0.268	4.49 2.598	44.14 +2.398	45.664 I.139	82.09 -0.545

# Obere Kulmination Greenwich

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Mittlere Zeit Greenw.	898) $\varphi$ Pegasi		902) $\omega$ Piscium		903) $\varepsilon$ Tucanae	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
	23 <sup>h</sup> 48 <sup>m</sup>	+18° 40'	23 <sup>h</sup> 55 <sup>m</sup>	+6° 25'	23 <sup>h</sup> 55 <sup>m</sup>	-66° 0'
1920						
Jan. 1.2	25.639 <sub>120</sub>	44.23 <sub>100</sub>	12.793 <sub>110</sub>	20.05 <sub>82</sub>	45.46 <sub>42</sub>	93.31 <sub>103</sub>
11.2	25.519 <sub>112</sub>	43.23 <sub>115</sub>	12.683 <sub>104</sub>	19.23 <sub>85</sub>	45.04 <sub>38</sub>	92.28 <sub>156</sub>
21.2	25.407 <sub>97</sub>	42.08 <sub>126</sub>	12.579 <sub>90</sub>	18.38 <sub>84</sub>	44.66 <sub>32</sub>	90.72 <sub>206</sub>
31.1	25.310 <sub>79</sub>	40.82 <sub>131</sub>	12.489 <sub>74</sub>	17.54 <sub>79</sub>	44.34 <sub>28</sub>	88.66 <sub>249</sub>
Feb. 10.1	25.231 <sub>55</sub>	39.51 <sub>130</sub>	12.415 <sub>53</sub>	16.75 <sub>69</sub>	44.06 <sub>21</sub>	86.17 <sub>285</sub>
20.1	25.176 <sub>25</sub>	38.21 <sub>123</sub>	12.362 <sub>27</sub>	16.06 <sub>56</sub>	43.85 <sub>13</sub>	83.32 <sub>316</sub>
März 1.1	25.151 <sub>8</sub>	36.98 <sub>110</sub>	12.335 <sub>5</sub>	15.50 <sub>39</sub>	43.72 <sub>7</sub>	80.16 <sub>338</sub>
11.0	25.159 <sub>47</sub>	35.88 <sub>90</sub>	12.340 <sub>40</sub>	15.11 <sub>17</sub>	43.65 <sub>2</sub>	76.78 <sub>351</sub>
21.0	25.206 <sub>87</sub>	34.98 <sub>65</sub>	12.380 <sub>79</sub>	14.94 <sub>8</sub>	43.67 <sub>10</sub>	73.27 <sub>359</sub>
31.0	25.293 <sub>130</sub>	34.33 <sub>36</sub>	12.459 <sub>117</sub>	15.02 <sub>34</sub>	43.77 <sub>18</sub>	69.68 <sub>358</sub>
Apr. 9.9	25.423 <sub>171</sub>	33.97 <sub>2</sub>	12.576 <sub>158</sub>	15.36 <sub>63</sub>	43.95 <sub>26</sub>	66.10 <sub>349</sub>
19.9	25.594 <sub>210</sub>	33.95 <sub>32</sub>	12.734 <sub>195</sub>	15.99 <sub>92</sub>	44.21 <sub>34</sub>	62.61 <sub>333</sub>
29.9	25.804 <sub>246</sub>	34.27 <sub>67</sub>	12.929 <sub>230</sub>	16.91 <sub>118</sub>	44.55 <sub>41</sub>	59.28 <sub>310</sub>
Mai 9.9	26.050 <sub>275</sub>	34.94 <sub>100</sub>	13.159 <sub>261</sub>	18.09 <sub>144</sub>	44.96 <sub>48</sub>	56.18 <sub>279</sub>
19.8	26.325 <sub>299</sub>	35.94 <sub>133</sub>	13.420 <sub>284</sub>	19.53 <sub>165</sub>	45.44 <sub>53</sub>	53.39 <sub>243</sub>
29.8	26.624 <sub>314</sub>	37.27 <sub>160</sub>	13.704 <sub>300</sub>	21.18 <sub>182</sub>	45.97 <sub>57</sub>	50.96 <sub>201</sub>
Juni 8.8	26.938 <sub>320</sub>	38.87 <sub>185</sub>	14.004 <sub>309</sub>	23.00 <sub>194</sub>	46.54 <sub>59</sub>	48.95 <sub>153</sub>
18.8	27.258 <sub>319</sub>	40.72 <sub>203</sub>	14.313 <sub>310</sub>	24.94 <sub>202</sub>	47.13 <sub>61</sub>	47.42 <sub>102</sub>
28.7	27.577 <sub>309</sub>	42.75 <sub>216</sub>	14.623 <sub>302</sub>	26.96 <sub>204</sub>	47.74 <sub>60</sub>	46.40 <sub>49</sub>
Juli 8.7	27.886 <sub>291</sub>	44.91 <sub>224</sub>	14.925 <sub>286</sub>	29.00 <sub>200</sub>	48.34 <sub>58</sub>	45.91 <sub>6</sub>
18.7	28.177 <sub>266</sub>	47.15 <sub>227</sub>	15.211 <sub>264</sub>	31.00 <sub>192</sub>	48.92 <sub>53</sub>	45.97 <sub>61</sub>
28.6	28.443 <sub>236</sub>	49.42 <sub>223</sub>	15.475 <sub>235</sub>	32.92 <sub>179</sub>	49.45 <sub>49</sub>	46.58 <sub>112</sub>
Aug. 7.6	28.679 <sub>200</sub>	51.65 <sub>215</sub>	15.710 <sub>202</sub>	34.71 <sub>162</sub>	49.94 <sub>41</sub>	47.70 <sub>161</sub>
17.6	28.879 <sub>161</sub>	53.80 <sub>204</sub>	15.912 <sub>165</sub>	36.33 <sub>143</sub>	50.35 <sub>33</sub>	49.31 <sub>204</sub>
27.6	29.040 <sub>122</sub>	55.84 <sub>187</sub>	16.077 <sub>127</sub>	37.76 <sub>121</sub>	50.68 <sub>24</sub>	51.35 <sub>241</sub>
Sept. 6.5	29.162 <sub>82</sub>	57.71 <sub>168</sub>	16.204 <sub>87</sub>	38.97 <sub>98</sub>	50.92 <sub>15</sub>	53.76 <sub>267</sub>
16.5	29.244 <sub>43</sub>	59.39 <sub>147</sub>	16.291 <sub>51</sub>	39.95 <sub>74</sub>	51.07 <sub>4</sub>	56.43 <sub>284</sub>
26.5	29.287 <sub>7</sub>	60.86 <sub>124</sub>	16.342 <sub>15</sub>	40.69 <sub>51</sub>	51.11 <sub>5</sub>	59.27 <sub>291</sub>
Okt. 6.5	29.294 <sub>25</sub>	62.10 <sub>100</sub>	16.357 <sub>17</sub>	41.20 <sub>29</sub>	51.06 <sub>15</sub>	62.18 <sub>286</sub>
16.4	29.269 <sub>53</sub>	63.10 <sub>75</sub>	16.340 <sub>44</sub>	41.49 <sub>9</sub>	50.91 <sub>23</sub>	65.04 <sub>269</sub>
26.4	29.216 <sub>77</sub>	63.85 <sub>51</sub>	16.296 <sub>67</sub>	41.58 <sub>10</sub>	50.68 <sub>30</sub>	67.73 <sub>242</sub>
Nov. 5.4	29.139 <sub>96</sub>	64.36 <sub>25</sub>	16.229 <sub>85</sub>	41.48 <sub>27</sub>	50.38 <sub>36</sub>	70.15 <sub>205</sub>
15.3	29.043 <sub>110</sub>	64.61 <sub>0</sub>	16.144 <sub>100</sub>	41.21 <sub>42</sub>	50.02 <sub>41</sub>	72.20 <sub>159</sub>
25.3	28.933 <sub>120</sub>	64.61 <sub>25</sub>	16.044 <sub>109</sub>	40.79 <sub>55</sub>	49.61 <sub>44</sub>	73.79 <sub>107</sub>
Dez. 5.3	28.813 <sub>127</sub>	64.36 <sub>48</sub>	15.935 <sub>116</sub>	40.24 <sub>66</sub>	49.17 <sub>45</sub>	74.86 <sub>51</sub>
15.3	28.686 <sub>129</sub>	63.88 <sub>71</sub>	15.819 <sub>118</sub>	39.58 <sub>75</sub>	48.72 <sub>45</sub>	75.37 <sub>7</sub>
25.2	28.557 <sub>126</sub>	63.17 <sub>91</sub>	15.701 <sub>116</sub>	38.83 <sub>81</sub>	48.27 <sub>43</sub>	75.30 <sub>66</sub>
35.2	28.431	62.26	15.585	38.02	47.84	74.64
Mittl. Ort	24.934	33.19	12.121	13.39	46.08	80.17
sec $\delta$ , tg $\delta$	1.056	+0.338	1.006	+0.113	2.461	-2.248

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.
1920	0 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+85° 50'	in 0.01	1 <sup>h</sup> 31 <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
Jan. 0	41.95	-6	7.50	-9	86.66	-22	1.42	-8	16.46	-9	46.38	-3
1	41.67	-2	7.58	-10	85.65	-8	1.55	-10	16.35	-7	46.66	-6
2	41.39	+2	7.66	-9	84.63	+7	1.68	-9	16.24	-4	46.94	-8
3	41.11	+6	7.72	-5	83.60	+20	1.80	-7	16.12	+1	47.22	-9
4	40.83	+8	7.78	-1	82.57	+29	1.92	-2	16.00	+5	47.49	-7
5	40.55	+9	7.84	+4	81.54	+30	2.03	+3	15.88	+8	47.76	-3
6	40.27	+7	7.89	+8	80.50	+25	2.13	+7	15.75	+9	48.02	+1
7	39.98	+4	7.93	+10	79.45	+14	2.23	+10	15.62	+9	48.29	+6
8	39.69	0	7.96	+11	78.39	+1	2.32	+11	15.48	+7	48.54	+9
9	39.41	-3	7.99	+9	77.33	-11	2.40	+10	15.34	+4	48.80	+10
10	39.12	-6	8.01	+6	76.26	-20	2.48	+7	15.19	0	49.05	+9
11	38.83	-7	8.00	+3	75.19	-23	2.55	+4	15.04	-3	49.29	+7
12	38.55	-6	8.00	-1	74.12	-21	2.61	0	14.88	-4	49.53	+3
13	38.26	-4	7.99	-4	73.04	-15	2.67	-3	14.72	-5	49.77	0
14	37.98	-2	7.98	-5	71.96	-6	2.72	-5	14.55	-4	50.00	-3
15	37.69	+1	7.97	-6	70.87	+4	2.76	-6	14.38	-3	50.23	-6
16	37.40	+4	7.95	-5	69.79	+13	2.80	-6	14.21	-1	50.45	-7
17	37.12	+5	7.93	-4	68.70	+19	2.83	-5	14.04	+1	50.67	-7
18	36.84	+6	7.91	-2	67.61	+23	2.85	-3	13.86	+3	50.88	-6
19	36.55	+6	7.89	+1	66.52	+23	2.87	0	13.68	+5	51.09	-4
20	36.26	+5	7.86	+3	65.43	+19	2.88	+2	13.49	+5	51.30	-1
21	35.97	+3	7.81	+5	64.34	+11	2.88	+4	13.30	+5	51.50	+2
22	35.69	0	7.75	+5	63.25	0	2.88	+5	13.10	+3	51.69	+4
23	35.41	-3	7.68	+5	62.15	-12	2.87	+5	12.90	+1	51.88	+6
24	35.13	-6	7.61	+2	61.06	-23	2.86	+3	12.70	-3	52.07	+7
25	34.85	-8	7.54	-1	59.97	-30	2.84	0	12.49	-6	52.25	+6
26	34.57	-9	7.46	-4	58.88	-31	2.81	-3	12.29	-8	52.42	+3
27	34.29	-7	7.37	-8	57.80	-25	2.77	-7	12.08	-9	52.59	-1
28	34.02	-4	7.28	-9	56.72	-14	2.73	-9	11.86	-8	52.76	-5
29	33.75	0	7.18	-9	55.64	0	2.68	-9	11.65	-6	52.92	-8
30	33.48	+4	7.07	-7	54.57	+15	2.63	-8	11.43	-2	53.07	-9
31	33.21	+7	6.96	-3	53.50	+26	2.57	-4	11.21	+3	53.22	-8
Febr. 1	32.94	+8	6.84	+1	52.44	+30	2.50	0	10.98	+6	53.36	-5
2	32.67	+7	6.71	+6	51.38	+27	2.43	+5	10.75	+8	53.49	-1
3	32.41	+5	6.58	+9	50.32	+18	2.35	+8	10.52	+9	53.62	+4
4	32.15	+1	6.44	+10	49.27	+5	2.26	+10	10.29	+7	53.74	+7
5	31.89	-3	6.30	+9	48.22	-8	2.17	+10	10.05	+4	53.86	+9
6	31.64	-5	6.15	+7	47.19	-18	2.07	+8	9.82	+1	53.97	+9
sec δ, tg δ	85° 50' 0"	13.763	+13.727		88° 53' 0"	51.313	+51.303		85° 20' 50"	12.328	+12.287	
	10	13.772	+13.736		10	51.441	+51.431		60	12.335	+12.295	

# Obere Kulmination Greenwich

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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.
1920	7 <sup>h</sup> 4 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 25 <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
Jan. 0	5.16	-14	27.93	+4	55.19	-4	32.31	+8	55.16	+3	11.40	+3
1	5.30	-14	28.24	0	55.32	-5	32.49	+5	55.21	+2	11.07	+6
2	5.44	-12	28.54	-4	55.45	-5	32.67	+1	55.27	+1	10.74	+8
3	5.56	-7	28.85	-7	55.57	-4	32.86	-3	55.33	-1	10.41	+8
4	5.68	0	29.16	-9	55.69	-2	33.05	-7	55.40	-2	10.09	+6
5	5.79	+7	29.47	-8	55.81	+1	33.24	-9	55.46	-3	9.77	+3
6	5.89	+13	29.78	-5	55.93	+3	33.44	-9	55.53	-3	9.45	-2
7	5.98	+15	30.10	-2	56.05	+5	33.64	-7	55.60	-3	9.13	-6
8	6.06	+15	30.41	+2	56.17	+6	33.85	-4	55.67	-2	8.82	-8
9	6.13	+13	30.72	+5	56.28	+6	34.06	0	55.75	-1	8.51	-9
10	6.19	+8	31.04	+7	56.39	+4	34.28	+3	55.83	0	8.20	-8
11	6.24	+3	31.35	+7	56.50	+2	34.50	+5	55.91	+1	7.90	-5
12	6.29	-2	31.67	+6	56.61	0	34.73	+5	56.00	+2	7.60	-3
13	6.32	-6	31.98	+3	56.71	-1	34.96	+5	56.09	+2	7.30	+1
14	6.35	-8	32.30	0	56.81	-3	35.19	+3	56.18	+1	7.01	+4
15	6.36	-9	32.61	-3	56.91	-4	35.43	+1	56.28	+1	6.72	+6
16	6.37	-7	32.93	-5	57.00	-4	35.67	-1	56.37	0	6.44	+7
17	6.37	-5	33.24	-6	57.10	-3	35.92	-3	56.47	-1	6.15	+7
18	6.36	-2	33.56	-7	57.19	-2	36.16	-5	56.58	-1	5.88	+6
19	6.34	+2	33.87	-6	57.28	-1	36.42	-6	56.68	-2	5.60	+4
20	6.31	+5	34.19	-5	57.36	+1	36.67	-5	56.79	-2	5.33	+1
21	6.27	+7	34.50	-2	57.44	+2	36.93	-4	56.90	-1	5.06	-2
22	6.23	+8	34.81	+1	57.52	+3	37.19	-1	57.01	-1	4.80	-5
23	6.17	+6	35.13	+5	57.59	+3	37.46	+2	57.12	0	4.55	-7
24	6.11	+2	35.44	+7	57.66	+2	37.73	+5	57.24	+2	4.30	-7
25	6.04	-2	35.74	+9	57.73	+1	38.00	+8	57.36	+3	4.05	-6
26	5.96	-8	36.05	+8	57.80	-1	38.27	+9	57.48	+3	3.81	-3
27	5.87	-12	36.36	+5	57.86	-3	38.55	+9	57.60	+3	3.58	+1
28	5.77	-14	36.66	+2	57.93	-4	38.82	+7	57.72	+3	3.35	+5
29	5.66	-13	36.97	-2	57.98	-5	39.11	+3	57.84	+1	3.12	+8
30	5.54	-9	37.27	-6	58.04	-5	39.39	-2	57.97	0	2.90	+9
Febr. 1	5.41	-3	37.57	-8	58.09	-3	39.68	-6	58.10	-2	2.68	+8
2	5.28	+3	37.87	-8	58.14	-1	39.96	-8	58.23	-3	2.47	+4
3	5.14	+10	38.17	-6	58.19	+2	40.26	-9	58.37	-3	2.27	0
4	4.99	+14	38.46	-3	58.23	+4	40.55	-8	58.50	-3	2.07	-4
5	4.83	+15	38.75	+1	58.27	+5	40.84	-5	58.64	-2	1.88	-7
6	4.66	+13	39.04	+4	58.31	+6	41.14	-1	58.78	-1	1.69	-9
7	4.49	+9	39.32	+7	58.34	+5	41.44	+2	58.92	0	1.51	-9
sec δ, tg δ	87° 10' 30"	20.290	+20.265		81° 40' 30"	6.907	+6.834		82° 10' 0"	7.337	+7.269	
	40	20.310	+20.285		40	6.909	+6.836		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.
1920	17 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+86° 36'	in 0.01	18 <sup>h</sup> 57 <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	34.49	+10	53.82	0	29.23	+30	27.74	-6	20.53	+1	29.86	-9
1	34.50	+8	53.48	+4	28.88	+36	27.42	-2	20.43	+2	29.60	-6
2	34.52	+5	53.15	+7	28.56	+34	27.10	+2	20.33	+3	29.34	-2
3	34.54	0	52.82	+8	28.26	+25	26.78	+6	20.23	+3	29.08	+3
4	34.57	-4	52.48	+8	27.99	+10	26.46	+8	20.14	+3	28.81	+6
5	34.61	-8	52.15	+5	<sup>27.75</sup> <sub>27.52</sub>	<sup>-8</sup> <sub>-24</sub>	<sup>26.13</sup> <sub>25.81</sub>	<sup>+8</sup> <sub>+7</sub>	20.05	+1	28.55	+9
6	34.66	-10	51.82	+1	27.32	-36	25.49	+3	19.96	0	28.27	+9
7	34.71	-10	51.49	-3	27.15	-40	25.16	0	19.88	-2	28.00	+7
8	34.77	-8	51.16	-6	27.01	-36	24.84	-4	19.79	-3	27.72	+4
9	34.84	-5	50.84	-8	26.89	-27	24.51	-6	19.71	-4	27.44	+1
10	34.92	-2	50.51	-8	26.80	-14	24.19	-7	19.63	-4	27.15	-3
11	35.00	+1	50.19	-6	26.73	-1	23.86	-7	19.56	-3	26.86	-5
12	35.10	+4	49.86	-4	26.69	+11	23.54	-4	19.49	-2	26.57	-6
13	35.19	+5	49.54	0	26.67	+18	23.21	-2	19.42	0	26.27	-5
14	35.30	+5	49.22	+3	26.68	+22	22.88	+1	19.35	+1	25.97	-4
15	35.41	+4	48.91	+5	26.72	+21	22.56	+4	19.29	+2	25.67	-1
16	35.53	+3	48.59	+7	26.78	+16	22.23	+6	19.23	+3	25.37	+1
17	35.65	0	48.28	+7	26.87	+9	21.91	+7	19.17	+3	25.06	+3
18	35.79	-2	47.97	+7	26.99	0	21.59	+7	19.12	+2	24.75	+5
19	35.92	-4	47.66	+5	27.13	-9	21.27	+6	19.07	+2	24.44	+6
20	36.07	-5	47.35	+2	27.30	-15	20.95	+3	19.02	+1	24.13	+6
21	36.23	-5	47.05	-1	27.49	-19	20.63	0	18.97	0	23.81	+5
22	36.39	-4	46.75	-4	27.71	-18	20.31	-3	18.93	-2	23.49	+2
23	36.55	-1	46.45	-7	27.95	-12	19.99	-6	18.89	-2	23.17	-1
24	36.73	+2	46.16	-8	28.22	-1	19.67	-8	18.85	-3	22.85	-4
25	36.91	+5	45.87	-7	28.51	+12	19.36	-9	18.82	-2	22.53	-7
26	37.09	+8	45.58	-5	28.83	+25	19.05	-7	18.79	-1	22.20	-9
27	37.28	+9	45.30	-1	29.17	+33	18.73	-4	18.76	0	21.88	-9
28	37.48	+9	45.02	+3	29.54	+35	18.42	0	18.74	+2	21.55	-7
29	37.68	+6	44.74	+6	29.93	+30	18.11	+5	18.72	+3	21.23	-4
30	37.89	+2	44.47	+8	30.34	+18	17.81	+7	18.70	+3	20.90	+1
31	38.11	-2	44.20	+8	30.78	+1	17.51	+9	18.68	+3	20.57	+5
Febr. 1	38.33	-6	43.94	+6	31.24	-16	17.21	+8	18.67	+2	20.24	+8
2	38.56	-9	43.68	+3	31.73	-30	16.91	+5	<sup>18.66</sup> <sub>18.66</sub>	<sup>+1</sup> <sub>+1</sub>	<sup>19.91</sup> <sub>19.58</sub>	<sup>+9</sup> <sub>+8</sub>
3	38.80	-9	43.42	-1	32.24	-37	16.61	+1	18.66	-3	19.25	+5
4	39.04	-8	43.17	-5	32.77	-36	16.32	-3	18.66	-4	18.92	+1
5	39.28	-6	42.92	-8	33.33	-29	16.03	-6	18.66	-4	18.59	-2
6	39.53	-3	42.68	-8	33.91	-18	15.74	-7	18.67	-3	18.26	-5
sec δ, tg δ	86° 36' 40"	16.917	+16.887	89° 1' 20"	58.601	+58.592	82° 14' 20"	7.405	+7.337			
	50	16.931	+16.901	30	58.768	+58.759	30	7.408	+7.340			



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.						
1920	0 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+85° 49'	in 0.01	1 <sup>h</sup> 31 <sup>m</sup>	in 0.01	+88° 52'	in 0.01	4 <sup>h</sup> 11 <sup>m</sup>	in 0.01	+85° 20'	in 0.01						
Febr. 6	31.64	-5	66.15	+7	47.19	-18	62.07	+8	9.82	+1	53.97	+9						
7	31.39	-7	66.00	+4	46.16	-23	61.96	+5	9.58	-2	54.08	+8						
8	31.14	-7	65.84	0	45.13	-23	61.85	+1	9.34	-4	54.18	+5						
9	30.89	-5	65.67	-3	44.12	-18	61.73	-2	9.10	-5	54.27	+1						
10	30.64	-3	65.50	-5	43.11	-10	61.60	-5	8.85	-5	54.36	-2						
11	30.40	0	65.32	-6	42.12	0	61.47	-6	8.61	-4	54.44	-5						
12	30.16	+3	65.14	-5	41.13	+9	61.33	-6	8.36	-2	54.51	-7						
13	29.93	+5	64.95	-4	40.16	+17	61.19	-5	8.11	0	54.58	-7						
14	29.70	+6	64.76	-2	39.19	+22	61.04	-3	7.86	+2	54.64	-7						
15	29.47	+6	64.56	0	38.23	+23	60.88	-1	7.61	+4	54.69	-5						
16	29.24	+6	64.36	+2	37.28	+21	60.72	+1	7.35	+5	54.74	-2						
17	29.02	+4	64.15	+4	36.35	+15	60.55	+3	7.10	+5	54.79	0						
18	28.80	+1	63.94	+5	35.42	+5	60.38	+5	6.85	+4	54.83	+3						
19	28.59	-2	63.72	+5	34.51	-7	60.21	+6	6.59	+2	54.86	+6						
20	28.38	-5	63.50	+4	33.61	-18	60.03	+4	6.34	-1	54.88	+7						
21	28.17	-7	63.27	+1	32.72	-26	59.84	+2	6.08	-4	54.90	+6						
22	27.97	-8	63.04	-2	31.85	-30	59.65	-1	5.83	-7	54.91	+4						
23	27.77	-8	62.80	-6	30.99	-27	59.46	-5	5.57	-9	54.92	+1						
24	27.58	-5	62.56	-8	30.14	-18	59.26	-8	5.32	-8	54.92	-3						
25	27.39	-1	62.32	-9	29.31	-5	59.05	-9	5.06	-6	54.91	-6						
26	27.21	+3	62.07	-8	28.49	+10	58.84	-8	4.80	-3	54.90	-8						
27	27.03	+6	61.82	-5	27.68	+22	58.62	-6	4.54	+1	54.88	-9						
28	26.85	+8	61.56	0	26.89	+29	58.40	-2	4.28	+5	54.86	-6						
29	26.68	+8	61.30	+4	26.11	+29	58.17	+3	4.02	+8	54.83	-3						
März 1	26.51	+6	61.03	+8	25.35	+22	57.94	+7	3.76	+9	54.79	+2						
2	26.35	+3	60.77	+10	24.61	+11	57.70	+9	3.51	+8	54.75	+6						
3	26.19	-1	60.49	+10	23.88	-3	57.46	+10	3.25	+5	54.70	+9						
4	26.04	-4	60.22	+8	23.17	-15	57.22	+8	2.99	+2	54.64	+9						
5	25.90	-6	59.94	+5	22.48	-23	56.97	+6	2.74	-1	54.58	+8						
6	25.75	-7	59.66	+1	21.80	-25	56.72	+2	2.49	-4	54.51	+6						
7	25.62	-6	59.38	-2	21.14	-21	56.46	-1	2.24	-5	54.44	+2						
8	25.49	-4	59.10	-4	20.49	-14	56.20	-4	1.99	-5	54.36	-1						
9	25.36	-1	58.81	-6	19.87	-4	55.94	-6	1.74	-4	54.27	-4						
10	25.24	+2	58.52	-6	19.26	+6	55.67	-6	1.49	-2	54.18	-6						
11	25.13	+4	58.23	-5	18.67	+14	55.40	-6	1.24	-1	54.08	-7						
12	25.02	+6	57.93	-3	18.11	+20	55.13	-4	1.00	+2	53.97	-7						
13	24.91	+6	57.63	-1	17.56	+23	54.85	-2	0.75	+3	53.86	-6						
14	24.81	+6	57.33	+1	17.02	+22	54.57	0	0.51	+5	53.75	-4						
sec δ, tg δ	85° 49' 60"	13.763	+13.727	88° 52' 50"	51.186	+51.176	85° 20' 50"	12.328	+12.287	70	13.772	+13.736	60	51.313	+51.303	60	12.335	+12.295

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.
1920	7 <sup>h</sup> 3 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 25 <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
Febr. 6	64.49	+ 9	39.32	+ 7	58.34	+ 5	41.44	+ 2	58.92	0	61.51	- 9
7	64.30	+ 4	39.60	+ 7	58.37	+ 3	41.73	+ 4	59.07	+ 1	61.33	- 7
8	64.11	- 1	39.88	+ 7	58.40	+ 1	42.04	+ 6	59.21	+ 2	61.16	- 4
9	63.91	- 5	40.16	+ 4	58.43	- 1	42.34	+ 5	59.36	+ 2	61.00	0
10	63.70	- 8	40.43	+ 1	58.45	- 2	42.64	+ 4	59.51	+ 1	60.84	+ 3
11	63.49	- 9	40.70	- 2	58.47	- 3	42.95	+ 2	59.66	+ 1	60.69	+ 5
12	63.26	- 8	40.97	- 4	58.48	- 4	43.25	0	59.80	0	60.55	+ 7
13	63.03	- 6	41.23	- 6	58.49	- 3	43.56	- 3	59.95	- 1	60.41	+ 7
14	62.79	- 3	41.49	- 7	58.50	- 3	43.86	- 5	60.11	- 1	60.27	+ 7
15	62.55	+ 1	41.75	- 7	58.51	- 1	44.17	- 6	60.26	- 2	60.14	+ 5
16	62.29	+ 4	42.00	- 5	58.51	0	44.47	- 6	60.41	- 2	60.02	+ 2
17	62.03	+ 7	42.25	- 3	58.51	+ 2	44.78	- 5	60.57	- 2	59.90	- 1
18	61.77	+ 8	42.50	0	58.51	+ 3	45.08	- 3	60.72	- 1	59.79	- 4
19	61.49	+ 7	42.74	+ 4	58.51	+ 3	45.39	0	60.88	0	59.69	- 6
20	61.21	+ 5	42.98	+ 6	58.50	+ 3	45.70	+ 4	61.04	+ 1	59.59	- 7
21	60.92	0	43.21	+ 8	58.49	+ 2	46.00	+ 7	61.20	+ 2	59.50	- 7
22	60.62	- 5	43.44	+ 8	58.47	0	46.31	+ 9	61.36	+ 3	59.42	- 4
23	60.32	- 10	43.66	+ 7	58.45	- 2	46.61	+ 9	61.52	+ 3	59.35	- 1
24	60.02	- 13	43.88	+ 3	58.43	- 4	46.91	+ 7	61.68	+ 3	59.28	+ 3
25	59.71	- 13	44.09	- 1	58.40	- 5	47.22	+ 4	61.84	+ 2	59.21	+ 7
26	59.39	- 11	44.30	- 5	58.38	- 5	47.52	0	62.01	0	59.16	+ 9
27	59.07	- 6	44.51	- 8	58.35	- 4	47.81	- 4	62.17	- 1	59.11	+ 8
28	58.74	+ 1	44.71	- 8	58.32	- 1	48.11	- 7	62.33	- 2	59.07	+ 6
29	58.40	+ 7	44.91	- 7	58.28	+ 1	48.41	- 9	62.49	- 3	59.03	+ 2
März 1	58.06	+ 12	45.10	- 4	58.24	+ 3	48.71	- 8	62.65	- 3	59.00	- 2
2	57.71	+ 14	45.28	- 1	58.20	+ 5	49.00	- 6	62.82	- 2	58.98	- 6
3	57.35	+ 14	45.46	+ 3	58.15	+ 6	49.29	- 2	62.98	- 1	58.96	- 8
4	57.00	+ 10	45.64	+ 6	58.10	+ 5	49.58	+ 1	63.14	0	58.95	- 9
5	56.63	+ 6	45.81	+ 7	58.05	+ 4	49.87	+ 4	63.30	+ 1	58.95	- 8
6	56.27	0	45.97	+ 7	58.00	+ 2	50.15	+ 6	63.47	+ 2	58.96	- 5
7	55.90	- 4	46.13	+ 5	57.94	0	50.44	+ 6	63.63	+ 2	58.97	- 2
8	55.52	- 7	46.29	+ 3	57.89	- 2	50.72	+ 5	63.79	+ 2	58.98	+ 1
9	55.14	- 9	46.44	0	57.82	- 3	51.00	+ 3	63.95	+ 1	59.01	+ 4
10	54.76	- 8	46.58	- 3	57.76	- 4	51.28	0	64.11	+ 1	59.04	+ 6
11	54.37	- 7	46.72	- 5	57.70	- 4	51.55	- 2	64.27	0	59.08	+ 7
12	53.98	- 4	46.85	- 7	57.63	- 3	51.82	- 4	64.43	- 1	59.12	+ 7
13	53.58	- 1	46.98	- 7	57.56	- 2	52.09	- 5	64.59	- 1	59.17	+ 6
14	53.18	+ 2	47.10	- 6	57.48	0	52.36	- 6	64.75	- 2	59.22	+ 3
sec δ, tg δ	87° 10' 40"	20.310	+ 20.285		81° 40' 40"	6.909	+ 6.836		82° 9' 60"	7.337	+ 7.269	
	50	20.330	+ 20.305		50	6.911	+ 6.839		70	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.
1920	17 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+86° 36'	in 0.01	18 <sup>h</sup> 57 <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	39.53	-3	42.68	-8	33.91	-18	15.74	-7	18.67	-3	18.26	-5
7	39.79	+1	42.44	-7	34.51	-5	15.46	-7	18.67	-2	17.93	-6
8	40.05	+3	42.21	-5	35.13	+7	15.18	-6	18.69	-1	17.60	-6
9	40.31	+5	41.98	-2	35.78	+16	14.90	-3	18.70	+1	17.27	-5
10	40.58	+5	41.76	+1	36.45	+21	14.63	0	18.72	+2	16.94	-2
11	40.86	+5	41.54	+4	37.13	+22	14.36	+3	18.74	+2	16.62	0
12	41.14	+3	41.32	+6	37.84	+18	14.09	+5	18.77	+3	16.29	+3
13	41.43	+1	41.11	+7	38.58	+12	13.83	+7	18.80	+3	15.96	+5
14	41.72	-1	40.91	+7	39.33	+4	13.57	+7	18.83	+2	15.64	+6
15	42.01	-3	40.71	+6	40.11	-5	13.32	+6	18.87	+1	15.32	+6
16	42.31	-4	40.52	+3	40.90	-13	13.07	+4	18.90	0	15.00	+5
17	42.61	-5	40.33	0	41.72	-18	12.82	+1	18.94	-1	14.68	+3
18	42.92	-4	40.15	-3	42.55	-20	12.58	-2	18.98	-2	14.36	0
19	43.23	-3	39.97	-6	43.40	-16	12.34	-5	19.03	-3	14.04	-3
20	43.55	0	39.80	-8	44.27	-7	12.11	-8	19.08	-3	13.72	-6
21	43.87	+3	39.63	-8	45.15	+5	11.88	-8	19.14	-2	13.41	-8
22	44.19	+6	39.47	-6	46.05	+18	11.66	-8	19.19	-1	13.10	-9
23	44.52	+8	39.32	-3	46.97	+28	11.44	-5	19.25	+1	12.79	-8
24	44.85	+9	39.17	+1	47.91	+33	11.22	-1	19.32	+2	12.49	-5
25	45.18	+7	39.03	+5	48.86	+31	11.01	+3	19.38	+3	12.18	-1
26	45.51	+4	38.89	+8	49.83	+22	10.81	+7	19.45	+3	11.88	+3
27	45.85	0	38.76	+9	50.82	+7	10.61	+8	19.52	+3	11.59	+7
28	46.19	-4	38.64	+7	51.82	-10	10.41	+8	19.59	+1	11.29	+9
29	46.53	-8	38.52	+4	52.84	-24	10.22	+6	19.67	0	11.00	+8
März 1	46.88	-9	38.41	0	53.87	-34	10.03	+3	19.75	-2	10.71	+6
2	47.22	-9	38.30	-4	54.91	-36	9.85	-1	19.83	-3	10.43	+3
3	47.58	-7	38.21	-7	55.97	-31	9.68	-5	19.91	-4	10.15	-1
4	47.93	-4	38.11	-8	57.04	-21	9.51	-7	20.00	-3	9.87	-4
5	48.28	0	38.03	-8	58.13	-8	9.35	-8	20.09	-3	9.60	-6
6	48.64	+3	37.95	-6	59.22	+4	9.19	-7	20.18	-1	9.33	-6
7	49.00	+5	37.87	-3	60.33	+14	9.04	-4	20.28	0	9.06	-5
8	49.35	+5	37.80	0	61.45	+20	8.89	-1	20.38	+1	8.80	-3
9	49.72	+5	37.74	+3	62.58	+22	8.75	+2	20.48	+2	8.54	-1
10	50.08	+4	37.68	+6	63.72	+20	8.61	+4	20.58	+3	8.28	+2
11	50.45	+2	37.63	+7	64.87	+15	8.48	+6	20.69	+3	8.03	+4
12	50.81	0	37.59	+7	66.03	+7	8.36	+7	20.79	+2	7.79	+5
13	51.18	-2	37.56	+6	67.20	-1	8.24	+7	20.91	+1	7.54	+6
14	51.55	-3	37.53	+4	68.38	-9	8.13	+5	21.02	+1	7.31	+6
sec δ, tg δ	86° 36' 30"	16.903	+16.873		89° 1' 10"	58.435	+58.426		82° 14' 10"	7.402	+7.335	
	40	16.917	+16.887		20	58.601	+58.592		20	7.405	+7.337	

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.
1920	0 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+85° 49'	in 0.01	1 <sup>h</sup> 31 <sup>m</sup>	in 0.01	+88° 52'	in 0.01	4 <sup>h</sup> 10 <sup>m</sup>	in 0.01	+85° 20'	in 0.01
März 14	24.81	+6	57.33	+1	17.02	+22	54.57	0	60.51	+5	53.75	-4
15	24.72	+5	57.03	+3	16.51	+18	54.29	+2	60.27	+5	53.63	-1
16	24.63	+2	56.73	+5	16.01	+9	54.00	+4	60.03	+4	53.50	+2
17	24.55	-1	56.43	+5	15.54	-2	53.71	+5	59.80	+3	53.37	+5
18	24.47	-4	56.12	+4	15.08	-14	53.42	+5	59.56	0	53.24	+6
19	24.40	-7	55.81	+2	14.65	-24	53.13	+3	59.33	-3	53.10	+7
20	24.33	-8	55.50	-1	14.23	-29	52.83	0	59.10	-6	52.95	+5
21	24.27	-8	55.19	-4	13.84	-29	52.53	-3	58.87	-8	52.80	+2
22	24.21	-6	54.87	-7	13.46	-22	52.23	-7	58.65	-8	52.64	-1
23	24.16	-3	54.56	-9	13.11	-11	51.93	-8	58.43	-7	52.48	-5
24	24.12	+1	54.24	-8	12.77	+4	51.63	-8	58.22	-4	52.31	-8
25	24.08	+5	53.93	-6	12.46	+18	51.32	-6	58.00	0	52.14	-8
26	24.04	+8	53.61	-2	12.17	+28	51.01	-3	57.79	+4	51.96	-7
27	24.02	+8	53.30	+3	11.89	+31	50.70	+1	57.58	+7	51.78	-4
28	23.99	+7	52.98	+7	11.64	+26	50.39	+6	57.37	+9	51.59	0
29	23.98	+4	52.67	+9	11.40	+17	50.08	+9	57.17	+9	51.40	+4
30	23.97	0	52.35	+10	11.19	+3	49.77	+10	56.97	+7	51.20	+8
31	23.96	-3	52.03	+9	11.00	-10	49.45	+9	56.77	+3	51.00	+9
April 1	23.96	-6	51.72	+6	10.83	-20	49.14	+7	56.58	0	50.79	+9
2	23.97	-7	51.40	+3	10.69	-25	48.82	+3	56.39	-3	50.58	+7
3	23.98	-7	51.09	-1	10.56	-24	48.51	0	56.20	-5	50.36	+4
4	24.00	-5	50.77	-4	10.45	-17	48.19	-3	56.02	-5	50.14	0
5	24.03 24.06	-2 +1	50.46 50.14	-6 -6	10.37	-8	47.87	-5	55.84	-5	49.92	-3
6	24.09	+3	49.83	-6	10.30	+2	47.55	-6	55.67	-3	49.69	-6
7	24.13	+5	49.51	-4	10.26	+11	47.24	-6	55.49	-1	49.46	-7
8	24.18	+6	49.20	-2	10.23	+19	46.92	-5	55.33	+1	49.22	-7
9	24.23	+6	48.89	0	10.23	+22	46.60	-3	55.16	+3	48.98	-6
10	24.29	+5	48.58	+2	10.25	+22	46.28	-1	55.00	+4	48.74	-5
11	24.36	+3	48.27	+4	10.29	+19	45.97	+1	54.85	+5	48.49	-2
12	24.43	0	47.97	+4	10.36	+12	45.65	+3	54.69	+4	48.24	+1
13	24.50	-3	47.66	+4	10.44	+1	45.34	+5	54.55	+3	47.98	+4
14	24.58	-6	47.36	+3	10.54 10.67	-10 -21	45.02 44.71	+5 +4	54.41	+1	47.73	+6
15	24.67	-8	47.06	0	10.81	-28	44.40	+1	54.27	-2	47.47	+7
16	24.76	-8	46.76	-3	10.98	-30	44.08	-2	54.13	-5	47.21	+6
17	24.85	-7	46.46	-6	11.16	-27	43.77	-5	54.01	-7	46.95	+4
18	24.95	-4	46.17	-8	11.37	-16	43.46	-8	53.88	-9	46.68	0
19	25.06	0	45.88	-8	11.60	-2	43.15	-9	53.76	-8	46.41	-3
20	25.17	+4	45.59	-7	11.85	+13	42.84	-7	53.65	-5	46.14	-6
see δ, tg δ	85° 49' 50"	13.754	+13.718		88° 52' 40"	51.059	+51.049		85° 20' 50"	12.328	+12.287	
	60	13.763	+13.727		50	51.186	+51.176		60	12.335	+12.295	

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.
1920	7 <sup>h</sup> 3 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 25 <sup>m</sup>	in 0.01	+81° 40'	in 0.01	16 <sup>h</sup> 54 <sup>m</sup>	in 0.01	+82° 9'	in 0.01
März 14	53.18	+ 2	47.10	- 6	57.48	0	52.36	- 6	4.75	- 2	59.22	+ 3
15	52.78	+ 5	47.21	- 4	57.41	+ 1	52.62	- 5	4.90	- 2	59.29	0
16	52.38	+ 7	47.32	- 1	57.33	+ 2	52.88	- 3	5.06	- 1	59.36	- 3
17	51.97	+ 7	47.43	+ 2	57.25	+ 3	53.14	- 1	5.22	0	59.43	- 5
18	51.57	+ 6	47.52	+ 5	57.17	+ 3	53.39	+ 2	5.38	+ 1	59.51	- 7
19	51.15	+ 2	47.61	+ 7	57.08	+ 2	53.64	+ 5	5.53	+ 2	59.60	- 7
20	50.74	- 3	47.70	+ 8	56.99	+ 1	53.89	+ 8	5.69	+ 2	59.70	- 5
21	50.32	- 7	47.78	+ 7	56.90	- 1	54.13	+ 9	5.84	+ 3	59.80	- 2
22	49.90	- 11	47.85	+ 5	56.81	- 3	54.37	+ 8	6.00	+ 3	59.91	+ 2
23	49.49	- 13	47.92	+ 1	56.71	- 4	54.61	+ 5	6.15	+ 2	60.02	+ 5
24	49.07	- 11	47.98	- 3	56.61	- 5	54.84	+ 1	6.30	+ 1	60.14	+ 8
25	48.64	- 7	48.04	- 7	56.51	- 4	55.06	- 3	6.45	- 1	60.27	+ 9
26	48.22	- 1	48.09	- 8	56.41	- 2	55.29	- 7	6.60	- 2	60.40	+ 7
27	47.80	+ 5	48.13	- 8	56.31	0	55.50	- 8	6.74	- 3	60.53	+ 4
28	47.37	+ 11	48.17	- 6	56.21	+ 3	55.72	- 9	6.89	- 3	60.68	0
29	46.95	+ 14	48.20	- 2	56.10	+ 4	55.93	- 7	7.04	- 3	60.83	- 4
30	46.52	+ 14	48.23	+ 2	55.99	+ 5	56.13	- 4	7.18	- 2	60.98	- 8
31	46.09	+ 12	48.25	+ 5	55.88	+ 5	56.33	0	7.32	- 1	61.14	- 9
April 1	45.66	+ 8	48.26	+ 7	55.76	+ 4	56.53	+ 3	7.46	+ 1	61.31	- 8
2	45.24	+ 2	48.26	+ 7	55.65	+ 2	56.72	+ 5	7.60	+ 1	61.48	- 6
3	44.81	- 3	48.26	+ 6	55.54	0	56.91	+ 6	7.74	+ 2	61.66	- 3
4	44.38	- 6	48.26	+ 4	55.42	- 1	57.09	+ 5	7.87	+ 2	61.84	0
5	43.95	- 9	48.25	+ 1	55.30	- 3	57.27	+ 4	8.01	+ 1	62.03	+ 4
6	43.53	- 9	48.23	- 2	55.18	- 4	57.44	+ 2	8.14	+ 1	62.22	+ 6
7	43.10	- 8	48.21	- 5	55.06	- 4	57.61	- 1	8.27	0	62.42	+ 7
8	42.68	- 6	48.18	- 6	54.94	- 3	57.77	- 3	8.39	- 1	62.62	+ 7
9	42.25	- 2	48.14	- 7	54.82	- 2	57.92	- 5	8.52	- 1	62.83	+ 6
10	41.83	+ 1	48.10	- 6	54.70	- 1	58.07	- 5	8.64	- 2	63.04	+ 4
11	41.41	+ 4	48.05	- 5	54.57	0	58.22	- 5	8.77	- 2	63.26	+ 1
12	40.99	+ 6	48.00	- 2	54.44	+ 2	58.36	- 4	8.88	- 1	63.48	- 1
13	40.58	+ 7	47.94	+ 1	54.32	+ 3	58.50	- 2	9.00	- 1	63.71	- 4
14	40.16	+ 6	47.88	+ 4	54.19	+ 3	58.63	+ 1	9.12	0	63.94	- 6
15	39.75	+ 3	47.81	+ 7	54.06	+ 3	58.76	+ 5	9.23	+ 1	64.17	- 7
16	39.34	- 1	47.73	+ 8	53.93	+ 1	58.88	+ 7	9.34	+ 2	64.41	- 6
17	38.93	- 6	47.65	+ 8	53.80	0	58.99	+ 9	9.46	+ 3	64.65	- 3
18	38.52	- 10	47.56	+ 6	53.66	- 2	59.10	+ 9	9.57	+ 3	64.90	0
19	38.12	- 12	47.47	+ 2	53.53	- 4	59.21	+ 7	9.67	+ 3	65.15	+ 4
20	37.72	- 13	47.37	- 2	53.40	- 5	59.31	+ 3	9.77	+ 1	65.41	+ 7
sec δ, tg δ	87° 10' 40"	20.310	+20.285		81° 40' 50"	6.911	+6.839		82° 9' 60"	7.337	+7.269	
	50	20.330	+20.305		60	6.914	+6.841		70	7.340	+7.271	

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.
1920	17 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+86° 36'	in 0.01	18 <sup>h</sup> 58 <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 14	51.55	-3	37.53	+4	8.38	-9	8.13	+5	21.02	+1	7.31	+6
15	51.91	-5	37.50	+2	9.56	-16	8.03	+3	21.13	0	7.08	+4
16	52.28	-4	37.48	-2	10.75	-19	7.93	-1	21.25	-2	6.85	+1
17	52.65	-3	37.47	-5	11.95	-17	7.84	-4	21.37	-2	6.62	-2
18	53.01	-1	37.46	-7	13.16	-11	7.75	-7	21.48	-3	6.41	-5
19	53.38	+2	37.46	-8	14.37	0	7.67	-8	21.61	-2	6.19	-7
20	53.74	+5	37.47	-7	15.59	+12	7.59	-8	21.73	-1	5.98	-9
21	54.11	+7	37.49	-4	16.81	+23	7.52	-6	21.85	0	5.78	-8
22	54.47	+8	37.51	-1	18.04	+30	7.46	-3	21.98	+2	5.58	-7
23	54.84	+7	37.54	+3	19.27	+31	7.40	+1	22.11	+3	5.39	-2
24	55.21	+5	37.57	+6	20.51	+24	7.35	+5	22.25	+3	5.20	+2
25	55.57	+1	37.61	+8	21.75	+12	7.31	+8	22.38	+3	5.02	+6
26	55.93	-3	37.66	+8	22.99	-4	7.27	+9	22.52	+2	4.84	+8
27	56.29	-7	37.71	+6	24.24	-20	7.24	+7	22.66	0	4.67	+9
28	56.65	-9	37.77	+2	25.48	-32	7.21	+4	22.80	-1	4.51	+8
29	57.01	-9	37.83	-2	26.73	-37	7.19	0	22.94	-3	4.35	+5
30	57.37	-8	37.90	-6	27.98	-34	7.18	-4	23.07	-4	4.19	+1
31	57.73	-5	37.98	-8	29.23	-26	7.17	-6	23.21	-4	4.04	-3
April 1	58.08	-1	38.06	-8	30.48	-13	7.17	-8	23.36	-3	3.90	-5
2	58.44	+2	38.15	-7	31.72	0	7.17	-7	23.50	-2	3.76	-6
3	58.79	+4	38.25	-4	32.97	+11	7.18	-5	23.65	0	3.63	-6
4	59.13	+5	38.35	-1	34.22	+19	7.20	-2	23.80	+1	3.51	-4
5	59.48	+5	38.46	+2	35.46	+23	7.22	+1	23.95	+2	3.39	-2
6	59.82	+5	38.57	+5	36.71	+22	7.25	+4	24.10	+3	3.27	+1
7	60.16	+3	38.69	+7	37.95	+17	7.29	+6	24.26	+3	3.17	+3
8	60.50	+1	38.82	+7	39.18	+11	7.33	+7	24.41	+3	3.07	+5
9	60.83	-1	38.95	+7	40.42	+2	7.38	+7	24.57	+2	2.97	+6
10	61.16	-3	39.09	+5	41.64	-6	7.44	+5	24.73	+1	2.88	+6
11	61.49	-4	39.23	+3	42.86	-12	7.50	+3	24.89	0	2.80	+5
12	61.81	-4	39.38	0	44.08	-16	7.57	0	25.04	-1	2.73	+2
13	62.14	-3	39.53	-4	45.29	-17	7.64	-3	25.20	-2	2.66	-1
14	62.45	-2	39.69	-6	46.50	-12	7.72	-6	25.36	-2	2.59	-4
15	62.77	+1	39.85	-8	47.70	-3	7.80	-8	25.52	-2	2.53	-7
16	63.08	+4	40.02	-8	48.90	+8	7.89	-8	25.68	-1	2.48	-9
17	63.39	+7	40.20	-6	50.08	+20	7.99	-7	25.84	0	2.43	-9
18	63.69	+8	40.38	-2	51.26	+29	8.09	-4	26.00	+1	2.39	-8
19	63.99	+8	40.56	+2	52.43	+32	8.20	0	26.16	+2	2.36	-4
20	64.29	+6	40.75	+5	53.59	+27	8.31	+4	26.32	+3	2.34	0
sec $\delta$ , tg $\delta$	86° 36' 30''	16.903	+16.873		89° 1' 0''	58.270	+58.261		82° 14' 0''	7.400	+7.332	
	40	16.917	+16.887		10	58.435	+58.426		10	7.402	+7.335	

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.
1920	0 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+85° 49'	in 0.01	1 <sup>h</sup> 31 <sup>m</sup>	in 0.01	+88° 52'	in 0.01	4 <sup>h</sup> 10 <sup>m</sup>	in 0.01	+85° 20'	in 0.01
April 20	25.17	+4	45.59	-7	11.85	+13	42.84	-7	53.65	-5	46.14	-6
21	25.29	+7	45.30	-3	12.11	+24	42.54	-5	53.54	-2	45.86	-8
22	25.41	+8	45.02	+1	12.40	+30	42.23	0	53.43	+3	45.58	-8
23	25.54	+8	44.74	+6	12.71	+29	41.93	+4	53.33	+6	45.30	-5
24	25.67	+6	44.46	+9	13.03	+22	41.63	+8	53.23	+9	45.02	-1
25	25.81	+2	44.19	+10	13.38	+9	41.33	+10	53.14	+9	44.73	+3
26	25.95	-1	43.92	+10	13.74	-4	41.03	+10	53.05	+8	44.45	+7
27	26.10	-5	43.65	+8	14.13	-16	40.73	+8	52.97	+5	44.16	+9
28	26.25	-6	43.38	+4	14.53	-23	40.44	+5	52.89	+2	43.87	+9
29	26.41	-7	43.12	0	14.95	-24	40.15	+1	52.81	-1	43.58	+8
30	26.57	-6	42.86	-3	15.39	-20	39.87	-2	52.74	-4	43.29	+5
Mai 1	26.74	-3	42.60	-5	15.86	-11	39.58	-5	52.68	-5	42.99	+2
2	26.91	0	42.35	-6	16.34	-1	39.30	-6	52.62	-5	42.69	-2
3	27.09	+2	42.10	-6	16.84	+8	39.02	-6	52.56	-4	42.40	-5
4	27.27	+5	41.86	-5	17.35	+16	38.74	-5	52.51	-2	42.10	-6
5	27.45	+6	41.61	-3	17.89	+21	38.47	-4	52.47	0	41.80	-7
6	27.64	+6	41.38	-1	18.44	+23	38.20	-2	52.43	+2	41.50	-7
7	27.83	+6	41.14	+1	19.00	+21	37.93	+1	52.39	+4	41.20	-5
8	28.03	+4	40.91	+3	19.59	+14	37.67	+3	52.36	+5	40.89	-3
9	28.23	+1	40.68	+4	20.19	+5	37.41	+4	52.34	+4	40.59	0
10	28.43	-2	40.46	+4	20.81	-6	37.15	+4	52.32	+3	40.28	+3
11	28.64	-5	40.25	+3	21.45	-17	36.90	+4	52.31	+1	39.98	+5
12	28.85	-7	40.03	0	22.10	-26	36.65	+2	52.30	-1	39.67	+6
13	29.07	-9	39.83	-3	22.77	-31	36.41	-1	52.29	-4	39.37	+6
14	29.29	-8	39.62	-6	23.45	-30	36.17	-5	52.29	-7	39.06	+5
15	29.51	-6	39.42	-8	24.15	-22	35.93	-7	52.30	-9	38.76	+1
16	29.74	-2	39.23	-9	24.87	-9	35.70	-9	52.31	-9	38.45	-2
17	29.97	+2	39.04	-8	25.60	+6	35.47	-8	52.32	-7	38.15	-6
18	30.21	+6	38.85	-5	26.35	+19	35.24	-6	52.34	-4	37.84	-8
19	30.45	+8	38.67	-1	27.11	+29	35.02	-2	52.37	0	37.54	-8
20	30.69	+8	38.49	+4	27.88	+31	34.80	+3	52.40	+5	37.24	-7
21	30.93	+7	38.32	+8	28.67	+26	34.58	+7	52.43	+8	36.94	-3
22	31.18	+4	38.15	+10	29.47	+15	34.37	+10	52.47	+9	36.64	+1
23	31.43	0	37.99	+11	30.29	+2	34.16	+11	52.52	+9	36.34	+5
24	31.69	-3	37.83	+9	31.12	-11	33.96	+10	52.57 52.62	+7 +4	36.04 35.74	+8 +10
25	31.94	-6	37.68	+6	31.96	-20	33.76	+7	52.68	0	35.44	+9
26	32.20	-7	37.54	+2	32.82	-23	33.57	+3	52.75	-3	35.14	+7
27	32.47	-6	37.40	-1	33.68	-21	33.38	0	52.82	-5	34.84	+3
sec δ, tg δ	85° 49' 40"	13.745	+13.708		88° 52' 30"	50.933	+50.923		85° 20' 40"	12.321	+12.280	
	50	13.754	+13.718		40	51.059	+51.049		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.
1920	7 <sup>h</sup> 3 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 25 <sup>m</sup>	in 0.01	+81° 40'	in 0.01	16 <sup>h</sup> 54 <sup>m</sup>	in 0.01	+82° 10'	in 0.01
April 20	37.72	-13	47.37	-2	53.40	-5	59.31	+3	9.77	+1	5.41	+7
21	37.32	-9	47.26	-5	53.26	-4	59.41	-1	9.87	0	5.67	+8
22	36.93	-3	47.15	-8	53.13	-3	59.49	-5	9.97	-2	5.93	+8
23	36.54	+3	47.04	-9	52.99	-1	59.58	-8	10.07	-3	6.20	+5
24	36.15	+9	46.91	-7	52.85	+2	59.65	-9	10.16	-3	6.47	+1
25	35.77	+14	46.79	-4	52.72	+4	59.72	-8	10.25	-3	6.75	-3
26	35.39	+15	46.66	0	52.58	+5	59.79	-6	10.34	-2	7.02	-7
27	35.01	+14	46.52	+4	52.44	+6	59.85	-2	10.42	-1	7.31	-9
28	34.64	+10	46.38	+6	52.31	+5	59.90	+1	10.50	0	7.59	-9
29	34.27	+5	46.23	+7	52.17	+3	59.95	+4	10.58	+1	7.88	-7
30	33.90	0	46.08	+7	52.04	+1	59.99	+6	10.66	+2	8.17	-4
Mai 1	33.54	-5	45.92	+5	51.90	-1	60.03	+6	10.74	+2	8.46	-1
2	33.19	-8	45.76	+2	51.76	-2	60.06	+4	10.81	+2	8.75	+3
3	32.84	-9	45.59	-1	51.63	-3	60.08	+2	10.88	+1	9.05	+5
4	32.49	-8	45.41	-4	51.49	-4	60.10	0	10.95	0	9.35	+7
5	32.15	-6	45.24	-6	51.35	-4	60.12	-2	11.01	0	9.65	+7
6	31.82	-3	45.05	-7	51.21	-3	60.12	-4	11.08	-1	9.96	+7
7	31.49	0	44.86	-7	51.07	-2	60.12	-5	11.14	-1	10.27	+5
8	31.16	+3	44.67	-5	50.93	0	60.12	-5	11.20	-2	10.58	+2
9	30.84	+5	44.47	-3	50.79	+1	60.11	-4	11.25	-1	10.89	0
10	30.52	+6	44.27	0	50.65	+2	60.09	-2	11.30	-1	11.21	-3
11	30.21	+6	44.06	+3	50.52	+3	60.07	+1	11.35	0	11.52	-5
12	29.91	+4	43.86	+6	50.38	+3	60.04	+4	11.40	+1	11.84	-7
13	29.61	0	43.64	+8	50.25	+2	60.01	+7	11.44	+2	12.16	-7
14	29.32	-5	43.42	+9	50.12	0	59.97	+9	11.48	+3	12.48	-5
15	29.04	-9	43.20	+7	49.98	-2	59.93	+9	11.52	+3	12.80	-1
16	28.76	-13	42.96	+4	49.85	-4	59.88	+8	11.55	+3	13.13	+2
17	28.48	-14	42.74	0	49.72	-5	59.82	+5	11.58	+2	13.45	+6
18	28.21	-11	42.51	-4	49.58	-5	59.76	+1	11.61	+1	13.77	+8
19	27.95	-6	42.27	-7	49.45	-4	59.70	-4	11.64	-1	14.10	+8
20	27.69	0	42.03	-9	49.32	-2	59.63	-7	11.66	-2	14.43	+6
21	27.44	+7	41.78	-8	49.19	+1	59.55	-9	11.69	-3	14.76	+3
22	27.20	+13	41.54	-5	49.06	+3	59.47	-9	11.70	-3	15.09	-1
23	26.96	+16	41.28	-2	48.93	+5	59.38	-7	11.72	-3	15.42	-5
24	26.73	+16	41.03	+2	48.80	+6	59.29	-4	11.73	-2	15.75	-8
25	26.51	+13	40.77	+5	48.67	+5	59.19	0	11.74	-1	16.08	-9
26	26.29	+8	40.51	+7	48.55	+4	59.09	+3	11.75	+1	16.41	-8
27	26.08	+2	40.24	+7	48.43	+2	58.98	+5	11.76	+1	16.74	-6
sec δ, tg δ	87° 10' 40"	20.310	+20.285		81° 40' 50"	6.911	+6.839		82° 10' 10"	7.340	+7.271	
	50	20.330	+20.305		60	6.914	+6.841		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.
1920	17 <sup>h</sup> 58 <sup>m</sup>	in 0.01	+86° 36'	in 0.01	18 <sup>h</sup> 58 <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 20	4.29	+ 6	40.75	+ 5	53.59	+27	8.3I	+ 4	26.32	+ 3	2.34	0
21	4.58	+ 2	40.95	+ 8	54.75	+17	8.43	+ 7	26.48	+ 3	2.32	+ 4
22	4.87	- 2	41.14	+ 8	55.89	+ 1	8.55	+ 8	26.64	+ 2	2.30	+ 8
23	5.15	- 6	41.35	+ 7	57.03	-16	8.68	+ 8	26.81	+ 1	2.30	+ 9
24	5.43	- 9	41.56	+ 4	58.15	-29	8.82	+ 6	26.97	- 1	2.30	+ 9
25	5.70	-10	41.77	0	59.26	-38	8.96	+ 2	27.13	- 2	2.30	+ 6
26	5.97	- 9	41.98	- 4	60.36	-38	9.10	- 2	27.29	- 3	2.31	+ 3
27	6.24	- 6	42.21	- 7	61.45	-32	9.25	- 5	27.46	- 4	2.33	- 1
28	6.50	- 3	42.43	- 8	62.53	-20	9.41	- 7	27.62	- 3	2.35	- 4
29	6.76	0	42.66	- 7	63.59	- 6	9.57	- 7	27.78	- 2	2.38	- 6
Mai 30	7.01	+ 3	42.90	- 5	64.64	+ 7	9.74	- 6	27.94	- 1	2.42	- 6
1	7.26	+ 5	43.14	- 2	65.69	+16	9.91	- 3	28.10	0	2.46	- 5
2	7.50	+ 5	43.38	+ 1	66.72	+22	10.09	0	28.27	+ 2	2.51	- 3
3	7.73	+ 5	43.63	+ 4	67.73	+22	10.27	+ 3	28.43	+ 2	2.56	0
4	7.96	+ 3	43.88	+ 6	68.74	+19	10.46	+ 5	28.59	+ 3	2.62	+ 2
5	8.19	+ 1	44.14	+ 7	69.73	+13	10.65	+ 6	28.75	+ 3	2.69	+ 4
6	8.41	0	44.39	+ 7	70.70	+ 5	10.85	+ 7	28.91	+ 2	2.76	+ 5
7	8.62	- 2	44.66	+ 6	71.66	- 3	11.05	+ 6	29.07	+ 1	2.84	+ 6
8	8.83	- 4	44.92	+ 4	72.60	-10	11.25	+ 4	29.23	0	2.92	+ 5
9	9.04	- 4	45.19	+ 1	73.53	-15	11.46	+ 2	29.39	- 1	3.01	+ 3
10	9.24	- 4	45.46	- 2	74.44	-16	11.68	- 2	29.55	- 2	3.11	0
11	9.43	- 2	45.74	- 5	75.34	-13	11.90	- 5	29.71	- 2	3.21	- 3
12	9.62	+ 1	46.02	- 7	76.22	- 5	12.12	- 7	29.87	- 3	3.32	- 6
13	9.80	+ 3	46.30	- 8	77.09	+ 6	12.35	- 8	30.02	- 2	3.43	- 8
14	9.97	+ 6	46.58	- 7	77.94	+18	12.58	- 8	30.18	- 1	3.55	- 9
15	10.14	+ 8	46.87	- 4	78.77	+28	12.82	- 6	30.33	+ 1	3.68	- 9
16	10.31	+ 9	47.16	0	79.59	+34	13.06	- 2	30.49	+ 2	3.81	- 6
17	10.46	+ 8	47.45	+ 4	80.38	+32	13.30	+ 2	30.64	+ 3	3.95	- 2
18	10.61	+ 4	47.74	+ 7	81.16	+23	13.55	+ 6	30.79	+ 3	4.09	+ 3
19	10.76	0	48.04	+ 8	81.92	+ 9	13.80	+ 8	30.94	+ 3	4.24	+ 6
20	10.90	- 4	48.34	+ 8	82.66	- 9	14.05	+ 9	31.09	+ 2	4.40	+ 9
21	11.03	- 8	48.64	+ 5	83.39	-25	14.31	+ 7	31.23	0	4.56	+ 9
22	11.15	-10	48.95	+ 1	84.10	-36	14.57	+ 4	31.38	- 2	4.72	+ 8
23	11.27	-10	49.25	- 3	84.79	-40	14.83	0	31.52	- 3	4.89	+ 5
24	11.39	- 8	49.56	- 6	85.46	-37	15.10	- 4	31.66	- 4	5.07	+ 1
25	11.50	- 5	49.87	- 8	86.11	-27	15.37	- 6	31.81	- 4	5.25	- 2
26	11.60	- 2	50.18	- 8	86.74	-14	15.64	- 7	31.95	- 3	5.43	- 5
27	11.70	+ 2	50.50	- 6	87.35	0	15.92	- 7	32.08	- 2	5.62	- 6
sec δ. tg δ	86° 36' 40"	16.917	+16.887	89° 1' 10"	58.435	+58.426	82° 14' 0"	7.400	+7.332			
	50	16.931	+16.901	20	58.601	+58.592	10	7.402	+7.335			

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.
1920	0 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+85° 49'	in 0.01	1 <sup>h</sup> 31 <sup>m</sup>	in 0.01	+88° 52'	in 0.01	4 <sup>h</sup> 10 <sup>m</sup>	in 0.01	+85° 20'	in 0.01
Mai 27	32.47	— 6	37.40	— 1	33.68	— 21	33.38	0	52.82	— 5	34.84	+ 3
28	32.74	— 4	37.26	— 4	34.56	— 15	33.20	— 3	52.89	— 5	34.54	0
29	33.01	— 1	37.13	— 5	35.45	— 5	33.02	— 5	52.97	— 4	34.25	— 3
30	33.28	+ 1	37.01	— 6	36.36	+ 5	32.85	— 6	53.05	— 3	33.95	— 6
31	33.55	+ 4	36.89	— 5	37.28	+ 14	32.68	— 5	53.14	— 1	33.66	— 7
Juni 1	33.83	+ 6	36.77	— 3	38.21	+ 20	32.52	— 4	53.23	+ 2	33.37	— 7
2	34.11	+ 6	36.66	— 1	39.15	+ 23	32.36	— 2	53.33	+ 3	33.09	— 6
3	34.39	+ 6	36.56	+ 1	40.10	+ 23	32.21	0	53.43	+ 5	32.80	— 4
4	34.68	+ 5	36.46	+ 3	41.06	+ 18	32.06	+ 2	53.54	+ 5	32.52	— 1
5	34.97	+ 2	36.36	+ 4	42.02	+ 10	31.92	+ 4	53.65	+ 4	32.24	+ 2
6	35.26	0	36.27	+ 4	43.00	— 1	31.78	+ 5	53.76	+ 2	31.96	+ 4
7	35.55	— 4	36.19	+ 3	43.99	— 12	31.64	+ 4	53.88	0	31.68	+ 6
8	35.84	— 6	36.12	+ 1	44.99	— 23	31.51	+ 2	54.00	— 3	31.40	+ 6
9	36.14	— 8	36.05	— 2	46.00	— 30	31.39	0	54.13	— 6	31.13	+ 5
10	36.44	— 9	35.98	— 5	47.01	— 31	31.27	— 4	54.27	— 9	30.86	+ 3
11	36.73	— 7	35.92	— 8	48.04	— 26	31.15	— 7	54.40	— 10	30.59	— 1
12	37.03	— 4	35.87	— 10	49.07	— 16	31.04	— 9	54.55	— 9	30.33	— 4
13	37.33	0	35.82	— 9	50.11	— 2	30.94	— 10	54.69	— 6	30.06	— 7
14	37.63	+ 4	35.77	— 7	51.15	+ 13	30.84	— 8	54.84	— 2	29.80	— 9
15	37.93	+ 7	35.73	— 4	52.21	+ 24	30.75	— 5	55.00	+ 2	29.55	— 8
16	38.24	+ 8	35.70	+ 1	53.27	+ 30	30.66	0	55.16	+ 6	29.29	— 5
17	38.54	+ 8	35.67	+ 6	54.34	+ 28	30.58	+ 5	55.32	+ 9	29.04	— 1
18	38.85	+ 5	35.65	+ 9	55.41	+ 20	30.50	+ 8	55.49	+ 9	28.79	+ 3
19	39.15	+ 2	35.63	+ 11	56.49	+ 7	30.43	+ 10	55.66	+ 8	28.54	+ 7
20	39.46	— 2	35.62	+ 10	57.58	— 6	30.36	+ 10	55.84	+ 5	28.30	+ 9
21	39.77	— 5	35.61	+ 8	58.67	— 18	30.30	+ 9	56.01	+ 2	28.06	+ 10
22	40.08	— 7	35.61	+ 4	59.77	— 22	30.25	+ 5	56.20	— 1	27.82	+ 8
23	40.38	— 6	35.62	+ 1	60.87	— 23	30.20	+ 2	56.38	— 4	27.59	+ 5
24	40.69	— 5	35.63	— 2	61.98	— 17	30.16	— 2	56.57	— 4	27.36	+ 2
25	41.00	— 2	35.65	— 4	63.09	— 8	30.12	— 4	56.76	— 4	27.13	— 2
26	41.31	+ 1	35.67	— 5	64.20	+ 2	30.09	— 5	56.96	— 3	26.91	— 5
27	41.62	+ 3	35.70	— 5	65.32	+ 11	30.06	— 5	57.16	— 1	26.69	— 6
28	41.93	+ 5	35.74	— 3	66.45	+ 19	30.04	— 4	57.36	+ 1	26.48	— 7
29	42.24	+ 6	35.78	— 2	67.58	+ 23	30.02	— 3	57.57	+ 3	26.26	— 6
30	42.55	+ 7	35.82	+ 1	68.71	+ 24	30.01	0	57.78	+ 5	26.06	— 4
Juli 1	42.86	+ 6	35.87	+ 3	69.84	+ 20	30.00	+ 2	57.99	+ 5	25.85	— 2
2	43.17	+ 4	35.93	+ 4	70.97	+ 13	30.00	+ 4	58.21	+ 5	25.65	+ 1
3	43.48	+ 1	35.99	+ 5	72.11	+ 4	30.00	+ 5	58.43	+ 4	25.45	+ 3
sec δ, tg δ	85° 49' 30"	13.736	+ 13.699	88° 52' 30"	50.933	+ 50.923	85° 20' 30"	12.313	+ 12.273			
	40	13.745	+ 13.708	40	51.059	+ 51.049	40	12.321	+ 12.280			

# Obere Kulmination Greenwich

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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.
1920	7 <sup>h</sup> 3 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 25 <sup>m</sup>	in 0.01	+81° 40'	in 0.01	16 <sup>h</sup> 54 <sup>m</sup>	in 0.01	+82° 10'	in 0.01
Mai 27	26.08	+ 2	40.24	+ 7	48.43	+ 2	58.98	+ 5	11.76	+ 1	16.74	- 6
28	25.88	- 3	39.97	+ 5	48.30	0	58.87	+ 5	11.76	+ 2	17.07	- 2
29	25.68	- 6	39.70	+ 3	48.18	- 2	58.75	+ 5	11.76	+ 2	17.39	+ 1
30	25.49	- 8	39.43	0	48.06	- 3	58.63	+ 3	11.76	+ 1	17.72	+ 4
31	25.31	- 8	39.15	- 3	47.94	- 4	58.50	+ 1	11.75	0	18.05	+ 6
Juni 1	25.13	- 7	38.87	- 5	47.82	- 3	58.36	- 2	11.74	0	18.38	+ 7
2	24.96	- 4	38.59	- 7	47.71	- 3	58.22	- 4	11.72	- 1	18.71	+ 7
3	24.80	- 1	38.30	- 7	47.59	- 2	58.08	- 5	11.71	- 1	19.03	+ 6
4	24.65	+ 2	38.02	- 6	47.48	0	57.93	- 6	11.69	- 2	19.36	+ 4
5	24.50	+ 5	37.73	- 4	47.36	+ 1	57.77	- 5	11.67	- 2	19.69	+ 1
6	24.36	+ 6	37.43	- 1	47.25	+ 2	57.61	- 3	11.65	- 1	20.02	- 2
7	24.23	+ 6	37.14	+ 2	47.14	+ 3	57.45	- 1	11.62	0	20.34	- 5
8	24.11	+ 5	36.84	+ 5	47.03	+ 3	57.28	+ 2	11.59	+ 1	20.67	- 6
9	23.99	+ 1	36.54	+ 7	46.92	+ 2	57.11	+ 6	11.56	+ 2	20.99	- 7
10	23.88	- 3	36.24	+ 9	46.82	+ 1	56.93	+ 8	11.52	+ 3	21.32	- 6
11	23.78	- 8	35.94	+ 8	46.71	- 1	56.74	+ 10	11.49	+ 3	21.64	- 3
12	23.69	- 13	35.64	+ 6	46.61	- 3	56.56	+ 9	11.45	+ 3	21.96	+ 1
13	23.60	- 15	35.33	+ 2	46.51	- 5	56.36	+ 7	11.40	+ 3	22.27	+ 5
14	23.52	- 14	35.03	- 2	46.41	- 5	56.16	+ 3	11.36	+ 1	22.59	+ 7
15	23.45	- 10	34.72	- 5	46.32	- 5	55.96	- 1	11.31	0	22.90	+ 8
16	23.39	- 4	34.41	- 8	46.22	- 3	55.76	- 5	11.26	- 2	23.21	+ 7
17	23.33	+ 3	34.09	- 8	46.13	- 1	55.55	- 8	11.21	- 3	23.52	+ 5
18	23.28	+ 10	33.78	- 7	46.04	+ 2	55.34	- 9	11.15	- 3	23.83	+ 1
19	23.24	+ 14	33.47	- 4	45.95	+ 4	55.12	- 8	11.09	- 3	24.13	- 4
20	23.20	+ 16	33.15	0	45.86	+ 6	54.90	- 5	11.03	- 2	24.44	- 7
21	23.18	+ 14	32.84	+ 4	45.77	+ 6	54.67	- 2	10.97	- 1	24.74	- 9
22	23.16	+ 10	32.52	+ 6	45.69	+ 5	54.44	+ 1	10.90	0	25.04	- 9
23	23.15	+ 5	32.20	+ 7	45.61	+ 3	54.21	+ 4	10.83	+ 1	25.33	- 7
24	23.14	0	31.89	+ 6	45.53	+ 1	53.97	+ 5	10.76	+ 2	25.63	- 4
25	23.15	- 4	31.57	+ 4	45.45	- 1	53.73	+ 5	10.69	+ 2	25.92	- 1
26	23.16	- 7	31.24	+ 1	45.37	- 2	53.49	+ 3	10.61	+ 1	26.21	+ 3
27	23.18	- 8	30.92	- 2	45.29	- 3	53.24	+ 1	10.53	+ 1	26.50	+ 5
28	23.20	- 7	30.60	- 4	45.22	- 3	52.99	- 1	10.45	0	26.79	+ 7
29	23.23	- 4	30.28	- 6	45.15	- 3	52.73	- 3	10.37	- 1	27.07	+ 7
30	23.27	- 1	29.96	- 7	45.08	- 2	52.48	- 5	10.28	- 1	27.35	+ 6
Juli 1	23.32	+ 2	29.64	- 7	45.01	- 1	52.21	- 6	10.19	- 2	27.63	+ 4
2	23.38	+ 5	29.32	- 5	44.95	+ 1	51.95	- 6	10.10	- 2	27.90	+ 2
3	23.44	+ 6	29.00	- 3	44.88	+ 2	51.68	- 4	10.01	- 1	28.17	- 1
sec δ, tg δ	87° 10' 30"	20.290	+20.265		81° 40' 50"	6.911	+6.839		82° 10' 20"	7.342	+7.274	
	40	20.310	+20.285		60	6.914	+6.841		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.
1920	17 <sup>h</sup> 58 <sup>m</sup>	in 0.01	+86° 36'	in 0.01	18 <sup>h</sup> 59 <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 27	11.70	+ 2	50.50	- 6	27.35	0	15.92	- 7	32.08	- 2	5.62	- 6
28	11.79	+ 4	50.81	- 4	27.94	+11	16.20	- 4	32.22	0	5.82	- 5
29	11.87	+ 5	51.13	0	28.51	+19	16.49	- 1	32.36	+1	6.02	- 3
30	11.95	+ 5	51.45	+ 3	29.06	+21	16.78	+ 2	32.50	+ 2	6.23	- 1
31	12.02	+ 4	51.77	+ 5	29.59	+19	17.07	+ 4	32.63	+ 3	6.44	+ 2
Juni 1	12.08	+ 2	52.09	+ 7	30.11	+14	17.36	+ 6	32.76	+ 3	6.65	+ 4
2	12.14	0	52.41	+ 7	30.60	+ 7	17.65	+ 7	32.89	+ 2	6.87	+ 5
3	12.19	- 2	52.73	+ 6	31.07	0	17.95	+ 7	33.02	+ 2	7.10	+ 6
4	12.24	- 3	53.05	+ 5	31.52	- 8	18.25	+ 5	33.15	+ 1	7.32	+ 6
5	12.28	- 4	53.38	+ 2	31.95	-14	18.55	+ 3	33.28	0	7.56	+ 4
6	12.31	- 4	53.71	- 1	32.35	-16	18.86	0	33.40	- 1	7.79	+ 2
7	12.33	- 3	54.03	- 4	32.74	-14	19.16	- 3	33.52	- 2	8.03	- 1
8	12.35	0	54.36	- 6	33.11	- 8	19.47	- 6	33.64	- 2	8.28	- 5
9	12.37	+ 3	54.69	- 8	33.46	+ 2	19.78	- 8	33.76	- 2	8.53	- 8
10	12.37	+ 6	55.01	- 7	33.78	+14	20.09	- 9	33.87	- 1	8.79	-10
11	12.36	+ 8	55.34	- 5	34.08	+26	20.41	- 7	33.98	0	9.05	- 9
12	12.35	+10	55.67	- 1	34.36	+34	20.72	- 4	34.09	+ 2	9.31	- 8
13	12.34	+ 9	56.00	+ 2	34.62	+36	21.04	0	34.20	+ 3	9.58	- 4
14	12.32	+ 6	56.33	+ 6	34.86	+31	21.36	+ 4	34.31	+ 3	9.85	0
15	12.29	+ 3	56.66	+ 8	35.07	+18	21.68	+ 7	34.42	+ 3	10.13	+ 4
16	12.26	- 2	56.99	+ 8	35.27	+ 1	22.00	+ 8	34.52	+ 2	10.40	+ 8
17	12.22	- 6	57.32	+ 6	35.44	-16	22.32	+ 8	34.62	+ 1	10.69	+ 9
18	12.18	- 9	57.64	+ 3	35.59	-31	22.64	+ 5	34.72	- 1	10.97	+ 8
19	12.12	-10	57.97	- 1	35.72	-39	22.97	+ 1	34.82	- 3	11.26	+ 6
20	12.06	- 9	58.29	- 5	35.83	-39	23.30	- 3	34.91	- 4	11.56	+ 2
21	12.00	- 7	58.62	- 8	35.91	-32	23.62	- 6	35.01	- 4	11.85	- 1
22	11.92	- 3	58.95	- 8	35.98	-21	23.95	- 7	35.10	- 3	12.15	- 4
23	11.84	0	59.27	- 7	36.02	- 7	24.28	- 7	35.18	- 2	12.46	- 6
24	11.76	+ 3	59.59	- 5	36.04	+ 6	24.61	- 5	35.27	- 1	12.76	- 6
25	11.67	+ 4	59.91	- 2	36.03	+14	24.93	- 3	35.35	0	13.07	- 4
26	11.57	+ 5	60.23	+ 2	36.01	+19	25.26	+ 1	35.43	+ 2	13.38	- 2
27	11.47	+ 4	60.55	+ 4	35.96	+19	25.59	+ 3	35.51	+ 2	13.69	+ 1
28	11.36	+ 2	60.87	+ 6	35.89	+15	25.92	+ 6	35.58	+ 3	14.01	+ 3
29	11.24	0	61.19	+ 7	35.80	+ 8	26.25	+ 7	35.65	+ 2	14.33	+ 5
30	11.12	- 2	61.51	+ 7	35.69	+ 1	26.58	+ 7	35.72	+ 2	14.65	+ 6
Juli 1	10.99	- 3	61.82	+ 5	35.55	- 7	26.91	+ 6	35.79	+ 1	14.97	+ 6
2	10.86	- 4	62.13	+ 3	35.40	-14	27.24	+ 4	35.86	0	15.29	+ 5
3	10.72	- 5	62.44	0	35.22	-17	27.57	+ 1	35.92	- 1	15.62	+ 3
sec δ, tg δ	86° 36' 50"	16.931	+16.901		89° 1' 20"	58.601	+58.592		82° 14' 10"	7.402	+7.335	
	60	16.945	+16.915		30	58.768	+58.759		20	7.405	+7.337	

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.	
1920	0 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+85° 49'	in 0.01	1 <sup>h</sup> 32 <sup>m</sup>	in 0.01	+88° 52'	in 0.01	4 <sup>h</sup> 10 <sup>m</sup>	in 0.01	+85° 20'	in 0.01	
Juli	3	43.48	+1	35.99	+5	12.11	+4	30.00	+5	58.43	+4	25.45	+3
	4	43.79	-2	36.06	+4	13.25	-7	30.01	+5	58.66	+1	25.26	+5
	5	44.10	-5	36.13	+3	14.39	-18	30.03	+3	58.88	-2	25.07	+6
	6	44.41	-7	36.21	0	15.53	-26	30.05	+1	59.12	-5	24.88	+6
	7	44.72	-9	36.29	-3	16.67	-31	30.08	-2	59.35	-8	24.70	+4
	8	45.03	-8	36.38	-7	17.81	-29	30.11	-6	59.59	-9	24.52	0
	9	45.34	-6	36.48	-9	18.96	-21	30.15	-9	59.83	-10	24.35	-3
	10	45.64	-2	36.58	-10	20.10	-8	30.19	-10	60.07	-8	24.17	-7
	11	45.95	+2	36.68	-9	21.25	+6	30.24	-9	60.31	-4	24.01	-9
	12	46.25	+6	36.79	-6	22.40	+19	30.30	-7	60.56	0	23.85	-9
	13	46.56	+8	36.91	-2	23.54	+27	30.36	-3	60.81	+4	23.69	-7
	14	46.86	+8	37.03	+3	24.68	+28	30.42	+2	61.06	+7	23.53	-3
	15	47.16	+6	37.15	+7	25.82	+23	30.49	+6	61.32	+9	23.39	+1
	16	47.46	+3	37.28	+10	26.96	+12	30.57	+9	61.58	+8	23.24	+6
	17	47.76	-1	37.42	+10	28.10	-1	30.65	+10	61.84	+6	23.10	+8
	18	48.06	-4	37.56	+8	29.24	-13	30.73	+9	62.10	+3	22.96	+10
	19	48.36	-6	37.71	+5	30.37	-21	30.82	+6	62.37	0	22.83	+9
	20	48.66	-7	37.86	+2	31.51	-23	30.92	+3	62.64	-3	22.70	+7
	21	48.95	-6	38.01	-1	32.64	-20	31.02	0	62.91	-4	22.58	+3
	22	49.24	-3	38.17	-4	33.77	-12	31.13	-3	63.18	-4	22.46	-1
	23	49.53	0	38.34	-5	34.90	-2	31.24	-5	63.46	-3	22.35	-4
	24	49.82	+3	38.51	-5	36.02	+9	31.36	-5	63.73	-1	22.24	-6
	25	50.11	+5	38.68	-4	37.14	+17	31.48	-4	64.01	+1	22.13	-7
	26	50.40	+6	38.86	-2	38.25	+22	31.61	-3	64.29	+3	22.03	-6
	27	50.68	+7	39.05	0	39.36	+24	31.74	-1	64.57	+4	21.93	-5
	28	50.96	+6	39.24	+2	40.46	+22	31.88	+1	64.85	+5	21.84	-3
	29	51.24	+5	39.44	+4	41.56	+17	32.02	+3	65.14	+5	21.76	0
	30	51.52	+2	39.64	+5	42.66	+9	32.17	+5	65.43	+4	21.67	+2
	31	51.79	-1	39.84	+5	43.75	-2	32.32	+5	65.72	+3	21.60	+5
Aug.	1	52.07	-4	40.05	+4	44.84	-13	32.48	+5	66.01	0	21.53	+6
	2	52.34	-6	40.26	+2	45.92	-23	32.64	+3	66.30	-3	21.46	+6
	3	52.61	-8	40.48	-2	47.00	-29	32.81	0	66.59	-6	21.39	+5
	4	52.88	-8	40.70	-5	48.07	-30	32.98	-4	66.88	-9	21.34	+2
	5	53.15	-6	40.93	-8	49.14	-24	33.16	-7	67.17	-9	21.28	-2
	6	53.41	-4	41.16	-10	50.20	-14	33.34	-9	67.47	-8	21.23	-5
	7	53.67	0	41.39	-10	51.25	0	33.53	-10	67.77	-6	21.18	-8
	8	53.93	+4	41.63	-8	52.30	+13	33.72	-8	68.07	-2	21.14	-9
	9	54.18	+7	41.88	-4	53.33	+24	33.92	-5	68.37	+2	21.10	-8

sec δ, tg δ	85° 49' 30"	13.736	+13.699	88° 52' 30"	50.933	+50.923	85° 20' 20"	12.306	+12.265
	40	13.745	+13.708	40	51.059	+51.049	30	12.313	+12.273

Tag	51 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.
1920	7 <sup>h</sup> 3 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 25 <sup>m</sup>	in 0.01	+81° 40'	in 0.01	16 <sup>h</sup> 54 <sup>m</sup>	in 0.01	+82° 10'	in 0.01
Juli	3	23.44 + 6	29.00	- 3	44.88 + 2	51.68	- 4	10.01	- 1	28.17	- 1	
	4	23.51 + 7	28.68	0	44.82 + 3	51.41	- 2	9.91	- 1	28.44	- 4	
	5	23.59 + 6	28.36	+ 3	44.76 + 3	51.13	+ 1	9.81	0	28.70	- 6	
	6	23.68 + 3	28.03	+ 6	44.70 + 2	50.85	+ 4	9.71	+ 1	28.96	- 7	
	7	23.77 23.87 - 6	27.71 27.38 + 8	+ 8 + 8	44.64 + 1	50.57	+ 7	9.61	+ 2	29.22	- 6	
	8	23.98 - 11	27.06	+ 7	44.59 0	50.28	+ 9	9.50	+ 3	29.48	- 4	
	9	24.10 - 14	26.74	+ 4	44.54 - 2	49.99	+ 10	9.39	+ 3	29.73	0	
	10	24.22 - 15	26.42	0	44.49 - 4	49.70	+ 8	9.28	+ 3	29.98	+ 3	
	11	24.35 - 12	26.10	- 4	44.45 - 5	49.41	+ 5	9.17	+ 2	30.22	+ 7	
	12	24.49 - 7	25.78	- 7	44.40 - 5	49.12	+ 1	9.06	+ 1	30.47	+ 8	
	13	24.63 - 1	25.46	- 8	44.36 - 4	48.82	- 3	8.94	- 1	30.70	+ 8	
	14	24.78 + 6	25.15	- 7	44.32 - 2	48.52	- 6	8.83	- 2	30.94	+ 6	
	15	24.94 + 12	24.84	- 5	44.28 + 1	48.22	- 8	8.71	- 3	31.17	+ 2	
	16	25.10 + 15	24.52	- 1	44.25 + 3	47.91	- 8	8.59	- 3	31.40	- 2	
	17	25.27 + 14	24.21	+ 3	44.21 + 5	47.60	- 6	8.46	- 3	31.62	- 6	
	18	25.45 + 12	23.90	+ 6	44.18 + 6	47.29	- 3	8.34	- 2	31.84	- 8	
	19	25.64 + 7	23.59	+ 7	44.15 + 5	46.98	0	8.21	0	32.06	- 9	
	20	25.83 + 2	23.28	+ 7	44.13 + 4	46.67	+ 3	8.09	+ 1	32.27	- 8	
	21	26.03 - 3	22.97	+ 5	44.10 + 2	46.35	+ 5	7.95	+ 1	32.47	- 5	
	22	26.24 - 6	22.67	+ 2	44.08 0	46.03	+ 5	7.82	+ 2	32.68	- 2	
	23	26.45 - 7	22.36	- 1	44.06 - 2	45.71	+ 4	7.69	+ 1	32.87	+ 1	
	24	26.67 - 7	22.06	- 4	44.04 - 2	45.39	+ 2	7.55	+ 1	33.07	+ 4	
	25	26.90 - 5	21.75	- 6	44.03 - 3	45.07	- 1	7.41	0	33.26	+ 6	
	26	27.13 - 2	21.45	- 7	44.01 - 3	44.75	- 3	7.28	- 1	33.44	+ 7	
	27	27.37 + 1	21.15	- 7	44.00 - 2	44.42	- 5	7.13	- 1	33.62	+ 6	
	28	27.62 + 4	20.85	- 6	43.99 - 1	44.09	- 6	6.99	- 2	33.80	+ 5	
	29	27.87 + 6	20.56	- 4	43.99 0	43.76	- 6	6.84	- 2	33.97	+ 3	
	30	28.14 + 7	20.27	- 1	43.98 + 1	43.43	- 5	6.70	- 2	34.14	0	
	31	28.40 + 7	19.98	+ 2	43.98 + 2	43.10	- 3	6.55	- 1	34.30	- 3	
Aug.	1	28.68 + 5	19.69	+ 5	43.98 + 3	42.77	- 1	6.40	0	34.46	- 5	
	2	28.96 + 1	19.40	+ 7	43.99 + 3	42.43	+ 2	6.25	+ 1	34.62	- 6	
	3	29.24 - 4	19.11	+ 8	43.99 + 2	42.10	+ 6	6.10	+ 2	34.77	- 6	
	4	29.53 - 9	18.83	+ 7	44.00 + 1	41.76	+ 8	5.94	+ 3	34.92	- 5	
	5	29.83 - 13	18.55	+ 5	44.01 - 1	41.42	+ 9	5.79	+ 3	35.06	- 2	
	6	30.13 - 15	18.27	+ 2	44.02 - 3	41.07	+ 9	5.64	+ 3	35.20	+ 2	
	7	30.44 - 14	17.99	- 2	44.03 - 5	40.73	+ 7	5.48	+ 3	35.33	+ 5	
	8	30.76 - 10	17.72	- 6	44.05 - 5	40.39	+ 3	5.32	+ 1	35.46	+ 8	
	9	31.08 - 4	17.45	- 8	44.07 - 5	40.05	- 1	5.16	0	35.58	+ 9	
sec δ, tg δ	87° 10' 20"	20.270	+ 20.245		81° 40' 40"	6.909	+ 6.836		82° 10' 30"	7.345	+ 7.277	
	30	20.290	+ 20.265		50	6.911	+ 6.839		40	7.348	+ 7.279	

# 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.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	
1920	17 <sup>h</sup> 58 <sup>m</sup>	in 0.01	+86° 37'	in 0.01	18 <sup>h</sup> 59 <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	3	10.72	— 5	2.44	0	35.22	—17	27.57	+ 1	35.92	— 1	15.62	+ 3
	4	10.57	— 4	2.75	— 3	35.02	—17	27.90	— 2	35.98	— 2	15.95	0
	5	10.42	— 2	3.06	— 5	34.80	—12	28.23	— 5	36.04	— 2	16.28	— 3
	6	10.26	+ 1	3.37	— 7	34.55	— 3	28.56	— 7	36.09	— 2	16.62	— 6
	7	10.10	+ 4	3.67	— 7	34.29	+ 9	28.89	— 8	36.14	— 1	16.96	— 8
	8	9.93	+ 7	3.97	— 6	34.00	+ 22	29.22	— 8	36.19	0	17.30	—10
	9	9.75	+ 9	4.27	— 3	33.69	+ 32	29.55	— 5	36.24	+ 1	17.64	— 9
	10	9.57	+10	4.56	+ 1	33.36	+ 38	29.88	— 2	36.29	+ 2	17.99	— 6
	11	9.38	+ 8	4.86	+ 4	33.00	+ 36	30.20	+ 2	36.33	+ 3	18.34	— 2
	12	9.19	+ 5	5.15	+ 7	32.63	+ 26	30.53	+ 6	36.37	+ 3	18.68	+ 2
	13	8.99	+ 1	5.44	+ 8	32.24	+ 11	30.85	+ 8	36.41	+ 3	19.03	+ 6
	14	8.79	— 3	5.73	+ 7	31.83	— 6	31.18	+ 8	36.44	+ 2	19.38	+ 8
	15	8.58	— 7	6.01	+ 4	31.39	— 22	31.50	+ 6	36.48	0	19.73	+ 8
	16	8.36	— 9	6.30	+ 1	30.94	— 34	31.82	+ 3	36.51	— 2	20.08	+ 7
	17	8.14	— 9	6.58	— 3	30.46	— 38	32.14	— 1	36.54	— 3	20.44	+ 3
	18	7.92	— 7	6.86	— 7	29.97	— 34	32.46	— 4	36.56	— 4	20.79	0
	19	7.69	— 5	7.14	— 8	29.45	— 25	32.78	— 7	36.58	— 4	21.15	— 3
	20	7.45	— 1	7.41	— 8	28.92	— 12	33.10	— 7	36.60	— 3	21.51	— 5
	21	7.21	+ 2	7.68	— 6	28.36	0	33.41	— 6	36.62	— 2	21.87	— 6
	22	6.97	+ 4	7.94	— 3	27.79	+ 11	33.73	— 4	36.63	0	22.22	— 4
	23	6.71	+ 4	8.21	0	27.19	+ 17	34.04	— 1	36.64	+ 1	22.58	— 2
	24	6.46	+ 4	8.47	+ 3	26.57	+ 18	34.35	+ 2	36.65	+ 2	22.94	0
	25	6.20	+ 2	8.73	+ 6	25.93	+ 15	34.66	+ 5	36.65	+ 3	23.30	+ 3
	26	5.93	+ 1	8.99	+ 7	25.28	+ 9	34.96	+ 7	36.65	+ 3	23.66	+ 5
	27	5.66	— 1	9.24	+ 7	24.60	+ 2	35.27	+ 7	36.65	+ 2	24.02	+ 6
	28	5.38	— 3	9.49	+ 6	23.90	— 6	35.57	+ 6	36.65	+ 1	24.38	+ 6
	29	5.10	— 4	9.74	+ 4	23.18	— 13	35.87	+ 5	36.65	0	24.74	+ 6
	30	4.81	— 5	9.98	+ 1	22.45	— 18	36.17	+ 2	36.64	— 1	25.10	+ 4
	31	4.52	— 5	10.22	— 2	21.69	— 19	36.46	— 1	36.63	— 2	25.46	+ 2
Aug.	1	4.22	— 3	10.45	— 4	20.92	— 16	36.76	— 4	36.62	— 2	25.82	— 1
	2	3.92	— 1	10.68	— 7	20.13	— 9	37.05	— 6	36.60	— 2	26.18	— 5
	3	3.62	+ 3	10.91	— 7	19.32	+ 2	37.34	— 8	36.59	— 2	26.54	— 7
	4	3.31	+ 6	11.14	— 7	18.50	+ 15	37.62	— 8	36.57	— 1	26.90	— 9
	5	3.00	+ 8	11.36	— 4	17.65	+ 27	37.91	— 6	36.54	+ 1	27.27	— 9
	6	2.68	+10	11.58	— 1	16.79	+ 35	38.19	— 3	36.52	+ 2	27.63	— 7
	7	2.36	+ 9	11.79	+ 3	15.91	+ 37	38.47	0	36.49	+ 3	28.00	— 4
	8	2.03	+ 7	12.00	+ 6	15.01	+ 32	38.74	+ 4	36.46	+ 3	28.36	0
	9	1.70	+ 3	12.20	+ 8	14.10	+ 19	39.02	+ 7	36.43	+ 3	28.72	+ 4
sec δ, tg δ	86° 37' 0"	16.945	+16.915	89° 1' 30"	58.768	+58.759	82° 14' 20"	7.405	+7.337				
	10	16.958	+16.929	40	58.936	+58.927	30	7.408	+7.340				

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.
1920	0 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+85° 49'	in 0.01	1 <sup>h</sup> 32 <sup>m</sup>	in 0.01	+88° 52'	in 0.01	4 <sup>h</sup> 11 <sup>m</sup>	in 0.01	+85° 20'	in 0.01
Aug. 9	54.18	+7	41.88	-4	53.33	+24	33.92	-5	8.37	+2	21.10	-8
10	54.43	+8	42.12	+1	54.36	+28	34.12	0	8.67	+5	21.07	-5
11	54.68	+7	42.38	+5	55.38	+24	34.32	+4	8.97	+8	21.05	-1
12	54.93	+4	42.63	+8	56.40	+15	34.53	+8	9.27	+8	21.02	+3
13	55.17	+1	42.89	+9	57.40	+3	34.74	+9	9.58	+6	21.01	+7
14	55.42	-3	43.16	+9	58.40	-10	34.96	+9	9.89	+4	21.00	+9
15	55.65	-6	43.43	+6	59.40	-19	35.18	+7	10.19	+1	20.99	+9
16	55.89	-7	43.70	+3	60.38	-23	35.41	+4	10.50	-2	20.99	+7
17	56.12	-6	43.97	0	61.36	-22	35.64	+1	10.81	-4	20.99	+4
18	56.35	-4	44.25	-3	62.33	-15	35.87	-2	11.11	-4	21.00	+1
19	56.58	-2	44.53	-4	63.28	-6	36.11	-4	11.42	-4	21.02	-3
20	56.80	+1	44.82	-5	64.23	+5	36.35	-5	11.73	-2	21.03	-5
21	57.02	+4	45.11	-4	65.17	+14	36.60	-5	12.04	0	21.06	-6
22	57.24	+6	45.40	-2	66.10	+21	36.85	-3	12.34	+2	21.08	-7
23	57.45	+7	45.69	0	67.02	+24	37.10	-2	12.65	+4	21.11	-5
24	57.66	+7	45.99	+2	67.93	+24	37.36	+1	12.96	+5	21.15	-4
25	57.87	+5	46.29	+4	68.83	+19	37.62	+3	13.27	+6	21.19	-1
26	58.08	+3	46.60	+5	69.72	+12	37.89	+4	13.58	+5	21.23	+2
27	58.28	0	46.91	+5	70.60	+3	38.16	+5	13.89	+4	21.28	+4
28	58.48	-2	47.22	+5	71.46	-9	38.43	+5	14.20	+1	21.34	+6
29	58.67	-5	47.54	+3	72.32	-19	38.71	+4	14.50	-2	21.39	+7
30	58.86	-7	47.86	0	73.16	-26	38.99	+1	14.81	-5	21.46	+6
31	59.05	-8	48.18	-3	74.00	-29	39.28	-2	15.12	-7	21.53	+4
Sept. 1	59.23	-7	48.50	-6	74.83	-27	39.57	-5	15.43	-9	21.60	0
2	59.41	-5	48.83	-9	75.64	-18	39.86	-8	15.73	-9	21.67	-3
3	59.59	-1	49.15	-10	76.44	-5	40.15	-9	16.04	-7	21.76	-7
4	59.76	+3	49.49	-8	77.23	+9	40.45	-9	16.34	-3	21.84	-9
5	59.93	+6	49.82	-5	78.01	+20	40.75	-6	16.65	0	21.93	-8
6	60.10	+8	50.16	-1	78.77	+27	41.05	-2	16.95	+4	22.03	-6
7	60.26	+7	50.49	+3	79.53	+27	41.36	+2	17.26	+7	22.13	-3
8	60.42	+6	50.84	+7	80.27	+20	41.67	+6	17.56	+8	22.24	+1
9	60.57	+2	51.18	+9	80.99	+8	41.98	+9	17.86	+7	22.35	+6
10	60.72	-2	51.52	+9	81.71	-5	42.30	+9	18.16	+4	22.46	+8
11	60.87	-5	51.87	+7	82.41	-16	42.62	+8	18.46	+1	22.58	+9
12	61.01	-7	52.22	+4	83.10	-23	42.94	+5	18.76	-2	22.70	+8
13	61.15	-7	52.56	+1	83.77	-25	43.27	+2	19.06	-4	22.83	+5
14	61.28	-5	52.92	-2	84.43	-19	43.59	-2	19.35	-5	22.96	+2
15	61.41	-3	53.27	-4	85.08	-10	43.92	-4	19.65	-5	23.10	-2
sec δ, tg δ	85° 49' 40"	13.745	+13.708		88° 52' 30"	50.933	+50.923		85° 20' 20"	12.306	+12.265	
	50	13.754	+13.718		40	51.059	+51.049		30	12.313	+12.273	



# Obere Kulmination Greenwich

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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.
1920	7 <sup>h</sup> 3 <sup>m</sup>	in o.oi	+87° 10'	in o.oi	9 <sup>h</sup> 25 <sup>m</sup>	in o.oi	+81° 40'	in o.oi	16 <sup>h</sup> 53 <sup>m</sup>	in o.oi	+82° 10'	in o.oi
Aug. 9	31.08	- 4	17.45	- 8	44.07	- 5	40.05	- 1	65.16	0	35.58	+ 9
10	31.40	+ 2	17.19	- 8	44.09	- 3	39.70	- 5	65.00	- 2	35.70	+ 7
11	31.73	+ 9	16.92	- 6	44.11	- 1	39.36	- 7	64.84	- 2	35.82	+ 4
12	32.07	+13	16.66	- 2	44.14	+ 2	39.01	- 8	64.68	- 3	35.92	0
13	32.41	+14	16.40	+ 1	44.16	+ 4	38.67	- 7	64.52	- 3	36.03	- 4
14	32.75	+12	16.14	+ 5	44.19	+ 5	38.33	- 4	64.35	- 2	36.13	- 7
15	33.10	+ 8	15.89	+ 7	44.22	+ 5	37.99	- 1	64.18	0	36.22	- 9
16	33.46	+ 3	15.64	+ 7	44.26	+ 4	37.65	+ 2	64.02	0	36.31	- 8
17	33.82	- 1	15.39	+ 6	44.29	+ 3	37.31	+ 5	63.85	+ 1	36.39	- 6
18	34.19	- 5	15.14	+ 3	44.33	+ 1	36.97	+ 5	63.68	+ 2	36.47	- 3
19	34.56	- 7	14.90	0	44.37	- 1	36.62	+ 4	63.51	+ 2	36.54	0
20	34.94	- 7	14.66	- 3	44.41	- 2	36.28	+ 3	63.34	+ 1	36.61	+ 3
21	35.33	- 6	14.42	- 5	44.46	- 3	35.94	0	63.17	0	36.68	+ 6
22	35.71	- 3	14.19	- 7	44.51	- 3	35.59	- 2	63.00	0	36.74	+ 7
23	36.11	0	13.96	- 7	44.56	- 2	35.25	- 4	62.83	- 1	36.79	+ 7
24	36.51	+ 3	13.73	- 6	44.61	- 1	34.91	- 5	62.65	- 2	36.84	+ 5
25	36.91	+ 6	13.51	- 5	44.66	0	34.56	- 6	62.47	- 2	36.89	+ 3
26	37.32	+ 8	13.29	- 2	44.71	+ 1	34.22	- 6	62.30	- 2	36.93	+ 1
27	37.73	+ 8	13.08	+ 1	44.77	+ 2	33.87	- 4	62.12	- 2	36.96	- 2
28	38.15	+ 6	12.86	+ 4	44.83	+ 3	33.53	- 2	61.94	- 1	36.99	- 4
29	38.56	+ 4	12.66	+ 6	44.89	+ 3	33.19	+ 1	61.77	0	37.01	- 6
30	38.99	- 1	12.45	+ 8	44.96	+ 3	32.85	+ 4	61.59	+ 1	37.03	- 7
31	39.42	- 6	12.25	+ 8	45.02	+ 1	32.51	+ 7	61.41	+ 2	37.05	- 6
Sept. 1	39.85	-10	12.05	+ 6	45.09	0	32.18	+ 9	61.24	+ 3	37.06	- 4
2	40.28	-13	11.86	+ 3	45.16	- 2	31.84	+ 9	61.06	+ 3	37.06	0
3	40.73	-14	11.67	- 1	45.23	- 4	31.51	+ 8	60.89	+ 3	37.06	+ 3
4	41.17	-11	11.48	- 4	45.31	- 5	31.17	+ 4	60.71	+ 2	37.06	+ 7
5	41.62	- 6	11.30	- 7	45.38	- 5	30.84	0	60.53	+ 1	37.05	+ 8
6	42.07	0	11.12	- 8	45.46	- 4	30.51	- 3	60.35	- 1	37.03	+ 8
7	42.53	+ 6	10.94	- 7	45.54	- 2	30.18	- 6	60.17	- 2	37.01	+ 6
8	42.99	+11	10.77	- 4	45.62	+ 1	29.85	- 8	59.99	- 3	36.98	+ 2
9	43.45	+13	10.60	0	45.71	+ 3	29.52	- 7	59.81	- 3	36.95	- 2
10	43.92	+12	10.44	+ 4	45.80	+ 5	29.20	- 5	59.63	- 2	36.92	- 6
11	44.38	+ 9	10.28	+ 6	45.89	+ 5	28.87	- 2	59.45	- 1	36.88	- 8
12	44.85	+ 5	10.13	+ 7	45.98	+ 5	28.55	+ 2	59.27	0	36.84	- 9
13	45.33	0	9.98	+ 7	46.07	+ 3	28.23	+ 4	59.09	+ 1	36.79	- 7
14	45.80	- 4	9.83	+ 5	46.16	+ 1	27.91	+ 6	58.91	+ 2	36.73	- 5
15	46.28	- 7	9.69	+ 2	46.26	- 1	27.59	+ 5	58.73	+ 2	36.66	- 1
sec δ, tg δ	87° 10' 10"	20.250	+20.225		81° 40' 30"	6.907	+6.834		82° 10' 30"	7.345	+7.277	
	20	20.270	+20.245		40	6.909	+6.836		40	7.348	+7.279	

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.
1920	17 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+86° 37'	in 0.01	18 <sup>h</sup> 58 <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
Aug. 9	61.70	+3	12.20	+8	74.10	+19	39.02	+7	36.43	+3	28.72	+4
10	61.37	-2	12.40	+8	73.17	+3	39.29	+8	36.39	+2	29.08	+7
11	61.03	-5	12.60	+6	72.22	-14	39.55	+7	36.35	+1	29.44	+8
12	60.69	-8	12.79	+2	71.26	-29	39.82	+4	36.31	-1	29.79	+7
13	60.35	-9	12.98	-2	70.28	-34	40.08	0	36.26	-3	30.15	+4
14	60.00	-8	13.17	-5	69.28	-34	40.34	-3	36.22	-4	30.50	+1
15	59.65	-5	13.35	-8	68.27	-27	40.59	-6	36.17	-4	30.86	-2
16	59.30	-2	13.53	-8	67.24	-15	40.85	-7	36.12	-3	31.21	-5
17	58.94	+1	13.71	-7	66.20	-3	41.10	-7	36.06	-2	31.56	-6
18	58.58	+3	13.88	-4	65.14	+8	41.35	-5	36.01	-1	31.91	-5
19	58.21	+4	14.05	-1	64.07	+16	41.60	-2	35.95	+1	32.26	-3
20	57.84	+4	14.21	+2	62.98	+18	41.84	+1	35.89	+2	32.61	-1
21	57.47	+3	14.37	+5	61.88	+17	42.08	+4	35.82	+2	32.96	+2
22	57.09	+1	14.52	+7	60.76	+12	42.31	+6	35.76	+3	33.30	+4
23	56.72	-1	14.67	+7	59.62	+4	42.54	+7	35.69	+2	33.65	+6
24	56.34	-3	14.81	+6	58.48	-3	42.77	+7	35.62	+1	33.99	+7
25	55.95	-4	14.95	+5	57.32	-11	42.99	+6	35.55	+1	34.33	+6
26	55.57	-5	15.09	+2	56.14	-17	43.21	+3	35.47	-1	34.66	+5
27	55.18	-5	15.22	-1	54.96	-20	43.42	+1	35.39	-1	35.00	+3
28	54.79	-4	15.35	-3	53.76	-19	43.63	-2	35.31	-2	35.34	0
29	54.39	-2	15.47	-6	52.55	-14	43.84	-5	35.22	-2	35.67	-3
30	54.00	+1	15.58	-7	51.32	-5	44.04	-7	35.14	-2	36.00	-6
31	53.60	+4	15.70	-7	50.09	+8	44.24	-8	35.05	-1	36.32	-8
Sept. 1	53.20	+7	15.80	-5	48.84	+20	44.44	-7	34.96	0	36.65	-9
2	52.80	+9	15.91	-3	47.58	+30	44.63	-5	34.87	+1	36.97	-8
3	52.39	+9	16.01	+1	46.31	+35	44.82	-1	34.77	+2	37.29	-5
4	51.99	+7	16.10	+5	45.02	+33	45.01	+3	34.68	+3	37.61	-1
5	51.58	+4	16.19	+7	43.73	+24	45.19	+6	34.58	+3	37.92	+3
6	51.17	0	16.28	+8	42.42	+9	45.37	+8	34.48	+3	38.23	+6
7	50.76	-4	16.36	+7	41.11	-7	45.54	+8	34.38	+1	38.54	+8
8	50.34	-7	16.44	+4	39.78	-21	45.71	+6	34.27	0	38.84	+7
9	49.93	-8	16.51	0	38.45	-31	45.87	+2	34.17	-2	39.15	+6
10	49.51	-8	16.57	-4	37.10	-33	46.03	-2	34.06	-3	39.45	+2
11	49.09	-6	16.63	-7	35.75	-29	46.19	-5	33.95	-4	39.74	-1
12	48.68	-3	16.69	-8	34.39	-18	46.34	-7	33.84	-3	40.04	-4
13	48.26	0	16.74	-8	33.02	-6	46.49	-7	33.72	-2	40.33	-6
14	47.83	+3	16.78	-6	31.64	+6	46.63	-6	33.61	-1	40.62	-6
15	47.41	+4	16.82	-2	30.25	+15	46.77	-3	33.49	0	40.91	-4
sec δ, tg δ	86° 37' 10"	16.958	+16.929		89° 1' 40"	58.936	+58.927		82° 14' 30"	7.408	+7.340	
	20	16.972	+16.943		50	59.104	+59.096		40	7.410	+7.343	

# 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.
1920	0 <sup>h</sup> 58 <sup>m</sup>	in 0.01	+85° 49'	in 0.01	1 <sup>h</sup> 33 <sup>m</sup>	in 0.01	+88° 52'	in 0.01	4 <sup>h</sup> 11 <sup>m</sup>	in 0.01	+85° 20'	in 0.01
Sept. 15	1.41	— 3	53.27	— 4	25.08	— 10	43.92	— 4	19.65	— 5	23.10	— 2
16	1.54	0	53.63	— 5	25.71	+ 1	44.25	— 5	19.94	— 3	23.24	— 4
17	1.66	+ 3	53.99	— 5	26.33	+ 10	44.59	— 5	20.24	— 1	23.38	— 6
18	1.78	+ 5	54.35	— 3	26.94	+ 18	44.93	— 4	20.53	+ 1	23.53	— 7
19	1.89	+ 6	54.71	— 1	27.53	+ 23	45.27	— 2	20.82	+ 3	23.68	— 6
20	2.00	+ 7	55.08	+ 1	28.11	+ 24	45.61	0	21.11	+ 5	23.84	— 4
21	2.10	+ 6	55.44	+ 3	28.67	+ 21	45.95	+ 2	21.40	+ 5	24.00	— 2
22	2.20	+ 4	55.81	+ 4	29.22	+ 15	46.30	+ 4	21.68	+ 5	24.17	0
23	2.30	+ 2	56.17	+ 5	29.75	+ 7	46.65	+ 5	21.97	+ 4	24.34	+ 3
24	2.39	— 1	56.54	+ 5	30.27	— 4	47.00	+ 5	22.26	+ 2	24.51	+ 5
25	2.48	— 4	56.91	+ 4	30.78	— 15	47.35	+ 5	22.54	— 1	24.69	+ 6
26	2.56	— 7	57.28	+ 1	31.27	— 24	47.70	+ 2	22.82	— 3	24.87	+ 6
27	2.64	— 8	57.65	— 2	31.74	— 29	48.06	0	23.10	— 6	25.06	+ 5
28	2.72	— 8	58.03	— 5	32.20	— 28	48.41	— 4	23.37	— 8	25.25	+ 2
29	2.79	— 6	58.40	— 8	32.64	— 22	48.77	— 7	23.64	— 9	25.45	— 2
Okt. 30	2.85	— 3	58.77	— 9	33.07	— 11	49.13	— 9	23.91	— 7	25.65	— 5
1	2.92	+ 1	59.14	— 8	33.48	+ 3	49.49	— 9	24.18	— 5	25.85	— 8
2	2.97	+ 5	59.52	— 6	33.88	+ 16	49.86	— 7	24.45	— 1	26.05	— 8
3	3.03	+ 7	59.89	— 2	34.26	+ 26	50.22	— 3	24.72	+ 3	26.26	— 7
4	3.08	+ 8	60.27	+ 2	34.63	+ 29	50.59	+ 1	24.98	+ 6	26.47	— 4
5	3.12	+ 7	60.64	+ 6	34.98	+ 24	50.96	+ 5	25.24	+ 8	26.69	0
6	3.16	+ 4	61.02	+ 8	35.31	+ 14	51.33	+ 8	25.50	+ 8	26.91	+ 4
7	3.19	0	61.39	+ 9	35.62	+ 1	51.70	+ 9	25.75	+ 6	27.14	+ 7
8	3.22	— 3	61.77	+ 8	35.92	— 12	52.07	+ 8	26.01	+ 3	27.37	+ 9
9	3.25	— 6	62.14	+ 5	36.20	— 21	52.44	+ 6	26.26	— 1	27.60	+ 9
10	3.27	— 7	62.52	+ 2	36.47	— 25	52.81	+ 3	26.50	— 3	27.84	+ 6
11	3.29	— 6	62.89	— 1	36.72	— 22	53.18	— 1	26.75	— 5	28.08	+ 3
12	3.30	— 4	63.27	— 4	36.96	— 15	53.56	— 4	26.99	— 5	28.32	0
13	3.31	— 1	63.65	— 5	37.17	— 5	53.93	— 5	27.23	— 4	28.57	— 3
14	3.31	+ 2	64.02	— 5	37.37	+ 6	54.31	— 6	27.47	— 2	28.82	— 6
15	3.31	+ 4	64.40	— 4	37.55	+ 15	54.68	— 5	27.70	0	29.07	— 7
16	3.30	+ 6	64.77	— 2	37.71	+ 21	55.06	— 3	27.93	+ 2	29.33	— 6
17	3.29	+ 7	65.15	0	37.86	+ 24	55.43	— 1	28.16	+ 4	29.59	— 5
18	3.28	+ 6	65.52	+ 2	37.99	+ 22	55.81	+ 1	28.39	+ 5	29.85	— 3
19	3.26	+ 5	65.89	+ 4	38.10	+ 18	56.18	+ 3	28.61	+ 5	30.11	— 1
20	3.23	+ 3	66.26	+ 5	38.19	+ 10	56.55	+ 4	28.83	+ 5	30.38	+ 2
21	3.21	0	66.63	+ 5	38.27	0	56.93	+ 5	29.04	+ 3	30.65	+ 4
22	3.17	— 3	66.99	+ 4	38.33	— 11	57.30	+ 5	29.26	0	30.92	+ 6

sec δ, tg δ	85° 49' 50"	13.754	+13.718	88° 52' 50"	51.186	+51.176	85° 20' 20"	12.306	+12.265
	60	13.763	+13.727	60	51.313	+51.303	30	12.313	+12.273

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.
1920	7 <sup>h</sup> 3 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 25 <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
Sept. 15	46.28	- 7	9.69	+ 2	46.36	- 2	27.28	+ 4	58.73	+ 2	36.66	- 1
16	46.76	- 8	9.55	- 2	46.46	- 3	26.96	+ 1	58.56	+ 1	36.59	+ 2
17	47.25	- 7	9.42	- 4	46.56	- 3	26.65	- 1	58.38	+ 1	36.52	+ 5
18	47.74	- 4	9.29	- 6	46.67	- 3	26.34	- 4	58.21	0	36.44	+ 7
19	48.23	- 1	9.16	- 7	46.77	- 2	26.04	- 5	58.03	- 1	36.36	+ 7
20	48.72	+ 2	9.04	- 7	46.88	- 1	25.73	- 6	57.86	- 1	36.28	+ 6
21	49.21	+ 5	8.92	- 5	46.99	+ 1	25.43	- 6	57.68	- 2	36.18	+ 4
22	49.70	+ 7	8.81	- 3	47.10	+ 2	25.13	- 5	57.51	- 2	36.09	+ 2
23	50.20	+ 8	8.70	0	47.22	+ 3	24.83	- 3	57.33	- 2	35.99	- 1
24	50.70	+ 7	8.60	+ 3	47.33	+ 3	24.54	0	57.16	- 1	35.88	- 3
25	51.20	+ 5	8.50	+ 6	47.45	+ 3	24.25	+ 3	56.98	0	35.77	- 6
26	51.71	+ 1	8.40	+ 7	47.57	+ 2	23.96	+ 6	56.81	+ 1	35.65	- 7
27	52.21	- 4	8.31	+ 8	47.69	+ 1	23.68	+ 8	56.64	+ 2	35.53	- 6
28	52.72	- 8	8.22	+ 7	47.81	- 1	23.39	+ 9	56.47	+ 3	35.40	- 5
29	53.23	- 12	8.14	+ 4	47.93	- 3	23.11	+ 8	56.29	+ 3	35.27	- 2
30	53.74	- 13	8.07	+ 1	48.06	- 4	22.84	+ 5	56.12	+ 3	35.14	+ 2
Okt. 1	54.25	- 12	7.99	- 3	48.18	- 5	22.56	+ 2	55.96	+ 2	35.00	+ 5
2	54.77	- 8	7.93	- 6	48.31	- 4	22.29	- 2	55.79	+ 1	34.85	+ 8
3	55.28	- 2	7.87	- 8	48.44	- 2	22.02	- 6	55.62	- 1	34.70	+ 8
4	55.79	+ 4	7.81	- 8	48.58	0	21.75	- 8	55.46	- 2	34.55	+ 7
5	56.30	+ 10	7.76	- 5	48.71	+ 2	21.49	- 8	55.29	- 3	34.39	+ 4
6	56.82	+ 13	7.71	- 2	48.84	+ 4	21.23	- 6	55.13	- 3	34.22	- 1
7	57.34	+ 13	7.67	+ 2	48.98	+ 5	20.97	- 3	54.97	- 2	34.05	- 4
8	57.85	+ 11	7.63	+ 5	49.11	+ 5	20.72	0	54.81	- 1	33.87	- 7
9	58.37	+ 7	7.59	+ 7	49.25	+ 4	20.47	+ 3	54.65	0	33.69	- 9
10	58.89	+ 1	7.57	+ 7	49.39	+ 2	20.23	+ 5	54.49	+ 1	33.51	- 8
11	59.41	- 3	7.54	+ 6	49.53	0	19.98	+ 6	54.33	+ 1	33.32	- 6
12	59.92	- 7	7.52	+ 3	49.68	- 2	19.75	+ 5	54.17	+ 2	33.13	- 2
13	60.44	- 8	7.51	0	49.82	- 3	19.51	+ 3	54.02	+ 2	32.93	+ 1
14	60.95	- 7	7.50	- 3	49.97	- 3	19.28	0	53.87	+ 1	32.73	+ 4
15	61.47	- 5	7.50	- 5	50.12	- 3	19.05	- 2	53.71	0	32.53	+ 6
16	61.99	- 3	7.50	- 7	50.27	- 2	18.83	- 4	53.56	- 1	32.32	+ 7
17	62.50	+ 1	7.51	- 7	50.42	- 1	18.61	- 6	53.41	- 1	32.11	+ 7
18	63.02	+ 4	7.52	- 6	50.57	0	18.40	- 6	53.26	- 2	31.89	+ 5
19	63.54	+ 6	7.53	- 4	50.72	+ 1	18.19	- 5	53.12	- 2	31.67	+ 3
20	64.05	+ 7	7.55	- 1	50.88	+ 2	17.98	- 4	52.97	- 2	31.44	0
21	64.56	+ 7	7.58	+ 2	51.03	+ 3	17.78	- 1	52.83	- 1	31.21	- 2
22	65.07	+ 5	7.61	+ 5	51.19	+ 3	17.58	+ 2	52.69	0	30.98	- 5
sec δ, tg δ	87° 10' 0"	20.230	+20.206		81° 40' 20"	6.904	+6.832		82° 10' 30"	7.345	+7.277	
	10	20.250	+20.225		30	6.907	+6.834		40	7.348	+7.279	

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.
1920	17 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+86° 37'	in 0.01	18 <sup>h</sup> 57 <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
Sept. 15	47.41	+4	16.82	-2	90.25	+15	46.77	-3	33.49	0	40.91	-4
16	46.99	+5	16.86	+1	88.86	+19	46.90	0	33.37	+1	41.19	-2
17	46.56	+4	16.89	+4	87.45	+19	47.03	+3	33.25	+2	41.47	+1
18	46.14	+2	16.92	+6	86.04	+14	47.15	+5	33.12	+3	41.74	+3
19	45.71	0	16.94	+7	84.62	+8	47.27	+7	33.00	+2	42.02	+5
20	45.29	-2	16.96	+7	83.20	0	47.39	+7	32.87	+2	42.28	+6
21	44.86	-4	16.97	+6	81.77	-8	47.50	+6	32.74	+1	42.55	+7
22	44.44	-5	16.98	+3	80.33	-15	47.60	+4	32.61	0	42.81	+5
23	44.01	-5	16.98	0	78.89	-18	47.70	+2	32.47	-1	43.07	+4
24	43.59	-4	16.98	-2	77.44	-19	47.80	-1	32.34	-2	43.32	+1
25	43.16	-3	16.97	-5	75.99	-16	47.89	-4	32.20	-2	43.57	-2
26	42.74	0	16.96	-7	74.54	-8	47.98	-7	32.06	-2	43.82	-5
27	42.32	+3	16.94	-7	73.08	+2	48.06	-8	31.92	-2	44.06	-7
28	41.89	+6	16.92	-6	71.61	+14	48.14	-8	31.78	-1	44.30	-9
29	41.47	+8	16.89	-4	70.14	+25	48.21	-6	31.64	+1	44.53	-8
Okt. 30	41.04	+9	16.86	0	68.67	+32	48.28	-2	31.49	+2	44.76	-6
1	40.62	+8	16.82	+3	67.19	+32	48.34	+1	31.35	+3	44.99	-3
2	40.20	+5	16.78	+6	65.71	+26	48.40	+5	31.20	+3	45.21	+1
3	39.78	+2	16.73	+8	64.22	+14	48.45	+7	31.06	+3	45.43	+5
4	39.35	-3	16.68	+8	62.74	-2	48.50	+8	30.91	+2	45.64	+8
5	38.93	-6	16.62	+5	61.25	-17	48.55	+7	30.76	0	45.85	+8
6	38.51	-8	16.56	+2	59.76	-29	48.59	+4	30.61	-1	46.05	+7
7	38.09	-8	16.49	-2	58.27	-34	48.62	0	30.46	-3	46.25	+4
8	37.67	-7	16.42	-6	56.78	-31	48.65	-4	30.30	-3	46.44	0
9	37.25	-4	16.34	-8	55.28	-23	48.67	-7	30.15	-4	46.63	-3
10	36.84	-1	16.26	-8	53.79	-11	48.69	-8	29.99	-3	46.81	-5
11	36.42	+2	16.17	-6	52.30	+2	48.70	-7	29.83	-2	46.99	-6
12	36.01	+4	16.08	-4	50.81	+13	48.71	-4	29.68	0	47.17	-5
13	35.60	+5	15.98	0	49.32	+19	48.71	-1	29.52	+1	47.34	-3
14	35.19	+5	15.88	+3	47.84	+20	48.71	+2	29.35	+2	47.51	-1
15	34.78	+3	15.77	+5	46.35	+17	48.70	+5	29.19	+2	47.67	+2
16	34.38	+1	15.66	+7	44.87	+11	48.69	+6	29.03	+3	47.83	+4
17	33.98	-1	15.54	+7	43.39	+3	48.67	+7	28.86	+2	47.98	+6
18	33.58	-3	15.42	+6	41.91	-5	48.65	+7	28.70	+1	48.13	+6
19	33.18	-4	15.29	+4	40.43	-12	48.62	+5	28.53	0	48.27	+6
20	32.78	-5	15.16	+2	38.95	-16	48.59	+3	28.37	-1	48.41	+4
21	32.39	-5	15.02	-1	37.48	-18	48.55	0	28.20	-1	48.54	+2
22	32.00	-3	14.88	-4	36.01	-16	48.50	-3	28.03	-2	48.67	-1
sec δ, tg δ	86° 37' 10"	16.958	+16.929		89° 1' 40"	58.936	+58.927		82° 14' 40"	7.410	+7.343	
	20	16.972	+16.943		50	59.104	+59.096		50	7.413	+7.345	

Tag	43 Hev. Cephei 4 <sup>m</sup> .3				α Ursae minoris 2 <sup>m</sup> .0				Gr. 75c 6 <sup>m</sup> .8			
	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1920	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° 52'	in 0.01	4 <sup>h</sup> 11 <sup>m</sup>	in 0.01	+85° 20'	in 0.01
Okt. 22	63.17	-3	6.99	+4	38.33	-11	57.30	+5	29.26	0	30.92	+6
23	63.14	-6	7.36	+2	38.37	-21	57.68	+3	29.46	-3	31.20	+6
24	63.10	-8	7.73	-1	38.39	-27	58.05	0	29.67	-6	31.48	+5
25	63.05	-8	8.09	-4	38.40	-29	58.42	-3	29.87	-8	31.76	+3
26	63.00	-7	8.45	-7	38.39	-25	58.80	-6	30.07	-9	32.04	0
27	62.94	-4	8.82	-9	38.37	-16	59.17	-8	30.26	-8	32.33	-4
28	62.88	0	9.17	-9	38.32	-2	59.54	-9	30.45	-6	32.62	-7
29	62.82	+3	9.53	-7	38.26	+11	59.91	-8	30.64	-2	32.92	-9
30	62.75	+6	9.89	-4	38.18	+23	60.28	-5	30.82	+2	33.21	-8
31	62.68	+8	10.24	0	38.08	+28	60.65	-1	31.00	+5	33.51	-5
Nov. 1	62.60	+7	10.59	+5	37.96	+27	61.01	+4	31.17	+8	33.81	-1
2	62.52	+5	10.95	+8	37.82	+19	61.38	+7	31.35	+8	34.11	+2
3	62.43	+2	11.29	+10	37.66	+7	61.74	+9	31.51	+7	34.42	+6
4	62.34	-2	11.64	+9	37.49	-6	62.11	+9	31.68	+4	34.73	+9
5	62.24	-5	11.98	+7	37.30	-17	62.47	+8	31.84	+1	35.04	+9
6	62.14	-7	12.32	+3	37.09	-23	62.84	+4	32.00	-2	35.35	+8
7	62.03	-7	12.66	0	36.86	-24	63.20	+1	32.15	-4	35.66	+5
8	61.92	-5	13.00	-3	36.62	-18	63.55	-2	32.30	-5	35.98	+1
9	61.81	-2	13.33	-5	36.36	-8	63.91	-5	32.44	-5	36.30	-2
10	61.69	+1	13.66	-5	36.08	+2	64.26	-6	32.58	-3	36.62	-5
11	61.57	+3	13.99	-5	35.78	+12	64.61	-5	32.72	-1	36.94	-6
12	61.44	+6	14.31	-3	35.47	+20	64.96	-4	32.85	+2	37.26	-7
13	61.31	+7	14.63	-1	35.13	+24	65.31	-2	32.98	+4	37.58	-6
14	61.17	+7	14.95	+1	34.78	+24	65.65	0	33.10	+5	37.91	-4
15	61.03	+5	15.27	+3	34.41	+19	65.99	+2	33.22	+5	38.24	-2
16	60.89	+3	15.58	+4	34.02	+13	66.33	+4	33.33	+5	38.56	+1
17	60.74	+1	15.89	+5	33.62	+3	66.66	+5	33.44	+3	38.89	+3
18	60.59	-2	16.19	+4	33.19	-8	67.00	+5	33.54	+1	39.22	+5
19	60.43	-5	16.49	+3	32.75	-18	67.33	+3	33.64	-2	39.55	+6
20	60.27	-7	16.79	0	32.29	-26	67.66	+1	33.73	-5	39.88	+6
21	60.10	-8	17.08	-3	31.81	-30	67.98	-2	33.82	-7	40.21	+4
22	59.93	-8	17.37	-6	31.32	-28	68.31	-5	33.91	-9	40.54	+1
23	59.76	-6	17.65	-9	30.81	-21	68.63	-8	33.99	-9	40.88	-3
24	59.58	-2	17.93	-10	30.29	-9	68.95	-9	34.07	-7	41.21	-6
25	59.40	+2	18.21	-8	29.75	+5	69.26	-9	34.14	-4	41.55	-8
26	59.21	+5	18.48	-6	29.19	+18	69.57	-7	34.21	0	41.88	-8
27	59.02	+7	18.75	-2	28.61	+27	69.88	-3	34.27	+4	42.22	-7
28	58.83	+8	19.01	+3	28.02	+29	70.18	+2	34.33	+7	42.55	-3
sec δ, tg δ	85° 50' 10"	13.772	+13.736	88° 52' 60"	51.313	+51.303	85° 20' 30"	12.313	+12.273			
	20	13.781	+13.745	70	51.441	+51.431	40	12.321	+12.280			

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.
1920	7 <sup>h</sup> 4 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 25 <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
Okt. 22	5.07	+ 5	7.61	+ 5	51.19	+ 3	17.58	+ 2	52.69	0	30.98	- 5
23	5.58	+ 2	7.64	+ 7	51.34	+ 2	17.39	+ 5	52.55	0	30.74	- 6
24	6.09	- 2	7.68	+ 8	51.50	+ 1	17.20	+ 7	52.42	+ 1	30.50	- 7
25	6.60	- 7	7.73	+ 8	51.66	- 1	17.02	+ 9	52.28	+ 2	30.25	- 5
26	7.11	- 11	7.78	+ 6	51.82	- 3	16.84	+ 9	52.15	+ 3	30.00	- 3
27	7.61	- 13	7.84	+ 2	51.98	- 4	16.66	+ 7	52.02	+ 3	29.74	0
28	8.11	- 13	7.90	- 2	52.14	- 5	16.49	+ 3	51.89	+ 3	29.48	+ 4
29	8.61	- 9	7.96	- 5	52.30	- 4	16.32	- 1	51.77	+ 1	29.22	+ 7
30	9.11	- 4	8.03	- 7	52.47	- 3	16.16	- 5	51.64	0	28.95	+ 8
31	9.60	+ 2	8.11	- 8	52.63	- 1	16.00	- 7	51.52	- 1	28.68	+ 7
Nov. 1	10.10	+ 8	8.19	- 7	52.80	+ 2	15.85	- 8	51.40	- 2	28.41	+ 5
2	10.59	+ 13	8.27	- 4	52.96	+ 4	15.71	- 8	51.28	- 3	28.13	+ 1
3	11.08	+ 14	8.36	0	53.13	+ 5	15.57	- 5	51.17	- 3	27.85	- 3
4	11.57	+ 13	8.46	+ 4	53.30	+ 5	15.43	- 2	51.05	- 2	27.57	- 7
5	12.06	+ 9	8.56	+ 6	53.47	+ 4	15.30	+ 2	50.94	- 1	27.28	- 8
6	12.54	+ 4	8.66	+ 7	53.64	+ 3	15.17	+ 4	50.83	0	26.99	- 9
7	13.02	- 1	8.77	+ 7	53.81	+ 1	15.05	+ 6	50.73	+ 1	26.69	- 7
8	13.49	- 5	8.89	+ 4	53.98	- 1	14.94	+ 5	50.63	+ 2	26.40	- 4
9	13.96	- 8	9.01	+ 1	54.15	- 2	14.83	+ 4	50.53	+ 2	26.10	0
10	14.43	- 8	9.13	- 2	54.32	- 3	14.72	+ 1	50.43	+ 1	25.79	+ 3
11	14.90	- 7	9.26	- 5	54.49	- 3	14.62	- 1	50.33	+ 1	25.49	+ 5
12	15.36	- 4	9.40	- 6	54.66	- 3	14.53	- 4	50.23	0	25.18	+ 7
13	15.82	- 1	9.54	- 7	54.83	- 2	14.44	- 5	50.14	- 1	24.87	+ 7
14	16.27	+ 2	9.68	- 7	55.00	- 1	14.35	- 6	50.05	- 1	24.56	+ 6
15	16.72	+ 5	9.83	- 5	55.17	+ 1	14.27	- 6	49.96	- 2	24.24	+ 4
16	17.16	+ 7	9.99	- 2	55.34	+ 2	14.20	- 4	49.88	- 2	23.92	+ 1
17	17.60	+ 7	10.14	+ 1	55.52	+ 3	14.13	- 2	49.79	- 1	23.59	- 1
18	18.04	+ 6	10.31	+ 4	55.69	+ 3	14.07	+ 1	49.72	- 1	23.27	- 4
19	18.47	+ 3	10.48	+ 6	55.86	+ 2	14.01	+ 4	49.64	0	22.94	- 6
20	18.90	- 1	10.65	+ 8	56.03	+ 1	13.96	+ 7	49.57	+ 1	22.61	- 6
21	19.32	- 6	10.82	+ 8	56.21	0	13.91	+ 9	49.50	+ 2	22.28	- 6
22	19.74	- 10	11.01	+ 7	56.38	- 2	13.87	+ 9	49.43	+ 3	21.94	- 4
23	20.15	- 13	11.19	+ 4	56.56	- 4	13.83	+ 8	49.36	+ 3	21.61	- 1
24	20.56	- 14	11.38	0	56.73	- 5	13.80	+ 5	49.30	+ 3	21.27	+ 3
25	20.96	- 12	11.57	- 4	56.90	- 5	13.78	+ 1	49.24	+ 2	20.93	+ 6
26	21.36	- 7	11.77	- 7	57.07	- 4	13.76	- 3	49.18	+ 1	20.59	+ 8
27	21.75	- 1	11.97	- 8	57.24	- 2	13.74	- 6	49.13	- 1	20.24	+ 8
28	22.14	+ 6	12.18	- 8	57.41	+ 1	13.74	- 8	49.08	- 2	19.90	+ 6
sec δ, tg δ	87° 10' 0"	20.230	+20.206		81° 40' 10"	6.901	+6.830		82° 10' 20"	7.342	+7.274	
	10	20.250	+20.225		20	6.904	+6.832		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.
1920	17 <sup>h</sup> 57 <sup>m</sup>	in 0.01	+86° 37'	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
Okt. 22	32.00	-3	14.88	-4	96.01	-16	48.50	-3	28.03	-2	48.67	-1
23	31.61	-1	14.73	-6	94.55	-10	48.45	-6	27.86	-2	48.79	-4
24	31.23	+2	14.58	-7	93.09	-1	48.40	-8	27.70	-2	48.90	-7
25	30.85	+5	14.43	-7	91.64	+11	48.34	-8	27.53	-1	49.01	-8
26	30.47	+7	14.27	-5	90.19	+22	48.28	-7	27.36	0	49.12	-9
27	30.09	+9	14.11	-2	88.75	+30	48.21	-4	27.19	+1	49.22	-7
28	29.72	+8	13.94	+2	87.31	+33	48.14	0	27.02	+3	49.31	-4
29	29.35	+6	13.76	+5	85.88	+29	48.06	+4	26.85	+3	49.40	0
30	28.99	+3	13.59	+7	84.46	+18	47.98	+7	26.68	+3	49.49	+4
31	28.63	-1	13.40	+8	83.04	+3	47.89	+8	26.51	+2	49.56	+7
Nov. 1	28.27	-5	13.22	+6	81.63	-13	47.79	+8	26.34	+1	49.64	+8
2	27.91	-8	13.03	+3	80.23	-27	47.69	+5	26.16	-1	49.71	+8
3	27.56	-9	12.83	-1	78.84	-35	47.58	+2	25.99	-2	49.77	+5
4	27.21	-8	12.63	-5	77.46	-35	47.47	-2	25.82	-3	49.83	+2
5	26.87	-6	12.43	-7	76.08	-29	47.36	-5	25.65	-4	49.88	-2
6	26.53	-3	12.22	-8	74.71	-17	47.24	-7	25.48	-3	49.92	-4
7	26.20	+1	12.01	-7	73.36	-4	47.11	-7	25.31	-2	49.96	-6
8	25.87	+3	11.79	-5	72.01	+8	46.98	-5	25.14	-1	50.00	-6
9	25.54	+5	11.57	-2	70.68	+17	46.85	-3	24.96	+1	50.02	-4
10	25.22	+5	11.35	+2	69.35	+20	46.71	+1	24.79	+2	50.04	-2
11	24.90	+4	11.12	+5	68.04	+19	46.56	+4	24.62	+2	50.06	+1
12	24.59	+2	10.89	+6	66.74	+14	46.41	+6	24.45	+3	50.07	+4
13	24.28	0	10.65	+7	65.45	+6	46.26	+7	24.27	+2	50.07	+6
14	23.98	-2	10.41	+7	64.17	-2	46.10	+7	24.10	+2	50.07	+6
15	23.68	-4	10.16	+5	62.91	-9	45.94	+6	23.93	+1	50.06	+6
16	23.39	-5	9.91	+2	61.66	-15	45.77	+4	23.76	0	50.05	+5
17	23.10	-5	9.65	0	60.42	-17	45.60	+1	23.59	-1	50.03	+3
18	22.82	-4	9.40	-3	59.20	-17	45.42	-2	23.43	-2	50.00	0
19	22.55	-2	9.13	-5	57.99	-12	45.24	-5	23.26	-2	49.97	-3
20	22.28	+1	8.87	-7	56.79	-3	45.05	-7	23.09	-2	49.93	-6
21	22.01	+4	8.60	-7	55.61	+8	44.86	-8	22.92	-2	49.89	-8
22	21.75	+7	8.33	-6	54.44	+20	44.66	-8	22.76	0	49.84	-9
23	21.50	+9	8.05	-3	53.29	+29	44.46	-6	22.59	+1	49.79	-8
24	21.25	+9	7.77	0	52.16	+35	44.25	-2	22.43	+2	49.73	-6
25	21.00	+8	7.49	+4	51.04	+33	44.04	+2	22.26	+3	49.66	-2
26	20.76	+5	7.20	+7	49.94	+25	43.83	+5	22.10	+3	49.59	+2
27	20.53	+1	6.92	+8	48.85	+11	43.61	+8	21.94	+3	49.51	+6
28	20.31	-3	6.62	+7	47.78	-6	43.39	+8	21.77	+2	49.42	+8
sec δ, tg δ	86° 37' 10" 20	16.958 16.972	+16.929 +16.943		89° 1' 40" 50	58.936 59.104	+58.927 +59.096		82° 14' 40" 50	7.410 7.413	+7.343 +7.345	



# 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.
1920	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° 20'	in 0.01
Nov. 28	58.83	+ 8	19.01	+ 3	88.02	+29	10.18	+ 2	34.33	+ 7	42.55	- 3
29	58.63	+ 7	19.27	+ 7	87.41	+24	10.48	+ 6	34.38	+ 9	42.89	+ 1
30	58.43	+ 3	19.52	+ 9	86.78	+13	10.77	+ 9	34.43	+ 8	43.22	+ 5
Dez. 1	58.23	0	19.77	+10	86.14	0	11.06	+10	34.47	+ 6	43.56	+ 8
2	58.02	- 4	20.02	+ 8	85.48	-12	11.35	+ 9	34.50	+ 3	43.89	+ 9
3	57.81	- 6	20.26	+ 5	84.81	-21	11.63	+ 6	34.53	0	44.22	+ 9
4	57.60	- 7	20.50	+ 2	84.12	-23	11.91	+ 3	34.56	- 3	44.56	+ 6
5	57.38	- 6	20.73	- 2	83.41	-21	12.18	- 1	34.58	- 5	44.89	+ 3
6	57.16	- 3	20.95	- 4	82.69	-12	12.45	- 4	34.60	- 5	45.22	- 1
7	56.94	0	21.17	- 5	81.96	- 2	12.71	- 5	34.61	- 3	45.55	- 4
8	56.71	+ 3	21.39	- 5	81.21	+ 9	12.97	- 5	34.62	- 1	45.88	- 6
9	56.48	+ 5	21.60	- 4	80.45	+18	13.23	- 4	34.62	+ 1	46.21	- 7
10	56.24	+ 6	21.80	- 2	79.67	+23	13.48	- 2	34.62	+ 3	46.54	- 6
11	56.01	+ 7	22.00	+ 1	78.88	+24	13.73	0	34.61	+ 5	46.87	- 5
12	55.76	+ 6	22.20	+ 3	78.07	+21	13.97	+ 2	34.60	+ 5	47.20	- 2
13	55.52	+ 4	22.39	+ 4	77.25	+16	14.21	+ 3	34.58	+ 5	47.53	0
14	55.27	+ 2	22.57	+ 5	76.41	+ 8	14.44	+ 4	34.55	+ 4	47.86	+ 2
15	55.02	- 1	22.75	+ 5	75.56	- 3	14.67	+ 5	34.52	+ 2	48.18	+ 4
16	54.77	- 4	22.92	+ 3	74.70	-13	14.89	+ 4	34.49	0	48.51	+ 6
17	54.52	- 6	23.09	+ 1	73.83	-22	15.11	+ 2	34.45	- 4	48.82	+ 6
18	54.26	- 8	23.25	- 2	72.95	-29	15.32	- 1	34.41	- 7	49.14	+ 4
19	54.00	- 8	23.40	- 5	72.05	-30	15.52	- 4	34.36	- 9	49.46	+ 2
20	53.74	- 7	23.55	- 8	71.14	-25	15.72	- 7	34.31	-10	49.77	- 2
21	53.48	- 4	23.70	-10	70.22	-15	15.91	- 9	34.25	- 9	50.08	- 5
22	53.21	0	23.83	-10	69.29	- 2	16.10	-10	34.18	- 6	50.40	- 8
23	52.94	+ 3	23.96	- 8	68.35	+11	16.28	- 8	34.11	- 3	50.70	- 9
24	52.67	+ 6	24.09	- 4	67.39	+22	16.46	- 5	34.04	+ 2	51.01	- 8
25	52.40	+ 8	24.21	0	66.43	+28	16.63	- 1	33.96	+ 5	51.31	- 5
26	52.12	+ 7	24.32	+ 5	65.45	+26	16.80	+ 4	33.87	+ 8	51.62	- 1
27	51.85	+ 5	24.43	+ 8	64.47	+18	16.96	+ 8	33.79	+ 8	51.91	+ 3
28	51.57	+ 1	24.53	+10	63.47	+ 5	17.11	+10	33.69	+ 7	52.21	+ 7
29	51.29	- 2	24.62	+ 9	62.47	- 7	17.26	+10	33.59	+ 4	52.50	+ 9
30	51.02	- 5	24.71	+ 7	61.46	-18	17.40	+ 8	33.49	+ 1	52.79	+ 9
31	50.74	- 7	24.79	+ 4	60.44	-22	17.54	+ 5	33.39	- 2	53.08	+ 8
32	50.45	- 6	24.86	0	59.41	-22	17.67	+ 1	33.27	- 4	53.37	+ 4
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	13.790	+13.754		20	51.570	+51.559		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.
1920	7 <sup>h</sup> 4 <sup>m</sup>	in 0.01	+87° 10'	in 0.01	9 <sup>h</sup> 25 <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
Nov. 28	22.14	+ 6	12.18	- 8	57.41	+ 1	13.74	- 8	49.08	- 2	19.90	+ 6
29	22.52	+ 11	12.39	- 5	57.58	+ 3	13.74	- 8	49.04	- 3	19.56	+ 3
30	22.89	+ 14	12.61	- 1	57.75	+ 5	13.74	- 6	48.99	- 3	19.21	- 1
Dez. 1	23.26	+ 14	12.83	+ 2	57.92	+ 6	13.75	- 3	48.95	- 3	18.86	- 5
2	23.62	+ 12	13.05	+ 5	58.09	+ 5	13.77	0	48.91	- 2	18.51	- 8
3	23.98	+ 7	13.28	+ 7	58.26	+ 4	13.79	+ 3	48.87	0	18.16	- 9
4	24.33	+ 1	13.51	+ 7	58.43	+ 2	13.82	+ 5	48.84 48.81	+ 1 + 1	17.81 17.46	- 8 - 5
5	24.67	- 3	13.75	+ 5	58.60	0	13.85	+ 5	48.78	+ 2	17.11	- 2
6	25.01	- 6	13.98	+ 2	58.76	- 2	13.89	+ 4	48.76	+ 1	16.75	+ 2
7	25.34	- 7	14.23	- 1	58.93	- 3	13.94	+ 2	48.74	+ 1	16.40	+ 5
8	25.66	- 7	14.47	- 4	59.10	- 3	13.99	- 1	48.72	0	16.04	+ 6
9	25.98	- 5	14.72	- 6	59.26	- 3	14.05	- 3	48.71	- 1	15.69	+ 7
10	26.29	- 1	14.97	- 7	59.42	- 2	14.11	- 5	48.70	- 1	15.33	+ 6
11	26.59	+ 2	15.23	- 7	59.58	- 1	14.18	- 6	48.69	- 2	14.98	+ 4
12	26.89	+ 5	15.49	- 5	59.74	0	14.25	- 6	48.69	- 2	14.62	+ 2
13	27.18	+ 6	15.75	- 3	59.90	+ 1	14.33	- 5	48.69	- 2	14.27	0
14	27.46	+ 7	16.02	- 1	60.06	+ 2	14.42	- 3	48.69	- 1	13.91	- 3
15	27.73	+ 6	16.29	+ 2	60.22	+ 3	14.51	0	48.70	0	13.55	- 5
16	28.00	+ 4	16.56	+ 5	60.37	+ 3	14.61	+ 3	48.71	+ 1	13.20	- 6
17	28.25	0	16.84	+ 7	60.52	+ 2	14.71	+ 6	48.72	+ 2	12.84	- 6
18	28.50	- 4	17.12	+ 8	60.68	0	14.82	+ 8	48.73	+ 3	12.49	- 4
19	28.74	- 9	17.40	+ 8	60.83	- 2	14.94	+ 10	48.75	+ 3	12.14	- 2
20	28.98	- 13	17.69	+ 5	60.98	- 3	15.05	+ 9	48.77	+ 3	11.78	+ 1
21	29.20	- 15	17.97	+ 2	61.13	- 5	15.18	+ 7	48.79	+ 3	11.43	+ 5
22	29.42	- 14	18.26	- 2	61.28	- 5	15.31	+ 4	48.82	+ 1	11.09	+ 7
23	29.64	- 10	18.55	- 5	61.42	- 5	15.44	- 1	48.85	0	10.74	+ 8
24	29.84	- 4	18.85	- 7	61.57	- 3	15.58	- 5	48.88	- 1	10.39	+ 7
25	30.03	+ 2	19.15	- 8	61.71	- 1	15.73	- 7	48.92	- 2	10.04	+ 4
26	30.22	+ 9	19.44	- 6	61.85	+ 2	15.88	- 8	48.96	- 3	9.70	0
27	30.40	+ 13	19.75	- 3	61.99	+ 4	16.03	- 7	49.00	- 3	9.36	- 4
28	30.57	+ 15	20.05	+ 1	62.13	+ 5	16.19	- 5	49.05	- 2	9.02	- 7
29	30.73	+ 13	20.35	+ 4	62.26	+ 5	16.36	- 1	49.10	- 1	8.68	- 9
30	30.88	+ 9	20.66	+ 7	62.40	+ 5	16.53	+ 2	49.15	0	8.35	- 9
31	31.03	+ 4	20.97	+ 7	62.53	+ 3	16.71	+ 4	49.20	+ 1	8.01	- 7
32	31.16	- 1	21.27	+ 6	62.66	+ 1	16.89	+ 5	49.26	+ 2	7.68	- 4
sec δ, tg δ	87° 10' 10"	20.250	+ 20.225		81° 40' 10"	6.901	+ 6.830		82° 10' 10"	7.340	+ 7.271	
	20	20.270	+ 20.245		20	6.904	+ 6.832		20	7.342	+ 7.274	

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.
1920	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
Nov. 28	20.31	-3	66.62	+7	47.78	-6	43.39	+8	21.77	+2	49.42	+8
29	20.09	-7	66.33	+5	46.73	-22	43.16	+6	21.61	0	49.33	+8
30	19.88	-9	66.03	+1	45.70	-33	42.93	+3	21.45	-2	49.24	+7
Dez. 1	19.67	-9	65.73	-3	44.69	-38	42.69	0	21.29	-3	49.14	+4
2	19.47	-7	65.43	-6	43.69	-34	42.45	-4	21.13	-4	49.03	0
3	19.27	-4	65.13	-8	42.71	-24	42.21	-6	20.98	-4	48.92	-3
4	19.08	-1	64.82	-8	41.75	-12	41.96	-7	20.83	-3	48.80	-5
5	18.90	+2	64.51	-6	40.81	+2	41.71	-6	20.68	-1	48.67	-6
6	18.72	+4	64.20	-3	39.89	+12	41.46	-4	20.53	0	48.54	-5
7	18.56	+5	63.88	0	38.99	+18	41.20	-1	20.38	+1	48.40	-3
8	18.39	+4	63.57	+4	38.12	+19	40.94	+3	20.23	+2	48.26	0
9	18.24	+2	63.25	+6	37.26	+15	40.67	+5	20.08	+2	48.11	+3
10	18.09	0	62.93	+7	36.42	+9	40.40	+7	19.94	+2	47.96	+5
11	17.95	-2	62.61	+7	35.60	0	40.13	+7	19.79	+2	47.80	+6
12	17.81	-3	62.28	+5	34.81	-7	39.86	+6	19.65	+1	47.64	+6
13	17.69	-4	61.96	+3	34.03	-14	39.58	+5	19.51	0	47.47	+6
14	17.56	-5	61.63	+1	33.28	-17	39.30	+2	19.38	-1	47.30	+4
15	17.45	-4	61.30	-2	32.55	-18	39.01	-1	19.24	-2	47.12	+1
16	17.34	-3	60.97	-4	31.84	-14	38.72	-4	19.11	-2	46.94	-2
17	17.24	0	60.64	-6	31.16	-6	38.43	-6	18.97	-2	46.75	-5
18	17.15	+3	60.31	-7	30.50	+4	38.13	-8	18.84	-2	46.56	-7
19	17.06	+6	59.97	-6	29.86	+16	37.84	-8	18.71	-1	46.36	-9
20	{ 16.99 16.92	{ +9 +10	{ 59.64 59.30	{ -4 -1	29.25	+28	37.54	-7	18.59	0	46.15	-9
21	16.85	+9	58.97	+2	28.66	+36	37.24	-4	18.46	+2	45.95	-7
22	16.80	+7	58.63	+6	28.09	+37	36.93	0	18.34	+3	45.73	-4
23	16.75	+3	58.29	+8	27.55	+32	36.63	+4	18.22	+3	45.51	0
24	16.71	-1	57.95	+8	27.03	+20	36.32	+7	18.10	+3	45.29	+4
25	16.68	-5	57.61	+6	26.53	+4	36.01	+8	17.98	+2	45.06	+7
26	16.65	-8	57.28	+3	26.06	-14	35.70	+7	17.86	+1	44.83	+8
27	16.63	-9	56.94	-1	25.62	-28	35.39	+5	17.75	-1	44.59	+7
28	16.62	-8	56.60	-5	25.20	-36	35.07	+1	17.64	-2	44.35	+5
29	16.61	-6	56.26	-8	24.80	-36	34.76	-3	17.54	-4	44.10	+2
30	16.61	-3	55.92	-8	24.43	-30	34.44	-6	17.43	-4	43.85	-2
31	16.62	0	55.58	-7	24.09	-18	34.12	-7	17.33	-3	43.59	-4
32	16.64	+3	55.24	-4	23.77	-5	33.80	-7	17.23	-2	43.33	-5
sec δ, tg δ	86° 36' 60"	16.945	+16.915	89° 1' 30"	58.768	+58.759	82° 14' 40"	7.410	+7.343			
	70	16.958	+16.929	40	58.936	+58.927	50	7.413	+7.345			

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.
1920	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 10'	in 0.01	9 <sup>h</sup> 8 <sup>m</sup>	in 0.01	-85° 20'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	-84° 41'	in 0.01
Jan. 0	50.83	+3	44.00	-8	48.95	+3	36.98	+8	30.59	-3	5.39	+10
1	50.56	0	44.04	-9	49.09	+5	37.31	+4	30.85	0	5.47	+9
2	50.29	-3	44.07	-9	49.22	+7	37.65	0	31.12	+3	5.55	+7
3	50.02	-5	44.09	-6	49.35	+6	37.98	-4	31.38	+5	5.64	+3
4	49.75	-6	44.11	-3	49.47	+4	38.32	-7	31.64	+7	5.74	-2
5	49.47	-6	44.12	+2	49.58	+1	38.67	-9	31.90	+6	5.84	-6
6	49.20	-4	44.13	+7	49.70	-2	39.01	-9	32.16	+4	5.95	-9
7	48.93	-2	44.13	+10	49.80	-5	39.36	-6	32.41	+2	6.06	-10
8	48.66	+1	44.12	+11	49.90	-7	39.71	-3	32.67	-1	6.18	-10
9	48.38	+4	44.10	+9	50.00	-7	40.06	0	32.93	-4	6.31	-7
10	48.11	+5	44.08	+7	50.09	-6	40.42	+3	33.18	-5	6.44	-4
11	47.83	+5	44.05	+4	50.18	-4	40.78	+5	33.43	-5	6.58	-1
12	47.56	+4	44.02	0	50.26	-2	41.14	+5	33.68	-4	6.72	+2
13	47.28	+3	43.98	-3	50.34	+1	41.50	+5	33.94	-2	6.87	+5
14	47.01	+1	43.93	-5	50.42	+3	41.87	+3	34.19	0	7.02	+6
15	46.74	-2	43.88	-6	50.49	+5	42.23	0	34.43	+2	7.18	+5
16	46.46	-3	43.82	-6	50.55	+5	42.60	-2	34.68	+4	7.35	+4
17	46.19	-5	43.76	-5	50.61	+5	42.97	-4	34.93	+5	7.52	+2
18	45.92	-5	43.69	-3	50.67	+4	43.34	-5	35.17	+5	7.70	0
19	45.64	-5	43.61	0	50.72	+2	43.71	-6	35.42	+5	7.88	-2
20	45.37	-4	43.53	+2	50.76	0	44.09	-5	35.66	+3	8.07	-4
21	45.10	-2	43.44	+4	50.80	-2	44.46	-4	35.90	+1	8.26	-5
22	44.83	+1	43.35	+5	50.84	-4	44.84	-1	36.14	-1	8.46	-5
23	44.55	+3	43.25	+5	50.87	-5	45.22	+2	36.37	-4	8.67	-3
24	44.28	+5	43.14	+4	50.90	-4	45.59	+6	36.61	-6	8.88	-1
25	44.02	+6	43.03	+1	50.92	-3	45.97	+8	36.84	-7	9.09	+3
26	43.75	+6	42.91	-3	50.94	-1	46.35	+9	37.07	-6	9.31	+6
27	43.48	+4	42.79	-6	50.95	+2	46.73	+9	37.30	-4	9.54	+9
28	43.22	+2	42.66	-9	50.95	+5	47.11	+6	37.52	-1	9.77	+9
29	42.95	-1	42.52	-9	50.95	+6	47.50	+2	37.75	+2	10.00	+8
30	42.69	-4	42.38	-8	50.95	+6	47.88	-2	37.97	+5	10.24	+5
31	42.43	-6	42.23	-5	50.94	+5	48.26	-6	38.19	+6	10.49	+1
Febr. 1	42.17	-6	42.08	0	50.92	+2	48.64	-8	38.41	+6	10.74	-4
2	41.91	-5	41.92	+4	50.91	-1	49.03	-9	38.63	+5	11.00	-7
3	41.66	-3	41.76	+8	50.88	-4	49.41	-7	38.84	+3	11.26	-9
4	41.40	0	41.59	+10	50.85	-6	49.79	-4	39.05	0	11.52	-10
5	41.15	+3	41.42	+10	50.82	-7	50.17	0	39.26	-3	11.79	-8
6	40.89	+5	41.24	+8	50.79	-7	50.56	+3	39.46	-5	12.06	-5

sec δ, tg δ    85° 10' 40" 11.896 | -11.854    85° 20' 40" 12.321 | -12.280    84° 41' 0" 10.792 | -10.746  
                   50 11.902 | -11.860                   50 12.328 | -12.287                   10 10.798 | -10.751

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.
1920	14 <sup>h</sup> 47 <sup>m</sup>	in 0.01	-87° 49'	in 0.01	16 <sup>h</sup> 30 <sup>m</sup>	in 0.01	-86° 13'	in 0.01	18 <sup>h</sup> 7 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
Jan. 0	25.11	-13	18.40	+ 7	36.84	-11	7.03	+ 4	36.02	-18	41.66	0
1	25.70	- 6	18.29	+ 9	37.10	- 7	6.79	+ 7	36.23	-15	41.27	+ 4
2	26.30	+ 2	18.18	+ 9	37.36	- 3	6.55	+ 9	36.45	- 9	40.95	+ 7
3	26.91	+10	18.07	+ 7	37.63	+ 3	6.31	+ 8	36.68	- 1	40.63	+ 9
4	27.51	+15	17.98	+ 3	37.91	+ 7	6.08	+ 6	36.92	+ 7	40.31	+ 8
5	28.13	+17	17.89	- 2	38.19	+10	5.86	+ 2	37.17	+14	39.99	+ 5
6	28.74	+15	17.80	- 6	38.47	+11	5.63	- 3	37.43	+18	39.67	+ 1
7	29.36	+10	17.72	- 9	38.76	+10	5.42	- 6	37.70	+18	39.35	- 3
8	29.99	+ 4	17.65	-10	39.06	+ 7	5.20	- 9	37.98	+15	39.04	- 6
9	30.62	- 2	17.58	- 9	39.36	+ 3	4.99	- 9	38.27	+10	38.73	- 8
10	31.25	- 7	17.52	- 7	39.66	- 1	4.79	- 8	38.57	+ 4	38.42	- 8
11	31.89	-10	17.46	- 4	39.97	- 4	4.59	- 6	38.88	- 2	38.11	- 6
12	32.52	-10	17.41	0	40.28	- 5	4.40	- 2	39.20	- 7	37.81	- 4
13	33.17	- 8	17.37	+ 3	40.60	- 6	4.20	+ 1	39.52	- 9	37.51	- 1
14	33.81	- 4	17.33	+ 5	40.92	- 5	4.02	+ 4	39.86	- 9	37.21	+ 2
15	34.45	+ 1	17.30	+ 7	41.24	- 3	3.84	+ 6	40.20	- 8	36.92	+ 5
16	35.10	+ 5	17.27	+ 7	41.57	0	3.66	+ 7	40.55	- 5	36.62	+ 7
17	35.75	+ 8	17.25	+ 5	41.90	+ 2	3.48	+ 7	40.91	- 1	36.33	+ 7
18	36.39	+11	17.23	+ 3	42.23	+ 4	3.32	+ 6	41.28	+ 2	36.05	+ 7
19	37.05	+11	17.22	+ 1	42.57	+ 6	3.15	+ 3	41.66	+ 6	35.76	+ 5
20	37.70	+ 9	17.22	- 2	42.91	+ 6	2.99	0	42.04	+ 8	35.48	+ 2
21	38.36	+ 6	17.22	- 4	43.25	+ 5	2.84	- 3	42.43	+ 9	35.20	- 1
22	39.01	0	17.23	- 5	43.60	+ 3	2.69	- 5	42.84	+ 7	34.93	- 4
23	39.67	- 6	17.24	- 6	43.95	- 1	2.54	- 7	43.25	+ 3	34.65	- 7
24	40.33	-12	17.26	- 4	44.31	- 5	2.40	- 7	43.66	- 3	34.39	- 8
25	40.99	-16	17.29	- 1	44.66	- 8	2.27	- 5	44.09	- 9	34.12	- 8
26	41.64	-17	17.32	+ 2	45.02	-11	2.14	- 2	44.52	-14	33.86	- 5
27	42.30	-15	17.35	+ 6	45.38	-11	2.02	+ 2	44.96	+17	33.60	- 2
28	42.96	- 9	17.40	+ 8	45.74	- 9	1.90	+ 6	45.40	-16	33.35	+ 2
29	43.62	- 2	17.45	+ 9	46.11	- 5	1.79	+ 8	45.86	-12	33.10	+ 6
30	44.28	+ 6	17.50	+ 8	46.48	0	1.68	+ 9	46.32	- 5	32.85	+ 8
31	44.94	+12	17.56	+ 5	46.85	+ 5	1.58	+ 7	46.79	+ 3	32.60	+ 8
Febr. 1	45.60	+16	17.63	0	47.22	+ 9	1.48	+ 4	47.27	+10	32.36	+ 6
2	46.26	+15	17.70	- 4	47.60	+11	1.38	- 1	47.75	+16	32.13	+ 3
3	46.91	+12	17.78	- 8	47.97	+10	1.29	- 5	48.24	+17	31.89	- 1
4	47.57	+ 5	17.86	-10	48.35	+ 8	1.21	- 8	48.74	+16	31.67	- 5
5	48.22	- 1	17.95	-10	48.73	+ 4	1.13	-10	49.24	+11	31.44	- 7
6	48.88	- 6	18.04	- 8	49.11	0	1.06	- 9	49.74	+ 5	31.22	- 8

sec δ, tg δ	87° 49' 10"	26.282	-26.263	86° 13' 0"	15.155	-15.122	87° 39' 30"	24.475	-24.454
	20	26.316	-26.297	10	15.166	-15.133	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.
1920	19 <sup>h</sup> 31 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 37 <sup>m</sup>	in 0.01	-81° 48'	in 0.01	23 <sup>h</sup> 16 <sup>m</sup>	in 0.01	-87° 55'	in 0.01
Jan. 0	2.78	-38	62.95	-7	52.66	-2	16.57	-10	18.67	0	31.93	-10
1	2.74	-47	62.60	-3	52.55	-4	16.35	-9	18.14	-7	31.74	-9
2	2.74	-47	62.25	+1	52.44	-5	16.13	-6	17.60	-13	31.55	-7
3	2.77	-36	61.89	+5	52.33	-5	15.91	-1	17.07	-16	31.35	-3
4	2.83	-17	61.54	+8	52.22	-4	15.68	+3	16.55	-15	31.15	+2
5	2.92	+6	61.19	+9	52.12	-2	15.45	+7	16.03	-11	30.95	+6
6	3.04	+29	60.84	+8	52.02	+1	15.21	+10	15.52	-3	30.73	+9
7	3.19	+46	60.48	+5	51.92	+3	14.97	+10	15.02	+5	30.52	+10
8	3.36	+53	60.13	+1	51.82	+5	14.72	+8	14.52	+12	30.30	+9
9	3.57	+51	59.77	-3	51.72	+5	14.46	+5	14.02	+16	30.07	+6
10	3.80	+39	59.42	-5	51.62	+5	14.20	+2	13.53	+17	29.84	+3
11	4.07	+23	59.06	-7	51.53	+4	13.94	-2	13.05	+15	29.60	-1
12	4.37	+4	58.71	-6	51.44	+2	13.67	-4	12.57	+10	29.36	-3
13	4.70	-12	58.35	-5	51.35	0	13.40	-5	12.11	+3	29.11	-5
14	<sup>5.06</sup> 5.45	-24 -29	<sup>58.00</sup> 57.64	-2 0	51.26	-2	13.13	-5	11.65	-3	28.85	-5
15	5.87	-30	57.29	+3	51.18	-3	12.85	-4	11.19	-8	28.60	-4
16	6.32	-25	56.94	+5	51.09	-4	12.57	-2	10.75	-12	28.33	-3
17	6.80	-16	56.59	+6	51.01	-4	12.28	0	10.31	-14	28.07	-1
18	7.31	-4	56.24	+7	50.93	-3	11.99	+2	9.88	-13	27.80	+1
19	7.85	+8	55.89	+6	50.85	-2	11.69	+4	9.45	-11	27.52	+3
20	8.41	+19	55.54	+4	50.77	-1	11.39	+5	9.03	-6	27.24	+5
21	9.00	+26	55.20	+1	50.70	+1	11.09	+5	8.63	0	26.96	+5
22	9.62	+26	54.85	-2	50.63	+2	10.78	+4	8.23	+6	26.67	+4
23	10.26	+19	54.51	-6	50.56	+3	10.47	+2	7.83	+11	26.37	+3
24	10.94	+6	54.16	-8	50.50	+3	10.16	-2	7.45	+13	26.08	-1
25	11.64	-11	53.82	-9	50.43	+3	9.84	-5	7.07	+13	25.77	-4
26	12.37	-29	53.48	-8	50.37	+1	9.52	-8	6.70	+10	25.47	-7
27	13.13	-42	53.14	-5	50.31	-1	9.20	-10	6.34	+4	25.16	-9
28	13.91	-47	52.81	-1	50.25	-3	8.87	-9	5.99	-4	24.85	-10
29	14.72	-42	52.47	+3	50.20	-4	8.54	-7	5.64	-11	24.53	-8
30	15.56	-28	52.14	+7	50.14	-5	8.21	-3	5.31	-16	24.21	-5
31	16.42	-6	51.81	+9	50.09	-4	7.88	+1	4.98	-17	23.89	0
Febr. 1	17.31	+17	51.48	+8	50.04	-3	7.54	+5	4.66	-14	23.56	+5
2	18.22	+37	51.15	+6	50.00	0	7.20	+8	4.35	-7	23.23	+8
3	19.16	+48	50.82	+2	49.96	+2	6.86	+9	4.05	+1	22.90	+10
4	20.12	+49	50.50	-2	49.92	+4	6.51	+8	3.75	+9	22.56	+9
5	21.11	+43	50.18	-5	49.88	+5	6.16	+6	3.47	+15	22.22	+7
6	22.12	+29	49.87	-7	49.84	+5	5.81	+2	3.20	+17	21.88	+4
sec $\delta$ , tg $\delta$	89° 12' 50"	72.887	-72.881	81° 48' 10"	7.014	-6.942	87° 55' 20"	27.582	-27.563			
	60	73.146	-73.139	20	7.016	-6.944	30	27.618	-27.600			

# 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.
1920	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	—85° 10'	in 0.01	9 <sup>h</sup> 8 <sup>m</sup>	in 0.01	—85° 20'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	—84° 41'	in 0.01
Febr. 6	40.89	+ 5	41.24	+ 8	50.79	— 7	50.56	+ 3	39.46	— 5	12.06	— 5
7	40.64	+ 6	41.05	+ 5	50.74	— 5	50.94	+ 5	39.66	— 5	12.33	— 2
8	40.39	+ 5	40.86	+ 1	50.70	— 3	51.33	+ 6	39.86	— 5	12.61	+ 2
9	40.14	+ 4	40.67	— 2	50.65	0	51.71	+ 5	40.06	— 3	12.89	+ 4
10	39.89	+ 1	40.47	— 4	50.59	+ 2	52.09	+ 4	40.25	— 1	13.18	+ 5
11	39.65	— 1	40.26	— 6	50.53	+ 4	52.47	+ 2	40.44	+ 1	13.47	+ 6
12	39.41	— 3	40.05	— 6	50.47	+ 5	52.85	— 1	40.63	+ 3	13.77	+ 5
13	39.17	— 4	39.83	— 5	50.40	+ 5	53.22	— 3	40.82	+ 4	14.06	+ 3
14	38.93	— 5	39.61	— 4	50.32	+ 4	53.60	— 5	41.00	+ 5	14.37	+ 1
15	38.70	— 5	39.39	— 1	50.25	+ 3	53.97	— 6	41.18	+ 5	14.67	— 1
16	38.46	— 4	39.16	+ 1	50.16	+ 1	54.35	— 6	41.36	+ 4	14.98	— 3
17	38.23	— 3	38.93	+ 3	50.08	— 1	54.72	— 5	41.53	+ 2	15.29	— 5
18	38.00	0	38.69	+ 5	49.99	— 3	55.09	— 2	41.70	0	15.61	— 5
19	37.77	+ 2	38.45	+ 6	49.89	— 4	55.46	+ 1	41.87	— 3	15.93	— 4
20	37.55	+ 4	38.20	+ 5	49.79	— 5	55.83	+ 4	42.04	— 5	16.25	— 2
21	37.33	+ 6	37.95	+ 2	49.69	— 4	56.19	+ 7	42.20	— 6	16.58	+ 1
22	37.11	+ 6	37.70	— 1	49.58	— 2	56.56	+ 9	42.36	— 6	16.91	+ 3
23	36.89	+ 5	37.44	— 4	49.47	+ 1	56.92	+ 9	42.51	— 5	17.24	+ 7
24	36.68	+ 3	37.17	— 7	49.35	+ 3	57.28	+ 7	42.66	— 2	17.57	+ 9
25	36.47	0	36.91	— 9	49.23	+ 5	57.64	+ 3	42.81	+ 1	17.91	+ 8
26	36.26	— 3	36.63	— 8	49.10	+ 6	57.99	— 1	42.96	+ 4	18.25	+ 6
27	36.06	— 6	36.36	— 6	48.97	+ 6	58.35	— 5	43.10	+ 6	18.59	+ 2
28	35.86	— 6	36.08	— 2	48.84	+ 4	58.70	— 8	43.24	+ 7	18.93	— 2
29	35.66	— 6	35.79	+ 3	48.70	+ 1	59.05	— 9	43.37	+ 6	19.28	— 6
März 1	35.46	— 4	35.50	+ 6	48.56	— 3	59.40	— 8	43.50	+ 4	19.63	— 9
2	35.27	— 1	35.21	+ 9	48.41	— 5	59.74	— 5	43.63	+ 1	19.98	— 9
3	35.08	+ 2	34.92	+ 10	48.26	— 7	60.08	— 2	43.76	— 2	20.33	— 9
4	34.90	+ 4	34.62	+ 9	48.11	— 7	60.42	+ 2	43.88	— 4	20.69	— 6
5	34.71	+ 6	34.32	+ 6	47.95	— 6	60.76	+ 4	44.00	— 5	21.04	— 3
6	34.53	+ 6	34.01	+ 3	47.79	— 4	61.09	+ 6	44.12	— 5	21.40	+ 1
7	34.35	+ 4	33.71	— 1	47.63	— 1	61.42	+ 6	44.23	— 4	21.76	+ 4
8	34.17	+ 2	33.39	— 4	47.46	+ 2	61.75	+ 5	44.34	— 2	22.12	+ 5
9	34.00	0	33.08	— 6	47.29	+ 3	62.08	+ 2	44.45	0	22.48	+ 6
10	33.83	— 2	32.76	— 6	47.12	+ 5	62.40	0	44.55	+ 2	22.85	+ 5
11	33.67	— 4	32.44	— 6	46.94	+ 5	62.72	— 2	44.65	+ 4	23.22	+ 4
12	33.50	— 5	32.12	— 4	46.76	+ 5	63.04	— 4	44.74	+ 5	23.59	+ 2
13	33.34	— 5	31.79	— 2	46.57	+ 4	63.35	— 5	44.84	+ 5	23.95	0
14	33.19	— 4	31.46	0	46.38	+ 2	63.66	— 6	44.92	+ 4	24.32	— 2
sec δ, tg δ	85° 10' 30'' 40	11.889 11.896	—11.847 —11.854		85° 20' 50'' 60	12.328 12.335	—12.287 —12.295		84° 41' 10'' 20	10.798 10.803	—10.751 —10.757	

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.
1920	14 <sup>h</sup> 47 <sup>m</sup>	in 0.01	-87° 49'	in 0.01	16 <sup>h</sup> 30 <sup>m</sup>	in 0.01	-86° 13'	in 0.01	18 <sup>h</sup> 7 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
Febr. 6	48.88	- 6	18.04	- 8	49.11	0	1.06	- 9	49.74	+ 5	31.22	- 8
7	49.53	-10	18.14	- 5	49.50	- 3	0.99	- 7	50.26	- 1	31.01	- 7
8	50.18	-11	18.24	- 1	49.88	- 5	0.93	- 4	50.78	- 6	30.80	- 5
9	50.83	- 9	18.35	+ 2	50.27	- 6	0.87	0	51.30	- 9	30.59	- 2
10	51.48	- 5	18.47	+ 5	50.66	- 5	0.82	+ 3	51.83	-10	30.39	+ 1
11	52.12	- 1	18.59	+ 6	51.05	- 4	0.77	+ 6	52.36	- 9	30.19	+ 4
12	52.77	+ 3	18.71	+ 7	51.44	- 1	0.73	+ 7	52.90	- 6	30.00	+ 6
13	53.41	+ 7	18.84	+ 6	51.83	+ 1	0.70	+ 7	53.45	- 3	29.81	+ 7
14	54.04	+10	18.98	+ 4	52.22	+ 3	0.67	+ 6	54.00	+ 1	29.62	+ 7
15	54.68	+11	19.12	+ 2	52.61	+ 5	0.64	+ 4	54.55	+ 5	29.44	+ 6
16	55.31	+10	19.27	- 1	53.01	+ 6	0.62	+ 1	55.11	+ 8	29.26	+ 3
17	55.94	+ 8	19.42	- 3	53.41	+ 6	0.61	- 1	55.68	+ 9	29.09	0
18	56.57	+ 3	19.58	- 5	53.80	+ 4	0.60	- 4	56.25	+ 8	28.92	- 3
19	57.19	- 3	19.74	- 6	54.20	+ 1	0.59	- 6	56.82	+ 5	28.76	- 6
20	57.81	- 9	19.91	- 5	54.59	- 3	0.59	- 7	57.40	0	28.60	- 8
21	58.43	-14	20.08	- 3	54.99	- 6	0.60	- 6	57.98	- 5	28.45	- 8
22	59.04	-16	20.26	0	55.38	- 9	0.61	- 3	58.57	-11	28.30	- 6
23	59.65	-15	20.44	+ 4	55.78	-10	0.62	0	59.15	-15	28.16	- 3
24	60.25	-11	20.62	+ 7	56.18	- 9	0.65	+ 4	59.75	-16	28.02	+ 1
25	60.85	- 4	20.81	+ 9	56.58	- 6	0.67	+ 7	60.34	-13	27.88	+ 5
26	61.45	+ 4	21.00	+ 8	56.98	- 2	0.70	+ 9	60.94	- 8	27.75	+ 8
27	62.04	+11	21.20	+ 6	57.38	+ 3	0.74	+ 8	61.54	0	27.62	+ 9
28	62.63	+15	21.40	+ 2	57.78	+ 7	0.78	+ 5	62.15	+ 8	27.50	+ 7
29	63.21	+16	21.61	- 2	58.17	+10	0.83	+ 1	62.76	+14	27.38	+ 4
März 1	63.79	+13	21.82	- 6	58.57	+10	0.88	- 3	63.37	+17	27.27	+ 1
2	64.36	+ 8	22.04	- 9	58.96	+ 8	0.93	- 7	63.98	+16	27.16	- 3
3	64.93	+ 1	22.25	-10	59.35	+ 5	0.99	- 9	64.60	+13	27.06	- 7
4	65.49	- 4	22.48	- 8	59.75	+ 1	1.06	- 9	65.22	+ 7	26.96	- 8
5	66.05	-10	22.71	- 6	60.14	- 2	1.13	- 8	65.84	+ 1	26.87	- 8
6	66.60	-11	22.94	- 3	60.53	- 5	1.20	- 5	66.46	- 4	26.78	- 6
7	67.15	-10	23.17	+ 1	60.92	- 6	1.28	- 1	67.08	- 8	26.70	- 3
8	67.69	- 8	23.42	+ 4	61.31	- 6	1.37	+ 2	67.70	-10	26.62	0
9	68.23	- 3	23.66	+ 6	61.69	- 4	1.46	+ 5	68.33	- 9	26.55	+ 3
10	68.76	+ 1	23.91	+ 7	62.08	- 2	1.55	+ 7	68.96	- 8	26.48	+ 5
11	69.29	+ 6	24.16	+ 6	62.47	0	1.65	+ 7	69.59	- 4	26.41	+ 7
12	69.81	+ 9	24.42	+ 5	62.85	+ 2	1.75	+ 7	70.22	0	26.35	+ 7
13	70.32	+11	24.67	+ 3	63.23	+ 4	1.86	+ 5	70.85	+ 3	26.30	+ 6
14	70.83	+11	24.94	0	63.61	+ 6	1.97	+ 3	71.48	+ 6	26.25	+ 4
sec δ, tg δ	87° 49' 20"	26.316	-26.297		86° 13' 0"	15.155	-15.122		87° 39' 20"	24.446	-24.425	
	30	26.349	-26.330		10	15.166	-15.133		30	24.475	-24.454	



# 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.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1920	19 <sup>h</sup> 31 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 37 <sup>m</sup>	in 0.01	-81° 47'	in 0.01	23 <sup>h</sup> 15 <sup>m</sup>	in 0.01	-87° 55'	in 0.01
Febr. 6	22.12	+29	49.87	-7	49.84	+5	65.81	+2	63.20	+17	21.88	+4
7	23.15	+10	49.55	-7	49.80	+4	65.46	-1	62.93	+16	21.53	0
8	24.21	-7	49.24	-6	49.77	+3	65.11	-4	62.68	+12	21.18	-2
9	25.29	-20	48.93	-3	49.74	+1	64.76	-5	62.43	+6	20.83	-5
10	26.40	-28	48.62	-1	49.71	-1	64.40	-5	62.19	-1	20.48	-5
11	27.52	-30	48.32	+2	49.68	-3	64.04	-4	61.96	-7	20.12	-5
12	28.67	-27	48.02	+5	49.66	-3	63.68	-3	61.74	-11	19.76	-4
13	29.85	-19	47.72	+6	49.64	-4	63.31	-1	61.53	-13	19.40	-2
14	31.04	-9	47.43	+7	49.62	-3	62.95	+2	61.32	-14	19.04	+1
15	32.25	+4	47.14	+6	49.61	-3	62.58	+3	61.13	-12	18.67	+2
16	33.49	+15	46.85	+5	49.59	-1	62.22	+5	60.95	-8	18.31	+4
17	34.74	+24	46.56	+2	49.58	0	61.85	+5	60.77	-3	17.94	+5
18	36.02	+27	46.28	-1	49.58	+2	61.48	+5	60.61	+3	17.57	+5
19	37.31	+24	46.00	-5	49.57	+3	61.11	+3	60.45	+9	17.19	+4
20	38.63	+14	45.72	-7	49.57	+3	60.74	0	60.30	+13	16.82	+1
21	39.96	-2	45.45	-9	49.57	+3	60.37	-3	60.16	+14	16.45	-2
22	41.32	-19	45.18	-8	49.57	+2	59.99	-6	60.04	+12	16.07	-5
23	42.69	-35	44.92	-6	49.57	0	59.62	-9	59.92	+6	15.69	-8
24	44.07	-44	44.66	-2	49.58	-2	59.24	-9	59.81	0	15.31	-9
25	45.48	-43	44.40	+2	49.59	-4	58.87	-8	59.71	-8	14.93	-8
26	46.90	-33	44.15	+6	49.60	-5	58.49	-4	59.62	-14	14.55	-6
27	48.34	-14	43.90	+8	49.61	-5	58.12	0	59.54	-16	14.17	-2
28	49.80	+8	43.65	+9	49.63	-4	57.74	+4	59.47	-15	13.78	+3
29	51.27	+29	43.41	+7	49.65	-1	57.37	+7	59.40	-10	13.40	+7
März 1	52.76	+44	43.17	+4	49.67 49.69	+1 +3	56.99 56.62	+9 +9	59.35	-2	13.02	+9
2	54.26	+49	42.93	0	49.72	+5	56.24	+7	59.31	+6	12.63	+9
3	55.78	+45	42.70	-4	49.74	+5	55.87	+3	59.27	+12	12.24	+8
4	57.31	+32	42.47	-6	49.77	+4	55.49	0	59.25	+17	11.86	+5
5	58.85	+15	42.25	-7	49.81	+3	55.12	-3	59.23	+16	11.47	+1
6	60.41	-2	42.03	-7	49.84	+1	54.74	-5	59.23	+14	11.08	-2
7	61.99	-17	41.82	-4	49.88	0	54.37	-5	59.23	+8	10.69	-4
8	63.58	-27	41.61	-2	49.92	-2	53.99	-5	59.24	+2	10.31	-5
9	65.18	-31	41.40	+1	49.96	-3	53.62	-3	59.26	-4	9.92	-5
10	66.79	-29	41.20	+4	50.01	-4	53.24	-1	59.29	-10	9.54	-4
11	68.42	-23	41.00	+6	50.06	-4	52.87	+1	59.33 59.38	-13 -14	9.15 8.76	-2 0
12	70.05	-13	40.81	+7	50.11	-3	52.50	+3	59.44	-13	8.38	+2
13	71.70	-2	40.62	+7	50.16	-2	52.13	+4	59.51	-10	7.99	+3
14	73.35	+10	40.44	+5	50.21	0	51.76	+5	59.59	-5	7.61	+5
sec δ, tg δ	89° 12' 40"	72.631	-72.624		81° 47' 50"	7.009	-6.937		87° 55' 10"	27.545	-27.527	
	50	72.887	-72.881		60	7.011	-6.940		20	27.582	-27.563	

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.
1920	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 10'	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
März 14	33.19	-4	31.46	0	46.38	+2	3.66	-6	44.92	+4	24.32	-2
15	33.04	-3	31.13	+2	46.19	0	3.97	-5	45.01	+3	24.70	-4
16	32.89	-1	30.79	+4	46.00	-2	4.27	-3	45.09	+1	25.07	-5
17	32.75	+1	30.46	+5	45.80	-4	4.57	0	45.17	-2	25.44	-5
18	32.61	+3	30.12	+5	45.61	-5	4.87	+3	45.24	-4	25.82	-3
19	32.47	+5	29.78	+3	45.40	-4	5.16	+6	45.31	-6	26.19	0
20	32.34	+6	29.43	+1	45.20	-3	5.45	+8	45.38	-7	26.57	+3
21	32.21	+6	29.08	-3	44.99	-1	5.74	+9	45.44	-6	26.95	+6
22	32.08	+4	28.74	-6	44.78	+2	6.02	+8	45.50	-4	27.32	+8
23	31.96	+1	28.38	-8	44.57	+4	6.30	+5	45.56	-1	27.70	+8
24	31.84	-2	28.03	-8	44.35	+6	6.57	+1	45.61	+2	28.08	+7
25	31.73	-5	27.68	-7	44.13	+6	6.84	-4	45.66	+5	28.46	+3
26	31.61	-6	27.32	-3	43.91	+4	7.11	-7	45.71	+6	28.83	-1
27	31.51	-6	26.96	+1	43.68	+2	7.37	-9	45.75	+6	29.21	-5
28	31.40	-5	26.61	+5	43.45	-2	7.63	-9	45.79	+5	29.59	-8
29	31.30	-2	26.24	+8	43.22	-4	7.88	-7	45.83	+2	29.97	-10
30	31.20	+1	25.88	+10	42.99	-6	8.13	-3	45.86	-1	30.35	-9
31	31.11	+3	25.52	+9	42.75	-7	8.37	0	45.89	-4	30.72	-7
April 1	31.02	+5	25.15	+7	42.52	-6	8.61	+3	45.91	-5	31.09	-4
2	30.94	+6	24.79	+4	42.28	-4	8.85	+6	45.94	-5	31.47	0
3	30.86	+5	24.42	0	42.04	-2	9.08	+6	45.95	-5	31.84	+3
4	30.78	+3	24.05	-3	41.79	+1	9.31	+5	45.97	-3	32.22	+5
5	30.71	+1	23.69	-5	41.55	+3	9.53	+4	45.98	-1	32.59	+6
6	30.64	-1	23.32	-6	41.30	+4	9.75	+1	45.99	+2	32.97	+6
7	30.57	-3	22.94	-6	41.05	+5	9.96	-1	45.99	+3	33.34	+5
8	30.51	-5	22.57	-5	40.80	+5	10.17	-4	45.99	+5	33.72	+3
9	30.45	-5	22.20	-3	40.55	+4	10.38	-5	45.99	+5	34.09	+1
10	30.39	-5	21.83	-1	40.29	+3	10.58	-6	45.98	+5	34.46	-1
11	30.34	-4	21.45	+1	40.04	+1	10.78	-5	45.97	+3	34.83	-3
12	30.30	-2	21.08	+3	39.78	-1	10.97	-4	45.96	+1	35.19	-4
13	30.25	0	20.70	+5	39.52	-3	11.16	-1	45.94	-1	35.56	-4
14	30.22	+3	20.33	+5	39.26	-4	11.34	+2	45.92	-3	35.92	-3
15	30.18	+5	19.95	+4	39.00	-4	11.52	+5	45.90	-5	36.29	-1
16	30.15	+6	19.58	+1	38.73	-3	11.69	+8	45.87	-6	36.65	+2
17	30.13 30.11	+6 +5	19.21 18.84	-2 -5	38.47	-1	11.86	+9	45.84	-6	37.01	+5
18	30.09	+2	18.47	-7	38.21	+1	12.02	+9	45.81	-5	37.37	+7
19	30.08	-1	18.10	-8	37.94	+4	12.18	+6	45.77	-2	37.73	+8
20	30.07	-4	17.73	-7	37.67	+5	12.33	+2	45.73	+1	38.08	+7
see δ, tg δ	85° 10' 20"	11.882	-11.840		85° 21' 0"	12.335	-12.295		84° 41' 30"	10.809	-10.763	
	30	11.889	-11.847		10	12.342	-12.302		40	10.815	-10.768	

# 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.
1920	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> 8 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
März 14	10.83	+11	24.94	0	3.61	+6	1.97	+3	11.48	+6	26.25	+4
15	11.33	+9	25.20	-2	3.99	+6	2.09	0	12.11	+8	26.20	+2
16	11.82	+5	25.47	-4	4.37	+4	2.21	-3	12.74	+8	26.16	-2
17	12.31	-1	25.74	-6	4.75	+2	2.34	-6	13.38	+6	26.13	-5
18	12.80	-7	26.02	-6	5.12	-1	2.47	-7	14.02	+2	26.10	-7
19	13.28	-12	26.30	-4	5.49	-5	2.60	-7	14.65	-3	26.07	-8
20	13.75	-16	26.58	-1	5.86	-8	2.74	-5	15.29	-9	26.05	-7
21	14.21	-16	26.87	+2	6.23	-11	2.88	-2	15.93	-13	26.03	-5
22	14.67	-13	27.15	+5	6.60	-10	3.03	+2	16.56	-15	26.02	-1
23	15.11	-7	27.45	+8	6.96	-7	3.18	+6	17.20	-14	26.01	+3
24	15.55	+1	27.74	+8	7.32	-3	3.34	+8	17.83	-9	26.01	+6
25	15.99	+9	28.04	+7	7.68	+2	3.50	+8	18.46	-2	26.02	+8
26	16.42	+14	28.34	+3	8.03	+6	3.66	+6	19.10	+5	26.02	+8
27	16.84	+17	28.64	-1	8.39	+10	3.83	+3	19.73	+12	26.04	+6
28	17.25	+15	28.94	-5	8.74	+11	4.00	-1	20.35	+16	26.06	+2
29	17.66	+11	29.25	-8	9.09	+10	4.18	-5	20.98	+17	26.08	-2
30	18.06	+4	29.56	-10	9.43	+7	4.36	-8	21.61	+15	26.11	-5
31	18.45	-3	29.87	-9	9.77	+3	4.55	-9	22.24	+9	26.14	-8
April 1	18.83	-8	30.19	-7	10.11	-1	4.74	-8	22.86	+3	26.18	-8
2	19.21	-11	30.50	-4	10.45	-4	4.93	-6	23.48	-3	26.22	-7
3	19.58	-11	30.82	0	10.79	-6	5.13	-3	24.10	-7	26.27	-4
4	19.94	-9	31.14	+3	11.12	-6	5.33	+1	24.72	-10	26.32	-1
5	20.29	-5	31.46	+5	11.45	-5	5.53	+4	25.34	-10	26.38	+2
6	20.64	-1	31.79	+7	11.77	-3	5.74	+6	25.96	-9	26.44	+5
7	20.98	+4	32.11	+7	12.09	-1	5.95	+7	26.57	-6	26.50	+7
8	21.31	+8	32.44	+6	12.41	+2	6.16	+7	27.18	-2	26.57	+7
9	21.63	+10	32.77	+4	12.72	+3	6.38	+6	27.79	+1	26.64	+7
10	21.94	+11	33.10	+1	13.03	+5	6.60	+4	28.40	+5	26.72	+5
11	22.25	+9	33.44	-1	13.34	+5	6.82	+1	29.00	+7	26.80	+3
12	22.55	+6	33.77	-3	13.64	+5	7.05	-2	29.60	+8	26.89	0
13	22.83	+1	34.10	-5	13.94	+3	7.27	-4	30.20	+7	26.98	-3
14	23.11	-5	34.44	-5	14.23	0	7.51	-6	30.79	+3	27.08	-6
15	23.39	-11	34.78	-4	14.53	-4	7.74	-7	31.38	-2	27.18	-8
16	23.65	-15	35.12	-2	14.81	-7	7.98	-6	31.96	-7	27.29	-8
17	23.90	-17	35.46	+1	15.10	-10	8.22	-3	32.55	-12	27.40	-6
18	24.15	-15	35.80	+4	15.38	-10	8.47	+1	33.12	-15	27.51	-3
19	24.39	-10	36.14	+7	15.66	-8	8.72	+4	33.70	-15	27.63	+1
20	24.62	-2	36.48	+8	15.93	-5	8.97	+7	34.27	-11	27.75	+5
sec δ, tg δ	87° 49' 20"	26.316	-26.297		86° 13' 0"	15.155	-15.122		87° 39' 20"	24.446	-24.425	
	30	26.349	-26.330		10	15.166	-15.133		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.
1920	19 <sup>h</sup> 32 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 37 <sup>m</sup>	in 0.01	-81° 47'	in 0.01	23 <sup>h</sup> 15 <sup>m</sup>	in 0.01	-87° 54'	in 0.01
März 14	13.35	+10	40.44	+5	50.21	0	51.76	+5	59.59	-5	67.61	+5
15	15.02	+19	40.26	+3	50.27	+1	51.39	+5	59.68	+1	67.23	+5
16	16.70	+25	40.08	0	50.32	+2	51.02	+4	59.77	+7	66.84	+4
17	18.39	+25	39.91	-3	50.38	+3	50.66	+1	59.87	+11	66.46	+2
18	20.09	+18	39.74	-6	50.44	+3	50.30	-2	59.98	+14	66.08	-1
19	21.80	+5	39.58	-8	50.51	+3	49.93	-5	60.10	+13	65.69	-4
20	23.51	-11	39.42	-9	50.57	+1	49.57	-8	60.23	+9	65.31	-7
21	25.23	-27	39.27	-7	50.64	-1	49.21	-9	60.37	+3	64.93	-9
22	26.96	-38	39.12	-4	50.71	-3	48.85	-8	60.52	-4	64.56	-8
23	28.69	-42	38.98	0	50.78	-4	48.50	-6	60.67	-11	64.18	-7
24	30.44	-35	38.84	+4	50.86	-4	48.14	-2	60.84	-15	63.81	-3
25	32.19	-20	38.70	+7	50.93	-4	47.79	+2	61.01	-16	63.44	+1
26	33.95	+1	38.57	+9	51.01	-2	47.44	+6	61.19	-12	63.07	+6
27	35.71	+23	38.45	+8	51.09	0	47.09	+9	61.38	-5	62.70	+9
28	37.48	+40	38.33	+5	51.17	+2	46.75	+9	61.58	+3	62.32	+10
29	39.25	+48	38.21	+2	51.25	+4	46.40	+8	61.79	+10	61.95	+9
30	41.03	+48	38.10	-2	51.34	+5	46.06	+5	62.00	+15	61.58	+6
31	42.81	+38	37.99	-5	51.43	+5	45.72	+1	62.23	+17	61.22	+3
April 1	44.60	+22	37.89	-7	51.52	+4	45.38	-2	62.46	+15	60.85	-1
2	46.39	+4	37.79	-7	51.61	+2	45.05	-4	62.70	+10	60.50	-3
3	48.18	-12	37.70	-6	51.70	0	44.72	-6	62.95	+4	60.14	-5
4	49.98	-25	37.61	-3	51.80	-2	44.39	-5	63.21	-2	59.78	-6
5	51.78	-30	37.53	0	51.89	-3	44.07	-4	63.47	-8	59.43	-5
6	53.58	-31	37.45	+3	51.99	-4	43.74	-2	63.74	-12	59.08	-3
7	55.39	-26	37.38	+5	52.09	-4	43.42	0	64.02	-14	58.72	-1
8	57.19	-18	37.31	+6	52.20	-3	43.10	+2	64.31	-13	58.38	+1
9	58.99	-7	37.25	+7	52.30	-2	42.79	+4	64.60	-11	58.03	+3
10	60.79	+5	37.19	+6	52.41	-1	42.48	+5	64.90	-7	57.69	+4
11	62.59	+15	37.14	+4	52.51	0	42.17	+5	65.21	-2	57.35	+5
12	64.39	+21	37.09	+1	52.63	+2	41.86	+4	65.53	+4	57.02	+4
13	66.20	+24	37.05	-2	52.74	+3	41.56	+2	65.85	+9	56.69	+3
14	68.00	+19	37.01	-5	52.85	+3	41.26	-1	66.19	+13	56.36	0
15	69.80	+8	36.98	-8	52.97	+3	40.96	-4	66.53	+13	56.03	-3
16	71.60	-6	36.95	-9	53.09	+2	40.67	-7	66.87	+11	55.71	-6
17	73.40	-23	36.93	-8	53.20	0	40.38	-9	67.23	+6	55.38	-8
18	75.20	-36	36.91	-5	53.33	-2	40.09	-9	67.59	-1	55.07	-9
19	76.99	-42	36.89	-1	53.45	-4	39.81	-7	67.96	-9	54.75	-8
20	78.78	-38	36.88	+3	53.57	-4	39.53	-3	68.33	-14	54.44	-4
sec $\delta$ , tg $\delta$	89° 12' 30"	72.377	-72.369		81° 47' 40"	7.006	-6.935		87° 54' 60"	27.508	-27.490	
	40	72.631	-72.624		50	7.009	-6.937		70	27.545	-27.527	

# 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.
1920	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 10'	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
April 20	30.07	-4	17.73	-7	37.67	+5	12.33	+2	45.73	+1	38.08	+7
21	30.06	-6	17.36	-4	37.40	+6	12.48	-2	45.69	+4	38.44	+5
22	30.06	-6	16.99	0	37.13	+5	12.62	-6	45.64	+6	38.79	+1
23	30.06	-6	16.62	+4	36.86	+3	12.76	-9	45.59	+7	39.14	-4
24	30.07	-4	16.25	+8	36.58	0	12.89	-9	45.54	+6	39.48	-8
25	30.08	0	15.88	+10	36.31	-3	13.02	-8	45.48	+3	39.83	-10
26	30.10	+2	15.51	+10	36.04	-6	13.14	-5	45.42	0	40.17	-10
27	30.12	+4	15.14	+9	35.77	-7	13.25	-2	45.36	-2	40.51	-9
28	30.14	+6	14.77	+5	35.49	-7	13.36	+2	45.29	-4	40.85	-6
29	30.17	+5	14.41	+2	35.22	-5	13.47	+5	45.22	-5	41.19	-2
30	30.20	+4	14.04	-2	34.95	-3	13.57	+6	45.15	-5	41.52	+1
Mai 1	30.24	+2	13.68	-4	34.67	0	13.66	+6	45.07	-3	41.85	+4
2	30.28	0	13.32	-6	34.40	+2	13.75	+4	45.00	-1	42.18	+5
3	30.32	-3	12.96	-6	34.12	+4	13.84	+2	44.91	+1	42.50	+6
4	30.37	-4	12.60	-6	33.84	+5	13.92	-1	44.83	+3	42.82	+5
5	30.42	-5	12.25	-4	33.57	+5	13.99	-3	44.74	+4	43.14	+3
6	30.47	-5	11.89	-2	33.29	+4	14.06	-5	44.65	+5	43.46	+1
7	30.53	-4	11.53	0	33.02	+3	14.13	-5	44.55	+5	43.77	-1
8	30.59	-3	11.18	+2	32.74	+1	14.19	-5	44.45	+4	44.08	-2
9	30.66	0	10.83	+4	32.46	-1	14.24	-4	44.35	+2	44.39	-4
10	30.73	+2	10.48	+5	32.18	-2	14.29	-2	44.25	0	44.69	-4
11	30.81	+4	10.14	+4	31.91	-4	14.33	+1	44.14	-3	44.99	-3
12	30.88	+6	9.79	+2	31.63	-4	14.37	+4	44.03	-5	45.29	-2
13	30.97	+6	9.45	-1	31.36	-4	14.40	+7	43.91	-6	45.58	+1
14	31.05	+6	9.11	-4	31.08	-2	14.42	+9	43.80	-7	45.87	+5
15	31.14	+4	8.77	-7	30.81	0	14.45	+9	43.68	-6	46.15	+7
16	31.23	+1	8.44	-9	30.53	+3	14.46	+8	43.56	-3	46.44	+9
17	31.33	-2	8.10	-8	30.26	+5	14.47	+5	43.44	0	46.71	+9
18	31.43	-5	7.77	-6	29.98	+6	14.48	0	43.31	+3	46.99	+7
19	31.54	-6	7.44	-2	29.71	+6	14.48	-4	43.18	+5	47.26	+3
20	31.64	-6	7.12	+2	29.44	+4	14.47	-8	43.05	+7	47.53	-2
21	31.76	-4	6.80	+7	29.17	+1	14.46	-9	42.92	+6	47.79	-5
22	31.87	-2	6.48	+10	28.90	-2	14.45	-9	42.78	+4	48.05	-9
23	31.99	+1	6.17	+11	28.63	-5	14.43	-7	42.64	+2	48.31	-11
24	32.11	+4	5.85	+10	28.36	-7	14.40	-3	42.50	-1	48.56	-10
25	32.24	+5	5.54	+7	28.09	-7	14.37	0	42.35	-3	48.81	-7
26	32.37	+5	5.24	+4	27.83	-6	14.33	+3	42.21	-5	49.05	-4
27	32.50	+4	4.93	0	27.57	-4	14.29	+5	42.06	-5	49.29	0
sec δ, tg δ	85° 10' 10"	11.875	-11.833	85° 21' 10"	12.342	-12.302	84° 41' 40"	10.815	-10.768			
	20 11.882	-11.840	20 12.349	-12.309	50 10.821	-10.774						

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.
1920	14 <sup>h</sup> 48 <sup>m</sup>	in o.o.I	-87° 49'	in o.o.I	16 <sup>h</sup> 31 <sup>m</sup>	in o.o.I	-86° 13'	in o.o.I	18 <sup>h</sup> 8 <sup>m</sup>	in o.o.I	-87° 39'	in o.o.I
April 20	24.62	- 2	36.48	+ 8	15.93	- 5	8.97	+ 7	34.27	- 11	27.75	+ 5
21	24.84	+ 6	36.83	+ 7	16.20	0	9.23	+ 8	34.84	- 5	27.88	+ 8
22	25.05	+ 13	37.17	+ 4	16.47	+ 5	9.48	+ 7	35.40	+ 3	28.01	+ 8
23	25.25	+ 17	37.52	+ 1	16.73	+ 9	9.74	+ 4	35.96	+ 11	28.14	+ 7
24	25.45	+ 17	37.87	- 4	16.99	+ 11	10.01	0	36.51	+ 16	28.28	+ 4
25	25.64	+ 14	38.21	- 7	17.24	+ 11	10.27	- 4	37.06	+ 18	28.42	0
26	25.81	+ 8	38.56	- 10	17.49	+ 9	10.54	- 7	37.61	+ 17	28.57	- 4
27	25.98	+ 1	38.91	- 10	17.73	+ 5	10.81	- 9	38.15	+ 13	28.72	- 7
28	26.15	- 5	39.25	- 8	17.97	+ 1	11.08	- 9	38.69	+ 6	28.88	- 8
29	26.30	- 10	39.60	- 5	18.21	- 3	11.36	- 7	39.22	0	29.04	- 8
30	26.44	- 11	39.95	- 2	18.44	- 5	11.64	- 4	39.74	- 5	29.21	- 6
Mai 1	26.57	- 10	40.29	+ 2	18.66	- 6	11.92	0	40.26	- 9	29.37	- 2
2	26.70	- 6	40.64	+ 5	18.89	- 6	12.20	+ 3	40.78	- 10	29.55	+ 1
3	26.81	- 2	40.99	+ 6	19.10	- 4	12.48	+ 5	41.29	- 9	29.72	+ 4
4	26.92	+ 2	41.34	+ 7	19.31	- 2	12.77	+ 7	41.79	- 7	29.90	+ 6
5	27.02	+ 7	41.68	+ 6	19.52	+ 1	13.05	+ 7	42.29	- 3	30.08	+ 7
6	27.10	+ 9	42.03	+ 5	19.73	+ 3	13.34	+ 6	42.79	0	30.27	+ 7
7	27.18	+ 11	42.38	+ 2	19.92	+ 5	13.63	+ 5	43.28	+ 4	30.46	+ 6
8	27.25	+ 10	42.73	0	20.12	+ 5	13.93	+ 2	43.76	+ 6	30.65	+ 4
9	27.31	+ 7	43.08	- 2	20.31	+ 5	14.22	- 1	44.24	+ 7	30.85	+ 1
10	27.36	+ 2	43.43	- 4	20.49	+ 3	14.52	- 4	44.71	+ 7	31.05	- 2
11	27.40	- 3	43.77	- 5	20.67	+ 1	14.82	- 6	45.18	+ 4	31.25	- 5
12	27.44	- 9	44.11	- 5	20.85	- 3	15.12	- 6	45.63	0	31.46	- 7
13	27.46	- 14	44.46	- 3	21.02	- 7	15.42	- 6	46.08	- 6	31.67	- 8
14	27.47	- 17	44.80	0	21.18	- 10	15.72	- 4	46.53	- 11	31.89	- 7
15	27.48	- 17	45.14	+ 3	21.34	- 11	16.02	- 1	46.97	- 15	32.10	- 4
16	27.48	- 13	45.48	+ 6	21.49	- 10	16.33	+ 3	47.40	- 16	32.33	0
17	27.46	- 6	45.82	+ 8	21.64	- 7	16.64	+ 7	47.82	- 14	32.55	+ 4
18	27.44	+ 2	46.15	+ 8	21.78	- 3	16.94	+ 8	48.24	- 9	32.78	+ 7
19	27.41	+ 10	46.49	+ 6	21.92	+ 3	17.25	+ 8	48.65	- 1	33.01	+ 8
20	27.37	+ 15	46.83	+ 2	22.05	+ 7	17.56	+ 6	49.05	+ 7	33.24	+ 8
21	27.32	+ 17	47.16	- 2	22.18	+ 11	17.87	+ 2	49.45	+ 14	33.48	+ 5
22	27.27	+ 16	47.49	- 6	22.30	+ 11	18.18	- 2	49.84	+ 18	33.72	+ 2
23	27.20	+ 11	47.82	- 9	22.42	+ 10	18.49	- 6	50.22	+ 18	33.97	- 2
24	27.13	+ 4	48.15	- 10	22.53	+ 7	18.81	- 9	50.59	+ 16	34.21	- 6
25	27.05	- 2	48.47	- 9	22.64	+ 3	19.12	- 9	50.96	+ 10	34.46	- 8
26	26.95	- 8	48.80	- 7	22.74	- 1	19.43	- 8	51.32	+ 4	34.71	- 8
27	26.85	- 10	49.12	- 4	22.83	- 4	19.74	- 6	51.67	- 3	34.96	- 6

sec δ, tg δ    87° 49' 40" | 26.383 | -26.364    86° 13' 10" | 15.166 | -15.133    87° 39' 20" | 24.446 | -24.425  
                   50    26.417 | -26.398                    20    15.178 | -15.145                    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.
1920	19 <sup>h</sup> 33 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 37 <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
April 20	18.78	-38	36.88	+3	53.57	-4	39.53	-3	8.33	-14	54.44	-4
21	20.57	-26	36.88	+6	53.70	-4	39.26	+1	8.72	-16	54.13	0
22	22.35	-6	36.88	+8	53.83	-3	38.99	+5	9.10	-14	53.83	+4
23	24.13	+17	36.89	+9	53.95	-1	38.72	+9	9.50	-8	53.53	+8
24	25.90	+36	36.89	+7	54.08	+2	38.46	+10	9.90	-1	53.23	+10
25	27.67	+49	36.91	+3	54.21	+4	38.20	+9	10.31	+7	52.94	+10
26	29.43	+52	36.93	-1	54.34	+5	37.95	+7	10.72	+14	52.65	+8
27	31.18	+45	36.96	-4	54.47	+5	37.69	+3	11.15	+17	52.36	+5
28	32.93	+31	36.99	-6	54.61	+4	37.45	0	11.57	+16	52.08	+1
29	34.67	+12	37.02	-7	54.74	+3	37.20	-3	12.01	+13	51.80	-2
30	36.40	-5	37.06	-6	54.88	+1	36.96	-5	12.45	+7	51.53	-5
Mai 1	38.13	-20	37.10	-4	55.02	-1	36.73	-6	12.90	0	51.26	-6
2	39.85	-29	37.15	-1	55.15	-2	36.49	-5	13.35	-6	50.99	-5
3	41.56	-31	37.20	+2	55.29	-3	36.27	-3	13.81	-11	50.73	-4
4	43.26	-28	37.26	+4	55.44	-4	36.05	-1	14.27	-13	50.47	-2
5	44.96	-21	37.33	+6	55.58	-4	35.83	+1	14.74	-14	50.22	0
6	46.64	-11	37.40	+7	55.72	-3	35.61	+3	15.21	-12	49.97	+2
7	48.32	0	37.47	+6	55.87	-1	35.41	+4	15.69	-9	49.73	+4
8	49.98	+11	37.55	+5	56.01	0	35.20	+5	16.17	-4	49.49	+5
9	51.64	+19	37.63	+2	56.16	+1	35.00	+4	16.66	+2	49.25	+4
10	53.29	+22	37.72	-1	56.31	+2	34.80	+2	17.15	+7	49.02	+3
11	54.92	+19	37.81	-4	56.46	+3	34.61	0	17.65	+11	48.79	+1
12	56.55	+11	37.91	-7	56.62	+3	34.43	-3	18.15	+13	48.57	-2
13	58.16	-3	38.01	-9	56.77	+2	34.25	-7	18.66	+12	48.35	-6
14	59.76	-19	38.11	-9	56.92	0	34.07	-9	19.17	+8	48.14	-8
15	61.35	-34	38.22	-7	57.08	-1	33.90	-10	19.69	+1	47.93	-10
16	62.92	-43	38.34	-3	57.23	-3	33.74	-8	20.21	-6	47.73	-9
17	64.48	-44	38.46	+1	57.38	-4	33.58	-5	20.73	-12	47.53	-6
18	66.03	-34	38.58	+5	57.53	-4	33.42	-1	21.26	-15	47.33	-2
19	67.56	-16	38.71	+8	57.68	-3	33.27	+3	21.79	-15	47.14	+2
20	69.08	+7	38.84	+9	57.84	-2	33.12	+7	22.32	-11	46.95	+7
21	70.59	+30	38.98	+8	57.99	+1	32.98	+10	22.86	-3	46.77	+10
22	72.08	+46	39.12	+5	58.15	+3	32.84	+10	23.40	+4	46.60	+11
23	73.56	+54	39.27	+1	58.30	+5	32.71	+8	23.95	+11	46.43	+10
24	75.02	+51	39.42	-2	58.46	+5	32.59	+5	24.50	+16	46.26	+7
25	76.46	+39	39.57	-5	58.62	+5	32.46	+2	25.05	+17	46.10	+3
26	77.89	+22	39.73	-7	58.78	+4	32.35	-2	25.60	+15	45.95	-1
27	79.30	+4	39.89	-6	58.93	+2	32.24	-4	26.16	+10	45.80	-3

sec δ. tg δ	89° 12' 30"	72.377	-72.369	81° 47' 30"	7.003	-5.933	87° 54' 40"	27.434	-27.416
	40	72.631	-72.624	40	7.006	-5.935	50	27.471	-27.453

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.
1920	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
Mai 27	32.50	+ 4	64.93	0	27.57	- 4	14.29	+ 5	42.06	- 5	49.29	0
28	32.64	+ 3	64.63	- 3	27.30	- 1	14.24	+ 6	41.91	- 4	49.52	+ 3
29	32.78	0	64.33	- 5	27.04	+ 1	14.19	+ 5	41.75	- 2	49.75	+ 5
30	32.92	- 2	64.04	- 6	26.78	+ 3	14.13	+ 3	41.59	0	49.97	+ 5
31	33.07	- 4	63.75	- 5	26.52	+ 4	14.07	0	41.43	+ 2	50.19	+ 5
Juni 1	33.22	- 5	63.46	- 4	26.26	+ 5	14.00	- 2	41.27	+ 4	50.41	+ 4
2	33.37	- 5	63.18	- 2	26.01	+ 5	13.92	- 4	41.11	+ 5	50.62	+ 2
3	33.53	- 5	62.90	0	25.76	+ 4	13.84	- 5	40.94	+ 5	50.82	0
4	33.69	- 3	62.63	+ 2	25.51	+ 2	13.76	- 6	40.78	+ 4	51.03	- 2
5	33.85	- 1	62.35	+ 4	25.26	0	13.67	- 5	40.61	+ 3	51.22	- 4
6	34.02	+ 1	62.09	+ 5	25.01	- 2	13.57	- 3	40.44	+ 1	51.42	- 4
7	34.19	+ 3	61.82	+ 4	24.76	- 3	13.47	0	40.26	- 1	51.61	- 4
8	34.36	+ 5	61.56	+ 3	24.52	- 4	13.37	+ 3	40.09	- 4	51.79	- 2
9	34.54	+ 6	61.31	0	24.28	- 4	13.26	+ 6	39.91	- 6	51.97	0
10	34.71	+ 6	61.05	- 3	24.04	- 3	13.15	+ 9	39.74	- 7	52.14	+ 4
11	34.89	+ 5	60.81	- 6	23.80	- 1	13.03	+ 10	39.55	- 6	52.31	+ 7
12	35.08	+ 2	60.57	- 9	23.57	+ 2	12.90	+ 9	39.37	- 5	52.48	+ 9
13	35.26	- 1	60.33	- 10	23.34	+ 4	12.77	+ 7	39.19	- 2	52.63	+ 10
14	35.45	- 4	60.09	- 8	23.11	+ 6	12.64	+ 3	39.00	+ 1	52.79	+ 8
15	35.64	- 6	59.87	- 5	22.88	+ 6	12.50	- 2	38.81	+ 4	52.94	+ 5
16	35.83	- 6	59.64	0	22.65	+ 5	12.35	- 6	38.63	+ 6	53.08	+ 1
17	36.03	- 5	59.42	+ 4	22.42	+ 3	12.20	- 8	38.43	+ 6	53.22	- 4
18	36.23	- 3	59.20	+ 8	22.20	- 1	12.05	- 9	38.24	+ 5	53.35	- 8
19	36.43	0	58.99	+ 10	21.98	- 4	11.89	- 8	38.05	+ 3	53.47	- 10
20	36.64	+ 3	58.78	+ 10	21.77	- 6	11.73	- 5	37.85	0	53.59	- 10
21	36.85	+ 5	58.58	+ 9	21.55	- 7	11.56	- 1	37.66	- 3	53.71	- 9
22	37.06	+ 5	58.39	+ 6	21.34	- 7	11.39	+ 2	37.46	- 5	53.82	- 6
23	37.27	+ 5	58.19	+ 2	21.14	- 5	11.21	+ 4	37.26	- 5	53.92	- 2
24	37.48	+ 3	58.01	- 1	20.93	- 3	11.03	+ 5	37.07	- 4	54.02	+ 1
25	37.69	+ 1	57.83	- 4	20.73	0	10.85	+ 5	36.87	- 3	54.12	+ 4
26	37.91	- 1	57.65	- 5	20.53	+ 2	10.66	+ 3	36.66	- 1	54.21	+ 5
27	38.13	- 3	57.48	- 5	20.33	+ 4	10.47	+ 1	36.46	+ 2	54.29	+ 5
28	38.35	- 4	57.32	- 4	20.14	+ 5	10.27	- 2	36.26	+ 3	54.37	+ 4
29	38.57	- 5	57.16	- 3	19.95	+ 5	10.07	- 4	36.05	+ 5	54.44	+ 2
30	38.80	- 5	57.00	- 1	19.76	+ 4	9.86	- 5	35.85	+ 5	54.51	0
Juli 1	39.02	- 4	56.85	+ 2	19.58	+ 2	9.65	- 6	35.64	+ 5	54.57	- 2
2	39.25	- 2	56.71	+ 3	19.40	+ 1	9.43	- 6	35.44	+ 4	54.62	- 4
3	39.48	0	56.57	+ 5	19.23	- 1	9.21	- 4	35.23	+ 2	54.67	- 5
see δ, tg δ	85° 9' 50" 60	11.861 11.868	- 11.819 - 11.816		85° 21' 10" 20	12.342 12.349	- 12.302 - 12.309		84° 41' 50" 60	10.821 10.827	- 10.774 - 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.
1920	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> 8 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
Mai 27	26.85	-10	49.12	- 4	22.83	- 4	19.74	- 6	51.67	- 3	34.96	- 6
28	26.74	-10	49.44	0	22.92	- 6	20.05	- 2	52.01	- 7	35.22	- 4
29	26.62	- 8	49.76	+ 3	23.01	- 6	20.36	+ 1	52.35	- 9	35.48	- 1
30	26.49	- 3	50.08	+ 5	23.09	- 4	20.67	+ 4	52.68	- 9	35.74	+ 3
31	26.35	+ 1	50.39	+ 6	23.17	- 2	20.99	+ 6	53.00	- 7	36.01	+ 5
Juni 1	26.20	+ 5	50.70	+ 6	23.23	0	21.30	+ 7	53.31	- 4	36.27	+ 7
2	26.05	+ 9	51.01	+ 5	23.30	+ 2	21.61	+ 7	53.62	0	36.54	+ 7
3	25.88	+ 11	51.32	+ 3	23.35	+ 4	21.93	+ 5	53.91	+ 3	36.81	+ 6
4	25.71	+ 11	51.62	+ 1	23.40	+ 5	22.24	+ 3	54.20	+ 6	37.08	+ 5
5	25.53	+ 9	51.92	- 2	23.45	+ 5	22.55	0	54.48	+ 8	37.36	+ 2
6	25.34	+ 5	52.22	- 4	23.49	+ 4	22.87	- 2	54.75	+ 8	37.63	- 1
7	25.15	- 1	52.52	- 5	23.52	+ 2	23.18	- 5	55.02	+ 5	37.91	- 4
8	24.94	- 7	52.81	- 5	23.55	- 2	23.50	- 6	55.27	+ 1	38.19	- 6
9	24.72	- 13	53.10	- 3	23.57	- 5	23.81	- 6	55.52	- 4	38.47	- 8
10	24.50	- 17	53.39	- 1	23.59	- 9	24.13	- 5	55.76	- 10	38.76	- 7
11	24.27	- 18	53.67	+ 2	23.61	- 11	24.44	- 2	55.99	- 15	39.05	- 5
12	24.03	- 16	53.96	+ 6	23.62	- 11	24.75	+ 2	56.21	- 16	39.33	- 2
13	23.78	- 10	54.23	+ 8	23.62	- 9	25.06	+ 5	56.42	- 17	39.62	+ 2
14	23.52	- 3	54.51	+ 9	23.61	- 6	25.37	+ 8	56.62	- 13	39.91	+ 5
15	23.26	+ 5	54.78	+ 8	23.60	0	25.67	+ 8	56.81	- 6	40.20	+ 8
16	22.99	+ 12	55.05	+ 5	23.58	+ 5	25.98	+ 7	57.00	+ 3	40.49	+ 8
17	22.71	+ 16	55.31	0	23.56	+ 9	26.29	+ 4	57.17	+ 11	40.79	+ 7
18	22.43	+ 16	55.57	- 4	23.53	+ 11	26.59	0	57.34	+ 16	41.08	+ 3
19	22.14	+ 13	55.83	- 8	23.50	+ 11	26.89	- 5	57.50	+ 18	41.38	- 1
20	21.84	+ 7	56.08	- 10	23.46	+ 9	27.19	- 8	57.64	+ 17	41.68	- 5
21	21.53	0	56.33	- 10	23.41	+ 5	27.49	- 10	57.78	+ 13	41.97	- 7
22	21.21	- 6	56.57	- 8	23.36	+ 1	27.79	- 9	57.91	+ 7	42.27	- 8
23	20.89	- 9	56.81	- 5	23.31	- 2	28.08	- 7	58.03	0	42.57	- 7
24	20.56	- 10	57.05	- 2	23.25	- 5	28.38	- 4	58.15	- 5	42.87	- 5
25	20.22	- 8	57.29	+ 2	23.18	- 5	28.67	0	58.25	- 8	43.17	- 2
26	19.87	- 4	57.52	+ 5	23.11	- 5	28.96	+ 3	58.34	- 9	43.47	+ 2
27	19.52	0	57.75	+ 6	23.04	- 3	29.24	+ 6	58.42	- 7	43.77	+ 4
28	19.16	+ 4	57.97	+ 6	22.96	0	29.53	+ 7	58.50	- 5	44.07	+ 6
29	18.79	+ 8	58.19	+ 5	22.87	+ 2	29.81	+ 7	58.56	- 1	44.37	+ 7
30	18.42	+ 11	58.40	+ 4	22.78	+ 4	30.10	+ 6	58.62	+ 2	44.67	+ 7
Juli 1	18.03	+ 12	58.61	+ 1	22.68	+ 6	30.37	+ 4	58.66	+ 6	44.97	+ 5
2	17.65	+ 10	58.81	- 1	22.58	+ 6	30.65	+ 1	58.70	+ 8	45.27	+ 3
3	17.25	+ 7	59.01	- 3	22.47	+ 5	30.92	- 2	58.72	+ 9	45.57	0
see δ, tg δ	87° 49' 50 <sup>h</sup> 60	26.417 26.450	-26.398 -26.432		86° 13' 20 <sup>h</sup> 30	15.178 15.189	-15.145 -15.156		87° 39' 30 <sup>h</sup> 40	24.475 24.504	-24.454 -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.
1920	19 <sup>h</sup> 34 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 37 <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
Mai 27	19.30	+ 4	39.89	- 6	58.93	+ 2	32.24	- 4	26.16	+10	45.80	- 3
28	20.70	-13	40.06	- 5	59.09	0	32.13	- 5	26.72	+ 3	45.65	- 5
29	22.08	-24	40.23	- 2	59.25	- 2	32.03	- 5	27.29	- 3	45.51	- 5
30	23.44	-29	40.41	+ 1	59.41	- 3	31.94	- 3	27.86	- 9	45.38	- 4
31	24.78	-28	40.59	+ 4	59.57	- 4	31.85	- 1	28.42	-12	45.25	- 2
Juni 1	26.11	-22	40.77	+ 5	59.73	- 4	31.77	+ 1	29.00	-13	45.13	0
2	27.41	-13	40.96	+ 7	59.89	- 3	31.69	+ 3	29.57	-13	45.01	+ 2
3	28.70	- 2	41.15	+ 7	60.05	- 2	31.62	+ 4	30.14	-10	44.90	+ 3
4	29.97	+ 8	41.34	+ 6	60.21	- 1	31.55	+ 5	30.72	- 6	44.79	+ 4
5	31.22	+17	41.54	+ 3	60.37	+ 1	31.49	+ 5	31.30	0	44.69	+ 5
6	32.46	+22	41.74	0	60.53	+ 2	31.43	+ 3	31.87	+ 5	44.60	+ 4
7	33.67	+21	41.95	- 3	60.69	+ 3	31.38	+ 1	32.46	+10	44.51	+ 2
8	34.86	+14	42.16	- 6	60.85	+ 3	31.33	- 2	33.04	+13	44.42	- 1
9	36.03	+ 1	42.37	- 8	61.01	+ 2	31.29	- 5	33.62	+12	44.34	- 5
10	37.18	-14	42.59	- 9	61.17	+ 1	31.26	- 8	34.21	+10	44.27	- 8
11	38.31	-31	42.81	- 8	61.33	- 1	31.23	-10	34.78	+ 4	44.20	-10
12	39.42	-43	43.03	- 5	61.49	- 3	31.20	-10	35.37	- 3	44.14	-10
13	40.50	-48	43.26	- 1	61.64	- 4	31.19	- 8	35.95	-10	44.08	- 8
14	41.56	-43	43.49	+ 3	61.80	- 5	31.17	- 4	36.54	-15	44.03	- 5
15	42.60	-28	43.72	+ 6	61.96	- 4	31.16	+ 1	37.12	-16	43.98	0
16	43.62	- 6	43.96	+ 8	62.12	- 3	31.16	+ 5	37.71	-13	43.94	+ 4
17	44.62	+17	44.20	+ 9	62.27	0	31.16	+ 9	38.29	- 7	43.90	+ 8
18	45.59	+38	44.44	+ 6	62.43	+ 2	31.17	+10	38.88	+ 1	43.87	+10
19	46.54	+51	44.68	+ 3	62.58	+ 4	31.19	+ 9	39.46	+ 9	43.85	+10
20	47.47	+54	44.93	- 1	62.74	+ 5	31.21	+ 7	40.05	+15	43.83	+ 8
21	48.37	+46	45.18	- 4	62.89	+ 5	31.23	+ 3	40.63	+18	43.81	+ 5
22	49.25	+32	45.43	- 6	63.05	+ 5	31.26	0	41.21	+17	43.81	+ 1
23	50.11	+13	45.69	- 7	63.20	+ 3	31.30	- 3	41.79	+12	43.81	- 2
24	50.94	- 4	45.95	- 6	63.35	+ 1	31.34	- 5	42.37	+ 6	43.81	- 4
25	51.75	-18	46.21	- 3	63.50	- 1	31.38	- 5	42.94	- 1	43.82	- 5
26	52.53	-26	46.48	0	63.65	- 2	31.43	- 4	43.52	- 7	43.84	- 4
27	53.29	-27	46.74	+ 3	63.80	- 3	31.49	- 2	44.10	-11	43.86	- 3
28	54.02	-23	47.01	+ 5	63.95	- 4	31.55	0	44.67	-13	43.89	- 1
29	54.73	-15	47.28	+ 6	64.10	- 3	31.62	+ 2	45.24	-13	43.93	+ 1
30	55.41	- 5	47.56	+ 7	64.24	- 2	31.69	+ 4	45.81	-11	43.97	+ 3
Juli 1	56.06	+ 7	47.83	+ 6	64.39	- 1	31.77	+ 5	46.37	- 7	44.01	+ 5
2	56.69	+16	48.11	+ 4	64.54	0	31.85	+ 5	46.93	- 2	44.06	+ 5
3	57.29	+23	48.39	+ 2	64.68	+ 2	31.94	+ 4	47.49	+ 3	44.12	+ 4

sec  $\delta$ , tg  $\delta$   $89^{\circ} 12' 40''$  72.631 | -72.624 |  $81^{\circ} 47' 30''$  7.003 | -6.933 |  $87^{\circ} 54' 40''$  27.434 | -27.416  
50 72.887 | -72.881 | 40 7.006 | -6.935 | 50 27.471 | -27.453

# Obere Kulmination Greenwich

323

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.
1920	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° 20'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	-84° 41'	in 0.01
Juli 3	39.48	0	56.57	+ 5	19.23	- 1	69.21	- 4	35.23	+ 2	54.67	- 5
4	39.71	+ 2	56.43	+ 5	19.05	- 3	68.99	- 2	35.02	0	54.72	- 5
5	39.95	+ 4	56.30	+ 4	18.89	- 4	68.77	+ 1	34.81	- 3	54.76	- 4
6	40.18	+ 6	56.18	+ 1	18.72	- 4	68.54	+ 4	34.61	- 5	54.79	- 1
7	40.42	+ 6	56.06	- 2	18.56	- 3	68.31	+ 7	34.40	- 6	54.81	+ 2
8	40.66	+ 5	55.95	- 5	18.40	- 2	68.07	+ 9	34.19	- 7	54.83	+ 5
9	40.90	+ 3	55.84	- 8	18.24	+ 1	67.83	+ 10	33.98	- 6	54.85	+ 8
10	41.13	0	55.74	- 10	18.09	+ 4	67.59	+ 8	33.77	- 3	54.86	+ 10
11	41.37	- 2	55.64	- 9	17.95	+ 6	67.34	+ 5	33.57	0	54.86	+ 10
12	41.62	- 5	55.55	- 7	17.80	+ 6	67.09	+ 1	33.36	+ 3	54.86	+ 7
13	41.86	- 6	55.47	- 3	17.67	+ 6	66.84	- 3	33.15	+ 5	54.85	+ 4
14	42.10	- 6	55.39	+ 2	17.53	+ 4	66.58	- 7	32.94	+ 6	54.84	- 1
15	42.35	- 4	55.32	+ 6	17.40	+ 1	66.32	- 8	32.73	+ 6	54.82	- 5
16	42.59	- 1	55.25	+ 9	17.28	- 2	66.06	- 8	32.52	+ 4	54.80	- 9
17	42.84	+ 2	55.19	+ 10	17.16	- 5	65.79	- 6	32.31	+ 1	54.77	- 10
18	43.09	+ 4	55.14	+ 9	17.04	- 7	65.52	- 2	32.10	- 2	54.73	- 9
19	43.33	+ 5	55.09	+ 7	16.93	- 7	65.25	+ 1	31.89	- 4	54.69	- 7
20	43.58	+ 5	55.04	+ 3	16.82	- 6	64.97	+ 4	31.68	- 5	54.64	- 4
21	43.83	+ 4	55.01	0	16.71	- 4	64.69	+ 5	31.48	- 5	54.59	0
22	44.07	+ 2	54.98	- 3	16.61	- 1	64.41	+ 5	31.27	- 4	54.53	+ 3
23	44.32	0	54.95	- 5	16.51	+ 1	64.13	+ 4	31.07	- 2	54.47	+ 4
24	44.57	- 3	54.93	- 5	16.42	+ 3	63.84	+ 2	30.86	+ 1	54.40	+ 5
25	44.81	- 4	54.92	- 5	16.33	+ 4	63.56	- 1	30.66	+ 3	54.32	+ 4
26	45.06	- 5	54.91	- 3	16.25	+ 5	63.27	- 3	30.46	+ 4	54.24	+ 3
27	45.31	- 5	54.91	- 1	16.17	+ 4	62.98	- 5	30.26	+ 5	54.15	+ 1
28	45.56	- 4	54.91	+ 1	16.09	+ 3	62.69	- 6	30.06	+ 5	54.06	- 2
29	45.80	- 3	54.92	+ 3	16.02	+ 1	62.39	- 6	29.86	+ 4	53.96	- 3
30	46.05	- 1	54.94	+ 5	15.95	- 1	62.09	- 5	29.66	+ 3	53.86	- 5
31	46.29	+ 1	54.96	+ 5	15.89	- 2	61.79	- 3	29.47	+ 1	53.75	- 5
Aug. 1	46.53	+ 3	54.99	+ 5	15.83	- 4	61.49	0	29.27	- 2	53.63	- 4
2	46.78	+ 5	55.03	+ 3	15.78	- 4	61.19	+ 3	29.08	- 4	53.51	- 3
3	47.02	+ 6	55.07	0	15.73	- 4	60.89	+ 6	28.88	- 6	53.39	0
4	47.26	+ 6	55.11	- 3	15.69	- 2	60.59	+ 8	28.69	- 6	53.26	+ 4
5	47.51	+ 4	55.16	- 7	15.65	0	60.29	+ 9	28.50	- 6	53.12	+ 7
6	47.75	+ 2	55.22	- 9	15.61	+ 2	59.99	+ 9	28.31	- 4	52.98	+ 9
7	47.99	- 1	55.28	- 10	15.58	+ 5	59.69	+ 6	28.12	- 2	52.84	+ 10
8	48.23	- 4	55.35	- 8	15.55 15.53	+ 6 + 6	59.38 59.07	+ 2 - 2	27.94	+ 2	52.69	+ 9
9	48.47	- 6	55.43	- 5	15.51	+ 5	58.76	- 5	27.75	+ 4	52.53	+ 6
sec δ, tg δ	85° 9' 50" 60	11.861 11.868	-11.819 -11.826		85° 20' 60" 70	12.335 12.342	-12.295 -12.302		84° 41' 50" 60	10.821 10.827	-10.774 -10.780	

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.
1920	14 <sup>h</sup> 47 <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> 8 <sup>m</sup>	in 0.01	—87° 39'	in 0.01
Juli	3	77.25 + 7	59.01	— 3	22.47 + 5	30.92	— 2	58.72 + 9	45.57	0		
	4	76.85 + 2	59.21	— 5	22.36 + 3	31.19	— 4	58.74 + 7	45.87	— 3		
	5	76.45 — 4	59.40	— 5	22.24 0	31.46	— 6	58.75 + 4	46.17	— 5		
	6	76.04 — 10	59.59	— 4	22.12 — 3	31.73	— 6	58.75 — 1	46.47	— 7		
	7	75.62 — 15	59.77	— 2	21.99 — 7	31.99	— 5	58.74 — 7	46.77	— 8		
	8	75.20 — 18	59.95	+ 1	21.86 — 10	32.25	— 3	58.72 — 13	47.07	— 6		
	9	74.77 — 17	60.12	+ 5	21.72 — 12	32.51	+ 1	58.69 — 17	47.37	— 3		
	10	74.34 — 13	60.29	+ 8	21.58 — 11	32.76	+ 4	58.65 — 18	47.67	0		
	11	73.90 — 7	60.45	+ 9	21.43 — 8	33.02	+ 7	58.60 — 16	47.96	+ 4		
	12	73.46 + 2	60.61	+ 9	21.28 — 3	33.26	+ 8	58.54 — 10	48.26	+ 7		
	13	73.01 + 9	60.76	+ 7	21.12 + 2	33.51	+ 8	58.47 — 2	48.55	+ 8		
	14	72.56 + 14	60.91	+ 3	20.96 + 6	33.75	+ 6	58.40 + 6	48.85	+ 7		
	15	72.10 + 15	61.05	— 2	20.79 + 9	33.99	+ 2	58.31 + 13	49.14	+ 5		
	16	71.63 + 14	61.18	— 6	20.61 + 10	34.22	— 3	58.22 + 17	49.43	+ 1		
	17	71.16 + 9	61.31	— 9	20.43 + 9	34.45	— 6	58.11 + 17	49.72	— 3		
	18	70.69 + 3	61.44	— 10	20.25 + 6	34.68	— 9	58.00 + 14	50.01	— 6		
	19	70.21 — 3	61.56	— 9	20.06 + 2	34.91	— 9	57.87 + 9	50.30	— 8		
	20	69.73 — 8	61.67	— 7	19.87 — 1	35.13	— 8	57.74 + 3	50.58	— 8		
	21	69.25 — 10	61.78	— 3	19.67 — 4	35.34	— 5	57.60 — 3	50.86	— 6		
	22	68.76 — 9	61.89	0	19.47 — 5	35.56	— 2	57.44 — 6	51.14	— 3		
	23	68.27 — 6	61.99	+ 3	19.27 — 5	35.76	+ 2	57.28 — 8	51.42	0		
	24	67.77 — 1	62.08	+ 5	19.06 — 3	35.97	+ 5	57.12 — 7	51.70	+ 3		
	25	67.28 + 3	62.17	+ 6	18.85 — 1	36.17	+ 6	56.94 — 5	51.98	+ 6		
	26	66.77 + 8	62.26	+ 5	18.63 + 2	36.36	+ 7	56.75 — 2	52.25	+ 7		
	27	66.27 + 11	62.34	+ 4	18.41 + 4	36.55	+ 6	56.56 + 2	52.52	+ 7		
	28	65.76 + 12	62.41	+ 2	18.18 + 5	36.74	+ 4	56.36 + 5	52.79	+ 6		
	29	65.25 + 11	62.48	— 1	17.95 + 6	36.92	+ 2	56.15 + 8	53.05	+ 4		
	30	64.73 + 9	62.54	— 3	17.72 + 6	37.10	— 1	55.92 + 9	53.32	+ 1		
	31	64.21 + 5	62.59	— 5	17.48 + 5	37.28	— 3	55.69 + 9	53.57	— 2		
Aug.	1	63.70 — 1	62.64	— 5	17.24 + 2	37.45	— 5	55.46 + 6	53.83	— 4		
	2	63.18 — 7	62.68	— 5	17.00 — 2	37.61	— 6	55.21 + 2	54.08	— 7		
	3	62.66 — 12	62.72	— 3	16.75 — 5	37.77	— 6	54.95 — 4	54.33	— 8		
	4	62.14 — 16	62.75	— 1	16.50 — 9	37.93	— 4	54.69 — 10	54.58	— 7		
	5	61.62 — 17	62.78	+ 3	16.25 — 11	38.08	— 1	54.42 — 15	54.83	— 5		
	6	61.09 — 15	62.80	+ 6	15.99 — 11	38.22	+ 3	54.14 — 18	55.07	— 1		
	7	60.57 — 10	62.81	+ 9	15.73 — 9	38.36	+ 6	53.85 — 17	55.31	+ 3		
	8	60.04 — 2	62.82	+ 10	15.47 — 6	38.49	+ 8	53.55 — 13	55.55	+ 6		
	9	59.51 + 5	62.82	+ 8	15.20 — 1	38.62	+ 9	53.25 — 6	55.78	+ 8		
sec δ, tg δ	87° 49' 60"	26.450	— 26.432	86° 13' 30"	15.189	— 15.156	87° 39' 50"	24.533	— 24.513			
	70	26.483	— 26.466	40	15.200	— 15.167	60	24.562	— 24.542			

Tag	γ 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.	
1920	19 <sup>h</sup> 34 <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	
Juli	3	57.29	+23	48.39	+2	4.68	+2	31.94	+4	47.49	+3	44.12	+4
	4	57.87	+24	48.67	-1	4.82	+3	32.03	+2	48.05	+8	44.18	+3
	5	58.42	+19	48.95	-4	4.96	+3	32.13	-1	48.60	+12	44.24	0
	6	58.94	+8	49.24	-7	5.10	+3	32.24	-4	49.16	+13	44.31	-3
	7	59.43	-7	49.52	-9	5.24	+2	32.35	-7	49.70	+11	44.39	-6
	8	59.90	-25	49.81	-9	5.38	0	32.46	-10	50.25	+6	44.47	-9
	9	60.34	-40	50.10	-7	5.52	-2	32.58	-10	50.79	-1	44.56	-10
	10	60.75	-49	50.39	-3	5.65	-4	32.70	-9	51.32	-8	44.65	-10
	11	61.14	-49	50.68	+1	5.79	-5	32.83	-6	51.86	-13	44.75	-7
	12	61.49	-38	50.97	+5	5.92	-5	32.97	-2	52.38	-16	44.86	-3
	13	61.82	-20	51.27	+7	6.05	-4	33.11	+3	52.90	-15	44.97	+1
	14	62.12	+4	51.56	+8	6.18	-2	33.25	+7	53.42	-10	45.08	+6
	15	62.40	+26	51.86	+8	6.30	+1	33.40	+9	53.94	-3	45.20	+9
	16	62.65	+43	52.16	+4	6.43	+3	33.56	+9	54.44	+5	45.33	+10
	17	62.87	+51	52.46	0	6.55	+5	33.72	+7	54.95	+12	45.46	+8
	18	63.06	+48	52.76	-3	6.67	+5	33.88	+4	55.45	+16	45.59	+6
	19	63.22	+37	53.06	-6	6.79	+5	34.05	+1	55.94	+17	45.73	+2
	20	63.36	+20	53.36	-7	6.91	+4	34.22	-2	56.43	+14	45.87	-1
	21	63.46	+3	53.66	-6	7.02	+2	34.40	-4	56.92	+9	46.02	-3
	22	63.54	-12	53.95	-4	7.14	0	34.58	-4	57.39	+2	46.18	-4
	23	63.59	-22	54.25	-1	7.25	-2	34.77	-4	57.86	-4	46.34	-4
	24	63.61	-26	54.55	+2	7.36	-3	34.96	-2	58.33	-9	46.50	-3
	25	63.60	-23	54.85	+4	7.47	-3	35.15	0	58.79	-12	46.67	-1
	26	63.57	-16	55.15	+6	7.57	-3	35.35	+2	59.24	-13	46.85	+1
	27	63.50	-7	55.45	+7	7.68	-2	35.55	+4	59.69	-12	47.03	+3
	28	63.41	+5	55.75	+7	7.78	-1	35.76	+5	60.13	-8	47.21	+4
	29	63.29	+15	56.05	+5	7.88	0	35.97	+6	60.56	-4	47.40	+5
	30	63.13	+22	56.35	+3	7.97	+1	36.19	+5	60.99	+1	47.59	+5
	31	62.95	+26	56.64	0	8.07	+2	36.41	+4	61.41	+7	47.79	+4
Aug.	1	62.75	+24	56.94	-3	8.16	+3	36.63	+1	61.82	+11	47.99	+2
	2	62.51	+16	57.24	-6	8.25	+3	36.86	-2	62.22	+13	48.20	-1
	3	62.24	+2	57.54	-8	8.34	+2	37.09	-6	62.62	+12	48.41	-5
	4	61.95	-15	57.83	-9	8.42	+1	37.32	-8	63.01	+8	48.63	-8
	5	61.63	-32	58.13	-7	8.51	-1	37.56	-10	63.39	+2	48.85	-10
	6	61.28	-45	58.42	-5	8.59	-3	37.80	-9	63.76	-5	49.07	-10
	7	60.90	-49	58.71	-1	8.67	-4	38.04	-7	64.13	-11	49.30	-8
	8	60.49	-44	59.00	+3	8.75	-5	38.29	-4	64.49	-16	49.53	-5
	9	60.06	-29	59.29	+6	8.82	-4	38.54	0	64.83	-16	49.77	-1

sec δ, tg δ    89° 12' 50"    72.887    |    72.881    81° 47' 30"    7.003    |    -6.933    87° 54' 40"    27.434    |    -27.416  
                   60    73.146    |    -73.139    40    7.006    |    -6.935    50    27.471    |    -27.453

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.
1920	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° 20'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	—84° 41'	in 0.01
Aug. 9	48.47	—6	55.43	—5	15.51	+5	58.76	—5	27.75	+4	52.53	+6
10	48.70	—6	55.51	—1	15.50	+3	58.45	—7	27.57	+6	52.37	+1
11	48.94	—4	55.60	+4	15.50	—1	58.14	—8	27.39	+6	52.21	—3
12	49.17	—2	55.69	+7	15.51	—4	57.83	—6	27.22	+4	52.04	—7
13	49.41	+1	55.79	+9	15.51	—6	57.52	—3	27.04	+2	51.86	—9
14	49.64	+3	55.89	+9	15.52	—7	57.21	0	26.87	—1	51.68	—9
15	49.87	+5	56.00	+7	15.53	—6	56.90	+3	26.70	—3	51.50	—7
16	50.10	+5	56.12	+4	15.54	—4	56.59	+5	26.53	—5	51.31	—4
17	50.32	+5	56.24	+1	15.56	—2	56.28	+5	26.36	—5	51.11	—1
18	50.55	+3	56.37	—2	15.59	0	55.97	+4	26.20	—4	50.91	+2
19	50.77	+1	56.50	—4	15.62	+3	55.66	+2	26.03	—2	50.71	+4
20	50.99	—2	56.64	—5	15.65	+4	55.35	0	25.88	0	50.50	+5
21	51.20	—4	56.78	—5	15.70	+5	55.04	—3	25.72	+2	50.29	+4
22	51.42	—5	56.93	—4	15.74	+4	54.73	—5	25.57	+4	50.07	+3
23	51.63	—5	57.08	—2	15.79	+3	54.43	—6	25.42	+5	49.85	+1
24	51.84	—5	57.24	0	15.85	+2	54.13	—6	25.27	+5	49.62	—1
25	52.05	—4	57.40	+3	15.91	0	53.82	—6	25.12	+5	49.39	—3
26	52.26	—2	57.57	+4	15.98	—2	53.52	—4	24.98	+4	49.16	—4
27	52.46	0	57.74	+5	16.05	—3	53.22	—2	24.84	+2	48.92	—5
28	52.66	+3	57.92	+5	16.13	—4	52.92	+1	24.70	—1	48.68	—5
29	52.86	+5	58.11	+4	16.21	—4	52.62	+4	24.57	—3	48.43	—4
30	53.06	+6	58.30	+2	16.29	—3	52.32	+7	24.44	—5	48.19	—1
31	53.25	+6	58.49	—2	16.38	—1	52.03	+9	24.31	—6	47.93	+2
Sept. 1	53.44	+5	58.69	—5	16.47	+1	51.73	+9	24.19	—6	47.68	+5
2	53.63	+3	58.90	—8	16.57	+4	51.44	+7	24.07	—5	47.42	+8
3	53.81	0	59.11	—9	16.67	+6	51.15	+4	23.96	—3	47.16	+9
4	53.99	—3	59.32	—9	16.78	+6	50.87	0	23.84	0	46.89	+9
5	54.17	—5	59.54	—6	16.89	+6	50.58	—4	23.74	+3	46.62	+7
6	54.34	—6	59.76	—3	17.01	+4	50.30	—7	23.63	+5	46.35	+3
7	54.51	—5	59.99	+2	17.13	+1	50.02	—8	23.53	+6	46.07	—1
8	54.68	—3	60.22	+6	17.25	—2	49.74	—7	23.43	+5	45.80	—5
9	54.84	—1	60.46	+8	17.38	—5	49.46	—5	23.34	+3	45.51	—8
10	55.00	+2	60.70	+9	17.52	—6	49.19	—1	23.25	0	45.23	—9
11	55.15	+4	60.94	+8	17.65	—6	48.92	+2	23.16	—2	44.94	—8
12	55.31	+6	61.19	+5	17.80	—5	48.65	+5	23.08	—4	44.65	—5
13	55.45	+5	61.44	+2	17.94	—3	48.39	+6	23.00	—5	44.36	—2
14	55.60	+4	61.70	—2	18.09	0	48.13	+5	22.92	—5	44.07	+1
15	55.74	+2	61.96	—4	18.25	+2	47.87	+4	22.85	—3	43.77	+4
sec δ, tg δ	85° 9' 50" 60	11.861 11.868	—11.819 —11.826		85° 20' 50" 60	12.328 12.335	—12.287 —12.295		84° 41' 40" 50	10.815 10.821	—10.768 —10.774	

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.
1920	14 <sup>h</sup> 47 <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> 8 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
Aug. 9	59.51	+ 5	62.82	+ 8	15.20	- 1	38.62	+ 9	53.25	- 6	55.78	+ 8
10	58.99	+ 11	62.82	+ 5	14.93	+ 4	38.75	+ 7	52.94	+ 2	56.01	+ 8
11	58.46	+ 14	62.81	+ 1	14.66	+ 8	38.87	+ 4	52.62	+ 9	56.23	+ 6
12	57.93	+ 14	62.79	- 4	14.38	+ 10	38.98	- 1	52.29	+ 14	56.45	+ 2
13	57.40	+ 10	62.77	- 7	14.11	+ 9	39.09	- 5	51.95	+ 16	56.67	- 1
14	56.87	+ 4	62.75	- 9	13.83	+ 7	39.20	- 8	51.61	+ 14	56.89	- 5
15	56.34	- 2	62.71	- 9	13.54	+ 3	39.30	- 9	51.26	+ 10	57.10	- 8
16	55.81	- 7	62.67	- 7	13.26	0	39.39	- 8	50.90	+ 4	57.31	- 8
17	55.29	- 10	62.63	- 4	12.97	- 4	39.48	- 6	50.54	- 1	57.51	- 7
18	54.76	- 10	62.58	- 1	12.68	- 5	39.56	- 3	50.17	- 5	57.71	- 4
19	54.24	- 7	62.52	+ 2	12.40	- 5	39.64	+ 1	49.79	- 8	57.91	- 1
20	53.72	- 3	62.46	+ 5	12.10	- 4	39.72	+ 4	49.40	- 8	58.11	+ 2
21	53.20	+ 2	62.39	+ 6	11.81	- 2	39.78	+ 6	49.01	- 6	58.29	+ 5
22	52.68	+ 6	62.32	+ 6	11.51	+ 1	39.84	+ 7	48.62	- 3	58.47	+ 7
23	52.16	+ 10	62.24	+ 4	11.21	+ 3	39.90	+ 6	48.22	+ 1	58.65	+ 7
24	51.64	+ 12	62.15	+ 2	10.91	+ 5	39.95	+ 5	47.81	+ 4	58.82	+ 6
25	51.13	+ 12	62.06	0	10.61	+ 6	39.99	+ 3	47.40	+ 7	58.98	+ 5
26	50.62	+ 10	61.96	- 2	10.30	+ 7	40.03	0	46.98	+ 9	59.14	+ 2
27	50.11	+ 7	61.86	- 4	9.99	+ 5	40.06	- 2	46.55	+ 10	59.29	0
28	49.61	+ 2	61.75	- 5	9.68	+ 3	40.09	- 5	46.12	+ 8	59.44	- 3
29	49.10	- 4	61.64	- 6	9.38	0	40.11	- 6	45.68	+ 4	59.59	- 6
30	48.60	- 10	61.52	- 5	9.07	- 3	40.12	- 7	45.24	- 1	59.73	- 7
31	48.11	- 14	61.39	- 2	8.77	- 7	40.13	- 5	44.79	- 7	59.86	- 7
Sept. 1	47.62	- 16	61.26	+ 1	8.46	- 10	40.13	- 3	44.34	- 12	59.99	- 6
2	47.13	- 16	61.13	+ 5	8.15	- 11	40.12	+ 1	43.88	- 16	60.12	- 3
3	46.65	- 11	60.99	+ 7	7.84	- 10	40.11	+ 4	43.42	- 17	60.24	+ 1
4	46.17	- 5	60.84	+ 9	7.54	- 7	40.10	+ 7	42.96	- 14	60.35	+ 5
5	45.69	+ 3	60.69	+ 8	7.23	- 2	40.09	+ 9	42.49	- 9	60.46	+ 7
6	45.22	+ 9	60.54	+ 6	6.92	+ 2	40.07	+ 8	42.02	- 1	60.57	+ 8
7	44.75	+ 14	60.38	+ 2	6.61	+ 6	40.04	+ 5	41.54	+ 6	60.67	+ 7
8	44.29	+ 14	60.21	- 2	6.30	+ 9	40.00	+ 1	41.06	+ 12	60.77	+ 4
9	43.84	+ 12	60.04	- 6	5.99	+ 9	39.96	- 3	40.57	+ 15	60.86	0
10	43.39	+ 6	59.86	- 8	5.68	+ 8	39.91	- 6	40.08	+ 15	60.94	- 4
11	42.95	0	59.68	- 9	5.37	+ 4	39.85	- 9	39.59	+ 11	61.02	- 7
12	42.51	- 6	59.49	- 8	5.06	0	39.79	- 9	39.10	+ 6	61.10	- 8
13	42.08	- 10	59.30	- 5	4.76	- 3	39.73	- 7	38.60	0	61.16	- 8
14	41.65	- 11	59.10	- 2	4.46	- 5	39.65	- 4	38.11	- 5	61.23	- 6
15	41.23	- 9	58.90	+ 2	4.15	- 6	39.57	0	37.60	- 8	61.28	- 2

sec δ, tg δ    87° 49' 60"    26.450    -26.432    86° 13' 30"    15.189    -15.156    87° 39' 50"    24.533    -24.513  
                        70    26.483    -26.466                     40    15.200    -15.167                         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.
1920	19 <sup>h</sup> 34 <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
Aug. 9	60.06	-29	59.29	+6	8.82	-4	38.54	0	4.83	-16	49.77	-1
10	59.60	-8	59.57	+8	8.90	-3	38.79	+5	5.17	-13	50.01	+3
11	59.11	+14	59.86	+7	8.97	0	39.05	+8	5.51	-7	50.25	+7
12	58.59	+34	60.14	+5	9.03	+2	39.31	+9	5.83	+2	50.50	+9
13	58.05	+45	60.42	+2	9.10	+4	39.57	+8	6.14	+9	50.75	+8
14	57.48	+47	60.70	-2	9.16	+5	39.83	+5	6.45	+15	51.00	+6
15	56.89	+39	60.98	-5	9.22	+5	40.10	+2	6.75	+17	51.26	+3
16	56.26	+24	61.26	-7	9.28	+4	40.37	-1	7.04	+15	51.52	0
17	55.61	+7	61.53	-7	9.33	+2	40.64	-3	7.32	+11	51.78	-3
18	54.93	-8	61.80	-5	9.38	0	40.92	-5	7.59	+5	52.05	-4
19	54.22	-20	62.06	-2	9.43	-1	41.19	-5	7.85	-2	52.32	-5
20	53.49	-25	62.33	+1	9.48	-3	41.48	-3	8.10	-8	52.59	-4
21	52.73	-25	62.59	+4	9.52	-3	41.76	-1	8.34	-12	52.86	-2
22	51.95	-19	62.85	+6	9.56	-3	42.04	+1	8.57	-13	53.14	0
23	51.14	-10	63.11	+7	9.60	-3	42.33	+3	8.79	-12	53.42	+2
24	50.31	+1	63.36	+7	9.63	-2	42.62	+5	9.00	-10	53.70	+4
25	49.45	+12	63.61	+6	9.66	0	42.90	+6	9.20	-5	53.99	+5
26	48.57	+21	63.86	+4	9.69	+1	43.20	+6	9.39	0	54.28	+6
27	47.66	+26	64.10	+1	9.72	+2	43.49	+4	9.57	+5	54.57	+5
28	46.73	+26	64.34	-2	9.74	+3	43.78	+2	9.74	+9	54.86	+3
29	45.77	+22	64.58	-5	9.76	+3	44.08	-1	9.90	+13	55.16	0
30	44.79	+10	64.81	-7	9.78	+3	44.38	-4	10.05	+13	55.45	-3
31	43.79	-6	65.04	-8	9.79	+2	44.67	-7	10.19	+10	55.75	-6
Sept. 1	42.76	-23	65.26	-8	9.80	0	44.97	-9	10.32	+6	56.05	-8
2	41.71	-37	65.48	-6	9.81	-2	45.27	-9	10.44	-1	56.35	-10
3	40.65	-46	65.70	-2	9.82	-4	45.57	-8	10.54	-8	56.66	-9
4	39.56	-45	65.91	+2	9.82	-5	45.87	-5	10.64	-14	56.96	-6
5	38.44	-35	66.12	+5	9.82	-5	46.18	-1	10.73	-16	57.27	-2
6	37.31	-17	66.33	+7	9.82	-4	46.48	+3	10.80	-14	57.58	+2
7	36.16	+5	66.53	+8	9.82	-2	46.78	+6	10.86	-9	57.89	+6
8	34.98	+25	66.73	+6	9.81	+1	47.08	+8	10.91	-2	58.20	+8
9	33.79	+40	66.92	+3	9.80	+3	47.39	+8	10.95	+6	58.51	+8
10	32.57	+45	67.11	-1	9.78	+5	47.69	+6	10.98	+12	58.82	+7
11	31.34	+41	67.30	-4	9.77	+5	47.99	+3	11.00	+16	59.13	+4
12	30.09	+28	67.48	-6	9.75	+4	48.29	-1	11.01	+16	59.44	+1
13	28.82	+12	67.65	-7	9.73	+3	48.59	-3	11.01	+13	59.75	-2
14	27.53	-5	67.82	-6	9.71	+1	48.89	-5	11.00	+7	60.07	-4
15	26.22	-18	67.98	-4	9.68	-1	49.19	-5	10.97	0	60.38	-5
sec $\delta$ , tg $\delta$	89° 12' 60"	73.146	-73.139		81° 47' 40"	7.006	-6.935		87° 54' 50"	27.471	-27.453	
	70	73.406	-73.399		50	7.009	-6.937		60	27.508	-27.490	



# 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.
1920	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	—85° 10'	in 0.01	9 <sup>h</sup> 8 <sup>m</sup>	in 0.01	—85° 20'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	—84° 41'	in 0.01
Sept. 15	55.74	+ 2	1.96	— 4	18.25	+ 2	47.87	+ 4	22.85	— 3	43.77	+ 4
16	55.88	— 1	2.22	— 5	18.41	+ 4	47.62	+ 1	22.78	— 1	43.47	+ 5
17	56.01	— 3	2.49	— 5	18.58	+ 5	47.37	— 2	22.72	+ 1	43.16	+ 5
18	56.14	— 5	2.76	— 4	18.74	+ 5	47.12	— 4	22.66	+ 3	42.86	+ 4
19	56.27	— 5	3.04	— 3	18.92	+ 4	46.88	— 6	22.60	+ 5	42.55	+ 2
20	56.40	— 5	3.32	0	19.09	+ 2	46.64	— 6	22.55	+ 5	42.25	0
21	56.52	— 4	3.60	+ 2	19.27	+ 1	46.41	— 6	22.50	+ 5	41.94	— 2
22	56.63	— 3	3.88	+ 4	19.45	— 1	46.18	— 5	22.46	+ 4	41.63	— 4
23	56.74	— 1	4.17	+ 5	19.64	— 3	45.96	— 3	22.42	+ 2	41.32	— 5
24	56.84	+ 2	4.46	+ 5	19.83	— 4	45.74	0	22.39	0	41.01	— 5
25	56.93	+ 4	4.76	+ 4	20.02	— 4	45.52	+ 3	22.36	— 2	40.70	— 4
26	57.02	+ 5	5.06	+ 3	20.22	— 4	45.31	+ 6	22.33	— 4	40.40	— 2
27	57.11	+ 6	5.36	0	20.42	— 2	45.10	+ 8	22.31	— 6	40.09	0
28	57.20	+ 6	5.66	— 3	20.63	0	44.89	+ 9	22.29	— 6	39.77	+ 4
29	57.28	+ 4	5.97	— 7	20.83	+ 2	44.69	+ 8	22.28	— 6	39.46	+ 6
Okt. 30	57.35	+ 1	6.27	— 8	21.05	+ 5	44.50	+ 5	22.27	— 4	39.14	+ 8
1	57.43	— 2	6.58	— 9	21.26	+ 6	44.31	+ 1	22.27	— 1	38.83	+ 9
2	57.50	— 4	6.89	— 7	21.48	+ 6	44.13	— 3	22.27	+ 2	38.51	+ 7
3	57.56	— 6	7.20	— 4	21.70	+ 4	43.95	— 6	22.28	+ 6	38.20	+ 4
4	57.62	— 6	7.51	0	21.93	+ 2	43.78	— 8	22.29	+ 6	37.88	0
5	57.67	— 4	7.83	+ 5	22.16	— 1	43.61	— 8	22.31	+ 4	37.57	— 4
6	57.72	— 2	8.15	+ 8	22.39	— 4	43.45	— 6	22.33	+ 2	37.25	— 7
7	57.77	+ 1	8.47	+ 9	22.62	— 6	43.29	— 3	22.36	— 1	36.93	— 9
8	57.81	+ 4	8.78	+ 9	22.85	— 7	43.14	+ 1	22.40	— 4	36.62	— 8
9	57.84	+ 5	9.10	+ 6	23.09	— 6	42.99	+ 4	22.43	— 5	36.31	— 6
10	57.87	+ 6	9.43	+ 3	23.33	— 4	42.85	+ 6	22.48	— 5	35.99	— 3
11	57.90	+ 4	9.75	— 1	23.57	— 1	42.72	+ 6	22.52	— 4	35.68	0
12	57.92	+ 2	10.07	— 3	23.82	+ 1	42.59	+ 5	22.57	— 2	35.37	+ 3
13	57.93	0	10.40	— 5	24.07	+ 3	42.47	+ 2	22.63	0	35.06	+ 5
14	57.94	— 2	10.72	— 6	24.32	+ 4	42.35	0	22.69	+ 2	34.75	+ 5
15	57.95	— 4	11.05	— 5	24.57	+ 5	42.24	— 3	22.75	+ 4	34.45	+ 5
16	57.95	— 5	11.37	— 3	24.82	+ 4	42.13	— 5	22.82	+ 5	34.14	+ 3
17	57.95	— 5	11.70	— 1	25.08	+ 3	42.03	— 6	22.89	+ 5	33.84	+ 1
18	57.94	— 5	12.02	+ 1	25.34	+ 1	41.94	— 6	22.97	+ 4	33.53	— 1
19	57.92	— 3	12.35	+ 3	25.60	0	41.85	— 5	23.05	+ 3	33.23	— 3
20	57.90	— 1	12.67	+ 4	25.86	— 2	41.77	— 4	23.14	+ 1	32.93	— 4
21	57.88	+ 1	13.00	+ 5	26.12	— 3	41.70	— 1	23.23	— 1	32.64	— 5
22	57.85	+ 3	13.32	+ 5	26.38	— 4	41.63	+ 2	23.32	— 4	32.34	— 4
sec δ, tg δ	85° 10' 0"	11.868	— 11.826		85° 20' 40"	12.321	— 12.280		84° 41' 30"	10.809	— 10.763	
	10	11.875	— 11.833		50	12.328	— 12.287		40	10.815	— 10.768	

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.
1920	14 <sup>h</sup> 47 <sup>m</sup>	in 0.01	-87° 49'	in 0.01	16 <sup>h</sup> 30 <sup>m</sup>	in 0.01	-86° 13'	in 0.01	18 <sup>h</sup> 8 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
Sept. 15	41.23	- 9	58.90	+ 2	64.15	- 6	39.57	0	37.60	- 8	61.28	- 2
16	40.82	- 5	58.69	+ 4	63.85	- 5	39.49	+ 3	37.10	- 9	61.33	+ 1
17	40.41	0	58.48	+ 6	63.55	- 3	39.40	+ 5	36.59	- 7	61.37	+ 4
18	40.01	+ 4	58.26	+ 6	63.25	0	39.31	+ 7	36.08	- 4	61.41	+ 6
19	39.62	+ 9	58.04	+ 5	62.95	+ 2	39.21	+ 7	35.58	- 1	61.44	+ 7
20	39.23	+ 11	57.82	+ 3	62.66	+ 4	39.10	+ 6	35.07	+ 3	61.46	+ 7
21	38.85	+ 12	57.59	+ 1	62.36	+ 6	38.99	+ 4	34.55	+ 6	61.48	+ 6
22	38.48	+ 11	57.36	- 1	62.07	+ 6	38.87	+ 1	34.04	+ 8	61.50	+ 3
23	38.12	+ 8	57.12	- 3	61.78	+ 6	38.75	- 1	33.53	+ 9	61.50	+ 1
24	37.76	+ 4	56.88	- 5	61.49	+ 4	38.62	- 4	33.01	+ 9	61.51	- 2
25	37.41	- 2	56.63	- 6	61.20	+ 2	38.48	- 6	32.50	+ 6	61.50	- 5
26	37.07	- 8	56.38	- 5	60.92	- 2	38.34	- 7	31.98	+ 1	61.49	- 7
27	36.74	- 13	56.13	- 3	60.64	- 5	38.19	- 6	31.46	- 4	61.47	- 7
28	36.42	- 16	55.87	- 1	60.36	- 8	38.04	- 4	30.95	- 10	61.45	- 7
29	36.10	- 16	55.61	+ 3	60.08	- 10	37.88	- 1	30.43	- 14	61.42	- 4
Okt. 30	35.80	- 13	55.34	+ 6	59.81	- 10	37.72	+ 3	29.92	- 16	61.38	- 1
1	35.50	- 7	55.07	+ 8	59.54	- 8	37.55	+ 6	29.41	- 15	61.34	+ 3
2	35.21	0	54.80	+ 8	59.27	- 4	37.38	+ 8	28.89	- 10	61.30	+ 6
3	34.94	+ 7	54.53	+ 7	59.01	+ 1	37.20	+ 8	28.38	- 3	61.24	+ 8
4	34.67	+ 13	54.25	+ 4	58.75	+ 5	37.02	+ 6	27.88	+ 4	61.19	+ 8
5	34.41	+ 15	53.97	0	58.49	+ 9	36.84	+ 3	27.37	+ 10	61.12	+ 6
6	34.16	+ 14	53.68	- 5	58.24	+ 10	36.65	- 1	26.86	+ 15	61.05	+ 2
7	33.92	+ 9	53.39	- 8	57.99	+ 9	36.45	- 5	26.36	+ 16	60.97	- 2
8	33.69	+ 3	53.10	- 9	57.75	+ 6	36.25	- 8	25.86	+ 13	60.89	- 5
9	33.47	- 4	52.81	- 9	57.50	+ 2	36.04	- 9	25.36	+ 8	60.80	- 8
10	33.26	- 9	52.52	- 6	57.27	- 2	35.83	- 8	24.86	+ 2	60.71	- 8
11	33.06	- 11	52.22	- 3	57.04	- 5	35.61	- 5	24.37	- 4	60.61	- 6
12	32.87	- 11	51.92	+ 1	56.81	- 6	35.39	- 2	23.88	- 7	60.50	- 4
13	32.68	- 8	51.62	+ 3	56.58	- 6	35.17	+ 2	23.39	- 9	60.39	0
14	32.51	- 3	51.32	+ 5	56.37	- 4	34.94	+ 4	22.91	- 9	60.27	+ 3
15	32.35	+ 2	51.01	+ 6	56.15	- 2	34.71	+ 6	22.43	- 6	60.15	+ 5
16	32.20	+ 7	50.70	+ 6	55.94	+ 1	34.47	+ 7	21.95	- 3	60.02	+ 7
17	32.06	+ 10	50.39	+ 4	55.73	+ 4	34.23	+ 6	21.48	+ 1	59.88	+ 7
18	31.94	+ 12	50.08	+ 2	55.53	+ 5	33.98	+ 5	21.01	+ 5	59.74	+ 6
19	31.82	+ 11	49.76	0	55.33	+ 6	33.73	+ 2	20.54	+ 7	59.59	+ 4
20	31.72	+ 9	49.45	- 2	55.14	+ 6	33.48	0	20.08	+ 9	59.44	+ 2
21	31.62	+ 5	49.13	- 4	54.96	+ 5	33.22	- 3	19.63	+ 8	59.28	- 1
22	31.54	0	48.82	- 5	54.77	+ 2	32.96	- 5	19.18	+ 6	59.12	- 4
sec δ, tg δ	87° 49' 50"	26.417	-26.398		86° 13' 30"	15.189	-15.156		87° 39' 60"	24.562	-24.542	
	60	26.450	-26.432		40	15.200	-15.167		70	24.591	-24.571	

# Obere Kulmination Greenwich

Tag	σ Octantis 6 <sup>m</sup>				β Octantis 4 <sup>m</sup> .I				τ Octantis 6 <sup>m</sup>			
	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.	AR.	♁ Gl.	Dekl.	♁ Gl.
1920	19 <sup>h</sup> 33 <sup>m</sup>	in 0.01	-89° 13'	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° 55'	in 0.01
Sept. 15	86.22	-18	7.98	-4	9.68	-1	49.19	-5	10.97	0	0.38	-5
16	84.90	-25	8.14	-1	9.65	-2	49.49	-4	10.94	-6	0.69	-4
17	83.56	-27	8.29	+2	9.62	-3	49.79	-2	10.89	-10	1.00	-3
18	82.21	-22	8.44	+5	9.58	-3	50.08	0	10.83	-13	1.31	-1
19	80.84	-14	8.58	+6	9.54	-3	50.38	+3	10.76	-13	1.62	+2
20	79.46	-4	8.72	+7	9.50	-2	50.68	+4	10.68	-11	1.93	+3
21	78.06	+7	8.86	+6	9.46	-1	50.97	+5	10.58	-7	2.24	+5
22	76.65	+17	8.99	+5	9.41	0	51.26	+6	10.48	-2	2.56	+5
23	75.22	+24	9.11	+2	9.36	+2	51.55	+5	10.37	+3	2.87	+5
24	73.78	+26	9.23	-1	9.31	+3	51.84	+3	10.24	+8	3.18	+4
25	72.33	+24	9.34	-4	9.26	+3	52.13	+1	10.11	+11	3.49	+1
26	70.87	+15	9.44	-6	9.20	+3	52.42	-2	9.96	+13	3.80	-1
27	69.40	+1	9.54	-8	9.14	+2	52.71	-6	9.80	+12	4.11	-5
28	67.92	-14	9.63	-8	9.08	+1	52.99	-8	9.63	+8	4.41	-7
29	66.42	-30	9.72	-7	9.01	-1	53.27	-9	9.45	+2	4.71	-9
30	64.92	-41	9.80	-4	8.94	-3	53.55	-8	9.26	-5	5.01	-9
Okt. 1	63.41	-44	9.88	0	8.87	-4	53.82	-6	9.06	-11	5.31	-7
2	61.89	-37	9.95	+4	8.80	-5	54.10	-2	8.85	-15	5.61	-3
3	60.36	-22	10.01	+7	8.72	-4	54.37	+2	8.63	-15	5.91	+1
4	58.83	-2	10.07	+8	8.65	-2	54.63	+6	8.40	-12	6.20	+5
5	57.29	+19	10.12	+7	8.56	0	54.90	+8	8.15	-5	6.49	+7
6	55.74	+37	10.17	+5	8.48	+2	55.16	+8	7.90	+3	6.78	+9
7	54.19	+45	10.21	+1	8.39	+4	55.42	+7	7.64	+10	7.07	+8
8	52.63	+44	10.24	-3	8.31	+5	55.67	+4	7.36	+15	7.35	+5
9	51.07	+34	10.27	-6	8.21	+5	55.92	+1	7.08	+17	7.63	+2
10	49.51	+18	10.29	-7	8.12	+4	56.17	-2	6.78	+14	7.90	-1
11	47.94	+1	10.31	-7	8.03	+2	56.41	-5	6.48	+9	8.18	-4
12	46.37	-15	10.32	-5	7.93	0	56.65	-6	6.16	+3	8.45	-5
13	44.80	-25	10.32	-2	7.83	-2	56.89	-5	5.84	-4	8.72	-5
14	43.23	-28	10.32	+1	7.74	-3	57.12	-3	5.51	-9	8.99	-4
15	41.66	-26	10.31	+4	7.63	-3	57.35	-1	5.16	-12	9.25	-2
16	40.09	-18	10.29	+6	7.53	-3	57.58	+2	4.81	-13	9.51	0
17	38.52	-8	10.27	+7	7.42	-3	57.80	+4	4.45	-12	9.77	+3
18	36.95	+3	10.24	+7	7.32	-1	58.02	+5	4.07	-9	10.02	+4
19	35.38	+13	10.21	+5	7.20	0	58.23	+6	3.69	-4	10.27	+5
20	33.81	+20	10.17	+3	7.09	+1	58.44	+5	3.30	+1	10.51	+5
21	32.25	+24	10.12	0	6.98	+2	58.64	+4	2.90	+6	10.75	+4
22	30.69	+23	10.07	-2	6.86	+3	58.84	+1	2.50	+10	10.98	+2
sec δ, tg δ	89° 13' 0"   73.146   -73.139	10   73.406   -73.399	81° 47' 50"   7.009   -6.937	60   7.011   -6.940	87° 55' 0"   27.508   -27.490	10   27.545   -27.527						

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.
1920	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 10'	in 0.01	9 <sup>h</sup> 8 <sup>m</sup>	in 0.01	-85° 20'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	-84° 41'	in 0.01
Okt. 22	57.85	+3	13.32	+5	26.38	-4	41.63	+2	23.32	-4	32.05	-3
23	57.81	+5	13.65	+3	26.65	-4	41.56	+5	23.42	-5	31.76	0
24	57.77	+6	13.97	+1	26.92	-3	41.50	+8	23.52	-6	31.47	+3
25	57.73	+6	14.30	-2	27.19	-1	41.45	+9	23.63	-6	31.18	+6
26	57.68	+4	14.62	-5	27.46	+1	41.40	+8	23.74	-5	30.90	+8
27	57.62	+2	14.94	-8	27.74	+4	41.36	+6	23.86	-2	30.62	+9
28	57.57	-1	15.26	-9	28.01	+5	41.33	+3	23.98	+1	30.34	+8
29	57.50	-4	15.58	-8	28.28	+6	41.31	-1	24.10	+4	30.07	+5
30	57.43	-5	15.90	-5	28.56	+5	41.29	-5	24.23	+6	29.80	+1
31	57.36	-6	16.22	-1	28.83	+3	41.27	-8	24.36	+6	29.54	-3
Nov. 1	57.29	-5	16.53	+3	29.10	0	41.27	-9	24.50	+5	29.27	-7
2	57.20	-3	16.84	+7	29.38	-3	41.27	-7	24.64	+3	29.02	-9
3	57.12	0	17.16	+9	29.65	-6	41.28	-5	24.79	0	28.76	-9
4	57.03	+3	17.47	+9	29.93	-7	41.29	-1	24.94	-3	28.51	-8
5	56.93	+5	17.78	+8	30.21	-6	41.31	+3	25.09	-5	28.26	-5
6	56.83	+5	18.08	+5	30.48	-5	41.34	+5	25.25	-5	28.02	-1
7	56.73	+5	18.38	+1	30.76	-2	41.38	+6	25.41	-5	27.78	+2
8	56.62	+4	18.68	-2	31.03	0	41.42	+5	25.57	-3	27.54	+4
9	56.50	+1	18.97	-5	31.31	+3	41.47	+3	25.74	-1	27.31	+5
10	56.39	-1	19.27	-5	31.58	+4	41.52	+1	25.91	+2	27.08	+5
11	56.26	-3	19.56	-5	31.86	+5	41.58	-2	26.09	+4	26.86	+4
12	56.14	-5	19.84	-4	32.13	+5	41.65	-4	26.26	+5	26.64	+2
13	56.01	-5	20.13	-2	32.41	+4	41.73	-6	26.45	+5	26.43	0
14	55.87	-5	20.41	0	32.68	+2	41.81	-6	26.63	+5	26.22	-2
15	55.73	-4	20.69	+2	32.95	0	41.90	-6	26.82	+4	26.02	-4
16	55.58	-2	20.96	+4	33.22	-1	41.99	-4	27.02	+2	25.82	-5
17	55.44	0	21.23	+5	33.49	-3	42.10	-2	27.22	-1	25.63	-5
18	55.28	+2	21.50	+5	33.75	-4	42.20	+1	27.42	-3	25.44	-3
19	55.12	+4	21.76	+4	34.02	-4	42.32	+4	27.62	-5	25.26	-1
20	54.96	+6	22.02	+1	34.28	-3	42.44	+7	27.83	-6	25.08	+2
21	54.80	+6	22.27	-1	34.55	-1	42.56	+9	28.03	-6	24.91	+5
22	54.62	+5	22.53	-5	34.81	+1	42.69	+9	28.24	-6	24.75	+8
23	54.45	+3	22.77	-8	35.07	+3	42.83	+8	28.45	-3	24.59	+9
24	54.27	+1	23.02	-9	35.33	+5	42.97	+5	28.66	0	24.43	+9
25	54.09	-2	23.26	-9	35.59	+6	43.12	+1	28.88	+2	24.28	+7
26	53.91	-5	23.49	-7	35.85	+6	43.28	-4	29.10	+5	24.13	+3
27	53.72	-6	23.72	-3	36.10	+4	43.44	-7	29.32	+6	23.99	-1
28	53.53	-6	23.95	+2	36.35	+1	43.61	-8	29.55	+6	23.86	-5
sec δ, tg δ	85° 10' 10"	11.875	-11.833		85° 20' 40"	12.321	-12.280		84° 41' 20"	10.803	-10.757	
	20	11.882	-11.840		50	12.328	-12.287		30	10.809	-10.763	

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.
1920	14 <sup>h</sup> 47 <sup>m</sup>	in 0.01	-87° 49'	in 0.01	16 <sup>h</sup> 30 <sup>m</sup>	in 0.01	-86° 13'	in 0.01	18 <sup>h</sup> 8 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
Okt. 22	31.54	0	48.82	-5	54.77	+2	32.96	-5	19.18	+6	59.12	-4
23	31.46	-6	48.50	-5	54.60	-1	32.70	-6	18.74	+2	58.95	-6
24	31.40	-11	48.18	-4	54.43	-4	32.43	-6	18.30	-2	58.77	-7
25	31.35	-15	47.86	-2	54.26	-8	32.16	-5	17.87	-8	58.59	-7
26	31.31	-16	47.54	+2	54.10	-10	31.89	-2	17.44	-13	58.41	-6
27	31.28	-15	47.22	+5	53.95	-10	31.61	+1	17.02	-16	58.22	-2
28	31.26	-10	46.90	+7	53.80	-9	31.33	+5	16.60	-16	58.03	+2
29	31.26	-3	46.58	+8	53.65	-6	31.05	+7	16.19	-12	57.83	+5
30	31.26	+5	46.25	+7	53.52	-1	30.76	+8	15.79	-6	57.62	+7
31	31.28	+11	45.93	+5	53.39	+4	30.47	+7	15.40	+2	57.41	+8
Nov. 1	31.31	+15	45.60	+1	53.26	+8	30.18	+4	15.01	+9	57.20	+7
2	31.35 31.40	+15 +12	45.28 44.96	-3 -7	53.14	+10	29.88	0	14.63	+14	56.98	+4
3	31.47	+6	44.64	-9	53.03	+10	29.58	-4	14.25	+17	56.75	0
4	31.54	0	44.32	-9	52.92	+8	29.28	-7	13.88	+15	56.52	-4
5	31.63	-6	44.00	-8	52.82	+4	28.98	-9	13.52	+11	56.29	-7
6	31.72	-10	43.68	-5	52.72	0	28.68	-8	13.17	+5	56.05	-8
7	31.83	-11	43.36	-1	52.64	-3	28.37	-6	12.82	-1	55.81	-7
8	31.95	-9	43.05	+2	52.55	-6	28.06	-3	12.48	-6	55.57	-5
9	32.08	-5	42.73	+5	52.48	-6	27.75	0	12.16	-9	55.32	-2
10	32.22	0	42.42	+6	52.41	-5	27.44	+3	11.84	-9	55.06	+2
11	32.38	+5	42.10	+6	52.35	-3	27.13	+6	11.52	-7	54.81	+4
12	32.54	+9	41.79	+5	52.29	0	26.82	+7	11.22	-4	54.54	+6
13	32.72	+11	41.48	+3	52.25	+3	26.50	+7	10.93	0	54.28	+7
14	32.91	+12	41.17	+1	52.20	+5	26.18	+5	10.64	+4	54.01	+7
15	33.11	+10	40.87	-1	52.17	+6	25.86	+3	10.36	+7	53.73	+5
16	33.32	+7	40.56	-3	52.14	+6	25.54	+1	10.09	+8	53.45	+3
17	33.54	+2	40.27	-5	52.12	+5	25.22	-2	9.84	+9	53.17	0
18	33.77	-4	39.97	-5	52.10	+3	24.90	-4	9.59	+7	52.88	-3
19	34.01	-10	39.67	-4	52.09	0	24.58	-6	9.35	+4	52.59	-5
20	34.26	-14	39.38	-2	52.09	-4	24.26	-6	9.12	-1	52.30	-7
21	34.53	-17	39.09	+1	52.09	-7	23.94	-5	8.90	-6	52.01	-7
22	34.80	-17	38.79	+4	52.10	-10	23.62	-3	8.69	-12	51.71	-6
23	35.08	-13	38.51	+7	52.12	-11	23.29	0	8.49	-16	51.42	-4
24	35.38	-7	38.22	+9	52.14	-10	22.97	+4	8.29	-17	51.11	0
25	35.69	+1	37.94	+8	52.17	-8	22.65	+7	8.11	-15	50.81	+4
26	36.00	+8	37.66	+6	52.21	-3	22.32	+8	7.94	-9	50.50	+7
27	36.33	+14	37.39	+3	52.25	+2	21.99	+8	7.78	-2	50.19	+8
28	36.66	+16	37.11	-2	52.30 52.36	+6 +10	21.67 21.35	+6 +2	7.63	+6	49.88	+7

sec δ, tg δ    87° 49' 40" | 26.383 | -26.364 | 86° 13' 20" | 15.178 | -15.145 | 87° 39' 50" | 24.533 | -24.513  
                   50 | 26.417 | -26.398 |            30 | 15.189 | -15.156 |            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.
1920	19 <sup>h</sup> 32 <sup>m</sup>	in 0.01	-89° 13'	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° 55'	in 0.01
Okt. 22	90.69	+23	10.07	-2	6.86	+3	58.84	+1	62.50	+10	10.98	+2
23	89.14	+17	10.01	-5	6.74	+3	59.03	-2	62.08	+12	11.21	-1
24	87.59	+5	9.94	-8	6.63	+2	59.22	-5	61.66	+13	11.44	-4
25	86.05	-10	9.87	-8	6.50	+1	59.41	-7	61.23	+10	11.66	-7
26	84.52	-25	9.79	-8	6.38	0	59.59	-9	60.79	+5	11.88	-9
27	82.99	-38	9.70	-5	6.25	-2	59.76	-9	60.34	-2	12.09	-9
28	81.48	-44	9.61	-2	6.13	-4	59.93	-7	59.88	-9	12.30	-8
29	79.97	-41	9.51	+2	6.00	-5	60.10	-4	59.42	-14	12.51	-5
30	78.46	-28	9.41	+6	5.87	-4	60.26	0	58.95	-15	12.71	-1
31	76.97	-9	9.30	+8	5.74	-3	60.41	+5	58.47	-13	12.90	+3
Nov. 1	75.49	+13	9.19	+8	5.61	-1	60.56	+8	57.98	-8	13.09	+7
2	74.01	+33	9.07	+6	5.48	+2	60.70	+9	57.49	0	13.27	+9
3	72.55	+45	8.94	+3	5.35	+4	60.84	+8	57.00	+7	13.45	+9
4	71.11	+48	8.81	-1	5.21	+5	60.97	+6	56.49	+13	13.62	+7
5	69.67	+41	8.67	-4	5.08	+5	61.10	+2	55.98	+16	13.79	+4
6	68.25	+27	8.52	-6	4.94	+4	61.22	-1	55.46	+16	13.95	0
7	66.84	+9	8.37	-7	4.81	+3	61.34	-4	54.93	+12	14.11	-3
8	65.45	-8	8.21	-6	4.67	+1	61.45	-5	54.40	+6	14.26	-5
9	64.07	-21	8.05	-3	4.53	-1	61.55	-5	53.87	-1	14.41	-5
10	62.70	-28	7.88	0	4.39	-3	61.65	-4	53.33	-7	14.55	-4
11	61.35	-27	7.71	+3	4.25	-3	61.74	-2	52.78	-11	14.68	-3
12	60.02	-21	7.53	+5	4.10	-3	61.83	+1	52.23	-13	14.81	0
13	58.71	-12	7.34	+7	3.96	-3	61.91	+3	51.68	-13	14.93	+2
14	57.42	-2	7.15	+7	3.82	-2	61.98	+5	51.12	-10	15.05	+4
15	56.14	+9	6.95	+6	3.68	-1	62.05	+5	50.55	-6	15.16	+5
16	54.88	+18	6.75	+4	3.54	+1	62.11	+5	49.98	-1	15.26	+5
17	53.64	+23	6.54	+2	3.39	+2	62.17	+4	49.41	+4	15.36	+5
18	52.42	+23	6.33	-1	3.25	+3	62.22	+2	48.83	+8	15.45	+3
19	51.22	+18	6.11	-4	3.10	+3	62.26	-1	48.25	+11	15.53	0
20	50.04	+8	5.89	-7	2.95	+3	62.29	-4	47.67	+12	15.61	-3
21	48.88	-6	5.66	-8	2.81	+2	62.32	-7	47.09	+11	15.69	-6
22	47.75	-22	5.43	-8	2.66	0	62.35	-9	46.50	+6	15.75	-8
23	46.63	-36	5.19	-7	2.51	-2	62.37	-10	45.92	0	15.82	-10
24	45.54	-45	4.95	-3	2.37	-3	62.38	-9	45.32	-7	15.87	-9
25	44.47	-45	4.71	+1	2.22	-4	62.39	-6	44.73	-12	15.92	-7
26	43.42	-36	4.46	+4	2.07	-5	62.39	-2	44.13	-15	15.96	-3
27	42.40	-19	4.20	+7	1.93	-3	62.38	+3	43.53	-15	16.00	+2
28	41.40	+4	3.94	+8	1.78	-2	62.36	+6	42.93	-11	16.03	+6
sec $\delta$ , tg $\delta$	89° 13' 0"	73.146	-73.139		81° 47' 50"	7.009	-6.937		87° 55' 10"	27.545	-27.527	
	10	73.406	-73.399		60	7.011	-6.940		20	27.582	-27.563	

# 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.
1920	1 <sup>h</sup> 41 <sup>m</sup>	in 0.01	-85° 10'	in 0.01	9 <sup>h</sup> 8 <sup>m</sup>	in 0.01	-85° 20'	in 0.01	12 <sup>h</sup> 46 <sup>m</sup>	in 0.01	-84° 41'	in 0.01
Nov. 28	53.53	-6	23.95	+2	36.35	+1	43.61	-8	29.55	+6	23.86	-5
29	53.33	-4	24.17	+6	36.60	-2	43.78	-8	29.78	+4	23.74	-8
30	53.14	-2	24.39	+9	36.84	-5	43.96	-6	30.01	+1	23.62	-10
Dez. 1	52.93	+1	24.60	+10	37.09	-7	44.15	-3	30.24	-1	23.50	-9
2	52.73	+4	24.81	+9	37.33	-7	44.34	+1	30.47	-4	23.39	-7
3	52.52	+5	25.01	+7	37.57	-6	44.54	+4	30.70	-5	23.29	-3
4	52.31	+5	25.21	+3	37.80	-4	44.74	+5	30.94	-5	23.19	0
5	52.10	+4	25.40	-1	38.03	-1	44.95	+5	31.18	-4	23.10	+3
6	51.88	+2	25.58	-3	38.26	+1	45.17	+4	31.43	-2	23.02	+5
7	51.66	0	25.76	-5	38.48	+3	45.39	+2	31.67	+1	22.94	+5
8	51.43	-2	25.94	-5	38.70	+4	45.61	-1	31.92	+3	22.87	+4
9	51.21	-4	26.10	-5	38.92	+5	45.85	-4	32.17	+5	22.81	+2
10	50.98	-5	26.27	-3	39.14	+4	46.08	-6	32.41	+5	22.75	0
11	50.75	-5	26.43	-1	39.35	+2	46.32	-6	32.66	+5	22.69	-2
12	50.52	-4	26.58	+2	39.57	+1	46.57	-6	32.92	+4	22.65	-4
13	50.28	-3	26.73	+3	39.77	-1	46.82	-5	33.17	+3	22.61	-5
14	50.04	-1	26.87	+4	39.98	-2	47.08	-3	33.42	0	22.57	-5
15	49.80	+1	27.01	+5	40.18	-3	47.34	0	33.68	-2	22.54	-4
16	49.56	+3	27.14	+4	40.38	-4	47.61	+3	33.93	-4	22.52	-2
17	49.31	+5	27.26	+2	40.57	-3	47.88	+6	34.19	-6	22.50	+1
18	49.06	+6	27.38	-1	40.76	-2	48.15	+8	34.44	-6	22.49	+4
19	48.81	+6	27.49	-4	40.94	0	48.43	+10	34.70	-6	22.49	+7
20	48.56	+4	27.59	-7	41.13	+2	48.71	+9	34.96	-4	22.49	+9
21	48.31	+2	27.69	-9	41.30	+5	49.00	+7	35.22	-2	22.50	+10
22	48.06	-1	27.79	-10	41.48	+6	49.29	+3	35.47	+1	22.52	+9
23	47.80	-3	27.88	-8	41.65	+6	49.59	-1	35.73	+4	22.54	+6
24	47.54	-5	27.96	-5	41.82	+5	49.89	-5	35.99	+6	22.57	+2
25	47.28	-6	28.04	-1	41.98	+3	50.20	-7	36.25	+6	22.61	-3
26	47.02	-5	28.11	+4	42.14	0	50.51	-8	36.51	+5	22.65	-7
27	46.76	-3	28.17	+7	42.29	-4	50.82	-7	36.77	+3	22.70	-9
28	46.49	-1	28.23	+10	42.44	-6	51.14	-4	37.03	0	22.76	-9
29	46.23	+3	28.28	+10	42.58	-7	51.46	-1	37.29	-3	22.82	-8
30	45.96	+5	28.32	+8	42.72	-6	51.78	+2	37.55	-5	22.89	-5
31	45.70	+5	28.36	+5	42.86	-5	52.11	+5	37.81	-5	22.96	-2
32	45.43	+5	28.39	+1	42.99	-2	52.44	+5	38.07	-4	23.04	+1
sec δ, tg δ	85° 10' 20"	11.882	-11.840		85° 20' 40"	12.321	-12.280		84° 41' 20"	10.803	-10.757	
	30	11.889	-11.847		50	12.328	-12.287		30	10.809	-10.763	

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.
1920	14 <sup>h</sup> 47 <sup>m</sup>	in 0.01	-87° 49'	in 0.01	16 <sup>h</sup> 30 <sup>m</sup>	in 0.01	-86° 13'	in 0.01	18 <sup>h</sup> 8 <sup>m</sup>	in 0.01	-87° 39'	in 0.01
Nov. 28	36.66	+16	37.11	- 2	52.36	+10	21.35	+ 2	7.63	+ 6	49.88	+ 7
29	37.01	+14	36.85	- 6	52.42	+10	21.03	- 2	7.49	+13	49.56	+ 5
30	37.36	+ 9	36.58	- 9	52.49	+ 9	20.71	- 6	7.36	+17	49.25	+ 1
Dec. 1	37.73	+ 3	36.32	-10	52.57	+ 6	20.40	- 9	7.24	+17	48.93	- 3
2	38.10	- 3	36.06	- 9	52.65	+ 2	20.08	- 9	7.12	+14	48.61	- 6
3	38.49	- 8	35.81	- 6	52.74	- 2	19.77	- 8	7.02	+ 9	48.29	- 8
4	38.88	-10	35.56	- 3	52.84	- 4	19.46	- 5	6.93	+ 2	47.97	- 8
5	39.28	-10	35.31	+ 1	52.95	- 6	19.15	- 1	6.85	- 3	47.64	- 6
6	39.70	- 6	35.07	+ 4	53.06	- 5	18.83	+ 2	6.78	- 7	47.31	- 3
7	40.12	- 1	34.84	+ 5	53.18	- 3	18.52	+ 5	6.72	- 9	46.99	0
8	40.55	+ 4	34.60	+ 6	53.30	- 1	18.21	+ 6	6.67	- 8	46.66	+ 4
9	40.99	+ 8	34.38	+ 5	53.43	+ 2	17.91	+ 7	6.63	- 5	46.33	+ 6
10	41.43	+11	34.15	+ 4	53.57	+ 4	17.60	+ 6	6.61	- 1	46.00	+ 7
11	41.89	+12	33.93	+ 1	53.71	+ 6	17.30	+ 4	6.59	+ 3	45.67	+ 7
12	42.35	+11	33.72	- 1	53.86	+ 6	17.00	+ 2	6.58	+ 6	45.33	+ 6
13	42.82	+ 8	33.51	- 3	54.01	+ 6	16.70	- 1	6.59	+ 8	45.00	+ 4
14	43.30	+ 4	33.30	- 4	54.17	+ 4	16.40	- 3	6.61	+ 9	44.67	+ 1
15	43.79	- 1	33.10	- 5	54.34	+ 1	16.11	- 5	6.63	+ 8	44.33	- 2
16	44.28	- 7	32.90	- 4	54.51	- 2	15.82	- 6	6.67	+ 5	44.00	- 4
17	44.79	-13	32.71	- 3	54.69	- 6	15.53	- 6	6.72	+ 1	43.66	- 6
18	45.30	-16	32.53	0	54.87	- 9	15.24	- 4	6.78	- 5	43.33	- 7
19	45.81	-18	32.35	+ 3	55.06	-11	14.96	- 1	6.85	-11	43.00	- 7
20	46.33	-16	32.17	+ 6	55.26	-11	14.68	+ 2	6.93	-16	42.66	- 5
21	46.86	-10	32.00	+ 9	55.46	-10	14.40	+ 6	7.02	-18	42.33	- 2
22	47.40	- 3	31.84	+ 9	55.67	- 6	14.13	+ 8	7.12	-17	42.00	+ 2
23	47.94	+ 4	31.68	+ 8	55.88	- 1	13.86	+ 8	7.23 7.36	-13 - 7	41.66 41.33	+ 5 + 7
24	48.49	+11	31.52	+ 5	56.10	+ 4	13.59	+ 7	7.49	+ 1	40.99	+ 8
25	49.05	+15	31.37	+ 1	56.32	+ 8	13.33	+ 4	7.63	+ 9	40.66	+ 6
26	49.61	+15	31.22	- 4	56.55	+10	13.07	0	7.79	+15	40.33	+ 3
27	50.18	+11	31.09	- 8	56.79	+10	12.81	- 4	7.95	+17	40.00	- 1
28	50.75	+ 6	30.95	-10	57.03	+ 8	12.56	- 8	8.13	+16	39.67	- 5
29	51.33	- 1	30.83	-10	57.28	+ 4	12.31	- 9	8.31	+11	39.35	- 7
30	51.91	- 6	30.71	- 8	57.53	0	12.06	- 9	8.51	+ 6	39.02	- 8
31	52.50	- 9	30.59	- 5	57.79	- 3	11.82	- 6	8.71	0	38.70	- 7
32	53.09	-10	30.48	- 1	58.05	- 5	11.58	- 3	8.92	- 5	38.37	- 4
secd, tg δ	87° 49' 30"	26.349	-26.330		86° 13' 10"	15.166	-15.133		87° 39' 40"	24.504	-24.483	
	40	26.383	-26.364		20	15.178	-15.145		50	24.533	-24.513	



# 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.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.	AR.	α Gl.	Dekl.	α Gl.
1920	19 <sup>h</sup> 32 <sup>m</sup>	in 0.01	-89° 12'	in 0.01	22 <sup>h</sup> 37 <sup>m</sup>	in 0.01	-81° 47'	in 0.01	23 <sup>h</sup> 16 <sup>m</sup>	in 0.01	-87° 55'	in 0.01
Nov. 28	41.40	+ 4	63.94	+ 8	61.78	- 2	62.36	+ 6	42.93	-11	16.03	+ 6
29	40.43	+26	63.68	+ 7	61.64	+ 1	62.34	+ 9	42.33	- 4	16.05	+ 8
30	39.48	+42	63.41	+ 4	61.50	+ 3	62.31	+ 9	41.72	+ 4	16.06	+10
Dez. 1	38.56	+50	63.14	+ 1	61.35	+ 5	62.28	+ 8	41.12	+12	16.07	+ 9
2	37.66	+48	62.86	- 3	61.21	+ 5	62.24	+ 4	40.51	+16	16.07	+ 6
3	36.79	+36	62.58	- 6	61.07	+ 5	62.20	+ 1	39.91	+17	16.06	+ 2
4	35.94	+19	62.30	- 7	60.92	+ 3	62.15	- 2	39.30	+14	16.05	- 1
5	35.12	+ 1	62.01	- 6	60.78	+ 2	62.09	- 5	38.69	+ 9	16.04	- 4
6	34.33	-14	61.72	- 4	60.64	0	62.02	- 5	38.09	+ 2	16.02	- 5
7	33.56	-24	61.43	- 1	60.49	- 2	61.95	- 4	37.50	- 5	15.99	- 5
8	32.82	-27	61.13	+ 2	60.35	- 3	61.88	- 2	36.90	-10	15.95	- 3
9	32.11	-23	60.83	+ 4	60.21	- 3	61.79	0	36.30	-12	15.91	- 1
10	31.43	-15	60.52	+ 6	60.07	- 3	61.70	+ 2	35.70	-13	15.86	+ 1
11	30.78	- 4	60.21	+ 7	59.93	- 2	61.61	+ 4	35.10	-11	15.80	+ 3
12	30.15	+ 6	59.90	+ 6	59.80	- 1	61.51	+ 5	34.49	- 7	15.74	+ 5
13	29.56	+16	59.59	+ 5	59.66	0	61.40	+ 6	33.89	- 3	15.67	+ 5
14	28.99	+22	59.27	+ 3	59.52	+ 1	61.29	+ 5	33.29	+ 2	15.59	+ 5
15	28.45	+24	58.95	0	59.39	+ 2	61.17	+ 3	32.68	+ 6	15.51	+ 4
16	27.94	+21	58.63	- 3	59.26	+ 3	61.04	+ 1	32.09	+10	15.42	+ 1
17	27.46	+12	58.30	- 6	59.13	+ 3	60.91	- 3	31.50	+11	15.33	- 2
18	27.01	- 1	57.98	- 8	58.99	+ 2	60.78	- 6	30.91	+11	15.22	- 5
19	26.59	-17	57.65	- 9	58.86	+ 1	60.63	- 9	30.33	+ 8	15.12	- 8
20	26.20	-34	57.32	- 8	58.74	- 1	60.48	-10	29.75	+ 3	15.00	-10
21	25.84	-45	56.99	- 5	58.61	- 3	60.33	-10	29.17	- 4	14.88	-10
22	25.51	-50	56.65	- 1	58.48	- 4	60.17	- 8	28.59	-10	14.76	- 9
23	25.22	-44	56.31	+ 2	58.36	- 5	60.00	- 4	28.02	-14	14.63	- 5
24	24.95	-30	55.97	+ 6	58.23	- 4	59.83	0	27.45	-16	14.49	- 1
25	24.71	- 9	55.63	+ 8	58.11	- 3	59.65	+ 5	26.88	-13	14.35	+ 3
26	24.50	+14	55.28	+ 8	57.99	- 1	59.46	+ 8	26.32	- 7	14.20	+ 7
27	24.32	+34	54.94	+ 6	57.87	+ 2	59.27	+ 9	25.76	+ 1	14.04	+ 9
28	24.18	+47	54.59	+ 2	57.75	+ 4	59.08	+ 8	25.21	+ 9	13.88	+ 9
29	24.06	+50	54.25	- 1	57.64	+ 5	58.88	+ 6	24.67	+15	13.71	+ 7
30	23.97	+43	53.90	- 5	57.52	+ 5	58.67	+ 3	24.13	+17	13.54	+ 4
31	23.92	+28	53.56	- 7	57.41	+ 4	58.46	- 1	23.59	+16	13.36	+ 1
32	23.89	+10	53.21	- 7	57.30	+ 3	58.25	- 3	23.06	+11	13.17	- 2
sec δ, tg δ	89° 12' 50"	72.887	-72.881		81° 47' 60"	7.011	-6.940		87° 55' 10"	27.545	-27.527	
	60	73.146	-73.139		70	7.014	-6.942		20	27.582	-27.563	

## zur Reduktion auf den scheinbaren Ort

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

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

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

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

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

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

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

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

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

$$\begin{array}{l|l} a = m + \frac{1}{15} n \sin \alpha \operatorname{tg} \delta & a' = n \cos \alpha \\ b = \frac{1}{15} \cos \alpha \operatorname{tg} \delta & b' = -\sin \alpha \\ c = \frac{1}{15} \cos \alpha \sec \delta & c' = \operatorname{tg} \varepsilon \cos \delta - \sin \alpha \sin \delta \\ d = \frac{1}{15} \sin \alpha \sec \delta & d' = \cos \alpha \sin \delta \end{array}$$

$$\alpha_{\text{app.}} = \alpha_{1920.0} + t \mu_{\alpha} + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$

$$\delta_{\text{app.}} = \delta_{1920.0} + t \mu_{\delta} + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$$

$\mu_{\alpha}$ ,  $\mu_{\delta}$  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:

$$\alpha_{\text{app.}} = \alpha_{1920.0} + t \mu_{\alpha} + f + \frac{1}{15} g \sin (G + \alpha) \operatorname{tg} \delta + \frac{1}{15} h \sin (H + \alpha) \sec \delta \\ + [f' + \frac{1}{15} g' \sin (G' + \alpha) \operatorname{tg} \delta]$$

$$\delta_{\text{app.}} = \delta_{1920.0} + t \mu_{\delta} + g \cos (G + \alpha) + h \cos (H + \alpha) \sin \delta + i \cos \delta \\ + [g' \cos (G' + \alpha)]$$

# Reduktionsgrößen 1920

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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>
1920						
Jan. 0.7	-0.0012	9.45032	0.78810	0.49164 <sub>n</sub>	1.30512	+0.0022
10.7	+0.0261	9.49948	0.78625	0.80079 <sub>n</sub>	1.28502	21
20.7	0.0534	9.54108	0.78039	0.97035 <sub>n</sub>	1.24939	21
30.6	0.0807	9.57583	0.77181	1.08142 <sub>n</sub>	1.19559	21
Febr. 9.6	0.1080	9.60455	0.76208	1.15842 <sub>n</sub>	1.11850	21
19.6	0.1353	9.62828	0.75305	1.21187 <sub>n</sub>	1.00808	+0.0021
29.6	0.1626	9.64806	0.74648	1.24716 <sub>n</sub>	0.84136	20
März 10.5	0.1899	9.66506	0.74406	1.26724 <sub>n</sub>	0.54382	20
20.5	0.2172	9.68043	0.74640	1.27368 <sub>n</sub>	8.50515 <sub>n</sub>	20
30.5	0.2446	9.69524	0.75389	1.26708 <sub>n</sub>	0.54900 <sub>n</sub>	20
April 9.4	0.2719	9.71038	0.76567	1.24726 <sub>n</sub>	0.84048 <sub>n</sub>	+0.0020
19.4	0.2992	9.72650	0.78075	1.21322 <sub>n</sub>	1.00393 <sub>n</sub>	19
29.4	0.3265	9.74394	0.79734	1.16268 <sub>n</sub>	1.11227 <sub>n</sub>	19
Mai 9.4	0.3538	9.76277	0.81418	1.09149 <sub>n</sub>	1.18822 <sub>n</sub>	19
19.3	0.3811	9.78275	0.82969	0.99158 <sub>n</sub>	1.24192 <sub>n</sub>	19
29.3	0.4084	9.80351	0.84292	0.84553 <sub>n</sub>	1.27857 <sub>n</sub>	+0.0019
Juni 8.3	0.4357	9.82451	0.85309	0.60423 <sub>n</sub>	1.30094 <sub>n</sub>	18
18.3	0.4630	9.84521	0.85962	9.96755 <sub>n</sub>	1.31058 <sub>n</sub>	18
28.2	0.4903	9.86511	0.86255	0.33925	1.30818 <sub>n</sub>	18
Juli 8.2	0.5176	9.88376	0.86195	0.71892	1.29356 <sub>n</sub>	18
18.2	0.5449	9.90086	0.85836	0.91078	1.26590 <sub>n</sub>	+0.0018
28.1	0.5722	9.91620	0.85230	1.03467	1.22332 <sub>n</sub>	17
Aug. 7.1	0.5995	9.92972	0.84491	1.12139	1.16233 <sub>n</sub>	17
17.1	0.6268	9.94145	0.83708	1.18349	1.07671 <sub>n</sub>	17
27.1	0.6541	9.95160	0.83040	1.22719	0.95361 <sub>n</sub>	17
Sept. 6.0	0.6814	9.96045	0.82582	1.25565	0.76155 <sub>n</sub>	+0.0017
16.0	0.7087	9.96838	0.82445	1.27073	0.37694 <sub>n</sub>	16
26.0	0.7360	9.97585	0.82718	1.27305	0.04060	16
Okt. 6.0	0.7633	9.98331	0.83385	1.26259	0.65954	16
15.9	0.7906	9.99123	0.84417	1.23847	0.89862	16
25.9	0.8179	9.99993	0.85703	1.19882	1.04348	+0.0016
Nov. 4.9	0.8452	0.00966	0.87128	1.14019	1.14214	15
14.8	0.8725	0.02048	0.88547	1.05625	1.21168	15
24.8	0.8998	0.03228	0.89823	0.93425	1.26007	15
Dez. 4.8	0.9272	0.04479	0.90849	0.74288	1.29141	15
14.8	0.9545	0.05767	0.91545	0.35908	1.30788	+0.0015
24.7	0.9818	0.07047	0.91876	0.01536 <sub>n</sub>	1.31046	14
34.7	1.0091	0.08278	0.91834	0.63629 <sub>n</sub>	1.29927	14

Mittl. Zeit Greenwich	$t$	$f$	$\log g$	$G$	$\log h$	$H$	$\log i$	$i$	
1920									
Jan.	0.5	-0.0018	+0.866	0.9210	3 <sup>h</sup> 9.8 <sup>m</sup>	1.3102	23 <sup>h</sup> 25.9 <sup>m</sup>	0.1186 <sub>n</sub>	-1.314
	1.5	+0.0009	0.877	0.9234	3 8.4	1.3100	23 22.1	0.1635 <sub>n</sub>	1.457
	2.5	0.0037	0.888	0.9258	3 7.0	1.3098	23 18.4	0.2038 <sub>n</sub>	1.599
	3.5	0.0064	0.898	0.9282	3 5.6	1.3095	23 14.6	0.2405 <sub>n</sub>	1.740
	4.5	0.0092	0.909	0.9305	3 4.3	1.3093	23 10.8	0.2744 <sub>n</sub>	1.881
	5.5	0.0119	0.919	0.9329	3 2.9	1.3090	23 7.1	0.3058 <sub>n</sub>	2.022
	6.5	0.0146	+0.930	0.9352	3 1.6	1.3087	23 3.3	0.3349 <sub>n</sub>	-2.162
	7.5	0.0174	0.940	0.9375	3 0.2	1.3083	22 59.5	0.3621 <sub>n</sub>	2.302
	8.5	0.0201	0.950	0.9397	2 58.9	1.3080	22 55.7	0.3874 <sub>n</sub>	2.440
	9.5	0.0228	0.961	0.9420	2 57.6	1.3077	22 51.9	0.4113 <sub>n</sub>	2.578
	10.5	0.0256	0.971	0.9441	2 56.3	1.3073	22 48.1	0.4338 <sub>n</sub>	2.715
	11.5	0.0283	0.981	0.9463	2 55.0	1.3069	22 44.3	0.4550 <sub>n</sub>	2.851
	12.5	0.0311	+0.991	0.9483	2 53.7	1.3064	22 40.5	0.4751 <sub>n</sub>	-2.986
	13.5	0.0338	1.001	0.9504	2 52.4	1.3060	22 36.7	0.4943 <sub>n</sub>	3.121
	14.5	0.0365	1.011	0.9524	2 51.1	1.3056	22 32.8	0.5124 <sub>n</sub>	3.254
	15.5	0.0393	1.021	0.9544	2 49.9	1.3051	22 29.0	0.5297 <sub>n</sub>	3.386
	16.5	0.0420	1.031	0.9565	2 48.6	1.3046	22 25.2	0.5463 <sub>n</sub>	3.518
	17.5	0.0447	1.040	0.9584	2 47.4	1.3041	22 21.3	0.5619 <sub>n</sub>	3.647
	18.5	0.0475	+1.050	0.9604	2 46.1	1.3036	22 17.4	0.5770 <sub>n</sub>	-3.776
	19.5	0.0502	1.059	0.9623	2 44.9	1.3031	22 13.6	0.5915 <sub>n</sub>	3.904
	20.5	0.0530	1.069	0.9642	2 43.7	1.3025	22 9.7	0.6053 <sub>n</sub>	4.030
	21.5	0.0557	1.078	0.9660	2 42.5	1.3020	22 5.8	0.6187 <sub>n</sub>	4.156
	22.5	0.0584	1.087	0.9678	2 41.4	1.3014	22 1.9	0.6313 <sub>n</sub>	4.279
	23.5	0.0612	1.096	0.9696	2 40.2	1.3008	21 58.0	0.6437 <sub>n</sub>	4.402
	24.5	0.0639	+1.106	0.9714	2 39.1	1.3002	21 54.1	0.6553 <sub>n</sub>	-4.522
	25.5	0.0666	1.115	0.9732	2 37.9	1.2996	21 50.1	0.6667 <sub>n</sub>	4.642
	26.5	0.0694	1.124	0.9749	2 36.8	1.2990	21 46.2	0.6776 <sub>n</sub>	4.760
	27.5	0.0721	1.132	0.9766	2 35.7	1.2984	21 42.2	0.6881 <sub>n</sub>	4.876
	28.5	0.0749	1.141	0.9782	2 34.6	1.2978	21 38.3	0.6982 <sub>n</sub>	4.991
	29.5	0.0776	1.150	0.9799	2 33.5	1.2972	21 34.3	0.7079 <sub>n</sub>	5.104
	30.5	0.0803	+1.158	0.9815	2 32.4	1.2965	21 30.3	0.7173 <sub>n</sub>	-5.216
	31.5	0.0831	1.167	0.9831	2 31.4	1.2959	21 26.3	0.7264 <sub>n</sub>	5.326
Febr.	1.5	0.0858	1.175	0.9847	2 30.4	1.2952	21 22.3	0.7352 <sub>n</sub>	5.435
	2.5	0.0886	1.183	0.9862	2 29.4	1.2946	21 18.3	0.7436 <sub>n</sub>	5.541
	3.5	0.0913	1.191	0.9877	2 28.4	1.2939	21 14.3	0.7517 <sub>n</sub>	5.646
	4.5	0.0940	1.199	0.9892	2 27.4	1.2933	21 10.3	0.7596 <sub>n</sub>	5.749
	5.5	0.0968	+1.207	0.9907	2 26.4	1.2926	21 6.2	0.7672 <sub>n</sub>	-5.852
	6.5	0.0995	1.215	0.9922	2 25.4	1.2919	21 2.2	0.7745 <sub>n</sub>	5.955
	7.5	0.1022	1.222	0.9937	2 24.5	1.2913	20 58.1	0.7815 <sub>n</sub>	6.058
	8.5	0.1050	1.230	0.9951	2 23.6	1.2906	20 54.0	0.7884 <sub>n</sub>	6.161
	9.5	0.1077	1.238	0.9965	2 22.7	1.2900	20 49.9	0.7950 <sub>n</sub>	6.264
	10.5	0.1105	1.245	0.9979	2 21.8	1.2893	20 45.8	0.8013 <sub>n</sub>	6.367

Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1920,0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1920	in 0.001	in 0.01				in 0.01	23° 26'		in 0.01
Jan. 0.5	-15	+10	12.6 <sup>h</sup>	-0.09	+14.26	-24	52.77	-6.14	+2
1.5	-14	10	10.9	+0.05	14.30	-23	52.72	6.14	-3
2.5	-10	9	9.1	0.18	14.33	-17	52.69	6.14	-6
3.5	-4	9	7.2	0.32	14.37	-7	52.67	6.14	-8
4.5	+3	9	5.1	0.46	14.40	+5	52.67	6.14	-8
5.5	+10	9	3.0	0.60	14.43	+16	52.69	6.13	-6
6.5	+14	+10	1.2	+0.74	+14.47	+23	52.72	-6.13	-3
7.5	+16	10	23.6	0.87	14.50	+26	52.77	6.13	+1
8.5	+14	11	22.1	1.01	14.53	+24	52.81	6.12	+5
9.5	+10	10	20.8	1.15	14.56	+17	52.84	6.12	+7
10.5	+5	9	19.4	1.29	14.58	+8	52.85	6.11	+8
11.5	0	7	18.0	1.42	14.61	0	52.84	6.11	+7
12.5	-4	+6	16.0	+1.56	+14.64	-7	52.82	-6.10	+5
13.5	-7	5	13.5	1.70	14.67	-12	52.80	6.09	+2
14.5	-8	5	11.1	1.84	14.69	-13	52.77	6.09	-1
15.5	-7	6	9.3	1.97	14.72	-12	52.75	6.08	-4
16.5	-5	7	7.9	2.11	14.74	-8	52.74	6.07	-6
17.5	-2	7	6.7	2.25	14.76	-4	52.74	6.06	-7
18.5	+1	+7	5.6	+2.39	+14.78	+2	52.75	-6.05	-7
19.5	+4	6	4.2	2.52	14.80	+7	52.77	6.04	-6
20.5	+7	5	2.5	2.66	14.81	+11	52.80	6.03	-3
21.5	+8	5	0.3	2.80	14.83	+13	52.84	6.02	0
22.5	+7	5	21.7	2.94	14.84	+11	52.88	6.01	+3
23.5	+4	6	19.6	3.07	14.86	+6	52.92	6.00	+6
24.5	-1	+8	17.8	+3.21	+14.87	-1	52.95	-5.99	+7
25.5	-6	9	16.2	3.35	14.88	-10	52.96	5.98	+8
26.5	-11	9	14.7	3.49	14.88	-18	52.95	5.96	+6
27.5	-14	10	13.1	3.63	14.89	-23	52.93	5.95	+3
28.5	-14	10	11.5	3.76	14.89	-23	52.90	5.94	-1
29.5	-12	9	9.7	3.90	14.90	-19	52.88	5.93	-5
30.5	-7	+9	7.9	+4.04	+14.90	-11	52.86	-5.91	-8
31.5	0	9	5.9	4.18	14.90	0	52.87	5.90	-9
Febr. 1.5	+7	9	3.8	4.31	14.90	+11	52.89	5.89	-7
2.5	+12	9	1.8	4.45	14.89	+20	52.93	5.87	-4
3.5	+14	9	0.0	4.59	14.89	+24	52.99	5.86	0
4.5	+13	10	22.4	4.73	14.88	+23	53.04	5.85	+4
5.5	+11	+10	21.0	+4.86	+14.87	+18	53.08	-5.84	+7
6.5	+6	9	19.8	5.00	14.86	+10	53.10	5.82	+8
7.5	+1	8	18.3	5.14	14.85	+2	53.11	5.81	+8
8.5	-4	6	16.5	5.28	14.84	-6	53.11	5.80	+6
9.5	-7	5	14.2	5.41	14.82	-11	53.09	5.78	+3
10.5	-8	5	11.9	5.55	14.81	-13	53.07	5.77	0

Mittl. Zeit Greenwich	$t$	$f$	$\log g$	$G$	$\log h$	$H$	$\log i$
1920							
Febr. 10.5	0.1105	+1.245	0.9979	2 21.8	1.2893	20 45.8	0.8013 <sub>n</sub>
11.5	0.1132	1.252	0.9992	2 20.9	1.2886	20 41.7	0.8073 <sub>n</sub>
12.5	0.1159	1.259	1.0005	2 20.0	1.2880	20 37.6	0.8132 <sub>n</sub>
13.5	0.1187	1.267	1.0019	2 19.2	1.2873	20 33.5	0.8189 <sub>n</sub>
14.5	0.1214	1.274	1.0032	2 18.4	1.2867	20 29.3	0.8244 <sub>n</sub>
15.5	0.1241	1.281	1.0045	2 17.6	1.2861	20 25.2	0.8296 <sub>n</sub>
16.5	0.1269	+1.287	1.0058	2 16.8	1.2854	20 21.0	0.8347 <sub>n</sub>
17.5	0.1296	1.294	1.0071	2 16.0	1.2848	20 16.8	0.8395 <sub>n</sub>
18.5	0.1324	1.301	1.0084	2 15.3	1.2842	20 12.7	0.8442 <sub>n</sub>
19.5	0.1351	1.307	1.0097	2 14.5	1.2836	20 8.5	0.8487 <sub>n</sub>
20.5	0.1378	1.314	1.0109	2 13.8	1.2830	20 4.3	0.8530 <sub>n</sub>
21.5	0.1406	1.320	1.0122	2 13.1	1.2824	20 0.0	0.8572 <sub>n</sub>
22.5	0.1433	+1.326	1.0134	2 12.5	1.2819	19 55.8	0.8611 <sub>n</sub>
23.5	0.1460	1.333	1.0146	2 11.8	1.2813	19 51.6	0.8649 <sub>n</sub>
24.5	0.1488	1.339	1.0158	2 11.1	1.2808	19 47.4	0.8686 <sub>n</sub>
25.5	0.1515	1.345	1.0170	2 10.5	1.2803	19 43.1	0.8720 <sub>n</sub>
26.5	0.1543	1.351	1.0182	2 9.9	1.2798	19 38.9	0.8753 <sub>n</sub>
27.5	0.1570	1.357	1.0193	2 9.3	1.2793	19 34.6	0.8784 <sub>n</sub>
28.5	0.1597	+1.363	1.0205	2 8.7	1.2788	19 30.3	0.8814 <sub>n</sub>
29.5	0.1625	1.368	1.0217	2 8.2	1.2783	19 26.0	0.8842 <sub>n</sub>
März 1.5	0.1652	1.374	1.0229	2 7.6	1.2779	19 21.8	0.8869 <sub>n</sub>
2.5	0.1680	1.380	1.0241	2 7.1	1.2775	19 17.5	0.8895 <sub>n</sub>
3.5	0.1707	1.385	1.0253	2 6.6	1.2771	19 13.2	0.8918 <sub>n</sub>
4.5	0.1734	1.391	1.0264	2 6.1	1.2767	19 8.9	0.8940 <sub>n</sub>
5.5	0.1762	+1.396	1.0276	2 5.7	1.2763	19 4.6	0.8961 <sub>n</sub>
6.5	0.1789	1.402	1.0288	2 5.2	1.2760	19 0.2	0.8981 <sub>n</sub>
7.5	0.1816	1.407	1.0299	2 4.8	1.2757	18 55.9	0.8999 <sub>n</sub>
8.5	0.1844	1.413	1.0311	2 4.4	1.2754	18 51.6	0.9015 <sub>n</sub>
9.5	0.1871	1.418	1.0322	2 4.0	1.2751	18 47.3	0.9030 <sub>n</sub>
10.5	0.1899	1.423	1.0334	2 3.6	1.2749	18 42.9	0.9044 <sub>n</sub>
11.5	0.1926	+1.428	1.0346	2 3.2	1.2746	18 38.6	0.9057 <sub>n</sub>
12.5	0.1953	1.433	1.0358	2 2.8	1.2744	18 34.3	0.9068 <sub>n</sub>
13.5	0.1981	1.439	1.0370	2 2.5	1.2743	18 30.0	0.9078 <sub>n</sub>
14.5	0.2008	1.444	1.0382	2 2.2	1.2741	18 25.6	0.9086 <sub>n</sub>
15.5	0.2035	1.449	1.0394	2 1.9	1.2740	18 21.3	0.9093 <sub>n</sub>
16.5	0.2063	1.454	1.0406	2 1.6	1.2739	18 17.0	0.9099 <sub>n</sub>
17.5	0.2090	+1.459	1.0418	2 1.3	1.2738	18 12.6	0.9104 <sub>n</sub>
18.5	0.2118	1.464	1.0430	2 1.0	1.2737	18 8.3	0.9107 <sub>n</sub>
19.5	0.2145	1.469	1.0442	2 0.8	1.2737	18 4.0	0.9109 <sub>n</sub>
20.5	0.2172	1.474	1.0455	2 0.5	1.2737	17 59.6	0.9109 <sub>n</sub>
21.5	0.2200	1.480	1.0468	2 0.3	1.2737	17 55.3	0.9108 <sub>n</sub>
22.5	0.2227	1.485	1.0481	2 0.1	1.2737	17 51.0	0.9106 <sub>n</sub>

Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1920,0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1920	in <sup>a</sup> 0.001	in <sup>a</sup> 0.01				in 0.01	23° 26'		in <sup>a</sup> 0.01
Febr. 10.5	— 8	+ 5	11.9 <sup>h</sup>	+ 5.55	+14.81	—13	53.07	—5.77	0
11.5	— 8	6	9.8	5.69	14.79	—12	53.05	5.76	—3
12.5	— 6	7	8.3	5.83	14.77	—10	53.04	5.74	—6
13.5	— 3	7	7.1	5.96	14.75	— 5	53.03	5.73	—7
14.5	0	7	5.9	6.10	14.72	0	53.04	5.72	—7
15.5	+ 4	7	4.6	6.24	14.70	+ 6	53.06	5.71	—6
16.5	+ 6	+ 6	3.0	+ 6.38	+14.67	+10	53.09	—5.70	—4
17.5	+ 8	5	1.0	6.51	14.65	+12	53.13	5.69	—1
18.5	+ 7	5	22.5	6.65	14.62	+12	53.17	5.67	+ 2
19.5	+ 5	6	20.3	6.79	14.59	+ 9	53.21	5.66	+ 5
20.5	+ 1	7	18.5	6.93	14.55	+ 2	53.24	5.65	+ 7
21.5	— 4	8	16.9	7.07	14.52	— 6	53.26	5.64	+ 8
22.5	— 8	+ 9	15.4	+ 7.20	+14.49	—14	53.26	—5.63	+ 7
23.5	—12	9	13.8	7.34	14.45	—20	53.24	5.62	+ 4
24.5	—13	9	12.1	7.48	14.41	—22	53.21	5.62	0
25.5	—12	9	10.3	7.62	14.37	—20	53.18	5.61	—4
26.5	— 8	9	8.4	7.75	14.33	—13	53.15	5.60	—7
27.5	— 2	9	6.5	7.89	14.29	— 3	53.14	5.59	—8
28.5	+ 5	+ 8	4.5	+ 8.03	+14.25	+ 8	53.15	—5.58	—8
29.5	+10	9	2.5	8.17	14.21	+17	53.18	5.58	—5
März 1.5	+13	9	0.6	8.30	14.16	+22	53.23	5.57	—1
2.5	+14	9	22.9	8.44	14.12	+23	53.27	5.57	+ 3
3.5	+12	10	21.4	8.58	14.07	+19	53.31	5.56	+ 6
4.5	+ 7	9	20.1	8.72	14.02	+12	53.33	5.56	+ 8
5.5	+ 2	+ 8	18.6	+ 8.85	+13.98	+ 3	53.33	—5.55	+ 8
6.5	— 3	7	17.0	8.99	13.93	— 5	53.32	5.55	+ 7
7.5	— 6	6	14.8	9.13	13.88	—11	53.30	5.55	+ 4
8.5	— 8	5	12.5	9.27	13.83	—13	53.27	5.55	+ 1
9.5	— 8	6	10.3	9.40	13.78	—13	53.23	5.55	—3
10.5	— 7	7	8.7	9.54	13.73	—11	53.20	5.55	—5
11.5	— 4	+ 7	7.4	+ 9.68	+13.67	— 7	53.19	—5.55	—7
12.5	— 1	7	6.3	9.82	13.62	— 1	53.18	5.55	—7
13.5	+ 2	7	5.1	9.96	13.57	+ 4	53.18	5.55	—6
14.5	+ 5	6	3.7	10.09	13.52	+ 8	53.20	5.55	—5
15.5	+ 7	5	1.8	10.23	13.46	+11	53.22	5.55	—2
16.5	+ 7	5	23.2	10.37	13.41	+12	53.25	5.56	+ 1
17.5	+ 6	+ 6	20.9	+10.51	+13.35	+10	53.27	—5.56	+ 4
18.5	+ 3	7	19.0	10.64	13.30	+ 4	53.29	5.56	+ 6
19.5	— 2	8	17.4	10.78	13.25	— 3	53.30	5.57	+ 8
20.5	— 7	9	16.0	10.92	13.19	—11	53.29	5.58	+ 7
21.5	—11	9	14.4	11.06	13.14	—17	53.26	5.58	+ 5
22.5	—13	9	12.8	11.19	13.08	—21	53.21	5.59	+ 2

Mittl. Zeit Greenwich	$t$	$f$	$\log g$	$G$	$\log h$	$H$	$\log i$
1920							
März 22.5	0.2227	+1.485	1.0481	2 <sup>h</sup> 0.1 <sup>m</sup>	1.2737	17 51.0	0.9106 <sub>n</sub>
23.5	0.2254	1.490	1.0493	I 59.9	1.2738	17 46.7	0.9103 <sub>n</sub>
24.5	0.2282	1.495	1.0506	I 59.7	1.2739	17 42.3	0.9098 <sub>n</sub>
25.5	0.2309	1.500	1.0519	I 59.6	1.2740	17 38.0	0.9092 <sub>n</sub>
26.5	0.2337	1.505	1.0532	I 59.4	1.2741	17 33.7	0.9085 <sub>n</sub>
27.5	0.2364	1.510	1.0545	I 59.3	1.2743	17 29.4	0.9076 <sub>n</sub>
28.5	0.2391	+1.515	1.0559	I 59.1	1.2745	17 25.1	0.9067 <sub>n</sub>
29.5	0.2419	1.520	1.0572	I 59.0	1.2747	17 20.8	0.9055 <sub>n</sub>
30.5	0.2446	1.526	1.0585	I 58.9	1.2749	17 16.5	0.9043 <sub>n</sub>
31.5	0.2474	1.531	1.0599	I 58.8	1.2751	17 12.3	0.9029 <sub>n</sub>
April 1.5	0.2501	1.536	1.0613	I 58.7	1.2754	17 8.0	0.9014 <sub>n</sub>
2.5	0.2528	1.541	1.0627	I 58.6	1.2757	17 3.7	0.8997 <sub>n</sub>
3.5	0.2556	+1.547	1.0641	I 58.5	1.2760	16 59.5	0.8980 <sub>n</sub>
4.5	0.2583	1.552	1.0656	I 58.4	1.2764	16 55.3	0.8960 <sub>n</sub>
5.5	0.2610	1.557	1.0670	I 58.3	1.2767	16 51.0	0.8940 <sub>n</sub>
6.5	0.2638	1.563	1.0685	I 58.3	1.2771	16 46.8	0.8918 <sub>n</sub>
7.5	0.2665	1.568	1.0700	I 58.2	1.2775	16 42.6	0.8894 <sub>n</sub>
8.5	0.2693	1.574	1.0714	I 58.2	1.2779	16 38.4	0.8870 <sub>n</sub>
9.5	0.2720	+1.580	1.0729	I 58.1	1.2783	16 34.2	0.8844 <sub>n</sub>
10.5	0.2747	1.585	1.0744	I 58.1	1.2788	16 30.0	0.8816 <sub>n</sub>
11.5	0.2775	1.591	1.0759	I 58.0	1.2792	16 25.8	0.8787 <sub>n</sub>
12.5	0.2802	1.597	1.0775	I 58.0	1.2797	16 21.7	0.8756 <sub>n</sub>
13.5	0.2829	1.603	1.0791	I 58.0	1.2802	16 17.5	0.8725 <sub>n</sub>
14.5	0.2857	1.609	1.0807	I 57.9	1.2807	16 13.4	0.8692 <sub>n</sub>
15.5	0.2884	+1.615	1.0823	I 57.9	1.2812	16 9.3	0.8656 <sub>n</sub>
16.5	0.2912	1.621	1.0839	I 57.9	1.2818	16 5.1	0.8620 <sub>n</sub>
17.5	0.2939	1.627	1.0855	I 57.9	1.2823	16 1.0	0.8582 <sub>n</sub>
18.5	0.2966	1.633	1.0872	I 57.9	1.2829	15 57.0	0.8542 <sub>n</sub>
19.5	0.2994	1.640	1.0888	I 57.9	1.2834	15 52.9	0.8501 <sub>n</sub>
20.5	0.3021	1.646	1.0905	I 57.9	1.2840	15 48.8	0.8458 <sub>n</sub>
21.5	0.3048	+1.652	1.0922	I 57.9	1.2846	15 44.8	0.8414 <sub>n</sub>
22.5	0.3076	1.659	1.0939	I 57.8	1.2852	15 40.7	0.8368 <sub>n</sub>
23.5	0.3103	1.666	1.0956	I 57.8	1.2858	15 36.7	0.8320 <sub>n</sub>
24.5	0.3131	1.672	1.0973	I 57.8	1.2864	15 32.7	0.8270 <sub>n</sub>
25.5	0.3158	1.679	1.0990	I 57.8	1.2870	15 28.7	0.8218 <sub>n</sub>
26.5	0.3185	1.686	1.1008	I 57.8	1.2876	15 24.7	0.8165 <sub>n</sub>
27.5	0.3213	+1.693	1.1026	I 57.7	1.2883	15 20.8	0.8110 <sub>n</sub>
28.5	0.3240	1.700	1.1043	I 57.7	1.2889	15 16.8	0.8052 <sub>n</sub>
29.5	0.3267	1.707	1.1061	I 57.7	1.2895	15 12.9	0.7993 <sub>n</sub>
30.5	0.3295	1.714	1.1079	I 57.7	1.2902	15 8.9	0.7932 <sub>n</sub>
Mai 1.5	0.3322	1.721	1.1097	I 57.7	1.2908	15 5.0	0.7868 <sub>n</sub>
2.5	0.3350	1.729	1.1116	I 57.6	1.2914	15 1.1	0.7802 <sub>n</sub>



# Reduktionsgrößen 1920

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Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1920.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1920	in $0.001$	in $0.01$				in $0.01$	$23^\circ 26'$		in $0.01$
März 22.5	-13	+ 9	12.8 <sup>h</sup>	+11.19	+13.08	-21	53.21	-5.59	+ 2
23.5	-12	8	10.9	11.33	13.03	-20	53.16	5.60	- 2
24.5	- 9	8	8.9	11.47	12.97	-14	53.12	5.61	- 6
25.5	- 3	8	6.9	11.61	12.92	- 5	53.09	5.62	- 8
26.5	+ 4	9	5.0	11.74	12.86	+ 6	53.07	5.63	- 8
27.5	+10	9	3.0	11.88	12.81	+16	53.08	5.64	- 6
28.5	+13	+ 9	1.2	+12.02	+12.76	+22	53.10	-5.65	- 3
29.5	+15	10	23.5	12.16	12.70	+24	53.13	5.66	+ 1
30.5	+13	10	21.9	12.29	12.65	+21	53.16	5.67	+ 5
31.5	+ 9	9	20.5	12.43	12.60	+14	53.16	5.69	+ 7
April 1.5	+ 4	9	19.0	12.57	12.55	+ 6	53.16	5.70	+ 8
2.5	- 2	7	17.4	12.71	12.50	- 3	53.13	5.71	+ 7
3.5	- 5	+ 6	15.4	+12.84	+12.45	- 9	53.09	-5.73	+ 5
4.5	- 8	6	13.2	12.98	12.40	-13	53.04	5.74	+ 2
5.5	- 9	6	11.0	13.12	12.35	-14	52.99	5.76	- 1
6.5	- 7	7	9.2	13.26	12.30	-12	52.95	5.78	- 4
7.5	- 5	7	7.9	13.40	12.25	- 8	52.91	5.79	- 6
8.5	- 2	7	6.7	13.53	12.21	- 3	52.88	5.81	- 7
9.5	+ 1	+ 7	5.6	+13.67	+12.16	+ 2	52.87	-5.83	- 7
10.5	+ 4	6	4.3	13.81	12.12	+ 7	52.86	5.85	- 5
11.5	+ 6	5	2.6	13.95	12.07	+10	52.86	5.87	- 3
12.5	+ 7	4	0.2	14.08	12.03	+11	52.87	5.89	0
13.5	+ 5	5	21.4	14.22	11.99	+ 9	52.88	5.91	+ 3
14.5	+ 3	6	19.3	14.36	11.95	+ 5	52.89	5.93	+ 6
15.5	- 1	+ 8	17.6	+14.50	+11.91	- 2	52.88	-5.95	+ 7
16.5	- 6	9	16.2	14.63	11.87	-10	52.86	5.97	+ 8
17.5	-10	9	14.8	14.77	11.83	-17	52.82	5.99	+ 6
18.5	-13	9	13.3	14.91	11.80	-21	52.77	6.01	+ 3
19.5	-13	9	11.6	15.05	11.76	-21	52.71	6.04	- 1
20.5	-10	8	9.6	15.18	11.73	-17	52.64	6.06	- 5
21.5	- 5	+ 8	7.5	+15.32	+11.70	- 8	52.59	-6.08	- 7
22.5	+ 2	8	5.4	15.46	11.67	+ 3	52.56	6.10	- 8
23.5	+ 9	9	3.5	15.60	11.64	+14	52.55	6.13	- 7
24.5	+13	10	1.7	15.73	11.61	+22	52.55	6.15	- 4
25.5	+15	10	0.1	15.87	11.58	+25	52.56	6.17	0
26.5	+15	10	22.5	16.01	11.56	+24	52.58	6.20	+ 4
27.5	+11	+10	21.1	+16.15	+11.53	+18	52.59	-6.22	+ 7
28.5	+ 6	9	19.7	16.29	11.51	+10	52.57	6.25	+ 8
29.5	+ 1	8	18.2	16.42	11.49	+ 1	52.54	6.27	+ 8
30.5	- 4	6	16.3	16.56	11.47	- 7	52.50	6.30	+ 6
Mai 1.5	- 7	6	14.0	16.70	11.45	-12	52.44	6.32	+ 3
2.5	- 9	6	11.5	16.84	11.43	-14	52.38	6.35	- 1

Mittl. Zeit Greenwich	$t$	$t$	$\log g$	$G$	$\log h$	$H$	$\log i$	$i$	
1920									
Mai	2.5	0.3350	+1.729 <sup>s</sup>	I.1116	I 57.6 <sup>h m</sup>	I.2914	15 1.1 <sup>h m</sup>	0.7802 <sub>n</sub>	
	3.5	0.3377	I.736	I.1134	I 57.6	I.2920	14 57.3	0.7734 <sub>n</sub>	
	4.5	0.3404	I.744	I.1153	I 57.5	I.2927	14 53.4	0.7664 <sub>n</sub>	
	5.5	0.3432	I.751	I.1171	I 57.5	I.2933	14 49.5	0.7592 <sub>n</sub>	
	6.5	0.3459	I.759	I.1189	I 57.4	I.2939	14 45.6	0.7517 <sub>n</sub>	
	7.5	0.3487	I.767	I.1208	I 57.4	I.2946	14 41.8	0.7439 <sub>n</sub>	
	8.5	0.3514	+1.775	I.1227	I 57.3	I.2952	14 38.0	0.7358 <sub>n</sub>	-5.443
	9.5	0.3541	I.783	I.1245	I 57.2	I.2958	14 34.2	0.7275 <sub>n</sub>	5.340
	10.5	0.3569	I.791	I.1264	I 57.2	I.2964	14 30.4	0.7190 <sub>n</sub>	5.236
	11.5	0.3596	I.799	I.1283	I 57.1	I.2970	14 26.6	0.7101 <sub>n</sub>	5.130
	12.5	0.3623	I.807	I.1302	I 57.0	I.2976	14 22.8	0.7010 <sub>n</sub>	5.023
	13.5	0.3651	I.815	I.1321	I 56.9	I.2982	14 19.1	0.6915 <sub>n</sub>	4.915
	14.5	0.3678	+1.824	I.1340	I 56.8	I.2988	14 15.3	0.6817 <sub>n</sub>	-4.805
	15.5	0.3706	I.832	I.1359	I 56.7	I.2994	14 11.6	0.6715 <sub>n</sub>	4.694
	16.5	0.3733	I.841	I.1378	I 56.6	I.3000	14 7.8	0.6610 <sub>n</sub>	4.581
	17.5	0.3760	I.849	I.1397	I 56.5	I.3005	14 4.1	0.6500 <sub>n</sub>	4.467
	18.5	0.3788	I.858	I.1416	I 56.4	I.3011	14 0.4	0.6387 <sub>n</sub>	4.352
	19.5	0.3815	I.867	I.1435	I 56.2	I.3016	13 56.7	0.6270 <sub>n</sub>	4.236
	20.5	0.3842	+1.876	I.1454	I 56.1	I.3021	13 53.0	0.6147 <sub>n</sub>	-4.118
	21.5	0.3870	I.885	I.1473	I 56.0	I.3027	13 49.4	0.6020 <sub>n</sub>	3.999
	22.5	0.3897	I.894	I.1492	I 55.8	I.3032	13 45.7	0.5888 <sub>n</sub>	3.880
	23.5	0.3925	I.903	I.1512	I 55.6	I.3037	13 42.1	0.5751 <sub>n</sub>	3.759
	24.5	0.3952	I.912	I.1531	I 55.5	I.3041	13 38.4	0.5609 <sub>n</sub>	3.638
	25.5	0.3979	I.921	I.1550	I 55.3	I.3046	13 34.8	0.5459 <sub>n</sub>	3.515
	26.5	0.4007	+1.930	I.1569	I 55.1	I.3051	13 31.1	0.5303 <sub>n</sub>	-3.391
	27.5	0.4034	I.940	I.1588	I 54.9	I.3055	13 27.5	0.5141 <sub>n</sub>	3.267
	28.5	0.4061	I.949	I.1607	I 54.7	I.3059	13 23.9	0.4972 <sub>n</sub>	3.142
	29.5	0.4089	I.958	I.1626	I 54.5	I.3063	13 20.3	0.4793 <sub>n</sub>	3.015
	30.5	0.4116	I.968	I.1645	I 54.3	I.3067	13 16.7	0.4606 <sub>n</sub>	2.888
	31.5	0.4144	I.977	I.1663	I 54.1	I.3071	13 13.1	0.4411 <sub>n</sub>	2.761
Juni	1.5	0.4171	+1.987	I.1682	I 53.9	I.3075	13 9.6	0.4203 <sub>n</sub>	-2.632
	2.5	0.4198	I.997	I.1701	I 53.7	I.3078	13 6.0	0.3983 <sub>n</sub>	2.502
	3.5	0.4226	2.006	I.1719	I 53.4	I.3082	13 2.4	0.3753 <sub>n</sub>	2.373
	4.5	0.4253	2.016	I.1738	I 53.2	I.3085	12 58.9	0.3508 <sub>n</sub>	2.243
	5.5	0.4281	2.026	I.1756	I 52.9	I.3088	12 55.3	0.3247 <sub>n</sub>	2.112
	6.5	0.4308	2.036	I.1774	I 52.7	I.3091	12 51.8	0.2967 <sub>n</sub>	1.980
	7.5	0.4335	+2.046	I.1793	I 52.4	I.3093	12 48.2	0.2667 <sub>n</sub>	-1.848
	8.5	0.4363	2.056	I.1811	I 52.1	I.3096	12 44.7	0.2343 <sub>n</sub>	1.715
	9.5	0.4390	2.066	I.1830	I 51.8	I.3098	12 41.2	0.1992 <sub>n</sub>	1.582
	10.5	0.4417	2.076	I.1848	I 51.6	I.3100	12 37.6	0.1608 <sub>n</sub>	1.448
	11.5	0.4445	2.086	I.1866	I 51.3	I.3102	12 34.1	0.1189 <sub>n</sub>	1.315
	12.5	0.4472	2.096	I.1884	I 51.0	I.3104	12 30.6	0.0722 <sub>n</sub>	1.181

Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1920.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	
1920	in $^{\circ}.001$	in $^{\circ}.01$				in $^{\circ}.01$	$23^{\circ} 26'$		in $^{\circ}.01$	
Mai	2.5	- 9	+ 6	11.5 <sup>h</sup>	+16.84	+11.43	-14	52.38	-6.35	- 1
	3.5	- 8	6	9.7	16.97	11.42	-13	52.32	6.37	- 4
	4.5	- 5	7	8.2	17.11	11.40	- 9	52.28	6.40	- 6
	5.5	- 3	7	7.0	17.25	11.39	- 5	52.24	6.42	- 7
	6.5	0	7	5.9	17.39	11.38	0	52.21	6.45	- 7
	7.5	+ 3	6	4.7	17.52	11.37	+ 5	52.20	6.47	- 6
	8.5	+ 5	+ 5	3.2	+17.66	+11.36	+ 9	52.19	-6.50	- 4
	9.5	+ 6	4	0.9	17.80	11.35	+11	52.19	6.52	- 1
	10.5	+ 6	4	22.0	17.94	11.34	+10	52.20	6.55	+ 2
	11.5	+ 4	5	19.7	18.07	11.34	+ 6	52.20	6.57	+ 5
	12.5	0	7	17.9	18.21	11.34	- 1	52.20	6.59	+ 7
	13.5	- 5	8	16.4	18.35	11.33	- 8	52.18	6.62	+ 8
	14.5	-10	+ 9	15.1	+18.49	+11.33	-16	52.14	-6.64	+ 7
	15.5	-13	10	13.7	18.62	11.34	-22	52.09	6.67	+ 4
	16.5	-14	9	12.2	18.76	11.34	-23	52.03	6.69	0
	17.5	-12	9	10.4	18.90	11.34	-20	51.97	6.71	- 4
	18.5	- 8	8	8.4	19.04	11.35	-12	51.91	6.74	- 7
	19.5	- 1	8	6.3	19.17	11.35	- 2	51.87	6.76	- 8
	20.5	+ 6	+ 9	4.2	+19.31	+11.36	+10	51.85	-6.78	- 8
	21.5	+12	10	2.3	19.45	11.37	+20	51.85	6.80	- 5
22.5	+15	10	0.7	19.59	11.38	+25	51.86	6.83	- 2	
23.5	+16	11	23.1	19.73	11.39	+26	51.88	6.85	+ 2	
24.5	+13	11	21.7	19.86	11.40	+22	51.90	6.87	+ 6	
25.5	+ 9	10	20.4	20.00	11.41	+14	51.89	6.89	+ 8	
26.5	+ 3	+ 8	18.9	+20.14	+11.43	+ 5	51.88	-6.91	+ 8	
27.5	- 2	7	17.2	20.28	11.44	- 3	51.84	6.93	+ 6	
28.5	- 6	5	15.0	20.41	11.46	-10	51.79	6.95	+ 4	
29.5	- 8	5	12.1	20.55	11.47	-13	51.73	6.97	0	
30.5	- 8	6	10.0	20.69	11.49	-13	51.68	6.99	- 3	
31.5	- 6	7	8.5	20.83	11.51	-10	51.64	7.00	- 5	
Juni	1.5	- 4	+ 7	7.2	+20.96	+11.53	- 6	51.60	-7.02	- 7
	2.5	0	7	6.1	21.10	11.55	0	51.58	7.04	- 7
	3.5	+ 3	7	5.0	21.24	11.57	+ 5	51.57	7.06	- 6
	4.5	+ 5	6	3.5	21.38	11.59	+ 9	51.57	7.07	- 5
	5.5	+ 7	5	1.6	21.51	11.61	+11	51.58	7.09	- 2
	6.5	+ 6	4	22.9	21.65	11.64	+11	51.60	7.10	+ 1
	7.5	+ 4	+ 5	20.4	+21.79	+11.66	+ 7	51.61	-7.12	+ 4
	8.5	+ 1	7	18.4	21.93	11.69	+ 2	51.62	7.13	+ 6
	9.5	- 4	8	16.8	22.06	11.71	- 6	51.62	7.14	+ 8
	10.5	- 9	9	15.4	22.20	11.74	-15	51.60	7.16	+ 7
	11.5	-13	10	14.1	22.34	11.76	-21	51.57	7.17	+ 5
	12.5	-15	10	12.7	22.48	11.79	-25	51.52	7.18	+ 2

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>
1920								
Juni	12.5	0.4472	+2.096	I.1884	I <sup>h</sup> 51.0 <sup>m</sup>	I.3104	I2 <sup>h</sup> 30.6 <sup>m</sup>	0.0722 <sub>n</sub> —1.181
	13.5	0.4500	2.106	I.1902	I 50.7	I.3106	I2 27.1	0.0195 <sub>n</sub> I.046
	14.5	0.4527	2.116	I.1919	I 50.3	I.3107	I2 23.6	9.9595 <sub>n</sub> 0.911
	15.5	0.4554	2.126	I.1937	I 50.0	I.3108	I2 20.1	9.8899 <sub>n</sub> 0.776
	16.5	0.4582	2.136	I.1954	I 49.7	I.3109	I2 16.6	9.8069 <sub>n</sub> 0.641
	17.5	0.4609	2.146	I.1971	I 49.4	I.3110	I2 13.1	9.7033 <sub>n</sub> 0.505
	18.5	0.4636	+2.156	I.1988	I 49.0	I.3110	I2 9.5	9.5682 <sub>n</sub> —0.370
	19.5	0.4664	2.166	I.2005	I 48.7	I.3111	I2 6.0	9.3692 <sub>n</sub> 0.234
	20.5	0.4691	2.176	I.2022	I 48.4	I.3111	I2 2.5	8.9956 <sub>n</sub> —0.099
	21.5	0.4719	2.186	I.2039	I 48.0	I.3111	II 59.0	8.5682 +0.037
	22.5	0.4746	2.196	I.2056	I 47.6	I.3111	II 55.5	9.2380 0.173
	23.5	0.4773	2.207	I.2072	I 47.3	I.3111	II 52.0	9.4886 0.308
	24.5	0.4801	+2.217	I.2089	I 46.9	I.3110	II 48.5	9.6464 +0.443
	25.5	0.4828	2.227	I.2105	I 46.5	I.3109	II 45.0	9.7619 0.578
	26.5	0.4855	2.237	I.2121	I 46.2	I.3108	II 41.5	9.8531 0.713
	27.5	0.4883	2.247	I.2137	I 45.8	I.3107	II 38.0	9.9284 0.848
	28.5	0.4910	2.257	I.2153	I 45.4	I.3106	II 34.5	9.9926 0.983
	29.5	0.4938	2.267	I.2169	I 45.0	I.3105	II 31.0	0.0484 I.118
	30.5	0.4965	+2.277	I.2184	I 44.6	I.3103	II 27.5	0.0976 +1.252
Juli	1.5	0.4992	2.287	I.2199	I 44.2	I.3101	II 24.0	0.1418 I.386
	2.5	0.5020	2.297	I.2214	I 43.8	I.3099	II 20.5	0.1816 I.519
	3.5	0.5047	2.307	I.2229	I 43.4	I.3097	II 17.0	0.2180 I.652
	4.5	0.5075	2.317	I.2244	I 43.0	I.3094	II 13.4	0.2516 I.785
	5.5	0.5102	2.327	I.2259	I 42.6	I.3092	II 9.9	0.2826 I.917
	6.5	0.5129	+2.337	I.2274	I 42.2	I.3089	II 6.4	0.3113 +2.048
	7.5	0.5157	2.346	I.2288	I 41.8	I.3086	II 2.8	0.3383 2.179
	8.5	0.5184	2.356	I.2303	I 41.4	I.3083	IO 59.3	0.3636 2.310
	9.5	0.5211	2.366	I.2317	I 41.0	I.3080	IO 55.7	0.3872 2.439
	10.5	0.5239	2.375	I.2331	I 40.6	I.3077	IO 52.2	0.4096 2.568
	11.5	0.5266	2.385	I.2345	I 40.2	I.3073	IO 48.6	0.4307 2.696
	12.5	0.5294	+2.394	I.2358	I 39.7	I.3069	IO 45.1	0.4509 +2.824
	13.5	0.5321	2.404	I.2372	I 39.3	I.3065	IO 41.5	0.4698 2.950
	14.5	0.5348	2.413	I.2385	I 38.9	I.3061	IO 37.9	0.4880 3.076
	15.5	0.5376	2.423	I.2398	I 38.5	I.3057	IO 34.3	0.5054 3.202
	16.5	0.5403	2.432	I.2411	I 38.1	I.3053	IO 30.7	0.5219 3.326
	17.5	0.5430	2.441	I.2424	I 37.6	I.3049	IO 27.2	0.5377 3.449
	18.5	0.5458	+2.451	I.2437	I 37.2	I.3044	IO 23.5	0.5529 +3.572
	19.5	0.5485	2.460	I.2449	I 36.8	I.3039	IO 19.9	0.5674 3.693
	20.5	0.5513	2.469	I.2462	I 36.4	I.3034	IO 16.3	0.5813 3.813
	21.5	0.5540	2.478	I.2474	I 36.0	I.3029	IO 12.7	0.5947 3.933
	22.5	0.5567	2.487	I.2486	I 35.5	I.3024	IO 9.0	0.6076 4.051
	23.5	0.5595	2.495	I.2498	I 35.1	I.3019	IO 5.4	0.6199 4.168

Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1920.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1920	in 0.001	in 0.01				in 0.01	23° 26'		in 0.01
Juni 12.5	-15	+10	12.7 <sup>h</sup>	+22.48	+11.79	-25	51.52	-7.18	+2
13.5	-15	10	11.2	22.62	11.82	-24	51.46	7.19	-2
14.5	-11	9	9.4	22.75	11.84	-18	51.42	7.20	-6
15.5	-5	8	7.4	22.89	11.87	-8	51.39	7.21	-8
16.5	+2	8	5.3	23.03	11.90	+4	51.37	7.22	-8
17.5	+9	9	3.1	23.17	11.93	+15	51.38	7.23	-6
18.5	+14	+10	1.3	+23.30	+11.95	+23	51.40	-7.24	-3
19.5	+16	10	23.6	23.44	11.98	+26	51.44	7.25	+1
20.5	+15	11	22.1	23.58	12.01	+24	51.47	7.25	+5
21.5	+11	10	20.9	23.72	12.04	+17	51.49	7.26	+7
22.5	+5	9	19.6	23.85	12.07	+9	51.48	7.27	+8
23.5	0	7	17.9	23.99	12.09	0	51.47	7.27	+7
24.5	-4	+5	16.1	+24.13	+12.12	-7	51.44	-7.27	+5
25.5	-7	5	13.2	24.27	12.15	-11	51.40	7.28	+1
26.5	-7	5	10.6	24.40	12.18	-12	51.36	7.28	-2
27.5	-6	6	8.6	24.54	12.21	-10	51.33	7.29	-5
28.5	-4	7	7.3	24.68	12.23	-6	51.31	7.29	-6
29.5	0	7	6.1	24.82	12.26	-1	51.30	7.29	-7
30.5	+2	+7	5.0	+24.95	+12.29	+4	51.30	-7.29	-7
Juli 1.5	+5	6	3.7	25.09	12.31	+9	51.31	7.29	-5
2.5	+7	5	2.1	25.23	12.34	+11	51.34	7.29	-3
3.5	+7	5	23.9	25.37	12.36	+12	51.37	7.29	0
4.5	+6	5	21.3	25.51	12.38	+9	51.40	7.29	+3
5.5	+3	6	19.1	25.64	12.41	+4	51.42	7.28	+6
6.5	-2	+7	17.4	+25.78	+12.43	-3	51.44	-7.28	+7
7.5	-7	9	15.9	25.92	12.45	-11	51.44	7.28	+7
8.5	-12	10	14.5	26.06	12.48	-19	51.43	7.28	+6
9.5	-15	10	13.2	26.19	12.50	-24	51.40	7.27	+3
10.5	-15	10	11.7	26.33	12.52	-25	51.37	7.27	-1
11.5	-13	10	10.1	26.47	12.54	-22	51.34	7.26	-5
12.5	-8	+9	8.3	+26.61	+12.56	-13	51.31	-7.26	-7
13.5	-1	8	6.3	26.74	12.57	-2	51.31	7.25	-8
14.5	+6	8	4.1	26.88	12.59	+9	51.32	7.24	-7
15.5	+12	9	2.0	27.02	12.61	+19	51.36	7.24	-4
16.5	+15	9	0.1	27.16	12.62	+24	51.40	7.23	0
17.5	+13	10	22.5	27.29	12.63	+22	51.45	7.22	+4
18.5	+11	+10	21.2	+27.43	+12.65	+19	51.49	-7.21	+7
19.5	+7	9	20.0	27.57	12.66	+11	51.51	7.21	+8
20.5	+2	8	18.6	27.71	12.67	+3	51.51	7.20	+8
21.5	-3	6	16.8	27.84	12.68	-5	51.50	7.19	+6
22.5	-5	5	14.2	27.98	12.69	-9	51.48	7.18	+2
23.5	-7	4	11.3	28.12	12.69	-11	51.45	7.17	-1

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>	
1920									
Juli	23.5	0.5595	+2.495	I.2498	I <sup>h</sup> 35.1 <sup>m</sup>	I.3019	IO <sup>h</sup> 5.4 <sup>m</sup>	0.6199	+4.168
	24.5	0.5622	2.504	I.2510	I 34.7	I.3014	IO 1.7	0.6318	4.284
	25.5	0.5649	2.513	I.2522	I 34.3	I.3008	9 58.0	0.6434	4.399
	26.5	0.5677	2.521	I.2533	I 33.9	I.3003	9 54.4	0.6545	4.513
	27.5	0.5704	2.530	I.2544	I 33.5	I.2997	9 50.7	0.6651	4.625
	28.5	0.5732	2.538	I.2555	I 33.1	I.2992	9 47.0	0.6754	4.736
	29.5	0.5759	+2.547	I.2566	I 32.6	I.2986	9 43.3	0.6854	+4.846
	30.5	0.5786	2.555	I.2577	I 32.2	I.2980	9 39.5	0.6950	4.955
	31.5	0.5814	2.563	I.2588	I 31.8	I.2974	9 35.8	0.7043	5.062
Aug.	1.5	0.5841	2.572	I.2598	I 31.4	I.2968	9 32.1	0.7133	5.168
	2.5	0.5868	2.580	I.2609	I 31.0	I.2962	9 28.3	0.7221	5.273
	3.5	0.5896	2.588	I.2619	I 30.6	I.2956	9 24.5	0.7305	5.376
	4.5	0.5923	+2.595	I.2629	I 30.3	I.2950	9 20.7	0.7385	
	5.5	0.5951	2.603	I.2639	I 29.9	I.2944	9 17.0	0.7464	
	6.5	0.5978	2.611	I.2649	I 29.5	I.2937	9 13.2	0.7540	
	7.5	0.6005	2.618	I.2659	I 29.1	I.2931	9 9.3	0.7614	
	8.5	0.6033	2.626	I.2668	I 28.7	I.2925	9 5.5	0.7685	
	9.5	0.6060	2.633	I.2678	I 28.4	I.2919	9 1.7	0.7754	
	10.5	0.6088	+2.641	I.2687	I 28.0	I.2912	8 57.8	0.7820	
	11.5	0.6115	2.648	I.2696	I 27.6	I.2906	8 53.9	0.7885	
	12.5	0.6142	2.655	I.2705	I 27.3	I.2900	8 50.1	0.7947	
	13.5	0.6170	2.662	I.2714	I 26.9	I.2894	8 46.2	0.8007	
	14.5	0.6197	2.669	I.2723	I 26.6	I.2887	8 42.3	0.8066	
	15.5	0.6224	2.676	I.2732	I 26.2	I.2881	8 38.4	0.8122	
	16.5	0.6252	+2.683	I.2740	I 25.9	I.2875	8 34.4	0.8176	
	17.5	0.6279	2.690	I.2749	I 25.5	I.2869	8 30.5	0.8229	
	18.5	0.6307	2.697	I.2757	I 25.2	I.2863	8 26.5	0.8280	
	19.5	0.6334	2.703	I.2766	I 24.9	I.2857	8 22.6	0.8328	
	20.5	0.6361	2.710	I.2774	I 24.6	I.2851	8 18.6	0.8375	
	21.5	0.6389	2.716	I.2782	I 24.3	I.2845	8 14.6	0.8420	
	22.5	0.6416	+2.722	I.2790	I 24.0	I.2839	8 10.6	0.8464	
	23.5	0.6443	2.729	I.2798	I 23.7	I.2834	8 6.6	0.8506	
	24.5	0.6471	2.735	I.2806	I 23.4	I.2828	8 2.6	0.8547	
	25.5	0.6498	2.741	I.2813	I 23.1	I.2822	7 58.5	0.8587	
	26.5	0.6526	2.747	I.2821	I 22.8	I.2817	7 54.5	0.8624	
	27.5	0.6553	2.753	I.2828	I 22.6	I.2812	7 50.4	0.8659	
	28.5	0.6580	+2.759	I.2836	I 22.3	I.2807	7 46.3	0.8694	
	29.5	0.6608	2.765	I.2843	I 22.1	I.2802	7 42.2	0.8727	
	30.5	0.6635	2.771	I.2851	I 21.8	I.2797	7 38.1	0.8758	
	31.5	0.6662	2.777	I.2858	I 21.6	I.2792	7 34.0	0.8788	
Sept.	1.5	0.6690	2.782	I.2865	I 21.3	I.2788	7 29.9	0.8817	
	2.5	0.6717	2.788	I.2872	I 21.1	I.2783	7 25.8	0.8844	

# Reduktionsgrößen 1920

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Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1920.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\epsilon$	$\Delta\epsilon'$
1920	in $0.001$	in $0.01$				in $0.01$	$23^\circ 26'$		in $0.01$
Juli 23.5	- 7	+ 4	11.3	+28.12	+12.69	-11	51.45	-7.17	- 1
24.5	- 6	6	9.0	28.26	12.70	-10	51.43	7.16	- 4
25.5	- 4	6	7.5	28.39	12.70	- 6	51.42	7.15	- 6
26.5	- 1	7	6.3	28.53	12.71	- 1	51.42	7.14	- 7
27.5	+ 2	7	5.2	28.67	12.71	+ 4	51.43	7.12	- 7
28.5	+ 5	7	3.9	28.81	12.71	+ 8	51.45	7.11	- 6
29.5	+ 7	+ 6	2.4	+28.95	+12.71	+12	51.48	-7.10	- 3
30.5	+ 8	5	0.6	29.08	12.71	+13	51.52	7.09	- 1
31.5	+ 7	5	22.3	29.22	12.70	+12	51.56	7.08	+ 2
Aug. 1.5	+ 5	6	20.2	29.36	12.70	+ 8	51.60	7.07	+ 5
2.5	+ 1	7	18.2	29.50	12.69	+ 1	51.63	7.05	+ 7
3.5	- 4	8	16.6	29.63	12.68	- 7	51.65	7.04	+ 7
4.5	- 9	+ 9	15.1	+29.77	+12.67	-15	51.65	-7.03	+ 6
5.5	-13	10	13.7	29.91	12.66	-22	51.64	7.02	+ 4
6.5	-15	10	12.2	30.05	12.65	-25	51.61	7.00	0
7.5	-14	10	10.7	30.18	12.64	-23	51.58	6.99	- 3
8.5	-10	9	9.0	30.32	12.63	-17	51.57	6.98	- 6
9.5	- 4	9	7.2	30.46	12.61	- 7	51.56	6.97	- 8
10.5	+ 2	+ 8	5.1	+30.60	+12.59	+ 4	51.57	-6.96	- 8
11.5	+ 9	8	2.9	30.73	12.57	+14	51.61	6.94	- 5
12.5	+12	8	0.8	30.87	12.55	+20	51.66	6.93	- 2
13.5	+13	9	23.0	31.01	12.53	+22	51.71	6.92	+ 2
14.5	+12	10	21.5	31.15	12.51	+19	51.75	6.90	+ 6
15.5	+ 7	9	20.2	31.28	12.49	+12	51.78	6.89	+ 8
16.5	+ 2	+ 8	18.8	+31.42	+12.46	+ 4	51.80	-6.88	+ 8
17.5	- 2	7	17.2	31.56	12.43	- 3	51.79	6.87	+ 6
18.5	- 5	5	15.1	31.70	12.40	- 9	51.78	6.86	+ 4
19.5	- 7	5	12.2	31.84	12.37	-11	51.75	6.84	0
20.5	- 6	5	9.6	31.97	12.34	-10	51.73	6.83	- 3
21.5	- 4	6	7.9	32.11	12.31	- 7	51.71	6.82	- 5
22.5	- 2	+ 7	6.6	+32.25	+12.28	- 3	51.71	-6.81	- 7
23.5	+ 2	7	5.5	32.39	12.24	+ 3	51.72	6.80	- 7
24.5	+ 4	7	4.3	32.52	12.21	+ 7	51.74	6.79	- 6
25.5	+ 7	6	2.9	32.66	12.17	+11	51.76	6.78	- 4
26.5	+ 8	6	1.3	32.80	12.13	+13	51.80	6.77	- 2
27.5	+ 8	5	23.1	32.94	12.09	+13	51.83	6.76	+ 1
28.5	+ 6	+ 6	20.9	+33.07	+12.05	+10	51.87	-6.75	+ 4
29.5	+ 2	7	19.0	33.21	12.01	+ 4	51.90	6.74	+ 6
30.5	- 2	8	17.3	33.35	11.97	- 3	51.92	6.74	+ 7
31.5	- 7	8	15.8	33.49	11.92	-12	51.92	6.73	+ 7
Sept. 1.5	-12	9	14.2	33.62	11.88	-19	51.90	6.72	+ 5
2.5	-14	9	12.7	33.76	11.83	-23	51.88	6.71	+ 2

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>
1920							
Sept. 2.5	0.6717	+2.788	1.2872	I <sup>h m</sup> 21.1	1.2783	7 <sup>h m</sup> 25.8	0.8844
3.5	0.6745	2.793	1.2879	I 20.9	1.2779	7 21.6	0.8869
4.5	0.6772	2.799	1.2887	I 20.7	1.2775	7 17.5	0.8894
5.5	0.6799	2.804	1.2894	I 20.5	1.2771	7 13.3	0.8918
6.5	0.6827	2.810	1.2901	I 20.3	1.2767	7 9.2	0.8939
7.5	0.6854	2.815	1.2908	I 20.1	1.2764	7 5.0	0.8959
8.5	0.6882	+2.820	1.2915	I 19.9	1.2761	7 0.8	0.8978
9.5	0.6909	2.826	1.2921	I 19.7	1.2758	6 56.6	0.8996
10.5	0.6936	2.831	1.2928	I 19.6	1.2755	6 52.4	0.9012
11.5	0.6964	2.836	1.2935	I 19.4	1.2752	6 48.2	0.9028
12.5	0.6991	2.841	1.2942	I 19.3	1.2749	6 44.0	0.9041
13.5	0.7018	2.846	1.2949	I 19.1	1.2747	6 39.8	0.9054
14.5	0.7046	+2.851	1.2956	I 19.0	1.2745	6 35.5	0.9065
15.5	0.7073	2.856	1.2962	I 18.9	1.2743	6 31.3	0.9075
16.5	0.7101	2.861	1.2969	I 18.8	1.2742	6 27.0	0.9084
17.5	0.7128	2.866	1.2976	I 18.6	1.2740	6 22.8	0.9091
18.5	0.7155	2.871	1.2983	I 18.5	1.2739	6 18.5	0.9097
19.5	0.7183	2.876	1.2990	I 18.4	1.2738	6 14.3	0.9102
20.5	0.7210	+2.881	1.2997	I 18.4	1.2737	6 10.0	0.9106
21.5	0.7237	2.886	1.3004	I 18.3	1.2737	6 5.8	0.9108
22.5	0.7265	2.891	1.3011	I 18.2	1.2737	6 1.5	0.9109
23.5	0.7292	2.896	1.3018	I 18.1	1.2737	5 57.2	0.9109
24.5	0.7320	2.901	1.3025	I 18.1	1.2737	5 52.9	0.9107
25.5	0.7347	2.906	1.3032	I 18.0	1.2738	5 48.7	0.9105
26.5	0.7374	+2.911	1.3039	I 18.0	1.2738	5 44.4	0.9100
27.5	0.7402	2.916	1.3046	I 18.0	1.2739	5 40.1	0.9095
28.5	0.7429	2.921	1.3053	I 17.9	1.2741	5 35.8	0.9089
29.5	0.7456	2.926	1.3061	I 17.9	1.2742	5 31.6	0.9081
30.5	0.7484	2.931	1.3068	I 17.9	1.2744	5 27.3	0.9071
Okt. 1.5	0.7511	2.936	1.3075	I 17.9	1.2746	5 23.0	0.9061
2.5	0.7539	+2.941	1.3083	I 17.9	1.2748	5 18.7	0.9049
3.5	0.7566	2.946	1.3090	I 17.9	1.2750	5 14.5	0.9036
4.5	0.7593	2.951	1.3098	I 17.9	1.2753	5 10.2	0.9022
5.5	0.7621	2.956	1.3106	I 17.9	1.2756	5 5.9	0.9006
6.5	0.7648	2.962	1.3114	I 17.9	1.2759	5 1.7	0.8989
7.5	0.7676	2.967	1.3121	I 17.9	1.2762	4 57.4	0.8970
8.5	0.7703	+2.972	1.3129	I 18.0	1.2765	4 53.2	0.8950
9.5	0.7730	2.978	1.3138	I 18.0	1.2769	4 48.9	0.8929
10.5	0.7758	2.983	1.3145	I 18.0	1.2773	4 44.7	0.8906
11.5	0.7785	2.988	1.3153	I 18.1	1.2777	4 40.4	0.8882
12.5	0.7812	2.994	1.3162	I 18.1	1.2781	4 36.2	0.8856
13.5	0.7840	2.999	1.3170	I 18.2	1.2786	4 32.0	0.8829



# Reduktionsgrößen 1920

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Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1920.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1920	in 0.001	in 0.01				in 0.01	23° 26'		in 0.01
Sept. 2.5	-14	+ 9	12.7	+33.76	+11.83	-23	51.88	-6.71	+ 2
3.5	-14	9	11.2	33.90	11.78	-23	51.85	6.71	- 2
4.5	-11	9	9.5	34.04	11.74	-18	51.82	6.70	- 5
5.5	- 5	8	7.7	34.17	11.69	- 9	51.80	6.70	- 8
6.5	+ 1	8	5.8	34.31	11.64	+ 1	51.80	6.69	- 8
7.5	+ 7	8	3.7	34.45	11.59	+11	51.82	6.69	- 6
8.5	+11	+ 8	1.5	+34.59	+11.54	+18	51.85	-6.68	- 3
9.5	+13	9	23.6	34.72	11.49	+21	51.90	6.68	+ 1
10.5	+12	9	21.9	34.86	11.43	+19	51.94	6.68	+ 5
11.5	+ 8	9	20.4	35.00	11.38	+13	51.96	6.68	+ 7
12.5	+ 3	8	19.0	35.14	11.33	+ 5	51.97	6.67	+ 8
13.5	- 2	7	17.5	35.28	11.27	- 3	51.96	6.67	+ 7
14.5	- 5	+ 6	15.6	+35.41	+11.21	- 9	51.93	-6.67	+ 5
15.5	- 7	5	13.0	35.55	11.16	-12	51.90	6.67	+ 1
16.5	- 7	5	10.5	35.69	11.11	-12	51.86	6.67	- 2
17.5	- 5	6	8.5	35.83	11.05	- 9	51.83	6.68	- 5
18.5	- 3	7	7.0	35.96	11.00	- 5	51.81	6.68	- 7
19.5	0	7	5.8	36.10	10.94	+ 1	51.80	6.68	- 7
20.5	+ 4	+ 7	4.7	+36.24	+10.88	+ 6	51.80	-6.68	- 6
21.5	+ 6	6	3.4	36.38	10.83	+10	51.81	6.69	- 5
22.5	+ 8	6	1.8	36.51	10.77	+13	51.83	6.69	- 3
23.5	+ 8	5	23.9	36.65	10.71	+13	51.85	6.70	0
24.5	+ 7	5	21.6	36.79	10.65	+11	51.87	6.70	+ 3
25.5	+ 4	6	19.5	36.93	10.60	+ 6	51.89	6.71	+ 6
26.5	0	+ 7	17.8	+37.06	+10.54	- 1	51.90	-6.72	+ 7
27.5	- 5	8	16.3	37.20	10.49	- 9	51.89	6.73	+ 7
28.5	-10	9	14.8	37.34	10.43	-16	51.87	6.74	+ 6
29.5	-13	9	13.3	37.48	10.37	-21	51.83	6.74	+ 3
30.5	-13	9	11.7	37.61	10.32	-22	51.78	6.75	- 1
Okt. 1.5	-12	9	10.0	37.75	10.26	-19	51.73	6.76	- 4
2.5	- 7	+ 8	8.2	+37.89	+10.21	-11	51.69	-6.78	- 7
3.5	- 1	8	6.2	38.03	10.15	- 1	51.67	6.79	- 8
4.5	+ 5	8	4.1	38.17	10.10	+ 9	51.66	6.80	- 7
5.5	+10	8	2.1	38.30	10.05	+17	51.68	6.81	- 4
6.5	+13	9	0.2	38.44	9.99	+22	51.70	6.83	0
7.5	+13	9	22.4	38.58	9.94	+21	51.73	6.84	+ 4
8.5	+10	+ 9	20.9	+38.72	+ 9.89	+16	51.75	-6.86	+ 7
9.5	+ 5	9	19.4	38.85	9.84	+ 8	51.74	6.87	+ 8
10.5	0	8	17.9	38.99	9.79	0	51.72	6.89	+ 8
11.5	- 5	6	16.2	39.13	9.74	- 8	51.68	6.90	+ 6
12.5	- 7	5	13.8	39.27	9.69	-12	51.63	6.92	+ 2
13.5	- 8	5	11.3	39.40	9.65	-13	51.58	6.94	- 1

Mittl. Zeit Greenwich	$t$	$f$	$\log g$	$G$	$\log h$	$H$	$\log i$	$i$
1920								
Okt. 13.5	0.7840	+2.999	1.3170	1 <sup>h</sup> 18.2 <sup>m</sup>	1.2786	4 <sup>h</sup> 32.0 <sup>m</sup>	0.8829	
14.5	0.7867	3.005	1.3179	1 18.2	1.2790	4 27.7	0.8801	
15.5	0.7895	3.011	1.3187	1 18.3	1.2795	4 23.5	0.8771	
16.5	0.7922	3.016	1.3196	1 18.3	1.2800	4 19.3	0.8739	
17.5	0.7949	3.022	1.3205	1 18.4	1.2805	4 15.1	0.8706	
18.5	0.7977	3.028	1.3214	1 18.4	1.2810	4 10.9	0.8671	
19.5	0.8004	+3.034	1.3222	1 18.5	1.2816	4 6.7	0.8634	
20.5	0.8031	3.040	1.3231	1 18.6	1.2821	4 2.6	0.8597	
21.5	0.8059	3.046	1.3241	1 18.6	1.2827	3 58.4	0.8557	
22.5	0.8086	3.052	1.3250	1 18.7	1.2832	3 54.2	0.8515	
23.5	0.8114	3.059	1.3259	1 18.8	1.2838	3 50.1	0.8472	
24.5	0.8141	3.065	1.3269	1 18.9	1.2844	3 45.9	0.8427	
25.5	0.8168	+3.071	1.3279	1 18.9	1.2850	3 41.8	0.8380	
26.5	0.8196	3.078	1.3289	1 19.0	1.2856	3 37.7	0.8331	
27.5	0.8223	3.085	1.3298	1 19.1	1.2863	3 33.6	0.8281	
28.5	0.8250	3.091	1.3308	1 19.2	1.2869	3 29.5	0.8228	
29.5	0.8278	3.098	1.3318	1 19.3	1.2875	3 25.4	0.8174	
30.5	0.8305	3.105	1.3328	1 19.3	1.2882	3 21.3	0.8117	
31.5	0.8333	+3.112	1.3339	1 19.4	1.2888	3 17.2	0.8058	
Nov. 1.5	0.8360	3.119	1.3350	1 19.5	1.2895	3 13.1	0.7997	
2.5	0.8387	3.126	1.3360	1 19.6	1.2901	3 9.1	0.7934	
3.5	0.8415	3.133	1.3371	1 19.7	1.2908	3 5.0	0.7868	
4.5	0.8442	3.141	1.3382	1 19.7	1.2914	3 1.0	0.7800	
5.5	0.8470	3.148	1.3392	1 19.8	1.2921	2 57.0	0.7730	
6.5	0.8497	+3.156	1.3403	1 19.9	1.2927	2 53.0	0.7657	+5.831
7.5	0.8524	3.163	1.3414	1 19.9	1.2934	2 49.0	0.7582	5.730
8.5	0.8552	3.171	1.3425	1 20.0	1.2940	2 45.0	0.7503	5.627
9.5	0.8579	3.179	1.3436	1 20.1	1.2947	2 41.0	0.7422	5.523
10.5	0.8606	3.187	1.3447	1 20.1	1.2953	2 37.0	0.7338	5.417
11.5	0.8634	3.195	1.3459	1 20.2	1.2960	2 33.0	0.7251	5.310
12.5	0.8661	+3.203	1.3470	1 20.2	1.2966	2 29.1	0.7161	+5.201
13.5	0.8689	3.212	1.3482	1 20.3	1.2973	2 25.1	0.7067	5.090
14.5	0.8716	3.220	1.3493	1 20.3	1.2979	2 21.2	0.6970	4.977
15.5	0.8743	3.228	1.3505	1 20.3	1.2985	2 17.3	0.6869	4.863
16.5	0.8771	3.237	1.3517	1 20.4	1.2991	2 13.4	0.6764	4.747
17.5	0.8798	3.246	1.3529	1 20.4	1.2997	2 9.5	0.6656	4.630
18.5	0.8825	+3.254	1.3540	1 20.4	1.3003	2 5.6	0.6543	+4.511
19.5	0.8853	3.263	1.3552	1 20.4	1.3009	2 1.7	0.6425	4.390
20.5	0.8880	3.272	1.3564	1 20.5	1.3015	1 57.8	0.6303	4.269
21.5	0.8908	3.281	1.3576	1 20.5	1.3020	1 53.9	0.6176	4.146
22.5	0.8935	3.290	1.3588	1 20.5	1.3026	1 50.1	0.6044	4.022
23.5	0.8962	3.299	1.3600	1 20.5	1.3031	1 46.2	0.5906	3.896

# Reduktionsgrößen 1920

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Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzesston seit 1920,0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1920	in 0.001	in 0.01				in 0.01	23° 26'		in 0.01
Okt. 13.5	— 8	+ 5	11.3 <sup>h</sup>	+39.40	+9.65	—13	51.58	—6.94	— 1
14.5	— 7	6	9.1	39.54	9.60	—11	51.53	6.96	— 4
15.5	— 4	7	7.6	39.68	9.56	— 6	51.49	6.97	— 6
16.5	— 1	7	6.3	39.82	9.51	— 1	51.46	6.99	— 7
17.5	+ 2	7	5.1	39.95	9.47	+ 4	51.44	7.01	— 7
18.5	+ 5	6	3.9	40.09	9.43	+ 9	51.43	7.03	— 5
19.5	+ 7	+ 6	2.4	+40.23	+9.39	+12	51.43	—7.05	— 3
20.5	+ 7	5	0.6	40.37	9.35	+12	51.43	7.07	— 1
21.5	+ 7	5	22.2	40.50	9.31	+11	51.44	7.10	+ 2
22.5	+ 4	6	20.0	40.64	9.28	+ 7	51.44	7.12	+ 5
23.5	0	7	18.1	40.78	9.24	0	51.44	7.14	+ 7
24.5	— 4	8	16.6	40.92	9.21	— 7	51.42	7.16	+ 7
25.5	— 9	+ 9	15.2	+41.05	+9.17	—14	51.39	—7.18	+ 6
26.5	—12	9	13.8	41.19	9.14	—20	51.34	7.21	+ 4
27.5	—14	9	12.3	41.33	9.11	—23	51.28	7.23	+ 1
28.5	—12	9	10.6	41.47	9.09	—20	51.22	7.25	— 3
29.5	— 9	8	8.8	41.61	9.06	—14	51.16	7.28	— 6
30.5	— 2	8	6.8	41.74	9.03	— 4	51.12	7.30	— 8
31.5	+ 4	+ 8	4.7	+41.88	+9.01	+ 7	51.10	—7.33	— 8
Nov. 1.5	+10	9	2.7	42.02	8.99	+16	51.09	7.35	— 5
2.5	+13	9	0.8	42.16	8.97	+22	51.10	7.38	— 2
3.5	+14	9	23.1	42.29	8.95	+23	51.12	7.40	+ 2
4.5	+12	10	21.6	42.43	8.93	+19	51.13	7.43	+ 6
5.5	+ 7	9	20.1	42.57	8.92	+12	51.12	7.45	+ 8
6.5	+ 2	+ 8	18.6	+42.71	+8.90	+ 3	51.10	—7.47	+ 8
7.5	— 3	7	16.9	42.84	8.89	— 5	51.06	7.50	+ 6
8.5	— 7	6	14.7	42.98	8.88	—11	51.00	7.52	+ 4
9.5	— 8	5	12.2	43.12	8.87	—13	50.94	7.55	0
10.5	— 7	6	9.8	43.26	8.87	—12	50.88	7.57	— 3
11.5	— 5	6	8.0	43.39	8.86	— 8	50.83	7.60	— 6
12.5	— 2	+ 7	6.7	+43.53	+8.86	— 3	50.79	—7.62	— 7
13.5	+ 2	7	5.5	43.67	8.85	+ 2	50.76	7.65	— 7
14.5	+ 5	7	4.3	43.81	8.85	+ 7	50.75	7.67	— 6
15.5	+ 7	6	2.9	43.94	8.85	+11	50.75	7.70	— 4
16.5	+ 7	5	1.2	44.08	8.85	+12	50.74	7.72	— 2
17.5	+ 7	5	22.8	44.22	8.86	+11	50.75	7.74	+ 1
18.5	+ 5	+ 5	20.5	+44.36	+8.86	+ 8	50.75	—7.77	+ 4
19.5	+ 1	6	18.4	44.50	8.87	+ 2	50.74	7.79	+ 6
20.5	— 4	8	16.8	44.63	8.88	— 6	50.73	7.81	+ 7
21.5	— 8	9	15.4	44.77	8.89	—14	50.70	7.84	+ 7
22.5	—12	9	14.1	44.91	8.90	—20	50.66	7.86	+ 5
23.5	—15	10	12.8	45.05	8.91	—24	50.61	7.88	+ 2

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>
1920								
Nov. 23.5	0.8962	+3.299	1.3600	1 <sup>a</sup> 20.5 <sup>m</sup>	1.3031	1 <sup>h</sup> 46.2 <sup>m</sup>	0.5906	+3.896
24.5	0.8990	3.309	1.3613	1 20.5	1.3036	1 42.4	0.5762	3.769
25.5	0.9017	3.318	1.3625	1 20.5	1.3041	1 38.5	0.5612	3.641
26.5	0.9044	3.327	1.3637	1 20.5	1.3046	1 34.7	0.5456	3.512
27.5	0.9072	3.337	1.3649	1 20.4	1.3051	1 30.9	0.5292	3.382
28.5	0.9099	3.346	1.3661	1 20.4	1.3056	1 27.0	0.5119	3.250
29.5	0.9127	+3.356	1.3674	1 20.4	1.3060	1 23.2	0.4937	+3.117
30.5	0.9154	3.366	1.3686	1 20.3	1.3064	1 19.4	0.4748	2.984
Dez. 1.5	0.9181	3.376	1.3698	1 20.3	1.3069	1 15.6	0.4547	2.849
2.5	0.9209	3.385	1.3711	1 20.3	1.3073	1 11.8	0.4334	2.713
3.5	0.9236	3.395	1.3723	1 20.2	1.3076	1 8.1	0.4111	2.577
4.5	0.9263	3.405	1.3735	1 20.1	1.3080	1 4.3	0.3874	2.440
5.5	0.9291	+3.415	1.3747	1 20.1	1.3084	1 0.5	0.3621	+2.302
6.5	0.9318	3.425	1.3760	1 20.0	1.3087	0 56.7	0.3351	2.163
7.5	0.9346	3.436	1.3772	1 19.9	1.3090	0 53.0	0.3060	2.023
8.5	0.9373	3.446	1.3785	1 19.8	1.3093	0 49.2	0.2749	1.883
9.5	0.9400	3.456	1.3797	1 19.7	1.3095	0 45.4	0.2413	1.743
10.5	0.9428	3.466	1.3809	1 19.6	1.3098	0 41.7	0.2044	1.601
11.5	0.9455	+3.477	1.3821	1 19.5	1.3100	0 37.9	0.1641	+1.459
12.5	0.9483	3.487	1.3833	1 19.4	1.3102	0 34.2	0.1193	1.316
13.5	0.9510	3.497	1.3845	1 19.3	1.3104	0 30.4	0.0693	1.173
14.5	0.9537	3.508	1.3857	1 19.1	1.3106	0 26.7	0.0128	1.030
15.5	0.9565	3.518	1.3869	1 19.0	1.3107	0 22.9	9.9479	0.887
16.5	0.9592	3.529	1.3881	1 18.9	1.3108	0 19.2	9.8710	0.743
17.5	0.9619	+3.539	1.3893	1 18.7	1.3109	0 15.5	9.7774	+0.599
18.5	0.9647	3.550	1.3905	1 18.6	1.3110	0 11.7	9.6571	0.454
19.5	0.9674	3.560	1.3917	1 18.4	1.3111	0 8.0	9.4900	0.309
20.5	0.9702	3.571	1.3929	1 18.3	1.3111	0 4.2	9.2148	0.164
21.5	0.9729	3.581	1.3940	1 18.1	1.3111	0 0.5	8.3010	+0.020
22.5	0.9756	3.592	1.3952	1 17.9	1.3111	23 56.8	9.0969 <sub>n</sub>	-0.125
23.5	0.9784	+3.603	1.3964	1 17.8	1.3111	23 53.0	9.4314 <sub>n</sub>	-0.270
24.5	0.9811	3.613	1.3975	1 17.6	1.3110	23 49.3	9.6180 <sub>n</sub>	0.415
25.5	0.9838	3.624	1.3986	1 17.4	1.3110	23 45.5	9.7474 <sub>n</sub>	0.559
26.5	0.9866	3.634	1.3998	1 17.2	1.3109	23 41.8	9.8470 <sub>n</sub>	0.703
27.5	0.9893	3.645	1.4009	1 17.0	1.3108	23 38.1	9.9279 <sub>n</sub>	0.847
28.5	0.9921	3.655	1.4020	1 16.8	1.3106	23 34.3	9.9961 <sub>n</sub>	0.991
29.5	0.9948	+3.666	1.4031	1 16.6	1.3104	23 30.6	0.0550 <sub>n</sub>	-1.135
30.5	0.9975	3.676	1.4042	1 16.4	1.3102	23 26.8	0.1069 <sub>n</sub>	1.279
31.5	1.0003	3.686	1.4053	1 16.2	1.3100	23 23.1	0.1529 <sub>n</sub>	1.422
32.5	1.0030	3.697	1.4064	1 16.0	1.3098	23 19.3	0.1945 <sub>n</sub>	1.565
33.5	1.0057	3.707	1.4075	1 15.7	1.3096	23 15.5	0.2320 <sub>n</sub>	1.706
34.5	1.0085	3.717	1.4086	1 15.5	1.3093	23 11.8	0.2665 <sub>n</sub>	1.847

Mittl. Zeit Greenwich	$f'$	$g'$	$G'$	Allgemeine Präzession seit 1920.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta z$	$\Delta z'$
1920	in 0.001	in 0.01				in 0.01	23° 26'		in 0.01
Nov. 23.5	-15	+10	12.8	+45.05	+8.91	-24	50.61	-7.88	+2
24.5	-14	9	11.3	45.18	8.93	-23	50.55	7.90	-2
25.5	-11	9	9.6	45.32	8.94	-18	50.49	7.92	-5
26.5	-5	8	7.6	45.46	8.96	-8	50.45	7.94	-7
27.5	+2	8	5.5	45.60	8.98	+3	50.42	7.97	-8
28.5	+8	8	3.4	45.73	9.00	+13	50.41	7.99	-6
29.5	+13	+9	1.4	+45.87	+9.02	+21	50.43	-8.00	-3
30.5	+15	10	23.7	46.01	9.04	+24	50.45	8.02	+1
Dez. 1.5	+13	10	22.2	46.15	9.06	+22	50.46	8.04	+5
2.5	+10	10	20.8	46.28	9.08	+16	50.47	8.06	+7
3.5	+5	9	19.4	46.42	9.11	+8	50.46	8.08	+8
4.5	-1	7	17.8	46.56	9.13	-1	50.43	8.09	+7
5.5	-5	+6	15.7	+46.70	+9.16	-8	50.39	-8.11	+5
6.5	-7	5	13.1	46.83	9.19	-11	50.34	8.13	+1
7.5	-7	5	10.3	46.97	9.22	-12	50.29	8.14	-2
8.5	-5	6	8.3	47.11	9.25	-9	50.25	8.16	-5
9.5	-2	7	6.9	47.25	9.28	-4	50.21	8.17	-7
10.5	+1	7	5.7	47.39	9.31	+2	50.20	8.18	-7
11.5	+4	+7	4.5	+47.52	+9.34	+7	50.19	-8.19	-6
12.5	+6	6	3.2	47.66	9.37	+10	50.19	8.21	-5
13.5	+7	5	1.6	47.80	9.40	+12	50.20	8.22	-2
14.5	+7	5	23.6	47.94	9.44	+12	50.22	8.23	0
15.5	+5	5	21.2	48.07	9.47	+9	50.24	8.24	+3
16.5	+2	6	19.1	48.21	9.50	+4	50.25	8.25	+6
17.5	-2	+7	17.2	+48.35	+9.54	-3	50.25	-8.26	+7
18.5	-7	9	15.8	48.49	9.57	-12	50.25	8.26	+7
19.5	-12	9	14.5	48.62	9.61	-19	50.22	8.27	+6
20.5	-15	10	13.2	48.76	9.64	-24	50.19	8.28	+3
21.5	-15	10	11.8	48.90	9.68	-25	50.15	8.28	-1
22.5	-13	10	10.3	49.04	9.71	-22	50.10	8.29	-4
23.5	-9	+9	8.6	+49.17	+9.75	-14	50.07	-8.29	-7
24.5	-2	8	6.6	49.31	9.78	-3	50.06	8.29	-8
25.5	+5	8	4.3	49.45	9.82	+8	50.06	8.30	-7
26.5	+10	8	2.2	49.59	9.85	+17	50.09	8.30	-4
27.5	+14	9	0.3	49.72	9.89	+23	50.12	8.30	-1
28.5	+14	10	22.7	49.86	9.92	+23	50.16	8.30	+3
29.5	+12	+10	21.3	+50.00	+9.95	+19	50.19	-8.30	+6
30.5	+7	9	20.0	50.14	9.99	+11	50.20	8.30	+8
31.5	+2	8	18.5	50.27	10.02	+3	50.20	8.30	+8
32.5	-2	6	16.8	50.41	10.05	-4	50.18	8.29	+5
33.5	-5	4	14.2	50.55	10.08	-9	50.15	8.29	+2
34.5	-7	4	11.0	50.69	10.11	-11	50.12	8.29	-1

Mittlere Zeit Greenwich	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1920							
Jan. 0.724	-0.0012	+0.28205	-492	+6.139	- 5	- 3.102	+20.189
1.721	+0.0015	0.28550	-438	6.139	+35	3.430	20.126
2.718	0.0043	0.28893	-292	6.138	+68	3.757	20.056
3.715	0.0070	0.29235	- 80	6.137	+84	4.083	19.980
4.713	0.0097	0.29575	+156	6.136	+80	4.407	19.898
5.710	0.0125	0.29914	+356	6.134	+58	4.730	19.809
6.707	0.0152	+0.30252	+482	+6.131	+19	- 5.052	+19.715
7.704	0.0179	0.30588	+510	6.128	-21	5.372	19.615
8.702	0.0207	0.30922	+442	6.124	-56	5.691	19.508
9.699	0.0234	0.31254	+305	6.119	-76	6.007	19.395
10.696	0.0261	0.31585	+134	6.113	-81	6.321	19.276
11.693	0.0288	0.31914	- 34	6.107	-69	6.634	19.150
12.691	0.0316	+0.32240	-166	+6.100	-43	- 6.945	+19.019
13.688	0.0343	0.32564	-244	6.093	-12	7.253	18.882
14.685	0.0370	0.32885	-260	6.086	+19	7.559	18.739
15.682	0.0398	0.33204	-226	6.078	+47	7.863	18.590
16.680	0.0425	0.33520	-152	6.069	+65	8.164	18.435
17.677	0.0452	0.33834	- 51	6.060	+72	8.462	18.274
18.674	0.0480	+0.34145	+ 58	+6.051	+69	- 8.758	+18.108
19.672	0.0507	0.34454	+159	6.041	+53	9.050	17.936
20.669	0.0534	0.34760	+229	6.031	+29	9.340	17.758
21.666	0.0562	0.35063	+251	6.020	- 3	9.628	17.575
22.663	0.0589	0.35363	+211	6.009	-35	9.912	17.386
23.661	0.0616	0.35660	+107	5.998	-62	10.193	17.192
24.658	0.0643	+0.35955	- 46	+5.987	-78	-10.470	+16.993
25.655	0.0671	0.36247	-217	5.975	-77	10.744	16.789
26.652	0.0698	0.36535	-371	5.963	-57	11.015	16.579
27.650	0.0725	0.36820	-462	5.951	-23	11.282	16.364
28.647	0.0753	0.37102	-462	5.938	+18	11.546	16.144
29.644	0.0780	0.37381	-363	5.926	+55	11.806	15.919
30.642	0.0807	+0.37656	-184	+5.913	+80	-12.062	+15.689
31.639	0.0835	0.37928	+ 37	5.900	+85	12.315	15.454
Febr. 1.636	0.0862	0.38196	+252	5.887	+69	12.564	15.214
2.633	0.0889	0.38462	+409	5.874	+36	12.808	14.970
3.631	0.0916	0.38724	+476	5.861	- 4	13.048	14.722
4.628	0.0944	0.38983	+447	5.847	-44	13.284	14.469
5.625	0.0971	+0.39239	+337	+5.834	-72	-13.517	+14.211
6.622	0.0998	0.39492	+179	5.821	-83	13.745	13.948
7.620	0.1026	0.39741	+ 9	5.808	-77	13.968	13.682
8.617	0.1053	0.39987	-133	5.795	-56	14.187	13.412
9.614	0.1080	0.40230	-228	5.782	-26	14.402	13.137
10.612	0.1108	0.40470	-263	5.769	+ 7	14.612	12.858

# Reduktionsgrößen 1920

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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>
<b>1920</b>							
<b>Febr.</b> 10.612	0.1108	+0.40470 <sup>237</sup>	-263	+5.769 <sup>12</sup>	+ 7	-14.612 <sup>205</sup>	+12.858 <sup>283</sup>
11.609	0.1135	0.40707 <sup>234</sup>	-245	5.757 <sup>13</sup>	+36	14.817 <sup>201</sup>	12.575 <sup>286</sup>
12.606	0.1162	0.40941 <sup>230</sup>	-182	5.744 <sup>12</sup>	+58	15.018 <sup>196</sup>	12.289 <sup>289</sup>
13.603	0.1190	0.41171 <sup>227</sup>	- 88	5.732 <sup>13</sup>	+70	15.214 <sup>191</sup>	12.000 <sup>293</sup>
14.601	0.1217	0.41398 <sup>224</sup>	+ 17	5.719 <sup>12</sup>	+71	15.405 <sup>186</sup>	11.707 <sup>297</sup>
15.598	0.1244	0.41622 <sup>221</sup>	+122	5.707 <sup>12</sup>	+60	15.591 <sup>182</sup>	11.410 <sup>301</sup>
16.595	0.1271	+0.41843 <sup>218</sup>	+207	+5.695 <sup>11</sup>	+39	-15.773 <sup>177</sup>	+11.109 <sup>304</sup>
17.592	0.1299	0.42061 <sup>216</sup>	+251	5.684 <sup>11</sup>	+11	15.950 <sup>171</sup>	10.805 <sup>307</sup>
18.590	0.1326	0.42277 <sup>212</sup>	+240	5.673 <sup>10</sup>	-23	16.121 <sup>167</sup>	10.498 <sup>310</sup>
19.587	0.1353	0.42489 <sup>209</sup>	+166	5.663 <sup>10</sup>	-53	16.288 <sup>161</sup>	10.188 <sup>313</sup>
20.584	0.1381	0.42698 <sup>206</sup>	+ 38	5.653 <sup>9</sup>	-73	16.449 <sup>157</sup>	9.875 <sup>316</sup>
21.581	0.1408	0.42904 <sup>204</sup>	-124	5.644 <sup>9</sup>	-78	16.606 <sup>151</sup>	9.559 <sup>319</sup>
22.579	0.1435	+0.43108 <sup>202</sup>	-286	+5.635 <sup>9</sup>	-66	-16.757 <sup>146</sup>	+ 9.240 <sup>321</sup>
23.576	0.1463	0.43310 <sup>199</sup>	-402	5.626 <sup>9</sup>	-38	16.903 <sup>140</sup>	8.919 <sup>323</sup>
24.573	0.1490	0.43509 <sup>197</sup>	-442	5.617 <sup>9</sup>	+ 1	17.043 <sup>136</sup>	8.596 <sup>327</sup>
25.571	0.1517	0.43706 <sup>194</sup>	-386	5.608 <sup>8</sup>	+41	17.179 <sup>130</sup>	8.269 <sup>329</sup>
26.568	0.1544	0.43900 <sup>192</sup>	-243	5.600 <sup>8</sup>	+72	17.309 <sup>125</sup>	7.940 <sup>331</sup>
27.565	0.1572	0.44092 <sup>190</sup>	- 40	5.592 <sup>7</sup>	+85	17.434 <sup>119</sup>	7.609 <sup>334</sup>
28.562	0.1599	+0.44282 <sup>187</sup>	+176	+5.585 <sup>7</sup>	+77	-17.553 <sup>114</sup>	+ 7.275 <sup>335</sup>
29.560	0.1626	0.44469 <sup>185</sup>	+350	5.578 <sup>5</sup>	+51	17.667 <sup>109</sup>	6.940 <sup>337</sup>
<b>März</b> 1.557	0.1654	0.44654 <sup>184</sup>	+452	5.573 <sup>5</sup>	+13	17.776 <sup>103</sup>	6.603 <sup>339</sup>
2.554	0.1681	0.44838 <sup>182</sup>	+455	5.568 <sup>4</sup>	-27	17.879 <sup>97</sup>	6.264 <sup>341</sup>
3.551	0.1708	0.45020 <sup>179</sup>	+370	5.564 <sup>4</sup>	-62	17.976 <sup>92</sup>	5.923 <sup>343</sup>
4.549	0.1736	0.45199 <sup>178</sup>	+224	5.560 <sup>4</sup>	-79	18.068 <sup>86</sup>	5.580 <sup>344</sup>
5.546	0.1763	+0.45377 <sup>176</sup>	+ 54	+5.556 <sup>3</sup>	-81	-18.154 <sup>81</sup>	+ 5.236 <sup>346</sup>
6.543	0.1790	0.45553 <sup>175</sup>	-102	5.553 <sup>2</sup>	-66	18.235 <sup>76</sup>	4.890 <sup>346</sup>
7.541	0.1818	0.45728 <sup>173</sup>	-215	5.551 <sup>2</sup>	-37	18.311 <sup>70</sup>	4.544 <sup>348</sup>
8.538	0.1845	0.45901 <sup>173</sup>	-270	5.549 <sup>1</sup>	- 6	18.381 <sup>64</sup>	4.196 <sup>348</sup>
9.535	0.1872	0.46074 <sup>171</sup>	-268	5.548 <sup>1</sup>	+26	18.445 <sup>58</sup>	3.848 <sup>350</sup>
10.532	0.1899	0.46245 <sup>170</sup>	-217	5.547 <sup>0</sup>	+51	18.503 <sup>53</sup>	3.498 <sup>351</sup>
11.530	0.1927	+0.46415 <sup>168</sup>	-134	+5.547 <sup>0</sup>	+67	-18.556 <sup>48</sup>	+ 3.147 <sup>352</sup>
12.527	0.1954	0.46583 <sup>168</sup>	- 30	5.547 <sup>2</sup>	+72	18.604 <sup>42</sup>	2.795 <sup>352</sup>
13.524	0.1981	0.46751 <sup>167</sup>	+ 75	5.549 <sup>2</sup>	+65	18.646 <sup>35</sup>	2.443 <sup>352</sup>
14.521	0.2009	0.46918 <sup>167</sup>	+164	5.551 <sup>3</sup>	+48	18.681 <sup>30</sup>	2.091 <sup>353</sup>
15.519	0.2036	0.47085 <sup>166</sup>	+225	5.554 <sup>3</sup>	+23	18.711 <sup>25</sup>	1.738 <sup>354</sup>
16.516	0.2063	0.47251 <sup>165</sup>	+235	5.557 <sup>4</sup>	-10	18.736 <sup>19</sup>	1.384 <sup>354</sup>
17.513	0.2091	+0.47416 <sup>164</sup>	+189	+5.561 <sup>4</sup>	-41	-18.755 <sup>14</sup>	+ 1.030 <sup>354</sup>
18.510	0.2118	0.47580 <sup>165</sup>	+ 87	5.565 <sup>6</sup>	-65	18.769 <sup>8</sup>	0.676 <sup>354</sup>
19.508	0.2145	0.47745 <sup>165</sup>	- 58	5.571 <sup>6</sup>	-78	18.777 <sup>2</sup>	+ 0.322 <sup>354</sup>
20.505	0.2172	0.47910 <sup>165</sup>	-216	5.577 <sup>7</sup>	-74	18.779 <sup>3</sup>	- 0.032 <sup>353</sup>
21.502	0.2200	0.48075 <sup>165</sup>	-348	5.584 <sup>7</sup>	-52	18.776 <sup>8</sup>	0.385 <sup>353</sup>
22.500	0.2227	0.48240	-416	5.591	-17	18.768	0.738

Mittlere Zeit Greenwich	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1920							
März 22.500	0.2227	+0.48240 <sub>165</sub>	-416	+5.591 <sub>8</sub>	-17	-18.768 <sub>15</sub>	-0.738 <sub>353</sub>
23.497	0.2254	0.48405 <sub>165</sub>	-395	5.599 <sub>9</sub>	+23	18.753 <sub>20</sub>	1.091 <sub>352</sub>
24.494	0.2282	0.48570 <sub>166</sub>	-283	5.608 <sub>9</sub>	+58	18.733 <sub>26</sub>	1.443 <sub>352</sub>
25.491	0.2309	0.48736 <sub>166</sub>	-99	5.617 <sub>10</sub>	+82	18.707 <sub>31</sub>	1.795 <sub>351</sub>
26.489	0.2336	0.48902 <sub>166</sub>	+114	5.627 <sub>11</sub>	+83	18.676 <sub>37</sub>	2.146 <sub>351</sub>
27.486	0.2364	0.49068 <sub>167</sub>	+309	5.638 <sub>11</sub>	+64	18.639 <sub>42</sub>	2.497 <sub>349</sub>
28.483	0.2391	+0.49235 <sub>168</sub>	+442	+5.649 <sub>12</sub>	+29	-18.597 <sub>47</sub>	-2.846 <sub>348</sub>
29.480	0.2418	0.49403 <sub>169</sub>	+479	5.661 <sub>13</sub>	-10	18.550 <sub>54</sub>	3.194 <sub>346</sub>
30.478	0.2446	0.49572 <sub>170</sub>	+421	5.674 <sub>13</sub>	-49	18.496 <sub>59</sub>	3.540 <sub>346</sub>
31.475	0.2473	0.49742 <sub>171</sub>	+290	5.687 <sub>14</sub>	-74	18.437 <sub>63</sub>	3.886 <sub>345</sub>
April 1.472	0.2500	0.49913 <sub>172</sub>	+120	5.701 <sub>14</sub>	-83	18.374 <sub>69</sub>	4.231 <sub>346</sub>
2.470	0.2527	0.50085 <sub>174</sub>	-49	5.715 <sub>15</sub>	-73	18.305 <sub>75</sub>	4.574 <sub>341</sub>
3.467	0.2555	+0.50259 <sub>175</sub>	-185	+5.730 <sub>15</sub>	-50	-18.230 <sub>80</sub>	-4.915 <sub>340</sub>
4.464	0.2582	0.50434 <sub>175</sub>	-264	5.745 <sub>16</sub>	-18	18.150 <sub>85</sub>	5.255 <sub>338</sub>
5.461	0.2609	0.50609 <sub>177</sub>	-284	5.761 <sub>17</sub>	+15	18.065 <sub>91</sub>	5.593 <sub>336</sub>
6.459	0.2637	0.50786 <sub>180</sub>	-248	5.778 <sub>17</sub>	+43	17.974 <sub>96</sub>	5.929 <sub>334</sub>
7.456	0.2664	0.50966 <sub>182</sub>	-173	5.795 <sub>17</sub>	+63	17.878 <sub>101</sub>	6.263 <sub>333</sub>
8.453	0.2691	0.51148 <sub>183</sub>	-74	5.812 <sub>18</sub>	+72	17.777 <sub>106</sub>	6.596 <sub>330</sub>
9.450	0.2719	+0.51331 <sub>185</sub>	+29	+5.830 <sub>19</sub>	+69	-17.671 <sub>111</sub>	-6.926 <sub>328</sub>
10.448	0.2746	0.51516 <sub>187</sub>	+125	5.849 <sub>19</sub>	+55	17.560 <sub>115</sub>	7.254 <sub>325</sub>
11.445	0.2773	0.51703 <sub>188</sub>	+191	5.868 <sub>20</sub>	+32	17.445 <sub>121</sub>	7.579 <sub>323</sub>
12.442	0.2800	0.51891 <sub>191</sub>	+217	5.888 <sub>20</sub>	+3	17.324 <sub>126</sub>	7.902 <sub>321</sub>
13.440	0.2828	0.52082 <sub>193</sub>	+191	5.908 <sub>20</sub>	-29	17.198 <sub>131</sub>	8.223 <sub>318</sub>
14.437	0.2855	0.52275 <sub>195</sub>	+107	5.928 <sub>21</sub>	-56	17.067 <sub>136</sub>	8.541 <sub>316</sub>
15.434	0.2882	+0.52470 <sub>197</sub>	-24	+5.949 <sub>21</sub>	-74	-16.931 <sub>141</sub>	-8.857 <sub>313</sub>
16.431	0.2910	0.52667 <sub>199</sub>	-177	5.970 <sub>21</sub>	-77	16.790 <sub>145</sub>	9.170 <sub>310</sub>
17.429	0.2937	0.52866 <sub>202</sub>	-318	5.991 <sub>22</sub>	-62	16.645 <sub>151</sub>	9.480 <sub>307</sub>
18.426	0.2964	0.53068 <sub>204</sub>	-413	6.013 <sub>23</sub>	-33	16.494 <sub>155</sub>	9.787 <sub>304</sub>
19.423	0.2992	0.53272 <sub>207</sub>	-422	6.036 <sub>22</sub>	+7	16.339 <sub>160</sub>	10.091 <sub>301</sub>
20.420	0.3019	0.53479 <sub>209</sub>	-338	6.058 <sub>23</sub>	+45	16.179 <sub>164</sub>	10.392 <sub>297</sub>
21.418	0.3046	+0.53688 <sub>212</sub>	-173	+6.081 <sub>23</sub>	+73	-16.015 <sub>168</sub>	-10.689 <sub>295</sub>
22.415	0.3073	0.53900 <sub>214</sub>	+41	6.104 <sub>24</sub>	+83	15.847 <sub>173</sub>	10.984 <sub>292</sub>
23.412	0.3101	0.54114 <sub>217</sub>	+257	6.128 <sub>23</sub>	+73	15.674 <sub>178</sub>	11.276 <sub>288</sub>
24.409	0.3128	0.54331 <sub>219</sub>	+423	6.151 <sub>24</sub>	+45	15.496 <sub>182</sub>	11.564 <sub>284</sub>
25.407	0.3155	0.54550 <sub>222</sub>	+503	6.175 <sub>24</sub>	+7	15.314 <sub>186</sub>	11.848 <sub>281</sub>
26.404	0.3183	0.54772 <sub>225</sub>	+483	6.199 <sub>24</sub>	-35	15.128 <sub>190</sub>	12.129 <sub>277</sub>
27.401	0.3210	+0.54997 <sub>228</sub>	+376	+6.223 <sub>24</sub>	-65	-14.938 <sub>195</sub>	-12.406 <sub>274</sub>
28.399	0.3237	0.55225 <sub>230</sub>	+213	6.247 <sub>24</sub>	-81	14.743 <sub>199</sub>	12.680 <sub>270</sub>
29.396	0.3265	0.55455 <sub>233</sub>	+32	6.271 <sub>25</sub>	-78	14.544 <sub>203</sub>	12.950 <sub>265</sub>
30.393	0.3292	0.55688 <sub>236</sub>	-126	6.296 <sub>25</sub>	-60	14.341 <sub>207</sub>	13.215 <sub>262</sub>
Mai 1.390	0.3319	0.55924 <sub>239</sub>	-232	6.321 <sub>25</sub>	-31	14.134 <sub>211</sub>	13.477 <sub>258</sub>
2.388	0.3347	0.56163	-275	6.346	+4	13.923	13.735



# Reduktionsgrößen 1920

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für 12<sup>b</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>	
<b>1920</b>								
<b>Mai</b>	2.388	0.3347	+0.56163 <sup>241</sup>	-275	+6.346 <sup>25</sup>	+ 4	-13.923 <sup>214</sup>	-13.735 <sup>254</sup>
	3.385	0.3374	0.56404 <sup>245</sup>	-261	6.371 <sup>25</sup>	+33	13.709 <sup>218</sup>	13.989 <sup>250</sup>
	4.382	0.3401	0.56649 <sup>247</sup>	-199	6.396 <sup>24</sup>	+56	13.491 <sup>222</sup>	14.239 <sup>246</sup>
	5.379	0.3428	0.56896 <sup>250</sup>	-107	6.420 <sup>25</sup>	+70	13.269 <sup>226</sup>	14.485 <sup>242</sup>
	6.377	0.3456	0.57146 <sup>253</sup>	- 5	6.445 <sup>24</sup>	+71	13.043 <sup>229</sup>	14.727 <sup>237</sup>
	7.374	0.3483	0.57399 <sup>255</sup>	+ 93	6.469 <sup>25</sup>	+61	12.814 <sup>233</sup>	14.964 <sup>233</sup>
	8.371	0.3510	+0.57654 <sup>258</sup>	+169	+6.494 <sup>25</sup>	+42	-12.581 <sup>236</sup>	-15.197 <sup>228</sup>
	9.369	0.3538	0.57912 <sup>261</sup>	+206	6.519 <sup>25</sup>	+14	12.345 <sup>240</sup>	15.425 <sup>224</sup>
	10.366	0.3565	0.58173 <sup>264</sup>	+194	6.544 <sup>24</sup>	-18	12.105 <sup>243</sup>	15.649 <sup>220</sup>
	11.363	0.3592	0.58437 <sup>266</sup>	+127	6.568 <sup>24</sup>	-46	11.862 <sup>246</sup>	15.869 <sup>215</sup>
	12.360	0.3620	0.58703 <sup>269</sup>	+ 9	6.592 <sup>24</sup>	-69	11.616 <sup>250</sup>	16.084 <sup>210</sup>
	13.358	0.3647	0.58972 <sup>271</sup>	-144	6.616 <sup>24</sup>	-78	11.366 <sup>253</sup>	16.294 <sup>206</sup>
	14.355	0.3674	+0.59243 <sup>274</sup>	-299	+6.640 <sup>24</sup>	-71	-11.113 <sup>255</sup>	-16.500 <sup>201</sup>
	15.352	0.3701	0.59517 <sup>277</sup>	-416	6.664 <sup>24</sup>	-46	10.858 <sup>258</sup>	16.701 <sup>196</sup>
	16.349	0.3729	0.59794 <sup>279</sup>	-461	6.688 <sup>23</sup>	-10	10.600 <sup>261</sup>	16.897 <sup>191</sup>
	17.347	0.3756	0.60073 <sup>282</sup>	-415	6.711 <sup>23</sup>	+30	10.339 <sup>264</sup>	17.088 <sup>186</sup>
	18.344	0.3783	0.60355 <sup>284</sup>	-273	6.734 <sup>22</sup>	+63	10.075 <sup>267</sup>	17.274 <sup>181</sup>
	19.341	0.3811	0.60639 <sup>287</sup>	- 66	6.756 <sup>23</sup>	+81	9.808 <sup>270</sup>	17.455 <sup>177</sup>
	20.339	0.3838	+0.60926 <sup>289</sup>	+162	+6.779 <sup>22</sup>	+81	- 9.538 <sup>272</sup>	-17.632 <sup>172</sup>
	21.336	0.3865	0.61215 <sup>291</sup>	+365	6.801 <sup>22</sup>	+58	9.266 <sup>275</sup>	17.804 <sup>167</sup>
	22.333	0.3893	0.61506 <sup>294</sup>	+493	6.823 <sup>21</sup>	+22	8.991 <sup>277</sup>	17.971 <sup>161</sup>
	23.330	0.3920	0.61800 <sup>296</sup>	+523	6.844 <sup>21</sup>	-18	8.714 <sup>279</sup>	18.132 <sup>156</sup>
	24.328	0.3947	0.62096 <sup>298</sup>	+454	6.865 <sup>21</sup>	-54	8.435 <sup>281</sup>	18.288 <sup>151</sup>
	25.325	0.3975	0.62394 <sup>300</sup>	+310	6.886 <sup>20</sup>	-76	8.154 <sup>284</sup>	18.439 <sup>146</sup>
	26.322	0.4002	+0.62694 <sup>302</sup>	+132	+6.906 <sup>20</sup>	-81	- 7.870 <sup>286</sup>	-18.585 <sup>141</sup>
	27.319	0.4029	0.62996 <sup>305</sup>	- 41	6.926 <sup>20</sup>	-69	7.584 <sup>288</sup>	18.726 <sup>136</sup>
	28.317	0.4056	0.63301 <sup>306</sup>	-173	6.946 <sup>19</sup>	-43	7.296 <sup>289</sup>	18.862 <sup>130</sup>
	29.314	0.4084	0.63607 <sup>308</sup>	-246	6.965 <sup>19</sup>	-11	7.007 <sup>292</sup>	18.992 <sup>124</sup>
	30.311	0.4111	0.63915 <sup>310</sup>	-255	6.984 <sup>18</sup>	+22	6.715 <sup>294</sup>	19.116 <sup>119</sup>
	31.308	0.4138	0.64225 <sup>312</sup>	-207	7.002 <sup>18</sup>	+48	6.421 <sup>295</sup>	19.235 <sup>114</sup>
<b>Juni</b>	1.306	0.4166	+0.64537 <sup>314</sup>	-127	+7.020 <sup>17</sup>	+64	- 6.126 <sup>297</sup>	-19.349 <sup>109</sup>
	2.303	0.4193	0.64851 <sup>315</sup>	- 26	7.037 <sup>17</sup>	+71	5.829 <sup>298</sup>	19.458 <sup>103</sup>
	3.300	0.4220	0.65166 <sup>316</sup>	+ 74	7.054 <sup>16</sup>	+66	5.531 <sup>299</sup>	19.561 <sup>98</sup>
	4.298	0.4248	0.65482 <sup>317</sup>	+158	7.070 <sup>15</sup>	+51	5.232 <sup>301</sup>	19.659 <sup>92</sup>
	5.295	0.4275	0.65799 <sup>318</sup>	+208	7.085 <sup>15</sup>	+26	4.931 <sup>303</sup>	19.751 <sup>87</sup>
	6.292	0.4302	0.66117 <sup>320</sup>	+215	7.100 <sup>15</sup>	- 4	4.628 <sup>304</sup>	19.838 <sup>82</sup>
	7.289	0.4329	+0.66437 <sup>321</sup>	+164	+7.115 <sup>15</sup>	-34	- 4.324 <sup>304</sup>	-19.920 <sup>76</sup>
	8.287	0.4357	0.66758 <sup>322</sup>	+ 58	7.130 <sup>13</sup>	-59	4.020 <sup>306</sup>	19.996 <sup>70</sup>
	9.284	0.4384	0.67080 <sup>324</sup>	- 92	7.143 <sup>13</sup>	-74	3.714 <sup>307</sup>	20.066 <sup>65</sup>
	10.281	0.4411	0.67404 <sup>325</sup>	-254	7.156 <sup>12</sup>	-75	3.407 <sup>308</sup>	20.131 <sup>58</sup>
	11.278	0.4439	0.67729 <sup>325</sup>	-398	7.168 <sup>12</sup>	-57	3.099 <sup>308</sup>	20.189 <sup>53</sup>
	12.276	0.4466	0.68054	-484	7.180	-25	2.791	20.242

Mittlere Zeit Greenwich		<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1920								
Juni	12.276	0.4466	+0.68054	-484	+7.180	-25	-2.791	-20.242
			<sub>326</sub>		<sub>II</sub>		<sub>309</sub>	<sub>48</sub>
	13.273	0.4493	0.68380	-483	7.191	+13	2.482	20.290
			<sub>327</sub>		<sub>II</sub>		<sub>310</sub>	<sub>43</sub>
	14.270	0.4521	0.68707	-384	7.202	+50	2.172	20.333
			<sub>327</sub>		<sub>10</sub>		<sub>310</sub>	<sub>36</sub>
	15.268	0.4548	0.69034	-201	7.212	+75	1.862	20.369
			<sub>328</sub>		<sub>9</sub>		<sub>311</sub>	<sub>31</sub>
	16.265	0.4575	0.69362	+29	7.221	+83	1.551	20.400
			<sub>328</sub>		<sub>9</sub>		<sub>311</sub>	<sub>25</sub>
	17.262	0.4603	0.69690	+253	7.230	+70	1.240	20.425
			<sub>329</sub>		<sub>8</sub>		<sub>312</sub>	<sub>20</sub>
	18.259	0.4630	+0.70019	+425	+7.238	+39	-0.928	-20.445
			<sub>328</sub>		<sub>8</sub>		<sub>311</sub>	<sub>13</sub>
	19.257	0.4657	0.70347	+507	7.246	-1	0.617	20.458
			<sub>329</sub>		<sub>7</sub>		<sub>312</sub>	<sub>8</sub>
	20.254	0.4684	0.70676	+488	7.253	-41	-0.305	20.466
			<sub>329</sub>		<sub>6</sub>		<sub>312</sub>	<sub>3</sub>
	21.251	0.4712	0.71005	+382	7.259	-70	+0.007	20.469
			<sub>329</sub>		<sub>6</sub>		<sub>312</sub>	<sub>2</sub>
	22.248	0.4739	0.71334	+220	7.265	-83	0.319	20.467
			<sub>329</sub>		<sub>5</sub>		<sub>311</sub>	<sub>8</sub>
	23.246	0.4766	0.71663	+46	7.270	-77	0.630	20.459
			<sub>328</sub>		<sub>5</sub>		<sub>312</sub>	<sub>14</sub>
	24.243	0.4794	+0.71991	-106	+7.275	-56	+0.942	-20.445
			<sub>328</sub>		<sub>4</sub>		<sub>311</sub>	<sub>20</sub>
	25.240	0.4821	0.72319	-200	7.279	-25	1.253	20.425
		<sub>328</sub>		<sub>3</sub>		<sub>311</sub>	<sub>26</sub>	
26.237	0.4848	0.72647	-234	7.282	+10	1.564	20.399	
		<sub>327</sub>		<sub>3</sub>		<sub>310</sub>	<sub>31</sub>	
27.235	0.4876	0.72974	-208	7.285	+39	1.874	20.368	
		<sub>327</sub>		<sub>2</sub>		<sub>310</sub>	<sub>36</sub>	
28.232	0.4903	0.73301	-138	7.287	+59	2.184	20.332	
		<sub>326</sub>		<sub>2</sub>		<sub>310</sub>	<sub>43</sub>	
29.229	0.4930	0.73627	-42	7.289	+70	2.494	20.289	
		<sub>325</sub>		<sub>I</sub>		<sub>308</sub>	<sub>48</sub>	
30.227	0.4957	+0.73952	+57	+7.290	+69	+2.802	-20.241	
		<sub>323</sub>		<sub>0</sub>		<sub>307</sub>	<sub>53</sub>	
Juli	1.224	0.4985	0.74275	+152	7.290	+57	3.109	20.188
			<sub>323</sub>		<sub>0</sub>		<sub>307</sub>	<sub>59</sub>
	2.221	0.5012	0.74598	+217	7.290	+35	3.416	20.129
			<sub>323</sub>		<sub>I</sub>		<sub>306</sub>	<sub>65</sub>
	3.218	0.5039	0.74921	+240	7.289	+7	3.722	20.064
			<sub>322</sub>		<sub>1</sub>		<sub>305</sub>	<sub>70</sub>
	4.216	0.5067	0.75243	+213	7.288	-21	4.027	19.994
			<sub>321</sub>		<sub>2</sub>		<sub>304</sub>	<sub>75</sub>
	5.213	0.5094	0.75564	+125	7.286	-49	4.331	19.919
			<sub>320</sub>		<sub>2</sub>		<sub>303</sub>	<sub>81</sub>
	6.210	0.5121	+0.75884	-9	+7.284	-68	+4.634	-19.838
			<sub>318</sub>		<sub>3</sub>		<sub>301</sub>	<sub>87</sub>
	7.207	0.5149	0.76202	-175	7.281	-74	4.935	19.751
			<sub>316</sub>		<sub>4</sub>		<sub>300</sub>	<sub>92</sub>
	8.205	0.5176	0.76518	-340	7.277	-65	5.235	19.659
			<sub>315</sub>		<sub>4</sub>		<sub>298</sub>	<sub>97</sub>
	9.202	0.5203	0.76833	-463	7.273	-39	5.533	19.562
			<sub>314</sub>		<sub>4</sub>		<sub>297</sub>	<sub>103</sub>
	10.199	0.5231	0.77147	-509	7.269	-3	5.830	19.459
			<sub>312</sub>		<sub>5</sub>		<sub>296</sub>	<sub>109</sub>
	11.197	0.5258	0.77459	-461	7.264	+36	6.126	19.350
			<sub>310</sub>		<sub>5</sub>		<sub>294</sub>	<sub>114</sub>
	12.194	0.5285	+0.77769	-317	+7.259	+65	+6.420	-19.236
			<sub>308</sub>		<sub>6</sub>		<sub>292</sub>	<sub>119</sub>
	13.191	0.5312	0.78077	-108	7.253	+81	6.712	19.117
			<sub>307</sub>		<sub>6</sub>		<sub>290</sub>	<sub>123</sub>
	14.188	0.5340	0.78384	+120	7.247	+77	7.002	18.994
		<sub>304</sub>		<sub>7</sub>		<sub>288</sub>	<sub>129</sub>	
15.186	0.5367	0.78688	+318	7.240	+53	7.290	18.865	
		<sub>303</sub>		<sub>7</sub>		<sub>287</sub>	<sub>134</sub>	
16.183	0.5394	0.78991	+447	7.233	+17	7.577	18.731	
		<sub>301</sub>		<sub>8</sub>		<sub>284</sub>	<sub>140</sub>	
17.180	0.5422	0.79292	+476	7.225	-25	7.861	18.591	
		<sub>298</sub>		<sub>8</sub>		<sub>282</sub>	<sub>145</sub>	
18.177	0.5449	+0.79590	+410	+7.217	-58	+8.143	-18.446	
		<sub>296</sub>		<sub>8</sub>		<sub>280</sub>	<sub>151</sub>	
19.175	0.5476	0.79886	+275	7.209	-78	8.423	18.295	
		<sub>294</sub>		<sub>9</sub>		<sub>278</sub>	<sub>155</sub>	
20.172	0.5504	0.80180	+105	7.200	-80	8.701	18.140	
		<sub>291</sub>		<sub>9</sub>		<sub>275</sub>	<sub>160</sub>	
21.169	0.5531	0.80471	-48	7.191	-66	8.976	17.980	
		<sub>290</sub>		<sub>9</sub>		<sub>273</sub>	<sub>164</sub>	
22.167	0.5558	0.80761	-161	7.182	-37	9.249	17.816	
		<sub>288</sub>		<sub>10</sub>		<sub>270</sub>	<sub>170</sub>	
23.164	0.5585	0.81049	-216	7.172	-4	9.519	17.646	

# Reduktionsgrößen 1920

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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>	
1920								
Juli	23.164	0.5585	+0.81049 <sub>286</sub>	-216	+7.172	- 4	+ 9.519 <sub>268</sub>	-17.646 <sub>175</sub>
	24.161	0.5613	0.81335 <sub>284</sub>	-208	7.161	+28	9.787 <sub>265</sub>	17.471 <sub>180</sub>
	25.158	0.5640	0.81619 <sub>281</sub>	-150	7.150	+53	10.052 <sub>263</sub>	17.291 <sub>185</sub>
	26.156	0.5667	0.81900 <sub>278</sub>	- 62	7.139	+67	10.315 <sub>260</sub>	17.106 <sub>189</sub>
	27.153	0.5695	0.82178 <sub>275</sub>	+ 41	7.128	+71	10.575 <sub>256</sub>	16.917 <sub>194</sub>
	28.150	0.5722	0.82453 <sub>272</sub>	+138	7.117	+61	10.831 <sub>253</sub>	16.723 <sub>199</sub>
	29.147	0.5749	+0.82725 <sub>270</sub>	+215	+7.105	+44	+11.084 <sub>251</sub>	-16.524 <sub>204</sub>
	30.145	0.5777	0.82995 <sub>267</sub>	+254	7.093	+19	11.335 <sub>248</sub>	16.320 <sub>208</sub>
	31.142	0.5804	0.83262 <sub>265</sub>	+248	7.081	-10	11.583 <sub>244</sub>	16.112 <sub>212</sub>
	Aug.	1.139	0.5831	0.83527 <sub>262</sub>	+188	7.070	-39	11.827 <sub>242</sub>
2.136		0.5859	0.83789 <sub>259</sub>	+ 74	7.058	-62	12.069 <sub>238</sub>	15.683 <sub>221</sub>
3.134		0.5886	0.84048 <sub>257</sub>	- 81	7.046	-73	12.307 <sub>235</sub>	15.462 <sub>226</sub>
4.131		0.5913	+0.84305 <sub>254</sub>	-250	+7.034	-70	+12.542 <sub>231</sub>	-15.236 <sub>230</sub>
5.128		0.5940	0.84559 <sub>251</sub>	-395	7.022	-50	12.773 <sub>228</sub>	15.006 <sub>235</sub>
6.126		0.5968	0.84810 <sub>249</sub>	-480	7.010	-18	13.001 <sub>224</sub>	14.771 <sub>239</sub>
7.123		0.5995	0.85059 <sub>245</sub>	-482	6.997	+19	13.225 <sub>221</sub>	14.532 <sub>243</sub>
8.120		0.6022	0.85304 <sub>243</sub>	-388	6.985	+55	13.446 <sub>217</sub>	14.289 <sub>246</sub>
9.117		0.6050	0.85547 <sub>240</sub>	-212	6.972	+77	13.663 <sub>213</sub>	14.043 <sub>250</sub>
10.115		0.6077	+0.85787 <sub>237</sub>	+ 4	+6.959	+81	+13.876 <sub>209</sub>	-13.793 <sub>255</sub>
11.112	0.6104	0.86024 <sub>235</sub>	+212	6.946	+65	14.085 <sub>205</sub>	13.538 <sub>259</sub>	
12.109	0.6132	0.86259 <sub>232</sub>	+370	6.933	+31	14.290 <sub>202</sub>	13.279 <sub>262</sub>	
13.106	0.6159	0.86491 <sub>228</sub>	+437	6.921	- 8	14.492 <sub>198</sub>	13.017 <sub>265</sub>	
14.104	0.6186	0.86719 <sub>226</sub>	+411	6.909	-45	14.690 <sub>193</sub>	12.752 <sub>270</sub>	
15.101	0.6213	0.86945 <sub>223</sub>	+301	6.897	-73	14.883 <sub>190</sub>	12.482 <sub>273</sub>	
16.098	0.6241	+0.87168 <sub>220</sub>	+145	+6.884	-81	+15.073 <sub>185</sub>	-12.209 <sub>277</sub>	
17.096	0.6268	0.87388 <sub>218</sub>	- 13	6.872	-72	15.258 <sub>182</sub>	11.932 <sub>280</sub>	
18.093	0.6295	0.87606 <sub>215</sub>	-140	6.860	-49	15.440 <sub>177</sub>	11.652 <sub>284</sub>	
19.090	0.6323	0.87821 <sub>213</sub>	-212	6.849	-16	15.617 <sub>173</sub>	11.368 <sub>287</sub>	
20.087	0.6350	0.88034 <sub>211</sub>	-222	6.838	+16	15.790 <sub>168</sub>	11.081 <sub>290</sub>	
21.085	0.6377	0.88245 <sub>208</sub>	-177	6.827	+45	15.958 <sub>163</sub>	10.791 <sub>293</sub>	
22.082	0.6405	+0.88453 <sub>205</sub>	- 92	+6.816	+64	+16.121 <sub>159</sub>	-10.498 <sub>297</sub>	
23.079	0.6432	0.88658 <sub>203</sub>	+ 9	6.806	+71	16.280 <sub>155</sub>	10.201 <sub>299</sub>	
24.076	0.6459	0.88861 <sub>200</sub>	+109	6.796	+66	16.435 <sub>151</sub>	9.902 <sub>302</sub>	
25.074	0.6486	0.89061 <sub>198</sub>	+196	6.786	+52	16.586 <sub>146</sub>	9.600 <sub>305</sub>	
26.071	0.6514	0.89259 <sub>195</sub>	+252	6.776	+28	16.732 <sub>141</sub>	9.295 <sub>308</sub>	
27.068	0.6541	0.89454 <sub>193</sub>	+267	6.767	0	16.873 <sub>136</sub>	8.987 <sub>311</sub>	
28.066	0.6568	+0.89647 <sub>191</sub>	+229	+6.758	-28	+17.009 <sub>131</sub>	- 8.676 <sub>313</sub>	
29.063	0.6596	0.89838 <sub>189</sub>	+139	6.749	-55	17.140 <sub>127</sub>	8.363 <sub>316</sub>	
30.060	0.6623	0.90027 <sub>187</sub>	+ 4	6.741	-72	17.267 <sub>121</sub>	8.047 <sub>318</sub>	
31.057	0.6650	0.90214 <sub>185</sub>	-157	6.733	-74	17.388 <sub>117</sub>	7.729 <sub>320</sub>	
Sept.	1.055	0.6678	0.90399 <sub>183</sub>	-313	6.725	-61	17.505 <sub>113</sub>	7.409 <sub>323</sub>
	2.052	0.6705	0.90582	-427	6.718	-35	17.618	7.086

Mittlere Zeit Greenwich	<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>
1920							
Sept. 2.052	0.6705	+0.90582 <sub>181</sub>	-427	+6.718 <sub>6</sub>	-35	+17.618 <sub>107</sub>	-7.086 <sub>325</sub>
3.049	0.6732	0.90763 <sub>179</sub>	-463	6.712 <sub>6</sub>	+2	17.725 <sub>102</sub>	6.761 <sub>326</sub>
4.046	0.6760	0.90942 <sub>178</sub>	-410	6.706 <sub>5</sub>	+40	17.827 <sub>97</sub>	6.435 <sub>329</sub>
5.044	0.6787	0.91120 <sub>176</sub>	-271	6.701 <sub>5</sub>	+69	17.924 <sub>92</sub>	6.106 <sub>331</sub>
6.041	0.6814	0.91296 <sub>174</sub>	-74	6.696 <sub>5</sub>	+81	18.016 <sub>87</sub>	5.775 <sub>333</sub>
7.038	0.6841	0.91470 <sub>172</sub>	+135	6.691 <sub>4</sub>	+73	18.103 <sub>82</sub>	5.442 <sub>334</sub>
8.035	0.6869	+0.91642 <sub>171</sub>	+310	+6.687 <sub>4</sub>	+48	+18.185 <sub>77</sub>	-5.108 <sub>336</sub>
9.033	0.6896	0.91813 <sub>170</sub>	+408	6.683 <sub>3</sub>	+11	18.262 <sub>72</sub>	4.772 <sub>338</sub>
10.030	0.6923	0.91983 <sub>169</sub>	+413	6.680 <sub>2</sub>	-30	18.334 <sub>66</sub>	4.434 <sub>339</sub>
11.027	0.6951	0.92152 <sub>167</sub>	+329	6.678 <sub>2</sub>	-63	18.400 <sub>60</sub>	4.095 <sub>341</sub>
12.025	0.6978	0.92319 <sub>166</sub>	+185	6.676 <sub>1</sub>	-80	18.460 <sub>56</sub>	3.754 <sub>341</sub>
13.022	0.7005	0.92485 <sub>165</sub>	+24	6.675 <sub>0</sub>	-79	18.516 <sub>51</sub>	3.413 <sub>343</sub>
14.019	0.7033	+0.92650 <sub>164</sub>	-121	+6.675 <sub>0</sub>	-61	+18.567 <sub>45</sub>	-3.070 <sub>343</sub>
15.016	0.7060	0.92814 <sub>164</sub>	-214	6.675 <sub>0</sub>	-29	18.612 <sub>40</sub>	2.727 <sub>345</sub>
16.014	0.7087	0.92978 <sub>163</sub>	-244	6.675 <sub>1</sub>	+4	18.652 <sub>34</sub>	2.382 <sub>346</sub>
17.011	0.7114	0.93141 <sub>163</sub>	-213	6.676 <sub>2</sub>	+35	18.686 <sub>29</sub>	2.036 <sub>346</sub>
18.008	0.7142	0.93304 <sub>162</sub>	-137	6.678 <sub>3</sub>	+58	18.715 <sub>23</sub>	1.690 <sub>348</sub>
19.005	0.7169	0.93466 <sub>161</sub>	-36	6.681 <sub>3</sub>	+70	18.738 <sub>19</sub>	1.342 <sub>348</sub>
20.003	0.7196	+0.93627 <sub>161</sub>	+68	+6.684 <sub>4</sub>	+69	+18.757 <sub>13</sub>	-0.994 <sub>348</sub>
21.000	0.7224	0.93788 <sub>160</sub>	+161	6.688 <sub>4</sub>	+59	18.770 <sub>7</sub>	0.646 <sub>348</sub>
21.997	0.7251	0.93948 <sub>161</sub>	+230	6.692 <sub>5</sub>	+37	18.777 <sub>2</sub>	-0.298 <sub>349</sub>
22.995	0.7278	0.94109 <sub>160</sub>	+257	6.697 <sub>6</sub>	+12	18.779 <sub>4</sub>	+0.051 <sub>349</sub>
23.992	0.7306	0.94269 <sub>160</sub>	+242	6.703 <sub>7</sub>	-16	18.775 <sub>9</sub>	0.400 <sub>349</sub>
24.989	0.7333	0.94429 <sub>161</sub>	+173	6.710 <sub>7</sub>	-45	18.766 <sub>14</sub>	0.749 <sub>349</sub>
25.986	0.7360	+0.94590 <sub>161</sub>	+58	+6.717 <sub>7</sub>	-66	+18.752 <sub>20</sub>	+1.098 <sub>349</sub>
26.984	0.7388	0.94751 <sub>162</sub>	-90	6.724 <sub>8</sub>	-74	18.732 <sub>25</sub>	1.447 <sub>349</sub>
27.981	0.7415	0.94913 <sub>162</sub>	-243	6.732 <sub>9</sub>	-68	18.707 <sub>31</sub>	1.796 <sub>349</sub>
28.978	0.7442	0.95075 <sub>163</sub>	-372	6.741 <sub>9</sub>	-48	18.676 <sub>36</sub>	2.145 <sub>348</sub>
29.975	0.7469	0.95238 <sub>163</sub>	-438	6.750 <sub>10</sub>	-14	18.640 <sub>42</sub>	2.493 <sub>347</sub>
30.973	0.7497	0.95401 <sub>164</sub>	-416	6.760 <sub>11</sub>	+24	18.598 <sub>48</sub>	2.840 <sub>347</sub>
Okt. 1.970	0.7524	+0.95565 <sub>164</sub>	-310	+6.771 <sub>12</sub>	+57	+18.550 <sub>52</sub>	+3.187 <sub>346</sub>
2.967	0.7551	0.95729 <sub>166</sub>	-132	6.783 <sub>12</sub>	+78	18.498 <sub>58</sub>	3.533 <sub>345</sub>
3.964	0.7579	0.95895 <sub>167</sub>	+78	6.795 <sub>13</sub>	+79	18.440 <sub>64</sub>	3.878 <sub>344</sub>
4.962	0.7606	0.96062 <sub>168</sub>	+266	6.808 <sub>13</sub>	+61	18.376 <sub>70</sub>	4.222 <sub>344</sub>
5.959	0.7633	0.96230 <sub>170</sub>	+396	6.821 <sub>14</sub>	+26	18.306 <sub>75</sub>	4.566 <sub>342</sub>
6.956	0.7661	0.96400 <sub>171</sub>	+435	6.835 <sub>14</sub>	-13	18.231 <sub>80</sub>	4.908 <sub>341</sub>
7.954	0.7688	+0.96571 <sub>173</sub>	+379	+6.849 <sub>15</sub>	-50	+18.151 <sub>85</sub>	+5.249 <sub>339</sub>
8.951	0.7715	0.96744 <sub>174</sub>	+249	6.864 <sub>16</sub>	-75	18.066 <sub>91</sub>	5.588 <sub>338</sub>
9.948	0.7742	0.96918 <sub>176</sub>	+83	6.880 <sub>16</sub>	-81	17.975 <sub>96</sub>	5.926 <sub>337</sub>
10.945	0.7770	0.97094 <sub>177</sub>	-77	6.896 <sub>17</sub>	-69	17.879 <sub>102</sub>	6.263 <sub>335</sub>
11.943	0.7797	0.97271 <sub>179</sub>	-198	6.913 <sub>17</sub>	-42	17.777 <sub>107</sub>	6.598 <sub>333</sub>
12.940	0.7824	0.97450	-255	6.930	-10	17.670	6.931

# Reduktionsgrößen 1920

365

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>
<b>1920</b>							
Okt. 12.940	0.7824	+0.97450 <sub>181</sub>	-255	+6.930 <sub>18</sub>	-10	+17.670 <sub>112</sub>	+ 6.931 <sub>331</sub>
13.937	0.7852	0.97631 <sub>184</sub>	-246	6.948 <sub>18</sub>	+23	17.558 <sub>118</sub>	7.262 <sub>329</sub>
14.934	0.7879	0.97815 <sub>185</sub>	-183	6.966 <sub>19</sub>	+50	17.440 <sub>123</sub>	7.591 <sub>327</sub>
15.932	0.7906	0.98000 <sub>187</sub>	- 86	6.985 <sub>19</sub>	+66	17.317 <sub>128</sub>	7.918 <sub>325</sub>
16.929	0.7934	0.98187 <sub>189</sub>	+ 22	7.004 <sub>20</sub>	+70	17.189 <sub>133</sub>	8.243 <sub>323</sub>
17.926	0.7961	0.98376 <sub>192</sub>	+122	7.024 <sub>20</sub>	+63	17.056 <sub>139</sub>	8.566 <sub>320</sub>
18.924	0.7988	+0.98568 <sub>195</sub>	+201	+7.044 <sub>21</sub>	+46	+16.917 <sub>143</sub>	+ 8.886 <sub>318</sub>
19.921	0.8016	0.98763 <sub>197</sub>	+241	7.065 <sub>21</sub>	+23	16.774 <sub>149</sub>	9.204 <sub>315</sub>
20.918	0.8043	0.98960 <sub>199</sub>	+239	7.086 <sub>21</sub>	- 5	16.625 <sub>154</sub>	9.519 <sub>313</sub>
21.915	0.8070	0.99159 <sub>202</sub>	+188	7.107 <sub>21</sub>	-34	16.471 <sub>158</sub>	9.832 <sub>310</sub>
22.913	0.8097	0.99361 <sub>205</sub>	+ 90	7.128 <sub>22</sub>	-58	16.313 <sub>164</sub>	10.142 <sub>306</sub>
23.910	0.8125	0.99566 <sub>208</sub>	- 48	7.150 <sub>22</sub>	-72	16.149 <sub>169</sub>	10.448 <sub>304</sub>
24.907	0.8152	+0.99774 <sub>210</sub>	-202	+7.172 <sub>23</sub>	-72	+15.980 <sub>174</sub>	+10.752 <sub>301</sub>
25.904	0.8179	0.99984 <sub>213</sub>	-340	7.195 <sub>23</sub>	-57	15.806 <sub>179</sub>	11.053 <sub>297</sub>
26.902	0.8207	1.00197 <sub>216</sub>	-427	7.218 <sub>23</sub>	-28	15.627 <sub>183</sub>	11.350 <sub>295</sub>
27.899	0.8234	1.00413 <sub>219</sub>	-441	7.241 <sub>24</sub>	+ 9	15.444 <sub>188</sub>	11.645 <sub>291</sub>
28.896	0.8261	1.00632 <sub>222</sub>	-361	7.265 <sub>24</sub>	+45	15.256 <sub>192</sub>	11.936 <sub>288</sub>
29.894	0.8289	1.00854 <sub>225</sub>	-200	7.289 <sub>25</sub>	+71	15.064 <sub>198</sub>	12.224 <sub>284</sub>
30.891	0.8316	+1.01079 <sub>227</sub>	+ 7	+7.314 <sub>24</sub>	+80	+14.866 <sub>202</sub>	+12.508 <sub>280</sub>
31.888	0.8343	1.01306 <sub>230</sub>	+214	7.338 <sub>24</sub>	+69	14.664 <sub>207</sub>	12.788 <sub>276</sub>
Nov. 1.885	0.8370	1.01536 <sub>234</sub>	+378	7.362 <sub>24</sub>	+41	14.457 <sub>211</sub>	13.064 <sub>273</sub>
2.883	0.8398	1.01770 <sub>237</sub>	+459	7.386 <sub>24</sub>	+ 3	14.246 <sub>216</sub>	13.337 <sub>269</sub>
3.880	0.8425	1.02007 <sub>241</sub>	+440	7.410 <sub>25</sub>	-36	14.030 <sub>220</sub>	13.606 <sub>266</sub>
4.877	0.8452	1.02248 <sub>244</sub>	+335	7.435 <sub>24</sub>	-66	13.810 <sub>224</sub>	13.872 <sub>261</sub>
5.874	0.8480	+1.02492 <sub>247</sub>	+172	+7.459 <sub>25</sub>	-80	+13.586 <sub>229</sub>	+14.133 <sub>256</sub>
6.872	0.8507	1.02739 <sub>250</sub>	- 3	7.484 <sub>25</sub>	-75	13.357 <sub>233</sub>	14.389 <sub>252</sub>
7.869	0.8534	1.02989 <sub>253</sub>	-146	7.509 <sub>25</sub>	-55	13.124 <sub>237</sub>	14.641 <sub>248</sub>
8.866	0.8562	1.03242 <sub>256</sub>	-234	7.534 <sub>24</sub>	-24	12.887 <sub>241</sub>	14.889 <sub>244</sub>
9.863	0.8589	1.03498 <sub>259</sub>	-255	7.558 <sub>25</sub>	+12	12.646 <sub>245</sub>	15.133 <sub>239</sub>
10.861	0.8616	1.03757 <sub>263</sub>	-212	7.583 <sub>24</sub>	+40	12.401 <sub>249</sub>	15.372 <sub>234</sub>
11.858	0.8644	+1.04020 <sub>267</sub>	-126	+7.607 <sub>25</sub>	+61	+12.152 <sub>252</sub>	+15.606 <sub>229</sub>
12.855	0.8671	1.04287 <sub>270</sub>	- 17	7.632 <sub>25</sub>	+71	11.900 <sub>256</sub>	15.835 <sub>225</sub>
13.853	0.8698	1.04557 <sub>272</sub>	+ 87	7.657 <sub>25</sub>	+68	11.644 <sub>261</sub>	16.060 <sub>221</sub>
14.850	0.8725	1.04829 <sub>274</sub>	+174	7.682 <sub>24</sub>	+54	11.383 <sub>264</sub>	16.281 <sub>215</sub>
15.847	0.8753	1.05103 <sub>278</sub>	+228	7.706 <sub>23</sub>	+31	11.119 <sub>268</sub>	16.496 <sub>210</sub>
16.844	0.8780	1.05381 <sub>281</sub>	+239	7.729 <sub>24</sub>	+ 5	10.851 <sub>271</sub>	16.706 <sub>205</sub>
17.842	0.8807	+1.05662 <sub>285</sub>	+204	+7.753 <sub>23</sub>	-24	+10.580 <sub>274</sub>	+16.911 <sub>200</sub>
18.839	0.8835	1.05947 <sub>288</sub>	+116	7.776 <sub>23</sub>	-49	10.306 <sub>277</sub>	17.111 <sub>195</sub>
19.836	0.8862	1.06235 <sub>291</sub>	- 13	7.799 <sub>23</sub>	-67	10.029 <sub>280</sub>	17.306 <sub>190</sub>
20.833	0.8889	1.06526 <sub>293</sub>	-165	7.822 <sub>23</sub>	-73	9.749 <sub>284</sub>	17.496 <sub>184</sub>
21.831	0.8917	1.06819 <sub>296</sub>	-316	7.845 <sub>22</sub>	-64	9.465 <sub>287</sub>	17.680 <sub>179</sub>
22.828	0.8944	1.07115	-429	7.867	-41	9.178	17.859

Mittlere Zeit Greenwich		<i>t</i>	<i>A</i>	<i>A'</i>	<i>B</i>	<i>B'</i>	<i>C</i>	<i>D</i>	
1920									
Nov.	22.828	0.8944	+1.07115 <sub>299</sub>	-429	+7.867 <sub>22</sub>	-41	+9.178 <sub>290</sub>	+17.859 <sub>173</sub>	
	23.825	0.8971	1.07414 <sub>301</sub>	-475	7.889 <sub>22</sub>	-7	8.888 <sub>293</sub>	18.032 <sub>168</sub>	
	24.823	0.8998	1.07715 <sub>304</sub>	-431	7.911 <sub>21</sub>	+31	8.595 <sub>295</sub>	18.200 <sub>162</sub>	
	25.820	0.9026	1.08019 <sub>307</sub>	-296	7.932 <sub>20</sub>	+62	8.300 <sub>298</sub>	18.362 <sub>157</sub>	
	26.817	0.9053	1.08326 <sub>310</sub>	-98	7.952 <sub>20</sub>	+79	8.002 <sub>301</sub>	18.519 <sub>150</sub>	
	27.814	0.9080	1.08636 <sub>312</sub>	+125	7.972 <sub>20</sub>	+77	7.701 <sub>304</sub>	18.669 <sub>145</sub>	
	28.812	0.9108	+1.08948 <sub>314</sub>	+322	+7.992 <sub>20</sub>	+55	+7.397 <sub>305</sub>	+18.814 <sub>140</sub>	
	29.809	0.9135	1.09262 <sub>316</sub>	+447	8.012 <sub>19</sub>	+20	7.092 <sub>307</sub>	18.954 <sub>134</sub>	
	30.806	0.9162	1.09578 <sub>318</sub>	+479	8.031 <sub>18</sub>	-21	6.785 <sub>310</sub>	19.088 <sub>127</sub>	
	Dez.	1.803	0.9190	1.09896 <sub>321</sub>	+414	8.049 <sub>18</sub>	-56	6.475 <sub>313</sub>	19.215 <sub>122</sub>
		2.801	0.9217	1.10217 <sub>323</sub>	+270	8.067 <sub>17</sub>	-76	6.162 <sub>314</sub>	19.337 <sub>115</sub>
		3.798	0.9244	1.10540 <sub>325</sub>	+96	8.084 <sub>16</sub>	-81	5.848 <sub>316</sub>	19.452 <sub>110</sub>
		4.795	0.9272	+1.10865 <sub>327</sub>	-66	+8.100 <sub>16</sub>	-65	+5.532 <sub>318</sub>	+19.562 <sub>103</sub>
		5.793	0.9299	1.11192 <sub>329</sub>	-186	8.116 <sub>15</sub>	-38	5.214 <sub>320</sub>	19.665 <sub>97</sub>
6.790		0.9326	1.11521 <sub>330</sub>	-234	8.131 <sub>15</sub>	-3	4.894 <sub>322</sub>	19.762 <sub>92</sub>	
7.787		0.9353	1.11851 <sub>332</sub>	-218	8.146 <sub>14</sub>	+30	4.572 <sub>323</sub>	19.854 <sub>85</sub>	
8.784		0.9381	1.12183 <sub>333</sub>	-149	8.160 <sub>14</sub>	+54	4.249 <sub>324</sub>	19.939 <sub>79</sub>	
9.782		0.9408	1.12516 <sub>335</sub>	-51	8.174 <sub>13</sub>	+69	3.925 <sub>325</sub>	20.018 <sub>73</sub>	
10.779		0.9435	+1.12851 <sub>336</sub>	+61	+8.187 <sub>12</sub>	+70	+3.600 <sub>327</sub>	+20.091 <sub>66</sub>	
11.776		0.9463	1.13187 <sub>337</sub>	+156	8.199 <sub>11</sub>	+59	3.273 <sub>328</sub>	20.157 <sub>60</sub>	
12.773		0.9490	1.13524 <sub>338</sub>	+222	8.210 <sub>11</sub>	+40	2.945 <sub>329</sub>	20.217 <sub>54</sub>	
13.771		0.9517	1.13862 <sub>339</sub>	+248	8.221 <sub>10</sub>	+16	2.616 <sub>330</sub>	20.271 <sub>47</sub>	
14.768		0.9545	1.14201 <sub>340</sub>	+229	8.231 <sub>9</sub>	-11	2.286 <sub>330</sub>	20.318 <sub>41</sub>	
15.765	0.9572	1.14541 <sub>341</sub>	+158	8.240 <sub>9</sub>	-38	1.956 <sub>331</sub>	20.359 <sub>35</sub>		
16.762	0.9599	+1.14882 <sub>341</sub>	+42	+8.249 <sub>8</sub>	-58	+1.625 <sub>332</sub>	+20.394 <sub>28</sub>		
17.760	0.9626	1.15223 <sub>341</sub>	-112	8.257 <sub>8</sub>	-70	1.293 <sub>332</sub>	20.422 <sub>21</sub>		
18.757	0.9654	1.15564 <sub>342</sub>	-274	8.265 <sub>7</sub>	-68	0.961 <sub>333</sub>	20.443 <sub>15</sub>		
19.754	0.9681	1.15906 <sub>342</sub>	-415	8.272 <sub>6</sub>	-51	0.628 <sub>332</sub>	20.458 <sub>9</sub>		
20.752	0.9708	1.16248 <sub>342</sub>	-496	8.278 <sub>5</sub>	-21	+0.296 <sub>333</sub>	20.467 <sub>3</sub>		
21.749	0.9736	1.16590 <sub>342</sub>	-494	8.283 <sub>5</sub>	+15	-0.037 <sub>333</sub>	20.470 <sub>4</sub>		
22.746	0.9763	+1.16932 <sub>342</sub>	-400	+8.288 <sub>3</sub>	+48	-0.370 <sub>333</sub>	+20.466 <sub>10</sub>		
23.743	0.9790	1.17274 <sub>342</sub>	-226	8.291 <sub>3</sub>	+72	0.703 <sub>333</sub>	20.456 <sub>17</sub>		
24.741	0.9818	1.17616 <sub>342</sub>	-6	8.294 <sub>2</sub>	+80	1.036 <sub>333</sub>	20.439 <sub>23</sub>		
25.738	0.9845	1.17958 <sub>341</sub>	+213	8.296 <sub>2</sub>	+66	1.369 <sub>332</sub>	20.416 <sub>30</sub>		
26.735	0.9872	1.18299 <sub>340</sub>	+382	8.298 <sub>2</sub>	+36	1.701 <sub>331</sub>	20.386 <sub>37</sub>		
27.732	0.9899	1.18639 <sub>340</sub>	+464	8.300 <sub>1</sub>	-3	2.032 <sub>330</sub>	20.349 <sub>42</sub>		
28.730	0.9927	+1.18979 <sub>340</sub>	+446	+8.301 <sub>1</sub>	-42	-2.362 <sub>330</sub>	+20.307 <sub>48</sub>		
29.727	0.9954	1.19319 <sub>339</sub>	+344	8.300 <sub>1</sub>	-70	2.692 <sub>330</sub>	20.259 <sub>55</sub>		
30.724	0.9981	1.19658 <sub>338</sub>	+185	8.299 <sub>2</sub>	-81	3.022 <sub>328</sub>	20.204 <sub>62</sub>		
31.722	1.0009	1.19996 <sub>336</sub>	+19	8.297 <sub>3</sub>	-73	3.350 <sub>328</sub>	20.142 <sub>68</sub>		
32.719	1.0036	1.20332 <sub>333</sub>	-119	8.294 <sub>4</sub>	-51	3.678 <sub>326</sub>	20.074 <sub>75</sub>		
33.716	1.0063	1.20665 <sub>333</sub>	-198	8.290 <sub>4</sub>	-18	4.004 <sub>324</sub>	19.999 <sub>80</sub>		
34.713	1.0091	1.20998	-206	8.286	+18	4.328	19.919		

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		
<b>1920</b>								
<b>Jan.</b>	0.5	+0.159794	-0.890058	-0.386077	-14.498	1.97674	II 45 <sup>b</sup> 9 <sup>m</sup> 9 <sup>s</sup>	
	4.5	0.228345	0.877365	0.380574	14.455	1.97548	II 45 6	
	8.5	0.295761	0.860390	0.373186	14.413	1.97423	II 45 6	
	12.5	0.361726	0.839025	0.363944	14.373	1.97300	II 45 7	
	16.5	0.425913	0.813540	0.352886	14.333	1.97180	II 45 9	
	20.5	+0.487991	-0.783991	-0.340067	-14.295	1.97063	II 45 12	
	24.5	0.547636	0.750529	0.325553	14.258	1.96951	II 45 16	
	28.5	0.604539	0.713340	0.309423	14.223	1.96843	II 45 21	
	<b>Febr.</b>	1.5	0.658430	0.672634	0.291769	14.189	1.96738	II 45 27
		5.5	0.709070	0.628625	0.272680	14.157	1.96638	II 45 32
9.5		+0.756232	-0.581524	-0.252247	-14.126	1.96543	II 45 38	
13.5		0.799690	0.531549	0.230567	14.097	1.96452	II 45 44	
17.5		0.839223	0.478941	0.207746	14.070	1.96366	II 45 49	
21.5		0.874629	0.423967	0.183901	14.044	1.96284	II 45 54	
25.5		0.905734	0.366920	0.159158	14.019	1.96207	II 45 58	
29.5		+0.932407	-0.308102	-0.133647	-13.996	1.96134	II 46 1	
<b>März</b>		4.5	0.954555	0.247809	0.107494	13.973	1.96064	II 46 3
		8.5	0.972101	0.186322	0.080820	13.951	1.95996	II 46 3
	12.5	0.984967	0.123922	0.053751	13.930	1.95931	II 46 2	
	16.5	0.993092	-0.060904	-0.026414	13.910	1.95867	II 45 59	
	20.5	+0.996434	+0.002423	+0.001053	-13.889	1.95804	II 45 55	
	24.5	0.994983	0.065736	0.028514	13.869	1.95742	II 45 49	
	28.5	0.988777	0.128714	0.055829	13.849	1.95679	II 45 41	
	<b>April</b>	1.5	0.977886	0.191058	0.082873	13.828	1.95615	II 45 32
		5.5	0.962389	0.252496	0.109525	13.806	1.95550	II 45 22
		9.5	+0.942366	+0.312756	+0.135666	-13.784	1.95483	II 45 10
13.5		0.917911	0.371567	0.161177	13.761	1.95413	II 44 57	
17.5		0.889134	0.428651	0.185937	13.737	1.95340	II 44 42	
21.5		0.856180	0.483727	0.209824	13.712	1.95263	II 44 27	
25.5		0.819233	0.536527	0.232725	13.685	1.95182	II 44 10	
29.5		+0.778500	+0.586818	+0.254541	-13.657	1.95097	II 43 53	
<b>Mai</b>		3.5	0.734188	0.634394	0.275180	13.628	1.95007	II 43 36
		7.5	0.686504	0.679061	0.294558	13.597	1.94912	II 43 18
	11.5	0.635658	0.720626	0.312587	13.565	1.94814	II 43 1	
	15.5	0.581872	0.758897	0.329186	13.532	1.94712	II 42 43	

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
1920						
Mai 15.5	+0.581872	+0.758897	+0.329186	-13.532	1.94712	II <sup>h</sup> 42 <sup>m</sup> 43 <sup>s</sup>
19.5	0.525402	0.793685	0.344273	13.497	1.94605	II 42 26
23.5	0.466531	0.824826	0.357779	13.461	1.94494	II 42 10
27.5	0.405554	0.852194	0.369652	13.424	1.94378	II 41 54
31.5	0.342757	0.875693	0.379848	13.387	1.94259	II 41 39
Juni 4.5	+0.278415	+0.895238	+0.388328	-13.348	1.94137	II 41 26
8.5	0.212804	0.910749	0.395056	13.309	1.94013	II 41 13
12.5	0.146209	0.922149	0.399999	13.269	1.93886	II 41 2
16.5	0.078931	0.929372	0.403129	13.228	1.93757	II 40 52
20.5	+0.011298	0.932375	0.404431	13.188	1.93626	II 40 44
24.5	-0.056364	+0.931163	+0.403907	-13.147	1.93494	II 40 37
28.5	0.123750	0.925764	0.401567	13.107	1.93362	II 40 31
Juli 2.5	0.190572	0.916214	0.397426	13.067	1.93229	II 40 27
6.5	0.256546	0.902558	0.391502	13.027	1.93098	II 40 25
10.5	0.321389	0.884842	0.383815	12.989	1.92969	II 40 24
14.5	-0.384803	+0.863124	+0.374392	-12.951	1.92842	II 40 24
18.5	0.446479	0.837491	0.363273	12.913	1.92717	II 40 25
22.5	0.506116	0.808071	0.350514	12.877	1.92594	II 40 28
26.5	0.563449	0.775014	0.336177	12.842	1.92475	II 40 32
30.5	0.618231	0.738475	0.320329	12.809	1.92361	II 40 36
Aug. 3.5	-0.670229	+0.698610	+0.303036	-12.777	1.92250	II 40 41
7.5	0.719212	0.655579	0.284368	12.746	1.92143	II 40 46
11.5	0.764944	0.609552	0.264401	12.716	1.92040	II 40 52
15.5	0.807188	0.560728	0.243223	12.688	1.91942	II 40 58
19.5	0.845725	0.509340	0.220935	12.661	1.91849	II 41 3
23.5	-0.880378	+0.455638	+0.197643	-12.635	1.91759	II 41 8
27.5	0.910996	0.399870	0.173453	12.611	1.91673	II 41 13
31.5	0.937446	0.342279	0.148471	12.587	1.91592	II 41 16
Sept. 4.5	0.959600	0.283109	0.122802	12.565	1.91515	II 41 18
8.5	0.977331	0.222609	0.096557	12.544	1.91440	II 41 19
12.5	-0.990520	+0.161055	+0.069858	-12.523	1.91367	II 41 19
16.5	0.999079	0.098750	0.042835	12.503	1.91296	II 41 17
20.5	1.002961	+0.036000	+0.015618	12.483	1.91227	II 41 14
24.5	1.002152	-0.026896	-0.011664	12.463	1.91161	II 41 9
28.5	0.996656	0.089653	0.038888	12.443	1.91095	II 41 2



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
1920						
Sept. 28.5	-0.996656	-0.089653	-0.038888	-12.443	1.91095	II <sup>h</sup> 41 <sup>m</sup> 2 <sup>s</sup>
Okt. 2.5	0.986488	0.151994	0.065932	12.423	1.91027	II 40 53
6.5	0.971662	0.213640	0.092673	12.402	1.90957	II 40 42
10.5	0.952211	0.274291	0.118980	12.381	1.90886	II 40 30
14.5	0.928201	0.333636	0.144719	12.359	1.90813	II 40 16
18.5	-0.899744	-0.391369	-0.169760	-12.336	1.90736	II 40 1
22.5	0.866980	0.447204	0.193980	12.312	1.90654	II 39 45
26.5	0.830068	0.500879	0.217264	12.286	1.90568	II 39 27
30.5	0.789172	0.552146	0.239505	12.259	1.90478	II 39 8
Nov. 3.5	0.744460	0.600765	0.260595	12.231	1.90383	II 38 48
7.5	-0.696114	-0.646483	-0.280424	-12.201	1.90282	II 38 28
11.5	0.644354	0.689048	0.298884	12.169	1.90175	II 38 8
15.5	0.589437	0.728229	0.315878	12.136	1.90063	II 37 48
19.5	0.531643	0.763824	0.331319	12.101	1.89945	II 37 27
23.5	0.471261	0.795661	0.345131	12.065	1.89822	II 37 8
27.5	-0.408582	-0.823596	-0.357251	-12.027	1.89693	II 36 49
Dez. 1.5	0.343886	0.847495	0.367618	11.988	1.89558	II 36 31
5.5	0.277469	0.867219	0.376171	11.949	1.89419	II 36 14
9.5	0.209657	0.882642	0.382859	11.908	1.89275	II 35 59
13.5	0.140799	0.893670	0.387641	11.866	1.89128	II 35 46
17.5	-0.071253	-0.900244	-0.390493	-11.824	1.88979	II 35 34
21.5	-0.001377	0.902340	0.391405	11.782	1.88827	II 35 24
25.5	+0.068487	0.899964	0.390377	11.740	1.88674	II 35 16
29.5	0.138016	0.893135	0.387415	11.698	1.88521	II 35 10
33.5	0.206882	0.881869	0.382525	11.657	1.88367	II 35 7

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

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

Für  $\alpha$  und  $\delta$  sind ihre genäherten Werte für das Äquinoktium  $\frac{t_1 + t_2}{2}$  zu setzen ( $t_1$  das instantane wahre Äquinoktium,  $t_2$  das Normaläquinoktium 1925.0); will man hingegen die auf das Äquinoktium  $t_2$  bezogenen Koordinaten benutzen, so hat man noch die auf der folgenden Seite gegebenen Korrekturen anzubringen.



Übertragung  
mittlerer Polsternörter  
von dem Äquinoktium  $t_1$   
auf  $t_2 = 1920.0$

$t_1$	90° - (N)	(m) + (N) - 90°	(n)
1755	+63 19.57	+63 21.73	+55 8.42
1790	49 54.09	49 55.42	43 26.49
1800	46 3.90	46 5.04	40 5.95
1810	42 13.69	42 14.65	36 45.42
1825	36 28.33	36 29.04	31 44.63
1830	+34 33.21	+34 33.84	+30 4.37
1835	32 38.07	32 38.64	28 24.11
1840	30 42.93	30 43.44	26 43.87
1845	28 47.79	28 48.23	25 3.60
1850	26 52.64	26 53.03	23 23.36
1855	+24 57.49	+24 57.82	+21 43.11
1860	23 2.33	23 2.61	20 2.86
1865	21 7.16	21 7.40	18 22.61
1870	19 11.99	19 12.19	16 42.35
1875	17 16.82	17 16.98	15 2.12
1880	+15 21.64	+15 21.77	+13 21.88
1885	13 26.45	13 26.55	11 41.64
1890	11 31.26	11 31.33	10 1.39
1895	9 36.06	9 36.12	8 21.16
1900	7 40.86	7 40.90	6 40.93
1905	+ 5 45.65	+ 5 45.68	+ 5 0.68
1910	3 50.44	3 50.44	3 20.46
1915	1 55.22	1 55.23	1 40.22

Sind  $\alpha_1, \delta_1$  die Koordinaten für  $t_1$  und  $\alpha_2, \delta_2$  jene für 1920.0, so hat man

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

$$p = \left( \operatorname{tang} \delta_1 + \cos \alpha_1 \operatorname{tang} \frac{1}{2} (n) \right) \sin (n)$$

$$\operatorname{tang} \Delta \alpha = \frac{p \sin \alpha_1}{1 - p \cos \alpha_1}$$

$$\alpha_2 = \alpha_1 + [(m) + (N) - 90^\circ] + \Delta \alpha$$

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

$$\cos \left( \alpha_1 + \frac{1}{2} \Delta \alpha \right) \sec \frac{1}{2} \Delta \alpha \operatorname{tang} \frac{1}{2} (n)$$

Reduktion von dem Äquinoktium  $t_2$  auf  $t_1$   
siehe Erläuterungen.

Übertragung  
mittlerer Sternörter  
von dem Äquinoktium  $t_1$   
auf  $t_2 = 1920.0$

$t_1$	m <sup>s</sup> (t <sub>2</sub> -t <sub>1</sub> )	log[n <sup>s</sup> (t <sub>2</sub> -t <sub>1</sub> )]	log[n''(t <sub>2</sub> -t <sub>1</sub> )]
1755	+8 <sup>m</sup> 26.743	2.343555	3.519646
1790	6 39.295	2.239982	3.416073
1800	6 8.591	2.205211	3.381302
1810	5 37.885	2.167414	3.343505
1825	4 51.823	2.103731	3.279822
1830	+4 36.468	2.080245	3.256336
1835	4 21.112	2.055416	3.231507
1840	4 5.757	2.029083	3.205174
1845	3 50.401	2.001049	3.177140
1850	3 35.044	1.971082	3.147173
1855	+3 19.686	1.938892	3.114983
1860	3 4.329	1.904125	3.080216
1865	2 48.971	1.866332	3.042423
1870	2 33.612	1.824935	3.001026
1875	2 18.253	1.779173	2.955264
1880	+2 2.894	1.728015	2.904106
1885	1 47.533	1.670019	2.846110
1890	1 32.173	1.60307	2.77916
1895	1 16.812	1.52388	2.69997
1900	1 1.450	1.42697	2.60306
1905	+0 46.089	1.30202	2.47811
1910	0 30.726	1.12593	2.30202
1915	0 15.363	0.82489	2.00098

Sind  $\alpha_1, \delta_1$  die Koordinaten für  $t_1$  und  $\alpha_2, \delta_2$  jene für  $t_2 = 1920.0$ .  
ist ferner  $\alpha', \delta'$  der genäherte Sternort für die Zeit

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

so ist

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

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

$\alpha$	$0^h, 12^h$		$1^h, 13^h$		$2^h, 14^h$		$3^h, 15^h$		$4^h, 16^h$		$5^h, 17^h$	
m	+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—
0	0.004	100.23	1.733	96.80	3.344	86.77	4.728	70.83	5.788	50.06	6.455	25.89
1	033	100.22	761	96.68	369	86.55	748	70.52	803	49.68	462	25.47
2	062	100.22	789	96.57	394	86.33	768	70.21	817	49.30	470	25.05
3	091	100.22	817	96.45	419	86.11	789	69.90	832	48.92	477	24.62
4	120	100.21	845	96.33	445	85.88	809	69.58	846	48.54	484	24.20
5	150	100.20	873	96.21	469	85.66	829	69.27	860	48.16	491	23.77
6	179	100.19	901	96.08	494	85.43	849	68.95	874	47.77	498	23.34
7	208	100.17	929	95.96	519	85.20	869	68.63	888	47.39	505	22.91
8	237	100.16	957	95.83	544	84.96	889	68.31	901	47.00	511	22.48
9	266	100.14	1.985	95.70	569	84.73	909	67.99	915	46.62	518	22.06
10	0.295	100.12	2.013	95.57	3.593	84.50	4.929	67.67	5.928	46.23	6.524	21.63
11	324	100.10	041	95.44	618	84.26	948	67.35	942	45.84	530	21.20
12	353	100.08	068	95.30	642	84.03	968	67.02	955	45.45	536	20.78
13	383	100.06	096	95.17	667	83.79	4.987	66.70	968	45.06	542	20.35
14	412	100.03	124	95.03	691	83.55	5.007	66.37	981	44.67	548	19.92
15	441	100.01	151	94.89	715	83.30	026	66.04	5.994	44.28	554	19.50
16	470	99.98	179	94.75	739	83.06	045	65.71	6.007	43.89	560	19.07
17	499	99.95	206	94.60	764	82.81	064	65.38	020	43.49	565	18.64
18	528	99.91	234	94.46	788	82.57	083	65.05	032	43.10	570	18.21
19	557	99.88	261	94.31	812	82.32	102	64.72	045	42.70	576	17.78
20	0.586	99.84	2.289	94.16	3.835	82.07	5.121	64.38	6.057	42.31	6.581	17.35
21	615	99.80	316	94.01	859	81.82	140	64.05	069	41.91	586	16.92
22	644	99.76	343	93.86	883	81.56	158	63.71	082	41.51	591	16.48
23	673	99.72	371	93.70	907	81.31	177	63.37	094	41.11	595	16.05
24	702	99.67	398	93.55	930	81.05	195	63.03	106	40.71	600	15.62
25	731	99.62	425	93.39	954	80.79	213	62.69	117	40.31	604	15.19
26	760	99.57	452	93.23	3.977	80.53	231	62.35	129	39.91	609	14.76
27	789	99.52	479	93.07	4.001	80.27	249	62.01	141	39.51	613	14.33
28	818	99.47	506	92.91	024	80.01	268	61.66	152	39.11	617	13.89
29	847	99.42	533	92.74	047	79.74	285	61.32	163	38.71	621	13.46
30	0.876	99.36	2.560	92.58	4.071	79.48	5.303	60.97	6.174	38.31	6.625	13.02
31	905	99.30	587	92.41	094	79.21	321	60.62	185	37.90	629	12.59
32	934	99.24	614	92.24	117	78.94	339	60.27	196	37.50	632	12.15
33	962	99.18	641	92.07	139	78.67	356	59.92	207	37.09	636	11.72
34	0.991	99.12	668	91.89	162	78.40	373	59.57	218	36.68	639	11.29
35	1.020	99.05	695	91.72	185	78.13	391	59.22	229	36.27	642	10.86
36	049	98.98	722	91.54	208	77.85	408	58.86	239	35.86	645	10.42
37	078	98.91	748	91.36	230	77.57	425	58.51	250	35.45	648	9.99
38	106	98.84	774	91.18	253	77.30	442	58.16	260	35.05	651	9.55
39	135	98.77	801	91.00	275	77.02	459	57.80	270	34.64	654	9.12
40	1.164	98.70	2.827	90.81	4.298	76.74	5.475	57.44	6.280	34.23	6.657	8.68
41	193	98.62	854	90.63	320	76.46	492	57.08	290	33.82	659	8.24
42	221	98.54	880	90.44	342	76.18	509	56.72	300	33.40	661	7.81
43	250	98.46	906	90.25	364	75.89	525	56.36	309	32.99	664	7.37
44	279	98.37	932	90.06	386	75.60	541	56.00	319	32.57	666	6.93
45	307	98.29	959	89.86	408	75.32	558	55.64	328	32.16	668	6.50
46	336	98.20	2.985	89.66	430	75.03	574	55.27	338	31.75	669	6.06
47	364	98.11	3.011	89.47	452	74.74	590	54.91	347	31.33	671	5.63
48	393	98.02	037	89.27	474	74.45	606	54.54	356	30.92	673	5.19
49	421	97.93	063	89.07	495	74.15	622	54.17	365	30.50	674	4.75
50	1.450	97.84	3.089	88.87	4.517	73.86	5.637	53.80	6.374	30.09	6.676	4.32
51	478	97.74	115	88.67	538	73.56	653	53.43	383	29.67	677	3.88
52	507	97.64	140	88.47	560	73.26	668	53.06	391	29.25	678	3.44
53	535	97.54	166	88.26	581	72.96	684	52.69	399	28.83	679	3.00
54	563	97.44	191	88.05	602	72.66	699	52.32	408	28.41	679	2.57
55	592	97.34	217	87.84	623	72.36	714	51.95	416	27.99	680	2.13
56	620	97.23	243	87.63	644	72.06	729	51.57	424	27.57	681	1.69
57	648	97.13	268	87.42	665	71.76	744	51.20	432	27.15	681	1.26
58	677	97.02	293	87.21	686	71.45	759	50.82	440	26.73	681	0.82
59	705	96.91	319	86.99	707	71.14	773	50.44	447	26.31	682	0.38
60	1.733	96.80	3.344	86.77	4.728	70.83	5.788	50.06	6.455	25.89	6.682	

## Äquinoktium 1920.0 auf das Normaläquinoktium 1925.0

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$\alpha$	6 <sup>h</sup> , 18 <sup>h</sup>		7 <sup>h</sup> , 19 <sup>h</sup>		8 <sup>h</sup> , 20 <sup>h</sup>		9 <sup>h</sup> , 21 <sup>h</sup>		10 <sup>h</sup> , 22 <sup>h</sup>		11 <sup>h</sup> , 23 <sup>h</sup>	
	+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	6.682	0.06	6.453	25.99	5.785	50.16	4.722	70.91	3.338	86.83	1.726	96.82
1	682	0.50	445	26.42	770	50.54	701	71.22	312	87.05	698	96.93
2	681	0.93	438	26.84	755	50.92	681	71.52	287	87.27	669	97.04
3	681	1.37	430	27.26	740	51.29	660	71.83	262	87.48	640	97.15
4	681	1.81	422	27.68	725	51.67	639	72.13	236	87.69	613	97.26
5	680	2.24	414	28.10	710	52.04	618	72.44	211	87.90	584	97.37
6	679	2.68	405	28.52	695	52.42	597	72.74	185	88.11	556	97.47
7	678	3.12	397	28.94	680	52.79	575	73.04	159	88.31	528	97.57
8	677	3.55	389	29.36	664	53.16	554	73.34	134	88.52	499	97.67
9	676	3.99	380	29.77	649	53.53	533	73.64	108	88.72	471	97.77
10	6.675	4.43	6.371	30.19	5.633	53.90	4.511	73.94	3.082	88.93	1.443	97.86
11	674	4.87	362	30.61	617	54.27	490	74.23	056	89.13	414	97.95
12	672	5.30	354	31.02	602	54.63	468	74.52	030	89.33	386	98.04
13	671	5.74	344	31.44	586	55.00	446	74.81	3.004	89.52	357	98.13
14	669	6.17	335	31.86	570	55.36	425	75.10	2.978	89.72	328	98.22
15	667	6.61	326	32.27	554	55.73	403	75.39	952	89.91	300	98.31
16	665	7.05	316	32.68	537	56.09	381	75.68	926	90.10	271	98.40
17	663	7.48	307	33.10	521	56.45	359	75.96	899	90.30	243	98.48
18	661	7.92	297	33.51	504	56.81	337	76.25	873	90.49	214	98.56
19	658	8.36	287	33.92	488	57.17	314	76.54	847	90.67	185	98.64
20	6.656	8.79	6.277	34.33	5.471	57.53	4.292	76.82	2.820	90.86	1.157	98.71
21	653	9.23	267	34.74	454	57.89	270	77.10	794	91.04	128	98.79
22	651	9.66	257	35.15	437	58.25	247	77.37	767	91.22	099	98.86
23	648	10.10	247	35.56	420	58.60	225	77.65	741	91.40	070	98.93
24	645	10.53	237	35.97	403	58.96	202	77.92	714	91.58	042	99.00
25	642	10.97	226	36.38	386	59.31	180	78.20	688	91.75	1.013	99.07
26	639	11.40	215	36.78	369	59.66	157	78.47	661	91.93	0.984	99.13
27	635	11.84	205	37.19	351	60.01	134	78.74	634	92.11	955	99.20
28	631	12.27	194	37.60	334	60.36	111	79.01	607	92.28	926	99.26
29	628	12.70	183	38.00	316	60.71	088	79.28	580	92.45	897	99.32
30	6.624	13.14	6.172	38.41	5.299	61.06	4.065	79.55	2.554	92.62	0.868	99.38
31	620	13.57	161	38.81	281	61.41	041	79.81	527	92.79	839	99.43
32	616	14.01	149	39.21	263	61.75	4.018	80.08	500	92.95	811	99.49
33	612	14.44	138	39.61	245	62.09	3.995	80.34	472	93.11	782	99.54
34	608	14.87	126	40.01	227	62.43	971	80.60	445	93.27	753	99.59
35	603	15.30	114	40.41	209	62.78	948	80.86	418	93.43	724	99.64
36	599	15.73	103	40.81	190	63.12	924	81.12	391	93.59	695	99.68
37	594	16.17	091	41.21	172	63.46	901	81.37	364	93.74	666	99.73
38	589	16.60	079	41.61	153	63.79	877	81.63	336	93.90	637	99.77
39	585	17.03	066	42.01	135	64.13	853	81.88	309	94.05	608	99.81
40	6.580	17.46	6.054	42.41	5.116	64.47	3.829	82.13	2.282	94.20	0.579	99.85
41	575	17.89	042	42.81	097	64.80	805	82.38	254	94.35	550	99.89
42	569	18.32	029	43.20	078	65.13	781	82.63	227	94.50	521	99.92
43	564	18.75	017	43.59	059	65.46	757	82.88	199	94.64	491	99.95
44	558	19.18	6.004	43.98	040	65.79	733	83.12	172	94.78	462	99.98
45	553	19.61	5.991	44.38	021	66.12	709	83.37	145	94.92	433	100.01
46	547	20.04	978	44.77	5.002	66.45	685	83.61	117	95.06	404	100.04
47	541	20.47	965	45.16	4.982	66.78	660	83.85	089	95.20	375	100.06
48	535	20.89	952	45.55	963	67.11	636	84.09	061	95.34	346	100.09
49	529	21.32	938	45.94	943	67.43	612	84.33	033	95.47	317	100.11
50	6.523	21.75	5.925	46.33	4.924	67.75	3.587	84.56	2.006	95.60	0.288	100.13
51	516	22.18	911	46.72	904	68.07	562	84.79	1.978	95.73	259	100.15
52	510	22.60	898	47.10	884	68.39	538	85.02	950	95.86	229	100.17
53	503	23.03	884	47.49	864	68.71	513	85.25	922	95.99	200	100.18
54	496	23.45	870	47.87	844	69.03	488	85.48	894	96.11	171	100.19
55	489	23.87	856	48.26	824	69.35	463	85.71	866	96.24	142	100.20
56	482	24.30	842	48.64	804	69.66	438	85.93	838	96.36	113	100.21
57	476	24.72	828	49.02	784	69.98	413	86.16	810	96.48	84	100.21
58	468	25.15	814	49.40	763	70.29	388	86.38	782	96.60	055	100.22
59	461	25.57	799	49.78	743	70.60	363	86.60	754	96.71	025	100.22
60	6.453	25.99	5.785	50.16	4.722	70.91	3.338	86.83	1.726	96.82		100.23

Übertragung von Sternörter von mittleren Äquinoktium 1920.0  
auf das Normaläquinoktium 1925.0 (Fortsetzung)

$\alpha$	$A$	$A_2$	$D_1$	$\alpha$	$\alpha$	$A$	$A_2$	$D_1$	$\alpha$
$0^h 0^m$	+15.364	+0.0000	-0.000	$12^h 0^m$	$6^h 0^m$	+15.364	-0.0000	-0.024	$18^h 0^m$
10	364	01	000	10	10	364	01	024	10
20	364	03	000	20	20	364	03	024	20
30	364	04	000	30	30	364	04	024	30
40	364	06	001	40	40	363	06	024	40
50	364	07	001	50	50	363	07	023	50
1 0	+15.364	+0.0008	-0.002	13 0	7 0	+15.363	-0.0008	-0.023	19 0
10	364	09	002	10	10	363	09	022	10
20	364	10	003	20	20	363	10	022	20
30	364	- 11	004	30	30	363	11	021	30
40	364	12	004	40	40	363	12	020	40
50	364	13	005	50	50	363	13	019	50
2 0	+15.364	+0.0014	-0.006	14 0	8 0	+15.363	-0.0014	-0.018	20 0
10	365	15	007	10	10	363	15	017	10
20	365	15	008	20	20	363	15	016	20
30	365	16	009	30	30	363	16	015	30
40	365	16	010	40	40	363	16	014	40
50	365	16	011	50	50	363	16	013	50
3 0	+15.365	+0.0016	-0.012	15 0	9 0	+15.363	-0.0016	-0.012	21 0
10	365	16	013	10	10	363	16	011	10
20	365	16	014	20	20	363	16	010	20
30	365	16	015	30	30	363	16	009	30
40	365	15	016	40	40	363	15	008	40
50	365	15	017	50	50	363	15	007	50
4 0	+15.364	+0.0014	-0.018	16 0	10 0	+15.363	-0.0014	-0.006	22 0
10	364	13	019	10	10	363	13	005	10
20	364	12	020	20	20	363	12	004	20
30	364	11	021	30	30	363	11	004	30
40	364	10	021	40	40	363	10	003	40
50	364	09	022	50	50	363	09	002	50
5 0	+15.364	+0.0008	-0.023	17 0	11 0	+15.363	-0.0008	-0.002	23 0
10	364	07	023	10	10	363	07	001	10
20	364	06	024	20	20	363	06	001	20
30	364	04	024	30	30	364	04	000	30
40	364	03	024	40	40	364	03	000	40
50	364	01	024	50	50	364	01	000	50
6 0	+15.364	+0.0000	-0.024	18 0	12 0	+15.364	-0.0000	-0.000	24 0

$$\alpha_{1925} = \alpha_{1920} + A + A_1 \operatorname{tg} \delta_{1920} + A_2 \operatorname{tg}^2 \delta_{1920}$$

$$\delta_{1925} = \delta_{1920} + D + D_1 \operatorname{tg} \delta_{1920}$$

$A_1$  und  $D$  sind in der Tafel (S. 372/373) mit dem Argument  $\alpha_{1920}$  zu entnehmen; für die Werte von  $\alpha$  zwischen  $0^h$  und  $12^h$  gelten die Vorzeichen zur Linken, für die Werte von  $\alpha$  zwischen  $12^h$  und  $24^h$  die Vorzeichen zur Rechten.

# **Finsternisse, Sternbedeckungen, Trabanten**

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**Konstellationen, Hülftafeln**

**1920**

Im Jahre 1920 finden zwei Sonnenfinsternisse und zwei Mondfinsternisse statt.

I. Totale Mondfinsternis 1920 Mai 2

Opposition in Rektaszension	Mai 2, 13 <sup>h</sup> 59 <sup>m</sup> 14. <sup>s</sup>	Mittl. Zt. Greenwich
Rektaszension des Mondes . . . . .		14 <sup>h</sup> 39 <sup>m</sup> 32. <sup>s</sup> 08
Stündliche Änderung . . . . .		2 3.88
Rektaszension der Sonne . . . . .		2 39 32.08
Stündliche Änderung . . . . .		9.58
Deklination des Mondes . . . . .		-15° 51' 6.0
Stündliche Änderung . . . . .		- 6 36.1
Deklination der Sonne . . . . .		+15 32 32.5
Stündliche Änderung . . . . .		+ 44.4
Äquatorialhorizontalparallaxe des Mondes . . . .		54 47. <sup>s</sup> 6
» der Sonne . . . . .		8.7
Halbmesser des Mondes . . . . .		14 55.1
» der Sonne . . . . .		15 51.7
Anfang der Finsternis überhaupt	Mai 2, 12 <sup>h</sup> 0. <sup>m</sup> 8	Mittl. Zt. Greenwich
Anfang der totalen Finsternis . . . . .	» 13 14.7	» » »
Mitte der Finsternis . . . . .	» 13 50.9	» » »
Ende der totalen Finsternis . . . . .	» 14 27.1	» » »
Ende der Finsternis überhaupt . . . . .	» 15 41.3	» » »

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

1° 56' westliche Länge von Greenwich, 15° 38' südliche Breite  
 55 18 » » » » 16 2 » »

Positionswinkel des Eintritts = 83°

» » Austritts = 301

Größe der Verfinsterung in Teilen des Monddurchmessers = 1.224

Der Beginn der Finsternis ist sichtbar in Europa, Westasien, Afrika, dem Indischen Ozean mit Ausnahme seines östlichen Teiles, dem Atlantischen Ozean, dem östlichen Teile von Nordamerika und Südamerika. Das Ende ist sichtbar in Westeuropa, Westafrika, dem Atlantischen Ozean, Nordamerika mit Ausnahme des äußersten Nordwestens, Südamerika und den östlichen Teilen des Stillen Ozeans.



## II. Partielle Sonnenfinsternis 1920 Mai 17

Konjunktion in Rektaszension Mai 17, 18<sup>h</sup> 0<sup>m</sup> 14.4 Mittl. Zt. Greenwich

Rektaszension des Mondes . . . . .	3 38 <sup>m</sup> 44.17
Stündliche Änderung . . . . .	2 37.15
Rektaszension der Sonne . . . . .	3 38 44.17
Stündliche Änderung . . . . .	9.94
Deklination des Mondes . . . . .	+18° 26' 31.5
Stündliche Änderung . . . . .	+ 5 19.0
Deklination der Sonne . . . . .	+19 29 22.0
Stündliche Änderung . . . . .	+ 33.2
Äquatorialhorizontalparallaxe des Mondes . . . . .	60' 56.9
» der Sonne . . . . .	8.7
Halbmesser des Mondes . . . . .	16' 35.6
» der Sonne . . . . .	15 48.4

Bibl. Jag.

	Mittlere Zeit Greenwich	Westl. Länge von Greenwich	Geographische Breite
Beginn der Finsternis . . .	Mai 17. 16 <sup>h</sup> 16 <sup>m</sup> .9	313° 32'	-46° 11'
Größte Verfinsternung . . .	» 18 14.7	252 28	-69 5
Ende der Finsternis . . .	» 20 12.6	226 57	-32 7

Größe der Verfinsternung in Teilen des Sonnendurchmessers = 0.973

### Grenzkurven für die Sichtbarkeit der Finsternis

Südwestliche Grenze		Nördliche Grenze		Südöstliche Grenze	
Westl. Länge	Breite	Westl. Länge	Breite	Westl. Länge	Breite
266.0	-69.0	329.7	-35.1	212.8	-20.7
279.0	-70.4	312.8	-28.2	208.2	-25.6
293.0	-70.2	297.2	-20.6	206.3	-32.2
305.7	-68.7	287.6	-15.8	206.1	-40.7
315.8	-66.0	279.6	-12.4	208.3	-49.9
323.2	-62.5	271.8	-10.0	210.8	-54.6
328.2	-58.5	263.5	- 8.8	214.5	-59.0
331.4	-54.4	254.0	- 9.0	219.9	-63.0
333.2	-50.3	241.4	-11.4	227.6	-66.4
334.2	-43.0	231.7	-14.2	238.1	-69.0
332.6	-37.6	212.8	-20.7	251.1	-70.4
329.7	-35.1			265.4	-70.3
				279.0	-68.6

Die Finsternis beginnt südlich von Südafrika, ist sichtbar im südlichen Teil des Indischen Ozeans und in Australien, mit Ausnahme der nördlichsten Spitzen.

## Elemente der partiellen Sonnenfinsternis 1920 Mai 17

Mittl. Zeit Greenwich	$x$	$y$	$\log \sin d$	$\log \cos d$	$\mu$	$l^{(a)}$
16 <sup>h</sup> 10 <sup>m</sup>	-1.05486	+1.17807	9.52297	9.97441	243 26.1	+0.53291
20	0.95919	1.16494	9.52300	9.97441	245 56.1	0.53291
30	0.86352	1.15181	9.52303	9.97440	248 26.1	0.53291
40	0.76784	1.13869	9.52306	9.97440	250 56.1	0.53290
50	0.67216	1.12557	9.52309	9.97440	253 26.1	0.53290
17 0	-0.57647	+1.11245	9.52313	9.97439	255 56.1	+0.53290
10	0.48078	1.09934	9.52316	9.97439	258 26.1	0.53289
20	0.38509	1.08623	9.52319	9.97439	260 56.2	0.53289
30	0.28940	1.07312	9.52322	9.97438	263 26.2	0.53288
40	0.19370	1.06002	9.52326	9.97438	265 56.2	0.53288
50	0.09800	1.04692	9.52329	9.97437	268 26.2	0.53287
18 0	-0.00230	+1.03383	9.52332	9.97437	270 56.2	+0.53286
10	+0.09340	1.02074	9.52335	9.97436	273 26.2	0.53285
20	0.18911	1.00766	9.52339	9.97436	275 56.2	0.53284
30	0.28481	0.99458	9.52342	9.97436	278 26.2	0.53283
40	0.38052	0.98150	9.52345	9.97435	280 56.2	0.53282
50	0.47622	0.96843	9.52348	9.97435	283 26.3	0.53281
19 0	+0.57193	+0.95536	9.52351	9.97434	285 56.3	+0.53280
10	0.66764	0.94230	9.52355	9.97434	288 26.3	0.53278
20	0.76334	0.92924	9.52358	9.97434	290 56.3	0.53277
30	0.85905	0.91618	9.52361	9.97433	293 26.3	0.53276
40	0.95476	0.90313	9.52364	9.97433	295 56.3	0.53274
50	1.05046	0.89009	9.52367	9.97432	298 26.3	0.53273
20 0	+1.14616	+0.87705	9.52371	9.97432	300 56.3	+0.53271
10	1.24186	0.86401	9.52374	9.97432	303 26.3	0.53269
20	1.33756	0.85098	9.52377	9.97431	305 56.4	0.53267

Mittl. Zeit Greenwich	$x'$	$y'$	$\log \operatorname{tang} f^{(a)}$
16 <sup>h</sup> 0 <sup>m</sup>	+0.009567	+0.001314	7.66470
17 0	9569	1312	7.66469
18 0	9570	1309	7.66469
19 0	9571	1306	7.66469
20 0	9570	1304	7.66468
21 0	9568	1301	7.66468

III. Totale Mondfinsternis 1920 Okt. 27

Opposition in Rektaszension	Okt. 27,	2 <sup>h</sup> 18 <sup>m</sup> 11. <sup>s</sup> 3	Mittl. Zt. Greenwich
Rektaszension des Mondes . . . . .			2 <sup>h</sup> 6 <sup>m</sup> 29. <sup>s</sup> 1
Stündliche Änderung . . . . .			2 20.76
Rektaszension der Sonne . . . . .		14 6	29.31
Stündliche Änderung . . . . .			9.63
Deklination des Mondes . . . . .			+13° 3' 56."4
Stündliche Änderung . . . . .			+8 52.8
Deklination der Sonne . . . . .			-12 48 41.8
Stündliche Änderung . . . . .			- 50.7
Äquatorialhorizontalparallaxe des Mondes . . . . .			59' 3.9"
» der Sonne . . . . .			8.9
Halbmesser des Mondes . . . . .			16' 4.9"
» der Sonne . . . . .			16 6.0
Anfang der Finsternis überhaupt	Okt. 27,	0 <sup>h</sup> 25. <sup>m</sup> 6	Mittl. Zt. Greenwich
Anfang der totalen Finsternis . . . . .	»	1 28.6	» » »
Mitte der Finsternis . . . . .	»	2 11.4	» » »
Ende der totalen Finsternis . . . . .	»	2 54.3	» » »
Ende der Finsternis überhaupt . . . . .	»	3 57.5	» » »

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

191° 26' westliche Länge von Greenwich, 12° 47' nördliche Breite  
 242 30 » » » » 13 19 » » »

Positionswinkel des Eintritts = 90°  
 » » Austritts = 242

Größe der Verfinsterung in Teilen des Monddurchmessers = 1.404

Der Beginn der Finsternis ist sichtbar im Westen von Nordamerika, in dem Stillen Ozean, Australien, Asien mit Ausnahme des westlichen Teiles, und den östlichen Teilen des Indischen Ozeans. Das Ende ist sichtbar in dem westlichen Teile des Stillen Ozeans, Asien, Australien, dem Indischen Ozean, Ostafrika und Europa mit Ausnahme der westlichen Teile.

## IV. Partielle Sonnenfinsternis 1920 Nov. 10

Konjunktion in Rektaszension Nov. 10, 3<sup>h</sup> 27<sup>m</sup> 48.<sup>s</sup> Mittl. Zt. Greenwich

Rektaszension des Mondes . . . . .	15 <sup>h</sup> 1 <sup>m</sup> 56. <sup>s</sup> 24
Stündliche Änderung . . . . .	2 7.74
Rektaszension der Sonne . . . . .	15 1 56.24
Stündliche Änderung . . . . .	10.11
Deklination des Mondes . . . . .	-16° 7' 37.8
Stündliche Änderung . . . . .	-5 58.7
Deklination der Sonne . . . . .	-17 11 6.7
Stündliche Änderung . . . . .	- 42.1
Äquatorialhorizontalparallaxe des Mondes . . . . .	55' 26.8
» der Sonne . . . . .	8.9
Halbmesser des Mondes . . . . .	15' 5.8
» der Sonne . . . . .	16 9.4

	Mittlere Zeit Greenwich	Westl. Länge von Greenwich	Geographische Breite
Beginn der Finsternis . . . . .	Nov. 10. 1 <sup>h</sup> 47. <sup>m</sup> 3	96° 25'	+ 53° 12'
Größte Verfinsternung . . . . .	» 3 52.0	30 0	+ 69 57
Ende der Finsternis . . . . .	» 5 57.1	15 20	+ 34 0

Größe der Verfinsternung in Teilen des Sonnendurchmessers = 0.742

## Grenzkurven für die Sichtbarkeit der Finsternis

Nordöstliche Grenze		Südliche Grenze		Nordwestliche Grenze	
Westl. Länge	Breite	Westl. Länge	Breite	Westl. Länge	Breite
				113.9	+42.7
67.7	+70.1	1.1	+23.0	116.5	+44.3
53.2	+72.3	21.8	+17.1	118.7	+48.3
37.7	+72.8	37.0	+14.6	119.0	+53.8
23.6	+71.7	46.8	+14.6	116.2	+60.3
12.5	+69.5	54.7	+16.1	113.0	+63.6
4.5	+66.6	61.6	+18.5	108.0	+66.7
359.1	+63.1	68.3	+21.7	100.7	+69.5
353.1	+55.4	75.5	+25.6	90.6	+71.6
351.1	+47.3	84.8	+30.6	78.0	+72.7
351.3	+39.6	102.3	+38.6	64.3	+72.6
353.0	+32.8	113.9	+42.7	51.7	+71.2
357.4	+25.3				
1.1	+23.0				

Die Finsternis beginnt im nordwestlichen Teil der Union, ist sichtbar in Canada, im Norden und Osten der Union, im nördlichen Teil des Atlantischen Ozeans bis Grönland, in Nordwest-Afrika, Spanien, Frankreich, England und Westdeutschland. Hier fällt der Beginn der Finsternis nahezu mit Sonnenuntergang zusammen.

Elemente der partiellen Sonnenfinsternis 1920 Nov. 10

Mittl. Zeit Greenwich	$x$	$y$	$\log \sin d$	$\log \cos d$	$\mu$	$l^{(a)}$
1 <sup>h</sup> 40 <sup>m</sup>	-0.91790	+1.31885	9.47006 <sub>n</sub>	9.98020	28° 59.9	+0.56491
50	0.83276	1.30298	9.47011 <sub>n</sub>	9.98020	31 29.9	0.56494
2 0	-0.74761	+1.28711	9.47016 <sub>n</sub>	9.98020	33 59.9	+0.56496
10	0.66247	1.27125	9.47020 <sub>n</sub>	9.98020	36 29.9	0.56498
20	0.57733	1.25539	9.47025 <sub>n</sub>	9.98019	38 59.9	0.56501
30	0.49218	1.23953	9.47030 <sub>n</sub>	9.98019	41 29.9	0.56503
40	0.40703	1.22368	9.47034 <sub>n</sub>	9.98018	43 59.9	0.56505
50	0.32188	1.20783	9.47039 <sub>n</sub>	9.98018	46 29.9	0.56507
3 0	-0.23673	+1.19199	9.47044 <sub>n</sub>	9.98017	48 59.9	+0.56509
10	0.15158	1.17614	9.47048 <sub>n</sub>	9.98017	51 29.9	0.56511
20	-0.06643	1.16030	9.47053 <sub>n</sub>	9.98016	53 59.9	0.56513
30	+0.01871	1.14447	9.47058 <sub>n</sub>	9.98016	56 29.9	0.56515
40	0.10386	1.12864	9.47062 <sub>n</sub>	9.98015	58 59.9	0.56517
50	0.18901	1.11281	9.47067 <sub>n</sub>	9.98015	61 29.9	0.56519
4 0	+0.27416	+1.09698	9.47072 <sub>n</sub>	9.98014	63 59.9	+0.56520
10	0.35931	1.08116	9.47076 <sub>n</sub>	9.98014	66 29.9	0.56522
20	0.44446	1.06534	9.47081 <sub>n</sub>	9.98014	68 59.9	0.56523
30	0.52961	1.04953	9.47086 <sub>n</sub>	9.98013	71 29.9	0.56525
40	0.61476	1.03372	9.47090 <sub>n</sub>	9.98013	73 59.9	0.56526
50	0.69990	1.01791	9.47095 <sub>n</sub>	9.98013	76 29.9	0.56528
5 0	+0.78505	+1.00211	9.47100 <sub>n</sub>	9.98012	78 59.9	+0.56529
10	0.87019	0.98631	9.47104 <sub>n</sub>	9.98012	81 29.9	0.56530
20	0.95533	0.97052	9.47109 <sub>n</sub>	9.98011	83 59.9	0.56532
30	1.04047	0.95473	9.47114 <sub>n</sub>	9.98011	86 29.9	0.56533
40	1.12561	0.93894	9.47118 <sub>n</sub>	9.98010	88 59.9	0.56534
50	1.21074	0.92316	9.47123 <sub>n</sub>	9.98010	91 29.9	0.56535
6 0	+1.29587	+0.90738	9.47128 <sub>n</sub>	9.98009	93 59.9	+0.56536

Mittl. Zeit Greenwich	$x'$	$y'$	$\log \operatorname{tang} f^{(a)}$
1 <sup>h</sup> 0 <sup>m</sup>	+0.008513	-0.001588	7.67432
2 0	8514	1586	7.67432
3 0	8515	1584	7.67433
4 0	8515	1582	7.67433
5 0	8514	1580	7.67434
6 0	8513	1578	7.67434

## Partielle Sonnenfinsternis 1920 Nov. 10

Mittlere Zeit Greenwich und Positionswinkel  
für den Anfang der FinsternisMittlere Zeit Greenwich und Betrag der größten  
Phase, sowie Zeit des Sonnenunterganges

φ	Östliche Länge von Greenwich			
	25 <sup>m</sup>	35 <sup>m</sup>	45 <sup>m</sup>	
45°	T	<sup>h</sup> 3 54.0 <sup>m</sup>	<sup>h</sup> 3 56.2 <sup>m</sup>	<sup>h</sup> 3 58.2 <sup>m</sup>
	P	309.4	310.3	311.3
	Q	268.0	267.9	268.0
46°	T	3 51.6	3 53.7	3 55.6
	P	308.3	309.2	310.1
	Q	267.9	267.9	267.9
47°	T	3 49.1	3 51.2	3 53.1
	P	307.2	308.1	309.0
	Q	268.0	267.9	267.9
48°	T	3 46.7	3 48.7	3 50.6
	P	306.2	307.0	307.9
	Q	268.0	267.9	267.9
49°	T	3 44.3	3 46.4	3 48.2
	P	305.3	306.0	306.9
	Q	268.2	268.0	268.0
50°	T	3 42.0	3 44.0	3 45.8
	P	304.4	305.1	305.9
	Q	268.3	268.1	268.1
51°	T	3 39.7	3 41.6	3 43.5
	P	303.5	304.2	305.0
	Q	268.5	268.3	268.2
52°	T	3 37.4	3 39.3	3 41.1
	P	302.7	303.4	304.1
	Q	268.7	268.5	268.4
53°	T	3 35.2	3 37.1	3 38.8
	P	301.9	302.6	303.2
	Q	269.0	268.8	268.6
54°	T	3 32.9	3 34.8	3 36.5
	P	301.2	301.8	302.5
	Q	269.3	269.0	268.9
55°	T	3 30.7	3 32.6	3 34.3
	P	300.5	301.1	301.7
	Q	269.6	269.4	269.2

φ	Östliche Länge von Greenwich			
	25 <sup>m</sup>	35 <sup>m</sup>	45 <sup>m</sup>	
45°	T <sub>max</sub>	<sup>h</sup> 4 53.5 <sup>m</sup>	<sup>h</sup> 4 53.9 <sup>m</sup>	<sup>h</sup> 4 54.1 <sup>m</sup>
	T <sub>u</sub>	4 12	4 2	3 52
	Ph	0.42	0.41	0.39
46°	T <sub>max</sub>	4 52.0	4 52.4	4 52.6
	T <sub>u</sub>	4 9	3 59	3 49
	Ph	0.43	0.42	0.41
47°	T <sub>max</sub>	4 50.5	4 50.9	4 51.1
	T <sub>u</sub>	4 7	3 57	3 47
	Ph	0.45	0.44	0.43
48°	T <sub>max</sub>	4 48.9	4 49.3	4 49.5
	T <sub>u</sub>	4 4	3 54	3 44
	Ph	0.47	0.46	0.44
49°	T <sub>max</sub>	4 47.3	4 47.7	4 47.9
	T <sub>u</sub>	4 1	3 51	3 41
	Ph	0.49	0.48	0.46
50°	T <sub>max</sub>	4 45.6	4 46.0	4 46.3
	T <sub>u</sub>	3 58	3 48	3 38
	Ph	0.50	0.49	0.48
51°	T <sub>max</sub>	4 44.0	4 44.4	4 44.7
	T <sub>u</sub>	3 55	3 45	3 35
	Ph	0.52	0.51	0.49
52°	T <sub>max</sub>	4 42.3	4 42.7	4 43.0
	T <sub>u</sub>	3 52	3 42	3 32
	Ph	0.54	0.52	0.51
53°	T <sub>max</sub>	4 40.6	4 41.0	4 41.3
	T <sub>u</sub>	3 48	3 38	3 28
	Ph	0.55	0.54	0.52
54°	T <sub>max</sub>	4 38.8	4 39.3	4 39.6
	T <sub>u</sub>	3 44	3 34	3 24
	Ph	0.56	0.55	0.54
55°	T <sub>max</sub>	4 37.0	4 37.5	4 37.9
	T <sub>u</sub>	3 41	3 31	3 21
	Ph	0.57	0.56	0.55

P) Winklabstand vom Punkt größter  
Q) (Dekli- nation  
(HöheT<sub>max</sub>) Mittlere Zeit Greenwich (der größten Phase  
T<sub>u</sub>) (des Sonnenunter-  
ganges

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

Nr.	Name	Gr.	$\alpha_{1920,0}$	$\delta_{1920,0}$	Nr.	Name	Gr.	$\alpha_{1920,0}$	$\delta_{1920,0}$
41	Piscium	6.2	$0^{\text{h}} 43^{\text{m}} 15^{\text{s}}$	$+6^{\circ} 18.3$	343	$\lambda$ Tauri	5.2	$5^{\text{h}} 3^{\text{m}} 4^{\text{s}}$	$+20^{\circ} 18.8$
42	Piscium	6.1	$0 44 8$	$+6 51.8$	346	Tauri	6.5	$5 4 7$	$+19 45.4$
44	$\delta$ Piscium	4.5	$0 44 32$	$+7 9.0$	354	Tauri	6.2	$5 14 31$	$+20 3.1$
57	$\epsilon$ Piscium	4.4	$0 58 47$	$+7 27.6$	358	Tauri	6.5	$5 16 13$	$+19 44.1$
98	$\pi$ Piscium	5.6	$1 32 51$	$+11 44.0$	374	Tauri	4.9	$5 27 31$	$+18 32.2$
112	Ceti	6.0	$1 46 37$	$+10 38.9$	376	Tauri	5.6	$5 28 50$	$+18 29.1$
117	Arietis	6.0	$1 55 9$	$+11 54.4$	377	Tauri	6.1	$5 28 53$	$+20 25.1$
120	Arietis	6.3	$1 58 17$	$+13 5.5$	399	<sup>B. D.</sup> $+19^{\circ}$ Orionis	6.0	$5 47 39$	$+19 50.9$
148	Arietis	6.1	$2 28 31$	$+14 40.9$	403	$\chi^1$ Orionis	4.5	$5 49 39$	$+20 15.8$
162	$\circ$ Arietis	5.8	$2 40 8$	$+14 58.4$	404	Orionis	5.8	$5 50 12$	$+19 44.1$
169	$\sigma$ Arietis	5.4	$2 47 4$	$+14 45.2$	412	Orionis	5.1	$5 58 43$	$+19 41.6$
170	Arietis	6.4	$2 48 44$	$+16 9.5$	413	$\chi^2$ Orionis	4.7	$5 59 10$	$+20 8.5$
181	Arietis	6.5	$3 0 13$	$+15 32.7$	423	Orionis	5.7	$6 7 17$	$+19 48.6$
184	Arietis	6.0	$3 2 55$	$+17 34.3$	426	Gemin.	6.2	$6 8 51$	$+18 42.1$
205	Tauri	6.4	$3 29 35$	$+17 34.3$	427	Orionis	5.7	$6 9 48$	$+17 55.8$
211	Tauri	6.3	$3 34 54$	$+16 16.7$	429	Orionis	5.1	$6 10 8$	$+19 11.1$
235	Tauri	5.9	$3 48 35$	$+17 5.4$	441	Orionis	6.5	$6 16 46$	$+17 48.1$
241	Tauri	6.5	$3 56 12$	$+22 58.6$	467	Gemin.	5.2	$6 37 45$	$+17 43.5$
242	Tauri	5.8	$3 56 12$	$+17 58.2$	471	Gemin.	6.2	$6 42 43$	$+18 16.9$
254	Tauri	5.5	$4 4 30$	$+19 23.9$	483	Gemin.	6.2	$6 57 46$	$+17 52.2$
270	Tauri	6.0	$4 15 46$	$+18 33.1$	484	Gemin.	6.0	$6 57 56$	$+16 47.4$
283	Tauri	6.0	$4 20 17$	$+18 51.5$	503	$\lambda$ Gemin.	3.7	$7 13 30$	$+16 41.1$
286	Tauri	4.3	$4 20 52$	$+17 44.8$	517	Gemin.	5.7	$7 27 12$	$+17 15.5$
295	$\epsilon$ Tauri	3.5	$4 23 57$	$+19 0.2$	520	Gemin.	5.2	$7 29 3$	$+16 0.0$
308	Tauri	6.2	$4 28 55$	$+17 50.9$	540	Canceri	6.0	$7 52 27$	$+16 0.3$
312	Tauri	6.4	$4 31 1$	$+19 43.1$	557	Canceri	6.2	$8 4 14$	$+13 52.5$
323	Tauri	6.1	$4 41 36$	$+18 35.5$	560	Canceri	6.1	$8 6 29$	$+14 52.0$
326	$i$ Tauri	5.1	$4 46 42$	$+18 42.3$	574	Canceri	5.8	$8 22 19$	$+12 55.2$
340	Tauri	6.3	$5 0 49$	$+19 41.9$	581	Canceri	6.4	$8 29 19$	$+13 31.9$
342	$m$ Tauri	5.0	$5 2 43$	$+18 32.3$	600	$A^1$ Canceri	5.5	$8 38 48$	$+12 58.1$

Die auf S. 383—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)

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

Nr.	Name	Gr.	$\alpha_{1920,0}$	$\delta_{1920,0}$	Nr.	Name	Gr.	$\alpha_{1920,0}$	$\delta_{1920,0}$
604	A <sup>2</sup> Cancri	5.7	8 <sup>h</sup> 42 <sup>m</sup> 33 <sup>s</sup>	+12° 24.3	1039	v Scorpii	3.9	16 <sup>h</sup> 7 <sup>m</sup> 21 <sup>s</sup>	-19° 15.2
611	Cancri	5.7	8 51 34	+11 55.9	1051	Scorpii	6.2	16 14 26	-20 1.4
625	x Cancri	5.0	9 3 25	+10 59.5	1057	ψ Ophiuchi	4.6	16 19 25	-19 51.1
640	ω Leonis	5.5	9 24 11	+ 9 24.3	1071	Scorpii	6.5	16 35 51	-20 15.2
642	Leonis	5.8	9 24 14	+ 8 32.3	1074	Scorpii	5.5	16 37 11	-19 46.3
657	Sextantis	6.0	9 41 57	+ 7 4.7	1101	Ophiuchi	6.2	17 0 1	-20 23.0
675	Sextantis	6.3	10 2 37	+ 6 0.1	1122	ξ Ophiuchi	4.4	17 16 12	-21 1.7
682	Sextantis	5.9	10 8 39	+ 5 0.6	1165	Sagitt.	6.4	17 55 15	-20 20.1
715	Leonis	6.3	10 48 7	+ 1 27.0	1184	μ Sagitt.	4.0	18 8 59	-21 4.9
716	Leonis	6.1	10 51 36	+ 1 9.8	1187	Sagitt.	5.9	18 10 27	-20 24.8
723	p <sup>3</sup> Leonis	6.1	10 59 31	+ 0 25.8	1258	Sagitt.	6.1	18 58 22	-19 21.8
731	p <sup>3</sup> Leonis	5.3	11 9 40	+ 0 22.0	1259	Sagitt.	6.4	18 58 25	-19 13.2
749	Leonis	6.3	11 23 48	- 1 15.6	1260	Sagitt.	6.7	18 59 25	-23 1.0
757	Leonis	6.2	11 34 19	- 1 59.6	1266	Sagitt.	6.4	19 2 28	-18 51.8
792	Virginis	6.5	12 10 10	- 5 16.5	1285	ρ Sagitt.	4.0	19 17 2	-17 59.9
817	γ Virginis	4.8	12 35 7	- 7 33.3	1287	Sagitt.	6.0	19 17 11	-18 27.5
830	ψ Virginis	5.0	12 50 11	- 9 6.3	1349	Capric.	6.2	20 16 17	-15 2.3
838	Virginis	5.2	13 3 42	-10 18.8	1350	β Capric.	3.2	20 16 31	-15 2.1
840	Virginis	6.2	13 5 34	- 9 54.2	1367	Capric.	6.1	20 29 45	-13 59.8
855	i Virginis	5.7	13 22 29	-12 17.5	1386	Capric.	6.0	20 46 17	-12 50.5
894	Virginis	6.4	14 0 7	-14 35.3	1411	v Aquarii	4.4	21 5 14	-11 41.8
963	Librae	6.3	15 10 3	-17 28.2	1452	c <sup>1</sup> Capric.	5.3	21 40 44	- 9 27.0
966	Librae	6.2	15 16 21	-17 52.1	1453	c <sup>2</sup> Capric.	6.3	21 42 0	- 9 38.7
979	Librae	5.4	15 28 1	-19 23.9	1510	x Aquarii	5.2	22 33 37	- 4 38.5
989	Librae	5.3	15 34 18	-19 2.3	1514	Aquarii	6.3	22 36 40	- 3 58.2
993	x Librae	5.0	15 37 20	-19 25.2	1532	Piscium	6.2	22 54 8	- 2 49.4
1003	λ Librae	4.9	15 48 41	-19 55.7	1562	Piscium	6.4	23 19 26	- 0 8.9
1009	Librae	5.8	15 50 23	-19 8.9	1582	λ Piscium	4.6	23 37 58	+ 1 20.4
1025	β Scorpii	2.9	16 0 47	-19 35.2	1589	Piscium	5.6	23 45 22	+ 0 37.9
1026	Scorpii	5.0	16 0 47	-19 35.0	1590	Piscium	5.8	23 47 52	+ 2 29.1
1028	ω <sup>1</sup> Scorpii	4.3	16 2 7	-20 27.2	1592	Piscium	6.2	23 48 59	+ 1 38.8



## 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.)	
170	6.4	Jan. 1	9 <sup>h</sup> 28.7 <sup>m</sup>	749	6.3	Febr. 6	13 <sup>h</sup> 49.0 <sup>m</sup>	715	6.3	März 31	14 <sup>h</sup> 2.0 <sup>m</sup>
184	6.0	1	15 9.8	757	6.2	6	18 52.4	716	6.1	31	15 42.0
254	5.5	2	15 6.1	792	6.5	7	12 19.2	749	6.3	April 1	7 16.1
340	6.3	3	12 17.0	838	5.2	8	14 44.1	757	6.2	1	12 22.8
343	5.2	3	13 7.5	894	6.4	9	18 40.8	792	6.5	2	5 54.3
346	6.5	3	13 30.9	979	5.4	11	13 44.8	838	5.2	3	8 10.1
354	6.2	3	17 23.2	993	5.0	11	18 15.5	840	6.2	3	9 4.9
399	6.0	4	5 43.7	1122	4.4	13	17 31.9	894	6.4	4	11 42.7
403	4.5	4	6 28.4	1184	4.0	14	18 29.1	989	5.3	6	9 4.5
404	5.8	4	6 41.0	1258	6.1	15	17 50.1	993	5.0	6	10 31.4
412	5.1	4	9 51.7	1260	6.4	15	17 51.8	1071	6.5	7	14 22.9
413	4.7	4	10 1.8	283	6.0	26	11 2.4	1187	5.9	9	11 26.1
423	5.7	4	13 4.0	295	3.6	26	12 30.3	1266	6.4	10	12 27.3
429	5.1	4	14 8.3	346	6.5	27	4 30.8	1386	6.0	12	15 8.4
483	6.2	5	8 11.5	354	6.2	27	8 38.4	340	6.3	21	15 31.7
540	6.0	6	5 36.9	358	6.5	27	9 19.0	471	6.2	23	7 13.5
560	6.1	6	11 16.8	423	5.7	28	5 35.8	604	5.7	25	9 26.5
611	5.7	7	6 0.8	429	5.1	28	6 44.1	657	6.0	26	12 23.4
625	5.1	7	11 5.5	560	6.1	März 1	6 13.9	731	5.3	28	6 26.5
675	6.3	8	13 26.2	581	6.4	1	15 55.8	749	6.3	28	13 24.0
682	5.9	8	16 12.9	625	5.1	2	6 42.8	792	6.5	29	12 22.9
715	6.3	9	10 47.3	640	5.5	2	15 53.7	830	5.0	30	8 17.7
716	6.1	9	12 27.2	675	6.3	3	9 15.7	838	5.2	30	15 0.2
723	6.1	9	16 16.2	682	5.9	3	12 1.8	1051	6.2	Mai 4	11 28.9
855	5.7	12	15 43.0	715	6.3	4	6 24.0	1165	6.4	6	11 24.4
1003	5.1	15	16 13.0	716	6.1	4	8 2.2	1367	6.1	9	14 50.5
1532	6.2	24	4 35.0	723	6.1	4	11 46.9	1532	6.2	12	14 45.5
1590	5.8	25	6 44.5	731	5.3	4	16 35.9	520	5.2	21	9 30.1
44	4.6	26	9 34.6	817	4.8	6	9 52.3	574	5.8	22	7 21.8
98	5.6	27	7 35.7	830	5.0	6	17 13.9	640	5.5	23	10 17.1
148	6.1	28	7 50.3	1028	4.3	10	14 19.0	642	5.8	23	10 18.5
205	6.4	29	9 7.8	1349	6.2	15	15 41.3	682	5.9	24	6 41.7
312	6.4	30	9 30.9	1350	3.2	15	15 48.1	723	6.1	25	7 0.3
377	6.1	31	7 55.8	1411	4.5	16	15 20.7	731	5.3	25	11 57.3
399	6.0	31	15 9.4	120	6.3	22	6 41.1	1025	2.9	31	11 21.7
403	4.5	31	15 55.5	242	5.8	24	6 57.8	1026	5.0	31	11 22.0
404	5.8	31	16 8.6	340	6.3	25	8 33.6	1285	4.0	Juni 4	9 19.7
471	6.2	Febr. 1	12 28.3	346	6.5	25	9 51.9	1287	6.0	4	9 24.1
517	5.7	2	6 0.0	412	5.1	26	7 32.0	1349	6.2	5	14 38.0
540	6.0	2	16 9.4	426	6.2	26	11 35.4	1350	3.2	5	14 45.1
581	6.4	3	7 19.5	429	5.1	26	12 6.3	1411	4.5	6	15 17.1
600	5.5	3	11 17.9	483	6.2	27	7 25.2	1510	5.2	8	12 8.5
604	5.7	3	12 52.7	503	3.6	27	13 54.4	1514	6.3	8	13 40.8
611	5.7	3	16 41.8	560	6.1	28	12 16.4	1562	6.4	9	11 2.7
640	5.5	4	6 46.3	611	5.7	29	7 59.8	120	6.3	12	12 15.8
731	5.3	6	7 3.4	625	5.1	29	13 18.0	625	5.1	19	9 23.6

## 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.)	
715	6.3	Juni 21	8 <sup>h</sup> 19.5 <sup>m</sup>	625	5.1	Sept. 9	14 <sup>h</sup> 45.0 <sup>m</sup>	57	4.4	Nov. 22	6 <sup>h</sup> 54.9 <sup>m</sup>
716	6.1	21	9 57.6	1071	6.5	18	7 11.2	112	6.0	23	4 15.6
1009	5.8	27	12 16.1	1074	5.5	18	7 49.0	117	6.0	23	7 57.2
1071	6.5	28	10 2.7	1266	6.4	21	5 18.8	169	5.5	24	5 44.8
1187	5.9	30	7 8.3	1452	5.3	24	11 35.4	181	6.5	24	11 5.6
1266	6.4	Juli 1	8 10.6	1453	6.3	24	12 13.2	235	5.9	25	6 15.9
1285	4.0	1	15 15.6	1510	5.2	25	13 53.9	241	6.3	25	9 9.7
1287	6.0	1	15 20.0	42	6.1	28	4 44.6	242	5.8	25	9 13.4
1452	5.3	4	15 4.2	57	4.4	28	11 29.7	286	4.3	25	18 43.0
41	6.2	8	10 15.3	112	6.0	29	9 1.6	326	5.1	26	4 33.2
42	6.1	8	10 40.4	117	6.0	29	12 47.1	342	5.0	26	10 37.1
44	4.6	8	10 51.5	169	5.5	30	11 9.9	426	6.2	27	11 35.2
162	5.8	10	14 22.6	181	6.5	30	16 42.3	427	5.7	27	11 56.8
792	6.5	20	7 30.8	235	5.9	Okt. 1	12 43.0	441	6.5	27	14 35.2
989	5.3	24	10 43.2	241	6.3	1	15 45.4	484	6.0	28	6 21.9
1057	4.6	25	8 23.4	242	5.8	1	15 49.3	503	3.6	28	12 24.8
1122	4.4	26	11 30.3	323	6.1	2	10 9.7	520	5.2	28	18 31.1
1187	5.9	27	13 24.3	326	5.1	2	12 12.1	557	6.2	29	8 35.7
1258	6.1	28	12 25.9	484	6.0	4	16 52.1	574	5.8	29	15 58.9
1259	6.4	28	12 27.6	604	5.7	6	12 35.0	625	5.1	30	9 13.9
1266	6.4	28	14 24.8	611	5.7	6	16 28.3	640	5.5	30	18 11.5
1532	6.2	Aug. 2	9 53.2	1165	6.4	17	5 1.8	675	6.3	Dez. 1	11 13.4
1582	4.6	3	7 51.8	1367	6.1	20	8 43.0	731	5.3	2	18 11.4
1592	6.2	3	13 19.9	1532	6.2	23	9 17.7	966	6.2	7	16 47.6
41	6.2	4	15 46.2	1592	6.2	24	12 2.6	1266	6.4	12	4 5.2
270	6.0	8	12 31.2	41	6.2	25	13 31.1	1589	5.6	18	4 32.4
283	6.0	8	14 19.4	42	6.1	25	13 55.4	1592	6.2	18	6 21.8
295	3.6	8	15 46.6	112	6.0	26	17 47.7	41	6.2	19	9 3.9
963	6.3	20	6 20.0	211	6.3	28	14 45.6	211	6.3	22	12 4.1
966	6.2	20	9 21.0	286	4.3	29	8 56.5	286	4.3	23	6 0.8
1026	5.0	21	6 33.5	308	6.2	29	12 5.9	308	6.2	23	9 6.0
1039	3.9	21	9 40.9	323	6.1	29	17 3.4	323	6.1	23	13 55.7
1101	6.2	22	10 46.3	374	4.9	30	10 56.0	326	5.1	23	15 51.3
1349	6.2	26	9 30.5	376	5.6	30	11 26.8	374	4.9	24	7 10.4
1350	3.2	26	9 37.4	467	5.2	31	14 29.0	376	5.6	24	7 39.9
1411	4.5	27	9 45.5	520	5.2	Nov. 1	11 8.0	467	5.2	25	9 19.1
1510	5.2	29	5 53.8	574	5.8	2	9 19.2	471	6.2	25	11 10.6
1532	6.2	29	16 7.2	604	5.7	2	17 59.1	520	5.2	26	4 40.8
117	6.0	Sept. 2	6 23.8	640	5.5	3	12 14.2	560	6.1	26	19 9.6
181	6.5	3	10 52.0	731	5.3	5	12 49.8	600	5.5	27	7 58.8
242	5.8	4	10 18.9	792	6.5	6	17 40.8	604	5.7	27	9 29.4
342	5.0	5	13 16.4	1285	4.0	15	4 20.7	611	5.7	27	13 8.3
426	6.2	6	15 36.1	1452	5.3	18	5 0.0	625	5.1	27	17 59.0
483	6.2	7	11 5.9	1453	6.3	18	5 39.0	675	6.3	28	18 58.0
560	6.1	8	14 57.6	1510	5.2	19	8 6.7	757	6.2	30	12 15.1

Verfinsterungen: E. Eintritte, A. Austritte

TRABANT I			TRABANT I			TRABANT I			TRABANT I				
Jan.	0	16 <sup>h</sup> 26.4 <sup>m</sup> E.	März	25	17 <sup>h</sup> 38.4 <sup>m</sup> A.	Juni	18	16 <sup>h</sup> 42.5 <sup>m</sup> A.	Okt.	29	8 <sup>h</sup> 4.3 <sup>m</sup> E.		
	2	10 54.8 E.		27	12 7.1 A.		20	11 11.2 A.		31	2 32.6 E.		
	4	5 23.2 E.		29	6 36.0 A.		22	5 40.0 A.		Nov.	1	21 0.8 E.	
	5	23 51.6 E.		31	1 4.8 A.		24	0 8.8 A.			3	15 29.1 E.	
	7	18 20.0 E.		April	1		19 33.6 A.	25		18 37.6 A.	5	9 57.3 E.	
	9	12 48.4 E.			3		14 2.4 A.	27		13 6.3 A.	7	4 25.6 E.	
	11	7 16.9 E.		5	8 31.3 A.		29	7 35.1 A.		8	22 53.9 E.		
	13	1 45.3 E.		7	3 0.1 A.		Juli	1		2 3.7 A.	10	17 22.1 E.	
	14	20 13.8 E.		8	21 29.0 A.			2		20 32.5 A.	12	11 50.4 E.	
	16	14 42.2 E.		10	15 57.8 A.		4	15 1.2 A.		14	6 18.6 E.		
	18	9 10.7 E.		12	10 26.7 A.		6	9 30.0 A.		16	0 46.8 E.		
	20	3 39.2 E.		14	4 55.5 A.		8	3 58.6 A.		17	19 15.1 E.		
	21	22 7.7 E.		15	23 24.4 A.		9	22 27.4 A.		19	13 43.3 E.		
	23	16 36.2 E.		17	17 53.2 A.		11	16 56.0 A.		21	8 11.5 E.		
	25	11 4.7 E.		19	12 22.1 A.		13	11 24.8 A.		23	2 39.8 E.		
	27	5 33.2 E.		21	6 50.9 A.		15	5 53.4 A.		24	21 8.0 E.		
	29	0 1.8 E.		23	1 19.9 A.		17	0 22.2 A.		26	15 36.2 E.		
	30	18 30.3 E.		24	19 48.7 A.		18	18 50.8 A.		28	10 4.4 E.		
	Febr.	1		12 58.9 E.	26		14 17.6 A.	20		13 19.5 A.	30	4 32.7 E.	
		3		9 45.6 A.	28		8 46.4 A.	22		7 48.1 A.	Dez.	1	23 0.9 E.
		5		4 14.3 A.	30		3 15.3 A.	24		2 16.8 A.		3	17 29.1 E.
		6		22 42.8 A.	Mai		1	21 44.1 A.		25	20 45.4 A.	5	11 57.3 E.
		8		17 11.5 A.			3	16 13.0 A.		27	15 14.1 A.	7	6 25.5 E.
		10		11 40.0 A.	5		10 41.8 A.	Sept.		16	20 43.8 E.	9	0 53.7 E.
		12		6 8.7 A.	7		5 10.7 A.			18	15 12.2 E.	10	19 21.9 E.
		14		0 37.3 A.	8		23 39.5 A.	20		9 40.6 E.	12	13 50.1 E.	
		15		19 6.0 A.	10		18 8.4 A.	22		4 9.1 E.	14	8 18.4 E.	
		17		13 34.6 A.	12		12 37.2 A.	23		22 37.5 E.	16	2 46.5 E.	
		19		8 3.3 A.	14		7 6.1 A.	25		17 5.9 E.	17	21 14.8 E.	
		21		2 31.9 A.	16		1 34.9 A.	27		11 34.3 E.	19	15 43.0 E.	
22	21 0.7 A.	17	20 3.8 A.	29	6 2.7 E.	21	10 11.2 E.						
24	15 29.3 A.	19	14 32.6 A.	Okt.	1	0 31.0 E.	23	4 39.4 E.					
26	9 58.1 A.	21	9 1.5 A.		2	18 59.4 E.	24	23 7.6 E.					
28	4 26.7 A.	23	3 30.3 A.	4	13 27.8 E.	26	17 35.8 E.						
29	22 55.5 A.	24	21 59.2 A.	6	7 56.2 E.	28	12 4.1 E.						
März	2	17 24.2 A.	26	16 28.0 A.	8	2 24.5 E.	30	6 32.3 E.					
	4	11 53.0 A.	28	10 56.9 A.	9	20 52.9 E.	32	1 0.5 E.					
	6	6 21.7 A.	30	5 25.6 A.	11	15 21.2 E.	<b>TRABANT II</b>						
	8	0 50.5 A.	31	23 54.5 A.	13	9 49.5 E.	Jan.	1	1 24.6 E.				
	9	19 19.2 A.	Juni	2	18 23.3 A.	15	4 17.8 E.	4	14 42.5 E.				
	11	13 48.0 A.		4	12 52.2 A.	16	22 46.2 E.	8	3 59.8 E.				
	13	8 16.7 A.	6	7 20.9 A.	18	17 14.5 E.	11	17 17.6 E.					
	15	2 45.5 A.	8	1 49.8 A.	20	11 42.8 E.	15	6 35.0 E.					
	16	21 14.3 A.	9	20 18.5 A.	22	6 11.1 E.	18	19 52.7 E.					
	18	15 43.1 A.	11	14 47.4 A.	24	0 39.4 E.	22	9 10.1 E.					
20	10 11.9 A.	13	9 16.1 A.	25	19 7.7 E.	25	22 27.8 E.						
22	4 40.7 A.	15	3 44.9 A.	27	13 36.0 E.	29	11 45.2 E.						
23	23 9.5 A.	16	22 13.7 A.										

## Verfinsterungen: E. Eintritte, A. Austritte

TRABANT II			TRABANT II			TRABANT III			TRABANT III		
Febr. 2	<sup>h</sup> 1 <sup>m</sup> 2.9	E.	Juli 21	<sup>h</sup> 17 <sup>m</sup> 51.0	A.	März 25	<sup>h</sup> 23 <sup>m</sup> 38.2	E.	Dez. 1	<sup>h</sup> 19 <sup>m</sup> 1.4	E.
5	17 12.8	A.	25	7 8.5	A.	26	3 17.8	A.	1	22 27.8	A.
9	6 30.3	A.				April 2	3 37.6	E.	8	22 58.5	E.
12	19 47.7	A.	Sept. 16	11 38.7	E.	2	7 17.2	A.	9	2 24.2	A.
16	9 5.3	A.	20	0 56.6	E.	9	7 37.0	E.	16	2 55.6	E.
19	22 22.7	A.	23	14 14.0	E.	9	11 16.5	A.	16	6 20.7	A.
23	11 40.2	A.	27	3 32.0	E.	16	11 36.7	E.	23	6 53.0	E.
27	0 57.6	A.	30	16 49.5	E.	16	15 16.0	A.	23	10 17.4	A.
März 1	14 15.1	A.	Okt. 4	6 7.5	E.	23	15 37.0	E.	30	10 51.1	E.
5	3 32.5	A.	7	19 25.0	E.	23	19 16.3	A.	30	14 14.9	A.
8	16 50.0	A.	11	8 43.1	E.	30	19 37.2	E.			
12	6 7.4	A.	14	22 0.6	E.	30	23 16.3	A.	TRABANT IV		
15	19 24.9	A.	18	11 18.8	E.	Mai 7	23 37.8	E.	Jan. 0	21 <sup>h</sup> 36.3	E.
19	8 42.3	A.	22	0 36.3	E.	8	3 16.7	A.	1	2 22.2	A.
22	21 59.7	A.	25	13 54.5	E.	15	3 37.7	E.	17	15 36.6	E.
26	11 17.2	A.	29	3 12.0	E.	15	7 16.3	A.	Febr. 3	14 27.0	A.
30	0 34.5	A.	Nov. 1	16 30.2	E.	22	7 37.2	E.	20	8 30.7	A.
April 2	13 52.0	A.	5	5 47.7	E.	22	11 15.6	A.	März 7	21 41.5	E.
6	3 9.3	A.	8	19 6.0	E.	29	11 36.6	E.	8	2 34.0	A.
9	16 26.8	A.	12	8 23.5	E.	29	15 14.7	A.	24	15 44.1	E.
13	5 44.1	A.	15	21 41.8	E.	Juni 5	15 36.1	E.	24	20 37.3	A.
16	19 1.5	A.	19	10 59.3	E.	5	19 14.0	A.	April 10	9 47.8	E.
20	8 18.9	A.	23	0 17.7	E.	12	19 36.3	E.	10	14 41.5	A.
23	21 36.3	A.	26	13 35.2	E.	12	23 14.0	A.	27	3 51.0	E.
27	10 53.7	A.	30	2 53.5	E.	19	23 36.2	E.	27	8 45.1	A.
Mai 1	0 11.0	A.	Dez. 3	16 11.0	E.	20	3 13.6	A.	Mai 13	21 54.1	E.
4	13 28.4	A.	7	5 29.4	E.	27	7 13.4	A.	14	2 48.0	A.
8	2 45.7	A.	10	18 46.9	E.	Juli 4	11 12.5	A.	30	15 57.8	E.
11	16 3.1	A.	14	8 5.3	E.	11	15 11.0	A.	30	20 51.3	A.
15	5 20.4	A.	17	21 22.8	E.	18	19 9.6	A.	Juni 16	10 0.6	E.
18	18 37.8	A.	21	10 41.2	E.	25	23 8.1	A.	16	14 53.3	A.
22	7 55.1	A.	24	23 58.7	E.				Juli 3	4 3.0	E.
25	21 12.6	A.	28	13 17.2	E.	Sept. 21	3 22.6	E.	3	8 54.5	A.
29	10 29.9	A.	32	2 34.6	E.	28	7 21.0	E.	19	22 5.7	E.
Juni 1	23 47.3	A.			Okt. 5	11 19.7	E.	20	2 55.9	A.	
5	13 4.6	A.	TRABANT III			12	15 17.5	E.			
9	2 22.0	A.	Jan. 7	<sup>h</sup> 3 <sup>m</sup> 46.6	E.	19	19 15.1	E.	Sept. 24	22 9.9	E.
12	15 39.4	A.	14	7 45.4	E.	19	22 44.9	A.	25	2 51.4	A.
16	4 56.7	A.	21	11 44.2	E.	26	23 12.4	E.	Okt. 11	16 9.6	E.
19	18 14.1	A.	28	15 43.6	E.	27	2 41.8	A.	11	20 48.1	A.
23	7 31.5	A.	Febr. 4	23 22.1	A.	Nov. 3	3 9.9	E.	28	10 9.7	E.
26	20 48.9	A.	12	3 20.8	A.	3	6 38.8	A.	28	14 45.0	A.
30	10 6.3	A.	19	7 19.5	A.	10	7 8.2	E.	Nov. 14	4 8.8	E.
Juli 3	23 23.7	A.	26	11 18.5	A.	10	10 36.5	A.	14	8 40.6	A.
7	12 41.1	A.	März 4	15 18.4	A.	17	11 6.0	E.	30	22 7.4	E.
11	1 58.6	A.	11	19 18.1	A.	17	14 33.7	A.	Dez. 1	2 35.4	A.
14	15 16.0	A.	18	19 38.5	E.	24	15 4.1	E.	17	16 6.9	E.
18	4 33.6	A.	18	23 18.3	A.	24	18 31.1	A.	17	20 30.6	A.

# Saturn und Saturnsring 1920

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Mittlere Zeit Grönwich	$\alpha$	$\beta$	$p_a$	$a$	$b$	$U'$	$B'$	$P'$
1920								
Jan. 0.5	18.93	16.98	-0.04	42.65	-3.55	350.043	-7.198	-27.643
4.5	19.06	17.09	0.04	42.93	3.61	350.171	7.136	27.655
8.5	19.18	17.20	0.03	43.20	3.68	350.299	7.075	27.667
12.5	19.29	17.30	0.03	43.46	3.76	350.426	7.013	27.678
16.5	19.40	17.40	0.03	43.71	3.85	350.554	6.952	27.689
20.5	19.50	17.49	-0.02	43.94	-3.95	350.681	-6.890	-27.700
24.5	19.60	17.58	0.02	44.15	4.06	350.809	6.829	27.711
28.5	19.69	17.66	0.02	44.35	4.17	350.936	6.767	27.722
Febr. 1.5	19.77	17.73	0.01	44.53	4.28	351.064	6.706	27.733
5.5	19.84	17.79	0.01	44.69	4.40	351.191	6.644	27.743
9.5	19.90	17.84	-0.01	44.82	-4.52	351.318	-6.583	-27.754
13.5	19.94	17.89	0.00	44.92	4.65	351.445	6.521	27.764
17.5	19.97	17.92	0.00	45.00	4.78	351.572	6.460	27.774
21.5	20.00	17.94	0.00	45.05	4.91	351.699	6.398	27.784
25.5	20.01	17.95	0.00	45.07	5.03	351.826	6.337	27.794
♂ 29.5	20.02	17.96	-0.00	45.08	-5.15	351.953	-6.275	-27.803
März 4.5	20.00	17.95	0.00	45.06	5.26	352.080	6.213	27.813
8.5	19.98	17.93	0.00	45.00	5.38	352.207	6.151	27.822
12.5	19.95	17.90	0.00	44.92	5.48	352.334	6.090	27.831
16.5	19.90	17.86	+0.01	44.82	5.58	352.460	6.028	27.840
20.5	19.84	17.81	+0.01	44.69	-5.66	352.587	-5.966	-27.849
24.5	19.77	17.75	0.01	44.53	5.74	352.713	5.904	27.858
28.5	19.69	17.68	0.02	44.35	5.80	352.840	5.842	27.867
April 1.5	19.61	17.60	0.02	44.16	5.86	352.966	5.780	27.875
5.5	19.51	17.51	0.02	43.95	5.90	353.093	5.718	27.883
9.5	19.41	17.42	+0.03	43.72	-5.94	353.219	-5.656	-27.891
13.5	19.30	17.33	0.03	43.48	5.96	353.346	5.594	27.899
17.5	19.19	17.23	0.04	43.22	5.97	353.472	5.532	27.907
21.5	19.07	17.13	0.04	42.95	5.97	353.598	5.470	27.915
25.5	18.94	17.03	0.04	42.67	5.96	353.724	5.409	27.922
29.5	18.82	16.93	+0.04	42.39	-5.93	353.850	-5.347	-27.929
Mai 3.5	18.69	16.82	0.05	42.10	5.90	353.976	5.285	27.936
7.5	18.56	16.70	0.05	41.81	5.85	354.102	5.223	27.943
11.5	18.43	16.57	0.05	41.51	5.80	354.228	5.162	27.950
15.5	18.30	16.45	0.05	41.21	5.73	354.354	5.100	27.957
19.5	18.17	16.32	+0.05	40.92	-5.66	354.480	-5.038	-27.963
23.5	18.04	16.20	0.05	40.63	5.58	354.606	4.976	27.970
27.5	17.91	16.08	0.05	40.34	5.49	354.732	4.915	27.976
31.5	17.79	15.97	0.05	40.05	5.39	354.858	4.853	27.982
Juni 4.5	17.66	15.85	0.05	39.77	5.29	354.983	4.791	27.988
8.5	17.54	15.74	+0.05	39.50	-5.19	355.108	-4.729	-27.994
12.5	17.42	15.63	0.05	39.23	5.08	355.234	4.667	28.000
16.5	17.31	15.53	0.04	38.97	4.96	355.360	4.605	28.006
20.5	17.19	15.43	0.04	38.72	4.84	355.485	4.543	28.011
24.5	17.08	15.34	0.04	38.48	4.71	355.610	4.481	28.016
28.5	16.98	15.25	+0.04	38.25	-4.58	355.735	-4.419	-28.021
Juli 2.5	16.89	15.16	0.03	38.03	4.44	355.860	4.357	28.026

Mittlere Zeit Greenwich	$\alpha$	$\beta$	$p_a$	$a$	$b$	$U'$	$B'$	$P'$
1920								
Juli 2.5	16.89	15.16	+0.03	38.03	-4.44	355.860	-4.357	-28.026
6.5	16.79	15.07	0.03	37.82	4.30	355.985	4.295	28.031
10.5	16.70	14.99	0.03	37.62	4.16	356.110	4.233	28.036
14.5	16.62	14.91	0.03	37.44	4.02	356.235	4.171	28.040
18.5	16.54	14.84	0.02	37.26	3.88	356.360	4.109	28.045
22.5	16.47	14.78	+0.02	37.10	-3.74	356.485	-4.047	-28.049
26.5	16.40	14.72	0.02	36.95	3.59	356.610	3.985	28.053
30.5	16.34	14.67	0.02	36.81	3.44	356.735	3.923	28.057
Aug. 3.5	16.29	14.61	0.01	36.69	3.29	356.860	3.861	28.061
7.5	16.24	14.56	0.01	36.58	3.14	356.984	3.799	28.064
11.5	16.20	14.51	+0.01	36.48	-2.99	357.109	-3.737	-28.068
15.5	16.16	14.47	0.01	36.40	2.84	357.233	3.675	28.071
19.5	16.13	14.43	0.00	36.33	2.70	357.358	3.613	28.074
23.5	16.10	14.40	0.00	36.27	2.55	357.482	3.551	28.077
27.5	16.08	14.39	0.00	36.22	2.40	357.607	3.489	28.080
31.5	16.07	14.39	+0.00	36.19	-2.25	357.731	-3.427	-28.082
Sept. 4.5	16.07	14.39	0.00	36.17	2.10	357.856	3.365	28.085
♄ 8.5	16.06	14.39	0.00	36.17	1.95	357.980	3.303	28.087
12.5	16.06	14.40	0.00	36.18	1.80	358.104	3.241	28.090
16.5	16.07	14.41	0.00	36.20	1.65	358.228	3.180	28.092
20.5	16.09	14.42	+0.00	36.24	-1.51	358.352	-3.118	-28.094
24.5	16.11	14.44	0.00	36.29	1.37	358.476	3.056	28.096
28.5	16.14	14.47	0.00	36.35	1.23	358.600	2.994	28.098
Okt. 2.5	16.17	14.50	-0.01	36.43	1.10	358.724	2.932	28.099
6.5	16.21	14.53	0.01	36.52	0.97	358.848	2.870	28.101
10.5	16.26	14.57	-0.01	36.63	-0.84	358.972	-2.807	-28.102
14.5	16.31	14.62	0.01	36.75	0.71	359.096	2.745	28.103
18.5	16.37	14.67	0.02	36.88	0.58	359.220	2.683	28.104
22.5	16.44	14.73	0.02	37.02	0.46	359.344	2.621	28.105
26.5	16.51	14.79	0.02	37.18	0.33	359.468	2.559	28.106
30.5	16.59	14.86	-0.02	37.35	-0.21	359.592	-2.497	-28.107
Nov. 3.5	16.67	14.93	0.03	37.54	-0.10	359.715	2.435	28.107
7.5	16.76	15.01	0.03	37.74	0.00	359.839	2.373	28.107
11.5	16.85	15.09	0.03	37.94	+0.11	359.962	2.311	28.107
15.5	16.95	15.18	0.03	38.16	0.21	0.086	2.249	28.107
19.5	17.05	15.27	-0.04	38.39	+0.30	0.209	-2.187	-28.107
23.5	17.15	15.36	0.04	38.63	0.38	0.333	2.125	28.107
27.5	17.26	15.46	0.04	38.88	0.46	0.456	2.063	28.107
Dez. 1.5	17.38	15.56	0.04	39.14	0.53	0.580	2.001	28.107
5.5	17.50	15.67	0.05	39.40	0.59	0.703	1.939	28.106
9.5	17.62	15.78	-0.05	39.67	+0.65	0.827	-1.877	-28.105
13.5	17.74	15.89	0.05	39.95	0.70	0.950	1.815	28.104
17.5	17.86	16.00	0.05	40.23	0.74	1.074	1.753	28.103
21.5	17.99	16.12	0.05	40.52	0.77	1.197	1.692	28.102
25.5	18.12	16.23	0.05	40.81	0.79	1.320	1.630	28.101
29.5	18.25	16.35	-0.05	41.11	+0.81	1.444	-1.568	-28.099
33.5	18.38	16.47	0.05	41.41	0.82	1.567	1.506	28.098

# Saturn und Saturnsring 1920

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Mittlere Zeit Greenwich	U	B	P	Mittlere Zeit Greenwich	U	B	P
1920				1920			
Jan. 0.5	37.170	-4.776	-5.512	April 1.5	32.118	-7.623	-5.901
2.5	37.142	4.800	5.514	3.5	32.018	7.672	5.908
4.5	37.108	4.827	5.516	5.5	31.924	7.719	5.915
6.5	37.067	4.857	5.519	7.5	31.834	7.763	5.922
8.5	37.020	4.891	5.523	9.5	31.750	7.804	5.928
10.5	36.967	-4.928	-5.528	11.5	31.670	-7.842	-5.934
12.5	36.909	4.968	5.534	13.5	31.595	7.876	5.939
14.5	36.844	5.011	5.539	15.5	31.526	7.907	5.944
16.5	36.774	5.057	5.545	17.5	31.463	7.935	5.949
18.5	36.698	5.106	5.551	19.5	31.406	7.960	5.953
20.5	36.616	-5.158	-5.557	21.5	31.355	-7.983	-5.956
22.5	36.529	5.213	5.564	23.5	31.310	8.003	5.959
24.5	36.436	5.270	5.571	25.5	31.270	8.019	5.962
26.5	36.338	5.329	5.579	27.5	31.236	8.032	5.964
28.5	36.235	5.391	5.588	29.5	31.209	8.041	5.966
30.5	36.128	-5.455	-5.596	Mai 1.5	31.188	-8.047	-5.968
Febr. 1.5	36.018	5.520	5.605	3.5	31.174	8.049	5.969
3.5	35.904	5.587	5.614	5.5	31.166	8.048	5.969
5.5	35.785	5.656	5.623	7.5	31.163	8.045	5.969
7.5	35.662	5.726	5.633	9.5	31.167	8.038	5.969
9.5	35.536	-5.798	-5.643	11.5	31.177	-8.027	-5.968
11.5	35.406	5.871	5.653	13.5	31.194	8.013	5.966
13.5	35.274	5.945	5.664	15.5	31.217	7.996	5.964
15.5	35.140	6.020	5.674	17.5	31.246	7.975	5.962
17.5	35.004	6.096	5.684	19.5	31.281	7.951	5.959
19.5	34.867	-6.173	-5.694	21.5	31.322	-7.924	-5.956
21.5	34.729	6.251	5.705	23.5	31.370	7.894	5.952
23.5	34.590	6.328	5.716	25.5	31.424	7.860	5.948
25.5	34.449	6.405	5.727	27.5	31.483	7.824	5.944
27.5	34.307	6.482	5.738	29.5	31.548	7.785	5.939
29.5	34.165	-6.559	-5.749	31.5	31.619	-7.743	-5.933
März 2.5	34.022	6.636	5.760	Juni 2.5	31.696	7.698	5.927
4.5	33.880	6.713	5.771	4.5	31.778	7.651	5.921
6.5	33.739	6.789	5.782	6.5	31.866	7.600	5.915
8.5	33.600	6.864	5.792	8.5	31.960	7.547	5.908
10.5	33.463	-6.937	-5.802	10.5	32.059	-7.491	-5.901
12.5	33.327	7.009	5.812	12.5	32.163	7.433	5.894
14.5	33.193	7.079	5.822	14.5	32.272	7.372	5.886
16.5	33.062	7.147	5.831	16.5	32.387	7.309	5.877
18.5	32.933	7.213	5.841	18.5	32.506	7.243	5.868
20.5	32.806	-7.277	-5.851	20.5	32.631	-7.174	-5.859
22.5	32.682	7.340	5.861	22.5	32.761	7.102	5.850
24.5	32.562	7.401	5.870	24.5	32.894	7.028	5.840
26.5	32.445	7.459	5.878	26.5	33.032	6.951	5.830
28.5	32.232	7.515	5.886	28.5	33.175	6.872	5.819
30.5	32.123	-7.570	-5.894	30.5	33.322	-6.791	-5.808
April 1.5	32.118	7.623	5.901	Juli 2.5	33.473	6.708	5.797

Mittlere Zeit Greenwich	U	B	P	Mittlere Zeit Greenwich	U	B	P
1920				1920			
Juli 2.5	33.473	-6.708	-5.797	Okt. 2.5	42.891	-1.725	-5.035
4.5	33.628	6.623	5.785	4.5	43.103	1.616	5.016
6.5	33.787	6.536	5.773	6.5	43.313	1.508	4.998
8.5	33.949	6.448	5.760	8.5	43.521	1.401	4.980
10.5	34.116	6.358	5.747	10.5	43.728	1.296	4.962
12.5	34.286	-6.266	-5.734	12.5	43.933	-1.191	-4.944
14.5	34.460	6.173	5.720	14.5	44.136	1.088	4.926
16.5	34.637	6.077	5.706	16.5	44.337	0.987	4.908
18.5	34.818	5.980	5.692	18.5	44.535	0.887	4.891
20.5	35.001	5.881	5.679	20.5	44.731	0.789	4.874
22.5	35.188	-5.780	-5.665	22.5	44.924	-0.693	-4.857
24.5	35.378	5.678	5.650	24.5	45.114	0.598	4.840
26.5	35.570	5.575	5.635	26.5	45.300	0.505	4.824
28.5	35.765	5.470	5.620	28.5	45.483	0.414	4.808
30.5	35.963	5.364	5.604	30.5	45.663	0.324	4.792
Aug. 1.5	36.163	-5.257	-5.589	Nov. 1.5	45.840	-0.236	-4.776
3.5	36.365	5.149	5.573	3.5	46.013	0.151	4.761
5.5	36.569	5.040	5.557	5.5	46.183	-0.068	4.746
7.5	36.775	4.931	5.540	7.5	46.349	+0.012	4.731
9.5	36.983	4.821	5.524	9.5	46.511	0.091	4.716
11.5	37.193	-4.710	-5.507	11.5	46.669	+0.167	-4.702
13.5	37.404	4.597	5.490	13.5	46.823	0.240	4.688
15.5	37.617	4.484	5.473	15.5	46.972	0.311	4.675
17.5	37.832	4.370	5.456	17.5	47.116	0.379	4.662
19.5	38.048	4.256	5.439	19.5	47.256	0.444	4.650
21.5	38.266	-4.141	-5.422	21.5	47.391	+0.507	-4.637
23.5	38.485	4.025	5.404	23.5	47.521	0.567	4.625
25.5	38.705	3.909	5.386	25.5	47.646	0.624	4.613
27.5	38.925	3.792	5.368	27.5	47.765	0.679	4.602
29.5	39.146	3.676	5.350	29.5	47.880	0.731	4.592
31.5	39.367	-3.559	-5.331	Dez. 1.5	47.989	+0.779	-4.582
Sept. 2.5	39.589	3.441	5.313	3.5	48.093	0.825	4.572
4.5	39.811	3.324	5.294	5.5	48.192	0.868	4.563
6.5	40.033	3.207	5.276	7.5	48.285	0.908	4.555
8.5	40.256	3.091	5.257	9.5	48.372	0.944	4.547
10.5	40.478	-2.974	-5.239	11.5	48.453	+0.977	-4.540
12.5	40.701	2.858	5.220	13.5	48.528	1.007	4.533
14.5	40.924	2.742	5.202	15.5	48.597	1.033	4.527
16.5	41.146	2.627	5.183	17.5	48.660	1.055	4.521
18.5	41.368	2.512	5.164	19.5	48.717	1.074	4.516
20.5	41.589	-2.398	-5.145	21.5	48.767	+1.089	-4.511
22.5	41.809	2.284	5.127	23.5	48.811	1.101	4.507
24.5	42.028	2.171	5.108	25.5	48.848	1.111	4.504
26.5	42.246	2.059	5.090	27.5	48.879	1.118	4.501
28.5	42.462	1.947	5.071	29.5	48.904	1.122	4.498
30.5	42.677	-1.836	-5.053	31.5	48.921	+1.122	-4.496
Okt. 2.5	42.891	1.725	5.035				



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>						
1920					1920						
Jan.	0.5	295.927	241.76	1.46332	- 2.42	März	18.5	211.452	79.29	1.48427	- 3.83
	2.5	339.915	283.75	1.46475	- 2.44		20.5	255.439	121.28	1.48361	- 3.86
	4.5	23.903	325.73	1.46616	- 2.46		22.5	299.427	163.26	1.48289	- 3.88
	6.5	67.891	7.72	1.46754	- 2.48		24.5	343.414	205.25	1.48212	- 3.91
	8.5	111.879	49.71	1.46890	- 2.51		26.5	27.402	247.24	1.48129	- 3.93
	10.5	155.867	91.70	1.47023	- 2.53		28.5	71.389	289.22	1.48041	- 3.95
	12.5	199.855	133.69	1.47151	- 2.56		30.5	115.376	331.21	1.47948	- 3.97
	14.5	243.843	175.68	1.47276	- 2.59		April 1.5	159.364	13.20	1.47850	- 3.99
	16.5	287.831	217.67	1.47398	- 2.63		3.5	203.352	55.19	1.47747	- 4.01
	18.5	331.818	259.65	1.47515	- 2.66		5.5	247.339	97.18	1.47640	- 4.02
	20.5	15.806	301.64	1.47628	- 2.69		7.5	291.327	139.16	1.47528	- 4.03
	22.5	59.794	343.63	1.47737	- 2.73		9.5	335.314	181.15	1.47412	- 4.05
	24.5	103.781	25.62	1.47841	- 2.76		11.5	19.302	223.14	1.47292	- 4.05
	26.5	147.769	67.61	1.47940	- 2.80		13.5	63.290	265.12	1.47169	- 4.06
	28.5	191.757	109.59	1.48034	- 2.84		15.5	107.277	307.11	1.47042	- 4.06
30.5	235.745	151.58	1.48123	- 2.88	17.5	151.265	349.10	1.46911	- 4.07		
Febr.	1.5	279.733	193.57	1.48206	- 2.92	19.5	195.252	31.09	1.46777	- 4.07	
	3.5	323.720	235.56	1.48284	- 2.96	21.5	239.240	73.08	1.46640	- 4.06	
	5.5	7.708	277.55	1.48357	- 3.00	23.5	283.227	115.06	1.46501	- 4.06	
	7.5	51.696	319.53	1.48424	- 3.04	25.5	327.215	157.05	1.46359	- 4.06	
	9.5	95.684	1.52	1.48485	- 3.08	27.5	11.202	199.04	1.46215	- 4.05	
	11.5	139.672	43.51	1.48540	- 3.13	29.5	55.189	241.02	1.46068	- 4.04	
	13.5	183.659	85.50	1.48588	- 3.17	Mai 1.5	99.177	283.01	1.45920	- 4.03	
	15.5	227.647	127.49	1.48630	- 3.21	3.5	143.164	325.00	1.45770	- 4.02	
	17.5	271.635	169.48	1.48666	- 3.26	5.5	187.152	6.99	1.45619	- 4.00	
	19.5	315.622	211.46	1.48695	- 3.30	7.5	231.139	48.98	1.45466	- 3.98	
	21.5	359.610	253.45	1.48718	- 3.34	9.5	275.126	90.96	1.45312	- 3.97	
	23.5	43.598	295.44	1.48734	- 3.39	11.5	319.114	132.95	1.45157	- 3.95	
	25.5	87.586	337.43	1.48744	- 3.43	13.5	3.101	174.94	1.45002	- 3.93	
	27.5	131.574	19.41	1.48747	- 3.47	15.5	47.089	216.93	1.44846	- 3.91	
	29.5	175.562	61.40	1.48744	- 3.51	17.5	91.076	258.91	1.44690	- 3.88	
März	2.5	219.550	103.39	1.48734	- 3.55	19.5	135.063	300.90	1.44533	- 3.86	
	4.5	263.538	145.38	1.48718	- 3.59	21.5	179.051	342.88	1.44376	- 3.83	
	6.5	307.525	187.36	1.48695	- 3.63	23.5	223.038	24.87	1.44220	- 3.80	
	8.5	351.513	229.35	1.48666	- 3.67	25.5	267.025	66.86	1.44064	- 3.77	
	10.5	35.501	271.34	1.48631	- 3.70	27.5	311.013	108.84	1.43908	- 3.74	
	12.5	79.489	313.32	1.48589	- 3.74	29.5	355.000	150.83	1.43753	- 3.71	
	14.5	123.476	355.31	1.48541	- 3.77	31.5	38.987	192.82	1.43599	- 3.68	
	16.5	167.464	37.30	1.48487	- 3.80	Juni 2.5	82.974	234.80	1.43446	- 3.64	
	18.5	211.452	79.29	1.48427	- 3.83	4.5	126.961	276.79	1.43294	- 3.61	

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>MIMAS</b>					<b>ENCELADUS</b>				
1920					1920				
Juni 4.5	126.961	276.79	1.43294	- 3.61	Jan. 0.5	27.460	9.6	1.57153	- 3.10
6.5	170.948	318.78	1.43143	- 3.57	2.5	192.923	174.4	1.57296	- 3.13
8.5	214.936	0.77	1.42994	- 3.53	4.5	358.386	339.2	1.57437	- 3.16
10.5	258.923	42.75	1.42846	- 3.49	6.5	163.849	144.0	1.57575	- 3.19
12.5	302.911	84.74	1.42700	- 3.46	8.5	329.312	308.7	1.57711	- 3.22
14.5	346.898	126.73	1.42556	- 3.42	10.5	134.775	113.5	1.57844	- 3.25
16.5	30.886	168.71	1.42413	- 3.38	12.5	300.238	278.4	1.57972	- 3.29
18.5	74.873	210.70	1.42272	- 3.34	14.5	105.701	83.2	1.58097	- 3.33
20.5	118.861	252.69	1.42134	- 3.29	16.5	271.164	248.0	1.58219	- 3.37
22.5	162.848	294.68	1.41998	- 3.25	18.5	76.627	52.8	1.58336	- 3.41
24.5	206.835	336.66	1.41864	- 3.21	20.5	242.090	217.5	1.58449	- 3.45
26.5	250.822	18.65	1.41732	- 3.16	22.5	47.553	22.3	1.58558	- 3.50
28.5	294.809	60.64	1.41603	- 3.12	24.5	213.016	187.1	1.58662	- 3.55
Nov. 11.5	45.915	35.75	1.41254	+ 0.07	26.5	18.479	351.9	1.58761	- 3.59
13.5	89.902	77.73	1.41378	+ 0.11	28.5	183.942	156.7	1.58855	- 3.64
15.5	133.888	119.72	1.41504	+ 0.14	30.5	349.405	321.5	1.58944	- 3.69
17.5	177.875	161.71	1.41633	+ 0.17	Febr. 1.5	154.868	126.3	1.59027	- 3.74
19.5	221.861	203.69	1.41764	+ 0.20	3.5	320.330	291.1	1.59105	- 3.80
21.5	265.848	245.68	1.41898	+ 0.23	5.5	125.793	95.8	1.59178	- 3.85
23.5	309.834	287.67	1.42034	+ 0.26	7.5	291.256	260.6	1.59245	- 3.90
25.5	353.821	329.65	1.42172	+ 0.29	9.5	96.719	65.4	1.59306	- 3.96
27.5	37.807	11.64	1.42313	+ 0.31	11.5	262.182	230.2	1.59361	- 4.01
29.5	81.794	53.62	1.42456	+ 0.34	13.5	67.645	35.0	1.59409	- 4.07
Dez. 1.5	125.780	95.61	1.42600	+ 0.36	15.5	233.108	199.8	1.59451	- 4.12
3.5	169.767	137.60	1.42747	+ 0.38	17.5	38.571	4.6	1.59487	- 4.17
5.5	213.753	179.58	1.42895	+ 0.41	19.5	204.034	169.4	1.59516	- 4.23
7.5	257.740	221.57	1.43044	+ 0.43	21.5	9.497	334.2	1.59539	- 4.29
9.5	301.726	263.56	1.43195	+ 0.45	23.5	174.960	139.0	1.59555	- 4.34
11.5	345.713	305.54	1.43347	+ 0.46	25.5	340.423	303.8	1.59565	- 4.40
13.5	29.699	347.53	1.43500	+ 0.48	27.5	145.886	108.5	1.59568	- 4.45
15.5	73.685	29.51	1.43653	+ 0.49	29.5	311.349	273.3	1.59565	- 4.50
17.5	117.672	71.50	1.43807	+ 0.50	März 2.5	116.812	78.1	1.59555	- 4.55
19.5	161.658	113.48	1.43961	+ 0.52	4.5	282.275	242.9	1.59539	- 4.60
21.5	205.645	155.47	1.44116	+ 0.53	6.5	87.737	47.7	1.59516	- 4.65
23.5	249.631	197.46	1.44270	+ 0.53	8.5	253.200	212.5	1.59487	- 4.70
25.5	293.618	239.44	1.44425	+ 0.54	10.5	58.663	17.3	1.59452	- 4.75
27.5	337.604	281.43	1.44579	+ 0.54	12.5	224.125	182.1	1.59410	- 4.79
29.5	21.591	323.42	1.44733	+ 0.55	14.5	29.588	346.9	1.59362	- 4.83
31.5	65.578	5.41	1.44887	+ 0.55	16.5	195.051	151.6	1.59308	- 4.87
					18.5	0.514	316.4	1.59248	- 4.91

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>				
1920					1920				
März 18.5	0.514	316.4	1.59248	- 4.91	Juni 4.5	333.552	263.0	1.54115	- 4.63
20.5	165.976	121.2	1.59182	- 4.95	6.5	139.014	67.8	1.53964	- 4.58
22.5	331.439	286.0	1.59110	- 4.98	8.5	304.476	232.6	1.53815	- 4.53
24.5	136.902	90.8	1.59033	- 5.01	10.5	109.939	37.4	1.53667	- 4.49
26.5	202.364	255.6	1.58950	- 5.04	12.5	275.401	202.2	1.53521	- 4.44
28.5	7.827	60.4	1.58862	- 5.07	14.5	80.863	7.0	1.53377	- 4.39
30.5	273.290	225.2	1.58769	- 5.10	16.5	246.326	171.8	1.53234	- 4.33
April 1.5	78.752	29.9	1.58671	- 5.12	18.5	51.788	336.6	1.53093	- 4.28
3.5	244.215	194.7	1.58568	- 5.14	20.5	217.250	147.3	1.52955	- 4.23
5.5	49.677	359.5	1.58461	- 5.16	22.5	22.712	306.1	1.52819	- 4.17
7.5	215.140	164.3	1.58349	- 5.18	24.5	188.174	110.9	1.52685	- 4.12
9.5	20.603	329.1	1.58233	- 5.19	26.5	353.637	275.7	1.52553	- 4.06
11.5	186.066	133.9	1.58113	- 5.20	28.5	159.099	80.5	1.52424	- 4.00
13.5	351.528	298.7	1.57990	- 5.21	Nov. 11.5	250.533	126.0	1.52075	+ 0.10
15.5	156.991	103.5	1.57863	- 5.21	13.5	55.995	290.8	1.52199	+ 0.14
17.5	322.453	268.2	1.57732	- 5.22	15.5	221.457	95.6	1.52325	+ 0.18
19.5	127.915	73.0	1.57598	- 5.22	17.5	26.920	260.4	1.52454	+ 0.22
21.5	293.378	237.8	1.57461	- 5.22	19.5	192.382	65.2	1.52585	+ 0.26
23.5	98.840	42.6	1.57322	- 5.21	21.5	357.844	230.0	1.52719	+ 0.30
25.5	264.303	207.4	1.57180	- 5.21	23.5	163.306	34.8	1.52855	+ 0.33
27.5	69.765	12.2	1.57036	- 5.20	25.5	328.769	199.6	1.52993	+ 0.37
29.5	235.227	177.0	1.56889	- 5.19	27.5	134.231	4.3	1.53134	+ 0.40
Mai 1.5	40.690	341.8	1.56741	- 5.17	29.5	299.693	169.1	1.53277	+ 0.43
3.5	206.152	146.5	1.56591	- 5.15	Dez. 1.5	105.155	333.9	1.53421	+ 0.46
5.5	11.615	311.3	1.56440	- 5.13	3.5	270.618	138.7	1.53568	+ 0.49
7.5	177.077	116.1	1.56287	- 5.11	5.5	76.080	303.5	1.53716	+ 0.52
9.5	342.540	280.9	1.56133	- 5.09	7.5	241.542	108.3	1.53865	+ 0.55
11.5	148.002	85.7	1.55978	- 5.07	9.5	47.005	273.0	1.54016	+ 0.57
13.5	313.465	250.5	1.55823	- 5.04	11.5	212.467	77.8	1.54168	+ 0.59
15.5	118.927	55.3	1.55667	- 5.01	13.5	17.929	242.6	1.54321	+ 0.61
17.5	284.390	220.1	1.55511	- 4.98	15.5	183.391	47.4	1.54474	+ 0.63
19.5	89.852	24.8	1.55354	- 4.94	17.5	348.853	212.2	1.54628	+ 0.65
21.5	255.315	189.6	1.55197	- 4.91	19.5	154.316	17.0	1.54782	+ 0.66
23.5	60.777	354.4	1.55041	- 4.88	21.5	319.778	181.8	1.54937	+ 0.67
25.5	226.239	159.2	1.54885	- 4.84	23.5	125.240	346.6	1.55091	+ 0.68
27.5	31.702	323.9	1.54729	- 4.80	25.5	290.703	151.3	1.55246	+ 0.69
29.5	197.164	128.7	1.54574	- 4.76	27.5	96.165	316.1	1.55400	+ 0.70
31.5	2.627	293.5	1.54420	- 4.72	29.5	261.628	120.9	1.55554	+ 0.70
Juni 2.5	168.089	98.2	1.54267	- 4.67	31.5	67.091	285.6	1.55708	+ 0.71
4.5	333.552	263.0	1.54115	- 4.63					

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>TETHYS</b>					<b>TETHYS</b>				
1920					1920				
Jan.	0.5	340.523	1.66423	— 3.84	März	18.5	94.956	1.68518	— 6.07
	2.5	1.918	1.66566	— 3.87		20.5	116.351	1.68452	— 6.12
	4.5	23.314	1.66707	— 3.91		22.5	137.747	1.68380	— 6.17
	6.5	44.709	1.66845	— 3.95		24.5	159.142	1.68303	— 6.21
	8.5	66.105	1.66981	— 3.99		26.5	180.538	1.68220	— 6.24
	10.5	87.500	1.67114	— 4.03		28.5	201.933	1.68132	— 6.28
	12.5	108.896	1.67242	— 4.08		30.5	223.329	1.68039	— 6.31
	14.5	130.292	1.67367	— 4.13	April	1.5	244.725	1.67941	— 6.34
	16.5	151.688	1.67489	— 4.17		3.5	266.121	1.67838	— 6.37
	18.5	173.083	1.67606	— 4.22		5.5	287.517	1.67731	— 6.39
	20.5	194.479	1.67719	— 4.28		7.5	308.912	1.67619	— 6.41
	22.5	215.874	1.67828	— 4.33		9.5	330.308	1.67503	— 6.43
	24.5	237.270	1.67932	— 4.39		11.5	351.704	1.67383	— 6.44
	26.5	258.666	1.68031	— 4.45		13.5	13.099	1.67260	— 6.45
	28.5	280.062	1.68125	— 4.51		15.5	34.495	1.67133	— 6.45
	30.5	301.458	1.68214	— 4.57		17.5	55.891	1.67002	— 6.46
Febr.	1.5	322.853	1.68297	— 4.63		19.5	77.287	1.66868	— 6.46
	3.5	344.249	1.68375	— 4.70		21.5	98.682	1.66731	— 6.46
	5.5	5.644	1.68448	— 4.77		23.5	120.078	1.66592	— 6.45
	7.5	27.040	1.68515	— 4.83		25.5	141.473	1.66450	— 6.44
	9.5	48.435	1.68576	— 4.90		27.5	162.869	1.66306	— 6.43
	11.5	69.831	1.68631	— 4.97		29.5	184.264	1.66159	— 6.42
	13.5	91.227	1.68679	— 5.04	Mai	1.5	205.660	1.66011	— 6.40
	15.5	112.623	1.68721	— 5.11		3.5	227.056	1.65861	— 6.38
	17.5	134.019	1.68757	— 5.18		5.5	248.452	1.65710	— 6.35
	19.5	155.415	1.68786	— 5.24		7.5	269.848	1.65557	— 6.33
	21.5	176.810	1.68809	— 5.31		9.5	291.243	1.65403	— 6.30
	23.5	198.206	1.68825	— 5.38		11.5	312.639	1.65248	— 6.27
	25.5	219.602	1.68835	— 5.44		13.5	334.035	1.65093	— 6.24
	27.5	240.998	1.68838	— 5.51		15.5	355.430	1.64937	— 6.21
	29.5	262.394	1.68835	— 5.57		17.5	16.826	1.64781	— 6.17
März	2.5	283.790	1.68825	— 5.64		19.5	38.222	1.64624	— 6.13
	4.5	305.186	1.68809	— 5.70		21.5	59.618	1.64467	— 6.08
	6.5	326.581	1.68786	— 5.76		23.5	81.014	1.64311	— 6.04
	8.5	347.977	1.68757	— 5.82		25.5	102.409	1.64155	— 5.99
	10.5	9.373	1.68722	— 5.88		27.5	123.805	1.63999	— 5.94
	12.5	30.769	1.68680	— 5.93		29.5	145.201	1.63844	— 5.89
	14.5	52.164	1.68632	— 5.98		31.5	166.596	1.63690	— 5.84
	16.5	73.560	1.68578	— 6.02	Juni	2.5	187.992	1.63537	— 5.79
	18.5	94.956	1.68518	— 6.07		4.5	209.388	1.63385	— 5.73

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>					
1920					1920					
Juni	4.5	209.388	1.63385	-5.73	Jan.	0.5	22.645	110.5	1.77170	-4.92
	6.5	230.784	1.63234	-5.67		2.5	285.715	13.4	1.77313	-4.96
	8.5	252.180	1.63085	-5.61		4.5	188.784	276.3	1.77454	-5.01
	10.5	273.575	1.62937	-5.55		6.5	91.854	179.2	1.77592	-5.05
	12.5	294.971	1.62791	-5.49		8.5	354.924	82.1	1.77728	-5.10
	14.5	316.367	1.62647	-5.43		10.5	257.994	345.0	1.77861	-5.16
	16.5	337.762	1.62504	-5.36		12.5	161.064	247.9	1.77989	-5.22
	18.5	359.158	1.62363	-5.30		14.5	64.134	150.8	1.78114	-5.29
	20.5	20.554	1.62225	-5.23		16.5	327.203	53.7	1.78236	-5.35
	22.5	41.950	1.62089	-5.16		18.5	230.273	316.6	1.78353	-5.41
	24.5	63.346	1.61955	-5.09		20.5	133.342	219.5	1.78466	-5.48
	26.5	84.741	1.61823	-5.02		22.5	36.412	122.4	1.78575	-5.55
	28.5	106.137	1.61694	-4.95		24.5	299.482	25.3	1.78679	-5.62
Nov.	11.5	121.048	1.61345	+0.12		26.5	202.552	288.2	1.78778	-5.70
	13.5	142.444	1.61469	+0.17		28.5	105.621	191.1	1.78872	-5.77
	15.5	163.840	1.61595	+0.22	Febr.	30.5	8.691	94.0	1.78961	-5.85
	17.5	185.235	1.61724	+0.27		1.5	271.761	356.9	1.79044	-5.94
	19.5	206.631	1.61855	+0.32		3.5	174.831	259.8	1.79122	-6.02
	21.5	228.026	1.61989	+0.37		5.5	77.901	162.7	1.79195	-6.10
	23.5	249.422	1.62125	+0.41		7.5	340.971	65.6	1.79262	-6.19
	25.5	270.817	1.62263	+0.46		9.5	244.040	328.5	1.79323	-6.28
	27.5	292.213	1.62404	+0.50		11.5	147.110	231.4	1.79378	-6.36
	29.5	313.609	1.62547	+0.54		13.5	50.180	134.3	1.79426	-6.45
Dez.	1.5	335.005	1.62691	+0.58		15.5	313.250	37.2	1.79468	-6.54
	3.5	356.400	1.62838	+0.61		17.5	216.320	300.1	1.79504	-6.63
	5.5	17.796	1.62986	+0.65		19.5	119.390	203.0	1.79533	-6.71
	7.5	39.192	1.63135	+0.68		21.5	22.460	105.9	1.79556	-6.80
	9.5	60.587	1.63286	+0.71		23.5	285.529	8.8	1.79572	-6.89
	11.5	81.983	1.63438	+0.73		25.5	188.599	271.7	1.79582	-6.97
	13.5	103.379	1.63591	+0.76		27.5	91.669	174.6	1.79585	-7.05
	15.5	124.775	1.63744	+0.78		29.5	354.739	77.5	1.79582	-7.14
	17.5	146.171	1.63898	+0.80	März	2.5	257.809	340.4	1.79572	-7.22
	19.5	167.567	1.64052	+0.82		4.5	160.879	243.3	1.79556	-7.30
	21.5	188.963	1.64207	+0.83		6.5	63.948	146.2	1.79533	-7.38
	23.5	210.359	1.64361	+0.85		8.5	327.018	49.1	1.79504	-7.46
	25.5	231.755	1.64516	+0.86		10.5	230.088	312.0	1.79469	-7.53
	27.5	253.151	1.64670	+0.86		12.5	133.158	214.9	1.79427	-7.60
	29.5	274.547	1.64824	+0.87		14.5	36.227	117.8	1.79379	-7.67
	31.5	295.943	1.64978	+0.87		16.5	299.297	20.7	1.79325	-7.73
						18.5	202.367	283.6	1.79265	-7.79

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>DIONE</b>					<b>DIONE</b>				
1920					1920				
März 18.5	202.367	283.6	1.79265	-7.79	Juni 4.5	22.089	96.7	1.74132	-7.34
20.5	105.437	186.5	1.79199	-7.85	6.5	285.159	359.6	1.73981	-7.26
22.5	8.506	89.4	1.79127	-7.91	8.5	188.229	262.5	1.73832	-7.19
24.5	271.576	352.3	1.79050	-7.96	10.5	91.298	165.4	1.73684	-7.11
26.5	174.646	255.2	1.78967	-8.00	12.5	354.368	68.3	1.73538	-7.03
28.5	77.715	158.1	1.78879	-8.04	14.5	257.438	331.2	1.73394	-6.95
30.5	340.785	61.0	1.78786	-8.08	16.5	160.508	234.1	1.73251	-6.87
April 1.5	243.855	323.9	1.78688	-8.12	18.5	63.577	137.0	1.73110	-6.79
3.5	146.925	226.8	1.78585	-8.15	20.5	326.647	39.9	1.72972	-6.70
5.5	49.995	129.7	1.78478	-8.18	22.5	229.717	302.8	1.72836	-6.61
7.5	313.064	32.6	1.78366	-8.21	24.5	132.787	205.7	1.72702	-6.53
9.5	216.134	295.5	1.78250	-8.23	26.5	35.857	108.6	1.72570	-6.44
11.5	119.204	198.4	1.78130	-8.25	28.5	298.926	11.5	1.72441	-6.34
13.5	22.273	101.3	1.78007	-8.26	Nov. 11.5	187.675	248.7	1.72092	+0.15
15.5	285.343	4.2	1.77880	-8.27	13.5	90.745	151.6	1.72216	+0.22
17.5	188.413	267.1	1.77749	-8.27	15.5	353.815	54.5	1.72342	+0.29
19.5	91.483	170.0	1.77615	-8.27	17.5	256.884	317.4	1.72471	+0.35
21.5	354.553	72.9	1.77478	-8.27	19.5	159.954	220.3	1.72602	+0.41
23.5	257.622	335.8	1.77339	-8.26	21.5	63.024	123.2	1.72736	+0.47
25.5	160.692	238.7	1.77197	-8.25	23.5	326.093	26.1	1.72872	+0.53
27.5	63.762	141.6	1.77053	-8.24	25.5	229.163	289.0	1.73010	+0.59
29.5	326.831	44.5	1.76906	-8.22	27.5	132.233	191.9	1.73151	+0.64
Mai 1.5	229.901	307.4	1.76758	-8.20	29.5	35.303	94.8	1.73294	+0.69
3.5	132.971	210.3	1.76608	-8.17	Dez. 1.5	298.373	357.7	1.73438	+0.74
5.5	36.041	113.2	1.76457	-8.14	3.5	201.443	260.6	1.73585	+0.78
7.5	299.111	16.1	1.76304	-8.11	5.5	104.513	163.5	1.73733	+0.83
9.5	202.181	279.0	1.76150	-8.07	7.5	7.582	66.4	1.73882	+0.87
11.5	105.251	181.9	1.75995	-8.03	9.5	270.652	329.3	1.74033	+0.91
13.5	8.321	84.8	1.75840	-7.99	11.5	173.722	232.2	1.74185	+0.94
15.5	271.391	347.7	1.75684	-7.95	13.5	76.792	135.1	1.74338	+0.97
17.5	174.461	250.6	1.75528	-7.90	15.5	339.862	38.0	1.74491	+1.00
19.5	77.530	153.5	1.75371	-7.85	17.5	242.932	300.9	1.74645	+1.03
21.5	340.600	56.4	1.75214	-7.79	19.5	146.002	203.8	1.74799	+1.05
23.5	243.670	319.3	1.75058	-7.73	21.5	49.072	106.7	1.74954	+1.07
25.5	146.740	222.2	1.74902	-7.67	23.5	312.141	9.6	1.75108	+1.08
27.5	49.810	125.1	1.74746	-7.61	25.5	215.211	272.5	1.75263	+1.10
29.5	312.880	28.0	1.74591	-7.55	27.5	118.280	175.4	1.75417	+1.11
31.5	215.949	290.9	1.74437	-7.48	29.5	21.350	78.3	1.75571	+1.12
Juni 2.5	119.019	193.8	1.74284	-7.41	31.5	284.420	341.2	1.75725	+1.12
4.5	22.089	96.7	1.74132	-7.34					

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>				
1920					1920				
Jan. 0.5	311.535	182.1	1.91674	— 6.87	März 18.5	47.353	275.7	1.93769	— 10.88
2.5	110.915	341.4	1.91817	— 6.93	20.5	206.733	75.0	1.93703	— 10.96
4.5	270.295	140.8	1.91958	— 6.99	22.5	6.113	234.4	1.93631	— 11.03
6.5	69.674	300.1	1.92096	— 7.06	24.5	165.493	33.7	1.93554	— 11.10
8.5	229.054	99.4	1.92232	— 7.13	26.5	324.873	193.0	1.93471	— 11.17
10.5	28.434	258.7	1.92365	— 7.20	28.5	124.253	352.4	1.93383	— 11.23
12.5	187.814	58.0	1.92493	— 7.28	30.5	283.633	151.7	1.93290	— 11.29
14.5	347.194	217.3	1.92618	— 7.37	April 1.5	83.012	311.0	1.93192	— 11.34
16.5	146.574	16.6	1.92740	— 7.46	3.5	242.392	110.3	1.93089	— 11.39
18.5	305.954	176.0	1.92857	— 7.55	5.5	41.772	269.6	1.92982	— 11.43
20.5	105.334	335.3	1.92970	— 7.65	7.5	201.152	69.0	1.92870	— 11.46
22.5	264.714	134.6	1.93079	— 7.75	9.5	0.532	228.3	1.92754	— 11.49
24.5	64.094	294.0	1.93183	— 7.85	11.5	159.912	27.6	1.92634	— 11.51
26.5	223.474	93.3	1.93282	— 7.96	13.5	319.292	187.0	1.92511	— 11.53
28.5	22.854	252.6	1.93376	— 8.07	15.5	118.672	346.3	1.92384	— 11.54
30.5	182.234	51.9	1.93465	— 8.18	17.5	278.052	145.6	1.92253	— 11.55
Febr. 1.5	341.614	211.2	1.93548	— 8.29	19.5	77.432	304.9	1.92119	— 11.55
3.5	140.994	10.6	1.93626	— 8.41	21.5	236.812	104.2	1.91982	— 11.55
5.5	300.374	169.9	1.93699	— 8.53	23.5	36.192	263.6	1.91843	— 11.54
7.5	99.753	329.2	1.93766	— 8.65	25.5	195.572	62.9	1.91701	— 11.52
9.5	259.133	128.6	1.93827	— 8.77	27.5	354.951	222.2	1.91557	— 11.50
11.5	58.513	287.9	1.93882	— 8.89	29.5	154.331	21.5	1.91410	— 11.48
13.5	217.893	87.2	1.93930	— 9.01	Mai 1.5	313.711	180.9	1.91262	— 11.45
15.5	17.273	246.5	1.93972	— 9.13	3.5	113.091	340.2	1.91112	— 11.41
17.5	176.653	45.8	1.94008	— 9.25	5.5	272.471	139.5	1.90961	— 11.37
19.5	336.033	205.2	1.94037	— 9.37	7.5	71.851	298.8	1.90808	— 11.33
21.5	135.413	4.5	1.94060	— 9.50	9.5	231.231	98.1	1.90654	— 11.28
23.5	294.793	163.8	1.94076	— 9.62	11.5	30.611	257.5	1.90499	— 11.22
25.5	94.173	323.1	1.94086	— 9.74	13.5	189.991	56.8	1.90344	— 11.16
27.5	253.553	122.4	1.94089	— 9.85	15.5	349.370	216.1	1.90188	— 11.10
29.5	52.933	281.8	1.94086	— 9.97	17.5	148.750	15.5	1.90032	— 11.03
März 2.5	212.313	81.1	1.94076	— 10.08	19.5	308.130	174.8	1.89875	— 10.96
4.5	11.693	240.4	1.94060	— 10.19	21.5	107.510	334.1	1.89718	— 10.88
6.5	171.073	39.8	1.94037	— 10.30	23.5	266.890	133.4	1.89562	— 10.80
8.5	330.453	199.1	1.94008	— 10.41	25.5	66.270	292.8	1.89406	— 10.72
10.5	129.833	358.4	1.93973	— 10.51	27.5	225.650	92.1	1.89250	— 10.63
12.5	289.213	157.8	1.93931	— 10.61	29.5	25.030	251.4	1.89095	— 10.54
14.5	88.593	317.1	1.93883	— 10.70	31.5	184.410	50.8	1.88941	— 10.45
16.5	247.973	116.4	1.93829	— 10.79	Juni 2.5	343.790	210.1	1.88788	— 10.35
18.5	47.353	275.7	1.93769	— 10.88	4.5	143.170	9.4	1.88636	— 10.25

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>	$\log \frac{\alpha(\Delta)}{\Delta}$	$\frac{\alpha(\Delta)}{\Delta} \sin E$
RHEA					RHEA				
1920					1920				
Juni 4.5	143.170	9.4	1.88636	-10.25	Nov. 21.5	10.465	232.0	1.87240	+0.66
6.5	302.550	168.7	1.88485	-10.15	23.5	169.844	31.3	1.87376	+0.74
8.5	101.930	328.0	1.88336	-10.04	25.5	329.224	190.7	1.87514	+0.82
10.5	261.310	127.3	1.88188	-9.93	27.5	128.604	350.0	1.87655	+0.89
12.5	60.690	286.7	1.88042	-9.82	29.5	287.984	149.3	1.87798	+0.96
14.5	220.070	86.0	1.87898	-9.71	Dez. 1.5	87.364	308.6	1.87942	+1.03
16.5	19.449	245.3	1.87755	-9.60	3.5	246.744	108.0	1.88089	+1.09
18.5	178.829	44.6	1.87614	-9.48	5.5	46.124	267.3	1.88237	+1.15
20.5	338.209	204.0	1.87476	-9.36	7.5	205.504	66.6	1.88386	+1.21
22.5	137.589	3.3	1.87340	-9.24	9.5	4.884	226.0	1.88537	+1.26
24.5	296.969	162.6	1.87206	-9.11	11.5	164.264	25.3	1.88689	+1.31
26.5	96.349	322.0	1.87074	-8.99	13.5	323.644	184.6	1.88842	+1.36
28.5	255.729	121.3	1.86945	-8.86	15.5	123.024	343.9	1.88995	+1.40
Nov. 11.5	293.565	155.4	1.86596	+0.21	17.5	282.404	143.2	1.89149	+1.43
13.5	92.945	314.7	1.86720	+0.31	19.5	81.784	302.6	1.89303	+1.46
15.5	252.325	114.0	1.86846	+0.40	21.5	241.164	101.9	1.89458	+1.49
17.5	51.705	273.4	1.86975	+0.49	23.5	40.543	261.2	1.89612	+1.51
19.5	211.085	72.7	1.87106	+0.58	25.5	199.923	60.6	1.89767	+1.53
21.5	10.465	232.0	1.87240	+0.66	27.5	359.303	219.9	1.89921	+1.54
					29.5	158.683	19.2	1.90075	+1.55
					31.5	318.063	178.5	1.90229	+1.56



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

Zeit	Mimas		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	0.548	0.5	0.397	0.274	0.3	0.166	0.1
4	1.062	1.06	0.730	0.7	0.530	0.366	0.4	0.222	0.2
5	1.327	1.32	0.912	0.9	0.662	0.457	0.4	0.277	0.2
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
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	Mimas		Enceladus		Dione		Rhea		M
	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	
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

M	Mimas		Enceladus		Dione		Rhea		M
	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	
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		♄					♃	N	J	ω
		Mimas	Encel.	Tethys	Dione	Rhea	Rhea	Saturnsring		
1919	Dez. 19.5	227.6	191.4	277.4	277.7	83.8	18.41	127.213	6.841	42.305
1920	Jan. 4.5	211.6	184.7	274.3	276.3	83.3	18.40	127.215	6.840	42.304
	20.5	195.6	178.0	271.1	275.0	82.8	18.39	127.217	6.840	42.303
Febr.	5.5	179.6	171.3	268.0	273.6	82.3	18.38	127.219	6.840	42.301
	21.5	163.6	164.6	264.8	272.2	81.8	18.37	127.220	6.840	42.300
März	8.5	147.6	157.9	261.6	270.9	81.3	18.36	127.222	6.840	42.299
	24.5	131.6	151.2	258.4	269.6	80.9	18.34	127.224	6.839	42.298
April	9.5	115.5	144.5	255.2	268.2	80.4	18.33	127.226	6.839	42.296
	25.5	99.5	137.8	252.0	266.8	79.9	18.32	127.228	6.839	42.295
Mai	11.5	83.5	131.1	248.8	265.4	79.4	18.31	127.229	6.839	42.294
	27.5	67.5	124.5	245.7	264.1	79.0	18.30	127.231	6.838	42.293
Juni	12.5	51.5	117.8	242.6	262.8	78.5	18.29	127.233	6.838	42.291
	28.5	35.5	111.1	239.4	261.4	78.0	18.28	127.235	6.838	42.290
Juli	14.5	19.5	104.4	236.2	260.0	77.5	18.27	127.237	6.838	42.289
	30.5	3.5	97.7	233.0	258.6	77.0	18.26	127.238	6.838	42.288
Aug.	15.5	347.5	91.0	229.8	257.3	76.5	18.25	127.240	6.838	42.287
	31.5	331.5	84.3	226.6	256.0	76.0	18.23	127.242	6.837	42.285
Sept.	16.5	315.5	77.7	223.5	254.6	75.5	18.22	127.244	6.837	42.284
	Okt. 2.5	299.5	71.0	220.3	253.2	75.0	18.21	127.246	6.837	42.283
Okt.	18.5	283.5	64.3	217.2	251.8	74.5	18.20	127.247	6.837	42.282
	Nov. 3.5	267.5	57.6	214.0	250.4	74.1	18.19	127.249	6.836	42.280
Nov.	19.5	251.5	50.9	210.8	249.1	73.6	18.18	127.251	6.836	42.279
	Dec. 5.5	235.5	44.2	207.6	247.8	73.1	18.17	127.253	6.836	42.278
Dec.	21.5	219.5	37.5	204.4	246.4	72.6	18.16	127.254	6.836	42.277
	37.5	203.5	30.8	201.2	245.0	72.1	18.15	127.256	6.836	42.276

$\log \frac{1}{1+\zeta}$ , 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			
	<i>U</i>	<i>B</i>	<i>P</i>	<i>U</i>	<i>B</i>	<i>P</i>	<i>U</i>	<i>B</i>	<i>P</i>	
<b>1920</b>										
<b>Jan.</b>	0.5	38.729	-4.838	-5.125	33.929	-5.410	-5.259	112.007	+4.472	+5.411
	2.5	38.701	4.865	5.126	33.901	5.433	5.262	111.975	4.454	5.404
	4.5	38.666	4.894	5.128	33.867	5.460	5.265	111.935	4.434	5.395
	6.5	38.625	4.925	5.132	33.827	5.491	5.268	111.890	4.411	5.385
	8.5	38.578	4.959	5.136	33.781	5.525	5.272	111.838	4.386	5.373
	10.5	38.526	-4.995	-5.140	33.727	-5.562	-5.276	111.780	+4.359	+5.360
	12.5	38.467	5.034	5.145	33.666	5.602	5.280	111.715	4.330	5.345
	14.5	38.402	5.076	5.151	33.600	5.645	5.284	111.644	4.299	5.329
	16.5	38.331	5.122	5.157	33.528	5.690	5.289	111.566	4.267	5.311
	18.5	38.253	5.170	5.163	33.451	5.739	5.294	111.481	4.233	5.292
	20.5	38.170	-5.220	-5.170	33.368	-5.790	-5.300	111.391	+4.198	+5.271
	22.5	38.082	5.273	5.177	33.281	5.844	5.306	111.295	4.161	5.249
	24.5	37.989	5.329	5.185	33.188	5.901	5.313	111.193	4.122	5.226
	26.5	37.891	5.387	5.192	33.090	5.960	5.320	111.087	4.082	5.202
	28.5	37.788	5.448	5.200	32.987	6.020	5.327	110.975	4.040	5.176
	30.5	37.681	-5.511	-5.208	32.877	-6.082	-5.334	110.859	+3.997	+5.150
<b>Febr.</b>	1.5	37.570	5.576	5.216	32.763	6.146	5.342	110.738	3.954	5.122
	3.5	37.455	5.643	5.224	32.645	6.212	5.350	110.614	3.909	5.093
	5.5	37.335	5.711	5.233	32.524	6.279	5.358	110.485	3.864	5.063
	7.5	37.212	5.780	5.243	32.402	6.349	5.366	110.352	3.817	5.032
	9.5	37.085	-5.851	-5.253	32.278	-6.420	-5.375	110.216	+3.770	+5.001
	11.5	36.956	5.923	5.263	32.151	6.492	5.383	110.077	3.721	4.969
	13.5	36.824	5.996	5.274	32.021	6.566	5.392	109.935	3.672	4.937
	15.5	36.690	6.071	5.284	31.888	6.641	5.401	109.790	3.621	4.904
	17.5	36.553	6.146	5.294	31.752	6.717	5.410	109.644	3.571	4.870
	19.5	36.415	-6.222	-5.304	31.613	-6.793	-5.419	109.496	+3.521	+4.835
	21.5	36.276	6.299	5.314	31.473	6.870	5.429	109.346	3.471	4.800
	23.5	36.136	6.376	5.324	31.332	6.947	5.439	109.195	3.421	4.764
	25.5	35.995	6.452	5.335	31.190	7.024	5.449	109.043	3.371	4.728
	27.5	35.853	6.528	5.346	31.048	7.100	5.458	108.890	3.320	4.692
	29.5	35.711	-6.604	-5.357	30.906	-7.176	-5.468	108.737	+3.270	+4.657
<b>März</b>	2.5	35.568	6.679	5.368	30.764	7.251	5.477	108.585	3.220	4.622
	4.5	35.426	6.754	5.379	30.622	7.326	5.486	108.434	3.171	4.587
	6.5	35.285	6.828	5.390	30.480	7.401	5.495	108.284	3.123	4.552
	8.5	35.145	6.902	5.401	30.340	7.476	5.504	108.135	3.075	4.517
	10.5	35.007	-6.974	-5.411	30.201	-7.549	-5.513	107.988	+3.029	+4.482
	12.5	34.870	7.045	5.420	30.064	7.621	5.521	107.843	2.984	4.448
	14.5	34.735	7.114	5.430	29.929	7.690	5.530	107.700	2.940	4.414
	16.5	34.603	7.182	5.439	29.796	7.758	5.538	107.559	2.896	4.381
	18.5	34.473	7.248	5.448	29.665	7.824	5.546	107.421	2.853	4.349

Mittlere Zeit Greenwich	TITAN			HYPERION			JAPETUS		
	U	B	P	U	B	P	U	B	P
1920									
März 18.5	34.473	-7.248	-5.448	29.665	-7.824	-5.546	107.421	+2.853	+4.349
20.5	34.346	7.313	5.457	29.537	7.888	5.554	107.285	2.810	4.317
22.5	34.222	7.376	5.466	29.413	7.950	5.562	107.153	2.769	4.286
24.5	34.101	7.437	5.475	29.292	8.010	5.570	107.025	2.729	4.255
26.5	33.984	7.496	5.484	29.176	8.069	5.577	106.902	2.691	4.225
28.5	33.871	-7.552	-5.492	29.064	-8.126	-5.584	106.782	+2.654	+4.197
30.5	33.763	7.605	5.500	28.956	8.180	5.591	106.667	2.619	4.169
April 1.5	33.659	7.656	5.507	28.851	8.232	5.597	106.556	2.586	4.142
3.5	33.559	7.703	5.514	28.750	8.281	5.604	106.450	2.554	4.117
5.5	33.464	7.748	5.521	28.654	8.327	5.610	106.350	2.524	4.093
7.5	33.374	-7.790	-5.528	28.563	-8.370	-5.616	106.255	+2.496	+4.071
9.5	33.289	7.830	5.534	28.477	8.410	5.621	106.166	2.470	4.050
11.5	33.210	7.867	5.539	28.397	8.447	5.626	106.083	2.447	4.030
13.5	33.136	7.902	5.544	28.323	8.480	5.631	106.005	2.426	4.011
15.5	33.067	7.934	5.549	28.254	8.510	5.635	105.933	2.407	3.994
17.5	33.003	-7.962	-5.553	28.191	-8.538	-5.639	105.867	+2.390	+3.978
19.5	32.945	7.987	5.557	28.133	8.563	5.643	105.807	2.375	3.963
21.5	32.893	8.008	5.561	28.081	8.585	5.646	105.753	2.362	3.950
23.5	32.846	8.027	5.565	28.034	8.604	5.649	105.706	2.351	3.938
25.5	32.806	8.042	5.568	27.994	8.619	5.652	105.665	2.342	3.929
27.5	32.772	-8.054	-5.570	27.961	-8.631	-5.654	105.631	+2.336	+3.921
29.5	32.745	8.063	5.571	27.934	8.639	5.655	105.603	2.332	3.914
Mai 1.5	32.724	8.069	5.573	27.913	8.644	5.656	105.582	2.330	3.909
3.5	32.710	8.072	5.574	27.899	8.646	5.657	105.568	2.330	3.906
5.5	32.702	8.071	5.574	27.891	8.645	5.658	105.561	2.332	3.904
7.5	32.700	-8.067	-5.575	27.888	-8.642	-5.658	105.560	+2.336	+3.904
9.5	32.705	8.060	5.574	27.891	8.636	5.658	105.566	2.342	3.905
11.5	32.715	8.050	5.573	27.901	8.626	5.657	105.578	2.350	3.908
13.5	32.732	8.036	5.571	27.918	8.613	5.656	105.597	2.361	3.913
15.5	32.755	8.019	5.569	27.941	8.597	5.654	105.622	2.374	3.919
17.5	32.785	-7.999	-5.567	27.970	-8.577	-5.652	105.654	+2.389	+3.927
19.5	32.820	7.976	5.564	28.005	8.554	5.649	105.692	2.406	3.936
21.5	32.862	7.950	5.561	28.046	8.527	5.647	105.738	2.426	3.947
23.5	32.909	7.920	5.558	28.093	8.497	5.644	105.790	2.447	3.959
25.5	32.962	7.888	5.554	28.146	8.464	5.641	105.849	2.471	3.973
27.5	33.022	-7.852	-5.550	28.206	-8.428	-5.638	105.914	+2.496	+3.988
29.5	33.087	7.814	5.545	28.271	8.389	5.634	105.985	2.523	4.005
31.5	33.158	7.772	5.540	28.343	8.347	5.629	106.062	2.552	4.023
Juni 2.5	33.235	7.728	5.534	28.420	8.303	5.624	106.145	2.583	4.043
4.5	33.318	7.680	5.528	28.503	8.256	5.619	106.233	2.616	4.065

Mittlere Zeit Greenwich	TITAN			HYPERION			JAPETUS		
	U	B	P	U	B	P	U	B	P
1920									
Juni 4.5	33.318	-7.680	-5.528	28.503	-8.256	-5.619	106.233	+2.616	+4.065
6.5	33.407	7.630	5.522	28.591	8.205	5.614	106.327	2.651	4.087
8.5	33.501	7.577	5.515	28.685	8.152	5.608	106.428	2.688	4.111
10.5	33.600	7.522	5.508	28.784	8.096	5.602	106.534	2.726	4.136
12.5	33.705	7.464	5.501	28.888	8.038	5.596	106.647	2.766	4.163
14.5	33.814	-7.404	-5.493	28.998	-7.977	-5.589	106.765	+2.808	+4.191
16.5	33.929	7.341	5.484	29.113	7.914	5.582	106.888	2.851	4.220
18.5	34.048	7.276	5.475	29.232	7.848	5.575	107.017	2.896	4.251
20.5	34.172	7.208	5.466	29.357	7.780	5.567	107.151	2.942	4.283
22.5	34.301	7.138	5.457	29.486	7.709	5.559	107.290	2.990	4.316
24.5	34.435	-7.064	-5.447	29.620	-7.636	-5.550	107.435	+3.039	+4.350
26.5	34.574	6.988	5.437	29.758	7.560	5.542	107.584	3.090	4.385
28.5	34.717	6.910	5.427	29.901	7.482	5.533	107.739	3.142	4.421
Nov. 11.5	48.264	+0.040	-4.332	43.420	-0.486	-4.576	122.418	+7.388	+7.692
13.5	48.418	0.112	4.318	43.574	0.413	4.564	122.586	7.426	7.727
15.5	48.567	0.182	4.305	43.724	0.343	4.553	122.748	7.463	7.761
17.5	48.712	0.249	4.292	43.869	0.275	4.542	122.906	7.498	7.794
19.5	48.852	0.314	4.280	44.009	0.210	4.531	123.058	7.532	7.826
21.5	48.987	+0.376	-4.268	44.144	-0.148	-4.520	123.205	+7.564	+7.856
23.5	49.117	0.436	4.257	44.273	0.089	4.510	123.347	7.595	7.885
25.5	49.242	0.493	4.246	44.397	-0.032	4.500	123.483	7.624	7.913
27.5	49.362	0.546	4.236	44.516	+0.022	4.490	123.614	7.652	7.940
29.5	49.478	0.596	4.226	44.630	0.073	4.481	123.739	7.678	7.966
Dez. 1.5	49.588	+0.644	-4.216	44.740	+0.122	-4.473	123.859	+7.702	+7.991
3.5	49.693	0.688	4.207	44.844	0.167	4.465	123.972	7.724	8.014
5.5	49.792	0.730	4.198	44.943	0.210	4.457	124.079	7.744	8.035
7.5	49.885	0.769	4.190	45.036	0.250	4.450	124.179	7.762	8.056
9.5	49.972	0.805	4.183	45.123	0.287	4.443	124.273	7.778	8.075
11.5	50.053	+0.838	-4.176	45.204	+0.320	-4.437	124.360	+7.792	+8.093
13.5	50.129	0.868	4.169	45.279	0.350	4.431	124.441	7.804	8.109
15.5	50.198	0.894	4.163	45.347	0.376	4.425	124.515	7.815	8.124
17.5	50.261	0.916	4.157	45.409	0.399	4.420	124.582	7.824	8.138
19.5	50.318	0.935	4.151	45.464	0.418	4.415	124.642	7.831	8.151
21.5	50.368	+0.950	-4.146	45.514	+0.434	-4.410	124.696	+7.836	+8.162
23.5	50.412	0.963	4.142	45.558	0.447	4.407	124.743	7.839	8.172
25.5	50.450	0.973	4.139	45.596	0.456	4.405	124.782	7.840	8.180
27.5	50.481	0.979	4.136	45.627	0.462	4.403	124.815	7.840	8.187
29.5	50.506	0.981	4.134	45.653	0.464	4.401	124.841	7.837	8.192
31.5	50.524	0.980	4.134	45.672	0.464	4.398	124.858	7.830	8.195

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS				
	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$					
1920													
Jan. 1.5	+ 2.78	+19.2	+13.32	+30.9	-31.94	+67.7							
2.5	- 2.37	+12.7	+ 9.99	+30.8	-30.36	+68.4							
3.5	- 7.16	+ 4.2	+ 5.80	+28.0	-28.62	+68.7							
4.5	-10.85	- 5.0	+ 1.09	+22.7	-26.70	+68.6							
5.5	-12.92	-13.6	- 3.75	+15.1	-24.60	+68.0							
6.5	-13.11	-20.3	- 8.20	+ 5.8	-22.35	+66.9							
7.5	-11.43	-24.0	-11.74	- 4.2	-19.95	+65.5							
8.5	- 8.12	-24.5	-13.92	-13.7	-17.43	+63.6							
9.5	- 3.65	-21.5	-14.52	-21.7	-14.80	+61.3							
10.5	+ 1.35	-15.4	-13.51	-27.5	-12.06	+58.6							
11.5	+ 6.17	- 7.0	-11.12	-30.4	- 9.24	+55.6							
12.5	+10.07	+ 2.5	- 7.62	-30.5	- 6.36	+52.2							
13.5	+12.40	+11.7	- 3.44	-27.9	- 3.43	+48.5							
14.5	+12.72	+19.0	+ 1.01	-23.0	- 0.47	+44.5							
15.5	+10.95	+23.3	+ 5.42	-16.4	+ 2.50	+40.3							
16.5	+ 7.33	+23.8	+ 9.46	- 8.6	+ 5.46	+35.9							
17.5	+ 2.47	+20.3	+12.86	- 0.1	+ 8.40	+31.2							
18.5	- 2.82	+13.4	+15.42	+ 8.5	+11.31	+26.3							
19.5	- 7.66	+ 4.4	+16.94	+16.6	+14.16	+21.3							
20.5	-11.34	- 5.4	+17.34	+23.6	+16.93	+16.2							
21.5	-13.32	-14.5	+16.53	+29.0	+19.61	+11.0							
22.5	-13.35	-21.5	+14.50	+32.5	+22.18	+ 5.8							
23.5	-11.47	-25.6	+11.35	+33.5	+24.63	+ 0.5							
24.5	- 7.96	-26.0	+ 7.25	+31.7	+26.95	- 4.9							
25.5	- 3.31	-22.9	+ 2.48	+27.0	+29.11	-10.3							
26.5	+ 1.82	-16.4	- 2.55	+19.7	+31.11	-15.5							
27.5	+ 6.70	- 7.4	- 7.31	+10.3	+32.92	-20.5							
28.5	+10.56	+ 2.7	-11.25	- 0.4	+34.53	-25.3							
29.5	+12.77	+12.4	-13.89	-11.1	+35.94	-30.0							
30.5	+12.92	+20.3	-14.94	-20.6	+37.14	-34.5							
31.5	+10.92	+24.9	-14.32	-27.9	+38.12	-38.7							
Febr. 1.5	+ 7.08	+25.4	-12.14	-32.3	+38.85	-42.7							
2.5	+ 2.04	+21.7	- 8.82	-33.7	+39.33	-46.4							
3.5	- 3.34	+14.4	- 4.67	-32.0	+39.56	-49.8							
4.5	- 8.21	+ 4.7	- 0.11	-27.7	+39.55	-52.8							
5.5	-11.80	- 5.7	+ 4.46	-21.3	+39.30	-55.4							
6.5	-13.63	-15.4	+ 8.73	-13.2	+38.80	-57.7							
7.5	-13.47	-23.0	+12.39	- 4.1	+38.05	-59.6							
8.5	-11.38	-27.4	+15.23	+ 5.3	+37.06	-61.2							
9.5	- 7.67	-28.0	+17.05	+14.4	+35.82	-62.3							



Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS				
	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$					
1920													
Febr. 9.5	- 7.67	+ 4.81	-28.0	+ 3.4	+17.05	+0.67	+14.4	+ 8.2	+35.82	-1.48	-62.3	-0.5	
10.5	- 2.86	+5.22	-24.6	+ 7.0	+17.72	-0.55	+22.6	+ 6.8	+34.34	-1.72	-62.8	0.0	
11.5	+ 2.36	+4.87	-17.6	+ 9.5	+17.17	-1.80	+29.4	+ 4.8	+32.62	-1.93	-62.8	+0.3	
12.5	+ 7.23	+3.79	- 8.1	+10.9	+15.37	-2.99	+34.2	+ 2.2	+30.69	-2.14	-62.5	+0.7	
13.5	+11.02	+2.04	+ 2.8	+10.5	+12.38	-4.00	+36.4	- 0.8	+28.55	-2.34	-61.8	+1.1	
14.5	+13.06	-0.08	+13.3	+ 8.5	+ 8.38	-4.76	+35.6	- 3.9	+26.21	-2.52	-60.7	+1.6	
15.5	+12.98	-2.24	+21.8	+ 4.9	+ 3.62	-5.11	+31.7	- 7.0	+23.69	-2.68	-59.1	+1.9	
16.5	+10.74	-4.05	+26.7	+ 0.6	- 1.49	-4.95	+24.7	- 9.6	+21.01	-2.83	-57.2	+2.4	
17.5	+ 6.69	-5.17	+27.3	- 4.0	- 6.44	-4.23	+15.1	-11.3	+18.18	-2.95	-54.8	+2.7	
18.5	+ 1.52	-5.44	+23.3	- 7.8	-10.67	-3.00	+ 3.8	-11.9	+15.23	-3.06	-52.1	+3.1	
19.5	- 3.92	-4.81	+15.5	-10.4	-13.67	-1.41	- 8.1	-11.0	+12.17	-3.15	-49.0	+3.4	
20.5	- 8.73	-3.47	+ 5.1	-11.2	-15.08	+0.29	-19.1	- 8.9	+ 9.02	-3.20	-45.6	+3.7	
21.5	-12.20	-1.63	- 6.1	-10.4	-14.79	+1.87	-28.0	- 6.1	+ 5.82	-3.24	-41.9	+4.0	
22.5	-13.83	+0.38	-16.5	- 8.0	-12.92	+3.20	-34.1	- 2.7	+ 2.58	-3.27	-37.9	+4.3	
23.5	-13.45	+2.32	-24.5	- 4.8	- 9.72	+4.09	-36.8	+ 0.6	- 0.69	-3.27	-33.6	+4.5	
24.5	-11.13	+3.89	-29.3	- 0.6	- 5.63	+4.57	-36.2	+ 3.7	- 3.96	-3.24	-29.1	+4.6	
25.5	- 7.24	+4.92	-29.9	+ 3.6	- 1.06	+4.66	-32.5	+ 6.2	- 7.20	-3.20	-24.5	+4.8	
26.5	- 2.32	+5.26	-26.3	+ 7.5	+ 3.60	+4.40	-26.3	+ 8.3	-10.40	-3.14	-19.7	+4.8	
27.5	+ 2.94	+4.81	-18.8	+10.2	+ 8.00	+3.84	-18.0	+ 9.5	-13.54	-3.05	-14.9	+4.9	
28.5	+ 7.75	+3.64	- 8.6	+11.6	+11.84	+3.03	- 8.5	+10.2	-16.59	-2.93	-10.0	+5.0	
29.5	+11.39	+1.83	+ 3.0	+11.3	+14.87	+2.04	+ 1.7	+10.2	-19.52	-2.78	- 5.0	+4.9	
März 1.5	+13.22	-0.32	+14.3	+ 9.0	+16.91	+0.89	+11.9	+ 9.4	-22.30	-2.62	- 0.1	+4.9	
2.5	+12.90	-2.47	+23.3	+ 5.3	+17.80	-0.34	+21.3	+ 8.1	-24.92	-2.46	+ 4.8	+4.8	
3.5	+10.43	-4.22	+28.6	+ 0.5	+17.46	-1.59	+29.4	+ 6.0	-27.38	-2.26	+ 9.6	+4.7	
4.5	+ 6.21	-5.27	+29.1	- 4.4	+15.87	-2.81	+35.4	+ 3.4	-29.64	-2.04	+14.3	+4.5	
5.5	+ 0.94	-5.43	+24.7	- 8.4	+13.06	-3.86	+38.8	+ 0.3	-31.68	-1.82	+18.8	+4.4	
6.5	- 4.49	-4.69	+16.3	-11.0	+ 9.20	-4.66	+39.1	- 3.1	-33.50	-1.58	+23.2	+4.1	
7.5	- 9.18	-3.28	+ 5.3	-11.9	+ 4.54	-5.10	+36.0	- 6.5	-35.08	-1.34	+27.3	+3.9	
8.5	-12.46	-1.42	- 6.6	-11.1	- 0.56	-5.02	+29.5	- 9.6	-36.42	-1.09	+31.2	+3.7	
9.5	-13.88	+0.62	-17.7	- 8.5	- 5.58	-4.40	+19.9	-11.8	-37.51	-0.83	+34.9	+3.3	
10.5	-13.26	+2.51	-26.2	- 4.9	- 9.98	-3.25	+ 8.1	-12.9	-38.34	-0.57	+38.2	+3.0	
11.5	-10.75	+4.02	-31.1	- 0.5	-13.23	-1.71	- 4.8	-12.2	-38.91	-0.31	+41.2	+2.7	
12.5	- 6.73	+4.99	-31.6	+ 3.9	-14.94	+0.01	-17.0	-10.5	-39.22	-0.04	+43.9	+2.3	
13.5	- 1.74	+5.22	-27.7	+ 8.0	-14.93	+1.63	-27.5	- 7.5	-39.26	+0.23	+46.2	+2.0	
14.5	+ 3.48	+4.71	-19.7	+10.9	-13.30	+2.98	-35.0	- 4.0	-39.03	+0.48	+48.2	+1.6	
15.5	+ 8.19	+3.44	- 8.8	+12.2	-10.32	+3.96	-39.0	- 0.5	-38.55	+0.73	+49.8	+1.3	
16.5	+11.63	+1.60	+ 3.4	+11.8	- 6.36	+4.50	-39.5	+ 3.0	-37.82	+0.99	+51.1	+0.9	
17.5	+13.23	-0.56	+15.2	+ 9.3	- 1.86	+4.64	-36.5	+ 5.9	-36.83	+1.23	+52.0	+0.6	
18.5	+12.67	-2.66	+24.5	+ 5.4	+ 2.78	+4.45	-30.6	+ 8.2	-35.60	+1.45	+52.6	+0.2	
19.5	+10.01		+29.9		+ 7.23		-22.4		-34.15		+52.8		

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS				
	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$	$\alpha_{tr} - \alpha_{pl}$	$\delta_{tr} - \delta_{pl}$					
1920													
März 19.5	+10.01	-4.35	+29.9	+0.5	+7.23	+3.92	-22.4	+9.9	-34.15	+1.67	+52.8	-0.1	
20.5	+5.66	-5.28	+30.4	-4.7	+11.15	+3.16	-12.5	+11.0	-32.48	+1.88	+52.7	-0.5	
21.5	+0.38	-5.34	+25.7	-8.9	+14.31	+2.18	-1.5	+10.9	-30.60	+2.06	+52.2	-0.9	
22.5	-4.96	-4.55	+16.8	-11.6	+16.49	+1.07	+9.4	+10.0	-28.54	+2.23	+51.3	-1.2	
23.5	-9.51	-3.07	+5.2	-12.5	+17.56	-0.14	+19.4	+9.0	-26.31	+2.39	+50.1	-1.4	
24.5	-12.58	-1.19	-7.3	-11.4	+17.42	-1.39	+28.4	+7.1	-23.92	+2.54	+48.7	-1.8	
25.5	-13.77	+0.82	-18.7	-8.7	+16.03	-2.59	+35.5	+4.5	-21.38	+2.67	+46.9	-2.0	
26.5	-12.95	+2.66	-27.4	-4.9	+13.44	-3.66	+40.0	+1.3	-18.71	+2.77	+44.9	-2.3	
27.5	-10.29	+4.12	-32.3	-0.4	+9.78	-4.50	+41.3	-2.3	-15.94	+2.86	+42.6	-2.6	
28.5	-6.17	+4.98	-32.7	+4.3	+5.28	-4.98	+39.0	-6.0	-13.08	+2.93	+40.0	-2.8	
29.5	-1.19	+5.14	-28.4	+8.3	+0.30	-5.00	+33.0	-9.3	-10.15	+3.00	+37.2	-2.9	
30.5	+3.95	+4.54	-20.1	+11.4	-4.70	-4.44	+23.7	-11.9	-7.15	+3.03	+34.3	-3.1	
31.5	+8.49	+3.23	-8.7	+12.7	-9.14	-3.43	+11.8	-13.2	-4.12	+3.05	+31.2	-3.3	
April 1.5	+11.72	+1.37	+4.0	+12.1	-12.57	-1.95	-1.4	-13.1	-1.07	+3.05	+27.9	-3.4	
2.5	+13.09	-0.76	+16.1	+9.5	-14.52	-0.27	-14.5	-11.4	+1.98	+3.03	+24.5	-3.6	
3.5	+12.33	-2.82	+25.6	+5.3	-14.79	+1.35	-25.9	-8.6	+5.01	+3.00	+20.9	-3.7	
4.5	+9.51	-4.39	+30.9	+0.2	-13.44	+2.74	-34.5	-5.1	+8.01	+2.94	+17.2	-3.7	
5.5	+5.12	-5.25	+31.1	-5.0	-10.70	+3.74	-39.6	-1.5	+10.95	+2.86	+13.5	-3.7	
6.5	-0.13	-5.21	+26.1	-9.3	-6.96	+4.36	-41.1	+2.2	+13.81	+2.77	+9.8	-3.8	
7.5	-5.34	-4.35	+16.8	-12.0	-2.60	+4.55	-38.9	+5.4	+16.58	+2.66	+6.0	-3.8	
8.5	-9.69	-2.86	+4.8	-12.7	+1.95	+4.40	-33.5	+7.9	+19.24	+2.54	+2.2	-3.7	
9.5	-12.55	-0.98	-7.9	-11.5	+6.35	+3.94	-25.6	+9.8	+21.78	+2.42	-1.5	-3.6	
10.5	-13.53	+0.99	-19.4	-8.8	+10.29	+3.21	-15.8	+10.8	+24.20	+2.26	-5.1	-3.6	
11.5	-12.54	+2.76	-28.2	-4.7	+13.50	+2.30	-5.0	+11.3	+26.46	+2.10	-8.7	-3.5	
12.5	-9.78	+4.14	-32.9	-0.1	+15.80	+1.23	+6.3	+10.7	+28.56	+1.93	-12.2	-3.4	
13.5	-5.64	+4.93	-33.0	+4.5	+17.03	+0.06	+17.0	+9.7	+30.49	+1.74	-15.6	-3.3	
14.5	-0.71	+5.01	-28.5	+8.7	+17.09	-1.16	+26.7	+7.7	+32.23	+1.54	-18.9	-3.2	
15.5	+4.30	+4.35	-19.8	+11.6	+15.93	-2.34	+34.4	+5.2	+33.77	+1.34	-22.1	-3.0	
16.5	+8.65	+3.02	-8.2	+12.8	+13.59	-3.39	+39.6	+2.0	+35.11	+1.12	-25.1	-2.8	
17.5	+11.67	+1.17	+4.6	+12.1	+10.20	-4.28	+41.6	-1.5	+36.23	+0.91	-27.9	-2.7	
18.5	+12.84	-0.92	+16.7	+9.4	+5.92	-4.80	+40.1	-5.3	+37.14	+0.68	-30.6	-2.4	
19.5	+11.92	-2.91	+26.1	+5.1	+1.12	-4.88	+34.8	-8.6	+37.82	+0.45	-33.0	-2.2	
20.5	+9.01	-4.40	+31.2	-0.2	-3.76	-4.47	+26.2	-11.6	+38.27	+0.23	-35.2	-2.0	
21.5	+4.61	-5.15	+31.0	-5.3	-8.23	-3.51	+14.6	-13.1	+38.50	-0.01	-37.2	-1.7	
22.5	-0.54	-5.05	+25.7	-9.5	-11.74	-2.15	+1.5	-13.3	+38.49	-0.25	-38.9	-1.5	
23.5	-5.59	-4.18	+16.2	-12.1	-13.89	-0.54	-11.8	-11.9	+38.24	-0.49	-40.4	-1.2	
24.5	-9.77	-2.63	+4.1	-12.6	-14.43	+1.05	-23.7	-9.2	+37.75	-0.73	-41.6	-0.9	
25.5	-12.40	-0.80	-8.5	-11.3	-13.38	+2.43	-32.9	-5.9	+37.02	-0.96	-42.5	-0.7	
26.5	-13.20	+1.11	-19.8	-8.5	-10.95	+3.48	-38.8	-2.1	+36.06	-1.18	-43.2	-0.5	
27.5	-12.09		-28.3		-7.47		-40.9		+34.88		-43.7		

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS				
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		
1920													
April 27.5	-12.09	+2.82	-28.3	- 4.5	- 7.47	+4.14	-40.9	+ 1.5	+34.88	-1.39	-43.7	-0.2	
28.5	- 9.27	+4.11	-32.8	+ 0.3	- 3.33	+4.39	-39.4	+ 4.7	+33.49	-1.61	-43.9	+0.1	
29.5	- 5.16	+4.82	-32.5	+ 4.8	+ 1.06	+4.30	-34.7	+ 7.4	+31.88	-1.81	-43.8	+0.4	
30.5	- 0.34	+4.86	-27.7	+ 8.7	+ 5.36	+3.90	-27.3	+ 9.4	+30.07	-1.99	-43.4	+0.6	
Mai 1.5	+ 4.52	+4.17	-19.0	+11.6	+ 9.26	+3.25	-17.9	+10.5	+28.08	-2.16	-42.8	+0.9	
2.5	+ 8.69	+2.83	- 7.4	+12.6	+12.51	+2.40	- 7.4	+11.1	+25.92	-2.31	-41.9	+1.1	
3.5	+11.52	+0.99	+ 5.2	+11.8	+14.91	+1.38	+ 3.7	+10.7	+23.61	-2.47	-40.8	+1.5	
4.5	+12.51	-1.03	+17.0	+ 9.0	+16.29	+0.28	+14.4	+ 9.7	+21.14	-2.61	-39.3	+1.7	
5.5	+11.48	-2.94	+26.0	+ 4.6	+16.57	-0.90	+24.1	+ 8.0	+18.53	-2.71	-37.6	+1.9	
6.5	+ 8.54	-4.35	+30.6	- 0.4	+15.67	-2.05	+32.1	+ 5.6	+15.82	-2.81	-35.7	+2.2	
7.5	+ 4.19	-5.03	+30.2	- 5.5	+13.62	-3.10	+37.7	+ 2.7	+13.01	-2.89	-33.5	+2.4	
8.5	- 0.84	-4.88	+24.7	- 9.5	+10.52	-3.99	+40.4	- 0.8	+10.12	-2.94	-31.1	+2.5	
9.5	- 5.72	-3.96	+15.2	-11.9	+ 6.53	-1.55	+39.6	- 4.5	+ 7.18	-2.98	-28.6	+2.7	
10.5	- 9.68	-2.48	+ 3.3	-12.2	+ 1.98	-4.73	+35.1	- 7.9	+ 4.20	-3.00	-25.9	+2.9	
11.5	-12.16	-0.67	- 8.9	-10.9	- 2.75	-4.43	+27.2	-10.8	+ 1.20	-2.99	-23.0	+3.0	
12.5	-12.83	+1.18	-19.8	- 8.1	- 7.18	-3.59	+16.4	-12.5	- 1.79	-2.97	-20.0	+3.2	
13.5	-11.65	+2.82	-27.9	- 4.0	-10.77	-2.33	+ 3.9	-12.9	- 4.76	-2.93	-16.8	+3.3	
14.5	- 8.83	+4.05	-31.9	+ 0.5	-13.10	-0.83	- 9.0	-11.8	- 7.69	-2.86	-13.5	+3.3	
15.5	- 4.78	+4.70	-31.4	+ 4.9	-13.93	+0.71	-20.8	- 9.4	-10.55	-2.77	-10.2	+3.4	
16.5	- 0.08	+4.70	-26.5	+ 8.8	-13.22	+2.10	-30.2	- 6.3	-13.32	-2.68	- 6.8	+3.5	
17.5	+ 4.62	+4.00	-17.7	+11.3	-11.12	+3.16	-36.5	- 2.6	-16.00	-2.56	- 3.3	+3.5	
18.5	+ 8.62	+2.66	- 6.4	+12.2	- 7.96	+3.88	-39.1	+ 0.9	-18.56	-2.42	+ 0.2	+3.4	
19.5	+11.28	+0.87	+ 5.8	+11.2	- 4.08	+4.19	-38.2	+ 3.9	-20.98	-2.26	+ 3.6	+3.4	
20.5	+12.15	-1.10	+17.0	+ 8.4	+ 0.11	+4.17	-34.3	+ 6.7	-23.24	-2.10	+ 7.0	+3.3	
21.5	+11.05	-2.92	+25.4	+ 4.2	+ 4.28	+3.85	-27.6	+ 8.6	-25.34	-1.92	+10.3	+3.3	
22.5	+ 8.13	-4.27	+29.6	- 0.9	+ 8.13	+3.27	-19.0	+ 9.9	-27.26	-1.72	+13.6	+3.2	
23.5	+ 3.86	-4.89	+28.7	- 5.6	+11.40	+2.49	- 9.1	+10.5	-28.98	-1.52	+16.8	+3.2	
24.5	- 1.03	-4.71	+23.1	- 9.2	+13.89	+1.55	+ 1.4	+10.3	-30.50	-1.32	+20.0	+3.0	
25.5	- 5.74	-3.80	+13.9	-11.4	+15.44	+0.51	+11.7	+ 9.4	-31.82	-1.10	+23.0	+2.8	
26.5	- 9.54	-2.33	+ 2.5	-11.8	+15.95	-0.61	+21.1	+ 8.0	-32.92	-0.88	+25.8	+2.7	
27.5	-11.87	-0.57	- 9.3	-10.3	+15.34	-1.74	+29.1	+ 5.7	-33.80	-0.65	+28.5	+2.5	
28.5	-12.44	+1.20	-19.6	- 7.3	+13.60	-2.77	+34.8	+ 2.9	-34.45	-0.43	+31.0	+2.3	
29.5	-11.24	+2.79	-26.9	- 3.5	+10.83	-3.67	+37.7	- 0.2	-34.88	-0.20	+33.3	+2.2	
30.5	- 8.45	+3.96	-30.4	+ 0.8	+ 7.16	-4.30	+37.5	- 3.7	-35.08	+0.03	+35.5	+1.9	
31.5	- 4.49	+4.57	-29.6	+ 5.0	+ 2.86	-4.56	+33.8	- 6.9	-35.05	+0.25	+37.4	+1.7	
Juni 1.5	+ 0.08	+4.55	-24.6	+ 8.5	- 1.70	-4.35	+26.9	- 9.7	-34.80	+0.46	+39.1	+1.4	
2.5	+ 4.63	+3.84	-16.1	+10.8	- 6.05	-3.67	+17.2	-11.5	-34.34	+0.68	+40.5	+1.2	
3.5	+ 8.47	+2.54	- 5.3	+11.5	- 9.72	-2.54	+ 5.7	-12.2	-33.66	+0.88	+41.7	+1.0	
4.5	+11.01	+0.79	+ 6.2	+10.5	-12.26	-1.12	- 6.5	-11.2	-32.78	+1.08	+42.7	+0.8	
5.5	+11.80		+16.7		-13.38		-17.7		-31.70		+43.5		

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS				
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		
1920													
Juni 5.5	+11.80	-1.13	+16.7	+ 7.7	-13.38	+0.37	-17.7	- 9.2	-31.70	+1.27	+43.5	+0.4	
6.5	+10.67	-2.88	+24.4	+ 3.5	-13.01	+1.74	-26.9	- 6.3	-30.43	+1.45	+43.9	+0.3	
7.5	+ 7.79	-4.17	+27.9	- 1.1	-11.27	+2.82	-33.2	- 3.0	-28.98	+1.62	+44.2	0.0	
8.5	+ 3.62	-4.75	+26.8	- 5.6	- 8.45	+3.58	-36.2	+ 0.3	-27.36	+1.78	+44.2	-0.3	
9.5	- 1.13	-4.55	+21.2	- 8.9	- 4.87	+3.97	-35.9	+ 3.3	-25.58	+1.92	+43.9	-0.5	
10.5	- 5.68	-3.66	+12.3	-10.8	- 0.90	+4.03	-32.6	+ 5.9	-23.66	+2.06	+43.4	-0.7	
11.5	- 9.34	-2.23	+ 1.5	-11.0	+ 3.13	+3.79	-26.7	+ 7.8	-21.60	+2.17	+42.7	-1.0	
12.5	-11.57	-0.52	- 9.5	- 9.5	+ 6.92	+3.30	-18.9	+ 9.0	-19.43	+2.28	+41.7	-1.2	
13.5	-12.09	+1.21	-19.0	- 6.6	+10.22	+2.59	- 9.9	+ 9.6	-17.15	+2.37	+40.5	-1.5	
14.5	-10.88	+2.73	-25.6	- 3.0	+12.81	+1.73	- 0.3	+ 9.6	-14.78	+2.44	+39.0	-1.7	
15.5	- 8.15	+3.85	-28.6	+ 1.1	+14.54	+0.76	+ 9.3	+ 8.8	-12.34	+2.50	+37.3	-1.8	
16.5	- 4.30	+4.45	-27.5	+ 5.0	+15.30	-0.32	+18.1	+ 7.5	- 9.84	+2.55	+35.5	-2.0	
17.5	+ 0.15	+4.41	-22.5	+ 8.2	+14.98	-1.41	+25.6	+ 5.6	- 7.29	+2.59	+33.5	-2.3	
18.5	+ 4.56	+3.72	-14.3	+10.2	+13.57	-2.43	+31.2	+ 3.1	- 4.70	+2.60	+31.2	-2.5	
19.5	+ 8.28	+2.44	- 4.1	+10.8	+11.14	-3.34	+34.3	+ 0.2	- 2.10	+2.60	+28.7	-2.6	
20.5	+10.72	+0.75	+ 6.7	+ 9.6	+ 7.80	-4.02	+34.5	- 2.9	+ 0.50	+2.59	+26.1	-2.9	
21.5	+11.47	-1.12	+16.3	+ 6.8	+ 3.78	-4.39	+31.6	- 6.0	+ 3.09	+2.56	+23.2	-3.0	
22.5	+10.35	-2.82	+23.1	+ 2.9	- 0.61	-4.29	+25.6	- 8.6	+ 5.65	+2.52	+20.2	-3.2	
23.5	+ 7.53	-4.07	+26.0	- 1.4	- 4.90	-3.74	+17.0	-10.4	+ 8.17	+2.46	+17.0	-3.2	
24.5	+ 3.46	-4.62	+24.6	- 5.5	- 8.64	-2.74	+ 6.6	-11.0	+10.63	+2.40	+13.8	-3.3	
25.5	- 1.16	-4.41	+19.1	- 8.5	-11.38	-1.41	- 4.4	-10.5	+13.03	+2.32	+10.5	-3.2	
26.5	- 5.57	-3.55	+10.6	-10.1	-12.79	+0.01	-14.9	- 8.6	+15.35	+2.22	+ 7.3	-3.2	
27.5	- 9.12	-2.15	+ 0.5	-10.1	-12.78	+1.35	-23.5	- 6.1	+17.57	+2.11	+ 4.1	-3.2	
28.5	-11.27		- 9.6		-11.43		-29.6		+19.68		+ 0.9		
Nov. 11.5	+10.06	+1.02	+11.4	+ 1.1	+13.28	+1.01	+15.1	+ 1.6	-32.22	+0.47	+77.3	+4.2	
12.5	+11.08	-0.79	+12.5	- 1.0	+14.29	-0.02	+16.7	+ 0.4	-31.75	+0.68	+81.5	+3.6	
13.5	+10.29	-2.49	+11.5	- 3.0	+14.27	-1.13	+17.1	- 0.9	-31.07	+0.88	+85.1	+3.1	
14.5	+ 7.80	-3.81	+ 8.5	- 4.5	+13.14	-2.21	+16.2	- 2.5	-30.19	+1.07	+88.2	+2.6	
15.5	+ 3.99	-4.46	+ 4.0	- 5.2	+10.93	-3.22	+13.7	- 3.7	-29.12	+1.27	+90.8	+2.1	
16.5	- 0.47	-4.41	- 1.2	- 5.0	+ 7.71	-3.99	+10.0	- 4.7	-27.85	+1.44	+92.9	+1.5	
17.5	- 4.88	-3.67	- 6.2	- 4.0	+ 3.72	-4.39	+ 5.3	- 5.3	-26.41	+1.58	+94.4	+1.0	
18.5	- 8.55	-2.41	-10.2	- 2.4	- 0.67	-4.33	0.0	- 5.3	-24.83	+1.71	+95.4	+0.5	
19.5	-10.96	-0.84	-12.6	- 0.5	- 5.00	-3.76	- 5.3	- 4.6	-23.12	+1.84	+95.9	-0.1	
20.5	-11.80	+0.85	-13.1	+ 1.3	- 8.76	-2.76	- 9.9	- 3.5	-21.28	+1.98	+95.8	-0.6	
21.5	-10.95	+2.37	-11.8	+ 3.1	-11.52	-1.47	-13.4	- 1.9	-19.30	+2.10	+95.2	-1.1	
22.5	- 8.58	+3.59	- 8.7	+ 4.3	-12.99	-0.12	-15.3	- 0.2	-17.20	+2.19	+94.1	-1.7	
23.5	- 4.99	+4.32	- 4.4	+ 5.1	-13.11	+1.16	-15.5	+ 1.3	-15.01	+2.29	+92.4	-2.2	
24.5	- 0.67		+ 0.7		-11.95		-14.2		-12.72		+90.2		

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS				
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		
1920													
Nov. 24.5	- 0.67	+4.42	+ 0.7	+4.9	-11.95	+2.22	-14.2	+2.7	-12.72	+2.37	+ 90.2	-2.8	
25.5	+ 3.75	+3.87	+ 5.6	+4.0	- 9.73	+3.04	-11.5	+3.6	-10.35	+2.43	+ 87.4	-3.4	
26.5	+ 7.62	+2.69	+ 9.6	+2.5	- 6.69	+3.56	- 7.9	+4.3	- 7.92	+2.49	+ 84.0	-3.8	
27.5	+10.31	+1.04	+12.1	+0.5	- 3.13	+3.79	- 3.6	+4.6	- 5.43	+2.53	+ 80.2	-4.2	
28.5	+11.35	-0.82	+12.6	-1.6	+ 0.66	+3.76	+ 1.0	+4.4	- 2.90	+2.55	+ 76.0	-4.7	
29.5	+10.53	-2.57	+11.0	-3.5	+ 4.42	+3.48	+ 5.4	+4.2	- 0.35	+2.56	+ 71.3	-5.2	
30.5	+ 7.96	-3.91	+ 7.5	-4.8	+ 7.90	+2.97	+ 9.6	+3.5	+ 2.21	+2.56	+ 66.1	-5.6	
Dez. 1.5	+ 4.05	-4.58	+ 2.7	-5.3	+10.87	+2.26	+13.1	+2.5	+ 4.77	+2.54	+ 60.5	-5.9	
2.5	- 0.53	-4.52	- 2.6	-4.9	+13.13	+1.38	+15.6	+1.5	+ 7.31	+2.51	+ 54.6	-6.2	
3.5	- 5.05	-3.76	- 7.5	-3.7	+14.51	+0.34	+17.1	+0.2	+ 9.82	+2.47	+ 48.4	-6.6	
4.5	- 8.81	-2.46	-11.2	-2.0	+14.85	-0.80	+17.3	-1.1	+12.29	+2.40	+ 41.8	-7.0	
5.5	-11.27	-0.84	-13.2	0.0	+14.05	-1.95	+16.2	-2.6	+14.69	+2.33	+ 34.8	-7.3	
6.5	-12.11	+0.88	-13.2	+1.8	+12.10	-3.05	+13.6	-3.8	+17.02	+2.24	+ 27.5	-7.4	
7.5	-11.23	+2.46	-11.4	+3.5	+ 9.05	-3.94	+ 9.8	-4.7	+19.26	+2.14	+ 20.1	-7.4	
8.5	- 8.77	+3.71	- 7.9	+4.7	+ 5.11	-4.49	+ 5.1	-5.4	+21.40	+2.03	+ 12.7	-7.6	
9.5	- 5.06	+4.44	- 3.2	+5.1	+ 0.62	-4.57	- 0.3	-5.3	+23.43	+1.90	+ 5.1	-7.8	
10.5	- 0.62	+4.54	+ 1.9	+4.9	- 3.95	-4.13	- 5.6	-4.7	+25.33	+1.77	- 2.7	-7.7	
11.5	+ 3.92	+3.96	+ 6.8	+3.8	- 8.08	-3.19	-10.3	-3.4	+27.10	+1.61	- 10.4	-7.7	
12.5	+ 7.88	+2.75	+10.6	+2.1	-11.27	-1.93	-13.7	-1.8	+28.71	+1.45	- 18.1	-7.7	
13.5	+10.63	+1.04	+12.7	+0.1	-13.20	-0.54	-15.5	-0.2	+30.16	+1.28	- 25.8	-7.6	
14.5	+11.67	-0.91	+12.8	-2.1	-13.74	+0.83	-15.7	+1.3	+31.44	+1.10	- 33.4	-7.4	
15.5	+10.76	-2.70	+10.7	-3.9	-12.91	+2.01	-14.4	+2.8	+32.54	+0.91	- 40.8	-7.3	
16.5	+ 8.06	-4.01	+ 6.8	-5.1	-10.90	+2.92	-11.6	+3.7	+33.45	+0.71	- 48.1	-6.9	
17.5	+ 4.05	-4.72	+ 1.7	-5.3	- 7.98	+3.54	- 7.9	+4.4	+34.16	+0.51	- 55.0	-6.7	
18.5	- 0.67	-4.64	- 3.6	-4.8	- 4.44	+3.89	- 3.5	+4.6	+34.67	+0.31	- 61.7	-6.3	
19.5	- 5.31	-3.83	- 8.4	-3.5	- 0.55	+3.93	+ 1.1	+4.6	+34.98	+0.10	- 68.0	-5.9	
20.5	- 9.14	-2.50	-11.9	-1.8	+ 3.38	+3.72	+ 5.7	+4.1	+35.08	-0.12	- 73.9	-5.5	
21.5	-11.64	-0.81	-13.7	+0.3	+ 7.10	+3.28	+ 9.8	+3.6	+34.96	-0.35	- 79.4	-5.1	
22.5	-12.45	+0.96	-13.4	+2.2	+10.38	+2.60	+13.4	+2.7	+34.61	-0.56	- 84.5	-4.5	
23.5	-11.49	+2.57	-11.2	+3.8	+12.98	+1.72	+16.1	+1.5	+34.05	-0.77	- 89.0	-4.0	
24.5	- 8.92	+3.85	- 7.4	+4.8	+14.70	+0.70	+17.6	+0.3	+33.28	-0.98	- 93.0	-3.5	
25.5	- 5.07	+4.59	- 2.6	+5.2	+15.40	-0.47	+17.9	-1.0	+32.30	-1.20	- 96.5	-2.8	
26.5	- 0.48	+4.67	+ 2.6	+4.9	+14.93	-1.69	+16.9	-2.4	+31.10	-1.41	- 99.3	-2.2	
27.5	+ 4.19	+4.04	+ 7.5	+3.7	+13.24	-2.85	+14.5	-3.7	+29.69	-1.62	-101.5	-1.6	
28.5	+ 8.23	+2.78	+11.2	+2.0	+10.39	-3.87	+10.8	-4.8	+28.07	-1.80	-103.1	-0.6	
29.5	+11.01	+0.99	+13.2	-0.2	+ 6.52	-4.56	+ 6.0	-5.4	+26.27	-1.98	-103.7	+0.5	
30.5	+12.00	-0.99	+13.0	-2.3	+ 1.96	-4.79	+ 0.6	-5.5	+24.29	-2.16	-103.2		
31.5	+11.01		+10.7		- 2.83		- 4.9		+22.13				

## Östliche Elongationen

## MIMAS

Jan.	1	<sup>b</sup> 1.2	Febr. 13	<sup>b</sup> 9.6	März 27	<sup>b</sup> 17.8	Mai 10	<sup>b</sup> 2.2	Juni 22	<sup>b</sup> 10.8
	1	23.8	14	8.1	28	16.4	11	0.8	23	9.4
	2	22.4	15	6.7	29	15.1	11	23.5	24	8.0
	3	21.0	16	5.3	30	13.7	12	22.1	25	6.7
	4	19.7	17	3.9	31	12.3	13	20.7	26	5.3
	5	18.3	18	2.6	April 1	10.9	14	19.3	27	4.0
	6	16.9	19	1.2	2	9.5	15	17.9		
	7	15.5	19	23.8	3	8.1	16	16.6	Nov. 11	19.1
	8	14.2	20	22.4	4	6.7	17	15.2	12	17.7
	9	12.8	21	21.1	5	5.3	18	13.8	13	16.3
	10	11.4	22	19.7	6	4.0	19	12.4	14	14.9
	11	10.0	23	18.3	7	2.6	20	11.0	15	13.6
	12	8.6	24	16.9	8	1.2	21	9.6	16	12.2
	13	7.2	25	15.5	8	23.8	22	8.2	17	10.8
	14	5.8	26	14.2	9	22.5	23	6.8	18	9.4
	15	4.4	27	12.8	10	21.1	24	5.5	19	8.1
	16	3.0	28	11.4	11	19.7	25	4.1	20	6.7
	17	1.7	29	10.0	12	18.3	26	2.8	21	5.3
	18	0.3	März 1	8.5	13	16.9	27	1.4	22	3.9
	18	22.9	2	7.1	14	15.6	28	0.1	23	2.5
	19	21.5	3	5.7	15	14.2	28	22.7	24	1.2
	20	20.2	4	4.3	16	12.8	29	21.3	24	23.8
	21	18.8	5	3.0	17	11.4	30	19.9	25	22.4
	22	17.4	6	1.6	18	10.0	31	18.5	26	21.0
	23	16.0	7	0.2	19	8.6	Juni 1	17.2	27	19.6
	24	14.6	7	22.8	20	7.2	2	15.8	28	18.2
	25	13.3	8	21.5	21	5.8	3	14.4	29	16.8
	26	11.9	9	20.1	22	4.5	4	13.0	30	15.4
	27	10.5	10	18.7	23	3.1	5	11.6	Dez. 1	14.1
	28	9.1	11	17.3	24	1.7	6	10.2	2	12.7
	29	7.7	12	15.9	25	0.3	7	8.8	3	11.3
	30	6.3	13	14.6	25	23.0	8	7.4	4	9.9
	31	4.9	14	13.2	26	21.6	9	6.1	5	8.6
Febr.	1	3.5	15	11.8	27	20.2	10	4.7	6	7.2
	2	2.2	16	10.4	28	18.8	11	3.4	7	5.8
	3	0.8	17	9.0	29	17.4	12	2.0	8	4.4
	3	23.4	18	7.6	30	16.1	13	0.7	9	3.0
	4	22.0	19	6.2	Mai 1	14.7	13	23.3	10	1.7
	5	20.7	20	4.8	2	13.3	14	21.9	11	0.3
	6	19.3	21	3.5	3	11.9	15	20.5	11	22.9
	7	17.9	22	2.1	4	10.5	16	19.1	12	21.5
	8	16.5	23	0.7	5	9.1	17	17.8	13	20.1
	9	15.1	23	23.3	6	7.7	18	16.4	14	18.7
	10	13.8	24	22.0	7	6.3	19	15.0	15	17.3
	11	12.4	25	20.6	8	5.0	20	13.6	16	15.9
	12	11.0	26	19.2	9	3.6	21	12.2	17	14.6

## Östliche Elongationen

MIMAS		ENCELADUS		ENCELADUS		ENCELADUS		ENCELADUS						
Dez.	18	13.2 <sup>h</sup>	Febr.	11	0.6 <sup>h</sup>	April	14	1.1 <sup>h</sup>	Juni	16	2.0 <sup>h</sup>	Dez.	29	2.0 <sup>h</sup>
	19	11.8		12	9.5		15	10.0		17	10.9		30	10.9
	20	10.4		13	18.4		16	18.9		18	19.8		31	19.8
	21	9.1		15	3.3		18	3.7		20	4.7	TETHYS		
	22	7.7		16	12.2		19	12.6		21	13.6			
	23	6.3		17	21.1		20	21.5		22	22.5		3	5.0
	24	4.9		19	6.0		22	6.4		24	7.4		5	2.3
	25	3.5		20	14.8		23	15.2		25	16.2		6	23.6
	26	2.2		21	23.7		25	0.1		27	1.1		8	20.9
	27	0.8		23	8.6		26	9.0		28	10.0		10	18.2
	27	23.4		24	17.5		27	17.9					12	15.5
	28	22.0		26	2.3		29	2.8		Nov.	11	2.9	14	12.8
	29	20.6		27	11.1		30	11.7		12	11.8		16	10.1
	30	19.2		28	20.0	Mai	1	20.6		13	20.7		18	7.4
	31	17.9	März	1	4.9		3	5.5		15	5.6		20	4.7
ENCELADUS				2	13.8		4	14.4		16	14.5		22	2.0
Jan.	2	7.2		3	22.7		5	23.3		17	23.4		23	23.3
	3	16.1		5	7.6		7	8.2		19	8.3		25	20.6
	5	1.0		6	16.4		8	17.1		20	17.2		27	17.9
	6	9.9		8	1.3		10	1.9		22	2.1		29	15.1
	7	18.7		9	10.2		11	10.8		23	11.0		31	12.4
	9	3.6		10	19.1		12	19.7		24	19.9		Febr.	2
	10	12.5		12	3.9		14	4.6		26	4.8			9.7
	11	21.4		13	12.8		15	13.4		27	13.7		4	7.0
	13	6.3		14	21.7		16	22.3		28	22.6		6	4.3
	14	15.2		16	6.6		18	7.2		30	7.5		8	1.6
	16	0.1		17	15.5		19	16.1		Dez.	1	16.4	9	22.9
	17	9.0		19	0.4		21	1.0		3	1.2		11	20.2
	18	17.8		20	9.3		22	9.9		4	10.1		13	17.5
	20	2.7		21	18.2		23	18.8		5	19.0		15	14.8
	21	11.6		23	3.0		25	3.6		7	3.9		17	12.1
	22	20.5		24	11.9		26	12.5		8	12.7		19	9.4
	24	5.3		25	20.8		27	21.4		9	21.6		21	6.7
	25	14.1		27	5.7		29	6.3		11	6.5		23	4.0
	26	23.0		28	14.5		30	15.2		12	15.4		25	1.3
	28	7.9		29	23.4	Juni	1	0.1		14	0.3		26	22.6
	29	16.8		31	8.3		2	9.0		15	9.2		28	19.9
	31	1.7	April	1	17.2		3	17.9		16	18.1		März	1
Febr.	1	10.6		3	2.1		5	2.8		18	3.0			3
	2	19.5		4	11.0		6	11.7		19	11.8			5
	4	4.3		5	19.9		7	20.6		20	20.7			7
	5	13.2		7	4.8		9	5.5		22	5.6			9
	6	22.1		8	13.6		10	14.4		23	14.5			11
	8	6.9		9	22.5		11	23.3		24	23.3			13
	9	15.7		11	7.4		13	8.2		26	8.2			14
				12	16.3		14	17.1		27	17.1			16

## Östliche Elongationen

TETHYS		TETHYS		DIONE		DIONE		RHEA	
März 18	16.7 <sup>h</sup>	Juni 13	12.9 <sup>h</sup>	Jan. 20	11.9 <sup>h</sup>	Mai 25	8.6 <sup>h</sup>	Febr. 16	21.6 <sup>h</sup>
20	14.0	15	10.2	23	5.5	28	2.3	21	9.9
22	11.3	17	7.5	25	23.2	30	20.0	25	22.2
24	8.6	19	4.8	28	16.9	Juni 2	13.7	März 1	10.5
26	5.9	21	2.2	31	10.6	5	7.5	5	22.9
28	3.2	22	23.5	Febr. 3	4.3	8	1.2	10	11.2
30	0.5	24	20.8	5	21.9	10	18.9	14	23.5
31	21.8	26	18.2	8	15.6	13	12.6	19	11.9
April 2	19.1	28	15.5	11	9.3	16	6.3	24	0.3
4	16.4			14	2.9	19	0.0	28	12.7
6	13.7	Nov. 11	15.3	16	20.6	21	17.8	April 2	1.0
8	11.0	13	12.6	19	14.3	24	11.5	6	13.4
10	8.3	15	9.9	22	7.9	27	5.2	11	1.8
12	5.6	17	7.3	25	1.6			15	14.1
14	2.9	19	4.6	27	19.2	Nov. 11	4.1	20	2.5
16	0.2	21	1.9	März 1	12.8	13	21.8	24	14.9
17	21.5	22	23.2	4	6.5	16	15.5	29	3.3
19	18.8	24	20.5	7	0.2	19	9.2	Mai 3	15.7
21	16.1	26	17.9	9	17.8	22	2.9	8	4.1
23	13.4	28	15.2	12	11.5	24	20.6	12	16.5
25	10.7	30	12.5	15	5.2	27	14.4	17	5.0
27	8.0	Dez. 2	9.8	17	22.7	30	8.1	21	17.5
29	5.3	4	7.2	20	16.4	Dez. 3	1.8	26	5.9
Mai 1	2.6	6	4.5	23	10.1	5	19.5	30	18.4
2	23.9	8	1.8	26	3.7	8	13.2	Juni 4	6.9
4	21.2	9	23.1	28	21.4	11	6.9	8	19.4
6	18.5	11	20.4	31	15.0	14	0.5	13	7.9
8	15.8	13	17.7	April 3	8.6	16	18.2	17	20.4
10	13.1	15	15.0	6	2.3	19	11.9	22	8.9
12	10.4	17	12.3	8	20.0	22	5.6	26	21.4
14	7.7	19	9.7	11	13.6	24	23.3	Juli 1	9.9
16	5.0	21	7.0	14	7.3	27	17.0		
18	2.3	23	4.3	17	1.0	30	10.7	Nov. 9	14.1
19	23.7	25	1.6	19	18.7	33	4.4	14	2.6
21	21.0	26	22.9	22	12.4			18	15.1
23	18.3	28	20.3	25	6.1	RHEA		23	3.6
25	15.7	30	17.5	27	23.7	Jan. 2	18.2 <sup>h</sup>	27	16.1
27	13.0			30	17.4	7	6.5	Dez. 2	4.6
29	10.3	DIONE		Mai 3	11.1	11	18.9	6	17.1
31	7.6	Jan. 1	8.4 <sup>h</sup>	6	4.8	16	7.2	11	5.5
Juni 2	4.9	4	2.0	8	22.5	20	19.5	15	18.0
4	2.3	6	19.6	11	16.2	25	7.9	20	6.5
5	23.6	9	13.3	14	9.8	29	20.3	24	18.9
7	20.9	12	7.0	17	3.5	Febr. 3	8.7	29	7.4
9	18.2	15	0.6	19	21.2	7	21.0	33	19.9
11	15.6	17	18.2	22	14.9	12	9.3		



## Elongationen und Konjunktionen

TITAN			TITAN			HYPERION				
Jan.	2	2.7 <sup>h</sup> Unt. Konj.	Juni	13	8.4 <sup>h</sup> Westl. El.	April	19	19.6 <sup>h</sup> Unt. Konj.		
	6	2.7 Westl. El.		17	13.4 Ob. Konj.		24	7.5 Westl. El.		
	10	7.2 Ob. Konj.		21	13.0 Östl. El.		29	8.9 Ob. Konj.		
	14	6.1 Östl. El.		25	8.1 Unt. Konj.		Mai	5	13.2 Östl. El.	
	18	0.9 Unt. Konj.		Nov.	12			15.6 Östl. El.	11	0.2 Unt. Konj.
	22	0.8 Westl. El.	16		10.9 Unt. Konj.			15	12.1 Westl. El.	
	26	5.2 Ob. Konj.	20		12.2 Westl. El.		20	14.0 Ob. Konj.		
	30	4.1 Östl. El.	24		16.9 Ob. Konj.		26	18.7 Östl. El.		
	Febr.	2	22.7 Unt. Konj.		28		15.4 Östl. El.	Juni	1	5.3 Unt. Konj.
		6	22.6 Westl. El.	Dez.	2		10.6 Unt. Konj.		5	17.3 Westl. El.
11		2.9 Ob. Konj.	6		11.8 Westl. El.	10	19.9 Ob. Konj.			
15		1.8 Östl. El.	10		16.4 Ob. Konj.	17	0.8 Östl. El.			
18		20.4 Unt. Konj.	14		14.7 Östl. El.	22	10.9 Unt. Konj.			
22		20.0 Westl. El.	18		9.9 Unt. Konj.	26	22.9 Westl. El.			
27		0.4 Ob. Konj.	22	11.1 Westl. El.	Nov.	13	7.7 Östl. El.			
März		1	23.3 Östl. El.	26		15.6 Ob. Konj.	18		9.7 Unt. Konj.	
	5	18.0 Unt. Konj.	30	13.8 Östl. El.		22	21.2 Westl. El.			
	9	17.5 Westl. El.	HYPERION			28	9.2 Ob. Konj.			
	13	21.8 Ob. Konj.	Jan.	4		19.1 <sup>h</sup> Unt. Konj.	Dez.	4	15.5 Östl. El.	
	17	20.9 Östl. El.		9	7.1 Westl. El.	9		16.5 Unt. Konj.		
21	15.5 Unt. Konj.	14		8.6 Ob. Konj.	14	3.8 Westl. El.				
25	15.0 Westl. El.	20		14.0 Östl. El.	19	16.6 Ob. Konj.				
29	19.5 Ob. Konj.	26		1.6 Unt. Konj.	25	22.7 Östl. El.				
April	2	18.7 Östl. El.		30	13.3 Westl. El.	30		22.9 Unt. Konj.		
	6	13.4 Unt. Konj.		Febr.	4	14.7 Ob. Konj.		JAPETUS		
	10	12.8 Westl. El.			10	19.6 Östl. El.		Jan.	14	19.3 <sup>h</sup> Ob. Konj.
	14	17.4 Ob. Konj.			16	6.9 Unt. Konj.			Febr.	4
	18	16.8 Östl. El.			20	18.6 Westl. El.		23		9.8 Unt. Konj.
	22	11.5 Unt. Konj.	25		19.7 Ob. Konj.	März	13	0.5 Westl. El.		
	26	11.2 Westl. El.	März	3	0.0 Östl. El.		April	1	22.7 Ob. Konj.	
	30	15.7 Ob. Konj.		8	11.4 Unt. Konj.	22		13.2 Östl. El.		
Mai	4	15.3 Östl. El.		12	23.0 Westl. El.	Mai	11	23.7 Unt. Konj.		
	8	10.1 Unt. Konj.		18	0.0 Ob. Konj.		30	23.3 Westl. El.		
	12	9.8 Westl. El.		24	4.2 Östl. El.		Juni	20	10.0 Ob. Konj.	
	16	14.5 Ob. Konj.	29	15.5 Unt. Konj.	Nov.	29		22.7 Ob. Konj.		
	20	14.2 Östl. El.	April	3		3.2 Westl. El.		20	18.7 Östl. El.	
	24	9.1 Unt. Konj.		8	4.3 Ob. Konj.					
28	8.8 Westl. El.	14		8.4 Östl. El.						
Juni	1	13.7 Ob. Konj.								
	5	13.4 Östl. El.								
	9	8.4 Unt. Konj.								



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

$\alpha \backslash \delta$	$p_\alpha$												$p_\delta$	
	+60°	+50°	+40°	+30°	+20°	+10°	0°	-10°	-20°	-30°	-40°	-50°		-60°
0 <sup>h</sup>	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 <sup>80</sup>
20	.262	.255	.247	.240	.232	.225	.217	.210	.202	.195	20	+0.205 <sup>77</sup>
30	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	30	+0.275 <sup>70</sup>
40	50.262	.256	.251	.245	.239	50.233	.227	.221	.216	.210	40	+0.338 <sup>63</sup>
50	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	50	+0.390 <sup>52</sup>
60	.262	.259	.255	.252	.249	.245	.242	.238	.235	.231	60	+0.430 <sup>40</sup>
70	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	70	+0.456 <sup>26</sup>
80	50.262	.261	.261	.260	.259	50.259	.258	.258	.257	.257	80	+0.470 <sup>14</sup>
90	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	90	+0.469 <sup>1</sup>
100	.262	.264	.267	.269	.271	.273	.275	.277	.280	.282	100	+0.453 <sup>16</sup>
110	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	110	+0.424 <sup>29</sup>
120	50.262	.267	.271	.276	.281	50.286	.291	.296	.301	.306	120	+0.382 <sup>42</sup>
130	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	130	+0.328 <sup>54</sup>
140	.262	.269	.275	.282	.289	.296	.303	.310	.317	.324	140	+0.265 <sup>63</sup>
150	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	150	+0.193 <sup>72</sup>
160	50.262	.270	.278	.286	.294	50.302	.310	.318	.326	.334	160	+0.116 <sup>77</sup>
170	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	170	+0.035 <sup>81</sup>
180	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	180	-0.048 <sup>83</sup>
190	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	190	-0.128 <sup>80</sup>
200	50.262	.269	.277	.284	.292	50.299	.307	.314	.322	.329	200	-0.205 <sup>77</sup>
210	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	210	-0.275 <sup>70</sup>
220	.262	.268	.273	.279	.285	.291	.297	.303	.308	.314	220	-0.338 <sup>63</sup>
230	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	230	-0.390 <sup>52</sup>
240	50.262	.265	.269	.272	.275	50.279	.282	.286	.289	.293	240	-0.430 <sup>40</sup>
250	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	250	-0.456 <sup>26</sup>
260	.262	.263	.263	.264	.265	.265	.266	.266	.267	.267	260	-0.470 <sup>14</sup>
270	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	270	-0.469 <sup>1</sup>
280	50.262	.260	.257	.255	.253	50.251	.249	.247	.244	.242	280	-0.453 <sup>16</sup>
290	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	290	-0.424 <sup>29</sup>
300	.262	.257	.253	.248	.243	.238	.233	.228	.223	.218	300	-0.382 <sup>42</sup>
310	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	310	-0.328 <sup>54</sup>
320	50.262	.255	.249	.242	.235	50.228	.221	.214	.207	.200	320	-0.265 <sup>63</sup>
330	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	330	-0.193 <sup>72</sup>
340	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	340	-0.116 <sup>77</sup>
350	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	350	-0.035 <sup>81</sup>
360	50.262	.254	.245	.237	.229	50.221	.213	.205	.196	.188	360	+0.048 <sup>83</sup>

Präzession in Länge $p_\lambda$											Präz. in Br. $p_\beta$	
Länge $\lambda$	Breite $\beta$										Länge $\lambda$	Präzession $p_\beta$
	$0^\circ$	$-1^\circ$	$-2^\circ$	$-3^\circ$	$-4^\circ$	$-5^\circ$	$-6^\circ$	$-7^\circ$	$-8^\circ$	$-9^\circ$		
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

$\delta$ $\varphi$	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
—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 4.0	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 9.3	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	6 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 59.7	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 12.9
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

☉	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
—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 28.4	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
—20	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 57.9	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	9 8.7	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 42.9
29	8 51.0	8 58.7	9 7.0	9 16.1	9 26.0	9 37.1	9 49.6	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	10 18.5	—

## Reduktionstafel

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°
1920											
Jan. 1	-62.7 <sup>m</sup>	-58.0 <sup>m</sup>	-53.1 <sup>m</sup>	-48.0 <sup>m</sup>	-42.5 <sup>m</sup>	-36.7 <sup>m</sup>	-30.5 <sup>m</sup>	-23.8 <sup>m</sup>	-16.5 <sup>m</sup>	-8.7 <sup>m</sup>	0.0 <sup>m</sup>
11	-58.7	-54.3	-49.7	-44.8	-39.8	-34.2	-28.4	-22.1	-15.4	-8.0	0.0
21	-52.4	-48.4	-44.3	-40.0	-35.4	-30.5	-25.3	-19.7	-13.7	-7.1	0.0
31	-44.6	-41.1	-37.6	-33.9	-29.9	-25.8	-21.4	-16.6	-11.6	-6.0	0.0
Febr. 10	-35.8	-33.1	-30.2	-27.2	-24.1	-20.7	-17.1	-13.3	-9.2	-4.8	0.0
20	-26.5	-24.5	-22.3	-20.1	-17.8	-15.3	-12.7	-9.8	-6.7	-3.5	0.0
März 1	-17.0	-15.6	-14.2	-12.8	-11.3	-9.7	-8.0	-6.2	-4.2	-2.2	0.0
11	-7.3	-6.7	-6.1	-5.5	-4.8	-4.1	-3.4	-2.7	-1.8	-0.9	0.0
21	+2.4	+2.3	+2.1	+2.0	+1.8	+1.5	+1.2	+0.9	+0.7	+0.3	0.0
31	+12.0	+11.2	+10.2	+9.3	+8.2	+7.0	+5.8	+4.5	+3.2	+1.6	0.0
April 10	+21.8	+20.1	+18.4	+16.6	+14.6	+12.6	+10.3	+8.1	+5.6	+2.9	0.0
20	+31.3	+28.8	+26.4	+23.8	+20.9	+18.0	+14.9	+11.6	+8.1	+4.2	0.0
30	+40.4	+37.3	+34.1	+30.7	+27.2	+23.4	+19.5	+15.1	+10.6	+5.5	0.0
Mai 10	+49.0	+45.3	+41.4	+37.4	+33.1	+28.5	+23.7	+18.4	+12.9	+6.7	0.0
20	+56.6	+52.4	+48.0	+43.3	+38.4	+33.1	+27.5	+21.6	+15.0	+7.8	0.0
30	+62.8	+58.3	+53.3	+48.2	+42.8	+37.0	+30.8	+24.1	+16.8	+8.8	0.0
Juni 9	+67.1	+62.1	+57.1	+51.6	+45.8	+39.6	+33.0	+25.9	+18.0	+9.5	0.0
19	+68.8	+63.8	+58.6	+53.0	+47.0	+40.7	+33.9	+26.6	+18.5	+9.8	0.0
29	+67.9	+62.9	+57.8	+52.2	+46.4	+40.1	+33.4	+26.2	+18.2	+9.6	0.0
Juli 9	+64.6	+59.7	+54.9	+49.6	+44.0	+38.0	+31.6	+24.8	+17.2	+9.1	0.0
19	+59.0	+54.6	+50.0	+45.2	+40.1	+34.7	+28.8	+22.4	+15.6	+8.2	0.0
29	+51.8	+47.9	+43.9	+39.6	+35.1	+30.3	+25.2	+19.6	+13.6	+7.1	0.0
Aug. 8	+43.6	+40.3	+36.9	+33.3	+29.5	+25.4	+21.1	+16.5	+11.4	+5.9	0.0
18	+34.7	+32.1	+29.3	+26.4	+23.4	+20.2	+16.8	+13.0	+9.0	+4.7	0.0
28	+25.4	+23.5	+21.5	+19.4	+17.1	+14.7	+12.2	+9.5	+6.6	+3.4	0.0
Sept. 7	+16.0	+14.7	+13.5	+12.2	+10.8	+9.3	+7.7	+6.0	+4.1	+2.1	0.0
17	+6.6	+5.9	+5.4	+4.9	+4.4	+3.8	+3.1	+2.5	+1.7	+0.9	0.0
27	-3.1	-2.9	-2.6	-2.3	-2.0	-1.7	-1.4	-1.0	-0.8	-0.4	0.0
Okt. 7	-12.7	-11.7	-10.6	-9.6	-8.4	-7.2	-5.9	-4.6	-3.2	-1.6	0.0
17	-22.3	-20.5	-18.7	-16.8	-14.8	-12.7	-10.4	-8.1	-5.6	-2.9	0.0
27	-31.6	-29.1	-26.6	-23.9	-21.1	-18.1	-15.0	-11.6	-8.1	-4.2	0.0
Nov. 6	-40.5	-37.4	-34.3	-30.8	-27.2	-23.4	-19.4	-15.0	-10.4	-5.5	0.0
16	-48.8	-45.0	-41.1	-37.1	-32.8	-28.2	-23.4	-18.4	-12.7	-6.7	0.0
26	-55.8	-51.6	-47.2	-42.6	-37.7	-32.4	-26.9	-21.1	-14.7	-7.7	0.0
Dec. 6	-61.0	-56.4	-51.7	-46.7	-41.4	-35.7	-29.7	-23.2	-16.1	-8.5	0.0
16	-63.9	-59.1	-54.1	-48.9	-43.3	-37.4	-31.1	-24.3	-16.9	-8.9	0.0
26	-63.9	-59.1	-54.1	-48.9	-43.3	-37.4	-31.1	-24.3	-16.9	-8.9	0.0
36	-61.2	-56.5	-51.7	-46.7	-41.4	-35.7	-29.6	-23.2	-16.1	-8.4	0.0



## für Auf- und Untergang der Sonne

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

$\delta$		Geographische Breite $\varphi$										
		+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
1920												
Jan.	1	0.0	+4.7	+9.6	+14.8	+20.5	+26.4	+32.8	+39.6	+47.0	+55.2	+64.0
	11	0.0	+4.4	+8.9	+13.8	+18.8	+24.4	+30.3	+36.4	+43.2	+50.5	+58.4
	21	0.0	+3.8	+7.9	+12.1	+16.6	+21.4	+26.5	+31.9	+37.6	+43.8	+50.5
	31	0.0	+3.2	+6.6	+10.1	+13.8	+17.9	+22.0	+26.4	+31.2	+36.3	+41.6
Febr.	10	0.0	+2.5	+5.2	+8.0	+10.9	+14.2	+17.4	+20.8	+24.5	+28.4	+32.6
	20	0.0	+1.8	+3.8	+5.8	+7.9	+10.3	+12.7	+15.2	+17.8	+20.6	+23.5
März	1	0.0	+1.2	+2.4	+3.7	+5.0	+6.5	+8.0	+9.5	+11.2	+12.9	+14.6
	11	0.0	+0.5	+1.0	+1.5	+2.1	+2.8	+3.4	+4.0	+4.6	+5.4	+6.1
	21	0.0	-0.2	-0.4	-0.6	-0.8	-1.0	-1.3	-1.5	-1.8	-2.1	-2.5
	31	0.0	-0.9	-1.8	-2.7	-3.8	-4.7	-5.9	-7.1	-8.3	-9.7	-11.0
April	10	0.0	-1.5	-3.2	-4.9	-6.8	-8.5	-10.5	-12.7	-14.9	-17.3	-19.8
	20	0.0	-2.2	-4.6	-7.1	-9.8	-12.4	-15.3	-18.4	-21.7	-25.1	-28.9
	30	0.0	-3.0	-6.1	-9.3	-12.8	-16.3	-20.1	-24.1	-28.5	-33.1	-38.1
Mai	10	0.0	-3.6	-7.4	-11.4	-15.7	-20.1	-24.8	-30.0	-35.5	-41.3	-47.6
	20	0.0	-4.2	-8.7	-13.4	-18.4	-23.7	-29.4	-35.6	-42.2	-49.3	-57.1
Juni	30	0.0	-4.7	-9.8	-15.2	-20.8	-27.0	-33.4	-40.4	-48.0	-56.4	-65.6
	9	0.0	-5.1	-10.6	-16.4	-22.6	-29.2	-36.3	-44.1	-52.4	-61.7	-72.1
	19	0.0	-5.3	-10.9	-16.9	-23.3	-30.2	-37.5	-45.6	-54.4	-64.0	-75.1
Juli	29	0.0	-5.2	-10.7	-16.6	-22.9	-29.6	-36.3	-44.8	-53.4	-62.8	-73.7
	9	0.0	-4.9	-10.1	-15.6	-21.5	-27.8	-34.5	-41.9	-49.8	-58.6	-68.1
Aug.	19	0.0	-4.4	-9.1	-14.0	-19.3	-24.9	-31.0	-37.4	-44.4	-51.9	-60.2
	29	0.0	-3.8	-7.9	-12.1	-16.6	-21.5	-26.6	-32.1	-37.9	-44.2	-51.0
	8	0.0	-3.2	-6.5	-10.0	-13.8	-17.8	-22.0	-26.4	-31.1	-36.1	-41.5
Sept.	18	0.0	-2.5	-5.1	-7.8	-10.8	-13.9	-17.2	-20.6	-24.3	-28.1	-32.3
	28	0.0	-1.8	-3.7	-5.7	-7.8	-10.1	-12.4	-14.9	-17.5	-20.3	-23.2
	7	0.0	-1.2	-2.3	-3.6	-4.9	-6.3	-7.8	-9.3	-10.9	-12.7	-14.5
Okt.	17	0.0	-0.5	-0.9	-1.5	-2.0	-2.6	-3.2	-3.8	-4.5	-5.2	-5.9
	27	0.0	+0.2	+0.5	+0.6	+0.9	+1.1	+1.3	+1.5	+1.9	+2.2	+2.5
	7	0.0	+0.9	+1.8	+2.8	+3.8	+4.8	+5.9	+7.0	+8.3	+9.6	+10.9
Nov.	17	0.0	+1.6	+3.2	+4.9	+6.7	+8.5	+10.4	+12.5	+14.8	+17.1	+19.6
	27	0.0	+2.2	+4.6	+7.0	+9.6	+12.3	+15.1	+18.1	+21.4	+24.7	+28.4
	6	0.0	+2.9	+6.0	+9.1	+12.6	+16.0	+19.8	+23.7	+28.0	+32.6	+37.5
Dez.	16	0.0	+3.6	+7.3	+11.2	+15.4	+19.6	+24.3	+29.3	+34.6	+40.2	+46.4
	26	0.0	+4.1	+8.4	+13.1	+17.9	+23.0	+28.4	+34.3	+40.6	+47.4	+54.8
	6	0.0	+4.6	+9.3	+14.5	+19.8	+25.6	+31.8	+38.3	+45.4	+53.1	+61.5
Jan.	16	0.0	+4.8	+9.8	+15.2	+20.9	+27.0	+33.5	+40.5	+48.2	+56.4	+65.6
	26	0.0	+4.8	+9.8	+15.2	+20.9	+27.0	+33.5	+40.5	+48.2	+56.4	+65.6
	36	0.0	+4.6	+9.3	+14.4	+19.8	+25.6	+31.8	+38.3	+45.5	+53.3	+61.7

## 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 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	+37.2	+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

\*)  $t$  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	Junio	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
o	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	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o
o	o <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 n. Chr.	Januar o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dec. 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.			
°	h	m	s	°	h	m	s	°	h	m	s	°	h	m	s	°	m	s	°	m	s
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.	Red.	Red.
0	h <sup>h</sup> m <sup>m</sup> s <sup>s</sup>	h <sup>h</sup> m <sup>m</sup> s <sup>s</sup>	h <sup>h</sup> m <sup>m</sup> s <sup>s</sup>	h <sup>h</sup> m <sup>m</sup> s <sup>s</sup>	0.00	0 <sup>m</sup> 0 <sup>s</sup>	0.50 3 <sup>m</sup> 3 <sup>s</sup>
1	0 6 6	6 12 21	12 18 35	18 24 50	0.01	0 4	0.51 3 7
2	0 12 12	6 18 27	12 24 42	18 30 56	0.02	0 7	0.52 3 10
3	0 18 19	6 24 33	12 30 48	18 37 2	0.03	0 11	0.53 3 14
4	0 24 25	6 30 40	12 36 54	18 43 9	0.04	0 15	0.54 3 18
5	0 30 31	6 36 46	12 43 0	18 49 15	0.05	0 18	0.55 3 21
6	0 36 37	6 42 52	12 49 7	18 55 21	0.06	0 22	0.56 3 25
7	0 42 44	6 48 58	12 55 13	19 1 27	0.07	0 26	0.57 3 29
8	0 48 50	6 55 4	13 1 19	19 7 34	0.08	0 29	0.58 3 32
9	0 54 56	7 1 11	13 7 25	19 13 40	0.09	0 33	0.59 3 36
10	1 1 2	7 7 17	13 13 31	19 19 46	0.10	0 37	0.60 3 40
11	1 7 9	7 13 23	13 19 38	19 25 52	0.11	0 40	0.61 3 43
12	1 13 15	7 19 29	13 25 44	19 31 59	0.12	0 44	0.62 3 47
13	1 19 21	7 25 36	13 31 50	19 38 5	0.13	0 48	0.63 3 51
14	1 25 27	7 31 42	13 37 56	19 44 11	0.14	0 51	0.64 3 54
15	1 31 34	7 37 48	13 44 3	19 50 17	0.15	0 55	0.65 3 58
16	1 37 40	7 43 54	13 50 9	19 56 23	0.16	0 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

m	0 <sup>h</sup>		1 <sup>h</sup>		2 <sup>h</sup>		3 <sup>h</sup>		4 <sup>h</sup>		5 <sup>h</sup>		s	d
	a	d	a	d	a	d	a	d	a	d	a	d		
0	.000000	0.041667	0.083333	0.125000	0.166667	0.208333	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	.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	.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	.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	.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	.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	.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	.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	.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	.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	.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	.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>		o	d
	a	d	a	d	a	d	a	d	a	d	a	d		
0	0.250000	0.291667	0.333333	0.375000	0.416667	0.458333	0	0.000000						
1	.250694	.292361	.334028	.375694	.417361	.459028	1	.000012						
2	.251389	.293056	.334722	.376389	.418056	.459722	2	.000023						
3	.252083	.293750	.335417	.377083	.418750	.460417	3	.000035						
4	.252778	.294444	.336111	.377778	.419444	.461111	4	.000046						
5	0.253472	0.295139	0.336806	0.378472	0.420139	0.461806	5	0.000058						
6	.254167	.295833	.337500	.379167	.420833	.462500	6	.000069						
7	.254861	.296528	.338194	.379861	.421528	.463194	7	.000081						
8	.255556	.297222	.338889	.380556	.422222	.463889	8	.000093						
9	.256250	.297917	.339583	.381250	.422917	.464583	9	.000104						
10	0.256944	0.298611	0.340278	0.381944	0.423611	0.465278	10	0.000116						
11	.257639	.299306	.340972	.382639	.424306	.465972	11	.000127						
12	.258333	.300000	.341667	.383333	.425000	.466667	12	.000139						
13	.259028	.300694	.342361	.384028	.425694	.467361	13	.000150						
14	.259722	.301389	.343056	.384722	.426389	.468056	14	.000162						
15	0.260417	0.302083	0.343750	0.385417	0.427083	0.468750	15	0.000174						
16	.261111	.302778	.344444	.386111	.427778	.469444	16	.000185						
17	.261806	.303472	.345139	.386806	.428472	.470139	17	.000197						
18	.262500	.304167	.345833	.387500	.429167	.470833	18	.000208						
19	.263194	.304861	.346528	.388194	.429861	.471528	19	.000220						
20	0.263889	0.305556	0.347222	0.388889	0.430556	0.472222	20	0.000231						
21	.264583	.306250	.347917	.389583	.431250	.472917	21	.000243						
22	.265278	.306944	.348611	.390278	.431944	.473611	22	.000255						
23	.265972	.307639	.349306	.390972	.432639	.474306	23	.000266						
24	.266667	.308333	.350000	.391667	.433333	.475000	24	.000278						
25	0.267361	0.309028	0.350694	0.392361	0.434028	0.475694	25	0.000289						
26	.268056	.309722	.351389	.393056	.434722	.476389	26	.000301						
27	.268750	.310417	.352083	.393750	.435417	.477083	27	.000313						
28	.269444	.311111	.352778	.394444	.436111	.477778	28	.000324						
29	.270139	.311806	.353472	.395139	.436806	.478472	29	.000336						
30	0.270833	0.312500	0.354167	0.395833	0.437500	0.479167	30	0.000347						
31	.271528	.313194	.354861	.396528	.438194	.479861	31	.000359						
32	.272222	.313889	.355556	.397222	.438889	.480556	32	.000370						
33	.272917	.314583	.356250	.397917	.439583	.481250	33	.000382						
34	.273611	.315278	.356944	.398611	.440278	.481944	34	.000394						
35	0.274306	0.315972	0.357639	0.399306	0.440972	0.482639	35	0.000405						
36	.275000	.316667	.358333	.400000	.441667	.483333	36	.000417						
37	.275694	.317361	.359028	.400694	.442361	.484028	37	.000428						
38	.276389	.318056	.359722	.401389	.443056	.484722	38	.000440						
39	.277083	.318750	.360417	.402083	.443750	.485417	39	.000451						
40	0.277778	0.319444	0.361111	0.402778	0.444444	0.486111	40	0.000463						
41	.278472	.320139	.361806	.403472	.445139	.486806	41	.000475						
42	.279167	.320833	.362500	.404167	.445833	.487500	42	.000486						
43	.279861	.321528	.363194	.404861	.446528	.488194	43	.000498						
44	.280556	.322222	.363889	.405556	.447222	.488889	44	.000509						
45	0.281250	0.322917	0.364583	0.406250	0.447917	0.489583	45	0.000521						
46	.281944	.323611	.365278	.406944	.448611	.490278	46	.000532						
47	.282639	.324306	.365972	.407639	.449306	.490972	47	.000544						
48	.283333	.325000	.366667	.408333	.450000	.491667	48	.000556						
49	.284028	.325694	.367361	.409028	.450694	.492361	49	.000567						
50	0.284722	0.326389	0.368056	0.409722	0.451389	0.493056	50	0.000579						
51	.285417	.327083	.368750	.410417	.452083	.493750	51	.000591						
52	.286111	.327778	.369444	.411111	.452778	.494444	52	.000602						
53	.286806	.328472	.370139	.411806	.453472	.495139	53	.000613						
54	.287500	.329167	.370833	.412500	.454167	.495833	54	.000625						
55	0.288194	0.329861	0.371528	0.413194	0.454861	0.496528	55	0.000637						
56	.288889	.330556	.372222	.413889	.455556	.497222	56	.000648						
57	.289583	.331250	.372917	.414583	.456250	.497917	57	.000660						
58	.290278	.331944	.373611	.415278	.456944	.498611	58	.000671						
59	.290972	.332639	.374306	.415972	.457639	.499306	59	.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+	-1 5.3+	225
1	0.0	268	0 1.6	181	46	0.6	187	1 6.4	226
2	0.0	268	0 3.2	182	47	0.6	183	1 7.5	227
3	0.1	268	0 4.8	183	48	0.6	180	1 8.6	228
4	0.1	268	0 6.4	184	49	0.6	176	1 9.7	229
5	+0.1+	-0.0268+	0 8.0+	185	50	+0.6+	-0.0173+	-1 10.7+	230
6	0.1	267	0 9.7	186	51	0.6	169	1 11.8	231
7	0.1	267	0 11.3	187	52	0.6	165	1 12.8	232
8	0.2	266	0 12.9	188	53	0.6	162	1 13.8	233
9	0.2	265	0 14.4	189	54	0.6	158	1 14.7	234
10	+0.2+	-0.0264+	0 16.0+	190	55	+0.6+	-0.0154+	-1 15.6+	235
11	0.2	264	0 17.6	191	56	0.6	150	1 16.6	236
12	0.2	263	0 19.2	192	57	0.6	146	1 17.4	237
13	0.3	262	0 20.8	193	58	0.6	142	1 18.3	238
14	0.3	261	0 22.3	194	59	0.5	138	1 19.2	239
15	+0.3+	-0.0259+	0 23.9+	195	60	+0.5+	-0.0134+	-1 20.0+	240
16	0.3	258	0 25.5	196	61	0.5	130	1 20.8	241
17	0.3	257	0 27.0	197	62	0.5	126	1 21.5	242
18	0.4	255	0 28.5	198	63	0.5	122	1 22.3	243
19	0.4	254	0 30.1	199	64	0.5	118	1 23.0	244
20	+0.4+	-0.0252+	0 31.6+	200	65	+0.5+	-0.0114+	-1 23.7+	245
21	0.4	251	0 33.1	201	66	0.5	109	1 24.4	246
22	0.4	249	0 34.6	202	67	0.4	105	1 25.0	247
23	0.4	247	0 36.1	203	68	0.4	101	1 25.6	248
24	0.5	245	0 37.6	204	69	0.4	96	1 26.2	249
25	+0.5+	-0.0243+	0 39.0+	205	70	+0.4+	-0.0092+	-1 26.8+	250
26	0.5	241	0 40.5	206	71	0.4	87	1 27.3	251
27	0.5	239	0 41.9	207	72	0.4	83	1 27.8	252
28	0.5	237	0 43.4	208	73	0.3	79	1 28.3	253
29	0.5	235	0 44.8	209	74	0.3	74	1 28.8	254
30	+0.5+	-0.0233+	0 46.2+	210	75	+0.3+	-0.0070+	-1 29.2+	255
31	0.5	230	0 47.6	211	76	0.3	65	1 29.6	256
32	0.6	228	0 48.9	212	77	0.3	60	1 30.0	257
33	0.6	225	0 50.3	213	78	0.2	56	1 30.3	258
34	0.6	223	0 51.6	214	79	0.2	51	1 30.6	259
35	+0.6+	-0.0220+	0 53.0+	215	80	+0.2+	-0.0047+	-1 30.9+	260
36	0.6	217	0 54.3	216	81	0.2	42	1 31.2	261
37	0.6	214	0 55.6	217	82	0.2	37	1 31.4	262
38	0.6	212	0 56.9	218	83	0.1	33	1 31.6	263
39	0.6	209	0 58.1	219	84	0.1	28	1 31.8	264
40	+0.6+	-0.0206+	0 59.4+	220	85	+0.1+	-0.0023+	-1 32.0+	265
41	0.6	203	1 0.6	221	86	0.1	19	1 32.1	266
42	0.6	200	1 1.8	222	87	0.1	14	1 32.2	267
43	0.6	196	1 3.0	223	88	0.0	9	1 32.3	268
44	0.6	193	1 4.1	224	89	0.0	5	1 32.3	269
45	+0.6+	-0.0190+	-1 5.3+	225	90	+0.0+	-0.0000+	-1 32.3+	270

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_G; \quad b' = B - \beta$$

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

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

$L_G$  = Mittlere Länge des Mondes,  $\Omega$  = Mondknoten (siehe Seite 58)

## zur Berechnung der optischen Mondlibration

$\lambda - \delta$	$\Delta\lambda$	$a$	$B$	$\lambda - \delta$	$\lambda - \delta$	$\Delta\lambda$	$a$	$B$	$\lambda - \delta$
90	-0.0	+0.0000	I 32.3+	270	135	-0.6	+0.0190	-I 5.3+	315
91	0.0	05	I 32.3	271	136	0.6	193	I 4.1	316
92	0.0	09	I 32.3	272	137	0.6	196	I 3.0	317
93	0.1	14	I 32.2	273	138	0.6	200	I 1.8	318
94	0.1	19	I 32.1	274	139	0.6	203	I 0.6	319
95	-0.1	+0.0023	-I 32.0+	275	140	-0.6	+0.0206	-0 59.4+	320
96	0.1	28	I 31.8	276	141	0.6	209	0 58.1	321
97	0.1	33	I 31.6	277	142	0.6	212	0 56.9	322
98	0.2	37	I 31.4	278	143	0.6	214	0 55.6	323
99	0.2	42	I 31.2	279	144	0.6	217	0 54.3	324
100	-0.2	+0.0047	-I 30.9+	280	145	-0.6	+0.0220	-0 53.0+	325
101	0.2	51	I 30.6	281	146	0.6	223	0 51.6	326
102	0.2	56	I 30.3	282	147	0.6	225	0 50.3	327
103	0.3	60	I 30.0	283	148	0.6	228	0 48.9	328
104	0.3	65	I 29.6	284	149	0.5	230	0 47.6	329
105	-0.3	+0.0070	-I 29.2+	285	150	-0.5	+0.0233	-0 46.2+	330
106	0.3	74	I 28.8	286	151	0.5	235	0 44.8	331
107	0.3	79	I 28.3	287	152	0.5	237	0 43.4	332
108	0.4	83	I 27.8	288	153	0.5	239	0 41.9	333
109	0.4	87	I 27.3	289	154	0.5	241	0 40.5	334
110	-0.4	+0.0092	-I 26.8+	290	155	-0.5	+0.0243	-0 39.0+	335
111	0.4	096	I 26.2	291	156	0.5	245	0 37.6	336
112	0.4	101	I 25.6	292	157	0.4	247	0 36.1	337
113	0.4	105	I 25.0	293	158	0.4	249	0 34.6	338
114	0.5	109	I 24.4	294	159	0.4	251	0 33.1	339
115	-0.5	+0.0114	-I 23.7+	295	160	-0.4	+0.0252	-0 31.6+	340
116	0.5	118	I 23.0	296	161	0.4	254	0 30.1	341
117	0.5	122	I 22.3	297	162	0.4	255	0 28.5	342
118	0.5	126	I 21.5	298	163	0.3	257	0 27.0	343
119	0.5	130	I 20.8	299	164	0.3	258	0 25.5	344
120	-0.5	+0.0134	-I 20.0+	300	165	-0.3	+0.0259	-0 23.9+	345
121	0.5	138	I 19.2	301	166	0.3	261	0 22.3	346
122	0.6	142	I 18.3	302	167	0.3	262	0 20.8	347
123	0.6	146	I 17.4	303	168	0.2	263	0 19.2	348
124	0.6	150	I 16.5	304	169	0.2	264	0 17.6	349
125	-0.6	+0.0154	-I 15.6+	305	170	-0.2	+0.0264	-0 16.0+	350
126	0.6	158	I 14.7	306	171	0.2	265	0 14.4	351
127	0.6	162	I 13.8	307	172	0.2	266	0 12.9	352
128	0.6	165	I 12.8	308	173	0.1	267	0 11.3	353
129	0.6	169	I 11.8	309	174	0.1	267	0 9.7	354
130	-0.6	+0.0173	-I 10.7+	310	175	-0.1	+0.0268	-0 8.0+	355
131	0.6	176	I 9.7	311	176	0.1	268	0 6.4	356
132	0.6	180	I 8.6	312	177	0.1	268	0 4.8	357
133	0.6	183	I 7.5	313	178	0.0	268	0 3.2	358
134	0.6	187	I 6.4	314	179	0.0	268	0 1.6	359
135	-0.6	+0.0190	-I 5.3+	315	180	-0.0	+0.0269	-0 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,  $\delta$  = 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 38.5	-9 14 20.42	-91.06	-34 44 46.1	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 1m 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 (Oibers' 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
Breteil 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. Inst. . . . .	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 (Mil. 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>6)</sup> Fechn. Hochsch. . . . .	60	+52 30 48.7	— 0 53 20.5	— 8.76	+52 19 36.2	9.999085
Charlottesville <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 (Bilk) . . . . .	46	+51 12 25.0	— 0 27 2.69	— 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

1) Herr von Bülow. — 2) Bureau international des Poids et Mesures. — 3) Observ. der Kgl. ungar. Universität. — 4) Harvard College Observatory. — 5) 1883 nach Tacubaya verlegt. — 6) Leander Mc. Cormick Obs. der University of Virginia. — 7) 1887 geschlossen. — 8) Mount Lookout, seit 1873. — 9) Laws Observatory. — 10) University Park, Chamberlin Observatory. — 11) v. Engelhardt; Herbst 1897 aufgelöst. Alte Sternwarte 14".2 nördlich, 1".57 westlich. — 12) 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 <sup>m</sup>	+55° 55' 28.0"	+0° 12' 44.5"	+ 2.09	+55° 44' 41.5"	9.999007
Evanston (Dearborn Obs.)	175	+42° 3' 33.4"	+5° 50' 42.3"	+57.61	+41° 52' 1.6"	9.999358
Flagstaff (Lowell Obs.) .	2210	+35° 12' 30.5"	+7° 26' 44.6"	+73.39	+35° 1' 35.8"	9.999667
Florenz (Alte Sternw.) <sup>1)</sup> .	73	+43° 46' 4.1"	-0° 45' 1.30"	- 7.40	+43° 34' 29.2"	9.999308
Florenz (Mil. Geogr. Inst.)	—	+43° 46' 49.3"	-0° 45' 2.52"	- 7.40	+43° 35' 14.4"	9.999303
Frankfurt a. M. . . . .	121	+50° 7' 0"	-0° 34' 36.3"	- 5.70	+49° 55' 35"	9.999149
Genf Mer.-Kreis . . . . .	407	+46° 11' 59.1"	-0° 24' 36.61"	- 4.04	+46° 0' 23.9"	9.999269
Genua (Mar. Stw.) Mer.-Kr.	105	+44° 25' 9.3"	-0° 35' 41.28"	- 5.86	+44° 13' 33.8"	9.999293
Georgetown D. C. . . . .	46	+38° 54' 26.2"	+5° 8' 18.33"	+50.65	+38° 43' 6.7"	9.999429
Glasgow Schottl. . . . .	55	+55° 52' 42.6"	+0° 17' 10.55"	+ 2.82	+55° 41' 55.7"	9.999003
Glasgow Missouri . . . . .	228	+39° 13' 45.6"	+6° 11' 18.06"	+61.00	+39° 2' 24.5"	9.999433
Göttingen Mer.-Kreis . . .	161	+51° 31' 48.2"	-0° 39' 46.22"	- 6.53	+51° 20' 30.0"	9.999117
Gohlis <sup>2)</sup> . . . . .	108	+51° 21' 35.0"	-0° 49' 29.54"	- 8.13	+51° 10' 15.9"	9.999117
Gotha (Neue Stw.) Zentr. d. St. <sup>3)</sup>	320	+50° 56' 37.5"	-0° 42' 50.52"	- 7.04	+50° 45' 16.3"	9.999142
Graz . . . . .	375	+47° 4' 37.2"	-1° 1' 48"	-10.15	+46° 53' 3.2"	9.999244
Greenwich Transit Circle	47	+51° 28' 38.1"	0° 0' 0.00"	0.00	+51° 17' 19.6"	9.999110
Grignon . . . . .	—	+47° 33' 42"	-0° 17' 38"	- 2.89	+47° 22' 9"	9.999206
Groningen . . . . .	4	+53° 13' 19.1"	-0° 26' 15.2"	- 4.31	+53° 2' 11.3"	9.999064
Hamburg (Alt. Stw.) M.-Kr. <sup>4)</sup>	25	+53° 33' 6.0"	-0° 39' 53.60"	- 6.55	+53° 22' 0.4"	9.999057
Hamburg (D. Seewarte) . .	30	+53° 32' 51.8"	-0° 39' 53.42"	- 6.55	+53° 21' 46.2"	9.999058
Hanover N. H. . . . .	183	+43° 42' 15.2"	+4° 49' 8.00"	+47.50	+43° 30' 40.4"	9.999317
Harrow (Col. Tupmann) . . .	66	+51° 34' 47.4"	+0° 1' 19.9"	+ 0.39	+51° 23' 29.5"	9.999109
Hastings on Huds. <sup>5)</sup> . . . .	—	+40° 59' 25"	+4° 55' 29.7"	+48.55	+40° 47' 56"	9.999373
Haverford . . . . .	—	+40° 0' 36.5"	+5° 1' 12.79"	+49.48	+39° 49' 11.8"	9.999398
Heidelberg (Wolfs Stw.) . .	—	+49° 24' 35"	-0° 34' 48.4"	- 5.72	+49° 13' 7"	9.999159
Heidelberg (Königst.) M.-Kr.	570	+49° 23' 54.6"	-0° 34' 53.13"	- 5.73	+49° 12' 26.8"	9.999198
St. Helena . . . . .	210	-15° 55' 26"	+0° 22' 52.2"	+ 3.76	-15° 49' 20"	9.999905
Helsingfors Mer.-Kreis . .	38	+60° 9' 42.6"	-1° 39' 49.10"	-16.40	+59° 59' 41.1"	9.998903
Helwan . . . . .	119	+29° 51' 33"	-2° 5' 22"	-20.59	+29° 41' 33"	9.999648
Herény (von Gothard) . . .	229	+47° 15' 47.4"	-1° 6' 24.6"	-10.91	+47° 4' 13.7"	9.999229
Hongkong . . . . .	34	+22° 18' 13.2"	-7° 36' 41.9"	-75.02	+22° 10' 5.8"	9.999793
Hudson . . . . .	—	+41° 14' 42.6"	+5° 25' 44.19"	+53.51	+41° 3' 13.2"	9.999367
Ipswich (Orwell Park) <sup>6)</sup> . .	—	+52° 0' 33"	-0° 4' 55.8"	- 0.81	+51° 49' 17"	9.999094
Jena (Univers.) Zentr. d. St.	156	+50° 55' 35.6"	-0° 46' 20.22"	- 7.61	+50° 44' 14.3"	9.999131
Jena (Winkler) . . . . .	174	+50° 56' 15.7"	-0° 46' 20.73"	- 7.61	+50° 44' 54.5"	9.999132
Johannesburg . . . . .	1806	-26° 10' 55.0"	-1° 52' 18.00"	-18.45	-26° 1' 45.2"	9.999840

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

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. $\rho$ incl. Seehöhe
Kairo . . . . .	— <sup>m</sup>	+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
Kopenhagen (Neue Stw.) <sup>5)</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>6)</sup>	6	+52 9 20.2	—0 17 56.15	—2.94	+51 58 5.6	9.999090
Leipzig (Neue Stw.) Zentr. <sup>7)</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>8)</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>9)</sup>	61	+53 24 3.8	+0 12 17.2	+2.02	+53 12 57.2	9.999063
London <sup>10)</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>11)</sup> . . . . .	42	+44 32 11	—0 57 52.3	—9.50	+44 20 35	9.999286
Lüttich Ongrée . . . . .	128	+50 37 6	—0 22 12	—3.65	+50 25 43	9.999137
Lyon . . . . .	299	+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
Manila . . . . .	3	+14 35 25	—8 3 50	—79.48	+14 29 47	9.999908

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

Name	Sec- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. p incl. Seehöhe
Mannheim Zentr. d. Stw.	98 <sup>m</sup>	+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 (Iick) 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 (Filiäle 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 (Radcl. Obs.) . .	65	+51° 45' 35.4"	+0° 5' 2.6"	+ 0.83	+51° 34' 18.5"	9.999104
Oxford (Univers.) . . . .	64	+51° 45' 34.2"	+0° 5' 0.4"	+ 0.82	+51° 34' 17.3"	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 Unkrchtsberg.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. $\rho$ incl. Seehöhe
Oxford Mississippi	— <sup>m</sup>	+34° 22' 12.6"	+ 5 <sup>h</sup> 58 <sup>m</sup> 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) Mer.-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
San Fernando . . . . .	31	+36 27 40.4	+ 0 24 49.37	+ 4.08	+36 16 36.1	9.999488

1) Flower Obs. (Univ. of Pennsylvania). — 2) Dr. Jędrzejewicz; 1898 nach Warschau verlegt.  
 — 3) Observatorio Regional do Rio Grande do Sul. — 4) Vassar College. — 5) Alte Sternwarte  
 2° nördlich, 1° 94 östlich; 65<sup>m</sup>. — 6) 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 Francisco <sup>1)</sup> . . . . .	— <sup>m</sup>	+37° 47' 28.0"	+ 8 <sup>h</sup> 9 <sup>m</sup> 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
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 (Ebro-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 (Ignatius 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
Warschau <sup>6)</sup> . . . . .	—	+52 13 10	— 1 24 5	—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

<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. — <sup>6)</sup> Dr. Jedrzejewicz; seit 1898, früher in Plonsk.

Name	See- höhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. $\rho$ incl. Seehöhe
Washington (Neue Stw.) .	82 <sup>m</sup>	+38° 55' 14.0"	+ 5 <sup>h</sup> 8 <sup>m</sup> 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>1)</sup>	127	-41 17 3.8	-11 39 4.27	-114.84	-41 5 34.3	9.999375
Wellington (Mt. Cook Obs.) <sup>2)</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>3)</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>4)</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>5)</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>6)</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>7)</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

1) Hector Observatory. — 2) 1884 abgebrochen. — 3) Seit 1883. Alte Sternwarte 9" nördlich, 1".2 östlich. — 4) von Oppolzers Sternwarte. — 5) v. Kuffner. — 6) Yerkes Observatory. — 7) 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> O.	—	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	Mitteuropäische Z. (M. E. Z.)	Dänemark, Deutschland, Italien, Luxemburg, Norwegen, Österreich-Ungarn, Schweden, Schweiz, Serbien, 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 W.	Niederlande	Amsterdam	0 <sup>h</sup> 19 <sup>m</sup> 32.1 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:  $9^s.8565 \Delta\lambda$ . 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 Bahnberechnungen 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 Koordinatenangaben 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  $34'.9$  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

$\Delta$ , Stück des Mondäquators zwischen Ekliptik und Erdäquator

$\vartheta$ , der aufsteigende Knoten des Mondäquators auf der Ekliptik ist gleich dem absteigenden Knoten der Mondbahn, also

$$\vartheta = \Omega \pm 180^{\circ}.$$

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

$$\sin \frac{1}{2} (\Delta + \Omega') \cos \frac{1}{2} i = \cos \frac{1}{2} (\varepsilon - J) \sin \frac{1}{2} \vartheta$$

$$\cos \frac{1}{2} (\Delta + \Omega') \cos \frac{1}{2} i = \cos \frac{1}{2} (\varepsilon + J) \cos \frac{1}{2} \vartheta$$

$$\sin \frac{1}{2} (\Delta - \Omega') \sin \frac{1}{2} i = \sin \frac{1}{2} (\varepsilon - J) \sin \frac{1}{2} \vartheta$$

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

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. 7 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  $\alpha_{\zeta} - \alpha_k$  in Rektaszension und  $\delta_{\zeta} - \delta_k$  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  $p_{\zeta}$  zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Beobachtungen des Kraters interpoliere man  $\alpha_{\zeta} - \alpha_k$ ,  $\delta_{\zeta} - \delta_k$  und  $\log \sin p_k$  mit der Beobachtungszeit. Fügt man alsdann  $\alpha_{\zeta} - \alpha_k$  und  $\delta_{\zeta} - \delta_k$  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  $\alpha'_{\zeta} - \alpha'_k$  und  $\delta'_{\zeta} - \delta'_k$  zwischen Mondmittelpunkt und Mösting A aus folgenden Identitäten:

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

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  $\alpha'_{\zeta}$  und  $\delta'_{\zeta}$  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 angeschlossen en Kraters, so hat man:

$$s \sin \pi_m = (\alpha' - \alpha'_{\zeta}) \cos \frac{1}{2} (\delta' + \delta'_{\zeta})$$

$$s \cos \pi_m = \delta' - \delta'_{\zeta}$$

$$\pi = \pi_m - \frac{1}{2} (\alpha' - \alpha'_{\zeta}) \sin \frac{1}{2} (\delta' + \delta'_{\zeta})$$

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

$h'$  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.

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

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:

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

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 ermittelte 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:

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

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 1920.0 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 beigefügten 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  $\text{tg } \delta$  und  $\text{sec } \delta$ , 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 $\varepsilon$ Eridani	» $0.32$	Nr. 745 $\alpha$ Aquilae	» $0.23$
Nr. 257 $\alpha$ Can. maj.	» $0.38$	Nr. 793 $61$ 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,  $\varepsilon$  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 1920.0.
- 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 man der Seite 370 entnehmen kann.

Auf Seite 371 findet sich eine Tafel der Hilfsgrößen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium von 1920.0 sowie eine Tafel der Hilfsgrößen zur Berechnung der Präzession von verschiedenen mittleren Äquinoktien bis 1920.0. Die Formeln zur Übertragung der Polsternörter von dem Äquinoktium  $t_2$  auf  $t_1$  lauten:

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

$$p_2 = - \left( \tan \delta_2 - \cos a_2 \tan \frac{1}{2}(n) \right) \sin(n)$$

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

$$a_1 = a_2 - [90^\circ - (N)] + \Delta a_2$$

$$\tan \frac{1}{2}(\delta_1 - \delta_2) = - \cos(a_2 + \frac{1}{2} \Delta a_2) \sec \frac{1}{2} \Delta a_2 \tan \frac{1}{2}(n)$$

Eine Tafel zur Übertragung von Sternörtern vom mittleren Äquinoktium von 1920.0 auf das Normaläquinoktium 1925.0 (auf Seite 372 bis 374) beschließt die Sammlung der Tafeln der Reduktionsgrößen.

### Sonnen- und Mondfinsternisse (S. 376—382).

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 durchgangs = 15 anzusetzen.)

### Sternbedeckungen durch den Mond (S. 383—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 Längenskreise; 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

$$2 R = 39''.35.$$

## 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:

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

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

( $D$ ) = 9.53887 bezeichnet den mittleren Wert der Entfernung Sonne—Saturn,  $D$  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:

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

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

Die Werte von  $\vartheta$ , 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 Örtter 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 1920 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 (*Publikation des Astrophys. Observatoriums zu Potsdam*, Bd. VIII, Seite 197 ff.) zugrunde gelegt:

$$h = -4.004 + 0.01322 \alpha + 0.0000004247 \alpha^3 + 5 \log (r \Delta),$$

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

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

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

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

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  $+30^\circ$  bis  $+60^\circ$  und Deklinationen von  $-30^\circ$  bis  $+30^\circ$ .

3) Reduktionstafeln für die Auf- und Untergangszeiten der Sonne und des Mondes (S. 424—427). Sie geben die Reduktion der für  $+50^\circ$  Breite gültigen Zeiten, wie sie in den Ephemeriden enthalten sind, auf geographische Breiten zwischen  $+30^\circ$  und  $+60^\circ$  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:

$$\Delta\lambda = \frac{1}{\arcsin 1'} \tan^2 \frac{1}{2} J \sin 2(\lambda - \Omega)$$

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

$$\tan B = -\sin(\lambda - \Omega) \tan J$$

$J$  = 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:

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

worin  $\alpha_\alpha, \delta_\alpha$  Rektaszension und Deklination des Mondmittelpunktes, gesehen vom Beobachtungsort aus, bezeichnen; die anderen vorkommenden Größen  $i, \Delta, \Omega$  und  $\Omega'$  haben schon auf S. 450 ihre Erklärung gefunden.

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

$$\varrho \sin \varphi' = s \sin \varphi$$

$$\varrho \cos \varphi' = c \cos \varphi$$

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

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

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

### 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. Die Angaben sind nach dem Stande gemacht, wie er hier Anfang 1918 bekannt war.

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## Berichtigungen.

In dem Vorwort der Jahrgänge 1916—1918 ist die Angabe über den Halbmesser der Sonne zu streichen.

Jahrgang 1920, S. 122, Nr. 322.	$\alpha = 8^h 30^m 50^s.865$ statt $20^s.865$
» » S. 127, Nr. 538.	Jährl. Veränd. in Dekl. $-14''.967$ statt $-15''.967$
» » S. 133, Nr. 764.	$\delta = -56^\circ 59' 33''.19$ statt $-53^\circ 59' 33''.19$
» » S. 134, Nr. 805.	Jährl. Veränd. in Rekt. $+4^s.9924$ statt $+5^s.9924$

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