

Astronomisches Jahrbuch

für

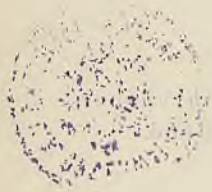
1902.

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einhundert und siebenundzwanzigster Band.

11

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1891



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für

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mit Angaben für die Oppositionen
der Planeten (1)—(440)

für

1900.



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II crasop.

127 (1902)

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A n h ä n g e.

- | | |
|---|-----|
| I. Vorläufige Verbesserungen des Fixstern - Verzeichnisses für 1902.0 | [I] |
| II. Verbesserung der Ephemeride des Mondkraters Mösting A für 1901 | [9] |

Berichtigungen.

Jahrbuch 1899.

Seite 171 2 λ Länge i. d. Bahn Dec. 15 lies: 233° 14' 53".1
anstatt: 233 4 53 .1

Jahrbuch 1901.

Seite 84—86 Die Ephemeride des Kraters Mösting A für 1901 ist von Juli 23 ab fehlerhaft; die berichtigte Ephemeride befindet sich in Anhang II des vorliegenden Jahrgangs 1902.

Seite 251 λ Draconis Decl. lies: 73".3 73".5 74".3 75".7 77".5 79".8
82".4 85".2 88".2 91".1 93".8 96".3 98".5 100".3
101".6 102".4 102".7 102".4 101".6 100".4 98".6 96".5
94".0 91".1 88".0 84".7 80".8 77".3 73".7 70".2
66".9 63".8 61".0 58".6 56".8 55".5 54".8 54".6

Für 1900 ist die Decl. in demselben Betrage zu corrigiren.

Seite 258 α Virginis Decl. Nov. 6 — Dec. 36 lies: 51".3 52".2 53".4 54".8
56".5 58".4 60".3

Seite 306 γ Cephei Decl. lies: 72".1 71".2 69".8 67".8 65".4 62".6 59".6
56".4 53".0 50".1 47".4 45".1 43".2 41".8 41".0 40".8
41".2 42".1 43".5 45".5 47".9 50".7 53".9 57".3 60".9
64".6 68".3 72".1 75".7 79".0 82".2 84".9 87".3 89".1
90".4 91".1 91".2 90".6

Seite 309 Nr. 429 log. b' lies: 9.5543_n anstatt: 9.5533_n

Seite 346 Nr. 34 ν Scorpii Decl. lies: —19° 12' 12".8
anstatt —19 14 12 .8

hiernach erhält der Werth q für diesen Stern in den Elementen der Bedeckungen die Correction: —0.0367

Jahrbuch 1902.

Seite 412 Die Angaben für (423) [1896 *LB*] Juli 13 sind durch folgende zu ersetzen:

423 [1896 *DB*] | Juli 25 | 11.0 | 20^h 14.7 | —33° 12' 0.9 | —4 | 0.291 | 1899

Vorwort.

Nach den Beschlüssen der Pariser Conferenz vom Mai 1896 (*Conférence internationale des étoiles fondamentales. Procès-Verbaux. Paris 1896*) sind im Jahrbuch vom Jahrgang 1901 an durchweg eingeführt:

die Praecessions-Größen nach S. Newcomb (*Astr. Papers Vol. VIII. Part I*),

die Nutations-Constante $9''.21$,

die Aberrations-Constante $20''.47$,

die Sonnen-Parallaxe $8''.80$;

ferner sind in allen Ephemeriden der Sonne, der Planeten und der Fixsterne die kurzperiodischen, von der Mondlänge abhängigen Nutations-Glieder weggelassen; ausgenommen von dieser allgemeinen Regel sind nur die Ephemeriden der Polsterne, die von Tag zu Tag fortschreiten; in diesen ist wohl das allen Sternen gemeinsame Nutations-Glied $f' = -0''.1865 \sin 2\zeta + 0''.0618 \sin (\zeta - \Gamma')$ weggelassen, die übrigen mit der Tangente der Decl. multiplicirten Glieder sind jedoch beibehalten. Das Jahrbuch giebt übrigens die Mittel an die Hand, die weggelassenen Glieder nachträglich anzubringen, worüber die »Erläuterungen« einzusehen sind.

Am Fundamental-Katalog der Fixsterne sind keine Aenderungen vorgenommen worden, den angegebenen Eigenbewegungen liegt also nach wie vor die O. Struve'sche Praecessions-Constante zu Grunde. Im Anhang I. sind diejenigen provisorischen Correctionen der mittleren Oerter zusammengestellt, welche A. Auwers in A. N. Nr. 3508/09 angegeben hat. Die scheinbaren Oerter der Fixsterne sind mit obigen neuen Constanten gerechnet.

Für die Planeten sind folgende Tafeln benutzt worden:

Sonne: Tafeln von Newcomb,
 Mercur: Tafeln von Newcomb,
 Venus: Tafeln von Newcomb,
 Mars: Tafeln von Newcomb,
 Jupiter: Tafeln von Hill,
 Saturn: Tafeln von Hill,
 Uranus: Tafeln von Newcomb,
 Neptun: Tafeln von Newcomb.

Die Schiefe der Ekliptik ist nach Newcomb angenommen.

Für den Halbmesser der Sonne ist die bisherige Constante (nach Auwers) beibehalten, für den Halbmesser des Mondes ist sowohl in der Ephemeride (S. 42—81) als bei der Berechnung der Finsternisse und Stern-Bedeckungen der von J. Peters ermittelte Werth benutzt (A. N. Nr. 3297).

Die Lage des Mond-Aequators ist nach J. Franz (A. N. Nr. 3241) angenommen.

Als Vergrößerungsfactor für den Erdschatten bei Mond-Finsternissen ist nach J. Hartmann $\frac{1}{50}$ angenommen worden.

Den Hülftafeln ist eine Tafel zur Verwandlung der Decimaltheile des Tages in Stunden, Minuten, Secunden und umgekehrt hinzugefügt worden.

Zeit- und Festrechnung 1902.

Das Jahr 1902 entspricht dem
Jahr 6615 der Julianischen Periode und dem
Jahr 7410 — 7411 der Byzantinischen Aere.

Gregorianischer oder Neuer Kalender.	Julianischer oder Alter Kalender.
Goldene Zahl 3	3
Epakten XXI	III
Sonnencirkel 7	7
Römer Zinszahl . . . 15	15
Sonntags-Buchstab . . E	F
Septuagesima . . Jan. 26	Febr. 10
Aschermittwoch . . Febr. 12	Febr. 27
I. Quatember . . Febr. 19	März 6
Ostersonntag . . März 30	April 14
Himmelfahrt . . Mai 8	Mai 23
Pfingstsonntag . . Mai 18	Juni 2
II. Quatember . . Mai 21	Juni 5
III. Quatember . . Sept. 17	Sept. 18
I. Advent Nov. 30	Dec. 1
IV. Quatember . . Dec. 17	Dec. 18

Kalender der Mohamedaner.

1319

Schewwâl I	1902	Jan. 11
Dsû 'l-kade I	»	Febr. 9
Dsû 'l-hedsche I	»	März 11

1320 (Gemeinjahr)

Moharrem I	»	April 10
Safar I	»	Mai 10
Rebî-el-awwel I	»	Juni 8
Rebî-el-accher I	»	Juli 8
Dschemâdi-el-awwel I	»	Aug. 6
Dschemâdi-el-accher I	»	Sept. 5
Redscheb I	»	Oct. 4
Schabân I	»	Nov. 3
Ramadân I	»	Dec. 2
Schewwâl I	1903	Jan. 1

Kalender der Juden.

5662	Schebat	I	. . . . .	1902	Jan.	9
	Adar	I	. . . . .	»	Febr.	8
		14	Klein Purim	»		21
	Veadar	I	. . . . .	»	März	10
		11	Fasten - Esther	»		20
		14	Purim	»		23
		15	Schuschan - Purim	»		24
	Nisan	I	. . . . .	»	April	8
		15	Passah - Anfang*	»		22
		16	Zweites Fest*	»		23
		21	Siebentes Fest*	»		28
		22	Achtes Fest*	»		29
	Ijar	I	. . . . .	»	Mai	8
		18	Lag - B'omer	»		25
	Sivan	I	. . . . .	»	Juni	6
		6	Wochenfest*	»		11
		7	Zweites Fest*	»		12
	Thamuz	I	. . . . .	»	Juli	6
		17	Fasten. Tempel - Eroberung	»		22
	Ab	I	. . . . .	»	Aug.	4
		9	Fasten. Tempel - Verbrennung	»		12
	Elul	I	. . . . .	»	Sept.	3
5663	{ Ueberzähliges Gemeinjahr					
	Tischri	I	Neujahrsfest*	»	Oct.	2
		2	Zweites Fest*	»		3
		4	Fasten - Gedaljah	»		5
		10	Versöhnungsfest*	»		11
		15	Laubhüttenfest*	»		16
		16	Zweites Fest*	»		17
		21	Palmenfest	»		22
		22	Versammlung oder Laubhütten - Ende*	»		23
		23	Gesetzesfreude*	»		24
	Marcheschwan	I	. . . . .	»	Nov.	1
	Kislev	I	. . . . .	»	Dec.	1
		25	Tempelweihe	»		25
	Tebet	I	. . . . .	»		31
		10	Fasten. Belagerung Jerusalems	1903	Jan.	9

Die mit * bezeichneten Festtage werden streng gefeiert.

REDUCTIONS-ELEMENTE.

1

1902	Schiefe der Ekliptik		Praecession in Länge	Nutation in Länge	Aberration der Sonne	Parallaxe der Sonne
	mittlere	scheinbare				
	23°					
Jan. 0	27' 7.32	26' 59.77	— 0.11	+ 11.80	20.82	8.95
10	7.31	59.80	+ 1.26	12.10	20.81	8.95
20	7.30	26 59.88	2.64	12.30	20.80	8.94
30	7.28	27 0.00	4.01	12.36	20.77	8.93
Febr. 9	7.27	0.12	5.39	12.26	20.74	8.92
19	27 7.26	27 0.24	+ 6.77	+ 12.00	20.70	8.90
März 1	7.25	0.32	8.14	11.60	20.65	8.88
11	7.23	0.35	9.52	11.10	20.59	8.85
21	7.22	0.32	10.89	10.55	20.54	8.83
31	7.21	0.23	12.27	9.99	20.48	8.80
April 10	27 7.20	27 0.07	+ 13.64	+ 9.48	20.42	8.78
20	7.18	26 59.87	15.02	9.05	20.36	8.76
30	7.17	59.64	16.40	8.75	20.31	8.73
Mai 10	7.16	59.39	17.77	8.59	20.26	8.71
20	7.14	59.15	19.15	8.56	20.22	8.69
30	27 7.13	26 58.94	+ 20.53	+ 8.66	20.19	8.68
Juni 9	7.12	58.78	21.90	8.85	20.16	8.67
19	7.11	58.67	23.28	9.10	20.14	8.66
29	7.09	58.63	24.65	9.36	20.13	8.66
Juli 9	7.08	58.64	26.03	9.58	20.13	8.66
19	27 7.07	26 58.71	+ 27.40	+ 9.73	20.14	8.66
29	7.05	58.81	28.78	9.77	20.16	8.67
Aug. 8	7.04	58.93	30.16	9.68	20.19	8.68
18	7.03	59.06	31.53	9.45	20.23	8.70
28	7.02	59.16	32.91	9.09	20.27	8.72
Sept. 7	27 7.00	26 59.23	+ 34.28	+ 8.61	20.32	8.74
17	6.99	59.25	35.66	8.06	20.37	8.76
27	6.98	59.21	37.04	7.48	20.43	8.78
Oct. 7	6.96	59.10	38.41	6.92	20.49	8.81
17	6.95	58.94	39.79	6.43	20.55	8.84
27	27 6.94	26 58.73	+ 41.16	+ 6.04	20.60	8.86
Nov. 6	6.93	58.49	42.54	5.80	20.66	8.88
16	6.91	58.25	43.92	5.72	20.71	8.90
26	6.90	58.03	45.29	5.79	20.75	8.92
Dec. 6	6.89	57.85	46.67	5.99	20.78	8.93
16	27 6.88	26 57.72	+ 48.04	+ 6.28	20.80	8.94
26	6.86	57.67	49.42	6.60	20.81	8.95
36	6.85	57.69	50.80	6.91	20.82	8.95

Mittlere Schiefe der Ekliptik für 1900.0 = 23° 27' 8".26.

Mittlerer Berliner Mittag.

Monats- und Wochentag	Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.- Dauer St. - Zt.	Halbn.
Jan. 1 Mi	+ 3 ^m 23.96	18 ^h 44 ^m 3.69	^m 24.99	—23° 3' 49.2	4 53.0	141.87	16 16.00
2 Do	3 52.40	18 48 28.68	4 24.68	22 58 56.2	5 20.5	141.79	16 16.00
3 Fr	4 20.52	18 52 53.36	4 24.33	22 53 35.7	5 47.8	141.70	16 15.99
4 Sa	4 48.29	18 57 17.69	4 23.95	22 47 47.9	6 15.1	141.59	16 15.98
5 So	5 15.69	19 1 41.64	4 23.55	22 41 32.8	6 42.1	141.47	16 15.96
6 Mo	+ 5 42.68	19 6 5.19	4 23.10	—22 34 50.7	7 8.9	141.35	16 15.93
7 Di	6 9.22	19 10 28.29	4 22.63	22 27 41.8	7 35.4	141.22	16 15.90
8 Mi	6 35.29	19 14 50.92	4 22.13	22 20 6.4	8 1.9	141.09	16 15.88
9 Do	7 0.87	19 19 13.05	4 21.61	22 12 4.5	8 27.9	140.95	16 15.85
10 Fr	7 25.92	19 23 34.66	4 21.04	22 3 36.6	8 53.8	140.80	16 15.82
11 Sa	+ 7 50.40	19 27 55.70	4 20.45	—21 54 42.8	9 19.4	140.65	16 15.78
12 So	8 14.30	19 32 16.15	4 19.85	21 45 23.4	9 44.7	140.49	16 15.73
13 Mo	8 37.59	19 36 36.00	4 19.21	21 35 38.7	10 9.7	140.32	16 15.68
14 Di	9 0.24	19 40 55.21	4 18.54	21 25 29.0	10 34.4	140.15	16 15.63
15 Mi	9 22.23	19 45 13.75	4 17.85	21 14 54.6	10 58.8	139.97	16 15.58
16 Do	+ 9 43.53	19 49 31.60	4 17.16	—21 3 55.8	11 22.9	139.79	16 15.51
17 Fr	10 4.13	19 53 48.76	4 16.45	20 52 32.9	11 46.7	139.60	16 15.44
18 Sa	10 24.02	19 58 5.21	4 15.70	20 40 46.2	12 10.1	139.41	16 15.37
19 So	10 43.17	20 2 20.91	4 14.94	20 28 36.1	12 33.3	139.21	16 15.29
20 Mo	11 1.56	20 6 35.85	4 14.19	20 16 2.8	12 56.1	139.01	16 15.22
21 Di	+ 11 19.18	20 10 50.04	4 13.42	—20 3 6.7	13 18.5	138.80	16 15.13
22 Mi	11 36.04	20 15 3.46	4 12.65	19 49 48.2	13 40.7	138.59	16 15.04
23 Do	11 52.13	20 19 16.11	4 11.85	19 36 7.5	14 2.4	138.38	16 14.94
24 Fr	12 7.43	20 23 27.96	4 11.08	19 22 5.1	14 23.9	138.17	16 14.83
25 Sa	12 21.95	20 27 39.04	4 10.29	19 7 41.2	14 45.0	137.95	16 14.72
26 So	+ 12 35.69	20 31 49.33	4 9.49	—18 52 56.2	15 5.6	137.73	16 14.60
27 Mo	12 48.63	20 35 58.82	4 8.70	18 37 50.6	15 26.0	137.51	16 14.47
28 Di	13 0.77	20 40 7.52	4 7.89	18 22 24.6	15 45.9	137.28	16 14.34
29 Mi	13 12.11	20 44 15.41	4 7.11	18 6 38.7	16 5.5	137.05	16 14.20
30 Do	13 22.66	20 48 22.52	4 6.30	17 50 33.2	16 24.6	136.82	16 14.06
31 Fr	+ 13 32.41	20 52 28.82	4 5.51	—17 34 8.6	16 43.5	136.59	16 13.92
Febr. 1 Sa	13 41.36	20 56 34.33	4 4.69	17 17 25.1	17 1.8	136.36	16 13.77
2 So	13 49.49	21 0 39.02	4 3.88	17 0 23.3	17 19.7	136.13	16 13.62
3 Mo	13 56.81	21 4 42.90	4 3.09	16 43 3.6	17 37.3	135.90	16 13.46
4 Di	14 3.34	21 8 45.99	4 2.27	16 25 26.3	17 54.4	135.67	16 13.30
5 Mi	+ 14 9.07	21 12 48.26	4 1.48	—16 7 31.9	18 11.1	135.44	16 13.15
6 Do	14 13.99	21 16 49.74	4 0.66	15 49 20.8	18 27.3	135.21	16 12.99
7 Fr	14 18.10	21 20 50.40	3 59.87	15 30 53.5	18 43.1	134.98	16 12.82
8 Sa	14 21.41	21 24 50.27	3 59.06	15 12 10.4	18 58.5	134.75	16 12.64
9 So	14 23.92	21 28 49.33		14 53 11.9		134.53	16 12.46

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Aequ. 1902.0			Lg. Rad. v.	Diff.	Nut. C			
		Länge	Diff.	Breite			in o°.01	dλ de		
Jan.	1	1	18 ^h 40 ^m 39.73	280° 7' 39.77	61 9.80	-0.85	9.9926540	15	+ 4	+9
	2	2	18 44 36.28	281 8 49.57	61 10.08	-0.73	9.9926555	36	- 6	+8
	3	3	18 48 32.84	282 9 59.65	61 10.29	-0.61	9.9926591	57	-14	+5
	4	4	18 52 29.40	283 11 9.94	61 10.43	-0.48	9.9926648	77	-18	+1
	5	5	18 56 25.96	284 12 20.37	61 10.52	-0.35	9.9926725	97	-19	-3
	6	6	19 0 22.51	285 13 30.89	61 10.53	-0.23	9.9926822	116	-16	-6
	7	7	19 4 19.07	286 14 41.42	61 10.47	-0.13	9.9926938	133	- 9	-8
	8	8	19 8 15.63	287 15 51.89	61 10.32	-0.04	9.9927071	149	- 1	-9
	9	9	19 12 12.18	288 17 2.21	61 10.08	+0.03	9.9927220	166	+ 7	-7
	10	10	19 16 8.74	289 18 12.29	61 9.74	+0.08	9.9927386	182	+12	-4
	11	11	19 20 5.30	290 19 22.03	61 9.32	+0.10	9.9927568	200	+13	0
	12	12	19 24 1.85	291 20 31.35	61 8.80	+0.09	9.9927768	218	+12	+4
	13	13	19 27 58.41	292 21 40.15	61 8.18	+0.05	9.9927986	236	+ 6	+7
	14	14	19 31 54.97	293 22 48.33	61 7.47	-0.02	9.9928222	254	- 1	+9
	15	15	19 35 51.52	294 23 55.80	61 6.69	-0.11	9.9928476	272	- 9	+9
	16	16	19 39 48.08	295 25 2.49	61 5.86	-0.22	9.9928748	293	-17	+7
	17	17	19 43 44.63	296 26 8.35	61 4.99	-0.34	9.9929041	316	-22	+4
	18	18	19 47 41.18	297 27 13.34	61 4.09	-0.46	9.9929357	340	-21	0
	19	19	19 51 37.74	298 28 17.43	61 3.17	-0.58	9.9929697	364	-18	-4
	20	20	19 55 34.30	299 29 20.60	61 2.25	-0.70	9.9930061	390	-10	-7
	21	21	19 59 30.86	300 30 22.85	61 1.34	-0.80	9.9930451	416	0	-9
	22	22	20 3 27.42	301 31 24.19	61 0.47	-0.87	9.9930867	444	+10	-8
	23	23	20 7 23.97	302 32 24.66	60 59.66	-0.91	9.9931311	471	+19	-6
	24	24	20 11 20.53	303 33 24.32	60 58.88	-0.92	9.9931782	499	+25	-3
	25	25	20 15 17.09	304 34 23.20	60 58.13	-0.90	9.9932281	527	+27	+1
	26	26	20 19 13.64	305 35 21.33	60 57.40	-0.84	9.9932808	552	+24	+5
	27	27	20 23 10.20	306 36 18.73	60 56.69	-0.76	9.9933360	577	+18	+8
	28	28	20 27 6.75	307 37 15.42	60 55.98	-0.67	9.9933937	600	+ 8	+9
	29	29	20 31 3.31	308 38 11.40	60 55.25	-0.58	9.9934537	622	- 2	+8
	30	30	20 34 59.86	309 39 6.65	60 54.50	-0.43	9.9935159	644	-11	+6
31	31	20 38 56.42	310 40 1.15	60 53.72	-0.30	9.9935803	663	-17	+2	
Febr.	1	32	20 42 52.97	311 40 54.87	60 52.89	-0.18	9.9936466	680	-19	-2
	2	33	20 46 49.53	312 41 47.76	60 52.01	-0.06	9.9937146	698	-16	-5
	3	34	20 50 46.09	313 42 39.77	60 51.08	+0.05	9.9937844	714	-11	-8
	4	35	20 54 42.64	314 43 30.85	60 50.10	+0.15	9.9938558	729	- 3	-9
	5	36	20 58 39.19	315 44 20.95	60 49.04	+0.23	9.9939287	743	+ 4	-8
	6	37	21 2 35.75	316 45 9.99	60 47.92	+0.28	9.9940030	754	+10	-5
	7	38	21 6 32.30	317 45 57.91	60 46.72	+0.30	9.9940784	764	+14	-2
	8	39	21 10 28.86	318 46 44.63	60 45.43	+0.29	9.9941548	775	+13	+2
	9	40	21 14 25.41	319 47 30.06		+0.26	9.9942323		+ 8	+6

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.- Dauer St.-Zt.	Halbm.
Febr.	8 Sa	+14 ^{m s} 21.41	21 ^{h m s} 24 50.27	^{m s} 3 59.06	—15 ° 12' 10.4"	18' 58.5"	134.75	16' 12.64
	9 So	14 23.92	21 28 49.33	3 58.28	14 53 11.9	19 13.5	134.53	16 12.46
	10 Mo	14 25.64	21 32 47.61	3 57.49	14 33 58.4	19 28.1	134.31	16 12.28
	11 Di	14 26.58	21 36 45.10	3 56.71	14 14 30.3	19 42.2	134.09	16 12.10
	12 Mi	14 26.74	21 40 41.81	3 55.93	13 54 48.1	19 55.9	133.87	16 11.92
	13 Do	+14 26.11	21 44 37.74	3 55.14	—13 34 52.2	20 9.1	133.65	16 11.74
	14 Fr	14 24.70	21 48 32.88	3 54.38	13 14 43.1	20 21.9	133.44	16 11.55
	15 Sa	14 22.52	21 52 27.26	3 53.62	12 54 21.2	20 34.2	133.23	16 11.36
	16 So	14 19.59	21 56 20.88	3 52.88	12 33 47.0	20 46.3	133.02	16 11.16
	17 Mo	14 15.92	22 0 13.76	3 52.16	12 13 0.7	20 57.9	132.82	16 10.96
	18 Di	+14 11.52	22 4 5.92	3 51.43	—11 52 2.8	21 9.1	132.62	16 10.76
	19 Mi	14 6.40	22 7 57.35	3 50.74	11 30 53.7	21 19.8	132.42	16 10.55
	20 Do	14 0.59	22 11 48.09	3 50.07	11 9 33.9	21 30.3	132.23	16 10.34
	21 Fr	13 54.10	22 15 38.16	3 49.40	10 48 3.6	21 40.3	132.04	16 10.12
	22 Sa	13 46.95	22 19 27.56	3 48.76	10 26 23.3	21 49.9	131.85	16 9.90
	23 So	+13 39.16	22 23 16.32	3 48.15	—10 4 33.4	21 59.1	131.67	16 9.68
	24 Mo	13 30.75	22 27 4.47	3 47.54	9 42 34.3	22 8.0	131.49	16 9.46
	25 Di	13 21.74	22 30 52.01	3 46.96	9 20 26.3	22 16.5	131.31	16 9.23
	26 Mi	13 12.15	22 34 38.97	3 46.41	8 58 9.8	22 24.5	131.14	16 8.99
27 Do	13 2.00	22 38 25.38	3 45.85	8 35 45.3	22 32.2	130.97	16 8.75	
28 Fr	+12 51.30	22 42 11.23	3 45.33	—8 13 13.1	22 39.5	130.81	16 8.51	
März	1 Sa	12 40.09	22 45 56.56	3 44.84	7 50 33.6	22 46.3	130.66	16 8.26
	2 So	12 28.37	22 49 41.40	3 44.34	7 27 47.3	22 52.9	130.51	16 8.02
	3 Mo	12 16.16	22 53 25.74	3 43.87	7 4 54.4	22 58.9	130.36	16 7.77
	4 Di	12 3.47	22 57 9.61	3 43.42	6 41 55.5	23 4.6	130.22	16 7.52
	5 Mi	+11 50.34	23 0 53.03	3 42.99	—6 18 50.9	23 9.9	130.09	16 7.26
	6 Do	11 36.78	23 4 36.02	3 42.58	5 55 41.0	23 14.7	129.96	16 7.01
	7 Fr	11 22.81	23 8 18.60	3 42.17	5 32 26.3	23 19.2	129.84	16 6.75
	8 Sa	11 8.43	23 12 0.77	3 41.79	5 9 7.1	23 23.4	129.72	16 6.50
	9 So	10 53.66	23 15 42.56	3 41.43	4 45 43.7	23 27.1	129.61	16 6.24
	10 Mo	+10 38.53	23 19 23.99	3 41.07	—4 22 16.6	23 30.3	129.51	16 5.98
	11 Di	10 23.06	23 23 5.06	3 40.75	3 58 46.3	23 33.1	129.41	16 5.72
12 Mi	10 7.26	23 26 45.81	3 40.43	3 35 13.2	23 35.7	129.32	16 5.46	
13 Do	9 51.14	23 30 26.24	3 40.12	3 11 37.5	23 37.7	129.23	16 5.20	
14 Fr	9 34.70	23 34 6.36	3 39.83	2 47 59.8	23 39.4	129.15	16 4.94	
15 Sa	+9 17.98	23 37 46.19	3 39.56	—2 24 20.4	23 40.7	129.07	16 4.68	
16 So	9 0.99	23 41 25.75	3 39.32	2 0 39.7	23 41.7	129.00	16 4.42	
17 Mo	8 43.76	23 45 5.07	3 39.09	1 36 58.0	23 42.3	128.94	16 4.16	
18 Di	8 26.30	23 48 44.16	3 38.88	1 13 15.7	23 42.4	128.88	16 3.90	
19 Mi	8 8.63	23 52 23.04		0 49 33.3		128.83	16 3.63	

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Aequ. 1902.0			Lg. Rad. v.	Diff.	Nut. (C in o".01	
		Länge	Diff.	Breite			d λ	d e
Febr. 8	39 21 ^h 10 ^m 28.86	318° 46' 44.63	60 45.43	+0.29	9.9941548	775	+13	+2
9	40 21 14 25.41	319 47 30.06	60 44.04	+0.26	9.9942323	789	+ 8	+6
10	41 21 18 21.97	320 48 14.10	60 42.56	+0.19	9.9943112	804	+ 2	+8
11	42 21 22 18.52	321 48 56.66	60 41.00	+0.10	9.9943916	818	- 7	+9
12	43 21 26 15.07	322 49 37.66	60 39.35	-0.01	9.9944734	829	-15	+8
13	44 21 30 11.63	323 50 17.01	60 37.63	-0.13	9.9945563	839	-21	+5
14	45 21 34 8.18	324 50 54.64	60 35.87	-0.26	9.9946402	852	-22	+1
15	46 21 38 4.73	325 51 30.51	60 34.06	-0.39	9.9947254	868	-20	-3
16	47 21 42 1.29	326 52 4.57	60 32.23	-0.51	9.9948122	886	-13	-6
17	48 21 45 57.84	327 52 36.80	60 30.39	-0.62	9.9949008	903	- 4	-8
18	49 21 49 54.40	328 53 7.19	60 28.58	-0.70	9.9949911	921	+ 7	-9
19	50 21 53 50.95	329 53 35.77	60 26.80	-0.75	9.9950832	942	+17	-7
20	51 21 57 47.50	330 54 2.57	60 25.05	-0.77	9.9951774	963	+24	-4
21	52 22 1 44.06	331 54 27.62	60 23.33	-0.76	9.9952737	983	+26	0
22	53 22 5 40.61	332 54 50.95	60 21.67	-0.71	9.9953720	1002	+26	+4
23	54 22 9 37.16	333 55 12.62	60 20.05	-0.64	9.9954722	1021	+20	+7
24	55 22 13 33.71	334 55 32.67	60 18.47	-0.55	9.9955743	1039	+11	+9
25	56 22 17 30.27	335 55 51.14	60 16.91	-0.44	9.9956782	1055	+ 2	+9
26	57 22 21 26.82	336 56 8.05	60 15.38	-0.31	9.9957837	1071	- 8	+7
27	58 22 25 23.37	337 56 23.43	60 13.85	-0.18	9.9958908	1087	-16	+4
28	59 22 29 19.93	338 56 37.28	60 12.31	-0.06	9.9959995	1101	-18	0
März 1	60 22 33 16.48	339 56 49.59	60 10.77	+0.06	9.9961096	1113	-18	-4
2	61 22 37 13.03	340 57 0.36	60 9.21	+0.17	9.9962209	1123	-13	-7
3	62 22 41 9.58	341 57 9.57	60 7.64	+0.27	9.9963332	1133	- 6	-9
4	63 22 45 6.14	342 57 17.21	60 6.05	+0.34	9.9964465	1141	+ 2	-8
5	64 22 49 2.69	343 57 23.26	60 4.42	+0.39	9.9965606	1149	+ 9	-6
6	65 22 52 59.24	344 57 27.68	60 2.75	+0.41	9.9966755	1154	+13	-3
7	66 22 56 55.79	345 57 30.43	60 1.02	+0.41	9.9967909	1157	+13	+1
8	67 23 0 52.34	346 57 31.45	59 59.22	+0.38	9.9969066	1159	+10	+5
9	68 23 4 48.90	347 57 30.67	59 57.35	+0.32	9.9970225	1161	+ 4	+8
10	69 23 8 45.45	348 57 28.02	59 55.39	+0.24	9.9971386	1164	- 4	+9
11	70 23 12 42.00	349 57 23.41	59 53.36	+0.13	9.9972550	1166	-13	+8
12	71 23 16 38.55	350 57 16.77	59 51.24	0.00	9.9973716	1168	-19	+6
13	72 23 20 35.10	351 57 8.01	59 49.04	-0.13	9.9974884	1169	-23	+2
14	73 23 24 31.66	352 56 57.05	59 46.78	-0.27	9.9976053	1171	-22	-2
15	74 23 28 28.21	353 56 43.83	59 44.50	-0.40	9.9977224	1175	-16	-5
16	75 23 32 24.76	354 56 28.33	59 42.20	-0.51	9.9978399	1181	- 8	-8
17	76 23 36 21.31	355 56 10.53	59 39.89	-0.59	9.9979580	1187	+ 3	-9
18	77 23 40 17.86	356 55 50.42	59 37.59	-0.65	9.9980767	1194	+13	-8
19	78 23 44 14.42	357 55 28.01		-0.69	9.9981961		+21	-5

Mittlerer Berliner Mittag.

Monats- und Wochentag	Zeitgleichung M. Zt. — W Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.- Dauer- St.-Zt.	Halbm.
März 18	Di +8 ^m 26.30	23 ^h 48 ^m 44.16	3 ^m 38.88	— I 13 15.7	23 42.4	128.88	16 3.90
19	Mi 8 8.63	23 52 23.04	3 38.70	0 49 33.3	23 42.4	128.83	16 3.63
20	Do 7 50.77	23 56 1.74	3 38.54	0 25 50.9	23 41.9	128.78	16 3.36
21	Fr 7 32.76	23 59 40.28	3 38.41	— 0 2 9.0	23 41.1	128.74	16 3.09
22	Sa 7 14.62	0 3 18.69	3 38.29	+ 0 21 32.1	23 39.9	128.71	16 2.82
23	So +6 56.36	0 6 56.98	3 38.20	+ 0 45 12.0	23 38.4	128.68	16 2.54
24	Mo 6 38.01	0 10 35.18	3 38.14	I 8 50.4	23 36.7	128.66	16 2.26
25	Di 6 19.59	0 14 13.32	3 38.10	I 32 27.1	23 34.4	128.64	16 1.98
26	Mi 6 1.14	0 17 51.42	3 38.09	I 56 1.5	23 32.0	128.63	16 1.71
27	Do 5 42.68	0 21 29.51	3 38.09	2 19 33.5	23 29.1	128.62	16 1.44
28	Fr +5 24.22	0 25 7.60	3 38.11	+ 2 43 2.6	23 25.8	128.62	16 1.16
29	Sa 5 5.78	0 28 45.71	3 38.17	3 6 28.4	23 22.4	128.63	16 0.88
30	So 4 47.39	0 32 23.88	3 38.24	3 29 50.8	23 18.4	128.64	16 0.60
31	Mo 4 29.08	0 36 2.12	3 38.33	3 53 9.2	23 14.3	128.66	16 0.31
April 1	Di 4 10.86	0 39 40.45	3 38.44	4 16 23.5	23 9.6	128.68	16 0.02
2	Mi +3 52.75	0 43 18.89	3 38.58	+ 4 39 33.1	23 4.7	128.71	15 59.74
3	Do 3 34.78	0 46 57.47	3 38.73	5 2 37.8	22 59.3	128.75	15 59.46
4	Fr 3 16.95	0 50 36.20	3 38.89	5 25 37.1	22 53.8	128.79	15 59.18
5	Sa 2 59.29	0 54 15.09	3 39.06	5 48 30.9	22 47.7	128.84	15 58.90
6	So 2 41.81	0 57 54.15	3 39.27	6 11 18.6	22 41.4	128.89	15 58.62
7	Mo +2 24.52	I 1 33.42	3 39.48	+ 6 34 0.0	22 34.7	128.95	15 58.34
8	Di 2 7.44	I 5 12.90	3 39.71	6 56 34.7	22 27.5	129.02	15 58.07
9	Mi I 50.59	I 8 52.61	3 39.94	7 19 2.2	22 20.1	129.09	15 57.80
10	Do I 33.99	I 12 32.55	3 40.20	7 41 22.3	22 12.3	129.16	15 57.53
11	Fr I 17.64	I 16 12.75	3 40.45	8 3 34.6	22 4.1	129.24	15 57.26
12	Sa +I 1.54	I 19 53.20	3 40.74	+ 8 25 38.7	21 55.6	129.33	15 57.00
13	So 0 45.72	I 23 33.94	3 41.03	8 47 34.3	21 46.7	129.42	15 56.73
14	Mo 0 30.20	I 27 14.97	3 41.34	9 9 21.0	21 37.6	129.51	15 56.46
15	Di 0 14.99	I 30 56.31	3 41.66	9 30 58.6	21 28.0	129.61	15 56.20
16	Mi +0 0.09	I 34 37.97	3 41.99	9 52 26.6	21 18.1	129.71	15 55.95
17	Do —0 14.47	I 38 19.96	3 42.35	+10 13 44.7	21 8.0	129.82	15 55.69
18	Fr 0 28.67	I 42 2.31	3 42.72	10 34 52.7	20 57.5	129.93	15 55.43
19	Sa 0 42.51	I 45 45.03	3 43.10	10 55 50.2	20 46.6	130.05	15 55.17
20	So 0 55.96	I 49 28.13	3 43.52	11 16 36.8	20 35.5	130.17	15 54.91
21	Mo I 8.99	I 53 11.65	3 43.94	11 37 12.3	20 24.1	130.29	15 54.66
22	Di —I 21.60	I 56 55.59	3 44.38	+11 57 36.4	20 12.3	130.42	15 54.40
23	Mi I 33.78	2 0 39.97	3 44.83	12 17 48.7	20 0.2	130.55	15 54.15
24	Do I 45.50	2 4 24.80	3 45.30	12 37 48.9	19 47.8	130.68	15 53.90
25	Fr I 56.75	2 8 10.10	3 45.79	12 57 36.7	19 35.1	130.82	15 53.64
26	Sa 2 7.52	2 11 55.89		13 17 11.8		130.96	15 53.38

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit			Mittleres Aequ. 1902.0			Lg. Rad. v.	Diff.	Nut. (
	h	m	s	Länge	Diff.	Breite			in o".01	dλ	dε
März 18	77	23 40	17.86	356° 55'	50.42	59 37.59	-0.65	9.9980767	1194	+13	-8
19	78	23 44	14.42	357 55	28.01	59 35.33	-0.69	9.9981961	1203	+21	-5
20	79	23 48	10.97	358 55	3.34	59 33.11	-0.70	9.9983164	1211	+26	-2
21	80	23 52	7.52	359 54	36.45	59 30.92	-0.67	9.9984375	1220	+27	+2
22	81	23 56	4.07	0 54	7.37	59 28.77	-0.61	9.9985595	1229	+22	+6
23	82	0 0	0.62	1 53	36.14	59 26.69	-0.52	9.9986824	1239	+15	+8
24	83	0 3	57.18	2 53	2.83	59 24.68	-0.41	9.9988063	1248	+ 5	+9
25	84	0 7	53.73	3 52	27.51	59 22.71	-0.29	9.9989311	1256	- 5	+8
26	85	0 11	50.28	4 51	50.22	59 20.79	-0.17	9.9990567	1262	-13	+5
27	86	0 15	46.83	5 51	11.01	59 18.91	-0.04	9.9991829	1267	-17	+1
28	87	0 19	43.38	6 50	29.92	59 17.06	+0.08	9.9993096	1271	-18	-3
29	88	0 23	39.93	7 49	46.98	59 15.23	+0.19	9.9994367	1275	-14	-6
30	89	0 27	36.49	8 49	2.21	59 13.42	+0.29	9.9995642	1278	- 8	-8
31	90	0 31	33.04	9 48	15.63	59 11.63	+0.37	9.9996920	1280	0	-9
April 1	91	0 35	29.59	10 47	27.26	59 9.86	+0.43	9.9998200	1280	+ 8	-7
2	92	0 39	26.14	11 46	37.12	59 8.08	+0.46	9.9999480	1279	+12	-4
3	93	0 43	22.69	12 45	45.20	59 6.29	+0.46	0.0000759	1275	+14	0
4	94	0 47	19.25	13 44	51.49	59 4.48	+0.43	0.0002034	1268	+12	+4
5	95	0 51	15.80	14 43	55.97	59 2.65	+0.37	0.0003302	1261	+ 5	+7
6	96	0 55	12.35	15 42	58.62	59 0.77	+0.28	0.0004563	1254	- 2	+9
7	97	0 59	8.90	16 41	59.39	58 58.82	+0.17	0.0005817	1247	-11	+9
8	98	1 3	5.46	17 40	58.21	58 56.80	+0.04	0.0007064	1238	-18	+7
9	99	1 7	2.01	18 39	55.01	58 54.70	-0.10	0.0008302	1228	-23	+4
10	100	1 10	58.56	19 38	49.71	58 52.54	-0.24	0.0009530	1217	-22	0
11	101	1 14	55.11	20 37	42.25	58 50.35	-0.38	0.0010747	1208	-19	-4
12	102	1 18	51.66	21 36	32.60	58 48.11	-0.50	0.0011955	1200	-11	-7
13	103	1 22	48.22	22 35	20.71	58 45.82	-0.60	0.0013155	1193	- 1	-9
14	104	1 26	44.77	23 34	6.53	58 43.52	-0.67	0.0014348	1187	+10	-8
15	105	1 30	41.32	24 32	50.05	58 41.24	-0.71	0.0015535	1183	+19	-6
16	106	1 34	37.88	25 31	31.29	58 39.01	-0.73	0.0016718	1178	+25	-3
17	107	1 38	34.43	26 30	10.30	58 36.81	-0.71	0.0017896	1175	+26	+1
18	108	1 42	30.98	27 28	47.11	58 34.65	-0.66	0.0019071	1173	+24	+5
19	109	1 46	27.54	28 27	21.76	58 32.54	-0.58	0.0020244	1171	+17	+8
20	110	1 50	24.09	29 25	54.30	58 30.50	-0.48	0.0021415	1170	+ 7	+9
21	111	1 54	20.64	30 24	24.80	58 28.54	-0.36	0.0022585	1167	- 2	+8
22	112	1 58	17.19	31 22	53.34	58 26.65	-0.23	0.0023752	1165	-10	+6
23	113	2 2	13.75	32 21	19.99	58 24.81	-0.09	0.0024917	1162	-17	+2
24	114	2 6	10.30	33 19	44.80	58 23.03	+0.04	0.0026079	1158	-18	-2
25	115	2 10	6.85	34 18	7.83	58 21.30	+0.16	0.0027237	1155	-15	-5
26	116	2 14	3.41	35 16	29.13		+0.26	0.0028392		-10	-8

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg- Dauer St. - Zt.	Halbm.	
April	25	Fr	—1 ^m 56.75	2 ^h 8 ^m 10.10	^m 3 45.79	+12° 57' 36.7"	19 35.1	130.82	15 53.64
	26	Sa	2 7.52	2 11 55.89	3 46.28	13 17 11.8	19 22.1	130.96	15 53.38
	27	So	2 17.79	2 15 42.17	3 46.80	13 36 33.9	19 8.6	131.10	15 53.13
	28	Mo	2 27.55	2 19 28.97	3 47.32	13 55 42.5	18 55.0	131.24	15 52.88
	29	Di	2 36.79	2 23 16.29	3 47.84	14 14 37.5	18 41.0	131.39	15 52.63
Mai	30	Mi	—2 45.49	2 27 4.13	3 48.40	+14 33 18.5	18 26.7	131.54	15 52.38
	1	Do	2 53.65	2 30 52.53	3 48.95	14 51 45.2	18 12.1	131.69	15 52.13
	2	Fr	3 1.26	2 34 41.48	3 49.50	15 9 57.3	17 57.1	131.85	15 51.89
	3	Sa	3 8.31	2 38 30.98	3 50.07	15 27 54.4	17 41.9	132.00	15 51.65
	4	So	3 14.79	2 42 21.05	3 50.64	15 45 36.3	17 26.3	132.16	15 51.41
	5	Mo	—3 20.71	2 46 11.69	3 51.20	+16 3 2.6	17 10.3	132.32	15 51.18
	6	Di	3 26.06	2 50 2.89	3 51.78	16 20 12.9	16 54.1	132.48	15 50.95
	7	Mi	3 30.83	2 53 54.67	3 52.35	16 37 7.0	16 37.6	132.64	15 50.72
	8	Do	3 35.04	2 57 47.02	3 52.91	16 53 44.6	16 20.6	132.81	15 50.50
	9	Fr	3 38.68	3 1 39.93	3 53.48	17 10 5.2	16 3.5	132.98	15 50.29
	10	Sa	—3 41.76	3 5 33.41	3 54.03	+17 26 8.7	15 46.0	133.14	15 50.08
	11	So	3 44.28	3 9 27.44	3 54.60	17 41 54.7	15 28.2	133.30	15 49.87
	12	Mo	3 46.24	3 13 22.04	3 55.16	17 57 22.9	15 10.1	133.47	15 49.66
	13	Di	3 47.64	3 17 17.20	3 55.70	18 12 33.0	14 51.7	133.64	15 49.45
	14	Mi	3 48.49	3 21 12.90	3 56.26	18 27 24.7	14 33.1	133.80	15 49.25
	15	Do	—3 48.78	3 25 9.16	3 56.81	+18 41 57.8	14 14.1	133.97	15 49.06
	16	Fr	3 48.53	3 29 5.97	3 57.35	18 56 11.9	13 54.8	134.13	15 48.87
	17	Sa	3 47.73	3 33 3.32	3 57.91	19 10 6.7	13 35.4	134.29	15 48.68
	18	So	3 46.38	3 37 1.23	3 58.46	19 23 42.1	13 15.7	134.45	15 48.49
	19	Mo	3 44.48	3 40 59.69	3 58.99	19 36 57.8	12 55.7	134.61	15 48.30
20	Di	—3 42.04	3 44 58.68	3 59.54	+19 49 53.5	12 35.4	134.76	15 48.12	
21	Mi	3 39.06	3 48 58.22	4 0.08	20 2 28.9	12 15.0	134.91	15 47.94	
22	Do	3 35.54	3 52 58.30	4 0.61	20 14 43.9	11 54.2	135.06	15 47.76	
23	Fr	3 31.48	3 56 58.91	4 1.14	20 26 38.1	11 33.2	135.21	15 47.59	
24	Sa	3 26.89	4 1 0.05	4 1.66	20 38 11.3	11 12.0	135.36	15 47.42	
25	So	—3 21.79	4 5 1.71	4 2.17	+20 49 23.3	10 50.6	135.51	15 47.26	
26	Mo	3 16.17	4 9 3.88	4 2.69	21 0 13.9	10 28.9	135.65	15 47.09	
27	Di	3 10.04	4 13 6.57	4 3.19	21 10 42.8	10 7.0	135.79	15 46.92	
28	Mi	3 3.41	4 17 9.76	4 3.66	21 20 49.8	9 44.9	135.92	15 46.76	
29	Do	2 56.30	4 21 13.42	4 4.15	21 30 34.7	9 22.7	136.05	15 46.60	
30	Fr	—2 48.71	4 25 17.57	4 4.62	+21 39 57.4	9 0.1	136.17	15 46.44	
31	Sa	2 40.65	4 29 22.19	4 5.06	21 48 57.5	8 37.4	136.29	15 46.29	
Juni	1	So	2 32.15	4 33 27.25	4 5.49	21 57 34.9	8 14.6	136.41	15 46.15
	2	Mo	2 23.21	4 37 32.74	4 5.92	22 5 49.5	7 51.5	136.52	15 46.00
	3	Di	2 13.85	4 41 38.66		22 13 41.0		136.63	15 45.86

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Aequ. 1902.0			Lg. Rad. v.	Diff.	Nut. (
		Länge	Diff.	Breite			in o".01 dλ	dε			
April	25	115	2 ^h 10 ^m 6.85	34° 18' 7.83	58 21.30	+0.16	0.0027237	1155	-15	-5	
	26	116	2 14 3.41	35 16 29.13	58 19.63	+0.26	0.0028392	1150	-10	-8	
	27	117	2 17 59.96	36 14 48.76	58 18.01	+0.34	0.0029542	1145	-2	-9	
	28	118	2 21 56.52	37 13 6.77	58 16.44	+0.40	0.0030687	1138	+5	-8	
	29	119	2 25 53.07	38 11 23.21	58 14.92	+0.43	0.0031825	1129	+11	-5	
	30	120	2 29 49.62	39 9 38.13	58 13.43	+0.44	0.0032954	1120	+14	-2	
	Mai	1	121	2 33 46.18	40 7 51.56	58 11.96	+0.42	0.0034074	1110	+14	+2
		2	122	2 37 42.73	41 6 3.52	58 10.51	+0.37	0.0035184	1096	+8	+6
		3	123	2 41 39.29	42 4 14.03	58 9.06	+0.29	0.0036280	1081	+1	+8
		4	124	2 45 35.84	43 2 23.09	58 7.61	+0.19	0.0037361	1066	-8	+9
5		125	2 49 32.39	44 0 30.70	58 6.11	+0.08	0.0038427	1049	-16	+8	
6		126	2 53 28.95	44 58 36.81	58 4.56	-0.05	0.0039476	1031	-21	+5	
7		127	2 57 25.50	45 56 41.37	58 2.97	-0.19	0.0040507	1012	-23	+1	
8		128	3 1 22.06	46 54 44.34	58 1.31	-0.32	0.0041519	993	-21	-3	
9		129	3 5 18.61	47 52 45.65	57 59.59	-0.44	0.0042512	974	-14	-6	
10		130	3 9 15.17	48 50 45.24	57 57.82	-0.55	0.0043486	956	-5	-8	
11	131	3 13 11.72	49 48 43.06	57 56.02	-0.63	0.0044442	938	+6	-9		
12	132	3 17 8.28	50 46 39.08	57 54.21	-0.68	0.0045380	920	+16	-7		
13	133	3 21 4.83	51 44 33.29	57 52.42	-0.70	0.0046300	905	+23	-4		
14	134	3 25 1.39	52 42 25.71	57 50.65	-0.69	0.0047205	892	+26	0		
15	135	3 28 57.94	53 40 16.36	57 48.91	-0.65	0.0048097	880	+26	+4		
16	136	3 32 54.50	54 38 5.27	57 47.21	-0.57	0.0048977	867	+20	+7		
17	137	3 36 51.05	55 35 52.48	57 45.57	-0.47	0.0049844	854	+11	+9		
18	138	3 40 47.61	56 33 38.05	57 43.99	-0.35	0.0050698	844	+1	+9		
19	139	3 44 44.17	57 31 22.04	57 42.48	-0.23	0.0051542	834	-8	+7		
20	140	3 48 40.72	58 29 4.52	57 41.05	-0.11	0.0052376	824	-15	+4		
21	141	3 52 37.28	59 26 45.57	57 39.70	+0.02	0.0053200	812	-17	0		
22	142	3 56 33.83	60 24 25.27	57 38.42	+0.15	0.0054012	802	-17	-4		
23	143	4 0 30.39	61 22 3.69	57 37.21	+0.26	0.0054814	792	-12	-7		
24	144	4 4 26.94	62 19 40.90	57 36.06	+0.34	0.0055606	781	-5	-9		
25	145	4 8 23.50	63 17 16.96	57 34.98	+0.41	0.0056387	767	+3	-8		
26	146	4 12 20.06	64 14 51.94	57 33.97	+0.46	0.0057154	755	+10	-6		
27	147	4 16 16.61	65 12 25.91	57 33.04	+0.48	0.0057909	742	+14	-3		
28	148	4 20 13.17	66 9 58.95	57 32.17	+0.47	0.0058651	728	+14	+1		
29	149	4 24 9.72	67 7 31.12	57 31.35	+0.44	0.0059379	711	+10	+5		
30	150	4 28 6.28	68 5 2.47	57 30.56	+0.38	0.0060090	694	+3	+8		
31	151	4 32 2.84	69 2 33.03	57 29.81	+0.28	0.0060784	676	-6	+9		
Juni	1	152	4 35 59.40	70 0 2.84	57 29.08	+0.16	0.0061460	655	-14	+8	
	2	153	4 39 55.95	70 57 31.92	57 28.35	+0.04	0.0062115	632	-20	+6	
	3	154	4 43 52.51	71 55 0.27		-0.09	0.0062747		-24	+2	

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.- Dauer St.-Zt.	Halbm.
Juni	2 Mo	—2 23.21	4 37 32.74	^m ^a 4 5.92	+22 5 49.5	['] ["] 7 51.5	136.52	15 46.00
	3 Di	2 13.85	4 41 38.66	4 6.31	22 13 41.0	7 28.2	136.63	15 45.86
	4 Mi	2 4.09	4 45 44.97	4 6.67	22 21 9.2	7 4.9	136.73	15 45.73
	5 Do	1 53.97	4 49 51.64	4 7.02	22 28 14.1	6 41.3	136.83	15 45.60
	6 Fr	1 43.51	4 53 58.66	4 7.35	22 34 55.4	6 17.5	136.92	15 45.48
	7 Sa	—1 32.72	4 58 6.01	4 7.65	+22 41 12.9	5 53.8	137.01	15 45.37
	8 So	1 21.62	5 2 13.66	4 7.93	22 47 6.7	5 29.7	137.09	15 45.26
	9 Mo	1 10.25	5 6 21.59	4 8.18	22 52 36.4	5 5.7	137.17	15 45.15
	10 Di	0 58.63	5 10 29.77	4 8.39	22 57 42.1	4 41.4	137.24	15 45.05
	11 Mi	0 46.79	5 14 38.16	4 8.60	23 2 23.5	4 17.1	137.30	15 44.95
	12 Do	—0 34.75	5 18 46.76	4 8.78	+23 6 40.6	3 52.8	137.36	15 44.86
	13 Fr	0 22.53	5 22 55.54	4 8.94	23 10 33.4	3 28.2	137.42	15 44.78
	14 Sa	—0 10.15	5 27 4.48	4 9.08	23 14 1.6	3 3.7	137.47	15 44.70
	15 So	+0 2.37	5 31 13.56	4 9.20	23 17 5.3	2 39.1	137.51	15 44.62
	16 Mo	0 15.02	5 35 22.76	4 9.30	23 19 44.4	2 14.3	137.54	15 44.54
	17 Di	+0 27.76	5 39 32.06	4 9.38	+23 21 58.7	1 49.7	137.57	15 44.47
	18 Mi	0 40.58	5 43 41.44	4 9.43	23 23 48.4	1 24.9	137.59	15 44.40
	19 Do	0 53.46	5 47 50.87	4 9.47	23 25 13.3	1 0.2	137.61	15 44.34
	20 Fr	1 6.37	5 52 0.34	4 9.48	23 26 13.5	0 35.3	137.62	15 44.28
	21 Sa	1 19.29	5 56 9.82	4 9.48	23 26 48.8	0 10.5	137.62	15 44.22
	22 So	+1 32.21	6 0 19.30	4 9.46	+23 26 59.3	0 14.3	137.61	15 44.16
23 Mo	1 45.12	6 4 28.76	4 9.42	23 26 45.0	0 39.1	137.60	15 44.11	
24 Di	1 57.98	6 8 38.18	4 9.35	23 26 5.9	1 3.9	137.58	15 44.06	
25 Mi	2 10.77	6 12 47.53	4 9.26	23 25 2.0	1 28.6	137.56	15 44.02	
26 Do	2 23.47	6 16 56.79	4 9.15	23 23 33.4	1 53.3	137.53	15 43.98	
27 Fr	+2 36.06	6 21 5.94	4 9.02	+23 21 40.1	2 18.0	137.49	15 43.94	
28 Sa	2 48.53	6 25 14.96	4 8.87	23 19 22.1	2 42.6	137.45	15 43.90	
29 So	3 0.85	6 29 23.83	4 8.70	23 16 39.5	3 7.1	137.40	15 43.87	
30 Mo	3 12.99	6 33 32.53	4 8.51	23 13 32.4	3 31.5	137.34	15 43.84	
Juli	1 Di	3 24.94	6 37 41.04	4 8.30	23 10 0.9	3 55.9	137.27	15 43.82
	2 Mi	+3 36.68	6 41 49.34	4 8.06	+23 6 5.0	4 20.2	137.20	15 43.81
	3 Do	3 48.19	6 45 57.40	4 7.78	23 1 44.8	4 44.2	137.13	15 43.80
	4 Fr	3 59.42	6 50 5.18	4 7.49	22 57 0.6	5 8.3	137.05	15 43.80
	5 Sa	4 10.35	6 54 12.67	4 7.17	22 51 52.3	5 32.2	136.96	15 43.80
	6 So	4 20.96	6 58 19.84	4 6.82	22 46 20.1	5 55.8	136.87	15 43.81
	7 Mo	+4 31.23	7 2 26.66	4 6.46	+22 40 24.3	6 19.5	136.77	15 43.82
	8 Di	4 41.13	7 6 33.12	4 6.06	22 34 4.8	6 42.8	136.67	15 43.84
	9 Mi	4 50.63	7 10 39.18	4 5.65	22 27 22.0	7 6.1	136.56	15 43.87
	10 Do	4 59.72	7 14 44.83	4 5.22	22 20 15.9	7 29.1	136.45	15 43.90
	11 Fr	5 8.39	7 18 50.05		22 12 46.8		136.33	15 43.94

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Aequ. 1902.0			Lg. Rad. v.	Diff.	Nut. ζ			
		Länge	Diff.	Breite			in o' .or $d\lambda$	$d\varepsilon$		
Juni	2	153	4 ^h 39 ^m 55 ^s .95	70° 57' 31".92	57 28.35	+0.04	0.0062115	632	-20	+6
	3	154	4 43 52.51	71 55 0.27	57 27.60	-0.09	0.0062747	608	-24	+2
	4	155	4 47 49.06	72 52 27.87	57 26.81	-0.22	0.0063355	584	-23	-2
	5	156	4 51 45.62	73 49 54.68	57 25.96	-0.35	0.0063939	561	-17	-5
	6	157	4 55 42.18	74 47 20.64	57 25.07	-0.46	0.0064500	536	-9	-8
	7	158	4 59 38.73	75 44 45.71	57 24.13	-0.55	0.0065036	511	+2	-9
	8	159	5 3 35.29	76 42 9.84	57 23.15	-0.60	0.0065547	485	+12	-8
	9	160	5 7 31.84	77 39 32.99	57 22.15	-0.62	0.0066032	460	+21	-5
	10	161	5 11 28.40	78 36 55.14	57 21.13	-0.60	0.0066492	438	+26	-2
	11	162	5 15 24.96	79 34 16.27	57 20.12	-0.56	0.0066930	417	+26	+2
	12	163	5 19 21.52	80 31 36.39	57 19.14	-0.50	0.0067347	398	+21	+6
	13	164	5 23 18.07	81 28 55.53	57 18.19	-0.41	0.0067745	380	+14	+8
	14	165	5 27 14.63	82 26 13.72	57 17.30	-0.30	0.0068125	362	+4	+9
	15	166	5 31 11.19	83 23 31.02	57 16.48	-0.18	0.0068487	344	-5	+8
	16	167	5 35 7.74	84 20 47.50	57 15.72	-0.05	0.0068831	328	-12	+5
	17	168	5 39 4.30	85 18 3.22	57 15.02	+0.07	0.0069159	312	-16	+1
	18	169	5 43 0.86	86 15 18.24	57 14.39	+0.19	0.0069471	297	-17	-3
	19	170	5 46 57.41	87 12 32.63	57 13.85	+0.30	0.0069768	283	-13	-6
	20	171	5 50 53.97	88 9 46.48	57 13.38	+0.39	0.0070051	269	-7	-8
	21	172	5 54 50.53	89 6 59.86	57 12.99	+0.46	0.0070320	254	+1	-9
	22	173	5 58 47.09	90 4 12.85	57 12.68	+0.50	0.0070574	239	+8	-7
23	174	6 2 43.64	91 1 25.53	57 12.46	+0.52	0.0070813	223	+13	-4	
24	175	6 6 40.20	91 58 37.99	57 12.32	+0.52	0.0071036	208	+14	0	
25	176	6 10 36.76	92 55 50.31	57 12.24	+0.49	0.0071244	191	+13	+4	
26	177	6 14 33.31	93 53 2.55	57 12.23	+0.44	0.0071435	173	+6	+7	
27	178	6 18 29.87	94 50 14.78	57 12.29	+0.35	0.0071608	154	-3	+9	
28	179	6 22 26.43	95 47 27.07	57 12.40	+0.24	0.0071762	134	-9	+9	
29	180	6 26 22.98	96 44 39.47	57 12.54	+0.12	0.0071896	113	-19	+7	
30	181	6 30 19.54	97 41 52.01	57 12.71	0.00	0.0072009	91	-24	+4	
Juli	1	182	6 34 16.10	98 39 4.72	57 12.89	-0.13	0.0072100	67	-23	0
	2	183	6 38 12.65	99 36 17.61	57 13.05	-0.26	0.0072167	42	-19	-4
	3	184	6 42 9.21	100 33 30.66	57 13.19	-0.37	0.0072209	15	-11	-7
	4	185	6 46 5.77	101 30 43.85	57 13.29	-0.45	0.0072224	11	-2	-9
	5	186	6 50 2.32	102 27 57.14	57 13.34	-0.50	0.0072213	37	+10	-8
	6	187	6 53 58.88	103 25 10.48	57 13.34	-0.53	0.0072176	65	+18	-6
	7	188	6 57 55.44	104 22 23.82	57 13.29	-0.53	0.0072111	92	+24	-3
	8	189	7 1 51.99	105 19 37.11	57 13.23	-0.50	0.0072019	117	+26	+1
	9	190	7 5 48.55	106 16 50.34	57 13.16	-0.44	0.0071902	142	+24	+5
	10	191	7 9 45.11	107 14 3.50	57 13.09	-0.36	0.0071760	164	+17	+8
	11	192	7 13 41.66	108 11 16.59		-0.25	0.0071596		+8	+9

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.- Dauer St. - Zt.	Halbm.	
Juli	10 Do	+4 59.72	7 ^h 14 ^m 44.83	^m 4 5.22	+22° 20' 15.9"	7 29.1	136.45	15 43.90	
	11 Fr	5 8.39	7 18 50.05	4 4.77	22 12 46.8	7 52.0	136.33	15 43.94	
	12 Sa	5 16.60	7 22 54.82	4 4.30	22 4 54.8	8 14.8	136.21	15 43.98	
	13 So	5 24.34	7 26 59.12	4 3.82	21 56 40.0	8 37.3	136.08	15 44.02	
	14 Mo	5 31.60	7 31 2.94	4 3.32	21 48 2.7	8 59.6	135.95	15 44.08	
	15 Di	+5 38.37	7 35 6.26	4 2.83	+21 39 3.1	9 21.8	135.82	15 44.14	
	16 Mi	5 44.64	7 39 9.09	4 2.31	21 29 41.3	9 43.7	135.68	15 44.20	
	17 Do	5 50.39	7 43 11.40	4 1.78	21 19 57.6	10 5.4	135.54	15 44.25	
	18 Fr	5 55.62	7 47 13.18	4 1.26	21 9 52.2	10 26.9	135.39	15 44.31	
	19 Sa	6 0.32	7 51 14.44	4 0.70	20 59 25.3	10 48.2	135.24	15 44.37	
	20 So	+6 4.47	7 55 15.14	4 0.15	+20 48 37.1	11 9.3	135.09	15 44.44	
	21 Mo	6 8.07	7 59 15.29	3 59.61	20 37 27.8	11 30.1	134.93	15 44.52	
	22 Di	6 11.12	8 3 14.90	3 59.04	20 25 57.7	11 50.7	134.77	15 44.60	
	23 Mi	6 13.61	8 7 13.94	3 58.48	20 14 7.0	12 11.1	134.61	15 44.68	
	24 Do	6 15.53	8 11 12.42	3 57.92	20 1 55.9	12 31.1	134.45	15 44.76	
	25 Fr	+6 16.89	8 15 10.34	3 57.34	+19 49 24.8	12 51.1	134.29	15 44.84	
	26 Sa	6 17.68	8 19 7.68	3 56.77	19 36 33.7	13 10.6	134.12	15 44.93	
	27 So	6 17.90	8 23 4.45	3 56.20	19 23 23.1	13 30.0	133.95	15 45.02	
	28 Mo	6 17.54	8 27 0.65	3 55.62	19 9 53.1	13 49.1	133.78	15 45.12	
	29 Di	6 16.60	8 30 56.27	3 55.05	18 56 4.0	14 7.9	133.61	15 45.22	
	30 Mi	+6 15.09	8 34 51.32	3 54.45	+18 41 56.1	14 26.4	133.44	15 45.33	
	31 Do	6 12.99	8 38 45.77	3 53.86	18 27 29.7	14 44.6	133.26	15 45.44	
	Aug.	1 Fr	6 10.30	8 42 39.63	3 53.28	18 12 45.1	15 2.6	133.08	15 45.56
		2 Sa	6 7.02	8 46 32.91	3 52.67	17 57 42.5	15 20.1	132.90	15 45.68
		3 So	6 3.14	8 50 25.58	3 52.07	17 42 22.4	15 37.4	132.73	15 45.80
		4 Mo	+5 58.65	8 54 17.65	3 51.47	+17 26 45.0	15 54.4	132.56	15 45.93
		5 Di	5 53.56	8 58 9.12	3 50.85	17 10 50.6	16 11.1	132.38	15 46.06
		6 Mi	5 47.86	9 1 59.97	3 50.25	16 54 39.5	16 27.5	132.21	15 46.20
		7 Do	5 41.56	9 5 50.22	3 49.65	16 38 12.0	16 43.5	132.04	15 46.35
8 Fr		5 34.65	9 9 39.87	3 49.03	16 21 28.5	16 59.2	131.87	15 46.50	
9 Sa		+5 27.13	9 13 28.90	3 48.45	+16 4 29.3	17 14.7	131.70	15 46.65	
10 So		5 19.02	9 17 17.35	3 47.85	15 47 14.6	17 29.8	131.53	15 46.81	
11 Mo		5 10.32	9 21 5.20	3 47.26	15 29 44.8	17 44.6	131.37	15 46.98	
12 Di		5 1.03	9 24 52.46	3 46.69	15 12 0.2	17 59.1	131.21	15 47.15	
13 Mi		4 51.16	9 28 39.15	3 46.10	14 54 1.1	18 13.4	131.05	15 47.32	
14 Do		+4 40.71	9 32 25.25	3 45.54	+14 35 47.7	18 27.3	130.89	15 47.50	
15 Fr	4 29.70	9 36 10.79	3 45.01	14 17 20.4	18 41.0	130.73	15 47.68		
16 Sa	4 18.15	9 39 55.80	3 44.46	13 58 39.4	18 54.2	130.58	15 47.86		
17 So	4 6.06	9 43 40.26	3 43.93	13 39 45.2	19 7.3	130.43	15 48.04		
18 Mo	3 53.44	9 47 24.19		13 20 37.9		130.28	15 48.22		

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Aequ. 1902.0			Lg. Rad. v.	Diff.	Nut. (
		Länge	Diff.	Breite			in $0^{\circ}.01$ $d\lambda$	$d\epsilon$	
Juli	10 191	7 ^h 9 ^m 45. ^s 11	107° 14' 3.50	57 13.09	-0.36	0.0071760	164	+17 +8	
	11 192	7 13 41.66	108 11 16.59	57 13.05	-0.25	0.0071596	186	+ 8 +9	
	12 193	7 17 38.22	109 8 29.64	57 13.04	-0.12	0.0071410	206	- 2 +8	
	13 194	7 21 34.78	110 5 42.68	57 13.09	+0.01	0.0071204	224	-10 +6	
	14 195	7 25 31.33	111 2 55.77	57 13.18	+0.13	0.0070980	242	-16 +2	
	15 196	7 29 27.89	112 0 8.95	57 13.33	+0.25	0.0070738	259	-17 -2	
	16 197	7 33 24.45	112 57 22.28	57 13.53	+0.36	0.0070479	278	-14 -6	
	17 198	7 37 21.00	113 54 35.81	57 13.81	+0.45	0.0070201	295	- 9 -8	
	18 199	7 41 17.56	114 51 49.62	57 14.15	+0.52	0.0069906	309	- 1 -9	
	19 200	7 45 14.11	115 49 3.77	57 14.58	+0.57	0.0069597	322	+ 6 -8	
	20 201	7 49 10.67	116 46 18.35	57 15.09	+0.59	0.0069275	336	+12 -5	
	21 202	7 53 7.23	117 43 33.44	57 15.68	+0.59	0.0068939	350	+15 -1	
	22 203	7 57 3.78	118 40 49.12	57 16.35	+0.56	0.0068589	364	+14 +2	
	23 204	8 1 0.34	119 38 5.47	57 17.12	+0.50	0.0068225	380	+ 8 +6	
	24 205	8 4 56.89	120 35 22.59	57 17.96	+0.42	0.0067845	395	0 +8	
	25 206	8 8 53.44	121 32 40.55	57 18.87	+0.32	0.0067450	411	- 9 +9	
	26 207	8 12 50.00	122 29 59.42	57 19.85	+0.21	0.0067039	428	-17 +7	
	27 208	8 16 46.56	123 27 19.27	57 20.88	+0.08	0.0066611	446	-22 +5	
	28 209	8 20 43.11	124 24 40.15	57 21.96	-0.06	0.0066165	466	-24 +1	
	29 210	8 24 39.67	125 22 2.11	57 23.05	-0.18	0.0065699	485	-22 -3	
	30 211	8 28 36.23	126 19 25.16	57 24.15	-0.29	0.0065214	506	-15 -6	
	31 212	8 32 32.78	127 16 49.31	57 25.23	-0.37	0.0064708	530	- 6 -9	
	Aug.	1 213	8 36 29.34	128 14 14.54	57 26.29	-0.43	0.0064178	554	+ 5 -9
		2 214	8 40 25.89	129 11 40.83	57 27.33	-0.46	0.0063624	578	+15 -7
		3 215	8 44 22.44	130 9 8.16	57 28.32	-0.47	0.0063046	603	+23 -4
		4 216	8 48 19.00	131 6 36.48	57 29.25	-0.45	0.0062443	628	+26 0
		5 217	8 52 15.55	132 4 5.73	57 30.12	-0.39	0.0061815	652	+24 +4
		6 218	8 56 12.11	133 1 35.85	57 30.97	-0.30	0.0061163	674	+20 +7
		7 219	9 0 8.66	133 59 6.82	57 31.81	-0.19	0.0060489	695	+11 +9
		8 220	9 4 5.22	134 56 38.63	57 32.65	-0.07	0.0059794	715	+ 1 +9
9 221		9 8 1.77	135 54 11.28	57 33.51	+0.06	0.0059079	735	- 7 +7	
10 222		9 11 58.33	136 51 44.79	57 34.39	+0.19	0.0058344	754	-14 +3	
11 223		9 15 54.88	137 49 19.18	57 35.29	+0.31	0.0057590	770	-16 0	
12 224		9 19 51.43	138 46 54.47	57 36.22	+0.42	0.0056820	784	-16 -4	
13 225		9 23 47.99	139 44 30.69	57 37.21	+0.51	0.0056036	797	-10 -7	
14 226		9 27 44.54	140 42 7.90	57 38.26	+0.59	0.0055239	811	- 4 -9	
15 227		9 31 41.09	141 39 46.16	57 39.35	+0.64	0.0054428	824	+ 5 -8	
16 228		9 35 37.65	142 37 25.51	57 40.50	+0.67	0.0053604	835	+10 -6	
17 229		9 39 34.20	143 35 6.01	57 41.72	+0.67	0.0052769	844	+14 -3	
18 230		9 43 30.76	144 32 47.73		+0.64	0.0051925		+14 +1	

Mittlerer Berliner Mittag.

Monats- und Wochentag	Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg- Dauer St. - Zt.	Halbm.
Aug. 17 So	+4 ^m 6.06	9 ^h 43 ^m 40.26	^m 3 43.93	+13 ^o 39' 45.2"	["] 19 7.3	130.43	15 48.04
18 Mo	3 53.44	9 47 24.19	3 43.44	13 20 37.9	19 20.0	130.28	15 48.22
19 Di	3 40.32	9 51 7.63	3 42.93	13 1 17.9	19 32.3	130.13	15 48.41
20 Mi	3 26.70	9 54 50.56	3 42.45	12 41 45.6	19 44.5	129.99	15 48.60
21 Do	3 12.60	9 58 33.01	3 41.99	12 22 1.1	19 56.3	129.85	15 48.79
22 Fr	+2 58.03	10 2 15.00	3 41.54	+12 2 4.8	20 7.9	129.71	15 48.98
23 Sa	2 43.02	10 5 56.54	3 41.11	11 41 56.9	20 19.0	129.58	15 49.18
24 So	2 27.57	10 9 37.65	3 40.69	11 21 37.9	20 29.9	129.45	15 49.38
25 Mo	2 11.71	10 13 18.34	3 40.31	11 1 8.0	20 40.6	129.32	15 49.58
26 Di	1 55.46	10 16 58.65	3 39.91	10 40 27.4	20 50.7	129.20	15 49.79
27 Mi	+1 38.82	10 20 38.56	3 39.54	+10 19 36.7	21 0.8	129.08	15 50.00
28 Do	1 21.81	10 24 18.10	3 39.19	9 58 35.9	21 10.3	128.97	15 50.20
29 Fr	1 4.45	10 27 57.29	3 38.86	9 37 25.6	21 19.6	128.86	15 50.40
30 Sa	0 46.75	10 31 36.15	3 38.51	9 16 6.0	21 28.5	128.75	15 50.62
31 So	0 28.71	10 35 14.66	3 38.20	8 54 37.5	21 37.1	128.65	15 50.84
Sept. 1 Mo	+0 10.36	10 38 52.86	3 37.89	+ 8 33 0.4	21 45.4	128.56	15 51.06
2 Di	-0 8.30	10 42 30.75	3 37.61	8 11 15.0	21 53.2	128.47	15 51.28
3 Mi	0 27.25	10 46 8.36	3 37.32	7 49 21.8	22 0.8	128.38	15 51.51
4 Do	0 46.48	10 49 45.68	3 37.06	7 27 21.0	22 8.0	128.30	15 51.74
5 Fr	1 5.97	10 53 22.74	3 36.80	7 5 13.0	22 14.9	128.23	15 51.99
6 Sa	-1 25.72	10 56 59.54	3 36.56	+ 6 42 58.1	22 21.5	128.16	15 52.24
7 So	1 45.71	11 0 36.10	3 36.35	6 20 36.6	22 27.6	128.10	15 52.49
8 Mo	2 5.92	11 4 12.45	3 36.14	5 58 9.0	22 33.5	128.04	15 52.74
9 Di	2 26.33	11 7 48.59	3 35.97	5 35 35.5	22 39.1	127.99	15 52.99
10 Mi	2 46.92	11 11 24.56	3 35.79	5 12 56.4	22 44.3	127.94	15 53.24
11 Do	-3 7.67	11 15 0.35	3 35.65	+ 4 50 12.1	22 49.2	127.90	15 53.49
12 Fr	3 28.57	11 18 36.00	3 35.53	4 27 22.9	22 53.8	127.87	15 53.74
13 Sa	3 49.59	11 22 11.53	3 35.43	4 4 29.1	22 58.0	127.84	15 54.00
14 So	4 10.72	11 25 46.96	3 35.34	3 41 31.1	23 2.0	127.82	15 54.26
15 Mo	4 31.93	11 29 22.30	3 35.28	3 18 29.1	23 5.6	127.80	15 54.52
16 Di	-4 53.20	11 32 57.58	3 35.24	+ 2 55 23.5	23 9.0	127.79	15 54.78
17 Mi	5 14.51	11 36 32.82	3 35.23	2 32 14.5	23 11.9	127.78	15 55.04
18 Do	5 35.84	11 40 8.05	3 35.24	2 9 2.6	23 14.7	127.78	15 55.30
19 Fr	5 57.15	11 43 43.29	3 35.28	1 45 47.9	23 17.0	127.79	15 55.56
20 Sa	6 18.42	11 47 18.57	3 35.34	1 22 30.9	23 19.0	127.80	15 55.82
21 So	-6 39.63	11 50 53.91	3 35.42	+ 0 59 11.9	23 20.8	127.81	15 56.08
22 Mo	7 0.76	11 54 29.33	3 35.53	0 35 51.1	23 22.1	127.83	15 56.34
23 Di	7 21.78	11 58 4.86	3 35.66	+ 0 12 29.0	23 23.3	127.86	15 56.60
24 Mi	7 42.67	12 1 40.52	3 35.80	- 0 10 54.3	23 23.9	127.90	15 56.86
25 Do	8 3.42	12 5 16.32		0 34 18.2		127.94	15 57.13

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Aequ. 1902.0			Lg. Rad. v.	Diff.	Nut. (
		Länge	Diff.	Breite			in °.01 dλ	dε
Aug. 17	229	9 ^h 39 ^m 34.20 ^s	143° 35' 6.01"	57° 41.72'	+0.67	0.0052769	844	+14 -3
18	230	9 43 30.76	144 32 47.73	57 43.03	+0.64	0.0051925	854	+14 +1
19	231	9 47 27.31	145 30 30.76	57 44.42	+0.58	0.0051071	864	+11 +5
20	232	9 51 23.86	146 28 15.18	57 45.88	+0.50	0.0050207	872	+ 3 +8
21	233	9 55 20.42	147 26 1.06	57 47.43	+0.40	0.0049335	881	- 6 +9
22	234	9 59 16.97	148 23 48.49	57 49.06	+0.29	0.0048454	891	-14 +8
23	235	10 3 13.52	149 21 37.55	57 50.76	+0.16	0.0047563	902	-22 +6
24	236	10 7 10.08	150 19 28.31	57 52.53	+0.02	0.0046661	913	-25 +2
25	237	10 11 6.63	151 17 20.84	57 54.35	-0.11	0.0045748	924	-23 -2
26	238	10 15 3.18	152 15 15.19	57 56.20	-0.22	0.0044824	937	-18 -6
27	239	10 18 59.74	153 13 11.39	57 58.06	-0.31	0.0043887	951	-10 -8
28	240	10 22 56.29	154 11 9.45	57 59.91	-0.38	0.0042936	968	+ 2 -9
29	241	10 26 52.84	155 9 9.36	58 1.76	-0.42	0.0041968	985	+11 -8
30	242	10 30 49.39	156 7 11.12	58 3.58	-0.43	0.0040983	1003	+21 -5
31	243	10 34 45.95	157 5 14.70	58 5.34	-0.41	0.0039980	1020	+25 -1
Sept. 1	244	10 38 42.50	158 3 20.04	58 7.05	-0.35	0.0038960	1038	+26 +3
2	245	10 42 39.05	159 1 27.09	58 8.72	-0.26	0.0037922	1055	+21 +6
3	246	10 46 35.60	159 59 35.81	58 10.34	-0.15	0.0036867	1073	+14 +8
4	247	10 50 32.16	160 57 46.15	58 11.92	-0.03	0.0035794	1090	+ 5 +9
5	248	10 54 28.71	161 55 58.07	58 13.48	+0.10	0.0034704	1105	- 5 +7
6	249	10 58 25.26	162 54 11.55	58 15.02	+0.24	0.0033599	1118	-12 +5
7	250	11 2 21.81	163 52 26.57	58 16.54	+0.37	0.0032481	1130	-16 +1
8	251	11 6 18.37	164 50 43.11	58 18.06	+0.49	0.0031351	1141	-16 -3
9	252	11 10 14.92	165 49 1.17	58 19.61	+0.60	0.0030210	1151	-12 -7
10	253	11 14 11.47	166 47 20.78	58 21.17	+0.68	0.0029059	1159	- 6 -9
11	254	11 18 8.02	167 45 41.95	58 22.75	+0.73	0.0027900	1166	+ 3 -9
12	255	11 22 4.57	168 44 4.70	58 24.36	+0.76	0.0026734	1173	+ 9 -7
13	256	11 26 1.12	169 42 29.06	58 26.02	+0.77	0.0025561	1178	+14 -4
14	257	11 29 57.68	170 40 55.08	58 27.73	+0.75	0.0024383	1181	+15 0
15	258	11 33 54.23	171 39 22.81	58 29.48	+0.70	0.0023202	1184	+14 +4
16	259	11 37 50.78	172 37 52.29	58 31.29	+0.63	0.0022018	1185	+ 5 +7
17	260	11 41 47.33	173 36 23.58	58 33.17	+0.54	0.0020833	1185	- 3 +9
18	261	11 45 43.89	174 34 56.75	58 35.15	+0.42	0.0019648	1184	-12 +9
19	262	11 49 40.44	175 33 31.90	58 37.21	+0.28	0.0018464	1185	-19 +7
20	263	11 53 36.99	176 32 9.11	58 39.34	+0.15	0.0017279	1187	-24 +3
21	264	11 57 33.54	177 30 48.45	58 41.52	+0.03	0.0016092	1188	-24 -1
22	265	12 1 30.09	178 29 29.97	58 43.75	-0.09	0.0014904	1189	-21 -5
23	266	12 5 26.64	179 28 13.72	58 46.03	-0.20	0.0013715	1192	-12 -7
24	267	12 9 23.19	180 26 59.75	58 48.33	-0.28	0.0012523	1197	- 2 -9
25	268	12 13 19.75	181 25 48.08		-0.32	0.0011326		+ 9 -8

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.- Dauer St.-Zt.	Halbm.
Sept.	24 Mi	— 7 ^m 42.67	12 ^h 1 ^m 40.52	^m 35.80	— 0° 10' 54.3	²³ 23.9	127.90	15 56.86
	25 Do	8 3.42	12 5 16.32	3 35.98	0 34 18.2	²³ 24.4	127.94	15 57.13
	26 Fr	8 24.00	12 8 52.30	3 36.17	0 57 42.6	²³ 24.5	127.99	15 57.40
	27 Sa	8 44.38	12 12 28.47	3 36.38	1 21 7.1	²³ 24.1	128.04	15 57.66
	28 So	9 4.55	12 16 4.85	3 36.61	1 44 31.2	²³ 23.3	128.10	15 57.93
	29 Mo	— 9 24.49	12 19 41.46	3 36.85	— 2 7 54.5	²³ 22.3	128.17	15 58.20
	30 Di	9 44.20	12 23 18.31	3 37.10	2 31 16.8	²³ 20.9	128.24	15 58.47
Oct.	1 Mi	10 3.65	12 26 55.41	3 37.37	2 54 37.7	²³ 19.0	128.32	15 58.74
	2 Do	10 22.82	12 30 32.78	3 37.68	3 17 56.7	²³ 16.8	128.41	15 59.02
	3 Fr	10 41.70	12 34 10.46	3 37.99	3 41 13.5	²³ 14.3	128.50	15 59.30
	4 Sa	— 11 0.27	12 37 48.45	3 38.31	— 4 4 27.8	²³ 11.4	128.60	15 59.58
	5 So	11 18.51	12 41 26.76	3 38.65	4 27 39.2	²³ 8.0	128.70	15 59.86
	6 Mo	11 36.41	12 45 5.41	3 39.02	4 50 47.2	²³ 4.4	128.81	16 0.14
	7 Di	11 53.94	12 48 44.43	3 39.39	5 13 51.6	²³ 0.4	128.92	16 0.42
	8 Mi	12 11.10	12 52 23.82	3 39.80	5 36 52.0	²² 56.0	129.04	16 0.70
	9 Do	— 12 27.86	12 56 3.62	3 40.21	— 5 59 48.0	²² 51.2	129.17	16 0.98
	10 Fr	12 44.20	12 59 43.83	3 40.65	6 22 39.2	²² 46.0	129.30	16 1.26
	11 Sa	13 0.10	13 3 24.48	3 41.11	6 45 25.2	²² 40.6	129.44	16 1.55
	12 So	13 15.55	13 7 5.59	3 41.57	7 8 5.8	²² 34.7	129.58	16 1.83
	13 Mo	13 30.52	13 10 47.16	3 42.08	7 30 40.5	²² 28.4	129.73	16 2.10
	14 Di	— 13 45.00	13 14 29.24	3 42.59	— 7 53 8.9	²² 21.8	129.88	16 2.38
	15 Mi	13 58.96	13 18 11.83	3 43.12	8 15 30.7	²² 14.8	130.04	16 2.66
	16 Do	14 12.39	13 21 54.95	3 43.69	8 37 45.5	²² 7.5	130.20	16 2.94
	17 Fr	14 25.25	13 25 38.64	3 44.28	8 59 53.0	²¹ 59.8	130.37	16 3.21
	18 Sa	14 37.53	13 29 22.92	3 44.88	9 21 52.8	²¹ 51.7	130.54	16 3.48
	19 So	— 14 49.20	13 33 7.80	3 45.50	— 9 43 44.5	²¹ 43.3	130.72	16 3.74
	20 Mo	15 0.25	13 36 53.30	3 46.15	10 5 27.8	²¹ 34.5	130.90	16 4.00
	21 Di	15 10.66	13 40 39.45	3 46.82	10 27 2.3	²¹ 25.3	131.09	16 4.27
	22 Mi	15 20.40	13 44 26.27	3 47.50	10 48 27.6	²¹ 15.7	131.28	16 4.54
	23 Do	15 29.44	13 48 13.77	3 48.21	11 9 43.3	²¹ 5.7	131.47	16 4.80
	24 Fr	— 15 37.78	13 52 1.98	3 48.91	— 11 30 49.0	²⁰ 55.4	131.67	16 5.06
	25 Sa	15 45.42	13 55 50.89	3 49.65	11 51 44.4	²⁰ 44.6	131.87	16 5.32
	26 So	15 52.33	13 59 40.54	3 50.39	12 12 29.0	²⁰ 33.4	132.07	16 5.57
	27 Mo	15 58.50	14 3 30.93	3 51.13	12 33 2.4	²⁰ 21.8	132.28	16 5.83
	28 Di	16 3.92	14 7 22.06	3 51.90	12 53 24.2	²⁰ 9.7	132.49	16 6.08
	29 Mi	— 16 8.57	14 11 13.96	3 52.67	— 13 13 33.9	¹⁹ 57.3	132.71	16 6.34
	30 Do	16 12.45	14 15 6.63	3 53.43	13 33 31.2	¹⁹ 44.5	132.93	16 6.59
	31 Fr	16 15.57	14 19 0.06	3 54.22	13 53 15.7	¹⁹ 31.2	133.15	16 6.84
Nov.	1 Sa	16 17.91	14 22 54.28	3 55.00	14 12 46.9	¹⁹ 17.5	133.38	16 7.10
	2 So	16 19.46	14 26 49.28		14 32 4.4		133.61	16 7.35

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit			Mittleres Aequ. 1902.0			Lg. Rad. v.	Diff	Nut. (
				Länge	Diff.	Breite			in °, ' , "	Or dz	
Sept.	24	267	12 ^h 9 ^m 23.19	180° 26' 59.75	58 48.33	-0.28	0.0012523	1197	- 2	-9	
	25	268	12 13 19.75	181 25 48.08	58 50.63	-0.32	0.0011326	1201	+ 9	-8	
	26	269	12 17 16.30	182 24 38.71	58 52.92	-0.33	0.0010125	1207	+18	-6	
	27	270	12 21 12.85	183 23 31.63	58 55.18	-0.32	0.0008918	1215	+23	-3	
	28	271	12 25 9.40	184 22 26.81	58 57.41	-0.28	0.0007703	1223	+25	+1	
	29	272	12 29 5.95	185 21 24.22	58 59.57	-0.20	0.0006480	1230	+23	+5	
	30	273	12 33 2.51	186 20 23.79	59 1.68	-0.09	0.0005250	1237	+17	+8	
	Oct.	1	274	12 36 59.06	187 19 25.47	59 3.73	+0.03	0.0004013	1245	+ 8	+9
		2	275	12 40 55.61	188 18 29.20	59 5.71	+0.16	0.0002768	1254	+ 4	+9
		3	276	12 44 52.16	189 17 34.91	59 7.65	+0.30	0.0001514	1261	-10	+6
4		277	12 48 48.72	190 16 42.56	59 9.55	+0.43	0.0000253	1266	-15	+2	
5		278	12 52 45.27	191 15 52.11	59 11.41	+0.55	9.9998987	1270	-16	-2	
6		279	12 56 41.82	192 15 3.52	59 13.23	+0.66	9.9997717	1274	-13	-6	
7		280	13 0 38.37	193 14 16.75	59 15.02	+0.75	9.9996443	1275	- 7	-8	
8		281	13 4 34.92	194 13 31.77	59 16.81	+0.81	9.9995168	1275	+ 1	-9	
9		282	13 8 31.48	195 12 48.58	59 18.60	+0.85	9.9993893	1274	+ 8	-8	
10		283	13 12 28.03	196 12 7.18	59 20.39	+0.86	9.9992619	1272	+14	-5	
11	284	13 16 24.58	197 11 27.57	59 22.17	+0.84	9.9991347	1270	+15	-1		
12	285	13 20 21.13	198 10 49.74	59 23.97	+0.80	9.9990077	1265	+13	+3		
13	286	13 24 17.68	199 10 13.71	59 25.78	+0.73	9.9988812	1258	+ 9	+6		
14	287	13 28 14.24	200 9 39.49	59 27.63	+0.64	9.9987554	1249	0	+8		
15	288	13 32 10.79	201 9 7.12	59 29.53	+0.52	9.9986305	1241	- 9	+9		
16	289	13 36 7.34	202 8 36.65	59 31.51	+0.39	9.9985064	1231	-17	+7		
17	290	13 40 3.89	203 8 8.16	59 33.56	+0.25	9.9983833	1220	-24	+5		
18	291	13 44 0.45	204 7 41.72	59 35.67	+0.11	9.9982613	1209	-25	+1		
19	292	13 47 57.00	205 7 17.39	59 37.83	-0.02	9.9981404	1199	-23	-3		
20	293	13 51 53.55	206 6 55.22	59 40.04	-0.13	9.9980205	1188	-16	-7		
21	294	13 55 50.11	207 6 35.26	59 42.31	-0.22	9.9979017	1179	- 6	-9		
22	295	13 59 46.66	208 6 17.57	59 44.61	-0.28	9.9977838	1172	+ 5	-9		
23	296	14 3 43.21	209 6 2.18	59 46.89	-0.30	9.9976666	1164	+14	-7		
24	297	14 7 39.76	210 5 49.07	59 49.16	-0.29	9.9975502	1158	+22	-4		
25	298	14 11 36.32	211 5 38.23	59 51.40	-0.25	9.9974344	1153	+25	0		
26	299	14 15 32.87	212 5 29.63	59 53.62	-0.18	9.9973191	1149	+24	+4		
27	300	14 19 29.42	213 5 23.25	59 55.78	-0.09	9.9972042	1145	+18	+7		
28	301	14 23 25.98	214 5 19.03	59 57.86	+0.02	9.9970897	1142	+11	+9		
29	302	14 27 22.53	215 5 16.89	59 59.87	+0.15	9.9969755	1139	+ 2	+9		
30	303	14 31 19.08	216 5 16.76	60 1.81	+0.29	9.9968616	1136	- 7	+7		
31	304	14 35 15.64	217 5 18.57	60 3.68	+0.43	9.9967480	1133	-13	+3		
Nov.	1	305	14 39 12.19	218 5 22.25	60 5.49	+0.55	9.9966347	1129	-15	-1	
	2	306	14 43 8.75	219 5 27.74		+0.66	9.9965218		-15	-5	

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Diff.	Decl. app.	Diff.	Durchg.- Dauer St. - Zt.	Halbm.
Nov.	1 Sa	—16 ^m 17.91	14 ^h 22 ^m 54.28	^m 55.00	—14 ^o 12' 46.9"	19 17.5	133.38	16 7.10
	2 So	16 19.46	14 26 49.28	3 55.81	14 32 4.4	19 3.3	133.61	16 7.35
	3 Mo	16 20.21	14 30 45.09	3 56.60	14 51 7.7	18 48.8	133.84	16 7.60
	4 Di	16 20.16	14 34 41.69	3 57.41	15 9 56.5	18 33.9	134.07	16 7.85
	5 Mi	16 19.31	14 38 39.10	3 58.22	15 28 30.4	18 18.6	134.30	16 8.09
	6 Do	—16 17.65	14 42 37.32	3 59.03	—15 46 49.0	18 2.8	134.54	16 8.34
	7 Fr	16 15.17	14 46 36.35	3 59.86	16 4 51.8	17 46.6	134.78	16 8.58
	8 Sa	16 11.87	14 50 36.21	4 0.66	16 22 38.4	17 30.0	135.02	16 8.82
	9 So	16 7.75	14 54 36.87	4 1.49	16 40 8.4	17 13.0	135.26	16 9.06
	10 Mo	16 2.82	14 58 38.36	4 2.32	16 57 21.4	16 55.7	135.50	16 9.30
	11 Di	—15 57.06	15 2 40.68	4 3.16	—17 14 17.1	16 37.9	135.74	16 9.54
	12 Mi	15 50.46	15 6 43.84	4 3.99	17 30 55.0	16 19.8	135.98	16 9.77
	13 Do	15 43.02	15 10 47.83	4 4.84	17 47 14.8	16 1.2	136.22	16 10.00
	14 Fr	15 34.73	15 14 52.67	4 5.68	18 3 16.0	15 42.3	136.46	16 10.22
	15 Sa	15 25.61	15 18 58.35	4 6.51	18 18 58.3	15 22.9	136.69	16 10.43
	16 So	—15 15.65	15 23 4.86	4 7.36	—18 34 21.2	15 3.2	136.92	16 10.64
	17 Mo	15 4.85	15 27 12.22	4 8.20	18 49 24.4	14 43.2	137.15	16 10.85
	18 Di	14 53.20	15 31 20.42	4 9.06	19 4 7.6	14 22.7	137.38	16 11.05
	19 Mi	14 40.70	15 35 29.48	4 9.90	19 18 30.3	14 1.9	137.61	16 11.25
	20 Do	14 27.36	15 39 39.38	4 10.74	19 32 32.2	13 40.8	137.84	16 11.44
	21 Fr	—14 13.18	15 43 50.12	4 11.56	—19 46 13.0	13 19.2	138.07	16 11.62
	22 Sa	13 58.16	15 48 1.68	4 12.40	19 59 32.2	12 57.3	138.29	16 11.80
	23 So	13 42.32	15 52 14.08	4 13.20	20 12 29.5	12 35.1	138.51	16 11.98
	24 Mo	13 25.68	15 56 27.28	4 13.99	20 25 4.6	12 12.4	138.72	16 12.16
	25 Di	13 8.24	16 0 41.27	4 14.78	20 37 17.0	11 49.5	138.93	16 12.34
	26 Mi	—12 50.02	16 4 56.05	4 15.53	—20 49 6.5	11 26.2	139.14	16 12.51
	27 Do	12 31.04	16 9 11.58	4 16.28	21 0 32.7	11 2.5	139.34	16 12.68
	28 Fr	12 11.32	16 13 27.86	4 17.00	21 11 35.2	10 38.5	139.54	16 12.85
	29 Sa	11 50.88	16 17 44.86	4 17.69	21 22 13.7	10 14.3	139.73	16 13.02
	30 So	11 29.74	16 22 2.55	4 18.38	21 32 28.0	9 49.7	139.92	16 13.18
Dec.	1 Mo	—11 7.92	16 26 20.93	4 19.04	—21 42 17.7	9 24.8	140.10	16 13.34
	2 Di	10 45.44	16 30 39.97	4 19.66	21 51 42.5	8 59.6	140.28	16 13.50
	3 Mi	10 22.33	16 34 59.63	4 20.27	22 0 42.1	8 34.2	140.45	16 13.65
	4 Do	9 58.62	16 39 19.90	4 20.84	22 9 16.3	8 8.4	140.61	16 13.80
	5 Fr	9 34.34	16 43 40.74	4 21.39	22 17 24.7	7 42.5	140.77	16 13.94
	6 Sa	—9 9.51	16 48 2.13	4 21.91	—22 25 7.2	7 16.3	140.92	16 14.08
	7 So	8 44.15	16 52 24.04	4 22.41	22 32 23.5	6 49.8	141.06	16 14.22
	8 Mo	8 18.30	16 56 46.45	4 22.87	22 39 13.3	6 23.2	141.20	16 14.35
	9 Di	7 51.98	17 1 9.32	4 23.32	22 45 36.5	5 56.3	141.33	16 14.48
	10 Mi	7 25.22	17 5 32.64		22 51 32.8		141.45	16 14.61

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit			Mittleres Aequ. 1902.0			Lg. Rad. v.	Diff.	Nut. (
				Länge	Diff.	Breite			in °, ' , "	or d λ	d ε
Nov.	1	305	14 ^h 39 ^m 12.19	218° 5' 22.25	60 5.49	+0.55	9.9966347	1129	-15	-1
	2	306	14 43 8.75	219 5 27.74	60 7.23	+0.66	9.9965218	1124	-15	-5
	3	307	14 47 5.30	220 5 34.97	60 8.91	+0.75	9.9964094	1117	-9	-7
	4	308	14 51 1.85	221 5 43.88	60 10.55	+0.82	9.9962977	1110	-2	-9
	5	309	14 54 58.41	222 5 54.43	60 12.13	+0.87	9.9961867	1103	+6	-8
	6	310	14 58 54.96	223 6 6.56	60 13.67	+0.89	9.9960764	1094	+12	-6
	7	311	15 2 51.52	224 6 20.23	60 15.17	+0.89	9.9959670	1083	+15	-3
	8	312	15 6 48.07	225 6 35.40	60 16.64	+0.85	9.9958587	1071	+15	+1
	9	313	15 10 44.62	226 6 52.04	60 18.10	+0.78	9.9957516	1058	+11	+5
	10	314	15 14 41.18	227 7 10.14	60 19.54	+0.69	9.9956458	1043	+3	+8
	11	315	15 18 37.74	228 7 29.68	60 20.98	+0.58	9.9955415	1026	-6	+9
	12	316	15 22 34.29	229 7 50.66	60 22.43	+0.46	9.9954389	1009	-15	+8
	13	317	15 26 30.85	230 8 13.09	60 23.92	+0.33	9.9953380	990	-22	+6
	14	318	15 30 27.40	231 8 37.01	60 25.45	+0.20	9.9952390	969	-25	+2
	15	319	15 34 23.96	232 9 2.46	60 27.02	+0.07	9.9951421	948	-24	-2
	16	320	15 38 20.51	233 9 29.48	60 28.66	-0.05	9.9950473	926	-19	-6
	17	321	15 42 17.07	234 9 58.14	60 30.35	-0.15	9.9949547	905	-10	-8
	18	322	15 46 13.62	235 10 28.49	60 32.08	-0.23	9.9948642	885	+1	-9
	19	323	15 50 10.18	236 11 0.57	60 33.84	-0.27	9.9947757	865	+11	-8
	20	324	15 54 6.74	237 11 34.41	60 35.61	-0.28	9.9946892	846	+20	-5
	21	325	15 58 3.29	238 12 10.02	60 37.37	-0.26	9.9946046	829	+24	-1
	22	326	16 1 59.84	239 12 47.39	60 39.11	-0.21	9.9945217	813	+24	+3
	23	327	16 5 56.40	240 13 26.50	60 40.80	-0.13	9.9944404	798	+21	+6
	24	328	16 9 52.96	241 14 7.30	60 42.43	-0.02	9.9943606	783	+14	+8
	25	329	16 13 49.51	242 14 49.73	60 44.00	+0.10	9.9942823	770	+5	+9
	26	330	16 17 46.07	243 15 33.73	60 45.49	+0.22	9.9942053	757	-4	+7
	27	331	16 21 42.63	244 16 19.22	60 46.91	+0.34	9.9941296	744	-12	+5
	28	332	16 25 39.18	245 17 6.13	60 48.25	+0.46	9.9940552	731	-15	+1
	29	333	16 29 35.74	246 17 54.38	60 49.52	+0.57	9.9939821	718	-15	-3
	30	334	16 33 32.29	247 18 43.90	60 50.70	+0.67	9.9939103	706	-10	-7
Dec.	1	335	16 37 28.85	248 19 34.60	60 51.78	+0.75	9.9938397	693	-4	-9
	2	336	16 41 25.41	249 20 26.38	60 52.79	+0.81	9.9937704	678	+4	-9
	3	337	16 45 21.96	250 21 19.17	60 53.74	+0.84	9.9937026	663	+10	-7
	4	338	16 49 18.52	251 22 12.91	60 54.61	+0.84	9.9936363	648	+15	-4
	5	339	16 53 15.08	252 23 7.52	60 55.43	+0.82	9.9935715	631	+15	0
	6	340	16 57 11.63	253 24 2.95	60 56.18	+0.77	9.9935084	613	+12	+4
	7	341	17 1 8.19	254 24 59.13	60 56.87	+0.69	9.9934471	594	+6	+7
	8	342	17 5 4.75	255 25 56.00	60 57.52	+0.58	9.9933877	574	-3	+9
	9	343	17 9 1.30	256 26 53.52	60 58.14	+0.46	9.9933303	553	-12	+9
	10	344	17 12 57.86	257 27 51.66		+0.33	9.9932750		-20	+7

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	AR. app.	Dif.	Decl. app.	Dif.	Durchg.- Dauer St. - Zt.	Halbm.
Dec.	9 Di	—7 ^m 51.98	17 ^h 1 ^m 9.32	^m 23.32	—22° 45' 36.5"	5 56.3	141.33	16' 14.48
	10 Mi	7 25.22	17 5 32.64	4 23.74	22 51 32.8	5 29.3	141.45	16 14.61
	11 Do	6 58.04	17 9 56.38	4 24.12	22 57 2.1	5 2.0	141.56	16 14.73
	12 Fr	6 30.48	17 14 20.50	4 24.47	23 2 4.1	4 34.6	141.66	16 14.84
	13 Sa	6 2.56	17 18 44.97	4 24.80	23 6 38.7	4 7.1	141.76	16 14.95
	14 So	—5 34.32	17 23 9.77	4 25.11	—23 10 45.8	3 39.4	141.86	16 15.06
	15 Mo	5 5.77	17 27 34.88	4 25.39	23 14 25.2	3 11.5	141.94	16 15.15
	16 Di	4 36.94	17 32 0.27	4 25.64	23 17 36.7	2 43.6	142.01	16 15.24
	17 Mi	4 7.85	17 36 25.91	4 25.87	23 20 20.3	2 15.6	142.07	16 15.32
	18 Do	3 38.54	17 40 51.78	4 26.06	23 22 35.9	1 47.5	142.12	16 15.40
	19 Fr	—3 9.04	17 45 17.84	4 26.23	—23 24 23.4	1 19.4	142.16	16 15.46
	20 Sa	2 39.37	17 49 44.07	4 26.36	23 25 42.8	0 51.1	142.19	16 15.52
	21 So	2 9.57	17 54 10.43	4 26.45	23 26 33.9	0 22.8	142.22	16 15.58
	22 Mo	1 39.67	17 58 36.88	4 26.51	23 26 56.7	0 5.4	142.23	16 15.64
	23 Di	1 9.71	18 3 3.39	4 26.55	23 26 51.3	0 33.7	142.24	16 15.68
	24 Mi	—0 39.72	18 7 29.94	4 26.54	—23 26 17.6	1 2.1	142.24	16 15.72
	25 Do	—0 9.74	18 11 56.48	4 26.49	23 25 15.5	1 30.3	142.22	16 15.76
	26 Fr	+0 20.19	18 16 22.97	4 26.40	23 23 45.2	1 58.5	142.20	16 15.80
	27 Sa	0 50.03	18 20 49.37	4 26.28	23 21 46.7	2 26.6	142.17	16 15.84
	28 So	1 19.75	18 25 15.65	4 26.12	23 19 20.1	2 54.8	142.13	16 15.86
	29 Mo	+1 49.32	18 29 41.77	4 25.93	—23 16 25.3	3 22.8	142.08	16 15.88
	30 Di	2 18.69	18 34 7.70	4 25.69	23 13 2.5	3 50.7	142.02	16 15.90
	31 Mi	2 47.82	18 38 33.39	4 25.43	23 9 11.8	4 18.4	141.95	16 15.92
	32 Do	3 16.69	18 42 58.82	4 25.13	23 4 53.4	4 46.1	141.88	16 15.94
	33 Fr	3 45.26	18 47 23.95		23 0 7.3		141.81	16 15.96

Frühjahrs - Aequinoctium	März 21	^h 2
Sommer - Solstitium	Juni 21	22
Herbst - Aequinoctium	Sept. 23	13
Winter - Solstitium	Dec. 22	7

Mittlerer Berliner Mittag.

Monats- und Jahrestag	Sternzeit	Mittleres Aequ. 1902.0			Lg. Rad. v.	Dif.	Nut. (C			
		Länge	Dif.	Breite			in o°.or	dε		
Dec. 9	343	17 ^h 9 ^m 1.30	256° 26'	53.52	60' 58.14	+0.46	9.9933303	553	-12	+9
10	344	17 12 57.86	257 27	51.66	60 58.73	+0.33	9.9932750	529	-20	+7
11	345	17 16 54.42	258 28	50.39	60 59.32	+0.19	9.9932221	504	-25	+3
12	346	17 20 50.98	259 29	49.71	60 59.92	+0.05	9.9931717	478	-25	-1
13	347	17 24 47.53	260 30	49.63	61 0.55	-0.07	9.9931239	450	-21	-5
14	348	17 28 44.09	261 31	50.18	61 1.21	-0.17	9.9930789	422	-13	-7
15	349	17 32 40.65	262 32	51.39	61 1.92	-0.24	9.9930367	395	- 3	-9
16	350	17 36 37.20	263 33	53.31	61 2.69	-0.29	9.9929972	366	+ 8	-8
17	351	17 40 33.76	264 34	56.00	61 3.50	-0.31	9.9929606	338	+17	-6
18	352	17 44 30.32	265 35	59.50	61 4.33	-0.30	9.9929268	312	+24	-3
19	353	17 48 26.88	266 37	3.83	61 5.14	-0.26	9.9928956	287	+25	+1
20	354	17 52 23.44	267 38	8.97	61 5.95	-0.18	9.9928669	263	+23	+5
21	355	17 56 19.99	268 39	14.92	61 6.73	-0.08	9.9928406	241	+15	+8
22	356	18 0 16.55	269 40	21.65	61 7.46	+0.03	9.9928165	219	+ 8	+9
23	357	18 4 13.11	270 41	29.11	61 8.13	+0.15	9.9927946	199	- 2	+8
24	358	18 8 9.66	271 42	37.24	61 8.73	+0.28	9.9927747	180	-10	+6
25	359	18 12 6.22	272 43	45.97	61 9.25	+0.40	9.9927567	161	-14	+2
26	360	18 16 2.78	273 44	55.22	61 9.70	+0.51	9.9927406	143	-15	-2
27	361	18 19 59.34	274 46	4.92	61 10.07	+0.61	9.9927263	125	-13	-6
28	362	18 23 55.89	275 47	14.99	61 10.34	+0.69	9.9927138	109	- 6	-8
29	363	18 27 52.45	276 48	25.33	61 10.53	+0.74	9.9927029	91	+ 2	-9
30	364	18 31 49.01	277 49	35.86	61 10.65	+0.76	9.9926938	74	+ 9	-8
31	365	18 35 45.57	278 50	46.51	61 10.67	+0.76	9.9926864	56	+15	-5
32	366	18 39 42.13	279 51	57.18	61 10.61	+0.73	9.9926808	39	+16	-1
33	367	18 43 38.68	280 53	7.79		+0.68	9.9926769		+14	+3

Perigaeum Jan. 0 20^h
 Apogaeum Juli 4 2

Mittl. Aequator und Mittl. Aequinoctium 1902.o.

1902	X	Red. auf 1900.o	Y	Red. auf 1900.o	Z	Red. auf 1900.o
Jan. 0.0	+ 0.155 6482	86290	-		-	
0.5	0.164 2772	86165	0.890 6327	13067	0.386 3767	5671
1.0	0.172 8937	86034	0.889 3260	13758	0.385 8096	5971
1.5	0.181 4971	85897	0.887 9502	14449	0.385 2125	6272
2.0	0.190 0868	85753	0.886 5053	15141	0.384 5853	6571
2.5	0.198 6621	85602	0.884 9912	15831	0.383 9282	6871
3.0	0.207 2223	85444	0.883 4081	16522	0.383 2411	7170
3.5	0.215 7667	85278	0.881 7559	17210	0.382 5241	7469
4.0	0.224 2945	85105	0.880 0349	17896	0.381 7772	7767
4.5	0.232 8050	84926	0.878 2453	18580	0.381 0005	8064
			0.876 3873	19265	0.380 1941	8361
5.0	+ 0.241 2976	84740	-	19949	0.379 3580	8658
5.5	0.249 7716	84549	0.874 4608	20630	0.378 4922	8953
6.0	0.258 2265	84350	0.872 4659	21311	0.377 5969	9247
6.5	0.266 6615	84143	0.870 4029	21989	0.376 6722	9541
7.0	0.275 0758	83929	0.868 2718	22667	0.375 7181	9835
7.5	0.283 4687	83710	0.866 0729	23342	0.374 7346	10129
8.0	0.291 8397	83483	0.863 8062	24016	0.373 7217	10421
8.5	0.300 1880	83248	0.861 4720	24689	0.372 6796	10712
9.0	0.308 5128	83007	0.859 0704	25360	0.371 6084	11003
9.5	0.316 8135	82760	0.856 6015	26027	0.370 5081	11292
10.0	+ 0.325 0895	82505	-	26693	0.369 3789	11581
10.5	0.333 3400	82244	0.851 4628	27356	0.368 2208	11868
11.0	0.341 5644	81975	0.848 7935	28016	0.367 0340	12154
11.5	0.349 7619	81701	0.846 0579	28675	0.365 8186	12440
12.0	0.357 9320	81420	0.843 2563	29331	0.364 5746	12724
12.5	0.366 0740	81131	0.840 3888	29983	0.363 3022	13006
13.0	0.374 1871	80837	0.837 4557	30634	0.362 0016	13288
13.5	0.382 2708	80535	0.834 4574	31282	0.360 6728	13568
14.0	0.390 3243	80228	0.831 3940	31926	0.359 3160	13848
14.5	0.398 3471	79913	0.828 2658	32569	0.357 9312	14126
15.0	+ 0.406 3384	79593	-	33208	0.356 5186	14403
15.5	0.414 2977	79267	0.821 8163	33844	0.355 0783	14679
16.0	0.422 2244	78935	0.818 4955	34477	0.353 6104	14953
16.5	0.430 1179	78597	0.815 1111	35106	0.352 1151	15226
17.0	0.437 9776	78253	0.811 6634	35732	0.350 5925	15497
17.5	0.445 8029	77903	0.808 1528	36354	0.349 0428	15768
18.0	0.453 5932	77548	0.804 5796	36973	0.347 4660	16036
18.5	0.461 3480	77187	0.800 9442	37589	0.345 8624	16304
19.0	0.469 0667		0.797 2469		0.344 2320	
			0.793 4880			

Mittl. Aequator und Mittl. Aequinoctium 1902.0.

1902	X	Red. auf 1900.0	Y	Red. auf 1900.0	Z	Red. auf 1900.0
	+		-		-	
Jan. 19.0	0.469 0667 76820		0.793 4880 3820I		0.344 2320 16570	
19.5	0.476 7487 76448	-4194	0.789 6679 3881I	-2129	0.342 5750 16834	- 926
20.0	0.484 3935 76070		0.785 7868 39417		0.340 8916 17097	
20.5	0.492 0005 75687	4153	0.781 8451 40020	2198	0.339 1819 17359	956
21.0	0.499 5692 75309		0.777 8431 40620		0.337 4460 17619	
21.5	0.507 0991 74905	4110	0.773 7811 41217	2265	0.335 6841 17878	985
22.0	0.514 5896 74507		0.769 6594 41809		0.333 8963 18136	
22.5	0.522 0403 74103	4066	0.765 4785 42398	2331	0.332 0827 18392	1014
23.0	0.529 4506 73694		0.761 2387 42985		0.330 2435 18647	
23.5	0.536 8200 73281	4020	0.756 9402 43568	2397	0.328 3788 18902	1043
	+		-		-	
24.0	0.544 1481 72862		0.752 5834 44149		0.326 4886 19154	
24.5	0.551 4343 72437	-3973	0.748 1685 44727	-2463	0.324 5732 19404	-1072
25.0	0.558 6780 72008		0.743 6958 45301		0.322 6328 19654	
25.5	0.565 8788 71573	3925	0.739 1657 45871	2528	0.320 6674 19901	1100
26.0	0.573 0361 71133		0.734 5786 46439		0.318 6773 20147	
26.5	0.580 1494 70687	3875	0.729 9347 47002	2592	0.316 6626 20393	1127
27.0	0.587 2181 70236		0.725 2345 47563		0.314 6233 20636	
27.5	0.594 2417 69781	3825	0.720 4782 48121	2655	0.312 5597 20879	1155
28.0	0.601 2198 69319		0.715 6661 48676		0.310 4718 21119	
28.5	0.608 1517 68851	3774	0.710 7985 49227	2717	0.308 3599 21359	1182
	+		-		-	
29.0	0.615 0368 68379		0.705 8758 49774		0.306 2240 21596	
29.5	0.621 8747 67901	-3722	0.700 8984 50318	-2778	0.304 0644 21832	-1209
30.0	0.628 6648 67418		0.695 8666 50858		0.301 8812 22067	
30.5	0.635 4066 66930	3668	0.690 7808 51395	2839	0.299 6745 22300	1235
31.0	0.642 0996 66436		0.685 6413 51927		0.297 4445 22530	
31.5	0.648 7432 65937	3613	0.680 4486 52456	2899	0.295 1915 22759	1261
Febr. 1.0	0.655 3369 65433		0.675 2030 52981		0.292 9156 22987	
1.5	0.661 8802 64924	3557	0.669 9049 53501	2957	0.290 6169 23212	1287
2.0	0.668 3726 64409		0.664 5548 54017		0.288 2957 23436	
2.5	0.674 8135 63889	3500	0.659 1531 54529	3015	0.285 9521 23659	1312
	+		-		-	
3.0	0.681 2024 63364		0.653 7002 55037		0.283 5862 23879	
3.5	0.687 5388 62833	-3441	0.648 1965 55541	-3071	0.281 1983 24097	-1337
4.0	0.693 8221 62298		0.642 6424 56040		0.278 7886 24313	
4.5	0.700 0519 61757	3382	0.637 0384 56536	3127	0.276 3573 24529	1361
5.0	0.706 2276 61211		0.631 3848 57027		0.273 9044 24741	
5.5	0.712 3487 60662	3322	0.625 6821 57513	3182	0.271 4303 24952	1385
6.0	0.718 4149 60107		0.619 9308 57994		0.268 9351 25160	
6.5	0.724 4256 59545	3261	0.614 1314 58471	3236	0.266 4191 25366	1409
7.0	0.730 3801		0.608 2843		0.263 8825	

Mittl. Aequator und Mittl. Aequinoctium 1902.0.

1902	X	Red. auf 1900.0	Y	Red. auf 1900.0	Z	Red. auf 1900.0
	+		-		-	
Febr. 7.0	0.730 3801 58980		0.608 2843 58943		0.263 8825 25570	
7.5	0.736 2781 58410	-3198	0.602 3900 59410	-3289	0.261 3255 25773	-1432
8.0	0.742 1191 57835		0.596 4490 59872		0.258 7482 25973	
8.5	0.747 9026 57256	3135	0.590 4618 60330	3341	0.256 1509 26171	1455
9.0	0.753 6282 56673		0.584 4288 60781		0.253 5338 26367	
9.5	0.759 2955 56084	3071	0.578 3507 61228	3392	0.250 8971 26559	1477
10.0	0.764 9039 55492		0.572 2279 61670		0.248 2412 26751	
10.5	0.770 4531 54896	3006	0.566 0609 62105	3442	0.245 5661 26940	1498
11.0	0.775 9427 54295		0.559 8504 62536		0.242 8721 27127	
11.5	0.781 3722 53690	2939	0.553 5968 62961	3491	0.240 1594 27311	1519
	+		-		-	
12.0	0.786 7412 53079		0.547 3007 63381		0.237 4283 27493	
12.5	0.792 0491 52467	-2872	0.540 9626 63796	-3539	0.234 6790 27672	-1540
13.0	0.797 2958 51851		0.534 5830 64205		0.231 9118 27849	
13.5	0.802 4809 51230	2804	0.528 1625 64610	3586	0.229 1269 28025	1560
14.0	0.807 6039 50607		0.521 7015 65008		0.226 3244 28197	
14.5	0.812 6646 49981	2735	0.515 2007 65399	3632	0.223 5047 28368	1580
15.0	0.817 6627 49351		0.508 6608 65786		0.220 6679 28536	
15.5	0.822 5978 48718	2665	0.502 0822 66167	3676	0.217 8143 28701	1599
16.0	0.827 4696 48082		0.495 4655 66543		0.214 9442 28864	
16.5	0.832 2778 47443	2595	0.488 8112 66913	3719	0.212 0578 29026	1618
	+		-		-	
17.0	0.837 0221 46801		0.482 1199 67279		0.209 1552 29185	
17.5	0.841 7022 46155	-2524	0.475 3920 67639	-3761	0.206 2367 29340	-1636
18.0	0.846 3177 45507		0.468 6281 67994		0.203 3027 29495	
18.5	0.850 8684 44858	2452	0.461 8287 68343	3802	0.200 3532 29648	1654
19.0	0.855 3542 44205		0.454 9944 68688		0.197 3884 29797	
19.5	0.859 7747 43549	2379	0.448 1256 69027	3841	0.194 4087 29945	1670
20.0	0.864 1296 42891		0.441 2229 69361		0.191 4142 30091	
20.5	0.868 4187 42230	2305	0.434 2868 69690	3880	0.188 4051 30233	1687
21.0	0.872 6417 41566		0.427 3178 70014		0.185 3818 30374	
21.5	0.876 7983 40899	2231	0.420 3164 70332	3918	0.182 3444 30513	1704
	+		-		-	
22.0	0.880 8882 40230		0.413 2832 70646		0.179 2931 30649	
22.5	0.884 9112 39558	-2156	0.406 2186 70954	-3955	0.176 2282 30784	-1720
23.0	0.888 8670 38883		0.399 1232 71258		0.173 1498 30916	
23.5	0.892 7553 38206	2080	0.391 9974 71557	3990	0.170 0582 31044	1735
24.0	0.896 5759 37526		0.384 8417 71850		0.166 9538 31172	
24.5	0.900 3285 36844	2004	0.377 6567 72139	4024	0.163 8366 31298	1750
25.0	0.904 0129 36159		0.370 4428 72422		0.160 7068 31421	
25.5	0.907 6288 35470	1928	0.363 2006 72699	4056	0.157 5647 31541	1764
26.0	0.911 1758		0.355 9307		0.154 4106	

Mittl. Aequator und Mittl. Aequinoctium 1902.o.

1902	X	Red. auf 1900.o	Y	Red. auf 1900.o	Z	Red. auf 1900.o
	+		-		-	
Febr. 26.0	0.911 1758 34779		0.355 9307 72972		0.154 4106 31660	
26.5	0.914 6537 34087	-1851	0.348 6335 73239	-4088	0.151 2446 31776	-1778
27.0	0.918 0624 33391		0.341 3096 73501		0.148 0670 31889	
27.5	0.921 4015 32693	1773	0.333 9595 73757	4118	0.144 8781 32001	1791
28.0	0.924 6708 31993		0.326 5838 74008		0.141 6780 32109	
28.5	0.927 8701 31290	1695	0.319 1830 74254	4147	0.138 4671 32216	1804
März 1.0	0.930 9991 30586		0.311 7576 74493		0.135 2455 32320	
1.5	0.934 0577 29878	1616	0.304 3083 74727	4174	0.132 0135 32421	1816
2.0	0.937 0455 29166		0.296 8356 74956		0.128 7714 32520	
2.5	0.939 9621 28452	1537	0.289 3400 75179	4201	0.125 5194 32616	1827
	+		-		-	
3.0	0.942 8073 27737		0.281 8221 75396		0.122 2578 32710	
3.5	0.945 5810 27026	-1457	0.274 2825 75608	-4226	0.118 9868 32802	-1838
4.0	0.948 2830 26302		0.266 7217 75814		0.115 7066 32891	
4.5	0.950 9132 25580	1376	0.259 1403 76014	4250	0.112 4175 32977	1848
5.0	0.953 4712 24857		0.251 5389 76208		0.109 1198 33061	
5.5	0.955 9569 24132	1295	0.243 9181 76397	4272	0.105 8137 33142	1858
6.0	0.958 3701 23404		0.236 2784 76579		0.102 4995 33221	
6.5	0.960 7105 22675	1214	0.228 6205 76755	4293	0.099 1774 33297	1867
7.0	0.962 9780 21943		0.220 9450 76925		0.095 8477 33371	
7.5	0.965 1723 21210	1132	0.213 2525 77088	4313	0.092 5106 33441	1876
	+		-		-	
8.0	0.967 2933 20475		0.205 5437 77246		0.089 1665 33509	
8.5	0.969 3408 19738	-1050	0.197 8191 77397	-4331	0.085 8156 33575	-1884
9.0	0.971 3146 19001		0.190 0794 77542		0.082 4581 33638	
9.5	0.973 2147 18263	968	0.182 3252 77681	4349	0.079 0943 33697	1892
10.0	0.975 0410 17523		0.174 5571 77813		0.075 7246 33754	
10.5	0.976 7933 16782	885	0.166 7758 77938	4365	0.072 3492 33809	1899
11.0	0.978 4715 16040		0.158 9820 78058		0.068 9683 33860	
11.5	0.980 0755 15298	802	0.151 1762 78172	4380	0.065 5823 33909	1905
12.0	0.981 6053 14554		0.143 3590 78279		0.062 1914 33955	
12.5	0.983 0607 13809	719	0.135 5311 78379	4393	0.058 7959 33998	1911
	+		-		-	
13.0	0.984 4416 13065		0.127 6932 78473		0.055 3961 34039	
13.5	0.985 7481 12320	-636	0.119 8459 78560	-4405	0.051 9922 34076	-1916
14.0	0.986 9801 11574		0.111 9899 78640		0.048 5846 34111	
14.5	0.988 1375 10829	553	0.104 1259 78716	4416	0.045 1735 34145	1921
15.0	0.989 2204 10084		0.096 2543 78784		0.041 7590 34175	
15.5	0.990 2288 9338	469	0.088 3759 78845	4426	0.038 3415 34202	1925
16.0	0.991 1626 8593		0.080 4914 78902		0.034 9213 34227	
16.5	0.992 0219 7848	385	0.072 6012 78952	4434	0.031 4986 34249	1928
17.0	0.992 8067		0.064 7060		0.028 0737	

Mittl. Aequator und Mittl. Aequinoctium 1902.0.

1902	X	Red. auf 1900.0	Y	Red. auf 1900.0	Z	Red. auf 1900.0
März 17.0	+ 0.992 8067	7103	- 0.064 7060	78997	- 0.028 0737	34268
17.5	0.993 5170	6359	0.056 8063	79035	0.024 6469	34286
18.0	0.994 1529	5615	0.048 9028	79068	0.021 2183	34300
18.5	0.994 7144	4872	0.040 9960	79096	0.017 7883	34312
19.0	0.995 2016	4129	0.033 0864	79117	0.014 3571	34322
19.5	0.995 6145	3386	0.025 1747	79132	0.010 9249	34329
20.0	0.995 9531	2643	0.017 2615	79143	0.007 4920	34334
20.5	0.996 2174	1901	0.009 3472	79147	0.004 0586	34336
21.0	0.996 4075		0.001 4325		0.000 6250	
	+ 1159		+ 79146		+ 34336	
21.5	0.996 5234		0.006 4821	4453	0.002 8086	1937
	+ 417	+ 36	+ 79139		+ 34334	
22.0	0.996 5651	323	0.014 3960	79127	0.006 2420	34329
22.5	0.996 5328	1063	0.022 3087	79109	0.009 6749	34321
23.0	0.996 4265	1803	0.030 2196	79086	0.013 1070	34311
23.5	0.996 2462	2541	0.038 1282	79057	0.016 5381	34300
24.0	0.995 9921	3280	0.046 0339	79024	0.019 9681	34285
24.5	0.995 6641	4020	0.053 9363	78984	0.023 3966	34268
25.0	0.995 2621	4758	0.061 8347	78939	0.026 8234	34248
25.5	0.994 7863	5495	0.069 7286	78889	0.030 2482	34227
26.0	0.994 2368	6232	0.077 6175	78833	0.033 6709	34203
26.5	0.993 6136	6969	0.085 5008	78771	0.037 0912	34176
	+ 7706		+ 78704		+ 34146	
27.0	0.992 9167	8441	0.093 3779	78704	0.040 5088	34115
27.5	0.992 1461	9176	0.101 2483	78631	0.043 9234	34081
28.0	0.991 3020	9911	0.109 1114	78553	0.047 3349	34044
28.5	0.990 3844	10644	0.116 9667	78470	0.050 7430	34005
29.0	0.989 3933	11377	0.124 8137	78380	0.054 1474	33964
29.5	0.988 3289	12108	0.132 6517	78285	0.057 5479	33920
30.0	0.987 1912	12838	0.140 4802	78184	0.060 9443	33873
30.5	0.985 9804	13568	0.148 2986	78077	0.064 3363	33824
31.0	0.984 6966		0.156 1063	77965	0.067 7236	
31.5	0.983 3398		0.163 9028		0.071 1060	
	+ 14297		+ 77847		+ 33773	
April 1.0	0.981 9101	15025	0.171 6875	77723	0.074 4833	33719
1.5	0.980 4076	15753	0.179 4598	77594	0.077 8552	33662
2.0	0.978 8323	16479	0.187 2192	77459	0.081 2214	33603
2.5	0.977 1844	17203	0.194 9651	77318	0.084 5817	33542
3.0	0.975 4641	17927	0.202 6969	77171	0.087 9359	33478
3.5	0.973 6714	18650	0.210 4140	77019	0.091 2837	33410
4.0	0.971 8064	19370	0.218 1159	76860	0.094 6247	33341
4.5	0.969 8694	20090	0.225 8019	76696	0.097 9588	33270
5.0	0.967 8604		0.233 4715		0.101 2858	

Mittl. Aequator und Mittl. Aequinoctium 1902.0.

1902	X	Red. auf 1900.0	Y	Red. auf 1900.0	Z	Red. auf 1900.0
April 5.0	+ 0.967 8604 20808		+ 0.233 4715 76525		+ 0.101 2858 33196	
5.5	0.965 7796 21526	+1282	0.241 1240 76349	-4316	0.104 6054 33119	-1877
6.0	0.963 6270 22241		0.248 7589 76166		0.107 9173 33040	
6.5	0.961 4029 22954	1363	0.256 3755 75978	4296	0.111 2213 32957	1869
7.0	0.959 1075 23665		0.263 9733 75783		0.114 5170 32873	
7.5	0.956 7410 24374	1443	0.271 5516 75582	4275	0.117 8043 32786	1860
8.0	0.954 3036 25081		0.279 1098 75375		0.121 0829 32696	
8.5	0.951 7955 25785	1523	0.286 6473 75163	4252	0.124 3525 32603	1850
9.0	0.949 2170 26487		0.294 1636 74944		0.127 6128 32508	
9.5	0.946 5683 27186	1603	0.301 6580 74720	4229	0.130 8636 32411	1840
10.0	+ 0.943 8497 27883		+ 0.309 1300 74490		+ 0.134 1047 32311	
10.5	0.941 0614 28577	+1683	0.316 5790 74254	-4205	0.137 3358 32209	-1829
11.0	0.938 2037 29269		0.324 0044 74013		0.140 5567 32104	
11.5	0.935 2768 29957	1762	0.331 4057 73765	4179	0.143 7671 31998	1818
12.0	0.932 2811 30642		0.338 7822 73512		0.146 9669 31888	
12.5	0.929 2169 31325	1840	0.346 1334 73255	4151	0.150 1557 31777	1806
13.0	0.926 0844 32004		0.353 4589 72991		0.153 3334 31663	
13.5	0.922 8840 32680	1917	0.360 7580 72723	4123	0.156 4997 31546	1794
14.0	0.919 6160 33352		0.368 0303 72449		0.159 6543 31428	
14.5	0.916 2808 34021	1994	0.375 2752 72170	4094	0.162 7971 31308	1781
15.0	+ 0.912 8787 34687		+ 0.382 4922 71887		+ 0.165 9279 31185	
15.5	0.909 4100 35351	+2071	0.389 6809 71598	-4064	0.169 0464 31060	-1768
16.0	0.905 8749 36010		0.396 8407 71305		0.172 1524 30933	
16.5	0.902 2739 36667	2147	0.403 9712 71007	4032	0.175 2457 30805	1754
17.0	0.898 6072 37320		0.411 0719 70704		0.178 3262 30674	
17.5	0.894 8752 37969	2222	0.418 1423 70397	3999	0.181 3936 30541	1740
18.0	0.891 0783 38616		0.425 1820 70085		0.184 4477 30406	
18.5	0.887 2167 39260	2296	0.432 1905 69768	3965	0.187 4883 30269	1725
19.0	0.883 2907 39901		0.439 1673 69447		0.190 5152 30130	
19.5	0.879 3006 40538	2370	0.446 1120 69121	3930	0.193 5282 29989	1710
20.0	+ 0.875 2468 41172		+ 0.453 0241 68791		+ 0.196 5271 29846	
20.5	0.871 1296 41803	+2443	0.459 9032 68457	-3893	0.199 5117 29701	-1694
21.0	0.866 9493 42430		0.466 7489 68117		0.202 4818 29554	
21.5	0.862 7063 43055	2516	0.473 5606 67774	3855	0.205 4372 29405	1677
22.0	0.858 4008 43676		0.480 3380 67426		0.208 3777 29254	
22.5	0.854 0332 44295	2588	0.487 0806 67074	3816	0.211 3031 29102	1660
23.0	0.849 6037 44910		0.493 7880 66717		0.214 2133 28947	
23.5	0.845 1127 45522	2659	0.500 4597 66356	3776	0.217 1080 28790	1643
24.0	0.840 5605		0.507 0953		0.219 9870	

Mittl. Aequator und Mittl. Aequinoctium 1902.0.

1902	X	Red. auf 1900.0	Y	Red. auf 1900.0	Z	Red. auf 1900.0
	+		+		+	
April 24.0	0.840 5605 46130		0.507 0953 65990		0.219 9870 28631	
24.5	0.835 9475 46735	+2729	0.513 6943 65620	-3735	0.222 8501 28470	-1625
25.0	0.831 2740 47337		0.520 2563 65245		0.225 6971 28307	
25.5	0.826 5403 47996	2799	0.526 7808 64866	3693	0.228 5278 28142	1607
26.0	0.821 7467 48531		0.533 2674 64483		0.231 3420 27976	
26.5	0.816 8936 49122	2868	0.539 7157 64094	3650	0.234 1396 27807	1588
27.0	0.811 9814 49710		0.546 1251 63701		0.236 9203 27637	
27.5	0.807 0104 50295	2936	0.552 4952 63306	3606	0.239 6840 27464	1569
28.0	0.801 9809 50876		0.558 8258 62904		0.242 4304 27290	
28.5	0.796 8933 51455	3003	0.565 1162 62498	3561	0.245 1594 27114	1549
	+		+		+	
29.0	0.791 7478 52029		0.571 3660 62088		0.247 8708 26926	
29.5	0.786 5449 52599	+3069	0.577 5748 61674	-3514	0.250 5644 26755	-1529
30.0	0.781 2850 53166		0.583 7422 61255		0.253 2399 26573	
30.5	0.775 9684 53731	3134	0.589 8677 60832	3467	0.255 8972 26390	1508
Mai 1.0	0.770 5953 54291		0.595 9509 60404		0.258 5362 26203	
1.5	0.765 1662 54846	3198	0.601 9913 59971	3420	0.261 1565 26014	1487
2.0	0.759 6816 55398		0.607 9884 59534		0.263 7579 25825	
2.5	0.754 1418 55947	3262	0.613 9418 59093	3371	0.266 3404 25633	1466
3.0	0.748 5471 56491		0.619 8511 58647		0.268 9037 25439	
3.5	0.742 8980 57031	3324	0.625 7158 58196	3321	0.271 4476 25244	1444
	+		+		+	
4.0	0.737 1949 57567		0.631 5354 57742		0.273 9720 25046	
4.5	0.731 4382 58098	+3386	0.637 3096 57282	-3270	0.276 4766 24847	-1422
5.0	0.725 6284 58625		0.643 0378 56818		0.278 9613 24645	
5.5	0.719 7659 59147	3447	0.648 7196 56350	3218	0.281 4258 24442	1400
6.0	0.713 8512 59665		0.654 3546 55877		0.283 8700 24237	
6.5	0.707 8847 60179	3506	0.659 9423 55399	3164	0.286 2937 24029	1377
7.0	0.701 8668 60688		0.665 4822 54918		0.288 6966 23821	
7.5	0.695 7980 61191	3564	0.670 9740 54433	3110	0.291 0787 23610	1353
8.0	0.689 6789 61690		0.676 4173 53944		0.293 4397 23398	
8.5	0.683 5099 62183	3622	0.681 8117 53450	3055	0.295 7795 23185	1329
	+		+		+	
9.0	0.677 2916 62671		0.687 1567 52952		0.298 0980 22969	
9.5	0.671 0245 63154	+3679	0.692 4519 52451	-3000	0.300 3949 22751	-1305
10.0	0.664 7091 63631		0.697 6970 51945		0.302 6700 22532	
10.5	0.658 3460 64104	3734	0.702 8915 51436	2943	0.304 9232 22312	1280
11.0	0.651 9356 64571		0.708 0351 50923		0.307 1544 22090	
11.5	0.645 4785 65032	3789	0.713 1274 50408	2885	0.309 3634 21867	1255
12.0	0.638 9753 65489		0.718 1682 49889		0.311 5501 21642	
12.5	0.632 4264 65940	3842	0.723 1571 49367	2827	0.313 7143 21416	1229
13.0	0.625 8324		0.728 0938		0.315 8559	

Mittl. Aequator und Mittl. Aequinoctium 1902.0.

1902		X	Red. auf 1900.0	Y	Red. auf 1900.0	Z	Red. auf 1900.0	
Mai	13.0	+ 0.625 8324		+ 0.728 0938		+ 0.315 8559		
	13.5	66386 0.619 1938	+3894	48842 0.732 9780	-2768	21189 0.317 9748	-1203	
	14.0	66827 0.612 5111		48314 0.737 8094		20960 0.320 0708		
	14.5	67262 0.605 7849	3945	47783 0.742 5877	2709	20730 0.322 1438	1177	
	15.0	67693 0.599 0156		47249 0.747 3126		20499 0.324 1937		
	15.5	68118 0.592 2038	3995	46713 0.751 9839	2648	20267 0.326 2204	1151	
	16.0	68537 0.585 3501		46175 0.756 6014		20033 0.328 2237		
	16.5	68951 0.578 4550	4044	45633 0.761 1647	2586	19799 0.330 2036	1124	
	17.0	69361 0.571 5189		45087 0.765 6734		19562 0.332 1598		
	17.5	69766 0.564 5423	4092	44539 0.770 1273	2524	19325 0.334 0923	1097	
			+ 70165		+ 43990		+ 19087	
	18.0	0.557 5258	70560		0.774 5263		0.336 0010	
	18.5	0.550 4698	70949	+4139	43437 0.778 8700	-2461	18847 0.337 8857	-1070
	19.0	0.543 3749	71334		42881 0.783 1581		18606 0.339 7463	
	19.5	0.536 2415	71713	4184	42324 0.787 3905	2397	18364 0.341 5827	1042
	20.0	0.529 0702	72088		41764 0.791 5669		18121 0.343 3948	
	20.5	0.521 8614	72457	4228	41202 0.795 6871	2333	17877 0.345 1825	1014
	21.0	0.514 6157	72822		40636 0.799 7507		17632 0.346 9457	
	21.5	0.507 3335	73182	4271	40068 0.803 7575	2268	17386 0.348 6843	986
	22.0	0.500 0153	73536		39499 0.807 7074		17139 0.350 3982	
	22.5	0.492 6617	73886	4313	38927 0.811 6001	2202	16890 0.352 0872	958
			+ 73886		+ 38351		+ 16640	
	23.0	0.485 2731	74230		0.815 4352		0.353 7512	
	23.5	0.477 8501	74569	+4353	37774 0.819 2126	-2136	16389 0.355 3901	-929
	24.0	0.470 3932	74903		37194 0.822 9320		16137 0.357 0038	
	24.5	0.462 9029	75233	4391	36611 0.826 5931	2070	15884 0.358 5922	900
	25.0	0.455 3796	75558		36026 0.830 1957		15631 0.360 1553	
	25.5	0.447 8238	75876	4429	35439 0.833 7396	2003	15376 0.361 6929	871
	26.0	0.440 2362	76190		34849 0.837 2245		15119 0.363 2048	
	26.5	0.432 6172	76500	4466	34257 0.840 6502	1935	14862 0.364 6910	841
	27.0	0.424 9672	76804		33662 0.844 0164		14604 0.366 1514	
	27.5	0.417 2868	77103	4501	33065 0.847 3229	1866	14345 0.367 5859	811
			+ 77103		+ 32467		+ 14084	
28.0	0.409 5765	77397		0.850 5696		0.368 9943		
28.5	0.401 8368	77685	+4535	31866 0.853 7562	-1797	13823 0.370 3766	-781	
29.0	0.394 0683	77969		31262 0.856 8824		13561 0.371 7327		
29.5	0.386 2714	78246	4568	30655 0.859 9479	1728	13297 0.373 0624	751	
30.0	0.378 4468	78519		30047 0.862 9526		13033 0.374 3657		
30.5	0.370 5949	78785	4600	29436 0.865 8962	1658	12768 0.375 6425	720	
31.0	0.362 7164	79046		28823 0.868 7785		12501 0.376 8926		
31.5	0.354 8118	79303	4630	28207 0.871 5992	1587	12234 0.378 1160	690	
		+ 79303		+ 27590		+ 11966		
Juni	1.0	0.346 8815		0.874 3582		0.379 3126		

Mittl. Aequator und Mittl. Aequinoctium 1902.o.

1902	X	Red. auf 1900.o	Y	Red. auf 1900.o	Z	Red. auf 1900.o
Juni						
1.0	+ 0.346 8815 79553		+ 0.874 3582 26970		+ 0.379 3126 11697	
1.5	0.338 9262 79798	+4659	0.877 0552 26348	-1516	0.380 4823 11426	-659
2.0	0.330 9464 80037		0.879 6900 25722		0.381 6249 11155	
2.5	0.322 9427 80269	4687	0.882 2622 25095	1444	0.382 7404 10883	628
3.0	0.314 9158 80496		0.884 7717 24466		0.383 8287 10610	
3.5	0.306 8662 80718	4714	0.887 2183 23834	1372	0.384 8897 10336	597
4.0	0.298 7944 80933		0.889 6017 23201		0.385 9233 10062	
4.5	0.290 7011 81140	4739	0.891 9218 22567	1300	0.386 9295 9786	566
5.0	0.282 5871 81342		0.894 1785 21930		0.387 9081 9511	
5.5	0.274 4529 81538	4762	0.896 3715 21292	1227	0.388 8592 9234	534
6.0	+ 0.266 2991 81727		+ 0.898 5007 20652		+ 0.389 7826 8957	
6.5	0.258 1264 81911	+4784	0.900 5659 20011	-1154	0.390 6783 8679	-502
7.0	0.249 9353 82087		0.902 5670 19368		0.391 5462 8401	
7.5	0.241 7266 82257	4805	0.904 5038 18723	1081	0.392 3863 8121	470
8.0	0.233 5009 82421		0.906 3761 18078		0.393 1984 7842	
8.5	0.225 2588 82578	4824	0.908 1839 17432	1008	0.393 9826 7562	438
9.0	0.217 0010 82729		0.909 9271 16785		0.394 7388 7282	
9.5	0.208 7281 82875	4843	0.911 6056 16138	934	0.395 4670 7001	406
10.0	0.200 4406 83013		0.913 2194 15489		0.396 1671 6720	
10.5	0.192 1393 83144	4860	0.914 7683 14840	860	0.396 8391 6439	374
11.0	+ 0.183 8249 83270		+ 0.916 2523 14191		+ 0.397 4830 6158	
11.5	0.175 4979 83391	+4875	0.917 6714 13541	-785	0.398 0988 5876	-342
12.0	0.167 1588 83505		0.919 0255 12891		0.398 6864 5595	
12.5	0.158 8083 83612	4889	0.920 3146 12241	711	0.398 6864 5313	309
13.0	0.150 4471 83714		0.921 5387 11590		0.399 7772 5031	
13.5	0.142 0757 83812	4901	0.922 6977 10939	636	0.400 2803 4749	276
14.0	0.133 6945 83902		0.923 7916 10288		0.400 7552 4466	
14.5	0.125 3043 83986	4912	0.924 8204 9636	561	0.401 2018 4183	243
15.0	0.116 9057 84065		0.925 7840 8984		0.401 6201 3901	
15.5	0.108 4992 84139	4922	0.926 6824 8332	486	0.402 0102 3618	210
16.0	+ 0.100 0853 84206		+ 0.927 5156 7679		+ 0.402 3720 3335	
16.5	0.091 6647 84268	+4930	0.928 2835 7027	-411	0.402 7055 3051	-177
17.0	0.083 2379 84324		0.928 9862 6374		0.403 0106 2768	
17.5	0.074 8055 84375	4937	0.929 6236 5721	335	0.403 2874 2485	145
18.0	0.066 3680 84420		0.930 1957 5067		0.403 5359 2202	
18.5	0.057 9260 84458	4943	0.930 7024 4415	259	0.403 7561 1918	112
19.0	0.049 4802 84492		0.931 1439 3763		0.403 9479 1635	
19.5	0.041 0310 84520	4948	0.931 5202 3109	184	0.404 1114 1351	89
20.0	0.032 5790		0.931 8311		0.404 2465	

Mittl. Aequator und Mittl. Aequinoctium 1902.o.

1902	X	Red. auf 1900.o	Y	Red. auf 1900.o	Z	Red. auf 1900.o
	+		+		+	
Juni 20.0	0.032 5790 84542		0.931 8311 2456		0.404 2465 1067	
20.5	0.024 1248 84560	+4951	0.932 0767 1803	- 108	0.404 3532 784	- 56
21.0	0.015 6688 84571		0.932 2570 1149		0.404 4316 500	
21.5	0.007 2117 84577	4952	0.932 3719 496	- 33	0.404 4816 216	- 14
22.0	0.001 2460 84577		+		+	
22.5	0.009 7037 84571	4952	0.932 4215 158		0.404 5032 68	
23.0	0.018 1608 84560		0.932 4057 812	+ 43	0.404 4964 352	+ 19
23.5	0.026 6168 84544	4951	0.932 3245 1465		0.404 4612 635	
24.0	0.035 0712 84522		0.932 1780 2119	118	0.404 3977 920	52
24.5	0.043 5234 84493	4948	0.931 9661 2772		0.404 3057 1204	
25.0	0.043 5234 84493		0.931 6889 3426	193	0.404 1853 1487	85
25.0	0.051 9727 84460		+		+	
25.5	0.060 4187 84421	+4945	0.931 3463 4080		0.404 0366 1771	
26.0	0.068 8608 84376		0.930 9383 4733	+ 269	0.403 8595 2055	+117
26.5	0.077 2984 84325	4940	0.930 4650 5387		0.403 6540 2339	
27.0	0.085 7309 84269		0.929 9263 6040	344	0.403 4201 2623	150
27.5	0.094 1578 84207	4933	0.929 3223 6694		0.403 1578 2906	
28.0	0.102 5785 84139		0.928 6529 7347	419	0.402 8672 3190	183
28.5	0.110 9924 84065	4925	0.927 9182 8000		0.402 5482 3474	
29.0	0.119 3989 83985		0.927 1182 8653	495	0.402 2008 3757	216
29.5	0.127 7974 83899	4915	0.926 2529 9306		0.401 8251 4041	
30.0	0.127 7974 83899		0.925 3223 9960	570	0.401 4210 4324	248
30.0	0.136 1873 83807		+		+	
30.5	0.144 5680 83709	+4904	0.924 3263 10612		0.400 9886 4607	
Juli 1.0	0.144 5680 83709		0.923 2651 11265	+ 645	0.400 5279 4890	+281
1.5	0.152 9389 83604		0.922 1386 11916		0.400 0389 5173	
2.0	0.161 2993 83494	4892	0.920 9470 12568		0.399 5216 5455	314
2.5	0.169 6487 83377		0.919 6902 13219	720	0.398 9761 5737	
3.0	0.177 9864 83254	4878	0.918 3683 13869		0.398 4024 6019	346
3.5	0.186 3118 83124		0.916 9814 14517		0.397 8005 6300	
4.0	0.194 6242 82989	4863	0.915 5297 15165		0.397 1705 6581	378
4.5	0.202 9231 82846		0.914 0132 15813	869	0.396 5124 6862	
5.0	0.211 2077 82697	4847	0.912 4319 16459		0.395 8262 7142	410
5.0	0.211 2077 82697		+		+	
5.0	0.219 4774 82541		0.910 7860 17105		0.395 1120 7422	
5.5	0.227 7315 82380	+4829	0.909 0755 17749	+1016	0.394 3698 7700	+442
6.0	0.235 9695 82212		0.907 3006 18392		0.393 5998 7979	
6.5	0.244 1907 82037	4810	0.905 4614 19032		0.392 8019 8256	474
7.0	0.252 3944 81857		0.903 5582 19672		0.391 9763 8533	
7.5	0.260 5801 81670	4789	0.901 5910 20310		0.391 1230 8810	506
8.0	0.268 7471 81477		0.899 5600 20946		0.390 2420 9085	
8.5	0.276 8948 81278	4767	0.897 4654 21579		0.389 3335 9360	538
9.0	0.285 0226		0.895 3075	1236	0.388 3975	

Mittl. Aequator und Mittl. Aequinoctium 1902.o.

1902	X	Red. auf 1900.o	Y	Red. auf 1900.o	Z	Red. auf 1900.o
Juli 9.0	0.285 0226 81073		+		+	
9.5	0.293 1299 80863	+4743	0.895 3075 22211		0.388 3975 9634	
10.0	0.301 2162 80647		0.893 0864 22840	+1309	0.387 4341 9906	+ 570
10.5	0.309 2809 80425	4718	0.890 8024 23468		0.386 4435 10178	601
11.0	0.317 3234 80198		0.888 4556 24094	1381	0.385 4257 10450	
11.5	0.325 3432 79965	4693	0.886 0462 24718		0.384 3807 10720	
12.0	0.333 3397 79727		0.883 5744 25339	1453	0.383 3087 10989	632
12.5	0.341 3124 79482	4666	0.881 0405 25958		0.382 2098 11258	
13.0	0.349 2606 79233		0.878 4447 26575	1525	0.381 0840 11525	663
13.5	0.357 1839 78978	4637	0.875 7872 27190		0.379 9315 11792	
14.0	0.365 0817 78718		0.873 0682 27802	1596	0.378 7523 12058	694
14.5	0.372 9535 78454	+4607	+		+	
15.0	0.380 7989 78183		0.870 2880 28413	+1666	0.377 5465 12323	+ 725
15.5	0.388 6172 77907	4576	0.867 4467 29021		0.376 3142 12587	
16.0	0.396 4079 77627		0.864 5446 29628	1736	0.375 0555 12850	755
16.5	0.404 1706 77341	4544	0.861 5818 30233		0.373 7705 13113	
17.0	0.411 9047 77050		0.858 5585 30835	1805	0.372 4592 13374	785
17.5	0.419 6097 76754	4510	0.855 4750 31435		0.371 1218 13634	
18.0	0.427 2851 76453		0.852 3315 32032	1874	0.369 7584 13894	815
18.5	0.434 9304 76146	4475	0.849 1283 32627		0.368 3690 14152	
19.0	0.442 5450 75835		0.845 8656 33220	1942	0.366 9538 14409	845
19.5	0.450 1285 75519	+4439	0.842 5436 33809		0.365 5129 14666	
20.0	0.457 6804 75197		+		+	
20.5	0.465 2001 74871	4402	0.839 1627 34397	+2010	0.364 0463 14921	+ 875
21.0	0.472 6872 74540		0.835 7230 34983		0.362 5542 15176	
21.5	0.480 1412 74204	4363	0.832 2247 35566	2077	0.361 0366 15429	904
22.0	0.487 5616 73863		0.828 6681 36148		0.359 4937 15682	
22.5	0.494 9479 73518	4323	0.825 0533 36727	2143	0.357 9255 15935	933
23.0	0.502 2997 73167		0.821 3806 37303		0.356 3322 16184	
23.5	0.509 6164 72810	4281	0.817 6503 37877	2210	0.354 7138 16433	962
24.0	0.516 8974 72449		0.813 8626 38450		0.353 0705 16682	
24.5	0.524 1423 72083	+4239	0.810 0176 39020	2276	0.351 4023 16929	991
25.0	0.531 3506 71712		0.806 1156 39587		+	
25.5	0.538 5218 71336	4195	+		+	
26.0	0.545 6554 70955		0.802 1569 40152	+2341	0.347 9918 17422	+1019
26.5	0.552 7509 70568	4150	0.798 1417 40716		0.346 2496 17667	
27.0	0.559 8077 70177		0.794 0701 41277	2415	0.344 4829 17910	1047
27.5	0.566 8254 69780	4105	0.789 9424 41834		0.342 6919 18151	
28.0	0.573 8034		0.785 7590 42390	2469	0.340 8768 18392	1075
			0.781 5200 42943		0.339 0376 18632	
			0.777 2257 43494	2532	0.337 1744 18872	1102
			0.772 8763 44042		0.335 2872 19110	
			0.768 4721		0.333 3762	

Mittl. Aequator und Mittl. Aequinoctium 1902.0.

1902	X	Red. auf 1900.0	Y	Red. auf 1900.0	Z	Red. auf 1900.0
	—		+		+	
Juli 28.0	0.573 8034 69378		0.768 4721 44588		0.333 3762 19346	
28.5	0.580 7412 68970	+4058	0.764 0133 45130	+2594	0.331 4416 19582	+1129
29.0	0.587 6382 68558		0.759 5003 45671		0.329 4834 19816	
29.5	0.594 4940 68139	4009	0.754 9332 46208	2656	0.327 5018 20049	1156
30.0	0.601 3079 67716		0.750 3124 46743		0.325 4969 20281	
30.5	0.608 0795 67287	3959	0.745 6381 47275	2716	0.323 4688 20510	1182
31.0	0.614 8082 66853		0.740 9106 47802		0.321 4178 20739	
31.5	0.621 4935 66414	3909	0.736 1304 48327	2776	0.319 3439 20967	1208
Aug. 1.0	0.628 1349 65969		0.731 2977 48849		0.317 2472 21192	
1.5	0.634 7318 65519	3858	0.726 4128 49367	2835	0.315 1280 21417	1234
	—		+		+	
2.0	0.641 2837 65064		0.721 4761 49882		0.312 9863 21640	
2.5	0.647 7901 64603	+3805	0.716 4879 50392	+2893	0.310 8223 21861	+1259
3.0	0.654 2504 64136		0.711 4487 50900		0.308 6362 22081	
3.5	0.660 6640 63665	3751	0.706 3587 51404	2951	0.306 4281 22299	1284
4.0	0.667 0305 63190		0.701 2183 51904		0.304 1982 22515	
4.5	0.673 3495 62708	3696	0.696 0279 52400	3008	0.301 9467 22731	1309
5.0	0.679 6203 62222		0.690 7879 52892		0.299 6736 22944	
5.5	0.685 8425 61732	3640	0.685 4987 53380	3064	0.297 3792 23154	1333
6.0	0.692 0157 61237		0.680 1607 53864		0.295 0638 23364	
6.5	0.698 1394 60737	3583	0.674 7743 54342	3119	0.292 7274 23571	1357
	—		+		+	
7.0	0.704 2131 60233		0.669 3401 54817		0.290 3703 23777	
7.5	0.710 2364 59726	+3525	0.663 8584 55287	+3173	0.287 9926 23981	+1381
8.0	0.716 2090 59214		0.658 3297 55753		0.285 5945 24183	
8.5	0.722 1304 58697	3466	0.652 7544 56215	3226	0.283 1762 24384	1404
9.0	0.728 0001 58177		0.647 1329 56673		0.280 7378 24583	
9.5	0.733 8178 57652	3406	0.641 4656 57127	3278	0.278 2795 24779	1427
10.0	0.739 5830 57124		0.635 7529 57576		0.275 8016 24975	
10.5	0.745 2954 56592	3345	0.629 9953 58022	3330	0.273 3041 25168	1449
11.0	0.750 9546 56056		0.624 1931 58463		0.270 7873 25359	
11.5	0.756 5602 55515	3283	0.618 3468 58899	3380	0.268 2514 25549	1471
	—		+		+	
12.0	0.762 1117 54972		0.612 4569 59332		0.265 6965 25737	
12.5	0.767 6089 54424	+3220	0.606 5237 59760	+3429	0.263 1228 25922	+1492
13.0	0.773 0513 53873		0.600 5477 60185		0.260 5306 26107	
13.5	0.778 4386 53318	3156	0.594 5292 60604	3477	0.257 9199 26289	1513
14.0	0.783 7704 52759		0.588 4688 61020		0.255 2910 26470	
14.5	0.789 0463 52198	3092	0.582 3668 61431	3525	0.252 6440 26649	1534
15.0	0.794 2661 51632		0.576 2237 61839		0.249 9791 26826	
15.5	0.799 4293 51063	3026	0.570 0398 62242	3572	0.247 2965 27001	1554
16.0	0.804 5356		0.563 8156		0.244 5964	

Mittl. Aequator und Mittl. Aequinoctium 1902.o.

1902	X	Red. auf 1900.o	Y	Red. auf 1900.o	Z	Red. auf 1900.o
Aug. 16.0	0.804 5356 50491		+		+	
16.5	0.809 5847 49916	+2960	0.563 8156 62641		0.244 5964 27174	
17.0	0.814 5763 49337		0.557 5515 63034	+3618	0.241 8790 27346	+1574
17.5	0.819 5100 48754	2893	0.551 2481 63424		0.239 1444 27515	
18.0	0.824 3854 48169		0.544 9057 63810	3662	0.236 3929 27682	1593
18.5	0.829 2023 47580	2826	0.538 5247 64191		0.233 6247 27848	
19.0	0.833 9603 46988		0.532 1056 64569	3705	0.230 8399 28013	1612
19.5	0.838 6591 46393	2757	0.525 6487 64942		0.228 0386 28175	
20.0	0.843 2984 45794		0.519 1545 65311	3747	0.225 2211 28336	1630
20.5	0.847 8778 45191	2687	0.512 6234 65677		0.222 3875 28494	
21.0	0.852 3969 44586		0.506 0557 66037	3788	0.219 5381 28651	1648
21.5	0.856 8555 43978	+2616	+		+	
22.0	0.861 2533 43365		0.499 4520 66394		0.216 6730 28806	
22.5	0.865 5898 42750	2545	0.492 8126 66746	+3828	0.213 7924 28958	+1666
23.0	0.869 8648 42132		0.486 1380 67095		0.210 8966 29110	
23.5	0.874 0780 41509	2473	0.479 4285 67438	3868	0.207 9856 29259	1683
24.0	0.878 2289 40884		0.472 6847 67778		0.205 0597 29407	
24.5	0.882 3173 40255	2401	0.465 9069 68113	3906	0.202 1190 29553	1700
25.0	0.886 3428 39623		0.459 0956 68445		0.199 1637 29696	
25.5	0.890 3051 38987	2328	0.452 2511 68771	3943	0.196 1941 29838	1716
26.0	0.894 2038 38348		0.445 3740 69094		0.193 2103 29977	
26.5	0.898 0386 37706	+2254	0.438 4646 69412	3979	0.190 2126 30115	1731
27.0	0.901 8092 37059		+		+	
27.5	0.905 5151 36410	2179	0.431 5234 69725		0.187 2011 30250	
28.0	0.909 1561 35757		0.424 5509 70033	+4014	0.184 1761 30384	+1746
28.5	0.912 7318 35099	2104	0.417 5476 70336		0.181 1377 30515	
29.0	0.916 2417 34439		0.410 5140 70636	4047	0.178 0862 30645	1760
29.5	0.919 6856 33777	2028	0.403 4504 70930		0.175 0217 30772	
30.0	0.923 0633 33110		0.396 3574 71219	4079	0.171 9445 30897	1774
30.5	0.926 3743 32441	1952	0.389 2355 71503		0.168 8548 31020	
31.0	0.929 6184 31095	+1875	0.382 0852 71782	4110	0.165 7528 31140	1788
Sept. 1.0	0.935 9048 29738		0.374 9070 72055		0.162 6388 31258	
1.5	0.938 9466 29056	1798	0.367 7015 72322	4139	0.159 5130 31374	1801
2.0	0.941 9204 28371		+		+	
2.5	0.944 8260 27683	1720	0.360 4693 72584		0.156 3756 31487	
3.0	0.947 6631 26992		0.353 2109 72842	+4168	0.153 2269 31598	+1813
3.5	0.950 4314 26307	1642	0.345 9267 73093		0.150 0671 31707	
4.0	0.953 1306 25622		0.338 6174 73339	4196	0.146 8964 31813	1825
			0.331 2835 73579		0.143 7151 31917	
			0.323 9256 73813	4222	0.140 5234 32018	1837
			0.316 5443 74042		0.137 3216 32118	
			0.309 1401 74266	4247	0.134 1098 32214	1848
			0.301 7135		0.130 8884	

Mittl. Aequator und Mittl. Aequinoctium 1902.0.

1902	X	Red. auf 1900.0	Y	Red. auf 1900.0	Z	Red. auf 1900.0
Sept. 4.0	—		+		+	
4.5	0.953 1306 26299		0.301 7135 74483		0.130 8884 32308	
5.0	0.955 7605 25605	+1563	0.294 2652 74694	+4271	0.127 6576 32401	+1858
5.5	0.958 3210 24908		0.286 7958 74900		0.124 4175 32490	
6.0	0.960 8118 24211	1484	0.279 3058 75100	4294	0.121 1685 32576	1868
6.5	0.963 2329 23512		0.271 7958 75294		0.117 9109 32661	
7.0	0.965 5841 22811	1405	0.264 2664 75483	4315	0.114 6448 32742	1877
7.5	0.967 8652 22109		0.256 7181 75666		0.111 3706 32822	
8.0	0.970 0761 21405	1325	0.249 1515 75843	4335	0.108 0884 32899	1885
8.5	0.972 2166 20699		0.241 5672 76015		0.104 7985 32973	
	0.974 2865 19993	1244	0.233 9657 76181	4354	0.101 5012 33046	1893
9.0	—		+		+	
9.5	0.976 2858 19284		0.226 3476 76342		0.098 1966 33116	
10.0	0.978 2142 18573	+1163	0.218 7134 76497	+4371	0.094 8850 33184	+1901
10.5	0.980 0715 17862		0.211 0637 76647		0.091 5666 33249	
11.0	0.981 8577 17149	1082	0.203 3990 76791	4387	0.088 2417 33312	1908
11.5	0.983 5726 16436		0.195 7199 76929		0.084 9105 33372	
12.0	0.985 2162 15722	1000	0.188 0270 77062	4402	0.081 5733 33430	1914
12.5	0.986 7884 15006		0.180 3208 77189		0.078 2303 33486	
13.0	0.988 2890 14290	918	0.172 6019 77311	4416	0.074 8817 33539	1920
13.5	0.989 7180 13573		0.164 8708 77428		0.071 5278 33590	
	0.991 0753 12854	836	0.157 1280 77539	4429	0.068 1688 33638	1926
14.0	—		+		+	
14.5	0.992 3607 12135		0.149 3741 77645		0.064 8050 33685	
15.0	0.993 5742 11414	+ 753	0.141 6096 77746	+4441	0.061 4365 33729	+1931
15.5	0.994 7156 10693		0.133 8350 77842		0.058 0636 33771	
16.0	0.995 7849 9971	670	0.126 0508 77931	4451	0.054 6865 33809	1935
16.5	0.996 7820 9248		0.118 2577 78015		0.051 3056 33846	
17.0	0.997 7068 8525	587	0.110 4562 78094	4460	0.047 9210 33882	1939
17.5	0.998 5593 7801		0.102 6468 78168		0.044 5328 33914	
18.0	0.999 3394 7077	504	0.094 8300 78237	4467	0.041 1414 33944	1942
18.5	1.000 0471 6352		0.087 0063 78301		0.037 7470 33972	
	1.000 6823 5625	421	0.079 1762 78359	4472	0.034 3498 33997	1945
19.0	—		+		+	
19.5	1.001 2448 4898		0.071 3403 78413		0.030 9501 34021	
20.0	1.001 7346 4170	+ 338	0.063 4990 78461	+4477	0.027 5480 34041	+1947
20.5	1.002 1516 3441		0.055 6529 78503		0.024 1439 34060	
21.0	1.002 4957 2712	254	0.047 8026 78541	4480	0.020 7379 34075	1949
21.5	1.002 7669 1981		0.039 9485 78573		0.017 3304 34089	
22.0	1.002 9650 1249	170	0.032 0912 78600	4482	0.013 9215 34100	1950
22.5	1.003 0899 517		0.024 2312 78621		0.010 5115 34109	
23.0	1.003 1416 215	86	0.016 3691 78637	4483	0.007 1006 34116	1950
	1.003 1201		0.008 5054		0.003 6890	

Mittl. Aequator und Mittl. Aequinoctium 1902.o.

1902	X	Red. auf 1900.o	Y	Red. auf 1900.o	Z	Red. auf 1900.o
Sept. 23.0	—		+		+	
	1.003 1201	949	0.008 5054	78647	0.003 6890	34120
23.5	1.003 0252	+ 2	0.000 6407	+4483	0.000 2770	+1949
	—	1684	—	78651	—	34121
24.0	1.002 8568	2419	0.007 2244	78650	0.003 1351	34121
24.5	1.002 6149	3156	0.015 0894	78643	0.006 5472	34118
25.0	1.002 2993	3892	0.022 9537	78630	0.009 9590	34113
25.5	1.001 9101	4630	0.030 8167	78612	0.013 3703	34104
26.0	1.001 4471	5367	0.038 6779	78587	0.016 7807	34093
26.5	1.000 9104	6105	0.046 5366	78557	0.020 1900	34080
27.0	1.000 2999	6843	0.054 3923	78521	0.023 5980	34063
27.5	0.999 6156	7581	0.062 2444	78477	0.027 0043	34044
	—		—		—	
28.0	0.998 8575	8319	0.070 0921	78428	0.030 4087	34022
28.5	0.998 0256	9057	0.077 9349	78373	0.033 8109	33997
29.0	0.997 1199	9795	0.085 7722	78311	0.037 2106	33970
29.5	0.996 1404	10534	0.093 6033	78244	0.040 6076	33940
30.0	0.995 0870	11271	0.101 4277	78170	0.044 0016	33908
30.5	0.993 9599	12009	0.109 2447	78089	0.047 3924	33873
Oct. 1.0	0.992 7590	12746	0.117 0536	78003	0.050 7797	33836
1.5	0.991 4844	13481	0.124 8539	77910	0.054 1633	33795
2.0	0.990 1363	14216	0.132 6449	77811	0.057 5428	33752
2.5	0.988 7147	14951	0.140 4260	77705	0.060 9180	33707
	—		—		—	
3.0	0.987 2196	15684	0.148 1965	77594	0.064 2887	33658
3.5	0.985 6512	16416	0.155 9559	77476	0.067 6545	33607
4.0	0.984 0096	17147	0.163 7035	77353	0.071 0152	33553
4.5	0.982 2949	17876	0.171 4388	77224	0.074 3705	33497
5.0	0.980 5073	18604	0.179 1612	77088	0.077 7202	33439
5.5	0.978 6469	19331	0.186 8700	76947	0.081 0641	33377
6.0	0.976 7138	20056	0.194 5647	76799	0.084 4018	33313
6.5	0.974 7082	20779	0.202 2446	76646	0.087 7331	33248
7.0	0.972 6303	21501	0.209 9092	76487	0.091 0579	33179
7.5	0.970 4802	22220	0.217 5579	76321	0.094 3758	33108
	—		—		—	
8.0	0.968 2582	22938	0.225 1900	76151	0.097 6866	33035
8.5	0.965 9644	23655	0.232 8051	75975	0.100 9901	32959
9.0	0.963 5989	24371	0.240 4026	75793	0.104 2860	32881
9.5	0.961 1618	25084	0.247 9819	75605	0.107 5741	32800
10.0	0.958 6534	25796	0.255 5424	75411	0.110 8541	32716
10.5	0.956 0738	26505	0.263 0835	75213	0.114 1257	32629
11.0	0.953 4233	27213	0.270 6048	75009	0.117 3886	32541
11.5	0.950 7020	27919	0.278 1057	74798	0.120 6427	32450
12.0	0.947 9101		0.285 5855		0.123 8877	

Mittl. Aequator und Mittl. Aequinoctium 1902.0.

1902	X	Red. auf 1900.0	Y	Red. auf 1900.0	Z	Red. auf 1900.0
Oct. 12.0	0.947 9101 28622	—	0.285 5855 74583	—	0.123 8877 32357	—
12.5	0.945 0479 29322	-1558	0.293 0438 74363	+4223	0.127 1234 32262	+1837
13.0	0.942 1157 30021	—	0.300 4801 74137	—	0.130 3496 32164	—
13.5	0.939 1136 30717	1637	0.307 8938 73905	4197	0.133 5660 32064	1825
14.0	0.936 0419 31412	—	0.315 2843 73669	—	0.136 7724 31962	—
14.5	0.932 9007 32104	1715	0.322 6512 73427	4169	0.139 9686 31857	1813
15.0	0.929 6903 32794	—	0.329 9939 73180	—	0.143 1543 31750	—
15.5	0.926 4109 33482	1793	0.337 3119 72929	4140	0.146 3293 31641	1801
16.0	0.923 0627 34168	—	0.344 6048 72672	—	0.149 4934 31530	—
16.5	0.919 6459 34851	1870	0.351 8720 72410	4110	0.152 6464 31417	1788
17.0	0.916 1608 35533	—	0.359 1130 72144	—	0.155 7881 31301	—
17.5	0.912 6075 36212	-1947	0.366 3274 71872	+4079	0.158 9182 31183	+1774
18.0	0.908 9863 36889	—	0.373 5146 71595	—	0.162 0365 31063	—
18.5	0.905 2974 37564	2023	0.380 6741 71313	4046	0.165 1428 30940	1760
19.0	0.901 5410 38237	—	0.387 8054 71026	—	0.168 2368 30815	—
19.5	0.897 7173 38908	2099	0.394 9080 70734	4012	0.171 3183 30688	1745
20.0	0.893 8265 39576	—	0.401 9814 70436	—	0.174 3871 30558	—
20.5	0.889 8689 40243	2174	0.409 0250 70132	3977	0.177 4429 30427	1730
21.0	0.885 8446 40907	—	0.416 0382 69824	—	0.180 4856 30293	—
21.5	0.881 7539 41570	2248	0.423 0206 69512	3940	0.183 5149 30157	1714
22.0	0.877 5969 42230	—	0.429 9718 69193	—	0.186 5306 30019	—
22.5	0.873 3739 42888	-2322	0.436 8911 68869	+3902	0.189 5325 29877	+1698
23.0	0.869 0851 43542	—	0.443 7780 68540	—	0.192 5202 29733	—
23.5	0.864 7309 44194	2395	0.450 6320 68204	3864	0.195 4935 29588	1681
24.0	0.860 3115 44845	—	0.457 4524 67863	—	0.198 4523 29439	—
24.5	0.855 8270 45492	2467	0.464 2387 67517	3824	0.201 3962 29289	1664
25.0	0.851 2778 46136	—	0.470 9904 67164	—	0.204 3251 29136	—
25.5	0.846 6642 46777	2538	0.477 7068 66807	3783	0.207 2387 28980	1646
26.0	0.841 9865 47415	—	0.484 3875 66444	—	0.210 1367 28822	—
26.5	0.837 2450 48051	2609	0.491 0319 66075	3741	0.213 0189 28662	1628
27.0	0.832 4399 48683	—	0.497 6394 65701	—	0.215 8851 28499	—
27.5	0.827 5716 49311	-2679	0.504 2095 65322	+3698	0.218 7350 28335	+1609
28.0	0.822 6405 49937	—	0.510 7417 64936	—	0.221 5685 28167	—
28.5	0.817 6468 50558	2748	0.517 2353 64546	3654	0.224 3852 27997	1590
29.0	0.812 5910 51176	—	0.523 6899 64149	—	0.227 1849 27825	—
29.5	0.807 4734 51789	2816	0.530 1048 63746	3608	0.229 9674 27651	1570
30.0	0.802 2945 52399	—	0.536 4794 63339	—	0.232 7325 27474	—
30.5	0.797 0546 53006	2884	0.542 8133 62926	3562	0.235 4799 27295	1550
31.0	0.791 7540	—	0.549 1059	—	0.238 2094	—

Mittl. Aequator und Mittl. Aequinoctium 1902.0.

1902	X	Red. auf 1900.0	Y	Red. auf 1900.0	Z	Red. auf 1900.0
Oct. 31.0	0.791 7540 53608		0.549 1059 62508		0.238 2094 27114	
31.5	0.786 3932 54206	-295 I	0.555 3567 62086	+3515	0.240 9208 26931	+1529
Nov. 1.0	0.780 9726 54800		0.561 5653 61658		0.243 6139 26745	
1.5	0.775 4926 55389	3016	0.567 7311 61225	3467	0.246 2884 26557	1508
2.0	0.769 9537 55974		0.573 8536 60787		0.248 9441 26367	
2.5	0.764 3563 56554	308 I	0.579 9323 60344	3417	0.251 5808 26176	1486
3.0	0.758 7009 57131		0.585 9667 59896		0.254 1984 25982	
3.5	0.752 9878 57703	3145	0.591 9563 59444	3366	0.256 7966 25787	1464
4.0	0.747 2175 58270		0.597 9007 58986		0.259 3753 25588	
4.5	0.741 3905 58833	3208	0.603 7993 58525	3314	0.261 9341 25388	1441
5.0	0.735 5072 59391		0.609 6518 58059		0.264 4729 25186	
5.5	0.729 5681 59944	-3269	0.615 4577 57587	+3262	0.266 9915 24981	+1418
6.0	0.723 5737 60493		0.621 2164 57111		0.269 4896 24775	
6.5	0.717 5244 61037	3330	0.626 9275 56632	3208	0.271 9671 24568	1395
7.0	0.711 4207 61576		0.632 5907 56147		0.274 4239 24358	
7.5	0.705 2631 62110	3390	0.638 2054 55658	3153	0.276 8597 24147	1371
8.0	0.699 0521 62640		0.643 7712 55165		0.279 2744 23934	
8.5	0.692 7881 63164	3449	0.649 2877 54668	3097	0.281 6678 23718	1347
9.0	0.686 4717 63684		0.654 7545 54168		0.284 0396 23501	
9.5	0.680 1033 64199	3506	0.660 1713 53663	3041	0.286 3897 23283	1323
10.0	0.673 6834 64709		0.665 5376 53155		0.288 7180 23062	
10.5	0.667 2125 65213	-3563	0.670 8531 52642	+2983	0.291 0242 22840	+1298
11.0	0.660 6912 65713		0.676 1173 52126		0.293 3082 22616	
11.5	0.654 1199 66209	3619	0.681 3299 51605	2924	0.295 5698 22391	1272
12.0	0.647 4990 66699		0.686 4904 51081		0.297 8089 22164	
12.5	0.640 8291 67184	3674	0.691 5985 50554	2865	0.300 0253 21934	1246
13.0	0.634 1107 67665		0.696 6539 50023		0.302 2187 21704	
13.5	0.627 3442 68140	3728	0.701 6562 49489	2805	0.304 3891 21473	1220
14.0	0.620 5302 68610		0.706 6051 48951		0.306 5364 21239	
14.5	0.613 6692 69076	3780	0.711 5002 48409	2743	0.308 6603 21005	1193
15.0	0.606 7616 69537		0.716 3411 47865		0.310 7608 20769	
15.5	0.599 8079 69993	-3831	0.721 1276 47317	+2681	0.312 8377 20530	+1166
16.0	0.592 8086 70445		0.725 8593 46765		0.314 8907 20291	
16.5	0.585 7641 70892	3881	0.730 5358 46210	2618	0.316 9198 20049	1139
17.0	0.578 6749 71335		0.735 1568 45652		0.318 9247 19806	
17.5	0.571 5414 71772	3930	0.739 7220 45089	2554	0.320 9053 19562	1111
18.0	0.564 3642 72205		0.744 2309 44523		0.322 8615 19316	
18.5	0.557 1437 72634	3978	0.748 6832 43953	2490	0.324 7931 19068	1083
19.0	0.549 8803		0.753 0785		0.326 6999	

Mittl. Aequator und Mittl. Aequinoctium 1902.0.

1902	X	Red. auf 1900.0	Y	Red. auf 1900.0	Z	Red. auf 1900.0
Nov. 19.0	0.549 8803 73057		0.753 0785 43379		0.326 6999 18819	
19.5	0.542 5746 73474	-4025	0.757 4164 42802	+2425	0.328 5818 18568	+1055
20.0	0.535 2272 73887		0.761 6966 42221		0.330 4386 18315	
20.5	0.527 8385 74296	4070	0.765 9187 41637	2360	0.332 2701 18062	1026
21.0	0.520 4089 74698		0.770 0824 41048		0.334 0763 17806	
21.5	0.512 9391 75096	4114	0.774 1872 40456	2293	0.335 8569 17549	997
22.0	0.505 4295 75488		0.778 2328 39860		0.337 6118 17290	
22.5	0.497 8807 75875	4156	0.782 2188 39261	2225	0.339 3408 17030	967
23.0	0.490 2932 76256		0.786 1449 38657		0.341 0438 16768	
23.5	0.482 6676 76631	4197	0.790 0106 38051	2157	0.342 7206 16504	938
24.0	0.475 0045 77000		0.793 8157 37441		0.344 3710 16240	
24.5	0.467 3045 77364	-4237	0.797 5598 36827	+2089	0.345 9950 15973	+908
25.0	0.459 5681 77722		0.801 2425 36210		0.347 5923 15705	
25.5	0.451 7959 78073	4276	0.804 8635 35589	2020	0.349 1628 15436	878
26.0	0.443 9886 78419		0.808 4224 34965		0.350 7064 15165	
26.5	0.436 1467 78758	4314	0.811 9189 34337	1950	0.352 2229 14893	847
27.0	0.428 2709 79091		0.815 3526 33706		0.353 7122 14620	
27.5	0.420 3618 79417	4350	0.818 7232 33074	1879	0.355 1742 14345	817
28.0	0.412 4201 79738		0.822 0306 32438		0.356 6087 14070	
28.5	0.404 4463 80052	4384	0.825 2744 31800	1808	0.358 0157 13792	786
29.0	0.396 4411 80360		0.828 4544 31158		0.359 3949 13514	
29.5	0.388 4051 80662	-4417	0.831 5702 30513	+1736	0.360 7463 13234	+755
30.0	0.380 3389 80956		0.834 6215 29866		0.362 0697 12954	
30.5	0.372 2433 81244	4449	0.837 6081 29215	1664	0.363 3651 12672	724
Dec. 1.0	0.364 1189 81526		0.840 5296 28563		0.364 6323 12389	
1.5	0.355 9663 81801	4479	0.843 3859 27908	1591	0.365 8712 12106	692
2.0	0.347 7862 82069		0.846 1767 27252		0.367 0818 11821	
2.5	0.339 5793 82330	4509	0.848 9019 26592	1518	0.368 2639 11535	660
3.0	0.331 3463 82585		0.851 5611 25931		0.369 4174 11249	
3.5	0.323 0878 82833	4537	0.854 1542 25267	1445	0.370 5423 10961	628
4.0	0.314 8045 83075		0.856 6809 24602		0.371 6384 10673	
4.5	0.306 4970 83309	-4564	0.859 1411 23936	+1371	0.372 7057 10384	+596
5.0	0.298 1661 83538		0.861 5347 23267		0.373 7441 10094	
5.5	0.289 8123 83760	4589	0.863 8614 22595	1296	0.374 7535 9804	564
6.0	0.281 4363 83975		0.866 1209 21923		0.375 7339 9513	
6.5	0.273 0388 84182	4612	0.868 3132 21249	1221	0.376 6852 9221	531
7.0	0.264 6206 84384		0.870 4381 20574		0.377 6073 8928	
7.5	0.256 1822 84578	4634	0.872 4955 19896	1145	0.378 5001 8635	498
8.0	0.247 7244		0.874 4851		0.379 3636	

Mittl. Aequator und Mittl. Aequinoctium 1902.o.

1902	X	Red. auf 1900.o	Y	Red. auf 1900.o	Z	Red. auf 1900.o
Dec. 8.0	0.247 7244	84766	0.874 4851	19218	0.379 3636	8340
8.5	0.239 2478	84947	0.876 4069	18539	0.380 1976	8046
9.0	0.230 7531	85121	0.878 2608	17858	0.381 0022	7751
9.5	0.222 2410	85290	0.880 0466	17177	0.381 7773	7455
10.0	0.213 7120	85452	0.881 7643	16495	0.382 5228	7160
10.5	0.205 1668	85606	0.883 4138	15811	0.383 2388	6863
11.0	0.196 6062	85755	0.884 9949	15128	0.383 9251	6567
11.5	0.188 0307	85897	0.886 5077	14443	0.384 5818	6269
12.0	0.179 4410	86033	0.887 9520	13758	0.385 2087	5972
12.5	0.170 8377	86163	0.889 3278	13071	0.385 8059	5673
13.0	0.162 2214	86286	0.890 6349	12384	0.386 3732	5375
13.5	0.153 5928	86403	0.891 8733	11696	0.386 9107	5076
14.0	0.144 9525	86514	0.893 0429	11007	0.387 4183	4777
14.5	0.136 3011	86618	0.894 1436	10317	0.387 8960	4477
15.0	0.127 6393	86717	0.895 1753	9626	0.388 3437	4178
15.5	0.118 9676	86810	0.896 1379	8935	0.388 7615	3877
16.0	0.110 2866	86897	0.897 0314	8243	0.389 1492	3576
16.5	0.101 5969	86977	0.897 8557	7550	0.389 5068	3276
17.0	0.092 8992	87052	0.898 6107	6856	0.389 8344	2974
17.5	0.084 1940	87120	0.899 2963	6162	0.390 1318	2673
18.0	0.075 4820	87182	0.899 9125	5466	0.390 3991	2370
18.5	0.066 7638	87237	0.900 4591	4769	0.390 6361	2068
19.0	0.058 0401	87286	0.900 9360	4071	0.390 8429	1765
19.5	0.049 3115	87327	0.901 3431	3373	0.391 0194	1461
20.0	0.040 5788	87363	0.901 6804	2673	0.391 1655	1157
20.5	0.031 8425	87392	0.901 9477	1973	0.391 2812	854
21.0	0.023 1033	87414	0.902 1450	1272	0.391 3666	550
21.5	0.014 3619	87430	0.902 2722	572	0.391 4216	245
22.0	0.005 6189	87438	0.902 3294	130	0.391 4461	60
22.5	0.003 1249	87439	0.902 3164	833	0.391 4401	365
23.0	0.011 8688	87434	0.902 2331	1535	0.391 4036	669
23.5	0.020 6122	87421	0.902 0796	2238	0.391 3367	974
24.0	0.029 3543	87402	0.901 8558	2941	0.391 2393	1279
24.5	0.038 0945	87375	0.901 5617	3644	0.391 1114	1585
25.0	0.046 8320	87341	0.901 1973	4348	0.390 9529	1890
25.5	0.055 5661	87301	0.900 7625	5052	0.390 7639	2195
26.0	0.064 2962	87253	0.900 2573	5755	0.390 5444	2499
26.5	0.073 0215	87198	0.899 6818	6458	0.390 2945	2804
27.0	0.081 7413		0.899 0360		0.390 0141	

Mittl. Aequator und Mittl. Aequinoctium 1902.0.

1902	X	Red. auf 1900.0	Y	Red. auf 1900.0	Z	Red. auf 1900.0
	+		-		-	
Dec. 27.0	0.081 7413 87136		0.899 0360 7161		0.390 0141 3109	
27.5	0.090 4549 87066	-4772	0.898 3199 7863	- 403	0.389 7032 3413	-176
28.0	0.099 1615 86990		0.897 5336 8565		0.389 3619 3717	
28.5	0.107 8605 86906	4763	0.896 6771 9265	481	0.388 9902 4021	210
29.0	0.116 5511 86815		0.895 7506 9965		0.388 5881 4325	
29.5	0.125 2326 86717	4753	0.894 7541 10665	559	0.388 1556 4627	244
30.0	0.133 9043 86612		0.893 6876 11365		0.387 6929 4930	
30.5	0.142 5655 86500	4741	0.892 5511 12063	636	0.387 1999 5232	277
31.0	0.151 2155 86381		0.891 3448 12759		0.386 6767 5534	
31.5	0.159 8536 86254	4728	0.890 0689 13455	713	0.386 1233 5836	310
	+		-		-	
32.0	0.168 4790 86121		0.888 7234 14149		0.385 5397 6137	
32.5	0.177 0911 85981	-4714	0.887 3085 14842	- 790	0.384 9260 6437	-343
33.0	0.185 6892 85834		0.885 8243 15533		0.384 2823 6737	
33.5	0.194 2726 85679	4698	0.884 2710 16223	867	0.383 6086 7036	377
34.0	0.202 8405 85518		0.882 6487 16912		0.382 9050 7335	
34.5	0.211 3923 85350	4680	0.880 9575 17599	944	0.382 1715 7632	411
35.0	0.219 9273 85175		0.879 1976 18284		0.381 4083 7929	
35.5	0.228 4448 84994	4661	0.877 3692 18967	1020	0.380 6154 8225	444
36.0	0.236 9442 84805		0.875 4725 19648		0.379 7929 8521	
36.5	0.245 4247 84610	4640	0.873 5077 20329	1096	0.378 9408 8815	477
	+		-		-	
37.0	0.253 8857		0.871 4748		0.378 0593	

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Jan. 1.0	12 ^h 24 ^m 3.28 ^s	^m 23 13.06	— 5° 43' 23.3"	— 1° 57' 34.9"	8.20545	—222	15' 2.1"
1.5	12 47 16.34	23 12.53	7 40 58.2	1 51 50.8	8.20323	190	14 57.5
2.0	13 10 28.87	23 16.61	9 32 49.0	1 45 14.8	8.20133	157	14 53.6
2.5	13 33 45.48	23 24.76	11 18 3.8	1 37 48.5	8.19976	123	14 50.4
3.0	13 57 10.24	23 36.41	12 55 52.3	1 29 33.1	8.19853	90	14 47.9
3.5	14 20 46.65	23 50.87	14 25 25.4	1 20 28.7	8.19763	58	14 46.0
4.0	14 44 37.52	24 7.29	15 45 54.1	1 10 35.9	8.19705	— 27	14 44.8
4.5	15 8 44.81	24 24.84	16 56 30.0	0 59 55.8	8.19678	+ 3	14 44.3
5.0	15 33 9.65	24 42.62	17 56 25.8	0 48 30.4	8.19681	30	14 44.4
5.5	15 57 52.27	24 59.77	18 44 56.2	— 0 36 23.2	8.19711	+ 56	14 45.0
6.0	16 22 52.04	25 15.30	— 19 21 19.4	0 23 38.9	8.19767	79	14 46.1
6.5	16 48 7.34	25 28.47	19 44 58.3	— 0 10 24.1	8.19846	100	14 47.7
7.0	17 13 35.81	25 38.70	19 55 22.4	+ 0 3 12.9	8.19946	117	14 49.8
7.5	17 39 14.51	25 45.48	19 52 9.5	0 17 2.1	8.20063	133	14 52.2
8.0	18 4 59.99	25 48.65	19 35 7.4	0 30 52.7	8.20196	146	14 54.9
8.5	18 30 48.64	25 48.34	19 4 14.7	0 44 32.9	8.20342	156	14 57.9
9.0	18 56 36.98	25 44.83	18 19 41.8	0 57 50.4	8.20498	164	15 1.2
9.5	19 22 21.81	25 38.79	17 21 51.4	1 10 34.6	8.20662	171	15 4.6
10.0	19 48 0.60	25 30.96	16 11 16.8	1 22 33.9	8.20833	177	15 8.1
10.5	20 13 31.56	25 22.22	14 48 42.9	+ 1 33 38.8	8.21010	+ 180	15 11.8
11.0	20 38 53.78	25 13.56	— 13 15 4.1	1 43 41.2	8.21190	182	15 15.6
11.5	21 4 7.34	25 5.90	11 31 22.9	1 52 33.6	8.21372	185	15 19.5
12.0	21 29 13.24	25 0.22	9 38 49.3	2 0 10.5	8.21557	187	15 23.4
12.5	21 54 13.46	24 57.36	7 38 38.8	2 6 26.4	8.21744	188	15 27.4
13.0	22 19 10.82	24 58.06	5 32 12.4	2 11 17.7	8.21932	189	15 31.4
13.5	22 44 8.88	25 2.92	3 20 54.7	2 14 39.5	8.22121	190	15 35.5
14.0	23 9 11.80	25 12.48	— 1 6 15.2	2 16 28.2	8.22311	190	15 39.6
14.5	23 34 24.28	25 27.03	+ 1 10 13.0	2 16 39.5	8.22501	189	15 43.7
15.0	23 59 51.31	25 46.72	3 26 52.5	2 15 8.8	8.22690	189	15 47.8
15.5	0 25 38.03	26 11.51	5 42 1.3	+ 2 11 50.6	8.22879	+ 187	15 51.9
16.0	0 51 49.54	26 41.02	+ 7 53 51.9	2 6 39.9	8.23066	183	15 56.0
16.5	1 18 30.56	27 14.63	10 0 31.8	1 59 31.4	8.23249	176	16 0.1
17.0	1 45 45.19	27 51.31	12 0 3.2	1 50 21.0	8.23425	167	16 4.0
17.5	2 13 36.50	28 29.71	13 50 24.2	1 39 6.5	8.23592	156	16 7.7
18.0	2 42 6.21	29 8.00	15 29 30.7	1 25 49.2	8.23748	139	16 11.2
18.5	3 11 14.21	29 44.02	16 55 19.9	1 10 35.1	8.23887	119	16 14.3
19.0	3 40 58.23	30 15.52	18 5 55.0	0 53 35.6	8.24006	96	16 17.0
19.5	4 11 13.75	30 40.22	18 59 30.6	0 35 9.2	8.24102	68	16 19.1
20.0	4 41 53.97	30 55.99	19 34 39.8	+ 0 15 41.5	8.24170	36	16 20.7
20.5	5 12 49.96		19 50 21.3		8.24206		16 21.5

Jan. 1 5^h 1.4^m Letztes Viertel.Jan. 9 10^h 8.2^m Neumond.Jan. 16 19^h 32.0^m Erstes Viertel.

+6.4

16.4

+6.4

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Decl.	Gr.
Jan. 1	U 5 ^h 53.8 ^m	12 ^h 35 ^m 28 ^s	+62.50	119.60	- 6° 41.8'	-10.1	12 ^h 34.2 ^m	- 7° 27'	4.7
	O 18 15.7	12 59 23	+62.50	119.56	- 8 40.1	- 9.6	12 46.3	- 9 48	6.5
2	U 6 37.6	13 23 19	+62.59	119.95	-10 31.8	- 9.0	13 20.0	-10 39	1.2
	O 18 59.7	13 47 23	+62.78	120.74	-12 16.0	- 8.3	13 27.8	- 9 40	5.5
3	U 7 21.9	14 11 38	+63.05	121.85	-13 51.9	- 7.6	14 3.2	-11 22	6.5
	O 19 44.3	14 36 8	+63.38	123.20	-15 18.4	- 6.8	14 13.8	-12 55	4.6
4	U 8 7.1	15 0 55	+63.75	124.73	-16 34.8	- 5.9	15 1.2	-15 53	5.4
	O 20 30.2	15 26 1	+64.15	126.36	-17 40.1	- 5.0	15 6.4	-15 47	6.5
5	U 8 53.6	15 51 27	+64.54	127.99	-18 33.5	- 3.9			
	O 21 17.3	16 17 12	+64.91	129.54	-19 14.2	- 2.8			
6	U 9 41.3	16 43 14	+65.23	130.92	-19 41.4	- 1.7			
	O 22 5.5	17 9 32	+65.48	132.05	-19 54.6	- 0.5			
7	U 10 30.0	17 36 2	+65.67	132.87	-19 53.3	+ 0.7			
	O 22 54.6	18 2 39	+65.78	133.37	-19 37.3	+ 2.0			
8	U 11 19.2	18 29 21	+65.80	133.51	-19 6.4	+ 3.2			
	O 23 43.9	18 56 2	+65.75	133.33	-18 20.8	+ 4.4			
9	U 12 8.5	19 22 40	-65.62	132.90	-17 21.1	+ 5.6			
10	O 0 33.0	19 49 11	-65.45	132.24	-16 7.8	+ 6.7			
	U 12 57.3	20 15 33	-65.26	131.46	-14 41.7	+ 7.7			
11	O 1 21.5	20 41 45	-65.07	130.65	-13 3.8	+ 8.6			
	U 13 45.5	21 7 48	-64.90	129.89	-11 15.4	+ 9.5			
12	O 2 9.3	21 33 43	-64.78	129.28	- 9 17.8	+10.2			
	U 14 33.1	21 59 32	-64.71	128.92	- 7 12.3	+10.8			
13	O 2 56.8	22 25 18	-64.73	128.89	- 5 0.4	+11.2			
	U 15 20.6	22 51 7	-64.87	129.23	- 2 43.7	+11.5			
14	O 3 44.5	23 17 2	-65.10	130.00	- 0 23.8	+11.7			
	U 16 8.6	23 43 10	-65.45	131.26	+ 1 57.5	+11.8			
15	O 4 33.0	0 9 36	-65.93	133.00	+ 4 18.4	+11.7	23 41.4	+ 2 57	5.2
	U 16 57.8	0 36 25	-66.51	135.23	+ 6 37.0	+11.4	23 47.0	+ 2 23	5.9
16	O 5 23.1	1 3 44	-67.21	137.94	+ 8 51.5	+11.0	0 27.3	+ 6 25	5.7
	U 17 48.9	1 31 38	-68.00	141.05	+10 59.5	+10.3	0 43.2	+ 6 46	6.0
17	O 6 15.4	2 0 12	-68.86	144.47	+12 58.9	+ 9.5	1 32.9	+11 38	5.6
	U 18 42.6	2 29 28	-69.73	148.07	+14 47.4	+ 8.5	1 45.7	+10 33	5.8
18	O 7 10.6	2 59 27	-70.59	151.65	+16 22.6	+ 7.3	2 27.6	+14 36	6.5
	U 19 39.2	3 30 8	-71.37	155.01	+17 42.2	+ 5.9	2 39.2	+14 54	5.8
19	O 8 8.5	4 1 27	-72.03	157.91	+18 44.2	+ 4.4	3 25.8	+17 36	6.5
	U 20 38.3	4 33 16	-72.51	160.12	+19 26.7	+ 2.7	3 33.9	+16 13	6.4
20	O 9 8.4	5 5 27	-72.78	161.40	+19 48.4	+ 0.9	4 32.5	+20 29	5.8
	U 21 38.7	5 37 46	-72.80	161.66	+19 48.5	- 0.9	4 40.6	+18 33	6.5

Jan. 4 17ⁿ Apogäum.

Jan. 20 19ⁿ Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Jan. 20.0	4 ^h 41 ^m 53.97	^m 30 ^s 55.99	+19° 34' 39.8"	+0° 15' 41.5"	8.24170	+ 36	16' 20.7"
20.5	5 12 49.96	31 1.48	19 50 21.3	-0 4 17.5	8.24206	+ 1	16 21.5
21.0	5 43 51.44	30 56.08	19 46 3.8	0 24 13.1	8.24207	- 35	16 21.5
21.5	6 14 47.52	30 40.03	19 21 50.7	0 43 30.7	8.24172	75	16 20.7
22.0	6 45 27.55	30 14.46	18 38 20.0	1 1 37.5	8.24097	113	16 19.0
22.5	7 15 42.01	29 41.18	17 36 42.5	1 18 5.9	8.23984	151	16 16.5
23.0	7 45 23.19	29 2.38	16 18 36.6	1 32 35.3	8.23833	186	16 13.1
23.5	8 14 25.57	28 20.35	14 46 1.3	1 44 52.2	8.23647	220	16 8.9
24.0	8 42 45.92	27 37.24	13 1 9.1	1 54 50.4	8.23427	247	16 4.0
24.5	9 10 23.16	26 54.95	11 6 18.7	-2 2 30.3	8.23180	-271	15 58.5
25.0	9 37 18.11	26 15.01	+ 9 3 48.4	2 7 56.9	8.22909	289	15 52.6
25.5	10 3 33.12	25 38.56	6 55 51.5	2 11 18.7	8.22620	299	15 46.3
26.0	10 29 11.68	25 6.38	4 44 32.8	2 12 46.8	8.22321	305	15 39.8
26.5	10 54 18.06	24 38.94	2 31 46.0	2 12 31.8	8.22016	304	15 33.2
27.0	11 18 57.00	24 16.57	+ 0 19 14.2	2 10 45.4	8.21712	296	15 26.7
27.5	11 43 13.57	23 59.29	- 1 51 31.2	2 7 37.4	8.21416	284	15 20.4
28.0	12 7 12.86	23 47.03	3 59 8.6	2 3 17.6	8.21132	267	15 14.4
28.5	12 30 59.89	23 39.58	6 2 26.2	1 57 53.4	8.20865	244	15 8.8
29.0	12 54 39.47	23 36.70	8 0 19.6	1 51 31.0	8.20621	218	15 3.7
29.5	13 18 16.17	23 37.97	9 51 50.6	-1 44 15.9	8.20403	-189	14 59.2
30.0	13 41 54.14	23 43.00	-11 36 6.5	1 36 11.3	8.20214	157	14 55.3
30.5	14 5 37.14	23 51.25	13 12 17.8	1 27 20.1	8.20057	123	14 52.1
31.0	14 29 28.39	24 2.18	14 39 37.9	1 17 44.6	8.19934	89	14 49.5
31.5	14 53 30.57	24 15.11	15 57 22.5	1 7 26.7	8.19845	55	14 47.7
Febr. 1.0	15 17 45.68	24 29.34	17 4 49.2	0 56 28.2	8.19790	- 19	14 46.6
1.5	15 42 15.02	24 44.19	18 1 17.4	0 44 51.0	8.19771	+ 16	14 46.2
2.0	16 6 59.21	24 58.86	18 46 8.4	0 32 38.7	8.19787	49	14 46.5
2.5	16 31 58.07	25 12.70	19 18 47.1	0 19 54.9	8.19836	79	14 47.5
3.0	16 57 10.77	25 24.99	19 38 42.0	-0 6 44.8	8.19915	108	14 49.1
3.5	17 22 35.76	25 35.23	19 45 26.8	+0 6 44.8	8.20023	+135	14 51.4
4.0	17 48 10.99	25 42.98	-19 38 42.0	0 20 26.3	8.20158	159	14 54.1
4.5	18 13 53.97	25 48.07	19 18 15.7	0 34 10.3	8.20317	179	14 57.4
5.0	18 39 42.04	25 50.51	18 44 5.4	0 47 46.6	8.20496	194	15 1.1
5.5	19 5 32.55	25 50.46	17 56 18.8	1 1 4.0	8.20690	207	15 5.1
6.0	19 31 23.01	25 48.38	16 55 14.8	1 13 51.9	8.20897	216	15 9.5
6.5	19 57 11.39	25 44.82	15 41 22.9	1 25 57.8	8.21113	219	15 14.0
7.0	20 22 56.21	25 40.42	14 15 25.1	1 37 11.4	8.21332	221	15 18.6
7.5	20 48 36.63	25 35.98	12 38 13.7	1 47 21.4	8.21553	218	15 23.3
8.0	21 14 12.61	25 32.31	10 50 52.3	1 56 18.4	8.21771	214	15 28.0
8.5	21 39 44.92		8 54 33.9		8.21985		15 32.5

Jan. 23 12^h 59.8^m Vollmond.

+6.4

Jan. 31 2^h 2.2^m Letztes Viertel.

-6.4

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg. -D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Decl.	Gr.
Jan. 20	O 9 ^h 8.4 ^m	5 ^h 5 ^m 27 ^s	-72.78	161.40	+19° 48.4'	+ 0.9	4 32.5 ^{h m}	+20° 29'	5.8
	U 21 38.7	5 37 46	-72.80	161.66	+19 48.5	- 0.9	4 40.6	+18 33	6.5
21	O 10 8.9	6 10 2	-72.57	160.82	+19 26.9	- 2.7	5 31.8	+21 5	3.0
	U 22 38.8	6 42 1	-72.10	158.97	+18 44.2	- 4.4	5 41.8	+17 42	5.5
22	O 11 8.3	7 13 33	-71.43	156.26	+17 41.7	- 6.0	6 41.7	+18 18	6.5
	U 23 37.2	7 44 27	-70.61	152.87	+16 21.3	- 7.4	6 56.8	+17 54	6.2
23	O 12 5.3	8 14 38	-69.67	149.07	+14 45.3	- 8.6	7 33.9	+17 54	5.2
	—	—	—	—	—	—	7 51.5	+16 3	5.9
24	U 0 32.6	8 44 2	+68.69	144.89	+12 56.1	- 9.6	8 41.6	+12 28	5.8
	O 12 59.1	9 12 37	+67.71	140.89	+10 56.5	-10.3	8 50.6	+12 0	5.7
25	U 1 24.9	9 40 26	+66.78	137.08	+ 8 49.0	-10.9	9 36.0	+10 20	3.8
	O 13 49.9	10 7 30	+65.91	133.57	+ 6 36.0	-11.3	9 51.3	+ 9 24	6.0
26	U 2 14.3	10 33 55	+65.13	130.47	+ 4 19.8	-11.4	10 17.9	+ 7 2	6.5
	O 14 38.1	10 59 45	+64.47	127.83	+ 2 2.6	-11.4	10 38.3	+ 5 16	6.1
27	U 3 1.4	11 25 6	+63.93	125.65	- 0 13.9	-11.3	11 19.0	+ 1 57	5.5
	O 15 24.4	11 50 4	+63.52	123.95	- 2 28.1	-11.0	11 32.0	- 0 17	4.5
28	U 3 47.0	12 14 44	+63.23	122.76	- 4 38.5	-10.6	12 13.2	- 3 24	6.8
	O 16 9.4	12 39 12	+63.06	122.02	- 6 43.9	-10.2	12 18.2	- 4 26	6.5
29	U 4 31.8	13 3 34	+62.99	121.71	- 8 43.2	- 9.7	13 4.6	- 9 48	6.5
	O 16 54.1	13 27 55	+63.03	121.80	-10 35.4	- 9.0	13 20.1	-10 39	1.2
30	U 5 16.4	13 52 19	+63.17	122.24	-12 19.4	- 8.3	13 42.1	- 9 13	6.3
	O 17 38.9	14 16 49	+63.37	122.99	-13 54.6	- 7.5	14 3.3	-11 22	6.5
31	U 6 1.6	14 41 31	+63.64	124.00	-15 19.9	- 6.7	14 40.6	-15 3	6.2
	O 18 24.5	15 6 26	+63.95	125.20	-16 34.7	- 5.8	14 45.5	-15 38	3.0
Febr. 1	U 6 47.6	15 31 36	+64.29	126.51	-17 38.2	- 4.8	15 33.3	-18 59	5.7
	O 19 11.0	15 57 2	+64.63	127.88	-18 29.5	- 3.8	15 44.3	-17 36	6.5
2	U 7 34.7	16 22 44	+64.96	129.22	-19 8.2	- 2.7	16 21.4	-18 14	5.0
	O 19 58.6	16 48 42	+65.25	130.48	-19 33.5	- 1.5	16 34.8	-20 13	6.5
3	U 8 22.8	17 14 55	+65.50	131.59	-19 44.8	- 0.3	17 14.2	-17 39	6.0
	O 20 47.2	17 41 19	+65.69	132.47	-19 41.9	+ 0.9	17 18.9	-18 21	6.3
4	U 9 11.7	18 7 53	+65.82	133.13	-19 24.3	+ 2.1	—	—	—
	O 21 36.3	18 34 33	+65.89	133.52	-18 52.0	+ 3.3	—	—	—
5	U 10 1.0	19 1 16	+65.89	133.67	-18 5.1	+ 4.5	—	—	—
	O 22 25.7	19 28 0	+65.85	133.58	-17 4.0	+ 5.7	—	—	—
6	U 10 50.3	19 54 42	+65.76	133.32	-15 49.1	+ 6.8	—	—	—
	O 23 14.9	20 21 20	+65.64	132.96	-14 21.2	+ 7.8	—	—	—
7	U 11 39.4	20 47 53	+65.52	132.54	-12 41.2	+ 8.8	—	—	—
8	O 0 3.9	21 14 21	+65.41	132.15	-10 50.3	+ 9.7	—	—	—
	U 12 28.2	21 40 45	-65.34	131.88	- 8 49.9	+10.4	—	—	—

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbn.
Febr. 8.0	21 ^h 14 ^m 12.61	^m 25 ^s 32.31	— 10° 50' 52.3"	+1 56' 18.4"	8.21771	+214	15' 28.0"
8.5	21 39 44.92	25 30.13	8 54 33.9	2 3 53.1	8.21985	204	15 32.5
9.0	22 5 15.05	25 30.15	6 50 40.8	2 9 58.0	8.22189	193	15 36.9
9.5	22 30 45.20	25 33.00	4 40 42.8	2 14 26.1	8.22382	181	15 41.1
10.0	22 56 18.20	25 39.17	2 26 16.7	2 17 10.9	8.22563	168	15 45.0
10.5	23 21 57.37	25 49.02	— 0 9 5.8	2 18 8.8	8.22731	153	15 48.7
11.0	23 47 46.39	26 2.79	+ 2 9 3.0	2 17 14.1	8.22884	137	15 52.1
11.5	0 13 49.18	26 20.49	4 26 17.1	2 14 25.0	8.23021	124	15 55.1
12.0	0 40 9.67	26 41.81	6 40 42.1	2 9 38.2	8.23145	108	15 57.8
12.5	1 6 51.48	27 6.40	8 50 20.3	+2 2 53.9	8.23253	+ 94	16 0.2
13.0	1 33 57.88	27 33.52	+10 53 14.2	1 54 11.4	8.23347	82	16 2.3
13.5	2 1 31.40	28 2.15	12 47 25.6	1 43 33.8	8.23429	68	16 4.1
14.0	2 29 33.55	28 31.03	14 30 59.4	1 31 5.3	8.23497	55	16 5.6
14.5	2 58 4.58	28 58.60	16 2 4.7	1 16 53.8	8.23552	42	16 6.8
15.0	3 27 3.18	29 23.25	17 18 58.5	1 1 10.7	8.23594	30	16 7.7
15.5	3 56 26.43	29 43.33	18 20 9.2	0 44 10.8	8.23624	15	16 8.4
16.0	4 26 9.76	29 57.26	19 4 20.0	0 26 14.2	8.23639	+ 1	16 8.8
16.5	4 56 7.02	30 3.98	19 30 34.2	+0 7 42.6	8.23640	— 14	16 8.8
17.0	5 26 11.00	30 2.66	19 38 16.8	— 0 10 58.0	8.23626	32	16 8.5
17.5	5 56 13.66	29 53.29	19 27 18.8	— 0 29 21.7	8.23594	— 50	16 7.7
18.0	6 26 6.95	29 36.40	+18 57 57.1	0 47 2.6	8.23544	70	16 6.6
18.5	6 55 43.35	29 12.91	18 10 54.5	1 3 37.3	8.23474	91	16 5.1
19.0	7 24 56.26	28 44.24	17 7 17.2	1 18 45.4	8.23383	112	16 3.1
19.5	7 53 40.50	28 12.10	15 48 31.8	1 32 11.4	8.23271	133	16 0.6
20.0	8 21 52.60	27 37.96	14 16 20.4	1 43 44.3	8.23138	156	15 57.6
20.5	8 49 30.56	27 3.48	12 32 36.1	1 53 17.0	8.22982	176	15 54.2
21.0	9 16 34.04	26 29.95	10 39 19.1	2 0 47.8	8.22806	196	15 50.3
21.5	9 43 3.99	25 58.47	8 38 31.3	2 6 18.5	8.22610	212	15 46.1
22.0	10 9 2.46	25 29.87	6 32 12.8	2 9 51.9	8.22398	226	15 41.5
22.5	10 34 32.33	25 4.73	4 22 20.9	— 2 11 34.8	8.22172	— 235	15 36.6
23.0	10 59 37.06	24 43.43	+ 2 10 46.1	2 11 34.1	8.21937	242	15 31.5
23.5	11 24 20.49	24 26.12	— 0 0 48.0	2 9 58.4	8.21695	244	15 26.3
24.0	11 48 46.61	24 12.92	2 10 46.4	2 6 55.4	8.21451	242	15 21.1
24.5	12 12 59.53	24 3.67	4 17 41.8	2 2 33.2	8.21209	235	15 16.0
25.0	12 37 3.20	23 58.20	6 20 15.0	1 56 59.2	8.20974	224	15 11.1
25.5	13 1 1.40	23 56.22	8 17 14.2	1 50 20.9	8.20750	209	15 6.4
26.0	13 24 57.62	23 57.48	10 7 35.1	1 42 44.0	8.20541	189	15 2.0
26.5	13 48 55.10	24 1.48	11 50 19.1	1 34 13.7	8.20352	166	14 58.1
27.0	14 12 56.58	24 7.86	13 24 32.8	1 24 55.8	8.20186	140	14 54.7
27.5	14 37 4.44		14 49 28.6		8.20046		14 51.8

Febr. 8 ^h 2 ^m 15.1 Neumond. Febr. 15 ^h 3 ^m 50.2 Erstes Viertel. Febr. 22 ^h 1 ^m 57.0 Vollmond.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Decl.	Gr.
Febr. 8 O	0 ^h 3.9 ^m	21 ^h 14 ^m 21 ^s	+65.41	132.15	-10° 50.3'	+ 9.7			
U	12 28.2	21 40 45	-65.34	131.88	- 8 49.9	+10.4			
9 O	0 52.5	22 7 7	-65.33	131.78	- 6 41.4	+11.0			
U	13 16.9	22 33 29	-65.37	131.93	- 4 26.5	+11.4			
10 O	1 41.3	22 59 54	-65.51	132.36	- 2 7.1	+11.7			
U	14 5.8	23 26 27	-65.74	133.15	+ 0 15.0	+11.9			
11 O	2 30.5	23 53 12	-66.06	134.30	+ 2 37.9	+11.9			
U	14 55.5	0 20 13	-66.49	135.83	+ 4 59.4	+11.7			
12 O	3 20.8	0 47 34	-67.00	137.73	+ 7 17.4	+11.3			
U	15 46.5	1 15 20	-67.59	139.94	+ 9 29.8	+10.7			
13 O	4 12.7	1 43 35	-68.24	142.44	+11 34.4	+10.0	1 ^h 8.6 ^m	+ 7° 3'	4.2
U	16 39.4	2 12 21	-68.92	145.10	+13 29.0	+ 9.1	1 16.2	+11 1	6.5
14 O	5 6.7	2 41 39	-69.60	147.80	+15 11.4	+ 8.0	1 57.3	+13 0	6.5
U	17 34.5	3 11 29	-70.25	150.41	+16 39.6	+ 6.7	2 27.5	+14 36	6.5
15 O	6 2.7	3 41 49	-70.81	152.74	+17 51.8	+ 5.3	2 59.2	+15 29	6.5
U	18 31.4	4 12 34	-71.25	154.63	+18 46.4	+ 3.8	3 21.5	+18 25	6.5
16 O	7 0.5	4 43 38	-71.55	155.92	+19 21.9	+ 2.2	4 6.9	+17 2	6.4
U	19 29.7	5 14 53	-71.66	156.49	+19 37.6	+ 0.5	4 14.7	+18 30	5.9
17 O	7 58.9	5 46 11	-71.57	156.27	+19 33.1	- 1.2	5 13.5	+20 2	6.5
U	20 28.0	6 17 21	-71.30	155.26	+19 8.5	- 2.9	5 21.5	+17 53	5.4
18 O	8 56.9	6 48 14	-70.85	153.53	+18 24.5	- 4.4	6 15.7	+17 48	6.5
U	21 25.3	7 18 42	-70.25	151.19	+17 22.3	- 5.9	6 23.2	+20 16	4.0
19 O	9 53.2	7 48 39	-69.54	148.40	+16 3.4	- 7.2	7 12.5	+16 43	3.6
U	22 20.5	8 18 1	-68.75	145.31	+14 29.8	- 8.4	7 26.2	+17 18	5.6
20 O	10 47.2	8 46 44	-67.93	142.10	+12 43.7	- 9.3	8 12.7	+15 59	6.5
U	23 13.2	9 14 50	-67.11	138.91	+10 46.9	-10.1	8 21.4	+12 59	5.6
21 O	11 38.6	9 42 17	-66.33	135.86	+ 8 42.0	-10.7	9 2.5	+11 4	5.0
—	—	—	—	—	—	—	9 23.2	+ 9 29	5.6
22 U	0 3.5	10 9 10	-65.61	133.07	+ 6 31.6	-11.1	9 55.1	+ 8 31	5.0
O	12 27.8	10 35 31	+64.98	130.48	+ 4 17.3	-11.3	10 17.9	+ 7 2	6.5
23 U	0 51.6	11 1 24	+64.44	128.37	+ 2 1.3	-11.4	11 1.9	+ 2 29	5.7
O	13 15.1	11 26 54	+64.00	126.63	- 0 14.5	-11.3	11 3.8	+ 0 28	5.5
24 U	1 38.3	11 52 6	+63.66	125.28	- 2 28.3	-11.0	11 44.1	+ 0 14	6.5
O	14 1.2	12 17 3	+63.43	124.32	- 4 38.7	-10.7	12 1.0	- 2 35	6.4
25 U	2 24.0	12 41 51	+63.30	123.72	- 6 44.1	-10.2	12 42.5	- 5 46	6.1
O	14 46.6	13 6 34	+63.26	123.46	- 8 43.4	- 9.7	12 49.3	- 9 0	5.0
26 U	3 9.3	13 31 15	+63.30	123.50	-10 35.4	- 9.0	13 27.8	- 9 40	5.5
O	15 32.0	13 55 59	+63.43	123.84	-12 19.0	- 8.2	13 40.7	-11 56	6.0
27 U	3 54.8	14 20 48	+63.61	124.38	-13 53.3	- 7.4	14 13.8	-12 55	4.6
O	16 17.7	14 45 45	+63.82	125.12	-15 17.5	- 6.6	14 40.6	-15 3	6.2

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Febr. 27.0	14 ^h 12 ^m 56.58		-13 [°] 24' 32.8		8.20186		14 54.7
27.5	14 37 4.44	24 ^m 7.86	14 49 28.6	-1 24 55.8	8.20046	-140	14 51.8
28.0	15 1 20.53	24 16.09	16 4 22.9	1 14 54.3	8.19936	110	14 49.6
28.5	15 25 46.19	24 25.66	17 8 35.5	1 4 12.6	8.19858	78	14 48.0
März 1.0	15 50 22.24	24 36.05	18 1 31.0	0 52 55.5	8.19813	45	14 47.1
1.5	16 15 8.94	24 46.70	18 42 36.9	0 41 5.9	8.19802	- 11	14 46.8
2.0	16 40 6.09	24 57.15	19 11 25.2	0 28 48.3	8.19826	+ 24	14 47.3
2.5	17 5 12.95	25 6.86	19 27 32.5	0 16 7.3	8.19886	60	14 48.5
3.0	17 30 28.47	25 15.52	19 30 40.1	-0 3 7.6	8.19980	94	14 50.5
3.5	17 55 51.29	25 22.82	19 20 35.1	+0 10 5.0	8.20107	127	14 53.1
		25 28.60		+0 23 24.8		+159	
4.0	18 21 19.89	25 32.78	-18 57 10.3	0 36 43.8	8.20266	189	14 56.4
4.5	18 46 52.67	25 35.55	18 20 26.5	0 49 55.0	8.20455	213	15 0.3
5.0	19 12 28.22	25 37.14	17 30 31.5	1 2 50.0	8.20668	236	15 4.7
5.5	19 38 5.36	25 37.99	16 27 41.5	1 15 19.1	8.20904	255	15 9.6
6.0	20 3 43.26	25 38.30	15 12 22.4	1 27 13.0	8.21159	267	15 15.0
6.5	20 29 21.56	25 38.85	13 45 9.4	1 38 21.4	8.21426	275	15 20.6
7.0	20 55 0.41	25 40.17	12 6 48.0	1 48 33.8	8.21701	280	15 26.5
7.5	21 20 40.58	25 42.81	10 18 14.2	1 57 38.6	8.21981	276	15 32.5
8.0	21 46 23.39	25 47.33	8 20 35.6	2 5 25.4	8.22257	269	15 38.4
8.5	22 12 10.72	25 54.20	6 15 10.2	+2 11 42.8	8.22526	+255	15 44.2
		26 3.83	- 4 3 27.4	2 16 20.0	8.22781	238	15 49.8
9.0	22 38 4.92	26 16.50	- 1 47 7.4	2 19 7.4	8.23019	215	15 55.0
9.5	23 4 8.75	26 32.31	+ 0 32 0.0	2 19 55.6	8.23234	189	15 59.7
10.0	23 30 25.25	26 51.28	2 51 55.6	2 18 37.6	8.23423	160	16 3.9
10.5	23 56 57.56	27 13.04	5 10 33.2	2 15 7.7	8.23583	131	16 7.5
11.0	0 23 48.84	27 37.14	7 25 40.9	2 9 23.4	8.23714	98	16 10.4
11.5	0 51 1.88	28 2.80	9 35 4.3	2 1 24.8	8.23812	67	16 12.6
12.0	1 18 39.02	28 28.94	11 36 29.1	1 51 15.5	8.23879	37	16 14.1
12.5	1 46 41.82	28 54.36	13 27 44.6	1 39 2.8	8.23916	+ 8	16 14.9
13.0	2 15 10.76	29 17.62	15 6 47.4	+1 24 58.6	8.23924	- 18	16 15.1
13.5	2 44 5.12	29 37.14	+16 31 46.0	1 9 18.1	8.23906	42	16 14.7
14.0	3 13 22.74	29 51.58	17 41 4.1	0 52 20.9	8.23864	65	16 13.8
14.5	3 42 59.88	29 59.69	18 33 25.0	0 34 29.3	8.23799	82	16 12.3
15.0	4 12 51.46	30 0.66	19 7 54.3	+0 16 7.7	8.23717	98	16 10.5
15.5	4 42 51.15	29 54.20	19 24 2.0	-0 2 18.3	8.23619	112	16 8.3
16.0	5 12 51.81	29 40.43	19 21 43.7	0 20 24.1	8.23507	122	16 5.8
16.5	5 42 46.01	29 20.09	19 1 19.6	0 37 46.6	8.23385	133	16 3.1
17.0	6 12 26.44	28 54.35	18 23 33.0	0 54 6.4	8.23252	141	16 0.1
17.5	6 41 46.53	28 24.59	17 29 26.6	1 9 7.4	8.23111	148	15 57.0
18.0	7 10 40.88		16 20 19.2		8.22963		15 53.8
18.5	7 39 5.47						

März 1 23^h 33^m 0 Letztes Viertel. März 9 15^h 43^m 8 Neumond. März 16 11^h 6^m 4 Erstes Viertel.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl.-Sterne		
							AR.	Decl.	Gr.
Febr. 27	U 3 ^h 54.8 ^m	14 ^h 20 ^m 48 ^s	+63.61	124.38	-13° 53.3'	- 7.4	14 ^h 13.8 ^m	-12° 55'	4.6
	O 16 17.7	14 45 45	+63.82	125.12	-15 17.5	- 6.6	14 40.6	-15 3	6.2
28	U 4 40.8	15 10 51	+64.07	125.99	-16 30.7	- 5.6	15 9.1	-17 24	6.5
	O 17 4.0	15 36 8	+64.35	126.95	-17 32.4	- 4.6	15 15.4	-17 48	6.0
März 1	U 5 27.5	16 1 37	+64.62	127.93	-18 21.7	- 3.6	15 59.8	-19 32	3.0
	O 17 51.1	16 27 18	+64.87	128.89	-18 58.2	- 2.5	16 6.3	-19 12	4.5
2	U 6 14.9	16 53 10	+65.10	129.78	-19 21.4	- 1.4	16 36.2	-19 44	5.7
	O 18 38.9	17 19 12	+65.31	130.58	-19 30.9	- 0.2	16 56.1	-18 45	6.5
3	U 7 3.0	17 45 22	+65.46	131.24	-19 26.4	+ 1.0	17 50.2	-18 47	6.5
	O 19 27.3	18 11 40	+65.57	131.75	-19 7.6	+ 2.2	17 54.2	-20 20	6.5
4	U 7 51.7	18 38 4	+65.65	132.11	-18 34.6	+ 3.4	18 37.2	-19 23	6.5
	O 20 16.1	19 4 30	+65.68	132.35	-17 47.5	+ 4.5	18 57.3	-19 23	5.9
5	U 8 40.5	19 30 59	+65.67	132.46	-16 46.4	+ 5.7			
	O 21 5.0	19 57 29	+65.65	132.52	-15 31.8	+ 6.8			
6	U 9 29.5	20 24 0	+65.62	132.56	-14 4.4	+ 7.8			
	O 21 53.9	20 50 31	+65.61	132.62	-12 24.8	+ 8.8			
7	U 10 18.4	21 17 3	+65.62	132.78	-10 34.1	+ 9.7			
	O 22 43.0	21 43 38	+65.67	133.09	- 8 33.6	+10.4			
8	U 11 7.6	22 10 18	+65.78	133.59	- 6 24.5	+11.1			
	O 23 32.4	22 37 5	+65.94	134.34	- 4 8.6	+11.6			
9	U 11 57.3	23 4 3	+66.20	135.37	- 1 47.7	+11.9			
10	O 0 22.4	23 31 14	-66.53	136.64	+ 0 36.3	+12.1			
	U 12 47.9	23 58 44	-66.96	138.26	+ 3 1.2	+12.0			
11	O 1 13.7	0 26 35	-67.45	140.18	+ 5 24.6	+11.8			
	U 13 39.9	0 54 50	-68.01	142.34	+ 7 44.0	+11.4			
12	O 2 6.6	1 23 33	-68.61	144.69	+ 9 57.1	+10.7			
	U 14 33.7	1 52 44	-69.24	147.14	+12 1.2	+ 9.9			
13	O 3 1.3	2 22 25	-69.87	149.55	+13 53.9	+ 8.9			
	U 15 29.4	2 52 34	-70.44	151.80	+15 33.0	+ 7.6			
14	O 3 58.0	3 23 8	-70.93	153.73	+16 56.5	+ 6.2	2 46.1	+14 41	5.5
	U 16 26.9	3 54 2	-71.30	155.18	+18 2.5	+ 4.7	2 59.2	+15 29	6.5
15	O 4 55.9	4 25 11	-71.52	156.03	+18 49.8	+ 3.1	3 47.6	+17 2	6.0
	U 17 25.1	4 56 25	-71.57	156.18	+19 17.5	+ 1.5	3 55.2	+17 55	5.7
16	O 5 54.2	5 27 36	-71.44	155.60	+19 25.2	- 0.2	4 45.7	+18 40	5.1
	U 18 23.2	5 58 36	-71.12	154.31	+19 13.1	- 1.8	4 59.8	+19 40	6.5
17	O 6 51.8	6 29 16	-70.65	152.38	+18 41.8	- 3.4	5 58.1	+20 8	4.8
	U 19 20.0	6 59 29	-70.03	149.94	+17 52.4	- 4.8	6 6.2	+19 49	5.6
18	O 7 47.6	7 29 12	-69.33	147.11	+16 46.2	- 6.2	6 57.0	+16 49	6.5
	U 20 14.7	7 58 18	-68.54	144.07	+15 24.9	- 7.4	7 7.8	+16 20	5.4

März 1 10^h Apogaeum.

März 13 9^h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
März 18.0	7 ^h 10 ^m 40.88		+17° 29' 26.6"		8.23111		15' 57.0"
18.5	7 39 5.47	28 ^m 24.59	16 20 19.2	-1 9 7.4	8.22963	-148	15 53.8
19.0	8 6 57.75	27 52.28	14 57 42.5	1 22 36.7	8.22809	154	15 50.4
19.5	8 34 16.68	27 18.93	13 23 16.0	1 34 26.5	8.22648	161	15 46.9
20.0	9 1 2.58	26 45.90	11 38 43.9	1 44 32.1	8.22481	167	15 43.3
20.5	9 27 16.92	25 45.14	9 45 53.2	1 52 50.7	8.22309	172	15 39.5
21.0	9 53 2.06	25 18.97	7 46 30.6	1 59 22.6	8.22131	178	15 35.7
21.5	10 18 21.03	24 56.35	5 42 21.4	2 4 9.2	8.21948	183	15 31.8
22.0	10 43 17.38	24 37.46	3 35 7.0	2 7 14.4	8.21762	186	15 27.8
22.5	11 7 54.84	24 22.46	+ 1 26 26.2	2 8 40.8	8.21572	190	15 23.7
23.0	11 32 17.30	24 11.31	- 0 42 7.7	-2 8 33.9	8.21380	-192	15 19.6
23.5	11 56 28.61	24 3.83	2 49 5.5	2 6 57.8	8.21187	193	15 15.5
24.0	12 20 32.44	23 59.83	4 53 3.3	2 3 57.8	8.20995	192	15 11.5
24.5	12 44 32.27	23 58.95	6 52 42.3	1 59 39.0	8.20808	187	15 7.6
25.0	13 8 31.22	24 0.84	8 46 49.2	1 54 6.9	8.20627	181	15 3.8
25.5	13 32 32.06	24 5.02	10 34 16.0	1 47 26.8	8.20455	172	15 0.3
26.0	13 56 37.08	24 11.06	12 13 59.9	1 39 43.9	8.20295	160	14 57.0
26.5	14 20 48.14	24 18.39	13 45 3.8	1 31 3.9	8.20149	146	14 54.0
27.0	14 45 6.53	24 26.56	15 6 35.9	1 21 32.1	8.20022	127	14 51.3
27.5	15 9 33.09	24 35.02	16 17 50.7	1 11 14.8	8.19915	107	14 49.1
28.0	15 34 8.11	24 43.31	-17 18 7.3	-1 0 16.6	8.19833	-82	14 47.5
28.5	15 58 51.42	24 50.93	18 6 51.3	0 48 44.0	8.19776	57	14 46.3
29.0	16 23 42.35	24 57.59	18 43 34.2	0 36 42.9	8.19748	-28	14 45.7
29.5	16 48 39.94	25 3.05	19 7 52.8	0 24 18.6	8.19750	+ 2	14 45.8
30.0	17 13 42.99	25 7.17	19 19 30.7	-0 11 37.9	8.19785	35	14 46.5
30.5	17 38 50.16	25 9.89	19 18 17.1	+0 1 13.6	8.19852	67	14 47.8
31.0	18 4 0.05	25 11.35	19 4 7.4	0 14 9.7	8.19953	101	14 49.9
31.5	18 29 11.40	25 11.82	18 37 2.7	0 27 4.7	8.20088	135	14 52.7
April 1.0	18 54 23.22	25 11.64	17 57 10.4	0 39 52.3	8.20256	168	14 56.2
1.5	19 19 34.86	25 11.26	17 4 44.0	0 52 26.4	8.20457	201	15 0.3
2.0	19 44 46.12	25 11.18	-16 0 3.0	+1 4 41.0	8.20686	+229	15 5.1
2.5	20 9 57.30	25 11.97	14 43 33.3	1 16 29.7	8.20943	257	15 10.4
3.0	20 35 9.27	25 14.19	13 15 47.6	1 27 45.7	8.21224	281	15 16.3
3.5	21 0 23.46	25 18.44	11 37 26.4	1 38 21.2	8.21525	301	15 22.7
4.0	21 25 41.90	25 25.17	9 49 18.1	1 48 8.3	8.21842	317	15 29.5
4.5	21 51 7.07	25 34.92	7 52 20.6	1 56 57.5	8.22167	325	15 36.5
5.0	22 16 41.99	25 48.04	5 47 42.1	2 4 38.5	8.22496	329	15 43.6
5.5	22 42 30.03	26 4.79	3 36 42.3	2 10 59.8	8.22821	325	15 50.7
6.0	23 8 34.82	26 25.35	- 1 20 53.1	2 15 49.2	8.23137	316	15 57.6
6.5	23 35 0.17		+ 0 58 0.8	2 18 53.9	8.23434	297	16 4.2

März 23 16^h 14.9 Vollmond.März 31 19^h 17.6 Letztes Viertel.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg. -D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl.-Sterne		
							AR.	Decl.	Gr.
März 18	O 7 ^h 47.6 ^m	7 ^h 29 ^m 12 ^s	-69.33	147.11	+16° 46.2'	- 6.2	6 ^h 57.0 ^m	+16° 49'	6.5
	U 20 14.7	7 58 18	-68.54	144.07	+15 24.9	- 7.4	7 7.8	+16 20	5.4
19	O 8 41.1	8 26 47	-67.74	140.96	+13 50.4	- 8.4	7 56.0	+16 44	6.4
	U 21 7.0	8 54 39	-66.94	137.91	+12 4.6	- 9.2	8 3.3	+13 56	6.5
20	O 9 32.2	9 21 56	-66.18	135.02	+10 9.6	- 9.9	8 53.2	+12 14	4.3
	U 21 56.9	9 48 40	-65.49	132.40	+ 8 7.3	-10.4	9 2.5	+11 4	5.0
21	O 10 21.1	10 14 54	-64.86	130.09	+ 5 59.6	-10.8	9 36.0	+10 20	3.8
	U 22 44.9	10 40 42	-64.32	128.12	+ 3 48.5	-11.0	9 51.3	+ 9 24	6.0
22	O 11 8.3	11 6 9	-63.90	126.52	+ 1 35.7	-11.1	10 40.1	+ 3 0	6.5
	U 23 31.4	11 31 19	-63.56	125.29	- 0 37.0	-11.0	10 55.5	+ 4 9	5.0
23	O 11 54.3	11 56 17	-63.33	124.43	- 2 48.1	-10.8	11 32.0	- 0 17	4.5
	U 0 17.1	12 21 7	+63.19	123.89	- 4 56.0	-10.5	11 44.1	+ 0 14	6.5
24	O 12 39.8	12 45 52	+63.14	123.68	- 6 59.2	-10.0	12 22.9	- 4 4	5.7
	U 1 2.5	13 10 36	+63.17	123.76	- 8 56.4	- 9.5	12 26.7	- 4 31	6.3
25	O 13 25.3	13 35 23	+63.28	124.08	-10 46.5	- 8.8	13 4.7	- 9 48	6.5
	U 1 48.1	14 0 15	+63.44	124.58	-12 28.2	- 8.1	13 20.1	-10 39	1.2
26	O 14 11.1	14 25 13	+63.63	125.22	-14 0.6	- 7.3	14 13.8	-12 55	4.6
	U 2 34.2	14 50 20	+63.85	125.95	-15 22.7	- 6.4	14 45.5	-15 38	3.0
27	O 14 57.4	15 15 36	+64.09	126.73	-16 33.7	- 5.4	15 1.2	-15 53	5.4
	U 3 20.8	15 41 1	+64.32	127.51	-17 32.9	- 4.4	15 33.3	-18 59	5.7
28	O 15 44.3	16 6 35	+64.55	128.22	-18 19.6	- 3.4	15 44.3	-17 36	6.5
	U 4 7.9	16 32 17	+64.75	128.85	-18 53.4	- 2.3	16 21.4	-18 14	5.0
29	O 16 31.7	16 58 7	+64.91	129.37	-19 13.8	- 1.1	16 35.9	-17 33	5.2
	U 4 55.6	17 24 1	+65.03	129.76	-19 20.6	- 0.0	17 14.2	-17 39	6.0
30	O 17 19.6	17 50 0	+65.12	130.02	-19 13.6	+ 1.2	17 18.9	-18 21	6.3
	U 5 43.5	18 16 1	+65.17	130.14	-18 52.8	+ 2.3	17 18.9	-18 21	var.
31	O 18 7.5	18 42 3	+65.18	130.19	-18 18.3	+ 3.5	18 22.3	-17 52	6.7
	U 6 31.5	19 8 5	+65.17	130.16	-17 30.2	+ 4.6	18 15.6	-18 54	var.
April 1	O 18 55.5	19 34 7	+65.15	130.13	-16 28.9	+ 5.7	19 1.4	-18 53	6.5
	U 7 19.5	20 0 9	+65.13	130.13	-16 28.9	+ 5.7	19 16.0	-18 2	3.9
2	O 19 43.5	20 26 11	+65.14	130.21	-15 14.7	+ 6.7	19 52.4	-15 45	5.0
	U 8 7.5	20 52 14	+65.18	130.44	-13 48.3	+ 7.7	20 15.3	-15 6	6.7
3	O 20 31.6	21 18 22	+65.25	130.88	-12 10.3	+ 8.6	20 47.7	-11 57	6.5
	U 8 55.8	21 44 36	+65.40	131.57	-10 21.6	+ 9.5	21 4.3	-11 46	4.6
4	O 21 20.2	22 11 0	+65.61	132.55	- 8 23.1	+10.3	21 20.2	- 8 23.1	+10.3
	U 9 44.8	22 37 38	+65.91	133.87	- 6 16.0	+10.9	22 11.0	- 6 16.0	+10.9
5	O 22 9.6	23 4 34	+66.31	135.54	- 4 1.7	+11.4	22 9.6	- 4 1.7	+11.4
	U 10 34.9	23 31 52	+66.80	137.58	- 1 42.0	+11.8	23 4.3	- 1 42.0	+11.8
6	O 23 0.6	23 59 36	+67.37	139.97	+ 0 41.5	+12.1	23 0.6	+ 0 41.5	+12.1
	U 23 0.6	23 59 36	+67.37	139.97	+ 3 6.5	+12.1	23 0.6	+ 3 6.5	+12.1

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
April 6.0	23 ^h 8 ^m 34.82	26 ^m 25.35	- 1° 20' 53.1	+2° 18' 53.9	8.23137	+297	15 57.6
6.5	23 35 0.17	26 49.61	+ 0 58 0.8	2 20 0.7	8.23434	274	16 4.2
7.0	0 1 49.78	27 17.31	3 18 1.5	2 18 57.5	8.23708	243	16 10.3
7.5	0 29 7.09	27 47.84	5 36 59.0	2 15 33.6	8.23951	206	16 15.7
8.0	0 56 54.93	28 20.39	7 52 32.6	2 9 41.3	8.24157	166	16 20.3
8.5	1 25 15.32	28 53.75	10 2 13.9	2 1 17.7	8.24323	123	16 24.1
9.0	1 54 9.07	29 26.27	12 3 31.6	1 50 24.0	8.24446	76	16 26.9
9.5	2 23 35.34	29 56.29	13 53 55.6	1 37 8.7	8.24522	+ 30	16 28.6
10.0	2 53 31.63	30 21.81	15 31 4.3	1 21 46.5	8.24552	- 15	16 29.3
10.5	3 23 53.44	30 40.87	16 52 50.8	+1 4 39.0	8.24537	- 58	16 29.0
11.0	3 54 34.31	30 51.94	+17 57 29.8	0 46 13.5	8.24479	97	16 27.7
11.5	4 25 26.25	30 53.88	18 43 43.3	0 27 1.3	8.24382	132	16 25.5
12.0	4 56 20.13	30 46.20	19 10 44.6	+0 7 35.1	8.24250	163	16 22.5
12.5	5 27 6.33	30 29.26	19 18 19.7	-0 11 33.4	8.24087	187	16 18.8
13.0	5 57 35.59	30 4.01	19 6 46.3	0 29 54.9	8.23900	207	16 14.6
13.5	6 27 39.60	29 32.04	18 36 51.4	0 47 5.3	8.23693	221	16 10.0
14.0	6 57 11.64	28 55.24	17 49 46.1	1 2 47.6	8.23472	231	16 5.0
14.5	7 26 6.88	28 15.59	16 46 58.5	1 16 49.0	8.23241	236	15 59.9
15.0	7 54 22.47	27 35.07	15 30 9.5	1 29 3.2	8.23005	239	15 54.7
15.5	8 21 57.54	26 55.28	14 1 6.3	-1 39 27.8	8.22766	-237	15 49.5
16.0	8 48 52.82	26 17.62	+12 21 38.5	1 48 4.3	8.22529	234	15 44.3
16.5	9 15 10.44	25 43.19	10 33 34.2	1 54 55.4	8.22295	228	15 39.2
17.0	9 40 53.63	25 12.67	8 38 38.8	2 0 5.9	8.22067	222	15 34.3
17.5	10 6 6.30	24 46.56	6 38 32.9	2 3 40.3	8.21845	214	15 29.5
18.0	10 30 52.86	24 25.09	4 34 52.6	2 5 44.2	8.21631	207	15 25.0
18.5	10 55 17.95	24 8.31	2 29 8.4	2 6 21.2	8.21424	198	15 20.6
19.0	11 19 26.26	23 56.15	+ 0 22 47.2	2 5 35.8	8.21226	189	15 16.4
19.5	11 43 22.41	23 48.34	- 1 42 48.6	2 3 32.1	8.21037	180	15 12.4
20.0	12 7 10.75	23 44.58	3 46 20.7	2 0 13.1	8.20857	171	15 8.6
20.5	12 30 55.33	23 44.52	5 46 33.8	-1 55 42.0	8.20686	-161	15 5.1
21.0	12 54 39.85	23 47.57	- 7 42 15.8	1 50 2.0	8.20525	151	15 1.7
21.5	13 18 27.42	23 53.31	9 32 17.8	1 43 16.4	8.20374	141	14 58.6
22.0	13 42 20.73	24 1.09	11 15 34.2	1 35 28.9	8.20233	129	14 55.7
22.5	14 6 21.82	24 10.28	12 51 3.1	1 26 43.6	8.20104	116	14 53.0
23.0	14 30 32.10	24 20.24	14 17 46.7	1 17 5.2	8.19988	101	14 50.6
23.5	14 54 52.34	24 30.28	15 34 51.9	1 6 39.1	8.19887	86	14 48.6
24.0	15 19 22.62	24 39.81	16 41 31.0	0 55 30.9	8.19801	68	14 46.8
24.5	15 44 2.43	24 48.23	17 37 1.9	0 43 47.8	8.19733	49	14 45.4
25.0	16 8 50.66	24 55.08	18 20 49.7	0 31 37.2	8.19684	28	14 44.4
25.5	16 33 45.74		18 52 26.9		8.19656		14 43.9

April 8 2^h 43.7 Neumond. April 14 18^h 19.3 Erstes Viertel. April 22 7^h 43.2 Vollmond.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg. -D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. -Sterne		
							AR.	Decl.	Gr.
April 6 U	10 ^h 34.9 ^m	23 ^h 31 ^m 52 ^s	+66.80	137.58	+ 0° 41.5'	+12.1			
0	23 0.6	23 59 36	+67.37	139.97	+ 3 6.5	+12.1			
7 U	11 26.8	0 27 51	+68.04	142.68	+ 5 30.6	+11.9			
0	23 53.6	0 56 40	+68.76	145.64	+ 7 51.4	+11.5			
8 U	12 21.0	1 26 5	-69.51	148.63	+10 5.9	+10.9			
—	—	—	—	—	—	—			
9 0	0 49.0	1 56 8	-70.28	151.73	+12 11.4	+10.0			
U	13 17.6	2 26 48	-71.00	154.68	+14 5.1	+ 8.9			
10 0	1 46.8	2 58 0	-71.64	157.27	+15 44.2	+ 7.6			
U	14 16.4	3 29 41	-72.15	159.31	+17 6.5	+ 6.1			
11 0	2 46.3	4 1 42	-72.47	160.60	+18 9.9	+ 4.4			
U	15 16.4	4 33 52	-72.61	161.03	+18 53.0	+ 2.7			
12 0	3 46.6	5 6 2	-72.52	160.51	+19 15.2	+ 1.0			
U	16 16.5	5 38 0	-72.19	159.06	+19 16.4	- 0.8			
13 0	4 46.0	6 9 36	-71.68	156.78	+18 57.0	- 2.4	^{h m} 5 31.8	+21° 5'	3.0
U	17 15.0	6 40 39	-70.98	153.82	+18 18.3	- 4.0	5 41.7	+17 42	5.5
14 0	5 43.4	7 11 4	-70.16	150.38	+17 21.7	- 5.4	6 36.7	+17 44	5.1
U	18 11.0	7 40 46	-69.26	146.68	+16 9.0	- 6.7	6 41.7	+18 18	6.5
15 0	6 37.9	8 9 42	-68.32	142.89	+14 42.4	- 7.8	7 33.8	+17 54	5.2
U	19 4.1	8 37 54	-67.39	139.19	+13 3.7	- 8.7	7 51.5	+16 3	5.9
16 0	7 29.5	9 5 22	-66.49	135.72	+11 15.1	- 9.4	8 37.8	+13 2	5.6
U	19 54.3	9 32 11	-65.67	132.58	+ 9 18.6	-10.0	8 41.6	+12 28	5.8
17 0	8 18.5	9 58 24	-64.93	129.82	+ 7 16.0	-10.4	9 26.7	+10 9	5.4
U	20 42.2	10 24 7	-64.30	127.49	+ 5 9.1	-10.7	9 36.0	+10 20	3.8
18 0	9 5.4	10 49 24	-63.77	125.61	+ 2 59.7	-10.9	10 17.9	+ 7 2	6.5
U	21 28.3	11 14 22	-63.38	124.19	+ 0 49.4	-10.9	10 38.3	+ 5 16	6.1
19 0	9 51.0	11 39 6	-63.08	123.19	- 1 20.4	-10.8	11 13.9	+ 2 11	6.5
U	22 13.6	12 3 40	-62.90	122.59	- 3 28.3	-10.5	11 18.3	+ 0 40	6.2
20 0	10 36.0	12 28 9	-62.81	122.37	- 5 32.7	-10.2	12 1.0	- 2 35	6.4
U	22 58.5	12 52 38	-62.83	122.48	- 7 32.6	- 9.8	12 13.2	- 3 24	6.8
21 0	11 21.0	13 17 10	-62.92	122.86	- 9 26.5	- 9.2	12 49.3	- 9 0	5.0
U	23 43.6	13 41 48	-63.08	123.49	-11 13.3	- 8.6	13 3.5	- 8 28	5.9
22 0	12 6.3	14 6 35	+63.28	124.31	-12 51.9	- 7.8	13 40.8	-11 56	6.0
—	—	—	—	—	—	—	14 3.3	-11 22	6.5
23 U	0 29.2	14 31 31	+63.52	125.19	-14 21.1	- 7.0	14 40.6	-15 3	6.2
0	12 52.3	14 56 39	+63.77	126.12	-15 40.1	- 6.1	14 44.0	-13 44	5.4
24 U	1 15.6	15 21 58	+64.03	127.03	-16 47.9	- 5.2	15 22.8	-16 22	6.2
0	13 39.0	15 47 27	+64.26	127.85	-17 43.8	- 4.2	15 27.4	-16 31	5.4
25 U	2 2.6	16 13 5	+64.48	128.53	-18 27.1	- 3.1	16 13.4	-19 59	6.0
0	14 26.4	16 38 50	+64.64	129.04	-18 57.4	- 2.0	16 18.4	-19 49	4.6

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
April 25.0	16 ^h 8 ^m 50.66	^m 55.08	-18° 20' 49.7"	-0° 31' 37.2"	8.19684	- 28	14 44.4
25.5	16 33 45.74	25 0.02	18 52 26.9	0 19 5.9	8.19656	- 4	14 43.9
26.0	16 58 45.76	25 2.90	19 11 32.8	-0 6 22.2	8.19652	+ 20	14 43.8
26.5	17 23 48.66	25 3.67	19 17 55.0	+0 6 26.2	8.19672	48	14 44.2
27.0	17 48 52.33	25 2.47	19 11 28.8	0 19 12.3	8.19720	75	14 45.2
27.5	18 13 54.80	24 59.68	18 52 16.5	0 31 49.1	8.19795	105	14 46.7
28.0	18 38 54.48	24 55.72	18 20 27.4	0 44 10.2	8.19900	135	14 48.8
28.5	19 3 50.20	24 51.22	17 36 17.2	0 56 9.7	8.20035	166	14 51.6
29.0	19 28 41.42	24 46.76	16 40 7.5	1 7 42.7	8.20201	197	14 55.0
29.5	19 53 28.18	24 43.10	15 32 24.8	+1 18 44.0	8.20398	+227	14 59.1
30.0	20 18 11.28	24 40.95	-14 13 40.8	1 29 9.4	8.20625	255	15 3.8
30.5	20 42 52.23	24 41.02	12 44 31.4	1 38 53.3	8.20880	282	15 9.1
Mai 1.0	21 7 33.25	24 43.96	11 5 38.1	1 47 50.3	8.21162	305	15 15.0
1.5	21 32 17.21	24 50.38	9 17 47.8	1 55 54.8	8.21467	326	15 21.5
2.0	21 57 7.59	25 0.80	7 21 53.0	2 2 58.3	8.21793	342	15 28.4
2.5	22 22 8.39	25 15.68	5 18 54.7	2 8 52.7	8.22135	351	15 35.8
3.0	22 47 24.07	25 35.35	3 10 2.0	2 13 26.9	8.22486	355	15 43.4
3.5	23 12 59.42	25 59.98	- 0 56 35.1	2 16 28.6	8.22841	352	15 51.1
4.0	23 38 59.40	26 29.53	+ 1 19 53.5	2 17 44.6	8.23193	343	15 58.9
4.5	0 5 28.93	27 3.70	3 37 38.1	+2 17 0.5	8.23536	+323	16 6.5
5.0	0 32 32.63	27 41.90	+ 5 54 38.6	2 14 2.1	8.23859	296	16 13.7
5.5	1 0 14.53	28 23.17	8 8 40.7	2 8 36.7	8.24155	263	16 20.3
6.0	1 28 37.70	29 6.02	10 17 17.4	2 0 35.3	8.24418	222	16 26.3
6.5	1 57 43.72	29 48.60	12 17 52.7	1 49 53.1	8.24640	174	16 31.3
7.0	2 27 32.32	30 28.55	14 7 45.8	1 36 33.3	8.24814	122	16 35.3
7.5	2 58 0.87	31 3.34	15 44 19.1	1 20 47.7	8.24936	66	16 38.1
8.0	3 29 4.21	31 30.34	17 5 6.8	1 2 56.8	8.25002	+ 11	16 39.6
8.5	4 0 34.55	31 47.26	18 8 3.6	0 43 31.7	8.25013	- 45	16 39.9
9.0	4 32 21.81	31 52.48	18 51 35.3	0 23 8.4	8.24968	98	16 38.9
9.5	5 4 14.29	31 45.31	19 14 43.7	+0 2 28.2	8.24870	-148	16 36.6
10.0	5 35 59.60	31 26.01	+19 17 11.9	-0 17 48.6	8.24722	191	16 33.2
10.5	6 7 25.61	30 56.06	18 59 23.3	0 37 5.0	8.24531	229	16 28.9
11.0	6 38 21.67	30 17.56	18 22 18.3	0 54 51.0	8.24302	258	16 23.7
11.5	7 8 39.23	29 33.14	17 27 27.3	1 10 46.0	8.24044	283	16 17.8
12.0	7 38 12.37	28 45.41	16 16 41.3	1 24 37.4	8.23761	299	16 11.5
12.5	8 6 57.78	27 56.91	14 52 3.9	1 36 20.6	8.23462	308	16 4.8
13.0	8 34 54.69	27 9.67	13 15 43.3	1 45 56.3	8.23154	312	15 58.0
13.5	9 2 4.36	26 25.41	11 29 47.0	1 53 30.7	8.22842	310	15 51.1
14.0	9 28 29.77	25 45.32	9 36 16.3	1 59 11.4	8.22532	303	15 44.4
14.5	9 54 15.09		7 37 4.9		8.22229		15 37.8

April 30 11^h 51.6 Letztes Viertel.Mai 7 11^h 38.8 Neumond.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl.-Sterne		
							AR.	Decl.	Gr.
April 25	U 2 ^h 2.6 ^m	16 ^h 13 ^m 5 ^s	+64.48	128.53	-18° 27.1'	- 3.1	16 ^h 13.4 ^m	-19° 59'	6.0
	0 14 26.4	16 38 50	+64.64	129.04	-18 57.4	- 2.0	16 18.4	-19 49	4.6
26	U 2 50.2	17 4 41	+64.76	129.36	-19 14.2	- 0.9	16 59.0	-20 21	6.5
	0 15 14.0	17 30 34	+64.82	129.47	-19 17.4	+ 0.3	17 14.2	-17 39	6.0
27	U 3 37.9	17 56 27	+64.84	129.39	-19 7.0	+ 1.4	17 54.2	-20 20	6.5
	0 16 1.7	18 22 19	+64.80	129.15	-18 43.0	+ 2.6	18 9.4	-20 25	6.2
28	U 4 25.4	18 48 6	+64.74	128.80	-18 5.6	+ 3.7	18 37.2	-19 23	6.5
	0 16 49.1	19 13 50	+64.67	128.38	-17 15.1	+ 4.9	18 57.3	-19 23	5.9
29	U 5 12.7	19 39 28	+64.58	127.97	-16 12.1	+ 5.9	19 38.0	-15 42	5.5
	0 17 36.3	20 5 1	+64.49	127.62	-14 57.0	+ 6.8	19 52.4	-15 45	5.0
30	U 5 59.7	20 30 31	+64.45	127.43	-13 30.4	+ 7.7	20 28.8	-14 4	6.2
	0 18 23.1	20 56 0	+64.45	127.44	-11 53.1	+ 8.5	20 45.3	-12 54	6.3
Mai 1	U 6 46.6	21 21 31	+64.51	127.74	-10 5.8	+ 9.3	21 20.0	-10 10	5.7
	0 19 10.2	21 47 7	+64.67	128.35	- 8 9.5	+10.1	21 32.6	- 8 18	4.8
2	U 7 33.9	22 12 52	+64.91	129.36	- 6 5.1	+10.7	22 12.0	- 5 53	5.9
	0 19 57.9	22 38 52	+65.26	130.82	- 3 53.9	+11.2	22 19.0	- 5 20	5.8
3	U 8 22.2	23 5 13	+65.72	132.71	- 1 37.3	+11.6	22 53.2	- 2 55	6.3
	0 20 46.9	23 31 58	+66.29	135.09	+ 0 43.1	+11.8	23 21.9	+ 0 43	5.0
4	U 9 12.1	23 59 16	+66.99	137.96	+ 3 5.5	+11.9			
	0 21 38.0	0 27 9	+67.78	141.26	+ 5 27.8	+11.8			
5	U 10 4.6	0 55 45	+68.66	144.93	+ 7 47.5	+11.5			
	0 22 31.9	1 25 7	+69.60	148.86	+10 1.9	+10.9			
6	U 11 0.0	1 55 17	+70.56	152.91	+12 8.2	+10.1			
	0 23 28.9	2 26 14	+71.49	156.84	+14 3.3	+ 9.0			
7	U 11 58.6	2 57 56	-72.33	160.28	+15 44.1	+ 7.7			
	0 0 28.9	3 30 20	-73.03	163.23	+17 8.0	+ 6.2			
8	U 12 59.7	4 3 12	-73.51	165.30	+18 12.4	+ 4.5			
	0 1 30.8	4 36 23	-73.75	166.27	+18 55.6	+ 2.7			
9	U 14 2.0	5 9 38	-73.71	166.03	+19 16.6	+ 0.8			
	0 2 33.0	5 42 42	-73.40	164.57	+19 15.1	- 1.0			
10	U 15 3.6	6 15 22	-72.82	161.99	+18 51.7	- 2.8			
	0 3 33.6	6 47 25	-72.03	158.52	+18 7.8	- 4.5			
11	U 16 2.9	7 18 43	-71.08	154.42	+17 5.3	- 5.9			
	0 4 31.3	7 49 8	-70.04	149.96	+15 46.3	- 7.2	7 12.5	+16 43	3.6
12	U 16 58.7	8 18 39	-68.94	145.42	+14 13.4	- 8.3	7 26.2	+17 18	5.6
	0 5 25.3	8 47 17	-67.87	141.00	+12 28.9	- 9.2	8 12.7	+15 59	6.5
13	U 17 51.0	9 15 3	-66.84	136.88	+10 35.3	- 9.8	8 21.3	+12 59	5.6
	0 6 15.9	9 42 1	-65.89	133.15	+ 8 34.6	-10.3	9 2.5	+11 4	5.0
14	U 18 40.2	10 8 19	-65.06	129.92	+ 6 29.0	-10.6	9 23.2	+ 9 29	5.6

April 25 20^h Apogaeum.

Mai 8 8^h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Mai 14.0	9 ^h 28 ^m 29.77	^m 25 45.32	+ 9° 36' 16.3"	-1° 59' 11.4"	8.22532	-303	15 44.4
14.5	9 54 15.09	25 10.16	7 37 4.9	2 3 7.5	8.22229	293	15 37.8
15.0	10 19 25.25	24 40.41	5 33 57.4	2 5 27.5	8.21936	280	15 31.5
15.5	10 44 5.66	24 16.23	3 28 29.9	2 6 19.6	8.21656	264	15 25.5
16.0	11 8 21.89	23 57.63	+ 1 22 10.3	2 5 50.9	8.21392	247	15 19.9
16.5	11 32 19.52	23 44.40	- 0 43 40.6	2 4 7.6	8.21145	229	15 14.7
17.0	11 56 3.92	23 36.27	2 47 48.2	2 1 13.8	8.20916	209	15 9.9
17.5	12 19 40.19	23 32.78	4 49 2.0	1 57 13.3	8.20707	192	15 5.5
18.0	12 43 12.97	23 33.49	6 46 15.3	1 52 8.9	8.20515	173	15 1.5
18.5	13 6 46.46	23 37.86	8 38 24.2	-1 46 2.9	8.20342	-153	14 57.9
19.0	13 30 24.32	23 45.16	-10 24 27.1	1 38 57.8	8.20189	136	14 54.8
19.5	13 54 9.48	23 54.81	12 3 24.9	1 30 55.0	8.20053	118	14 52.0
20.0	14 18 4.29	24 5.98	13 34 19.9	1 21 58.1	8.19935	101	14 49.6
20.5	14 42 10.27	24 17.91	14 56 18.0	1 12 10.2	8.19834	84	14 47.5
21.0	15 6 28.18	24 29.80	16 8 28.2	1 1 35.5	8.19750	66	14 45.8
21.5	15 30 57.98	24 40.91	17 10 3.7	0 50 19.7	8.19684	50	14 44.4
22.0	15 55 38.89	24 50.53	18 0 23.4	0 38 28.9	8.19634	33	14 43.4
22.5	16 20 29.42	24 58.07	18 38 52.3	0 26 10.0	8.19601	-14	14 42.7
23.0	16 45 27.49	25 3.09	19 5 2.3	0 13 33.4	8.19587	+ 4	14 42.4
23.5	17 10 30.58	25 5.36	19 18 35.7	-0 0 44.6	8.19591	+ 23	14 42.5
24.0	17 35 35.94	25 4.85	-19 19 20.3	+0 12 5.4	8.19614	43	14 43.0
24.5	18 0 40.79	25 1.75	19 7 14.9	0 24 48.1	8.19657	65	14 43.9
25.0	18 25 42.54	24 56.44	18 42 26.8	0 37 15.5	8.19722	87	14 45.2
25.5	18 50 38.98	24 49.50	18 5 11.3	0 49 20.2	8.19809	110	14 47.0
26.0	19 15 28.48	24 41.61	17 15 51.1	1 0 56.3	8.19919	134	14 49.2
26.5	19 40 10.09	24 33.53	16 14 54.8	1 11 57.3	8.20053	160	14 52.0
27.0	20 4 43.62	24 26.15	15 2 57.5	1 22 18.7	8.20213	186	14 55.3
27.5	20 29 9.77	24 28.26	13 40 38.8	1 31 57.3	8.20399	211	14 59.1
28.0	20 53 30.03	24 16.67	12 8 41.5	1 40 48.4	8.20610	236	15 3.5
28.5	21 17 46.70	24 16.16	10 27 53.1	+1 48 48.9	8.20846	+261	15 8.4
29.0	21 42 2.86	24 19.41	- 8 39 4.2	1 55 54.4	8.21107	284	15 13.9
29.5	22 6 22.27	24 27.04	6 43 9.8	2 2 0.2	8.21391	304	15 19.9
30.0	22 30 49.31	24 39.62	4 41 9.6	2 7 0.0	8.21695	322	15 26.3
30.5	22 55 28.93	24 57.45	2 34 9.6	2 10 46.9	8.22017	337	15 33.2
31.0	23 20 26.38	25 20.95	- 0 23 22.7	2 13 10.8	8.22354	345	15 40.5
31.5	23 45 47.33	25 50.15	+ 1 49 48.1	2 14 1.5	8.22699	349	15 48.0
Juni 1.0	0 11 37.48	26 24.98	4 3 49.6	2 13 6.5	8.23048	345	15 55.6
1.5	0 38 2.46	27 4.96	6 16 56.1	2 10 11.9	8.23393	337	16 3.3
2.0	1 5 7.42	27 49.33	8 27 8.0	2 5 4.9	8.23730	319	16 10.8
2.5	1 32 56.75		10 32 12.9		8.24049		16 17.9

Mai 14 ^h 2 ^m 33.3 Erstes Viertel. Mai 21 ^h 23 ^m 39.7 Vollmond. Mai 30 ^h 0 ^m 54.0 Letztes Viertel.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl.-Sterne			
							AR.	Decl.	Gr.	
Mai 14	O	6 ^h 15.9 ^m	9 ^h 42 ^m 1 ^s	-65.89	133.15	+ 8° 34.6'	-10.3	9 ^h 2.5 ^m	+11° 4'	5.0
	U	18 40.2	10 8 19	-65.06	129.92	+ 6 29.0	-10.6	9 23.2	+ 9 29	5.6
15	O	7 3.9	10 34 0	-64.34	127.21	+ 4 20.3	-10.8	9 55.1	+ 8 31	5.0
	U	19 27.0	10 59 12	-63.75	125.03	+ 2 10.1	-10.9	10 17.9	+ 7 2	6.5
16	O	7 49.8	11 24 2	-63.30	123.38	- 0 0.1	-10.8	10 55.5	+ 4 9	5.0
	U	20 12.4	11 48 35	-62.97	122.23	- 2 8.8	-10.6	11 1.9	+ 2 29	5.7
17	O	8 34.7	12 12 57	-62.76	121.57	- 4 14.8	-10.4	11 44.1	+ 0 14	6.5
	U	20 56.9	12 37 14	-62.67	121.34	- 6 16.9	-10.0	12 1.0	- 2 35	6.4
18	O	9 19.2	13 1 31	-62.69	121.49	- 8 13.8	- 9.5	12 34.5	- 5 34	6.5
	U	21 41.5	13 25 51	-62.78	121.97	-10 4.6	- 8.9	12 42.5	- 5 46	6.1
19	O	10 3.9	13 50 19	-62.96	122.72	-11 48.0	- 8.3	13 20.1	-10 39	1.2
	U	22 26.5	14 14 57	-63.18	123.66	-13 23.0	- 7.5	13 27.9	- 9 40	5.5
20	O	10 49.3	14 39 48	-63.44	124.72	-14 48.7	- 6.7	14 3.3	-11 22	6.5
	U	23 12.4	15 4 51	-63.71	125.82	-16 4.0	- 5.8	14 13.9	-12 55	4.6
21	O	11 35.6	15 30 8	-63.98	126.89	-17 8.2	- 4.9	15 1.2	-15 53	5.4
	U	23 59.0	15 55 37	+64.23	127.90	-18 0.3	- 3.8	15 6.4	-15 47	6.5
22	O	12 22.6	16 21 17	+64.45	128.69	-18 39.9	- 2.7	15 54.9	-16 15	5.6
	—	—	—	—	—	—	—	15 59.8	-19 32	3.0
23	U	0 46.4	16 47 4	+64.60	129.26	-19 6.3	- 1.6	16 36.2	-19 44	5.7
	O	13 10.3	17 12 58	+64.70	129.58	-19 19.2	- 0.5	16 56.2	-18 45	6.5
24	U	1 34.2	17 38 53	+64.74	129.62	-19 18.5	+ 0.6	17 50.2	-18 47	6.5
	O	13 58.0	18 4 47	+64.70	129.41	-19 4.1	+ 1.7	17 54.2	-20 20	6.5
25	U	2 21.9	18 30 38	+64.63	128.97	-18 36.1	+ 2.9	18 25.7	-18 28	5.2
	O	14 45.6	18 56 22	+64.50	128.36	-17 54.9	+ 4.0	18 37.2	-19 23	6.5
26	U	3 9.2	19 21 58	+64.35	127.64	-17 1.0	+ 5.0	19 16.2	-18 29	6.1
	O	15 32.6	19 47 26	+64.18	126.90	-15 54.8	+ 6.0	19 35.2	-16 31	5.5
27	U	3 55.8	20 12 45	+64.04	126.21	-14 37.2	+ 6.9	20 15.5	-15 5	3.4
	O	16 19.0	20 37 56	+63.91	125.63	-13 8.7	+ 7.8	20 25.6	-15 23	6.2
28	U	4 42.0	21 3 1	+63.84	125.27	-11 30.2	+ 8.6	21 4.3	-11 46	4.6
	O	17 5.0	21 28 4	+63.84	125.20	- 9 42.7	+ 9.3	21 9.0	-11 1	6.5
29	U	5 28.0	21 53 7	+63.93	125.49	- 7 47.1	+ 9.9	21 41.1	- 9 44	6.2
	O	17 51.2	22 18 17	+64.11	126.19	- 5 44.4	+10.5	21 58.2	- 7 0	5.6
30	U	6 14.5	22 43 37	+64.42	127.35	- 3 35.7	+10.9	22 32.7	- 4 44	5.5
	O	18 38.1	23 9 14	+64.84	129.02	- 1 22.2	+11.3	22 53.2	- 2 55	6.3
31	U	7 2.1	23 35 15	+65.40	131.23	+ 0 54.5	+11.5	23 37.1	+ 1 14	4.7
	O	19 26.5	0 1 45	+66.09	134.00	+ 3 12.9	+11.6	23 41.4	+ 2 57	5.2
Juni 1	U	7 51.6	0 28 51	+66.90	137.30	+ 5 31.2	+11.5	0 27.4	+ 6 25	5.7
	O	20 17.4	0 56 41	+67.84	141.11	+ 7 47.3	+11.2	0 43.2	+ 6 46	6.0
2	U	8 43.9	1 25 18	+68.85	145.33	+ 9 58.8	+10.7			
	O	21 11.4	1 54 47	+69.92	149.82	+12 3.0	+10.0			

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Juni 2.0	1 ^h 5 ^m 7.42	^m 27 49.33	+ 8° 27' 8.0	+ 2° 5' 4.9	8.23730	+319	16' 10.8
2.5	1 32 56.75	28 36.76	10 32 12.9	1 57 33.4	8.24049	292	16 17.9
3.0	2 1 33.51	29 25.52	12 29 46.3	1 47 28.3	8.24341	259	16 24.5
3.5	2 30 59.03	30 13.25	14 17 14.6	1 34 46.4	8.24600	217	16 30.4
4.0	3 1 12.28	30 57.15	15 52 1.0	1 19 33.2	8.24817	169	16 35.4
4.5	3 32 9.43	31 34.23	17 11 34.2	1 2 2.9	8.24986	118	16 39.3
5.0	4 3 43.66	32 1.58	18 13 37.1	0 42 39.7	8.25104	+ 58	16 42.0
5.5	4 35 45.24	32 16.81	18 56 16.8	0 21 59.6	8.25162	0	16 43.3
6.0	5 8 2.05	32 18.42	19 18 16.4	+ 0 0 44.4	8.25162	- 60	16 43.3
6.5	5 40 20.47	32 6.17	19 19 0.8	- 0 20 21.4	8.25102	-117	16 41.9
7.0	6 12 26.64	31 40.97	+18 58 39.4	0 40 33.6	8.24985	171	16 39.2
7.5	6 44 7.61	31 4.91	18 18 5.8	0 59 15.0	8.24814	218	16 35.3
8.0	7 15 12.52	30 20.73	17 18 50.8	1 15 56.7	8.24596	260	16 30.3
8.5	7 45 33.25	29 31.38	16 2 54.1	1 30 21.3	8.24336	293	16 24.4
9.0	8 15 4.63	28 39.90	14 32 32.8	1 42 20.3	8.24043	320	16 17.8
9.5	8 43 44.53	27 48.82	12 50 12.5	1 51 54.0	8.23723	338	16 10.6
10.0	9 11 33.35	27 0.16	10 58 18.5	1 59 8.7	8.23385	347	16 3.1
10.5	9 38 33.51	26 15.47	8 59 9.8	2 4 14.7	8.23038	352	15 55.4
11.0	10 4 48.98	25 35.84	6 54 55.1	2 7 24.4	8.22686	347	15 47.7
11.5	10 30 24.82	25 1.77	4 47 30.7	- 2 8 48.9	8.22339	-337	15 40.2
12.0	10 55 26.59	24 33.65	+ 2 38 41.8	2 8 40.8	8.22002	324	15 32.9
12.5	11 20 0.24	24 11.44	+ 0 30 1.0	2 7 10.4	8.21678	306	15 26.0
13.0	11 44 11.68	23 55.02	- 1 37 9.4	2 4 25.5	8.21372	284	15 19.5
13.5	12 8 6.70	23 44.10	3 41 34.9	2 0 33.6	8.21088	262	15 13.5
14.0	12 31 50.80	23 38.29	5 42 8.5	1 55 39.6	8.20826	236	15 8.0
14.5	12 55 29.09	23 37.09	7 37 48.1	1 49 47.6	8.20590	210	15 3.1
15.0	13 19 6.18	23 39.92	9 27 35.7	1 43 0.6	8.20380	185	14 58.7
15.5	13 42 46.10	23 46.15	11 10 36.3	1 35 21.3	8.20195	159	14 54.9
16.0	14 6 32.25	23 55.07	12 45 57.6	1 26 51.2	8.20036	133	14 51.6
16.5	14 30 27.32	24 5.89	14 12 48.8	- 1 17 32.5	8.19903	-108	14 48.9
17.0	14 54 33.21	24 17.81	- 15 30 21.3	1 7 27.9	8.19795	84	14 46.7
17.5	15 18 51.02	24 30.01	16 37 49.2	0 56 40.6	8.19711	62	14 45.0
18.0	15 43 21.03	24 41.60	17 34 29.8	0 45 15.3	8.19649	40	14 43.7
18.5	16 8 2.63	24 51.88	18 19 45.1	0 33 17.0	8.19609	- 20	14 42.9
19.0	16 32 54.51	25 0.11	18 53 2.1	0 20 52.8	8.19589	+ 1	14 42.5
19.5	16 57 54.62	25 5.84	19 13 54.9	- 0 8 10.9	8.19590	18	14 42.5
20.0	17 23 0.46	25 8.66	19 22 5.8	+ 0 4 41.0	8.19608	37	14 42.9
20.5	17 48 9.12	25 8.49	19 17 24.8	0 17 33.3	8.19645	55	14 43.6
21.0	18 13 17.61	25 5.44	18 59 51.5	0 30 16.0	8.19700	72	14 44.7
21.5	18 38 23.05		18 29 35.5		8.19772		14 46.2

Juni 5 ^h 19 ^m 4.5 Neumond.Juni 12 ^h 12 ^m 47.4 Erstes Viertel.Juni 20 ^h 15 ^m 10.3 Vollmond.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg. -D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Decl.	Gr.
Juni 2 U	8 ^h 43.9 ^m	1 ^h 25 ^m 18 ^s	+68.85	145.33	+ 9° 58.8'	+10.7			
0	21 11.4	1 54 47	+69.92	149.82	+12 3.0	+10.0			
3 U	9 39.7	2 25 11	+70.99	154.41	+13 57.2	+ 9.0			
0	22 9.0	2 56 30	+72.02	158.81	+15 38.3	+ 7.8			
4 U	10 39.1	3 28 39	+72.92	162.75	+17 3.5	+ 6.4			
0	23 9.9	4 1 31	+73.66	165.91	+18 9.9	+ 4.7			
5 U	11 41.2	4 34 55	+74.14	167.99	+18 55.4	+ 2.9			
—	—	—	—	—	—	—			
6 0	0 12.9	5 8 37	-74.32	168.78	+19 18.5	+ 1.0			
U	12 44.6	5 42 20	-74.20	168.24	+19 18.4	- 1.0			
7 0	1 16.0	6 15 49	-73.77	166.36	+18 55.3	- 2.9			
U	13 46.9	6 48 47	-73.08	163.30	+18 10.4	- 4.6			
8 0	2 17.1	7 21 3	-72.16	159.36	+17 5.6	- 6.2			
U	14 46.4	7 52 27	-71.12	154.82	+15 43.2	- 7.5			
9 0	3 14.8	8 22 55	-69.98	150.01	+14 5.9	- 8.6			
U	15 42.3	8 52 25	-68.84	145.20	+12 16.6	- 9.5			
10 0	4 8.9	9 20 59	-67.73	140.60	+10 17.9	-10.2	^{h m} 8 53.1	[°] +12 14	4.3
U	16 34.5	9 48 39	-66.69	136.39	+ 8 12.3	-10.7	9 2.5	+11 4	5.0
11 0	4 59.3	10 15 32	-65.76	132.65	+ 6 2.2	-11.0	9 51.3	+ 9 24	6.0
U	17 23.5	10 41 43	-64.95	129.47	+ 3 49.7	-11.1	9 55.1	+ 8 31	5.0
12 0	5 47.0	11 7 20	-64.28	126.85	+ 1 36.6	-11.1	10 40.1	+ 3 0	6.5
U	18 10.1	11 32 29	-63.74	124.80	- 0 35.6	-10.9	10 55.5	+ 4 9	5.0
13 0	6 32.9	11 57 16	-63.34	123.30	- 2 45.5	-10.7	11 32.0	- 0 17	4.5
U	18 55.4	12 21 49	-63.07	122.31	- 4 51.7	-10.3	11 44.1	+ 0 14	6.5
14 0	7 17.8	12 46 14	-62.93	121.82	- 6 53.1	- 9.9	12 18.3	- 4 26	6.5
U	19 40.1	13 10 35	-62.89	121.75	- 8 48.7	- 9.4	12 26.6	- 4 31	6.3
15 0	8 2.5	13 34 57	-62.94	122.05	-10 37.4	- 8.8	13 4.7	- 9 48	6.5
U	20 24.9	13 59 25	-63.08	122.66	-12 18.3	- 8.1	13 20.1	-10 39	1.2
16 0	8 47.5	14 24 3	-63.28	123.54	-13 50.5	- 7.3	14 3.3	-11 22	6.5
U	21 10.3	14 48 51	-63.52	124.57	-15 12.9	- 6.5	14 13.9	-12 55	4.6
17 0	9 33.3	15 13 53	-63.78	125.68	-16 24.9	- 5.5	14 45.5	-15 38	3.0
U	21 56.5	15 39 8	-64.04	126.79	-17 25.6	- 4.5	15 1.2	-15 53	5.4
18 0	10 19.9	16 4 36	-64.28	127.83	-18 14.1	- 3.5	15 33.3	-18 59	5.7
U	22 43.5	16 30 16	-64.50	128.71	-18 50.0	- 2.4	15 44.3	-17 36	6.5
19 0	11 7.3	16 56 4	-64.65	129.39	-19 12.8	- 1.3	16 21.4	-18 14	5.0
U	23 31.2	17 22 0	-64.75	129.81	-19 22.0	- 0.2	16 34.9	-20 13	6.5
20 0	11 55.1	17 47 59	-64.77	129.94	-19 17.5	+ 0.9	17 14.2	-17 39	6.0
—	—	—	—	—	—	—	17 18.9	-18 21	6.3
21 U	0 19.1	18 13 58	+64.74	129.78	-18 59.2	+ 2.1	18 15.7	-18 54	var.
0	12 43.0	18 39 53	+64.64	129.36	-18 27.4	+ 3.2	18 19.6	-20 36	4.9

Juni 5 18^h Perigäum.

Juni 19 6^h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.	
Juni	21.0	18 ^h 13 ^m 17.61	^m ^s 25 5.44	-18° 59' 51.5	+0° 30' 16.0	8.19700	+ 72	14 44.7
	21.5	18 38 23.05	24 59.86	18 29 35.5	0 42 40.8	8.19772	87	14 46.2
	22.0	19 3 22.91	24 52.21	17 46 54.7	0 54 39.0	8.19859	105	14 48.0
	22.5	19 28 15.12	24 43.27	16 52 15.7	1 6 2.5	8.19964	123	14 50.1
	23.0	19 52 58.39	24 33.75	15 46 13.2	1 16 45.4	8.20087	139	14 52.6
	23.5	20 17 32.14	24 24.50	14 29 27.8	1 26 41.8	8.20226	157	14 55.5
	24.0	20 41 56.64	24 16.41	13 2 46.0	1 35 47.1	8.20383	175	14 58.8
	24.5	21 6 13.05	24 10.29	11 26 58.9	1 43 57.6	8.20558	193	15 2.4
	25.0	21 30 23.34	24 6.94	9 43 1.3	1 51 9.6	8.20751	211	15 6.4
	25.5	21 54 30.28	24 7.10	7 51 51.7	+1 57 20.2	8.20962	+230	15 10.8
	26.0	22 18 37.38	24 11.42	- 5 54 31.5	2 2 25.9	8.21192	246	15 15.7
	26.5	22 42 48.80	24 20.43	3 52 5.6	2 6 22.1	8.21438	263	15 20.9
	27.0	23 7 9.23	24 34.60	- 1 45 43.5	2 9 4.2	8.21701	278	15 26.5
	27.5	23 31 43.83	24 54.25	+ 0 23 20.7	2 10 25.8	8.21979	289	15 32.4
	28.0	23 56 38.08	25 19.58	2 33 46.5	2 10 19.3	8.22268	299	15 38.6
	28.5	0 21 57.66	25 50.58	4 44 5.8	2 8 36.0	8.22567	305	15 45.1
	29.0	0 47 48.24	26 26.98	6 52 41.8	2 5 5.8	8.22872	307	15 51.8
	29.5	1 14 15.22	27 8.16	8 57 47.6	1 59 38.7	8.23179	302	15 58.5
	30.0	1 41 23.38	27 53.16	10 57 26.3	1 52 4.4	8.23481	292	16 5.2
	30.5	2 9 16.54	28 40.56	12 49 30.7	+1 42 15.2	8.23773	+275	16 11.7
Juli	1.0	2 37 57.10	29 28.35	+14 31 45.9	1 30 5.8	8.24048	253	16 17.9
	1.5	3 7 25.45	30 14.15	16 1 51.7	1 15 37.8	8.24301	222	16 23.6
	2.0	3 37 39.60	30 55.14	17 17 29.5	0 59 0.3	8.24523	184	16 28.7
	2.5	4 8 34.74	31 28.48	18 16 29.8	0 40 30.5	8.24707	142	16 32.9
	3.0	4 40 3.22	31 51.64	18 57 0.3	+0 20 35.9	8.24849	93	16 36.1
	3.5	5 11 54.86	32 2.59	19 17 36.2	-0 0 8.1	8.24942	+ 40	16 38.3
	4.0	5 43 57.45	32 0.41	19 17 28.1	0 21 0.7	8.24982	- 14	16 39.2
	4.5	6 15 57.86	31 45.29	18 56 27.4	0 41 18.3	8.24968	70	16 38.8
	5.0	6 47 43.15	31 18.54	18 15 9.1	1 0 22.0	8.24898	123	16 37.2
	5.5	7 19 1.69	30 42.35	17 14 47.1	-1 17 37.6	8.24775	-174	16 34.4
	6.0	7 49 44.04	29 59.38	+15 57 9.5	1 32 40.8	8.24601	221	16 30.4
	6.5	8 19 43.42	29 12.52	14 24 28.7	1 45 17.1	8.24380	262	16 25.4
	7.0	8 48 55.94	28 24.35	12 39 11.6	1 55 20.6	8.24118	295	16 19.5
	7.5	9 17 20.29	27 37.18	10 43 51.0	2 2 54.2	8.23823	321	16 12.9
	8.0	9 44 57.47	26 52.72	8 40 56.8	2 8 5.7	8.23502	340	16 5.7
	8.5	10 11 50.19	26 12.29	6 32 51.1	2 11 6.5	8.23162	350	15 58.2
	9.0	10 38 2.48	25 36.77	4 21 44.6	2 12 10.1	8.22812	353	15 50.5
	9.5	11 3 39.25	25 6.58	+ 2 9 34.5	2 11 29.8	8.22459	348	15 42.8
	10.0	11 28 45.83	24 41.93	- 0 1 55.3	2 9 18.0	8.22111	339	15 35.3
	10.5	11 53 27.76		2 11 13.3		8.21772		15 28.0

Juni 28 10^h 45.4 Letztes Viertel.Juli 5 1^h 52.8 Neumond.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Decl.	Gr.
Juni 21	U 0 ^h 19.1 ^m	18 ^h 13 ^m 58 ^s	+64.74	129.78	-18° 59.2'	+ 2.1	18 ^h 15.7 ^m	-18° 54'	var.
	0 12 43.0	18 39 53	+64.64	129.36	-18 27.4	+ 3.2	18 19.6	-20 36	4.9
22	U 1 6.8	19 5 42	+64.48	128.72	-17 42.3	+ 4.3	19 1.5	-18 53	6.5
	0 13 30.4	19 31 22	+64.30	127.93	-16 44.6	+ 5.3	19 16.0	-18 2	3.9
23	U 1 53.8	19 56 52	+64.09	127.06	-15 34.8	+ 6.3	19 52.4	-15 45	5.0
	0 14 17.1	20 22 12	+63.90	126.19	-14 13.7	+ 7.2	20 15.3	-15 6	6.7
24	U 2 40.3	20 47 21	+63.72	125.41	-12 42.2	+ 8.0	20 47.8	-11 57	6.5
	0 15 3.3	21 12 23	+63.59	124.79	-11 1.3	+ 8.8	21 4.3	-11 46	4.6
25	U 3 26.2	21 37 18	+63.52	124.42	- 9 11.9	+ 9.4	21 32.6	- 8 18	4.8
	0 15 49.0	22 2 10	+63.53	124.38	- 7 15.2	+10.0	21 39.8	- 9 32	5.2
26	U 4 11.8	22 27 4	+63.65	124.72	- 5 12.2	+10.5	22 19.1	- 5 20	5.8
	0 16 34.8	22 52 5	+63.87	125.49	- 3 4.3	+10.9	22 32.7	- 4 44	5.5
27	U 4 58.0	23 17 18	+64.22	126.76	- 0 52.6	+11.1	23 21.9	+ 0 43	5.0
	0 17 21.5	23 42 48	+64.70	128.54	+ 1 21.5	+11.2	23 31.4	+ 1 34	5.6
28	U 5 45.4	0 8 44	+65.30	130.87	+ 3 36.4	+11.2	0 20.4	+ 1 24	5.8
	0 18 9.8	0 35 10	+66.04	133.74	+ 5 50.5	+11.1	0 27.4	+ 6 25	5.7
29	U 6 34.8	1 2 14	+66.89	137.13	+ 8 1.9	+10.8	1 3.3	+ 9 23	6.5
	0 19 0.5	1 30 1	+67.85	141.00	+10 8.5	+10.3	1 8.6	+ 7 3	4.2
30	U 7 27.1	1 58 37	+68.88	145.23	+12 8.1	+ 9.6	1 45.7	+10 33	5.8
	0 19 54.5	2 28 5	+69.94	149.68	+13 58.2	+ 8.7	1 54.2	+11 49	6.2
Juli 1	U 8 22.8	2 58 27	+71.00	154.16	+15 36.1	+ 7.6	2 46.1	+14 41	5.5
	0 20 52.0	3 29 42	+71.97	158.40	+16 59.3	+ 6.3	2 59.2	+15 29	6.5
2	U 9 22.0	4 1 45	+72.83	162.10	+18 5.1	+ 4.7			
	0 21 52.6	4 34 27	+73.47	164.98	+18 51.2	+ 3.0			
3	U 10 23.8	5 7 38	+73.87	166.77	+19 16.0	+ 1.1			
	0 22 55.2	5 41 4	+73.98	167.30	+19 18.3	- 0.8			
4	U 11 26.5	6 14 29	+73.79	166.54	+18 57.9	- 2.6			
	0 23 57.5	6 47 37	+73.33	164.52	+18 15.3	- 4.4			
5	U 12 28.1	7 20 15	-72.62	161.60	+17 12.0	- 6.1			
	0								
6	U 0 58.0	7 52 11	-71.73	157.80	+15 50.2	- 7.5			
	0 13 27.1	8 23 18	-70.73	153.51	+14 12.3	- 8.7			
7	U 1 55.3	8 53 32	-69.66	149.00	+12 21.3	- 9.7			
	0 14 22.6	9 22 52	-68.59	144.54	+10 20.0	-10.5			
8	U 2 49.0	9 51 20	-67.57	140.30	+ 8 11.2	-11.0			
	0 15 14.6	10 18 59	-66.63	136.44	+ 5 57.6	-11.3			
9	U 3 39.5	10 45 55	-65.79	133.04	+ 3 41.5	-11.4			
	0 16 3.8	11 12 13	-65.07	130.15	+ 1 24.9	-11.4			
10	U 4 27.5	11 37 59	-64.49	127.79	- 0 50.3	-11.2	11 8.8	+ 0 28	5.5
	0 16 50.8	12 3 21	-64.03	125.97	- 3 2.5	-10.9	11 13.9	+ 2 11	6.5

Juli 4 3^h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Dif.	Decl. app.	Dif.	Log. sin. A. H. Par.	Dif.	Halbm.
Juli 10.0	11 ^h 28 ^m 45.83	^m 41.93	— 0° 1' 55.3	— 2° 9' 18.0	8.22111	—339	15 35.3
10.5	11 53 27.76	24 22.81	2 11 13.3	2 5 46.4	8.21772	323	15 28.0
11.0	12 17 50.57	24 9.03	4 16 59.7	2 1 40.0	8.21449	303	15 21.1
11.5	12 41 59.60	24 0.23	6 18 3.7	1 55 19.0	8.21146	281	15 14.7
12.0	13 5 59.83	23 56.05	8 13 22.7	1 48 37.5	8.20865	253	15 8.8
12.5	13 29 55.88	23 55.91	10 2 0.2	1 41 4.1	8.20612	224	15 3.5
13.0	13 53 51.79	23 59.29	11 43 4.3	1 32 42.8	8.20388	195	14 58.9
13.5	14 17 51.08	24 5.51	13 15 47.1	1 23 36.7	8.20193	164	14 54.9
14.0	14 41 56.59	24 13.87	14 39 23.8	1 13 48.3	8.20029	134	14 51.5
14.5	15 6 10.46	24 23.62	15 53 12.1	— 1 3 19.8	8.19895	—103	14 48.7
15.0	15 30 34.08	24 34.02	— 16 56 31.9	0 52 15.3	8.19792	73	14 46.6
15.5	15 55 8.10	24 44.23	17 48 47.2	0 40 38.3	8.19719	45	14 45.1
16.0	16 19 52.33	24 53.59	18 29 25.5	0 28 32.8	8.19674	— 18	14 44.2
16.5	16 44 45.92	25 1.38	18 57 58.3	0 16 5.2	8.19656	+ 8	14 43.9
17.0	17 9 47.30	25 7.13	19 14 3.5	— 0 3 21.6	8.19664	31	14 44.0
17.5	17 34 54.43	25 10.44	19 17 25.1	+ 0 9 29.5	8.19695	52	14 44.6
18.0	18 0 4.87	25 11.13	19 7 55.6	0 22 20.0	8.19747	73	14 45.7
18.5	18 25 16.00	25 9.23	18 45 35.6	0 35 1.5	8.19820	90	14 47.2
19.0	18 50 25.23	25 4.94	18 10 34.1	0 47 24.2	8.19910	107	14 49.0
19.5	19 15 30.17	24 58.75	17 23 9.9	+ 0 59 19.2	8.20017	+121	14 51.2
20.0	19 40 28.92	24 51.11	— 16 23 50.7	1 10 38.8	8.20138	134	14 53.7
20.5	20 5 20.03	24 42.78	15 13 11.9	1 21 14.4	8.20272	147	14 56.5
21.0	20 30 2.81	24 34.51	13 51 57.5	1 30 59.8	8.20419	157	14 59.5
21.5	20 54 37.32	24 27.01	12 20 57.7	1 39 48.7	8.20576	166	15 2.8
22.0	21 19 4.33	24 21.09	10 41 9.0	1 47 36.3	8.20742	176	15 6.2
22.5	21 43 25.42	24 17.49	8 53 32.7	1 54 17.7	8.20918	185	15 9.9
23.0	22 7 42.91	24 16.88	6 59 15.0	1 59 49.0	8.21103	193	15 13.8
23.5	22 31 59.79	24 19.84	4 59 26.0	2 4 6.6	8.21296	201	15 17.9
24.0	22 56 19.63	24 26.91	2 55 19.4	2 7 6.6	8.21497	208	15 22.1
24.5	23 20 46.54	24 38.48	— 0 48 12.8	+ 2 8 45.3	8.21705	+216	15 26.6
25.0	23 45 25.02	24 54.89	+ 1 20 32.5	2 8 57.9	8.21921	222	15 31.2
25.5	0 10 19.91	25 16.23	3 29 30.4	2 7 39.6	8.22143	228	15 36.0
26.0	0 35 36.14	25 42.50	5 37 10.0	2 4 44.6	8.22371	237	15 40.9
26.5	1 1 18.64	26 13.44	7 41 54.6	2 0 7.5	8.22602	233	15 45.9
27.0	1 27 32.08	26 48.58	9 42 2.1	1 53 41.8	8.22835	233	15 51.0
27.5	1 54 20.66	27 27.02	11 35 43.9	1 45 22.0	8.23068	230	15 56.1
28.0	2 21 47.68	28 7.60	13 21 5.9	1 35 4.6	8.23298	222	16 1.2
28.5	2 49 55.28	28 48.73	14 56 10.5	1 22 47.9	8.23520	212	16 6.1
29.0	3 18 44.01	29 28.46	16 18 58.4	1 8 35.0	8.23732	197	16 10.8
29.5	3 48 12.47		17 27 33.4		8.23929		16 15.2

Juli 12 1^h 40.2^m Erstes Viertel. Juli 20 5^h 38.8^m Vollmond. Juli 27 18^h 8.2^m Letztes Viertel.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Decl.	Gr.
Juli 10 O	4 ^h 27.5 ^m	11 ^h 37 ^m 59 ^s	-64.49	127.79	- 0 50.3	-11.2	11 8.8	+ 0 28	5.5
U	16 50.8	12 3 21	-64.03	125.97	- 3 2.5	-10.9	11 13.9	+ 2 11	6.5
11 O	5 13.8	12 28 24	-63.70	124.66	- 5 10.4	-10.4	12 1.0	- 2 35	6.4
U	17 36.6	12 53 14	-63.49	123.82	- 7 12.7	- 9.9	12 13.2	- 3 24	6.8
12 O	5 59.3	13 17 57	-63.38	123.42	- 9 8.5	- 9.3	12 49.3	- 9 0	5.0
U	18 22.0	13 42 38	-63.38	123.42	-10 56.6	- 8.7	13 3.5	- 8 28	5.9
13 O	6 44.7	14 7 20	-63.45	123.74	-12 36.2	- 7.9	13 27.8	- 9 40	5.5
U	19 7.4	14 32 8	-63.60	124.32	-14 6.6	- 7.1	13 40.8	-11 56	6.0
14 O	7 30.3	14 57 5	-63.79	125.11	-15 26.8	- 6.2	14 13.9	-12 55	4.6
U	19 53.4	15 22 12	-63.99	126.01	-16 36.1	- 5.3	14 40.6	-15 3	6.2
15 O	8 16.7	15 47 30	-64.21	126.97	-17 33.8	- 4.3	15 17.6	-14 47	6.3
U	20 40.1	16 12 59	-64.43	127.91	-18 19.3	- 3.3	15 22.8	-16 22	6.2
16 O	9 3.8	16 38 40	-64.61	128.75	-18 52.1	- 2.2	16 13.4	-19 59	6.0
U	21 27.6	17 4 29	-64.75	129.42	-19 11.7	- 1.1	16 18.4	-19 49	4.6
17 O	9 51.5	17 30 25	-64.84	129.90	-19 17.7	+ 0.1	16 59.0	-20 21	6.5
U	22 15.4	17 56 25	-64.87	130.12	-19 10.1	+ 1.2	17 14.2	-17 39	6.0
18 O	10 39.4	18 22 27	-64.83	130.10	-18 48.8	+ 2.3	17 54.2	-20 20	6.5
U	23 3.4	18 48 27	-64.75	129.83	-18 13.8	+ 3.5	18 9.4	-20 25	6.2
19 O	11 27.3	19 14 22	-64.61	129.36	-17 25.6	+ 4.6	18 37.2	-19 23	6.5
U	23 51.0	19 40 10	-64.43	128.72	-16 24.6	+ 5.6	18 57.4	-19 23	5.9
20 O	12 14.6	20 5 50	+64.24	127.94	-15 11.6	+ 6.6	19 38.0	-15 42	5.5
—	—	—	—	—	—	—	19 52.5	-15 45	5.0
21 U	0 38.1	20 31 21	+64.04	127.16	-13 47.4	+ 7.5	20 28.8	-14 4	6.2
O	13 1.5	20 56 43	+63.86	126.44	-12 12.8	+ 8.3	20 45.4	-12 54	6.3
22 U	1 24.7	21 21 56	+63.73	125.83	-10 28.9	+ 9.0	21 20.0	-10 10	5.7
O	13 47.7	21 47 4	+63.63	125.41	- 8 36.8	+ 9.7	21 32.6	- 8 18	4.8
23 U	2 10.8	22 12 7	+63.62	125.26	- 6 37.9	+10.2	22 12.0	- 5 53	5.9
O	14 33.8	22 37 11	+63.69	125.43	- 4 33.2	+10.6	22 19.1	- 5 20	5.8
24 U	2 56.9	23 2 19	+63.86	125.98	- 2 24.3	+10.9	22 53.3	- 2 55	6.3
O	15 20.1	23 27 36	+64.14	126.96	- 0 12.5	+11.1	23 22.0	+ 0 43	5.0
25 U	3 43.6	23 53 7	+64.54	128.38	+ 2 0.6	+11.1	23 44.5	+ 0 32	6.1
O	16 7.4	0 18 58	+65.06	130.28	+ 4 13.6	+11.0	23 48.1	+ 1 33	6.3
26 U	4 31.7	0 45 15	+65.68	132.66	+ 6 24.7	+10.8	0 43.6	+ 7 3	4.6
O	16 56.4	1 12 2	+66.42	135.48	+ 8 32.0	+10.4	0 57.9	+ 7 22	4.5
27 U	5 21.8	1 39 27	+67.25	138.73	+10 33.7	+ 9.8	1 31.9	+11 38	5.6
O	17 47.8	2 7 31	+68.14	142.30	+12 27.8	+ 9.1	1 45.7	+10 33	5.8
28 U	6 14.6	2 36 21	+69.08	146.09	+14 12.0	+ 8.2	2 39.2	+14 54	5.8
O	18 42.2	3 5 56	+70.01	149.94	+15 44.1	+ 7.1	2 46.1	+14 41	5.5
29 U	7 10.4	3 36 17	+70.90	153.65	+17 1.8	+ 5.8	3 33.9	+16 13	6.4
O	19 39.4	4 7 20	+71.67	157.00	+18 3.1	+ 4.4	3 47.6	+17 2	6.0

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Dif.	Decl. app.	Dif.	Log. sin. A. H. Par.	Dif.	Halbm.		
Juli	29.0	3 ^h 18 ^m 44.01	29 ^m 28.46	+16° 18' 58.4	+1° 8' 35.0	8.23732	+197	16' 10.8	
	29.5	3 48 12.47	30 4.62	17 27 33.4	0 52 33.9	8.23929	176	16 15.2	
	30.0	4 18 17.09	30 34.96	18 20 7.3	0 34 59.3	8.24105	150	16 19.2	
	30.5	4 48 52.05	30 57.34	18 55 6.6	+0 16 12.8	8.24255	120	16 22.6	
	31.0	5 19 49.39	31 10.17	19 11 19.4	-0 3 18.1	8.24375	85	16 25.3	
	31.5	5 50 59.56	31 12.42	19 8 1.3	0 23 0.4	8.24460	47	16 27.2	
	Aug.	1.0	6 22 11.98	31 4.04	18 45 0.9	0 42 19.3	8.24507	+ 5	16 28.3
		1.5	6 53 16.02	30 45.68	18 2 41.6	1 0 40.1	8.24512	- 40	16 28.4
		2.0	7 24 1.70	30 18.90	17 2 1.5	1 17 31.8	8.24472	85	16 27.5
		2.5	7 54 20.60	29 45.62	15 44 29.7	-1 32 29.3	8.24387	-129	16 25.6
3.0		8 24 6.22	29 8.05	+14 12 0.4	1 45 14.7	8.24258	171	16 22.7	
3.5		8 53 14.27	28 28.40	12 26 45.7	1 55 38.0	8.24087	210	16 18.8	
4.0		9 21 42.67	27 48.57	10 31 7.7	2 3 35.3	8.23877	245	16 14.1	
4.5		9 49 31.24	27 10.24	8 27 32.4	2 9 10.1	8.23632	273	16 8.6	
5.0		10 16 41.48	26 34.64	6 18 22.3	2 12 28.7	8.23359	296	16 2.5	
5.5		10 43 16.12	26 2.65	4 5 53.6	2 13 41.9	8.23063	312	15 56.0	
6.0	11 9 18.77	25 34.86	+ 1 52 11.7	2 13 1.3	8.22751	322	15 49.1		
6.5	11 34 53.63	25 11.59	- 0 20 49.6	2 10 39.0	8.22429	323	15 42.1		
7.0	12 0 5.22	24 52.91	2 31 28.6	2 6 47.3	8.22106	320	15 35.1		
7.5	12 24 58.13	24 38.69	4 38 15.9	-2 1 36.8	8.21786	-310	15 28.3		
8.0	12 49 36.82	24 28.74	- 6 39 52.7	1 55 17.2	8.21476	295	15 21.7		
8.5	13 14 5.56	24 22.77	8 35 9.9	1 47 57.4	8.21181	276	15 15.4		
9.0	13 38 28.33	24 20.32	10 23 7.3	1 39 44.5	8.20905	251	15 9.6		
9.5	14 2 48.65	24 20.89	12 2 51.8	1 30 43.7	8.20654	224	15 4.4		
10.0	14 27 9.54	24 23.99	13 33 35.5	1 21 1.1	8.20430	194	14 59.7		
10.5	14 51 33.53	24 29.00	14 54 36.6	1 10 40.5	8.20236	163	14 55.7		
11.0	15 16 2.53	24 35.32	16 5 17.1	0 59 45.5	8.20073	130	14 52.4		
11.5	15 40 37.85	24 42.35	17 5 2.6	0 48 20.6	8.19943	96	14 49.7		
12.0	16 5 20.20	24 49.41	17 53 23.2	0 36 29.8	8.19847	63	14 47.7		
12.5	16 30 9.61	24 56.00	18 29 53.0	-0 24 17.3	8.19784	- 30	14 46.5		
13.0	16 55 5.61	25 1.59	-18 54 10.3	-0 11 48.1	8.19754	+ 2	14 45.9		
13.5	17 20 7.20	25 5.78	19 5 58.4	+0 0 51.7	8.19756	32	14 45.9		
14.0	17 45 12.98	25 8.27	19 5 6.7	0 13 36.2	8.19788	61	14 46.5		
14.5	18 10 21.25	25 8.97	18 51 30.5	0 26 18.3	8.19849	87	14 47.8		
15.0	18 35 30.22	25 7.87	18 25 12.2	0 38 50.4	8.19936	110	14 49.6		
15.5	19 0 38.09	25 5.17	17 46 21.8	0 51 4.4	8.20046	132	14 51.8		
16.0	19 25 43.26	25 1.16	16 55 17.4	1 2 52.6	8.20178	149	14 54.5		
16.5	19 50 44.42	24 56.29	15 52 24.8	1 14 6.8	8.20327	165	14 57.6		
17.0	20 15 40.71	24 51.08	14 38 18.0	1 24 38.6	8.20492	176	15 1.0		
17.5	20 40 31.79		13 13 39.4		8.20668		15 4.7		

Aug. 3 9^h 10.8 Neumond.Aug. 10 17^h 17.8 Erstes Viertel.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg. - D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Decl.	Gr.
Juli 29 U	7 ^h 10.4 ^m	3 ^h 36 ^m 17 ^s	+70.90	153.65	+17° 1.8	+ 5.8	3 ^h 33.9 ^m	+16° 13'	6.4
	19 39.4	4 7 20	+71.67	157.00	+18 3.1	+ 4.4	3 47.6	+17 2	6.0
30 U	8 9.1	4 39 1	+72.30	159.74	+18 45.9	+ 2.8	4 40.6	+18 33	6.5
	20 39.2	5 11 10	+72.73	161.68	+19 8.7	+ 1.0	4 45.7	+18 40	5.1
31 U	9 9.6	5 43 36	+72.93	162.63	+19 10.8	- 0.7			
	21 40.0	6 16 8	+72.87	162.53	+18 51.0	- 2.5			
Aug. 1 U	10 10.4	6 48 33	+72.58	161.39	+18 10.4	- 4.3			
	22 40.5	7 20 39	+72.08	159.32	+17 9.6	- 5.9			
2 U	11 10.0	7 52 15	+71.40	156.50	+15 50.4	- 7.3			
	23 38.9	8 23 15	+70.59	153.14	+14 14.9	- 8.6			
3 U	12 7.2	8 53 32	-69.71	149.64	+12 25.7	- 9.6			
4 O	0 34.7	9 23 4	-68.80	145.90	+10 25.3	-10.4			
	13 1.4	9 51 52	-67.90	142.24	+ 8 16.7	-11.0			
5 O	1 27.5	10 19 58	-67.07	138.81	+ 6 2.4	-11.4			
	13 52.9	10 47 24	-66.31	135.71	+ 3 45.0	-11.5			
6 O	2 17.7	11 14 15	-65.65	133.00	+ 1 26.7	-11.5			
	14 42.0	11 40 36	-65.10	130.72	- 0 50.5	-11.3			
7 O	3 5.9	12 6 32	-64.65	128.88	- 3 4.6	-11.0			
	15 29.5	12 32 10	-64.32	127.47	- 5 14.2	-10.6			
8 O	3 52.8	12 57 33	-64.09	126.48	- 7 17.9	-10.0	12 26.6	- 4 31	6.3
	16 16.0	13 22 46	-63.95	125.86	- 9 14.4	- 9.4	12 31.8	- 5 18	5.9
9 O	4 39.1	13 47 55	-63.90	125.60	-11 2.8	- 8.7	13 20.1	-10 39	1.2
	17 2.2	14 13 2	-63.93	125.62	-12 42.1	- 7.9	13 27.8	- 9 40	5.5
10 O	5 25.3	14 38 11	-64.00	125.89	-14 11.4	- 7.0	14 3.3	-11 22	6.5
	17 48.5	15 3 24	-64.13	126.34	-15 30.1	- 6.1	14 13.8	-12 55	4.6
11 O	6 11.8	15 28 44	-64.28	126.92	-16 37.5	- 5.1	15 1.2	-15 53	5.4
	18 35.2	15 54 11	-64.44	127.57	-17 33.0	- 4.1	15 9.1	-17 24	6.5
12 O	6 58.7	16 19 46	-64.59	128.22	-18 16.1	- 3.1	15 54.9	-16 15	5.6
	19 22.4	16 45 28	-64.73	128.83	-18 46.3	- 2.0	15 59.8	-19 32	3.0
13 O	7 46.2	17 11 17	-64.83	129.34	-19 3.2	- 0.9	16 36.2	-19 44	5.7
	20 10.1	17 37 12	-64.90	129.70	-19 6.7	+ 0.3	16 56.2	-18 45	6.5
14 O	8 34.0	18 3 10	-64.91	129.90	-18 56.7	+ 1.4	17 18.9	-18 21	6.3
	20 58.0	18 29 9	-64.88	129.94	-18 33.1	+ 2.5	17 50.2	-18 47	6.5
15 O	9 21.9	18 55 7	-64.82	129.79	-17 56.0	+ 3.6	18 25.8	-18 28	5.2
	21 45.8	19 21 3	-64.71	129.51	-17 5.7	+ 4.7	18 37.2	-19 23	6.5
16 O	10 9.6	19 46 55	-64.57	129.10	-16 2.8	+ 5.8	19 16.2	-18 29	6.1
	22 33.3	20 12 41	-64.42	128.63	-14 47.8	+ 6.7	19 35.2	-16 31	5.5
17 O	10 57.0	20 38 22	-64.28	128.15	-13 21.5	+ 7.6	20 15.6	-15 5	3.4
	23 20.6	21 3 57	-64.15	127.72	-11 44.7	+ 8.5	20 25.6	-15 23	6.2

Aug. 1 7^h Perigäum.

Aug. 13 5^h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Aug. 17.0	20 ^h 15 ^m 40.71		-14° 38' 18.0		8.20492		15 1.0
17.5	20 40 31.79	24 51.08	13 13 39.4	+1 24 38.6	8.20668	+176	15 4.7
18.0	21 5 17.90	24 46.11	11 39 18.6	1 34 20.8	8.20854	186	15 8.6
18.5	21 29 59.93	24 42.03	9 56 12.8	1 43 5.8	8.21046	192	15 12.6
19.0	21 54 39.33	24 39.40	8 5 26.2	1 50 46.6	8.21242	196	15 16.7
19.5	22 19 18.18	24 38.85	6 8 9.3	1 57 16.9	8.21439	197	15 20.9
20.0	22 43 59.09	24 40.91	4 5 38.7	2 2 30.6	8.21637	198	15 25.1
20.5	23 8 45.13	24 46.04	- 1 59 16.7	2 6 22.0	8.21832	195	15 29.3
21.0	23 33 39.76	24 54.63	+ 0 9 29.3	2 8 46.0	8.22023	191	15 33.4
21.5	23 58 46.73	25 6.97	2 19 7.4	2 9 38.1	8.22209	186	15 37.4
		25 23.19		+2 8 53.1		+181	
22.0	0 24 9.92	25 43.34	+ 4 28 0.5	2 6 27.4	8.22390	174	15 41.3
22.5	0 49 53.26	26 7.20	6 34 27.9	2 2 17.2	8.22564	168	15 45.1
23.0	1 16 0.46	26 34.40	8 36 45.1	1 56 19.8	8.22732	161	15 48.7
23.5	1 42 34.86	27 4.40	10 33 4.9	1 48 33.4	8.22893	153	15 52.2
24.0	2 9 39.26	27 36.22	12 21 38.3	1 38 56.8	8.23046	145	15 55.6
24.5	2 37 15.48	28 8.79	14 0 35.1	1 27 33.0	8.23191	137	15 58.8
25.0	3 5 24.27	28 40.67	15 28 8.1	1 14 25.6	8.23328	127	16 1.8
25.5	3 34 4.94	29 10.33	16 42 33.7	0 59 42.7	8.23455	116	16 4.6
26.0	4 3 15.27	29 36.11	17 42 16.4	0 43 36.3	8.23571	103	16 7.2
26.5	4 32 51.38	29 56.43	18 25 52.7	+0 26 23.1	8.23674	+ 88	16 9.5
27.0	5 2 47.81	30 9.97	+18 52 15.8	+0 8 22.9	8.23762	71	16 11.5
27.5	5 32 57.78	30 15.84	19 0 38.7	-0 9 59.9	8.23833	52	16 13.1
28.0	6 3 13.62	30 13.61	18 50 38.8	0 28 18.7	8.23885	30	16 14.3
28.5	6 33 27.23	30 3.57	18 22 20.1	0 46 7.4	8.23915	+ 5	16 14.9
29.0	7 3 30.80	29 46.39	17 36 12.7	1 2 59.6	8.23920	- 22	16 15.0
29.5	7 33 17.19	29 23.35	16 33 13.1	1 18 31.5	8.23898	49	16 14.5
30.0	8 2 40.54	28 55.92	15 14 41.6	1 32 24.6	8.23849	80	16 13.4
30.5	8 31 36.46	28 25.72	13 42 17.0	1 44 23.3	8.23769	111	16 11.7
31.0	9 0 2.18	27 54.31	11 57 53.7	1 54 18.6	8.23658	141	16 9.2
31.5	9 27 56.49	27 23.10	10 3 35.1	-2 2 4.1	8.23517	-170	16 6.0
Sept. 1.0	9 55 19.59	26 53.23	+ 8 1 31.0	2 7 40.1	8.23347	196	16 2.2
1.5	10 22 12.82	26 25.65	5 53 50.9	2 11 8.6	8.23151	221	15 57.9
2.0	10 48 38.47	26 0.99	3 42 42.3	2 12 35.5	8.22930	241	15 53.1
2.5	11 14 39.46	25 39.68	+ 1 30 6.8	2 12 8.3	8.22689	257	15 47.8
3.0	11 40 19.14	25 21.86	- 0 42 1.5	2 9 56.2	8.22432	268	15 42.2
3.5	12 5 41.00	25 7.60	2 51 57.7	2 6 7.9	8.22164	275	15 36.4
4.0	12 30 48.60	24 56.81	4 58 5.6	2 0 54.0	8.21889	275	15 30.5
4.5	12 55 45.41	24 49.22	6 58 59.6	1 54 24.2	8.21614	272	15 24.6
5.0	13 20 34.63	24 44.52	8 53 23.8	1 46 46.5	8.21342	261	15 18.8
5.5	13 45 19.15		10 40 10.3		8.21081		15 13.3

Aug. 18 18^h 56.9 Vollmond. Aug. 25 23^h 58.1 Letztes Viertel. Sept. 1 18^h 13.0 Neumond.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg. -D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. -Sterne		
							AR.	Decl.	Gr.
Aug. 17 0	10 ^h 57.0 ^m	20 ^h 38 ^m 22 ^s	-64.28	128.15	-13° 21.5'	+ 7.6	20 ^h 15.6 ^m	-15° 5'	3.4
U	23 20.6	21 3 57	-64.15	127.72	-11 44.7	+ 8.5	20 25.6	-15 23	6.2
18 0	11 44.1	21 29 27	-64.06	127.40	- 9 58.6	+ 9.2	21 4.3	-11 46	4.6
—	—	—	—	—	—	—	21 9.0	-11 1	6.5
19 U	0 7.5	21 54 55	+64.02	127.23	- 8 4.3	+ 9.8	21 58.2	- 7 0	5.6
0	12 30.9	22 20 22	+64.04	127.30	- 6 3.0	+10.4	22 4.4	- 8 1	6.5
20 U	0 54.3	22 45 51	+64.14	127.65	- 3 56.2	+10.8	22 32.7	- 4 44	5.5
0	13 17.9	23 11 26	+64.32	128.32	- 1 45.4	+11.0	22 53.3	- 2 55	6.3
21 U	1 41.6	23 37 12	+64.61	129.33	+ 0 27.8	+11.2	23 37.1	+ 1 14	4.7
0	14 5.5	0 3 11	+64.99	130.71	+ 2 41.7	+11.1	23 41.4	+ 2 57	5.2
22 U	2 29.8	0 29 29	+65.46	132.46	+ 4 54.6	+11.0	0 27.4	+ 6 25	5.7
0	14 54.5	0 56 11	+66.03	134.59	+ 7 4.5	+10.7	0 43.3	+ 6 46	6.0
23 U	3 19.6	1 23 20	+66.68	137.05	+ 9 9.7	+10.2	1 16.2	+11 1	6.5
0	15 45.2	1 51 0	+67.40	139.79	+11 8.0	+ 9.5	1 32.0	+11 38	5.6
24 U	4 11.4	2 19 14	+68.15	142.74	+12 57.4	+ 8.7	2 27.6	+14 36	6.5
0	16 38.2	2 48 4	+68.92	145.78	+14 35.9	+ 7.7	2 39.2	+14 54	5.8
25 U	5 5.6	3 17 31	+69.68	148.78	+16 1.4	+ 6.5	3 21.5	+18 25	6.5
0	17 33.5	3 47 32	+70.36	151.57	+17 12.1	+ 5.2	3 25.8	+17 36	6.5
26 U	6 2.0	4 18 5	+70.95	153.99	+18 6.3	+ 3.8	4 17.3	+17 19	4.0
0	18 31.0	4 49 5	+71.39	155.88	+18 42.4	+ 2.2	4 22.9	+18 58	3.7
27 U	7 0.2	5 20 23	+71.68	157.09	+18 59.4	+ 0.6	5 21.5	+17 53	5.4
0	19 29.6	5 51 52	+71.77	157.55	+18 56.6	- 1.1	5 26.5	+18 31	4.6
28 U	7 59.1	6 23 21	+71.66	157.22	+18 33.8	- 2.7	6 26.6	+17 51	6.5
0	20 28.4	6 54 42	+71.38	156.12	+17 51.6	- 4.3	6 36.7	+17 44	5.1
29 U	8 57.4	7 25 46	+70.93	154.35	+16 50.7	- 5.8	—	—	—
0	21 26.0	7 56 26	+70.34	152.05	+15 32.7	- 7.2	—	—	—
30 U	9 54.1	8 26 35	+69.67	149.37	+13 59.4	- 8.4	—	—	—
0	22 21.7	8 56 11	+68.93	146.49	+12 12.8	- 9.4	—	—	—
31 U	10 48.7	9 25 12	+68.19	143.54	+10 15.3	-10.2	—	—	—
0	23 15.1	9 53 38	+67.47	140.67	+ 8 9.3	-10.8	—	—	—
Sept. 1 U	11 40.9	10 21 30	+66.79	137.99	+ 5 57.3	-11.2	—	—	—
—	—	—	—	—	—	—	—	—	—
2 0	0 6.3	10 48 52	-66.17	135.65	+ 3 41.5	-11.4	—	—	—
U	12 31.1	11 15 46	-65.63	133.53	+ 1 24.4	-11.4	—	—	—
3 0	0 55.5	11 42 17	-65.20	131.73	- 0 52.1	-11.3	—	—	—
U	13 19.7	12 8 29	-64.84	130.28	- 3 6.1	-11.0	—	—	—
4 0	1 43.6	12 34 25	-64.58	129.16	- 5 15.8	-10.6	—	—	—
U	14 7.3	13 0 9	-64.40	128.36	- 7 19.7	-10.1	—	—	—
5 0	2 30.9	13 25 46	-64.29	127.85	- 9 16.4	- 9.4	—	—	—
U	14 54.4	13 51 18	-64.26	127.58	-11 4.8	- 8.6	—	—	—

Aug. 28 20^h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Sept. 5.0	13 ^h 20 ^m 34.63	^m 24 44.52	— 8° 53' 23.8	— 1 46' 46.5	8.21342	—261	15' 18.8
5.5	13 45 19.15	24 42.35	10 40 10.3	1 38 10.6	8.21081	246	15 13.3
6.0	14 10 1.50	24 42.26	12 18 20.9	1 28 43.6	8.20835	228	15 8.2
6.5	14 34 43.76	24 43.77	13 47 4.5	1 18 33.0	8.20607	205	15 3.4
7.0	14 59 27.53	24 46.42	15 5 37.5	1 7 44.9	8.20402	179	14 59.2
7.5	15 24 13.95	24 49.74	16 13 22.4	0 56 25.5	8.20223	149	14 55.5
8.0	15 49 3.69	24 53.22	17 9 47.9	0 44 40.7	8.20074	119	14 52.4
8.5	16 13 56.91	24 56.51	17 54 28.6	0 32 35.6	8.19955	85	14 50.0
9.0	16 38 53.42	24 59.23	18 27 4.2	0 20 15.7	8.19870	51	14 48.2
9.5	17 3 52.65	25 1.09	18 47 19.9	— 0 7 46.2	8.19819	— 16	14 47.2
10.0	17 28 53.74	25 1.96	— 18 55 6.1	+ 0 4 47.4	8.19803	+ 19	14 46.9
10.5	17 53 55.70	25 1.75	18 50 18.7	0 17 19.9	8.19822	53	14 47.2
11.0	18 18 57.45	25 0.53	18 32 58.8	0 29 45.5	8.19875	85	14 48.3
11.5	18 43 57.98	24 58.42	18 3 13.3	0 41 58.5	8.19960	117	14 50.1
12.0	19 8 56.40	24 55.72	17 21 14.8	0 53 53.0	8.20077	145	14 52.5
12.5	19 33 52.12	24 52.77	16 27 21.8	1 5 22.2	8.20222	171	14 55.5
13.0	19 58 44.89	24 49.94	15 21 59.6	1 16 20.0	8.20393	194	14 59.0
13.5	20 23 34.83	24 47.70	14 5 39.6	1 26 39.8	8.20587	212	15 3.0
14.0	20 48 22.53	24 46.55	12 38 59.8	1 36 13.7	8.20799	227	15 7.4
14.5	21 13 9.08	24 46.95	11 2 46.1	+ 1 44 54.8	8.21026	+ 238	15 12.2
15.0	21 37 56.03	24 49.32	— 9 17 51.3	1 52 35.2	8.21264	244	15 17.2
15.5	22 2 45.35	24 54.16	7 25 16.1	1 59 6.9	8.21508	246	15 22.4
16.0	22 27 39.51	25 1.78	5 26 9.2	2 4 20.9	8.21754	243	15 27.6
16.5	22 52 41.29	25 12.51	3 21 48.3	2 8 9.8	8.21997	236	15 32.8
17.0	23 17 53.80	25 26.48	— 1 13 38.5	2 10 25.1	8.22233	226	15 37.9
17.5	23 43 20.28	25 43.83	+ 0 56 46.6	2 10 58.6	8.22459	211	15 42.8
18.0	0 9 4.11	26 4.45	3 7 45.2	2 9 44.0	8.22670	195	15 47.4
18.5	0 35 8.56	26 28.11	5 17 29.2	2 6 35.4	8.22865	176	15 51.6
19.0	1 1 36.67	26 54.35	7 24 4.6	2 1 28.6	8.23041	154	15 55.5
19.5	1 28 31.02	27 22.51	9 25 33.2	+ 1 54 21.5	8.23195	+ 133	15 58.9
20.0	1 55 53.53	27 51.61	+ 11 19 54.7	1 45 14.7	8.23328	110	16 1.8
20.5	2 23 45.14	28 20.62	13 5 9.4	1 34 12.3	8.23438	89	16 4.3
21.0	2 52 5.76	28 48.15	14 39 21.7	1 21 21.1	8.23527	68	16 6.3
21.5	3 20 53.91	29 12.82	16 0 42.8	1 6 52.6	8.23595	48	16 7.8
22.0	3 50 6.73	29 33.16	17 7 35.4	0 51 1.7	8.23643	29	16 8.8
22.5	4 19 39.89	29 47.96	17 58 37.1	0 34 6.9	8.23672	+ 11	16 9.5
23.0	4 49 27.85	29 56.16	18 32 44.0	+ 0 16 30.3	8.23683	— 5	16 9.7
23.5	5 19 24.01	29 57.22	18 49 14.3	— 0 1 25.2	8.23678	21	16 9.6
24.0	5 49 21.23	29 51.08	18 47 49.1	0 19 14.9	8.23657	35	16 9.2
24.5	6 19 12.31		18 28 34.2		8.23622		16 8.4

Sept. 9 11^h 8^m Erstes Viertel.Sept. 17 7^h 17^m Vollmond.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-P. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Decl.	Gr.
Sept. 5 O	2 ^h 30.9 ^m	13 ^h 25 ^m 46 ^s	-64.29	127.85	- 9° 16.4'	- 9.4			
U	14 54.4	13 51 18	-64.26	127.58	-11 4.8	- 8.6			
6 O	3 17.9	14 16 49	-64.28	127.53	-12 43.7	- 7.8			
U	15 41.4	14 42 20	-64.33	127.64	-14 12.3	- 6.9			
7 O	4 4.9	15 7 53	-64.43	127.87	-15 29.9	- 6.0	14 40.6 ^{h m}	-15 3'	6.2
U	16 28.5	15 33 29	-64.53	128.17	-16 35.8	- 5.0	14 45.5	-15 38'	3.0
8 O	4 52.1	15 59 9	-64.63	128.49	-17 29.4	- 4.0	15 33.3	-18 59'	5.7
U	17 15.8	16 24 53	-64.72	128.80	-18 10.3	- 2.9	15 44.3	-17 36'	6.5
9 O	5 39.5	16 50 40	-64.80	129.06	-18 38.2	- 1.8	16 21.4	-18 14'	5.0
U	18 3.3	17 16 30	-64.84	129.23	-18 52.8	- 0.7	16 34.8	-20 13'	6.5
10 O	6 27.1	17 42 21	-64.85	129.31	-18 54.1	+ 0.5	17 14.2	-17 39'	6.0
U	18 50.9	18 8 13	-64.83	129.29	-18 42.0	+ 1.6	17 18.9	-18 21'	6.3
11 O	7 14.7	18 34 4	-64.78	129.17	-18 16.5	+ 2.7	18 9.4	-20 25'	6.2
U	19 38.5	18 59 53	-64.71	128.97	-17 37.9	+ 3.8	18 15.7	-18 54'	var.
12 O	8 2.3	19 25 39	-64.61	128.71	-16 46.5	+ 4.8	18 57.4	-19 23'	5.9
U	20 26.0	19 51 21	-64.51	128.44	-15 42.6	+ 5.8	19 1.5	-18 53'	6.5
13 O	8 49.6	20 17 1	-64.41	128.19	-14 26.9	+ 6.8	19 38.0	-15 42'	5.5
U	21 13.1	20 42 38	-64.32	128.00	-13 0.0	+ 7.7	19 52.5	-15 45'	5.0
14 O	9 36.7	21 8 13	-64.27	127.92	-11 22.7	+ 8.5	20 28.8	-14 4'	6.2
U	22 0.2	21 33 49	-64.27	128.01	- 9 35.9	+ 9.3	20 45.4	-12 54'	6.3
15 O	10 23.8	21 59 26	-64.31	128.29	- 7 40.7	+ 9.9	21 32.6	- 8 18'	4.8
U	22 47.5	22 25 9	-64.44	128.83	- 5 38.4	+10.5	21 39.8	- 9 32'	5.2
16 O	11 11.3	22 50 59	-64.63	129.64	- 3 30.3	+10.9	22 19.1	- 5 20'	5.8
U	23 35.3	23 17 2	-64.91	130.75	- 1 18.1	+11.2	22 32.7	- 4 44'	5.5
17 O	11 59.6	23 43 19	+65.28	132.25	+ 0 56.7	+11.3	23 22.0	+ 0 43'	5.0
							23 31.5	+ 1 34'	5.6
18 U	0 24.2	0 9 56	+65.73	134.03	+ 3 12.1	+11.3	0 20.4	+ 1 24'	5.8
O	12 49.1	0 36 56	+66.27	136.10	+ 5 26.3	+11.1	0 27.4	+ 6 25'	5.7
19 U	1 14.5	1 4 22	+66.87	138.45	+ 7 36.9	+10.7	1 3.3	+ 9 23'	6.5
O	13 40.4	1 32 16	+67.54	141.02	+ 9 42.0	+10.1	1 8.7	+ 7 3'	4.2
20 U	2 6.8	2 0 46	+68.23	143.71	+11 39.2	+ 9.4	1 45.7	+10 33'	5.8
O	14 33.8	2 29 46	+68.93	146.43	+13 26.3	+ 8.5	1 54.2	+11 49'	6.2
21 U	3 1.2	2 59 18	+69.60	149.06	+15 1.1	+ 7.4	2 46.1	+14 41'	5.5
O	15 29.2	3 29 21	+70.21	151.44	+16 21.7	+ 6.1	2 59.3	+15 29'	6.5
22 U	3 57.7	3 59 50	+70.72	153.43	+17 26.3	+ 4.7	3 55.2	+17 55'	5.7
O	16 26.5	4 30 40	+71.10	154.90	+18 13.3	+ 3.2	4 3.5	+19 21'	5.8
23 U	4 55.5	5 1 44	+71.32	155.73	+18 41.7	+ 1.6	5 3.1	+19 44'	6.5
O	17 24.6	5 32 55	+71.36	155.86	+18 50.8	0.0	5 13.5	+20 2'	6.5
24 U	5 53.7	6 4 2	+71.24	155.28	+18 40.6	- 1.7	5 58.2	+20 8'	4.8
O	18 22.6	6 34 59	+70.94	154.05	+18 11.2	- 3.3	6 6.3	+19 49'	5.6

Sept. 9 ^h 23 Apogäum.

Sept. 23 ^h 2 Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Sept. 24.0	^h 5 ^m 49 ^s 21.23	^m 29 ^s 51.08	+18° 47' 49.1	0° 19' 14.9	8.23657	- 35	16' 9.2
24.5	6 19 12.31	29 38.13	18 28 34.2	0 36 35.5	8.23622	49	16 8.4
25.0	6 48 50.44	29 19.31	17 51 58.7	0 53 5.0	8.23573	63	16 7.3
25.5	7 18 9.75	28 55.75	16 58 53.7	1 8 24.5	8.23510	77	16 5.9
26.0	7 47 5.50	28 28.91	15 50 29.2	1 22 18.8	8.23433	90	16 4.2
26.5	8 15 34.41	28 0.20	14 28 10.4	1 34 35.5	8.23343	104	16 2.2
27.0	8 43 34.61	27 31.03	12 53 34.9	1 45 7.0	8.23239	118	15 59.9
27.5	9 11 5.64	27 2.56	11 8 27.9	1 53 47.6	8.23121	133	15 57.3
28.0	9 38 8.20	26 35.82	9 14 40.3	2 0 35.3	8.22988	148	15 54.3
28.5	10 4 44.02	26 11.54	7 14 5.0	-2 5 29.3	8.22840	-162	15 51.1
29.0	10 30 55.56	25 50.22	+ 5 8 35.7	2 8 31.7	8.22678	176	15 47.5
29.5	10 56 45.78	25 32.22	3 0 4.0	2 9 46.2	8.22502	189	15 43.7
30.0	11 22 18.00	25 17.62	+ 0 50 17.8	2 9 16.2	8.22313	200	15 39.6
30.5	11 47 35.62	25 6.43	- 1 18 58.4	2 7 7.8	8.22113	210	15 35.3
Oct. 1.0	12 12 42.05	24 58.38	3 26 6.2	2 3 26.8	8.21903	216	15 30.8
1.5	12 37 40.43	24 53.28	5 29 33.0	1 58 20.0	8.21687	221	15 26.2
2.0	13 2 33.71	24 50.70	7 27 53.0	1 51 53.8	8.21466	222	15 21.5
2.5	13 27 24.41	24 50.23	9 19 46.8	1 44 16.6	8.21244	219	15 16.8
3.0	13 52 14.64	24 51.30	11 4 3.4	1 35 35.9	8.21025	212	15 12.2
3.5	14 17 5.94	24 53.54	12 39 39.3	-1 25 59.3	8.20813	-202	15 7.7
4.0	14 41 59.48	24 56.29	-14 5 38.6	1 15 35.0	8.20611	189	15 3.5
4.5	15 6 55.77	24 59.04	15 21 13.6	1 4 31.1	8.20422	170	14 59.6
5.0	15 31 54.81	25 1.53	16 25 44.7	0 52 54.7	8.20252	150	14 56.1
5.5	15 56 56.34	25 3.22	17 18 39.4	0 40 54.6	8.20102	126	14 53.0
6.0	16 21 59.56	25 3.76	17 59 34.0	0 28 36.8	8.19976	99	14 50.4
6.5	16 47 3.32	25 3.08	18 28 10.8	0 16 9.6	8.19877	68	14 48.4
7.0	17 12 6.40	25 1.13	18 44 20.4	-0 3 38.7	8.19809	36	14 47.0
7.5	17 37 7.53	24 57.94	18 47 59.1	+0 8 49.3	8.19773	- 4	14 46.2
8.0	18 2 5.47	24 53.75	18 39 9.8	0 21 8.9	8.19769	+ 30	14 46.2
8.5	18 26 59.22	24 48.84	18 18 0.9	+0 33 15.1	8.19799	+ 66	14 46.8
9.0	18 51 48.06	24 43.56	-17 44 45.8	0 45 3.1	8.19865	100	14 48.1
9.5	19 16 31.62	24 38.38	16 59 42.7	0 56 28.0	8.19965	134	14 50.2
10.0	19 41 10.00	24 33.80	16 3 14.7	1 7 26.0	8.20099	168	14 52.9
10.5	20 5 43.80	24 30.36	14 55 48.7	1 17 52.6	8.20267	198	14 56.4
11.0	20 30 14.16	24 28.54	13 37 56.1	1 27 43.4	8.20465	226	15 0.5
11.5	20 54 42.70	24 28.89	12 10 12.7	1 36 52.5	8.20691	250	15 5.2
12.0	21 19 11.59	24 31.84	10 33 20.2	1 45 14.9	8.20941	272	15 10.4
12.5	21 43 43.43	24 37.82	8 48 5.3	1 52 43.4	8.21213	288	15 16.1
13.0	22 8 21.25	24 47.22	6 55 21.9	1 59 9.9	8.21501	298	15 22.2
13.5	22 33 8.47		4 56 12.0		8.21799		15 28.6

Sept. 24 ^h 5 ^m 25.1 Letztes Viertel. Oct. 1 ^h 6 ^m 2.7 Neunond. Oct. 9 ^h 6 ^m 14.7 Erstes Viertel.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Decl.	Gr.
Sept. 24	U 5 ^h 53.7 ^m	6 ^h 4 ^m 2 ^s	+71.24	155.28	+18° 40.6'	- 1.7	5 ^h 58.2 ^m	+20° 8'	4.8
	O 18 22.6	6 34 59	+70.94	154.05	+18 11.2	- 3.3	6 6.3	+19 49	5.6
25	U 6 51.2	7 5 38	+70.50	152.23	+17 23.6	- 4.7	7 7.8	+16 20	5.4
	O 19 19.4	7 35 52	+69.94	149.98	+16 18.9	- 6.1	7 12.5	+16 43	3.6
26	U 7 47.1	8 5 37	+69.29	147.43	+14 58.6	- 7.3	8 5.5	+14 55	6.3
	O 20 14.3	8 34 51	+68.60	144.72	+13 24.5	- 8.4	8 12.7	+15 59	6.5
27	U 8 40.9	9 3 32	+67.89	142.01	+11 38.5	- 9.3			
	O 21 7.0	9 31 41	+67.21	139.39	+ 9 42.7	-10.0			
28	U 9 32.6	9 59 19	+66.56	136.97	+ 7 39.2	-10.6			
	O 21 57.8	10 26 30	+65.99	134.81	+ 5 30.2	-10.9			
29	U 10 22.5	10 53 17	+65.49	132.94	+ 3 17.6	-11.1			
	O 22 46.9	11 19 43	+65.08	131.40	+ 1 3.5	-11.2			
30	U 11 11.0	11 45 53	+64.75	130.20	- 1 10.2	-11.1			
	O 23 34.9	12 11 50	+64.51	129.30	- 3 21.7	-10.8			
Oct. 1	U 11 58.7	12 37 38	-64.36	128.72	- 5 29.3	-10.4			
	O — — —	— — —	— — —	— — —	— — —	— — —			
2	O 0 22.4	13 3 20	-64.27	128.38	- 7 31.5	- 9.9			
	U 12 46.0	13 29 0	-64.25	128.25	- 9 26.7	- 9.3			
3	O 1 9.6	13 54 39	-64.29	128.29	-11 13.7	- 8.5			
	U 13 33.2	14 20 19	-64.35	128.46	-12 51.4	- 7.7			
4	O 1 56.9	14 46 2	-64.44	128.70	-14 18.7	- 6.8			
	U 14 20.6	15 11 48	-64.54	128.96	-15 34.7	- 5.9			
5	O 2 44.4	15 37 38	-64.64	129.21	-16 38.8	- 4.8			
	U 15 8.3	16 3 29	-64.73	129.39	-17 30.5	- 3.8			
6	O 3 32.1	16 29 23	-64.78	129.47	-18 9.3	- 2.7			
	U 15 56.0	16 55 16	-64.80	129.43	-18 34.9	- 1.6			
7	O 4 19.8	17 21 8	-64.78	129.27	-18 47.1	- 0.5	16 59.0	-20 21	6.5
	U 16 43.6	17 46 58	-64.74	128.99	-18 46.0	+ 0.6	17 14.2	-17 39	6.0
8	O 5 7.3	18 12 44	-64.65	128.61	-18 31.6	+ 1.7	17 50.2	-18 47	6.5
	U 17 30.9	18 38 24	-64.55	128.16	-18 4.2	+ 2.8	17 54.2	-20 20	6.5
9	O 5 54.5	19 3 59	-64.42	127.67	-17 24.0	+ 3.9	18 25.7	-18 28	5.2
	U 18 18.0	19 29 28	-64.29	127.20	-16 31.5	+ 4.9	18 37.2	-19 23	6.5
10	O 6 41.3	19 54 52	-64.18	126.78	-15 27.0	+ 5.9	19 16.2	-18 29	6.1
	U 19 4.6	20 20 11	-64.08	126.47	-14 11.1	+ 6.8	19 35.2	-16 31	5.5
11	O 7 27.8	20 45 27	-64.01	126.31	-12 44.5	+ 7.7	20 15.6	-15 5	3.4
	U 19 51.0	21 10 44	-64.00	126.37	-11 7.8	+ 8.5	20 25.6	-15 23	6.2
12	O 8 14.3	21 36 2	-64.05	126.68	- 9 21.9	+ 9.2	21 9.0	-11 1	6.5
	U 20 37.7	22 1 25	-64.19	127.28	- 7 27.7	+ 9.8	21 17.7	- 9 44	6.4
13	O 9 1.2	22 26 58	-64.39	128.22	- 5 26.3	+10.4	21 58.2	- 7 0	5.6
	U 21 24.9	22 52 44	-64.70	129.51	- 3 18.9	+10.8	22 4.4	- 8 1	6.5

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Oct. 13.0	22 ^h 8 ^m 21.25	24 ^m 47.22	— 6° 55' 21.9"	+1° 59' 9.9"	8.21501	+298	15' 22.2"
13.5	22 33 8.47	25 0.31	4 56 12.0	2 4 26.4	8.21799	304	15 28.6
14.0	22 58 8.78	25 17.28	2 51 45.6	2 8 22.3	8.22103	303	15 35.1
14.5	23 23 26.06	25 38.22	— 0 43 23.3	2 10 47.6	8.22406	296	15 41.6
15.0	23 49 4.28	26 3.03	+ 1 27 24.3	2 11 30.7	8.22702	284	15 48.1
15.5	0 15 7.31	26 31.42	3 38 55.0	2 10 21.1	8.22986	264	15 54.3
16.0	0 41 38.73	27 2.91	5 49 16.1	2 7 8.8	8.23250	240	16 0.1
16.5	1 8 41.64	27 36.69	7 56 24.9	2 1 45.8	8.23490	210	16 5.4
17.0	1 36 18.33	28 11.70	9 58 10.7	1 54 7.2	8.23700	178	16 10.1
17.5	2 4 30.03	28 46.53	11 52 17.9	+1 44 12.4	8.23878	+141	16 14.1
18.0	2 33 16.56	29 19.62	+13 36 30.3	1 32 5.4	8.24019	104	16 17.3
18.5	3 2 36.18	29 49.05	15 8 35.7	1 17 56.8	8.24123	65	16 19.6
19.0	3 32 25.23	30 13.13	16 26 32.5	1 2 2.4	8.24188	+ 27	16 21.1
19.5	4 2 38.36	30 30.08	17 28 34.9	0 44 44.9	8.24215	— 9	16 21.7
20.0	4 33 8.44	30 38.70	18 13 19.8	0 26 30.9	8.24206	44	16 21.5
20.5	5 3 47.14	30 38.34	18 39 50.7	+0 7 50.1	8.24162	73	16 20.5
21.0	5 34 25.48	30 28.94	18 47 40.8	—0 10 47.3	8.24089	101	16 18.8
21.5	6 4 54.42	30 11.17	18 36 53.5	0 28 53.0	8.23988	123	16 16.6
22.0	6 35 5.59	29 46.32	18 8 0.5	0 46 1.1	8.23865	142	16 13.8
22.5	7 4 51.91	29 15.97	17 21 59.4	—1 1 51.5	8.23723	—158	16 10.6
23.0	7 34 7.88	28 42.08	+16 20 7.9	1 16 9.3	8.23565	170	16 7.1
23.5	8 2 49.96	28 6.45	15 3 58.6	1 28 44.6	8.23395	178	16 3.3
24.0	8 30 56.41	27 30.80	13 35 14.0	1 39 31.5	8.23217	185	15 59.4
24.5	8 58 27.21	26 56.57	11 55 42.5	1 48 28.9	8.23032	188	15 55.3
25.0	9 25 23.78	26 24.91	10 7 13.6	1 55 37.5	8.22844	191	15 51.2
25.5	9 51 48.69	25 56.65	8 11 36.1	2 0 59.8	8.22653	192	15 47.0
26.0	10 17 45.34	25 32.34	6 10 36.3	2 4 39.3	8.22461	193	15 42.8
26.5	10 43 17.68	25 12.29	4 5 57.0	2 6 40.3	8.22268	193	15 38.6
27.0	11 8 29.97	24 56.57	+ 1 59 16.7	2 7 6.4	8.22075	192	15 34.5
27.5	11 33 26.54	24 45.11	— 0 7 49.7	—2 6 2.0	8.21883	—191	15 30.4
28.0	11 58 11.65	24 37.63	— 2 13 51.7	2 3 31.0	8.21692	189	15 26.3
28.5	12 22 49.28	24 33.81	4 17 22.7	1 59 37.2	8.21503	188	15 22.3
29.0	12 47 23.09	24 33.15	6 16 59.9	1 54 25.2	8.21315	186	15 18.3
29.5	13 11 56.24	24 35.12	8 11 25.1	1 47 59.3	8.21129	183	15 14.3
30.0	13 36 31.36	24 39.12	9 59 24.4	1 40 24.2	8.20946	178	15 10.5
30.5	14 1 10.48	24 44.42	11 39 48.6	1 31 45.6	8.20768	172	15 6.8
31.0	14 25 54.90	24 50.39	13 11 34.2	1 22 9.9	8.20596	165	15 3.2
31.5	14 50 45.29	24 56.33	14 33 44.1	1 11 44.2	8.20431	155	14 59.8
Nov. 1.0	15 15 41.62	25 1.57	15 45 28.3	1 0 36.0	8.20276	142	14 56.6
1.5	15 40 43.19		16 46 4.3		8.20134		14 53.6

Oct. 16 18^h 54^m 7 Vollmond.Oct. 23 11^h 51^m 7 Letztes Viertel.Oct. 30 21^h 7.2 Neumond.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl.-Sterne		
							AR.	Decl.	Gr.
Oct. 13 O	9 ^h 1.2 ^m	22 26 58 ^s	-64.39	128.22	- 5° 26.3'	+10.4	21 58.2	- 7° 0'	5.6
U	21 24.9	22 52 44	-64.70	129.51	- 3 18.9	+10.8	22 4.4	- 8 1	6.5
14 O	9 49.0	23 18 49	-65.10	131.18	- 1 7.0	+11.1	22 32.7	- 4 44	5.5
U	22 13.4	23 45 15	-65.60	133.22	+ 1 7.9	+11.3	22 53.3	- 2 55	6.3
15 O	10 38.2	0 12 8	-66.19	135.61	+ 3 24.0	+11.3	23 41.4	+ 2 57	5.2
U	23 3.6	0 39 33	-66.88	138.40	+ 5 39.2	+11.2	23 48.1	+ 1 33	6.3
16 O	11 29.5	1 7 32	-67.62	141.41	+ 7 51.1	+10.8	0 43.7	+ 7 3	4.6
U	23 56.1	1 36 9	+68.41	144.77	+ 9 57.5	+10.2	0 57.9	+ 7 22	4.5
17 O	12 23.3	2 5 25	+69.23	148.06	+11 55.8	+ 9.5	1 32.0	+11 38	5.6
—	—	—	—	—	—	—	1 45.7	+10 33	5.8
18 U	0 51.2	2 35 21	+70.02	151.27	+13 43.5	+ 8.5	2 27.6	+14 36	6.5
O	13 19.7	3 5 53	+70.74	154.19	+15 18.0	+ 7.3	2 39.2	+14 54	5.8
19 U	1 48.7	3 36 58	+71.35	156.65	+16 37.0	+ 5.9	3 34.0	+16 13	6.4
O	14 18.2	4 8 29	+71.82	158.47	+17 38.6	+ 4.3	3 47.6	+17 2	6.0
20 U	2 47.9	4 40 17	+72.10	159.50	+18 21.2	+ 2.7	4 40.6	+18 33	6.5
O	15 17.8	5 12 13	+72.17	159.66	+18 43.9	+ 1.0	4 45.7	+18 40	5.1
21 U	3 47.6	5 44 5	+72.04	158.92	+18 46.3	- 0.7	5 49.2	+19 44	5.9
O	16 17.2	6 15 44	+71.69	157.35	+18 28.6	- 2.3	5 57.7	+19 42	5.1
22 U	4 46.4	6 46 59	+71.17	155.06	+17 51.7	- 3.8	6 41.7	+18 18	6.5
O	17 15.1	7 17 44	+70.51	152.23	+16 56.8	- 5.3	6 56.8	+17 54	6.2
23 U	5 43.2	7 47 53	+69.76	149.05	+15 45.5	- 6.6	7 33.9	+17 54	5.2
O	18 10.7	8 17 23	+68.94	145.72	+14 19.7	- 7.7	7 51.5	+16 3	5.9
24 U	6 37.5	8 46 12	+68.11	142.39	+12 41.5	- 8.6	8 41.6	+12 28	5.8
O	19 3.6	9 14 22	+67.30	139.21	+10 52.9	- 9.4	8 50.6	+12 0	5.7
25 U	7 29.1	9 41 56	+66.55	136.31	+ 8 55.8	-10.0	9 36.0	+10 20	3.8
O	19 54.1	10 8 57	+65.88	133.75	+ 6 52.4	-10.5	9 51.3	+ 9 24	6.0
26 U	8 18.6	10 35 29	+65.28	131.58	+ 4 44.6	-10.8	10 38.3	+ 5 16	6.1
O	20 42.7	11 1 37	+64.80	129.82	+ 2 34.1	-10.9	10 55.5	+ 4 9	5.0
27 U	9 6.5	11 27 27	+64.42	128.48	+ 0 22.8	-10.9			
O	21 30.0	11 53 3	+64.14	127.53	- 1 47.8	-10.8			
28 U	9 53.4	12 18 30	+63.96	126.97	- 3 55.9	-10.5			
O	22 16.8	12 43 52	+63.86	126.73	- 6 0.1	-10.1			
29 U	10 40.1	13 9 13	+63.86	126.78	- 7 59.0	- 9.6			
O	23 3.4	13 34 35	+63.91	127.04	- 9 51.2	- 9.0			
30 U	11 26.8	14 0 2	+64.01	127.48	-11 35.4	- 8.3			
O	23 50.4	14 25 35	-64.15	127.99	-13 10.4	- 7.5			
31 U	12 14.0	14 51 14	-64.30	128.54	-14 35.2	- 6.6			
—	—	—	—	—	—	—			
Nov. 1 O	0 37.7	15 17 0	-64.45	129.07	-15 48.9	- 5.6			
U	13 1.5	15 42 52	-64.57	129.49	-16 50.7	- 4.6			

Oct. 19 15^h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Nov. 1.0	15 ^h 15 ^m 41.62	^m 1.57	-15° 45' 28.3"	-1° 0' 36.0"	8.20276	-142	14 56.6
1.5	15 40 43.19	25 5.58	16 46 4.3	0 48 53.3	8.20134	129	14 53.6
2.0	16 5 48.77	25 7.85	17 34 57.6	0 36 45.1	8.20005	112	14 51.0
2.5	16 30 56.62	25 8.10	18 11 42.7	0 24 20.3	8.19893	93	14 48.7
3.0	16 56 4.72	25 6.15	18 36 3.0	-0 11 47.2	8.19800	71	14 46.8
3.5	17 21 10.87	25 2.06	18 47 50.2	+0 0 45.4	8.19729	47	14 45.3
4.0	17 46 12.93	24 56.01	18 47 4.8	0 13 10.7	8.19682	-20	14 44.4
4.5	18 11 8.94	24 48.39	18 33 54.1	0 25 21.1	8.19662	+8	14 44.0
5.0	18 35 57.33	24 39.68	18 8 33.0	0 37 11.2	8.19670	39	14 44.1
5.5	19 0 37.01	24 30.45	17 31 21.8	+0 48 35.6	8.19709	+71	14 44.9
6.0	19 25 7.46	24 21.38	-16 42 46.2	0 59 31.0	8.19780	104	14 46.4
6.5	19 49 28.84	24 13.17	15 43 15.2	1 9 53.5	8.19884	137	14 48.5
7.0	20 13 42.01	24 6.48	14 33 21.7	1 19 40.6	8.20021	170	14 51.3
7.5	20 37 48.49	24 1.99	13 13 41.1	1 28 48.9	8.20191	204	14 54.8
8.0	21 1 50.48	24 0.32	11 44 52.2	1 37 16.2	8.20395	234	14 59.0
8.5	21 25 50.80	24 2.02	10 7 36.0	1 44 58.9	8.20629	264	15 3.9
9.0	21 49 52.82	24 7.63	8 22 37.1	1 51 52.6	8.20893	291	15 9.4
9.5	22 14 0.45	24 17.61	6 30 44.5	1 57 51.2	8.21184	313	15 15.5
10.0	22 38 18.06	24 32.28	4 32 53.3	2 2 48.6	8.21497	331	15 22.1
10.5	23 2 50.34	24 51.91	2 30 4.7	+2 6 36.1	8.21828	+344	15 29.2
11.0	23 27 42.25	25 16.63	-0 23 28.6	2 9 3.2	8.22172	351	15 36.6
11.5	23 52 58.88	25 46.43	+1 45 34.6	2 9 58.5	8.22523	350	15 44.2
12.0	0 18 45.31	26 21.01	3 55 33.1	2 9 9.0	8.22873	344	15 51.8
12.5	0 45 6.32	26 59.88	6 4 42.1	2 6 21.7	8.23217	329	15 59.4
13.0	1 12 6.20	27 42.15	8 11 3.8	2 1 23.5	8.23546	305	16 6.7
13.5	1 39 48.35	28 26.54	10 12 27.3	1 54 5.0	8.23851	274	16 13.5
14.0	2 8 14.89	29 11.35	12 6 32.3	1 44 19.0	8.24125	238	16 19.7
14.5	2 37 26.24	29 54.47	13 50 51.3	1 32 5.1	8.24363	194	16 25.0
15.0	3 7 20.71	30 33.45	15 22 56.4	1 17 30.2	8.24557	147	16 29.4
15.5	3 37 54.16	31 5.77	16 40 26.6	+1 0 49.8	8.24704	+95	16 32.8
16.0	4 8 59.93	31 29.06	+17 41 16.4	0 42 28.4	8.24799	+43	16 35.0
16.5	4 40 28.99	31 41.47	18 23 44.8	0 22 58.3	8.24842	-10	16 36.0
17.0	5 12 10.46	31 41.94	18 46 43.1	+0 2 56.6	8.24832	61	16 35.7
17.5	5 43 52.40	31 30.43	18 49 39.7	-0 16 57.0	8.24771	109	16 34.3
18.0	6 15 22.83	31 7.90	18 32 42.7	0 36 5.2	8.24662	150	16 31.8
18.5	6 46 30.73	30 36.17	17 56 37.5	0 53 56.4	8.24512	187	16 28.4
19.0	7 17 6.90	29 57.53	17 2 41.1	1 10 5.4	8.24325	219	16 24.2
19.5	7 47 4.43	29 14.60	15 52 35.7	1 24 16.2	8.24106	242	16 19.2
20.0	8 16 19.03	28 29.91	14 28 19.5	1 36 20.5	8.23864	260	16 13.8
20.5	8 44 48.94		12 51 59.0		8.23604		16 8.0

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg. -D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Decl.	Gr.
Nov. 1 O	0 ^h 37.7 ^m	15 ^h 17 ^m 0 ^s	-64.45	129.07	-15° 48.9'	- 5.6			
U	13 1.5	15 42 52	-64.57	129.49	-16 50.7	- 4.6			
2 O	1 25.4	16 8 48	-64.67	129.78	-17 39.9	- 3.6			
U	13 49.4	16 34 46	-64.73	129.87	-18 16.2	- 2.5			
3 O	2 13.3	17 0 44	-64.73	129.77	-18 39.2	- 1.4			
U	14 37.2	17 26 39	-64.69	129.45	-18 48.7	- 0.2			
4 O	3 1.0	17 52 30	-64.59	128.93	-18 44.9	+ 0.9			
U	15 24.7	18 18 13	-64.45	128.26	-18 27.9	+ 2.0			
5 O	3 48.2	18 43 47	-64.27	127.48	-17 58.0	+ 3.0	18 ^h 15.7 ^m	-18° 54'	var.
U	16 11.6	19 9 12	-64.08	126.63	-17 15.7	+ 4.0	18 19.6	-20 36	4.9
6 O	4 34.8	19 34 26	-63.89	125.79	-16 21.3	+ 5.0	19 1.4	-18 53	6.5
U	16 57.8	19 59 30	-63.71	125.02	-15 15.5	+ 5.9	19 16.0	-18 2	3.9
7 O	5 20.7	20 24 27	-63.56	124.40	-13 59.0	+ 6.8	19 52.4	-15 45	5.0
U	17 43.5	20 49 17	-63.45	123.97	-12 32.4	+ 7.6	20 15.3	-15 6	6.7
8 O	6 6.3	21 14 3	-63.42	123.80	-10 56.4	+ 8.4	20 47.8	-11 57	6.5
U	18 29.0	21 38 49	-63.45	123.95	- 9 11.8	+ 9.1	21 4.3	-11 46	4.6
9 O	6 51.8	22 3 40	-63.59	124.48	- 7 19.4	+ 9.7	21 32.6	- 8 18	4.8
U	19 14.8	22 28 39	-63.82	125.43	- 5 20.2	+10.2	21 39.8	- 9 32	5.2
10 O	7 38.0	22 53 53	-64.16	126.82	- 3 15.3	+10.6	22 19.1	- 5 20	5.8
U	20 1.5	23 19 25	-64.62	128.69	- 1 5.8	+11.0	22 32.7	- 4 44	5.5
11 O	8 25.4	23 45 24	-65.20	131.05	+ 1 6.9	+11.2	23 22.0	+ 0 43	5.0
U	20 49.8	0 11 54	-65.89	133.89	+ 3 21.2	+11.2	23 31.4	+ 1 34	5.6
12 O	9 14.9	0 39 1	-66.71	137.19	+ 5 35.2	+11.1	0 20.4	+ 1 24	5.8
U	21 40.7	1 6 50	-67.60	140.90	+ 7 46.9	+10.8	0 27.4	+ 6 25	5.7
13 O	10 7.2	1 35 25	-68.58	144.92	+ 9 53.9	+10.3	1 3.3	+ 9 23	6.5
U	22 34.6	2 4 50	-69.58	149.11	+11 53.5	+ 9.6	1 8.7	+ 7 3	4.2
14 O	11 2.8	2 35 6	-70.57	153.28	+13 43.0	+ 8.6	1 57.4	+13 0	6.5
U	23 31.8	3 6 10	-71.50	157.21	+15 19.6	+ 7.4	2 27.6	+14 36	6.5
15 O	12 1.6	3 37 58	+72.30	160.76	+16 40.6	+ 6.0	2 59.3	+15 29	6.5
—	—	—	—	—	—	—	3 21.5	+18 25	6.5
16 U	0 32.0	4 10 23	+72.92	163.39	+17 43.5	+ 4.4	4 7.0	+17 2	6.4
O	13 2.8	4 43 14	+73.32	165.01	+18 26.5	+ 2.7	4 14.8	+18 30	5.9
17 U	1 33.8	5 16 18	+73.46	165.48	+18 48.2	+ 0.9	5 15.2	+19 43	6.5
O	14 4.8	5 49 21	+73.33	164.75	+18 48.1	- 0.9	5 21.5	+17 53	5.4
18 U	2 35.6	6 22 9	+72.93	162.90	+18 26.5	- 2.7	6 26.7	+17 51	6.5
O	15 5.9	6 54 27	+72.30	160.08	+17 44.4	- 4.3	6 36.8	+17 44	5.1
19 U	3 35.5	7 26 9	+71.50	156.54	+16 43.4	- 5.8	7 28.1	+16 2	5.0
O	16 4.3	7 57 5	+70.58	152.54	+15 25.5	- 7.1	7 33.9	+17 54	5.2
20 U	4 32.3	8 27 11	+69.59	148.35	+13 53.2	- 8.2	8 23.2	+14 32	5.9
O	16 59.5	8 56 27	+68.59	144.19	+12 8.9	- 9.1	8 37.9	+13 2	5.6

Nov. 4 15^h Apogaeum.

Nov. 16 16^h Perigaeum.

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Nov. 20.0	8 ⁿ 16 ^m 19.03	28 ^m 29.91	+14° 28' 19.5"	-1° 36' 20.5"	8.23864	-260	16' 13.8"
20.5	8 44 48.94	27 45.60	12 51 59.0	1 46 16.2	8.23604	272	16 8.0
21.0	9 12 34.54	27 3.51	11 5 42.8	1 54 6.3	8.23332	279	16 1.9
21.5	9 39 38.05	26 25.00	9 11 36.5	1 59 57.5	8.23053	279	15 55.7
22.0	10 6 3.05	25 50.94	7 11 39.0	2 3 57.5	8.22774	276	15 49.6
22.5	10 31 53.99	25 21.94	5 7 41.5	2 6 14.5	8.22498	271	15 43.6
23.0	10 57 15.93	24 58.26	3 1 27.0	2 6 56.7	8.22227	261	15 37.7
23.5	11 22 14.19	24 39.88	+ 0 54 30.3	2 6 11.8	8.21966	251	15 32.1
24.0	11 46 54.07	24 26.68	- 1 11 41.5	2 4 5.4	8.21715	238	15 26.8
24.5	12 11 20.75	24 18.34	3 15 46.9	-2 0 42.8	8.21477	-225	15 21.7
25.0	12 35 39.09	24 14.37	- 5 16 29.7	1 56 8.9	8.21252	211	15 16.9
25.5	12 59 53.46	24 14.27	7 12 38.6	1 50 26.9	8.21041	198	15 12.5
26.0	13 24 7.73	24 17.39	9 3 5.5	1 43 40.5	8.20843	183	15 8.3
26.5	13 48 25.12	24 23.03	10 46 46.0	1 35 52.9	8.20660	170	15 4.5
27.0	14 12 48.15	24 30.39	12 22 38.9	1 27 8.2	8.20490	157	15 1.0
27.5	14 37 18.54	24 38.68	13 49 47.1	1 17 30.3	8.20333	143	14 57.7
28.0	15 1 57.22	24 47.05	15 7 17.4	1 7 4.9	8.20190	129	14 54.8
28.5	15 26 44.27	24 54.75	16 14 22.3	0 55 57.7	8.20061	117	14 52.1
29.0	15 51 39.02	25 1.00	17 10 20.0	0 44 16.1	8.19944	102	14 49.7
29.5	16 16 40.02	25 5.20	17 54 36.1	-0 32 8.0	8.19842	- 89	14 47.6
30.0	16 41 45.22	25 6.93	-18 26 44.1	0 19 42.6	8.19753	72	14 45.8
30.5	17 6 52.15	25 5.88	18 46 26.7	-0 7 9.1	8.19681	56	14 44.4
Dec. 1.0	17 31 58.03	25 2.02	18 53 35.8	+0 5 24.0	8.19625	39	14 43.2
1.5	17 57 0.05	24 55.53	18 48 11.8	0 17 47.1	8.19586	- 18	14 42.4
2.0	18 21 55.58	24 46.69	18 30 24.7	0 29 52.3	8.19568	+ 2	14 42.1
2.5	18 46 42.27	24 36.16	18 0 32.4	0 41 32.4	8.19570	24	14 42.1
3.0	19 11 18.43	24 24.55	17 19 0.0	0 52 41.4	8.19594	49	14 42.6
3.5	19 35 42.98	24 12.58	16 26 18.6	1 3 14.7	8.19643	74	14 43.6
4.0	19 59 55.56	24 1.12	15 23 3.9	1 13 8.5	8.19717	102	14 45.1
4.5	20 23 56.68	23 50.91	14 9 55.4	+1 22 19.8	8.19819	+130	14 47.2
5.0	20 47 47.59	23 42.76	-12 47 35.6	1 30 47.0	8.19949	160	14 49.8
5.5	21 11 30.35	23 37.41	11 16 48.6	1 38 27.4	8.20109	190	14 53.1
6.0	21 35 7.76	23 35.51	9 38 21.2	1 45 20.6	8.20299	218	14 57.0
6.5	21 58 43.27	23 37.67	7 53 0.6	1 51 23.3	8.20517	249	15 1.5
7.0	22 22 20.94	23 44.44	6 1 37.3	1 56 32.4	8.20766	275	15 6.7
7.5	22 46 5.38	23 56.26	4 5 4.9	2 0 43.9	8.21041	302	15 12.5
8.0	23 10 1.64	24 13.56	2 4 21.0	2 3 52.8	8.21343	325	15 18.9
8.5	23 34 15.20	24 36.52	- 0 0 28.2	2 5 50.5	8.21668	343	15 25.8
9.0	23 58 51.72	25 5.33	+ 2 5 22.3	2 6 28.6	8.22011	358	15 33.1
9.5	0 23 57.05		4 11 50.9		8.22369		15 40.8

Nov. 21 20^h 40.5^m Letzt. Viert. Nov. 29 14^h 58.0^m Neumond. Dec. 7 19^h 20.1^m Erst. Viert.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg. -D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. -Sterne		
							AR.	Decl.	Gr.
Nov. 20	U 4 ^h 32.3 ^m	8 ^h 27 ^m 11 ^a	+69.59	148.35	+13° 53.2'	- 8.2	8 ^h 23.2 ^m	+14° 32'	5.9
	0 16 59.5	8 56 27	+68.59	144.19	+12 8.9	- 9.1	8 37.9	+13 2	5.6
21	U 5 25.9	9 24 55	+67.63	140.26	+10 14.9	- 9.8	9 26.8	+10 9	5.4
	0 17 51.6	9 52 37	+66.73	136.68	+ 8 13.6	-10.4	9 36.0	+10 20	3.8
22	U 6 16.6	10 19 38	+65.92	133.53	+ 6 7.2	-10.7	10 17.9	+ 7 2	6.5
	0 18 41.0	10 46 5	+65.24	130.88	+ 3 57.6	-10.9	10 38.3	+ 5 16	6.1
23	U 7 4.9	11 12 3	+64.66	128.75	+ 1 46.5	-10.9	11 8.8	+ 0 28	5.5
	0 19 28.5	11 37 38	+64.21	127.12	- 0 24.3	-10.8	11 18.3	+ 0 40	6.2
24	U 7 51.8	12 2 56	+63.89	125.97	- 2 33.3	-10.6	12 1.0	- 2 35	6.4
	0 20 14.9	12 28 4	+63.67	125.29	- 4 39.2	-10.3	12 13.2	- 3 24	6.8
25	U 8 37.9	12 53 5	+63.56	125.02	- 6 40.6	- 9.9			
	0 21 0.8	13 18 6	+63.55	125.09	- 8 36.2	- 9.4			
26	U 9 23.8	13 43 9	+63.61	125.45	-10 24.9	- 8.7			
	0 21 46.9	14 8 17	+63.73	126.04	-12 5.6	- 8.0			
27	U 10 10.2	14 33 34	+63.89	126.75	-13 37.1	- 7.2			
	0 22 33.6	14 58 59	+64.07	127.53	-14 58.5	- 6.3			
28	U 10 57.1	15 24 34	+64.25	128.29	-16 8.9	- 5.4			
	0 23 20.8	15 50 18	+64.41	128.95	-17 7.6	- 4.4			
29	U 11 44.6	16 16 8	+64.53	129.44	-17 53.8	- 3.3			
30	0 0 8.5	16 42 3	-64.61	129.71	-18 27.0	- 2.2			
	U 12 32.4	17 8 0	-64.62	129.74	-18 47.0	- 1.1			
Dec. 1	0 0 56.3	17 33 56	-64.58	129.50	-18 53.6	0.0			
	U 13 20.1	17 59 47	-64.47	129.00	-18 46.8	+ 1.1			
2	0 1 43.7	18 25 31	-64.30	128.26	-18 26.8	+ 2.2			
	U 14 7.3	18 51 4	-64.10	127.34	-17 54.0	+ 3.3			
3	0 2 30.7	19 16 26	-63.86	126.30	-17 8.9	+ 4.3			
	U 14 53.8	19 41 35	-63.60	125.20	-16 12.0	+ 5.2			
4	0 3 16.7	20 6 30	-63.36	124.12	-15 4.1	+ 6.1			
	U 15 39.4	20 31 14	-63.13	123.15	-13 45.8	+ 6.9			
5	0 4 1.9	20 55 46	-62.96	122.36	-12 18.0	+ 7.7	20 28.8	-14 4	6.2
	U 16 24.2	21 20 11	-62.85	121.82	-10 41.5	+ 8.4	20 45.3	-12 54	6.3
6	0 4 46.5	21 44 31	-62.81	121.59	- 8 57.2	+ 9.0	21 20.0	-10 10	5.7
	U 17 8.8	22 8 51	-62.87	121.75	- 7 5.9	+ 9.6	21 32.6	- 8 18	4.8
7	0 5 31.2	22 33 15	-63.04	122.34	- 5 8.6	+10.0	22 4.4	- 8 1	6.5
	U 17 53.7	22 57 49	-63.32	123.39	- 3 6.2	+10.4	22 12.0	- 5 53	5.9
8	0 6 16.5	23 22 39	-63.74	124.97	- 0 59.9	+10.7	22 53.3	- 2 55	6.3
	U 18 39.7	23 47 52	-64.29	127.09	+ 1 9.2	+10.8	23 10.6	- 4 2	5.6
9	0 7 3.4	0 13 33	-64.98	129.78	+ 3 19.7	+10.9	23 41.4	+ 2 57	5.2
	U 19 27.7	0 39 50	-65.79	133.02	+ 5 30.1	+10.8	23 48.1	+ 1 33	6.3

Bibl. Jag

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Diff.	Decl. app.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Dec. 9.0	23 ^h 58 ^m 51.72	25 ^m 5.33	+ 2° 5' 22.3	+2° 6' 28.6	8.22011	+358	15' 33.1
9.5	0 23 57.05	25 39.97	4 11 50.9	2 5 35.9	8.22369	366	15 40.8
10.0	0 49 37.02	26 20.03	6 17 26.8	2 3 0.3	8.22735	370	15 48.8
10.5	1 15 57.05	27 4.95	8 20 27.1	1 58 28.7	8.23105	363	15 56.9
11.0	1 43 2.00	27 53.67	10 18 55.8	1 51 48.1	8.23468	350	16 4.9
11.5	2 10 55.67	28 44.68	12 10 43.9	1 42 48.1	8.23818	329	16 12.8
12.0	2 39 40.35	29 35.90	13 53 32.0	1 31 21.7	8.24147	298	16 20.2
12.5	3 9 16.25	30 24.78	15 24 53.7	1 17 28.3	8.24445	260	16 26.9
13.0	3 39 41.03	31 8.40	16 42 22.0	1 1 16.2	8.24705	213	16 32.8
13.5	4 10 49.43	31 43.84	17 43 38.2	+0 43 3.3	8.24918	+161	16 37.7
14.0	4 42 33.27	32 8.38	+18 26 41.5	0 23 18.3	8.25079	103	16 41.4
14.5	5 14 41.65	32 20.02	18 49 59.8	+0 2 38.5	8.25182	+ 44	16 43.8
15.0	5 47 1.67	32 17.86	18 52 38.3	-0 18 12.9	8.25226	- 18	16 44.8
15.5	6 19 19.53	32 2.26	18 34 25.4	0 38 31.1	8.25208	79	16 44.4
16.0	6 51 21.79	31 34.62	17 55 54.3	0 57 34.9	8.25129	136	16 42.6
16.5	7 22 56.41	30 57.36	16 58 19.4	1 14 50.5	8.24993	188	16 39.4
17.0	7 53 53.77	30 13.37	15 43 28.9	1 29 53.3	8.24805	233	16 35.1
17.5	8 24 7.14	29 25.63	14 13 35.6	1 42 29.9	8.24572	272	16 29.8
18.0	8 53 32.77	28 36.88	12 31 5.7	1 52 35.7	8.24300	302	16 23.6
18.5	9 22 9.65	27 49.45	10 38 30.0	-2 0 13.8	8.23998	-324	16 16.8
19.0	9 49 59.10	27 5.07	+ 8 38 16.2	2 5 32.9	8.23674	339	16 9.5
19.5	10 17 4.17	26 25.07	6 32 43.3	2 8 44.2	8.23335	346	16 2.0
20.0	10 43 29.24	25 50.18	4 23 59.1	2 10 0.8	8.22989	345	15 54.4
20.5	11 9 19.42	25 20.88	2 13 58.3	2 9 34.8	8.22644	338	15 46.8
21.0	11 34 40.30	24 57.29	+ 0 4 23.5	2 7 38.6	8.22306	328	15 39.4
21.5	11 59 37.59	24 39.25	- 2 3 15.1	2 4 21.3	8.21978	314	15 32.4
22.0	12 24 16.84	24 26.51	4 7 36.4	1 59 51.5	8.21664	295	15 25.7
22.5	12 48 43.35	24 18.67	6 7 27.9	1 54 16.6	8.21369	274	15 19.4
23.0	13 13 2.02	24 15.16	8 1 44.5	1 47 41.9	8.21095	251	15 13.6
23.5	13 37 17.18	24 15.42	9 49 26.4	-1 40 11.9	8.20844	-229	15 8.4
24.0	14 1 32.60	24 18.74	-11 29 38.3	1 31 49.9	8.20615	205	15 3.6
24.5	14 25 51.34	24 24.34	13 1 28.2	1 22 39.9	8.20410	181	14 59.3
25.0	14 50 15.68	24 31.41	14 24 8.1	1 12 45.2	8.20229	158	14 55.6
25.5	15 14 47.09	24 39.16	15 36 53.3	1 2 10.1	8.20071	136	14 52.3
26.0	15 39 26.25	24 46.73	16 39 3.4	0 50 59.2	8.19935	115	14 49.5
26.5	16 4 12.98	24 53.37	17 30 2.6	0 39 18.1	8.19820	94	14 47.2
27.0	16 29 6.35	24 58.34	18 9 20.7	0 27 13.4	8.19726	74	14 45.3
27.5	16 54 4.69	25 1.16	18 36 34.1	0 14 52.7	8.19652	55	14 43.8
28.0	17 19 5.85	25 1.38	18 51 26.8	-0 2 24.1	8.19597	37	14 42.7
28.5	17 44 7.23		18 53 50.9		8.19560		14 41.9

Dec. 14 16^h 41.0 Vollmond.Dec. 21 8^h 53.8 Letztes Viertel.

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl.-Sterne		
							AR.	Decl.	Gr.
Dec. 9 O	7 ^h 3.4 ^m	0 13 33	-64.98	129.78	+ 3 19.7	+10.9	23 41.4	+ 2 57	5.2
U	19 27.7	0 39 50	-65.79	133.02	+ 5 30.1	+10.8	23 48.1	+ 1 33	6.3
10 O	7 52.6	1 6 49	-66.73	136.78	+ 7 38.6	+10.6	0 27.4	+ 6 25	5.7
U	20 18.3	1 34 37	-67.77	141.02	+ 9 43.1	+10.1	0 43.3	+ 6 46	6.0
11 O	8 45.0	2 3 17	-68.87	145.62	+11 41.2	+ 9.5	1 32.0	+11 38	5.6
U	21 12.5	2 32 55	-70.02	150.43	+13 30.5	+ 8.7	1 45.7	+10 33	5.8
12 O	9 41.0	3 3 30	-71.13	155.22	+15 8.3	+ 7.6	2 27.6	+14 36	6.5
U	22 10.5	3 35 1	-72.17	159.71	+16 31.6	+ 6.3	2 39.2	+14 54	5.8
13 O	10 40.8	4 7 22	-73.05	163.61	+17 37.8	+ 4.7	3 34.0	+16 13	6.4
U	23 11.8	4 40 25	-73.73	166.60	+18 24.4	+ 3.0	3 47.6	+17 2	6.0
14 O	11 43.3	5 13 57	-74.13	168.41	+18 49.7	+ 1.2	4 40.6	+18 33	6.5
—	—	—	—	—	—	—	4 45.7	+18 40	5.1
15 U	0 15.0	5 47 42	+74.23	168.88	+18 52.5	- 0.7	5 49.2	+19 44	5.9
O	12 46.6	6 21 25	+74.04	167.94	+18 32.6	- 2.6	5 57.7	+19 42	5.1
16 U	1 18.0	6 54 49	+73.55	165.74	+17 50.6	- 4.4	6 32.1	+16 29	2.0
O	13 48.8	7 27 40	+72.82	162.49	+16 48.1	- 6.0	6 36.8	+17 44	5.1
17 U	2 18.9	7 59 47	+71.91	158.49	+15 27.2	- 7.4	7 56.0	+16 44	6.4
O	14 48.1	8 31 4	+70.89	154.05	+13 50.7	- 8.6	8 3.3	+13 56	6.5
18 U	3 16.4	9 1 26	+69.82	149.47	+12 1.3	- 9.6	8 53.2	+12 14	4.3
O	15 43.8	9 30 54	+68.76	144.99	+10 1.8	-10.3	9 2.5	+11 4	5.0
19 U	4 10.4	9 59 29	+67.74	140.80	+ 7 55.1	-10.8	9 55.1	+ 8 31	5.0
O	16 36.1	10 27 16	+66.81	137.03	+ 5 43.6	-11.1	10 17.9	+ 7 2	6.5
20 U	5 1.1	10 54 21	+66.00	133.76	+ 3 29.6	-11.2	10 55.6	+ 4 9	5.0
O	17 25.6	11 20 51	+65.32	131.03	+ 1 15.2	-11.2	11 2.0	+ 2 29	5.7
21 U	5 49.6	11 46 50	+64.75	128.85	- 0 57.9	-11.0	11 44.1	+ 0 14	6.5
O	18 13.1	12 12 26	+64.32	127.20	- 3 8.2	-10.7	12 1.0	- 2 35	6.4
22 U	6 36.4	12 37 46	+64.01	126.06	- 5 14.2	-10.3	12 34.5	- 5 34	6.5
O	18 59.5	13 2 54	+63.81	125.38	- 7 14.8	- 9.8	12 42.5	- 5 46	6.1
23 U	7 22.5	13 27 57	+63.71	125.11	- 9 8.8	- 9.2	13 27.9	- 9 40	5.5
O	19 45.5	13 52 58	+63.70	125.18	-10 55.2	- 8.5	13 40.8	-11 56	6.0
24 U	8 8.6	14 18 2	+63.76	125.54	-12 32.9	- 7.8	14 3.3	-11 22	6.5
O	20 31.7	14 43 11	+63.87	126.08	-14 1.2	- 7.0	14 13.9	-12 55	4.6
25 U	8 54.9	15 8 28	+64.02	126.76	-15 19.2	- 6.1			
O	21 18.3	15 33 53	+64.17	127.48	-16 26.0	- 5.1			
26 U	9 41.8	15 59 27	+64.31	128.15	-17 21.1	- 4.1			
O	22 5.5	16 25 8	+64.43	128.73	-18 3.9	- 3.0			
27 U	10 29.2	16 50 56	+64.51	129.11	-18 33.8	- 2.0			
O	22 53.0	17 16 46	+64.52	129.28	-18 50.6	- 0.9			
28 U	11 16.8	17 42 37	+64.49	129.19	-18 54.0	+ 0.3			
O	23 40.6	18 8 26	+64.39	128.84	-18 44.2	+ 1.4			

Mittlerer Mittag und Mitternacht.

Datum	AR. app.	Dif.	Decl. app.	Dif.	Log. sin. A. H. Par.	Dif.	Halbm.
Dec. 28.0	17 ^h 19 ^m 5.85	^m ^s 25 1.38	-18° 51' 26.8"	-0° 2' 24.1"	8.19597	-37	14' 42.7"
28.5	17 44 7.23	24 58.86	18 53 50.9	+0 10 3.8	8.19560	20	14 41.9
29.0	18 9 6.09	24 53.59	18 43 47.1	0 22 21.7	8.19540	- 2	14 41.5
29.5	18 33 59.68	24 45.85	18 21 25.4	0 34 21.4	8.19538	+15	14 41.5
30.0	18 58 45.53	24 36.04	17 47 4.0	0 45 54.8	8.19553	31	14 41.8
30.5	19 23 21.57	24 24.75	17 1 9.2	0 56 54.8	8.19584	50	14 42.4
31.0	19 47 46.32	24 12.65	16 4 14.4	1 7 16.0	8.19634	68	14 43.4
31.5	20 11 58.97	24 0.54	14 56 58.4	1 16 52.6	8.19702	86	14 44.8
32.0	20 35 59.51		13 40 5.8		8.19788		14 46.5

Dec. 29 10^h 18.4^m Neumond.

Phasen des Mondes.

Jan. 1	5 ^h 1.4 ^m	Letztes Viertel	Juli 5	1 ^h 52.8 ^m	Neumond
9	10 8.2	Neumond	12	1 40.2	Erstes Viertel
16	19 32.0	Erstes Viertel	20	5 38.8	Vollmond
23	12 59.8	Vollmond	27	18 8.2	Letztes Viertel
31	2 2.2	Letztes Viertel	Aug. 3	9 10.8	Neumond
Febr. 8	2 15.1	Neumond	10	17 17.8	Erstes Viertel
15	3 50.2	Erstes Viertel	18	18 56.9	Vollmond
22	1 57.0	Vollmond	25	23 58.1	Letztes Viertel
März 1	23 33.0	Letztes Viertel	Sept. 1	18 13.0	Neumond
9	15 43.8	Neumond	9	11 8.5	Erstes Viertel
16	11 6.4	Erstes Viertel	17	7 17.0	Vollmond
23	16 14.9	Vollmond	24	5 25.1	Letztes Viertel
31	19 17.6	Letztes Viertel	Oct. 1	6 2.7	Neumond
April 8	2 43.7	Neumond	9	6 14.7	Erstes Viertel
14	18 19.3	Erstes Viertel	16	18 54.7	Vollmond
22	7 43.2	Vollmond	23	11 51.7	Letztes Viertel
30	11 51.6	Letztes Viertel	30	21 7.2	Neumond
Mai 7	11 38.8	Neumond	Nov. 8	1 24.1	Erstes Viertel
14	2 33.3	Erstes Viertel	15	6 0.1	Vollmond
21	23 39.7	Vollmond	21	20 40.5	Letztes Viertel
30	0 54.0	Letztes Viertel	29	14 58.0	Neumond
Juni 5	19 4.5	Neumond	Dec. 7	19 20.1	Erstes Viertel
12	12 47.4	Erstes Viertel	14	16 41.0	Vollmond
20	15 10.3	Vollmond	21	8 53.8	Letztes Viertel
28	10 45.4	Letztes Viertel	29	10 18.4	Neumond

Im Meridian von Berlin.

Datum und Culmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1 ^h Länge	Decl.	Bew. in 1 ^h Länge	Vergl. - Sterne		
							AR.	Decl.	Gr.
Dec. 28 U	11 ^h 16 ^m .8	17 ^h 42 ^m 37 ^s	+64.49	129.19	-18° 54.0	+0.3			
0	23 40.6	18 8 26	+64.39	128.84	-18 44.2	+1.4			
29 U	12 4.3	18 34 9	-64.22	128.26	-18 21.2	+2.5			
—	—	—	—	—	—	—			
30 O	0 27.9	18 59 43	-64.02	127.45	-17 45.5	+3.5			
U	12 51.2	19 25 6	-63.77	126.46	-16 57.5	+4.5			
31 O	1 14.3	19 50 17	-63.50	125.36	-15 57.8	+5.4			
U	13 37.2	20 15 14	-63.23	124.24	-14 47.1	+6.3			
32 O	1 59.9	20 39 58	-62.98	123.21	-13 26.4	+7.2			

Dec. 29 8^h Apogaeum.

Mond

im Apogaeum

Jan.	4	17 ^h
Febr.	1	12
März	1	10
März	29	5
April	25	20
Mai	23	4
Juni	19	6
Juli	16	14
Aug.	13	5
Sept.	9	23
Oct.	7	19
Nov.	4	15
Dec.	2	5
Dec.	29	8

Mond

im Perigaeum

Jan.	20	19 ^h
Febr.	16	7
März	13	9
April	10	2
Mai	8	8
Juni	5	18
Juli	4	3
Aug.	1	7
Aug.	28	20
Sept.	23	2
Oct.	19	15
Nov.	16	16
Dec.	15	2

Krater im Meridian.

Datum	Physische Libration in selenoc.		Reduction für Meridianbeobachtungen						
	Länge	Breite	in AR.		in Decl.		Parallaxe		
			$\alpha - \alpha_k$	Dif.	$\delta - \delta_k$	Dif.	lg. sin p_k	Dif.	
Jan. 0	-0.3	+0.3	-7.74	+0.38	+176.9	-27.2	"	8.20864	-460
1	0.2	0.3	-7.36	+0.40 +0.02	+149.7	-31.1	- 3.9	20404	-319
2	0.1	0.3	-6.96		+118.6			20085	
Jan. 16	+0.9	+0.3	-1.14	-1.47	+ 5.6	+21.4		8.23350	+367
17	0.9	0.4	-2.61	1.60 -0.13	+ 27.0	25.0	+ 3.6	23717	321
18	0.8	0.4	-4.21	1.54 +0.06	+ 52.0	28.6	3.6	24038	241
19	0.8	0.4	-5.75	1.26 0.28	+ 80.6	31.2	2.6	24279	+126
20	0.7	0.4	-7.01	0.79 0.47	+111.8	31.3	+ 0.1	24405	- 21
21	0.7	0.4	-7.80	-0.32 0.47	+143.1	28.0	- 3.3	24384	189
22	0.6	0.4	-8.12	+0.03 0.35	+171.1	21.1	6.9	24195	351
23	0.6	0.4	-8.09	0.20 0.17	+192.2	11.8	9.3	23844	489
24	0.6	0.4	-7.89	0.23 +0.03	+204.0	+ 1.6	10.2	23355	586
25	0.6	0.4	-7.66	0.17 -0.06	+205.6	- 8.2	9.8	22769	629
26	0.7	0.4	-7.49	0.12 -0.05	+197.4	17.0	8.8	22140	617
27	0.7	0.4	-7.37	0.12 0.00	+180.4	24.2	7.2	21523	558
28	0.8	0.4	-7.25	0.18 +0.06	+156.2	29.3	5.1	20965	457
29	0.9	0.4	-7.07	0.34 0.16	+126.9	32.4	3.1	20508	327
30	1.0	0.4	-6.73	0.57 0.23	+ 94.5	33.4	- 1.0	20181	184
31	1.2	0.4	-6.16	+0.85 +0.28	+ 61.1	-32.1	+ 1.3	19997	- 34
Febr. 1	1.3	0.4	-5.31		+ 29.0			19963	
Febr. 15	+1.7	+0.5	-6.49	-0.93	+ 71.1	+31.3		8.23814	+ 30
16	1.7	0.5	-7.42	-0.43 +0.50	+102.4	31.1	- 0.2	23844	- 36
17	1.6	0.5	-7.85	+0.03 0.46	+133.5	27.6	3.5	23808	114
18	1.6	0.5	-7.82	0.33 0.30	+161.1	21.4	6.2	23694	202
19	1.5	0.5	-7.49	0.41 +0.08	+182.5	13.0	8.4	23492	297
20	1.5	0.5	-7.08	0.33 -0.08	+195.5	+ 4.1	8.9	23195	385
21	1.5	0.5	-6.75	0.17 0.16	+199.6	- 5.1	9.2	22810	455
22	1.5	0.5	-6.58	+0.02 0.15	+194.5	13.5	8.4	22355	495
23	1.6	0.5	-6.56	-0.06 -0.08	+181.0	21.0	7.5	21860	501
24	1.6	0.5	-6.62	-0.04 +0.02	+160.0	26.8	5.8	21359	470
25	1.7	0.5	-6.66	+0.10 0.14	+133.2	31.1	4.3	20889	401
26	1.8	0.5	-6.56	0.36 0.26	+102.1	33.0	- 1.9	20488	298
27	1.9	0.5	-6.20	0.70 0.34	+ 69.1	32.7	+ 0.3	20190	168
28	2.0	0.5	-5.50	1.05 0.35	+ 36.4	30.0	2.7	20022	- 25
März 1	2.1	0.5	-4.45	+1.34 +0.29	+ 6.4	-25.1	+ 4.9	19997	+125
2	2.2	0.6	-3.11		- 18.7			20122	
März 16	+2.2	+0.6	-9.29	+0.12	+126.5	+29.9		8.23766	-258
17	2.2	0.6	-9.17	0.58 +0.46	+156.4	23.4	- 6.5	23508	296
18	2.1	0.6	-8.59	0.77 +0.19	+179.8	14.8	8.6	23212	325
19	2.0	0.6	-7.82	+0.70 -0.07	+194.6	+ 5.6	9.2	22887	-351
20	2.0	0.6	-7.12	-0.20	+200.2	- 8.9		22536	

Krater im Meridian.

Datum	Physische Libration in selenoc.		Reduction für Meridianbeobachtungen							
	Länge	Breite	in AR.		in Decl.		Parallaxe			
			$\alpha_c - \alpha_k$	Diff.	$\delta_c - \delta_k$	Diff.	lg. sin p_k	Diff.		
März 20	+2.0	+0.6	-7.12	+0.50	-0.20	+200.2	- 3.3	-8.9	8.22536	
21	2.0	0.6	-6.62	0.25	0.25	+196.9	11.9	8.6	22164	-372
22	-2.0	0.6	-6.37	+0.05	0.20	+185.0	18.9	7.0	21776	388
23	2.0	0.6	-6.32	-0.04	-0.09	+166.1	25.0	6.1	21378	398
24	2.1	0.6	-6.36	-0.01	+0.03	+141.1	29.7	4.7	20986	392
25	2.2	0.6	-6.37	+0.17	0.18	+111.4	32.5	2.8	20623	311
26	2.2	0.7	-6.20	0.50	0.33	+ 78.9	33.1	-0.6	20312	232
27	2.3	0.7	-5.70	0.89	0.39	+ 45.8	31.4	+1.7	20080	129
28	2.4	0.7	-4.81	1.27	0.38	+ 14.4	27.1	4.3	19951	- 5
29	2.5	0.7	-3.54	1.54	0.27	- 12.7	20.9	6.2	19946	+134
30	2.6	0.7	-2.00	1.63	+0.09	- 33.6	13.4	7.5	20080	278
31	2.7	0.7	-0.37	+1.47	-0.16	- 47.0	- 5.7	+7.7	20358	+418
April 1	2.8	0.7	+1.10			- 52.7			20776	
April 15	+2.1	+0.7	-9.47	+0.90		+197.3	+ 8.6		8.23067	
16	2.1	0.7	-8.57	0.77	-0.13	+205.9	- 1.2	-9.8	22574	-493
17	2.0	0.7	-7.80	0.55	0.22	+204.7	10.1	8.9	22102	472
18	2.0	0.7	-7.25	0.31	0.24	+194.6	17.7	7.6	21662	440
19	2.0	0.7	-6.94	0.13	0.18	+176.9	24.0	6.3	21258	404
20	2.0	0.8	-6.81	0.07	-0.06	+152.9	28.8	4.8	20894	364
21	2.1	0.8	-6.74	0.14	+0.07	+124.1	32.1	3.3	20569	325
22	2.1	0.8	-6.60	0.38	0.24	+ 92.0	33.6	-1.5	20290	279
23	2.2	0.8	-6.22	0.71	0.33	+ 58.4	32.6	+1.0	20066	224
24	2.3	0.8	-5.51	1.12	0.41	+ 25.8	29.4	3.2	19911	155
25	2.3	0.8	-4.39	1.48	0.36	- 3.6	23.7	5.7	19839	- 72
26	2.4	0.8	-2.91	1.68	+0.20	- 27.3	16.4	7.3	19869	+ 30
27	2.5	0.8	-1.23	1.68	0.00	- 43.7	8.3	8.1	20014	145
28	2.5	0.8	+0.45	1.47	-0.21	- 52.0	- 0.5	7.8	20286	272
29	2.6	0.8	+1.92	+1.03	-0.44	- 52.5	+ 6.0	+6.5	20690	404
30	2.6	0.8	+2.95			- 46.5			21219	+529
Mai 14	+1.6	+0.8	-9.21	+0.59		+212.8	- 7.1		8.22564	
15	1.5	0.9	-8.62	0.43	-0.16	+205.7	15.7	-8.6	21958	-606
16	1.5	0.9	-8.19	0.27	0.16	+190.0	22.8	7.1	21417	541
17	1.5	0.9	-7.92	0.18	-0.09	+167.2	28.2	5.4	20952	465
18	1.5	0.9	-7.74	0.20	+0.02	+139.0	31.9	3.7	20565	387
19	1.6	0.9	-7.54	0.34	0.14	+107.1	33.9	-2.0	20260	305
20	1.6	0.9	-7.20	0.62	0.28	+ 73.2	33.8	+0.1	20029	231
21	1.7	0.9	-6.58	0.97	0.35	+ 39.4	31.4	2.4	19872	157
22	1.7	0.9	-5.61	1.35	0.38	+ 8.0	26.6	4.8	19787	85
23	1.8	0.9	-4.26	1.62	0.27	- 18.6	19.8	6.8	19778	- 9
24	1.8	0.9	-2.64	1.72	+0.10	- 38.4	11.8	8.0	19852	+ 74
25	1.9	0.9	-0.92	+1.62	-0.10	- 50.2	- 3.5	8.3	20019	167
26	1.9	0.9	+0.70		-0.28	- 53.7		+7.5	20285	+266

Krater im Meridian.

Datum	Physische Libration in selenoc.		Reduction für Meridianbeobachtungen							
	Länge	Breite	in AR.		in Decl.		Parallaxe			
			$\alpha_c - \alpha_k$	Diff.	$\delta_c - \delta_k$	Diff.	lg. sin p_k	Diff.		
Mai	26	+1.9	+0.9	+0.70	⁰ -0.28	- 53.7	+ 4.0	+7.5	8.20285	
	27	2.0	0.9	+2.04	+1.34	0.44	- 49.7	6.0	20662	+377
	28	2.0	0.9	+2.94	0.90	0.52	- 39.7	10.0	21146	484
	29	1.9	0.9	+3.32	+0.38	0.57	- 25.4	14.3	21731	585
	30	1.9	0.9	+3.13	-0.19	0.57	- 8.7	+16.7	22399	+668
Juni	13	+0.7	+1.0	-9.01	+0.13		+180.2	-26.8	8.21402	-536
	14	0.6	1.0	-8.88	0.17	+0.04	+153.4	31.4	20866	427
	15	0.7	1.0	-8.71	0.31	0.14	+122.0	34.1	20439	317
	16	0.7	1.0	-8.40	0.55	0.24	+ 87.9	34.8	20122	211
	17	0.7	1.0	-7.85	0.87	0.32	+ 53.1	33.0	19911	112
	18	0.8	1.0	-6.98	1.23	0.36	+ 20.1	29.1	19799	- 24
	19	0.8	1.0	-5.75	1.51	0.28	- 9.0	22.9	19775	+ 56
	20	0.9	1.0	-4.24	1.67	+0.16	- 31.9	15.3	19831	133
	21	0.9	1.0	-2.57	1.63	-0.04	- 47.2	- 7.1	19964	202
	22	1.0	1.0	-0.94	1.42	0.21	- 54.3	+ 0.9	20166	278
	23	1.0	1.0	+0.48	1.08	0.34	- 53.4	7.7	20444	351
	24	1.0	1.0	+1.56	0.65	0.43	- 45.7	13.0	20795	430
	25	1.0	1.0	+2.21	+0.18	0.47	- 32.7	16.7	21225	505
	26	1.0	1.0	+2.39	-0.28	0.46	- 16.0	18.9	21730	574
27	0.9	1.0	+2.11	-0.76	-0.48	+ 2.9	+20.1	22304	+620	
28	0.8	1.0	+1.35			+ 23.0		22924		
Juli	12	-0.4	+1.1	-9.48	+0.14		+134.2	-33.6	8.20922	-462
	13	0.4	1.1	-9.34	0.41	+0.27	+100.6	35.1	20460	334
	14	0.3	1.1	-8.93	0.75	0.34	+ 65.5	34.4	20126	202
	15	0.3	1.1	-8.18	1.11	0.36	+ 31.1	31.1	19924	- 81
	16	0.2	1.1	-7.07	1.43	0.32	0.0	25.6	19843	+ 31
	17	0.2	1.1	-5.64	1.61	0.18	- 25.6	18.5	19874	124
	18	0.1	1.1	-4.03	1.62	+0.01	- 44.1	10.3	19998	202
	19	-0.1	1.1	-2.41	1.43	-0.19	- 54.4	- 2.4	20200	264
	20	0.0	1.1	-0.98	1.10	0.33	- 56.8	+ 4.9	20464	316
	21	0.0	1.1	+0.12	0.69	0.41	- 51.9	10.8	20780	357
	22	0.0	1.1	+0.81	+0.26	0.43	- 41.1	15.2	21137	394
	23	0.0	1.1	+1.07	-0.15	0.41	- 25.9	18.4	21531	428
	24	-0.1	1.1	+0.92	0.53	0.38	- 7.5	20.5	21959	459
	25	0.1	1.1	+0.39	0.83	0.30	+ 13.0	22.0	22418	480
26	0.2	1.1	-0.44	1.06	0.23	+ 35.0	23.2	22898	483	
27	0.3	1.1	-1.50	-1.19	-0.13	+ 58.2	+24.3	23381	+463	
28	0.4	1.1	-2.69			+ 82.5		23844		
Aug.	11	-1.2	+1.2	-8.91	+0.95		+ 40.9	-32.7	8.20188	-196
	12	1.2	1.2	-7.96	+0.40		+ 8.2	+4.8	19992	

Krater im Meridian.

Datum	Physische Libration in selenoc.		Reduction für Meridianbeobachtungen					
	Länge	Breite	in AR.		in Decl.		Parallaxe	
			$\alpha_c - \alpha_k$	Diff.	$\delta_c - \delta_k$	Diff.	lg. sin p_k	Diff.
Aug. 12	-1.2	+1.2	-7.96	+1.35 +0.40	+ 8.2	-27.9 +4.8	8.19992	- 54
13	1.1	1.2	-6.61	1.58 0.23	- 19.7	21.1 6.8	19938	+ 78
14	1.1	1.2	-5.03	1.65 +0.07	- 40.8	13.2 7.9	20016	194
15	1.0	1.2	-3.38	1.50 -0.15	- 54.0	- 5.1 8.1	20210	282
16	1.0	1.2	-1.88	1.15 0.35	- 59.1	+ 2.4 7.5	20492	351
17	0.9	1.2	-0.73	0.72 0.43	- 56.7	8.6 6.2	20843	391
18	0.9	1.2	-0.01	+0.23 0.49	- 48.1	13.4 4.8	21234	407
19	0.9	1.2	+0.22	-0.23 0.46	- 34.7	16.9 3.5	21641	408
20	0.9	1.2	-0.01	0.63 0.40	- 17.8	19.5 2.6	22049	389
21	1.0	1.2	-0.64	0.92 0.29	+ 1.7	21.7 2.2	22438	367
22	1.0	1.2	-1.56	1.07 0.15	+ 23.4	23.6 1.9	22805	338
23	1.1	1.2	-2.63	1.09 -0.02	+ 47.0	25.4 1.8	23143	302
24	1.2	1.2	-3.72	0.97 +0.12	+ 72.4	26.5 +1.1	23445	267
25	1.3	1.2	-4.69	-0.71 +0.26	+ 98.9	+26.5 0.0	23712	+215
26	1.4	1.2	-5.40		+125.4		23927	
Sept. 9	-1.8	+1.3	-7.17	+1.54	- 13.1	-23.7	8.20028	- 33
10	1.7	1.3	-5.63	1.71 +0.17	- 36.8	15.8 +7.9	19995	+114
11	1.7	1.3	-3.92	1.65 -0.06	- 52.6	- 7.4 8.1	20109	250
12	1.6	1.3	-2.27	1.37 0.28	- 60.0	+ 0.4 7.8	20359	365
13	1.5	1.3	-0.90	0.91 0.46	- 59.6	7.2 6.8	20724	448
14	1.5	1.3	+0.01	+0.35 0.56	- 52.4	12.2 5.0	21172	497
15	1.4	1.3	+0.36	-0.21 0.56	- 40.2	15.7 3.5	21669	507
16	1.4	1.3	+0.15	0.73 0.52	- 24.5	18.3 2.6	22176	482
17	1.4	1.3	-0.58	1.14 0.41	- 6.2	20.2 1.9	22658	421
18	1.5	1.3	-1.72	1.39 0.25	+ 14.0	22.6 2.4	23079	338
19	1.5	1.3	-3.11	1.46 -0.07	+ 36.6	24.9 2.3	23417	245
20	1.6	1.3	-4.57	1.29 +0.17	+ 61.5	27.3 2.4	23662	152
21	1.7	1.3	-5.86	0.92 0.37	+ 88.8	28.2 +0.9	23814	+ 66
22	1.8	1.3	-6.78	-0.42 0.50	+117.0	27.1 -1.1	23880	- 8
23	1.9	1.3	-7.20	0.00 0.42	+144.1	23.3 3.8	23872	74
24	2.0	1.3	-7.20	+0.24 +0.24	+167.4	+17.1 -6.2	23798	-134
25	2.1	1.3	-6.96		+184.5		23664	
Oct. 9	-1.8	+1.3	-2.59	+1.64	- 59.1	- 1.5	8.20097	+280
10	1.7	1.3	-0.95	1.28 -0.36	- 60.6	+ 5.9 +7.4	20377	416
11	1.6	1.3	+0.33	0.74 0.54	- 54.7	11.9 6.0	20793	525
12	1.6	1.3	+1.07	+0.13 0.61	- 42.8	15.7 3.8	21318	601
13	1.5	1.3	+1.20	-0.49 0.62	- 27.1	18.2 2.5	21919	631
14	1.5	1.3	+0.71	1.06 0.57	- 8.9	19.5 1.3	22550	606
15	1.5	1.3	-0.35	1.54 0.48	+ 10.6	20.8 1.3	23156	529
16	1.5	1.3	-1.89	-1.82 0.28	+ 31.4	+22.8 2.0	23685	+404
17	1.6	1.4	-3.71	-0.04	+ 54.2	+2.7	24089	

Krater im Meridian.

Datum	Physische Libration in selenoc.		Reduction für Meridianbeobachtungen					
	Länge	Breite	in AR.		in Decl.		Parallaxe	
			$\alpha_c - \alpha_k$	Diff.	$\delta_c - \delta_k$	Diff.	lg. sin p_k	Diff.
Oct. 17	-1.6	+1.4	- 3.71	-1.86 -0.04	+ 54.2	+25.5 +2.7	8.24089	+248
18	1.6	1.4	- 5.57	1.58 +0.28	+ 79.7	28.1 2.6	24337	+ 84
19	1.7	1.4	- 7.15	1.04 0.54	+107.8	28.8 +0.7	24421	- 72
20	1.8	1.4	- 8.19	-0.42 0.62	+136.6	26.5 -2.3	24349	201
21	1.9	1.4	- 8.61	+0.09 0.51	+163.1	21.0 5.5	24148	293
22	1.9	1.4	- 8.52	0.35 0.26	+184.1	12.9 8.1	23855	353
23	2.0	1.4	- 8.17	+0.36 +0.01	+197.0	+ 4.0 -8.9	23502	-386
24	2.1	1.4	- 7.81		+201.0		23116	
Nov. 7	-1.3	+1.4	+ 0.12	+1.20	- 56.0	+11.0	8.20281	+419
8	1.2	1.4	+ 1.32	0.67 -0.53	- 45.0	16.1 +5.1	20700	548
9	1.2	1.4	+ 1.99	+0.08 0.59	- 28.9	19.2 3.1	21248	653
10	1.1	1.4	+ 2.07	-0.51 0.59	- 9.7	20.6 1.4	21901	716
11	1.1	1.4	+ 1.56	1.11 0.60	+ 10.9	21.0 0.4	22617	724
12	1.1	1.4	+ 0.45	1.60 0.49	+ 31.9	21.3 0.3	23341	669
13	1.1	1.4	- 1.15	1.96 0.36	+ 53.2	22.5 1.2	24010	543
14	1.1	1.4	- 3.11	2.06 -0.10	+ 75.7	24.7 2.2	24553	358
15	1.2	1.4	- 5.17	1.83 +0.23	+100.4	26.9 2.2	24911	+139
16	1.2	1.4	- 7.00	1.31 0.52	+127.3	27.4 +0.5	25050	- 89
17	1.3	1.4	- 8.31	0.68 0.63	+154.7	24.3 -3.1	24961	290
18	1.4	1.4	- 8.99	-0.19 0.49	+179.0	17.8 6.5	24671	444
19	1.4	1.4	- 9.18	+0.09 0.28	+196.8	+ 8.8 9.0	24227	538
20	1.5	1.4	- 9.09	0.13 +0.04	+205.6	- 0.9 9.7	23689	578
21	1.5	1.4	- 8.96	+0.04 -0.09	+204.7	10.0 9.1	23111	573
22	1.6	1.4	- 8.92	-0.09 -0.13	+194.7	-18.1 -8.1	22538	-540
23	1.6	1.4	- 9.01		+176.6		21998	
Dec. 7	-0.4	+1.5	+ 2.24	+0.12	- 13.2	+22.0	8.21080	+625
8	0.3	1.5	+ 2.36	-0.39 -0.51	+ 8.8	22.9 +0.9	21705	713
9	0.3	1.5	+ 1.97	0.86 0.47	+ 31.7	22.5 -0.4	22418	762
10	0.3	1.5	+ 1.11	1.31 0.45	+ 54.2	22.0 0.5	23180	750
11	0.3	1.5	- 0.20	1.66 0.35	+ 76.2	21.8 -0.2	23930	667
12	0.3	1.5	- 1.86	1.84 -0.18	+ 98.0	22.7 +0.9	24597	509
13	0.4	1.5	- 3.70	1.79 +0.05	+120.7	23.6 +0.9	25106	284
14	0.4	1.5	- 5.49	1.48 0.31	+144.3	23.4 -0.2	25390	+ 23
15	0.5	1.5	- 6.97	1.06 0.42	+167.7	20.2 3.2	25413	-240
16	0.6	1.5	- 8.03	0.70 0.36	+187.9	13.7 6.5	25173	458
17	0.6	1.5	- 8.73	0.48 0.22	+201.6	+ 4.8 8.9	24715	616
18	0.6	1.5	- 9.21	0.37 0.11	+206.4	- 5.0 9.8	24099	701
19	0.7	1.5	- 9.58	0.37 0.00	+201.4	14.3 9.3	23398	716
20	0.7	1.5	- 9.95	0.34 0.03	+187.1	22.3 8.0	22682	679
21	0.7	1.5	-10.29	-0.27 +0.07	+164.8	-28.6 -6.3	22003	-608
22	0.6	1.5	-10.56		+136.2		21395	

Mittl. Zeit	Lage gegen den Erd-Aequator.			
	i	Δ	Ω'	$\Delta - \Omega$
Jan. 0	24 37.57 52	38° 21.41 30.31	2 22.50 1.59	357 49.84 1.46
10	24 38.09 52	37 51.10 30.30	2 20.91 1.61	357 51.30 1.48
20	24 38.61 51	37 20.80 30.29	2 19.30 1.62	357 52.78 1.48
30	24 39.12 51	36 50.51 30.28	2 17.68 1.62	357 54.26 1.49
Febr. 9	24 39.63 50	36 20.23 30.28	2 16.06 1.63	357 55.75 1.50
19	24 40.13 49	35 49.95 30.26	2 14.43 1.64	357 57.25 1.50
März 1	24 40.62 48	35 19.69 30.26	2 12.79 1.66	357 58.75 1.51
11	24 41.10 48	34 49.43 30.25	2 11.13 1.67	358 0.26 1.53
21	24 41.58 47	34 19.18 30.24	2 9.46 1.67	358 1.79 1.53
31	24 42.05 47	33 48.94 30.23	2 7.79 1.68	358 3.32 1.54
April 10	24 42.52 46	33 18.71 30.23	2 6.11 1.70	358 4.86 1.54
20	24 42.98 45	32 48.48 30.22	2 4.41 1.70	358 6.40 1.56
30	24 43.43 44	32 18.26 30.20	2 2.71 1.71	358 7.96 1.57
Mai 10	24 43.87 44	31 48.06 30.20	2 1.00 1.72	358 9.53 1.57
20	24 44.31 43	31 17.86 30.19	1 59.28 1.72	358 11.10 1.58
30	24 44.74 43	30 47.67 30.19	1 57.56 1.74	358 12.68 1.59
Juni 9	24 45.17 42	30 17.48 30.17	1 55.82 1.75	358 14.27 1.60
19	24 45.59 42	29 47.31 30.17	1 54.07 1.75	358 15.87 1.60
29	24 46.01 41	29 17.14 30.16	1 52.32 1.76	358 17.47 1.61
Juli 9	24 46.42 40	28 46.98 30.16	1 50.56 1.77	358 19.08 1.62
19	24 46.82 40	28 16.82 30.15	1 48.79 1.78	358 20.70 1.62
29	24 47.22 39	27 46.67 30.14	1 47.01 1.79	358 22.32 1.63
Aug. 8	24 47.61 38	27 16.53 30.13	1 45.22 1.79	358 23.95 1.64
18	24 47.99 38	26 46.40 30.13	1 43.43 1.80	358 25.59 1.65
28	24 48.37 37	26 16.27 30.12	1 41.63 1.81	358 27.24 1.65
Sept. 7	24 48.74 37	25 46.15 30.11	1 39.82 1.82	358 28.89 1.66
17	24 49.11 36	25 16.04 30.10	1 38.00 1.82	358 30.55 1.67
27	24 49.47 34	24 45.94 30.10	1 36.18 1.83	358 32.22 1.67
Oct. 7	24 49.81 34	24 15.84 30.10	1 34.35 1.84	358 33.89 1.68
17	24 50.15 33	23 45.74 30.09	1 32.51 1.84	358 35.57 1.68
27	24 50.48 33	23 15.65 30.08	1 30.67 1.85	358 37.25 1.69
Nov. 6	24 50.81 32	22 45.57 30.08	1 28.82 1.85	358 38.94 1.70
16	24 51.13 31	22 15.49 30.07	1 26.97 1.86	358 40.64 1.70
26	24 51.44 31	21 45.42 30.07	1 25.11 1.87	358 42.34 1.71
Dec. 6	24 51.75 30	21 15.35 30.06	1 23.24 1.88	358 44.05 1.71
16	24 52.05 30	20 45.29 30.05	1 21.36 1.88	358 45.76 1.72
26	24 52.35 28	20 15.24 30.05	1 19.48 1.88	358 47.48 1.72
36	24 52.63	19 45.19	1 17.60	358 49.20

Mittl. Zeit	o ^h Aufst. Knoten der Mondbahn	Mittlere Länge des Mondes	Bewegung der mittleren Länge des Mondes nach mittlerer Sonnenzeit									
			d	o	o	o	o	m	o	o	m	
Jan. 0	220° 31' 34.3	168° 43' 31.0	0	0	0	0.0	0	0	0.0	35	19	12.9
10	219 59 48.0	300 29 21.3	1	13	10	35.0	1	0	32.9	36	19	45.9
20	219 28 1.6	72 15 11.6	2	26	21	10.1	2	1	5.9	37	20	18.8
30	218 56 15.3	204 1 1.8	3	39	31	45.1	3	1	38.8	38	20	51.8
Febr. 9	218 24 28.9	335 46 52.1	4	52	42	20.1	4	2	11.8	39	21	24.7
19	217 52 42.6	107 32 42.4	5	65	52	55.1	5	2	44.7	40	21	57.7
März 1	217 20 56.2	239 18 32.7	6	79	3	30.2	6	3	17.6	41	22	30.6
11	216 49 9.9	11 4 23.0	7	92	14	5.2	7	3	50.6	42	23	3.5
21	216 17 23.6	142 50 13.3	8	105	24	40.2	8	4	23.5	43	23	36.5
31	215 45 37.2	274 36 3.6	9	118	35	15.2	9	4	56.5	44	24	9.4
April 10	215 13 50.9	46 21 53.9	10	131	45	50.3	10	5	29.4	45	24	42.3
20	214 42 4.5	178 7 44.2					11	6	2.4	46	25	15.3
30	214 10 18.2	309 53 34.5					12	6	35.3	47	25	48.2
Mai 10	213 38 31.8	81 39 24.8					13	7	8.2	48	26	21.2
20	213 6 45.5	213 25 15.1					14	7	41.2	49	26	54.1
30	212 34 59.1	345 11 5.4	o ^h	o	o	o.0						
Juni 9	212 3 12.8	116 56 55.7	1	0	32	56.5						
19	211 31 26.4	248 42 46.0	2	1	5	52.9	15	8	14.1	50	27	27.1
29	210 59 40.1	20 28 36.2	3	1	38	49.4	16	8	47.1	51	28	0.0
Juli 9	210 27 53.8	152 14 26.5	4	2	11	45.8	17	9	20.0	52	28	32.9
19	209 56 7.4	284 0 16.8	5	2	44	42.3	18	9	52.9	53	29	5.9
29	209 24 21.1	55 46 7.1	6	3	17	38.8	19	10	25.9	54	29	38.8
Aug. 8	208 52 34.7	187 31 57.4	7	3	50	35.2	20	10	58.8	55	30	11.7
18	208 20 48.4	319 17 47.7	8	4	23	31.7	21	11	31.8	56	30	44.7
28	207 49 2.0	91 3 38.0	9	4	56	28.1	22	12	4.7	57	31	17.6
Sept. 7	207 17 15.7	222 49 28.3	10	5	29	24.6	23	12	37.6	58	31	50.6
17	206 45 29.3	354 35 18.6	11	6	2	21.1	24	13	10.6	59	32	23.5
27	206 13 43.0	126 21 8.9	12	6	35	17.5	25	13	43.5	60	32	56.5
Oct. 7	205 41 56.6	258 6 59.2	13	7	8	14.0	26	14	16.5			
17	205 10 10.3	29 52 49.5	14	7	41	10.4	27	14	49.4			
27	204 38 24.0	161 38 39.8	15	8	14	6.9	28	15	22.3	o	o	o.0
Nov. 6	204 6 37.6	293 24 30.1	16	8	47	3.4	29	15	55.3	10	5.5	
16	203 34 51.3	65 10 20.3	17	9	19	59.8	30	16	28.2	20	11.0	
26	203 3 4.9	196 56 10.6	18	9	52	56.3	31	17	1.2	30	16.5	
Dec. 6	202 31 18.6	328 42 0.9	19	10	25	52.7	32	17	34.1	40	22.0	
16	201 59 32.2	100 27 51.2	20	10	58	49.2	33	18	7.1	50	27.5	
26	201 27 45.9	232 13 41.5	21	11	31	45.6	34	18	40.0	60	32.9	
36	200 55 59.5	3 59 31.8	22	12	4	42.1						
			23	12	37	38.5						
			24	13	10	35.0						

Meridian und Polhöhe von Berlin.

Datum		SONNE		MOND		Datum		SONNE		MOND	
	Unterg.	Aufg.	Aufg.	Unterg.		Unterg.	Aufg.	Unterg.	Aufg.		Aufg.
	^h ₁₃ ^m	^h ₁₃ ^m	^h ₁₃ ^m	^h ₁₃ ^m		^h ₁₃ ^m	^h ₁₃ ^m	^h ₁₃ ^m	^h ₁₃ ^m		^h ₁₃ ^m
Jan. 1	3 53	20 13	12 49	23 33	Febr. 6	4 52	19 36	3 1	18 29		
2	3 55	20 13	13 54	23 57	7	4 54	19 34	4 8	18 58		
3	3 56	20 13	14 58	—	8	4 56	19 32	5 19	19 24		
			Unterg.	Aufg.	9	4 58	19 30	6 32	19 48		
7 4	3 57	20 13	0 24	16 0	10	5 0	19 28	7 47	20 12		
11 5	3 58	20 13	0 56	16 58	11	5 1	19 26	9 3	20 37		
16 6	3 59	20 12	1 34	17 52	12	5 3	19 24	10 20	21 4		
21 7	4 1	20 12	2 19	18 40	13	5 5	19 22	11 36	21 35		
26 8	4 2	20 11	3 11	19 22	14	5 7	19 20	12 51	22 12		
31 9	4 3	20 11	4 10	19 58	15	5 9	19 18	14 3	22 57		
1 10	4 5	20 10	5 15	20 29	16	5 11	19 16	15 8	23 51		
6 11	4 6	20 9	6 23	20 56	17	5 13	19 14	16 5	—		
11 12	4 8	20 9	7 34	21 20				Aufg.	Unterg.		
16 13	4 9	20 8	8 46	21 43	18	5 15	19 12	0 54	16 52		
21 14	4 11	20 7	9 59	22 6	19	5 17	19 10	2 4	17 31		
26 15	4 12	20 6	11 14	22 31	20	5 19	19 8	3 18	18 3		
31 16	4 14	20 5	12 30	22 58	21	5 21	19 6	4 33	18 30		
1 17	4 15	20 4	13 47	23 31	22	5 22	19 4	5 47	18 55		
6 18	4 17	20 3	15 2	—	23	5 24	19 2	7 0	19 18		
			Aufg.	Unterg.	24	5 26	19 0	8 11	19 40		
11 19	4 19	20 2	0 11	16 14	25	5 28	18 57	9 20	20 3		
16 20	4 20	20 1	1 0	17 19	26	5 30	18 55	10 27	20 29		
21 21	4 22	20 0	2 0	18 13	27	5 32	18 53	11 32	20 58		
26 22	4 24	19 58	3 8	18 58	28	5 33	18 51	12 33	21 31		
1 23	4 26	19 57	4 23	19 34	März 1	5 35	18 49	13 30	22 10		
6 24	4 28	19 56	5 40	20 4	2	5 37	18 46	14 23	22 55		
11 25	4 29	19 55	6 56	20 30	3	5 39	18 44	15 10	23 47		
16 26	4 31	19 53	8 10	20 53	4	5 41	18 42	15 51	—		
21 27	4 33	19 52	9 22	21 15				Unterg.	Aufg.		
26 28	4 35	19 50	10 31	21 37	5	5 43	18 40	0 46	16 26		
31 29	4 37	19 49	11 38	22 1	6	5 45	18 37	1 51	16 57		
1 30	4 39	19 47	12 44	22 27	7	5 47	18 35	3 0	17 25		
6 31	4 41	19 46	13 47	22 57	8	5 48	18 33	4 12	17 50		
11 Febr. 1	4 42	19 44	14 46	23 32	9	5 50	18 30	5 27	18 15		
16 2	4 44	19 42	15 42	—	10	5 52	18 28	6 44	18 40		
			Unterg.	Aufg.	11	5 54	18 26	8 2	19 7		
21 3	4 46	19 41	0 13	16 33	12	5 56	18 23	9 21	19 38		
26 4	4 48	19 39	1 2	17 17	13	5 57	18 21	10 39	20 14		
31 5	4 50	19 37	1 58	17 56	14	5 59	18 19	11 53	20 57		
					15	6 1	18 17	13 1	21 48		

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Datum		SONNE		MOND		Datum		SONNE		MOND	
	Unterg.	Aufg.	Unterg.	Aufg.		Unterg.	Aufg.	Aufg.	Unterg.		
	^h ^m	^h ^m	^h ^m	^h ^m		^h ^m	^h ^m	^h ^m	^h ^m		
März 16	6 ^h 3 ^m	18 ^h 14 ^m	14 ^h 0 ^m	22 ^h 48 ^m	April 20	7 ^h 4 ^m	16 ^h 53 ^m	4 ^h 51 ^m	16 ^h 10 ^m		
17	6 5	18 12	14 50	23 55	21	7 5	16 51	5 59	16 34		
18	6 6	18 10	15 31	—	22	7 7	16 49	7 5	17 0		
			Aufg.	Unterg.	23	7 9	16 47	8 9	17 30		
19	6 8	18 7	1 6	16 4	24	7 11	16 45	9 10	18 5		
20	6 10	18 5	2 18	16 32	25	7 12	16 43	10 6	18 45		
21	6 12	18 2	3 31	16 57	26	7 14	16 41	10 57	19 31		
22	6 13	18 0	4 43	17 20	27	7 16	16 39	11 42	20 24		
23	6 15	17 58	5 54	17 43	28	7 18	16 37	12 21	21 22		
24	6 17	17 55	7 3	18 6	29	7 19	16 35	12 55	22 25		
25	6 18	17 53	8 11	18 31	30	7 21	16 33	13 24	23 31		
26	6 20	17 50	9 17	18 59	Mai 1	7 23	16 31	13 50	—		
27	6 22	17 48	10 20	19 30				Unterg.	Aufg.		
28	6 24	17 46	11 19	20 6	2	7 24	16 29	0 40	14 15		
29	6 25	17 43	12 13	20 49	3	7 26	16 27	1 53	14 39		
30	6 27	17 41	13 2	21 38	4	7 28	16 25	3 9	15 4		
31	6 29	17 39	13 45	22 33	5	7 29	16 23	4 27	15 32		
April 1	6 31	17 36	14 22	23 34	6	7 31	16 21	5 47	16 4		
2	6 32	17 34	14 55	—	7	7 33	16 19	7 8	16 42		
			Unterg.	Aufg.	8	7 34	16 18	8 26	17 29		
3	6 34	17 32	0 40	15 23	9	7 36	16 16	9 37	18 26		
4	6 36	17 29	1 50	15 49	10	7 38	16 14	10 38	19 32		
5	6 38	17 27	3 2	16 14	11	7 39	16 12	11 27	20 44		
6	6 39	17 25	4 18	16 40	12	7 41	16 11	12 7	21 58		
7	6 41	17 22	5 36	17 6	13	7 42	16 9	12 39	23 12		
8	6 43	17 20	6 56	17 36	14	7 44	16 8	13 7	—		
9	6 44	17 18	8 17	18 11				Aufg.	Unterg.		
10	6 46	17 16	9 35	18 52	15	7 46	16 6	0 24	13 31		
11	6 48	17 13	10 48	19 42	16	7 47	16 5	1 34	13 54		
12	6 50	17 11	11 53	20 41	17	7 49	16 3	2 43	14 16		
13	6 51	17 9	12 47	21 47	18	7 50	16 2	3 50	14 39		
14	6 53	17 7	13 31	22 57	19	7 52	16 0	4 56	15 4		
15	6 55	17 4	14 6	—	20	7 53	15 59	6 0	15 32		
			Aufg.	Unterg.	21	7 55	15 57	7 2	16 5		
16	6 57	17 2	0 9	14 36	22	7 56	15 56	8 0	16 43		
17	6 58	17 0	1 22	15 2	23	7 58	15 55	8 53	17 27		
18	7 0	16 58	2 33	15 25	24	7 59	15 54	9 40	18 18		
19	7 2	16 56	3 43	15 47	25	8 0	15 52	10 21	19 14		
					26	8 2	15 51	10 56	20 15		

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Datum		SONNE		MOND		Datum		SONNE		MOND	
		Unterg.	Aufg.	Aufg.	Unterg.			Unterg.	Aufg.	Unterg.	Aufg.
		^h ^m	^h ^m	^h ^m	^h ^m			^h ^m	^h ^m	^h ^m	^h ^m
Mai	27	8 ^h 3 ^m	15 ^h 50 ^m	11 ^h 26 ^m	21 ^h 19 ^m	Juli	1	8 ^h 24 ^m	15 ^h 43 ^m	3 ^h 32 ^m	13 ^h 7 ^m
	28	8 4	15 49	11 53	22 26		2	8 23	15 44	4 47	13 52
	29	8 6	15 48	12 18	23 35		3	8 23	15 45	5 59	14 48
	30	8 7	15 47	12 41	—		4	8 23	15 46	7 1	15 54
							5	8 22	15 46	7 53	17 9
				Unterg.	Aufg.	6	8 22	15 47	8 35	18 27	
Juni	31	8 8	15 46	0 47	13 5	7	8 21	15 48	9 9	19 45	
	1	8 9	15 45	2 2	13 31	8	8 21	15 49	9 38	21 2	
	2	8 10	15 45	3 19	13 59	9	8 20	15 50	10 3	22 16	
	3	8 12	15 44	4 38	14 33	10	8 19	15 51	10 27	23 27	
	4	8 13	15 43	5 57	15 15	11	8 18	15 52	10 50	—	
	5	8 14	15 42	7 13	16 7					Aufg.	Unterg.
	6	8 15	15 42	8 21	17 9					0 35	11 14
	7	8 15	15 41	9 17	18 20	12	8 17	15 53	1 41	11 40	
	8	8 16	15 41	10 3	19 36	13	8 17	15 55	2 45	12 9	
	9	8 17	15 40	10 40	20 53	14	8 16	15 56	3 46	12 43	
	10	8 18	15 40	11 10	22 9	15	8 15	15 57	4 42	13 23	
	11	8 19	15 39	11 36	23 22	16	8 14	15 58	5 34	14 9	
	12	8 20	15 39	11 59	—	17	8 13	16 0	6 20	15 1	
					Aufg.	Unterg.	18	8 11	16 1	7 0	15 59
	13	8 20	15 39	0 33	12 22	19	8 10	16 2	7 34	17 1	
	14	8 21	15 39	1 41	12 45	20	8 9	16 4	8 4	18 7	
	15	8 21	15 39	2 47	13 9	21	8 8	16 5	8 30	19 15	
	16	8 22	15 39	3 52	13 36	22	8 6	16 6	8 54	20 25	
	17	8 22	15 39	4 55	14 7	23	8 5	16 8	9 17	21 36	
	18	8 23	15 39	5 54	14 42	24	8 4	16 9	9 41	22 48	
19	8 23	15 39	6 49	15 24	25	8 2	16 11	10 6	—		
20	8 24	15 39	7 39	16 13	26	8 1	16 12	—	—		
21	8 24	15 39	8 22	17 8					Unterg.	Aufg.	
22	8 24	15 39	8 59	18 7	27	7 59	16 14	0 1	10 33		
23	8 24	15 39	9 31	19 10	28	7 58	16 15	1 16	11 6		
24	8 24	15 40	9 59	20 16	29	7 56	16 17	2 30	11 46		
25	8 24	15 40	10 24	21 24	30	7 55	16 18	3 40	12 35		
26	8 24	15 40	10 47	22 34	31	7 53	16 20	4 45	13 35		
27	8 24	15 41	11 10	23 45	Aug. 1	7 51	16 21	5 41	14 44		
28	8 24	15 41	11 34	—	2	7 50	16 23	6 27	15 59		
				Unterg.	Aufg.	3	7 48	16 24	7 5	17 17	
29	8 24	15 42	0 59	12 0	4	7 46	16 26	7 37	18 36		
30	8 24	15 43	2 15	12 30	5	7 45	16 28	8 5	19 53		
					6	7 43	16 29	8 30	21 6		

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Datum		SONNE		MOND		Datum		SONNE		MOND	
		Unterg.	Aufg.	Unterg.	Aufg.			Unterg.	Aufg.	Aufg.	Unterg.
		^h ^m	^h ^m	^h ^m	^h ^m			^h ^m	^h ^m	^h ^m	^h ^m
Aug.	7	7 41	16 31	8 54	22 17	Sept.	12	6 23	17 31	3 31	12 39
	8	7 39	16 32	9 18	23 26		13	6 21	17 32	4 5	13 42
	9	7 37	16 34	9 44	—		14	6 18	17 34	4 34	14 48
							15	6 16	17 36	5 1	15 57
	10	7 35	16 36	0 32	10 12		16	6 13	17 37	5 26	17 8
	11	7 33	16 37	1 35	10 44		17	6 11	17 39	5 50	18 22
	12	7 31	16 39	2 33	11 22		18	6 9	17 41	6 15	19 37
	13	7 29	16 41	3 27	12 5		19	6 6	17 42	6 43	20 52
	14	7 27	16 42	4 15	12 54		20	6 4	17 44	7 13	22 7
	15	7 25	16 44	4 57	13 50		21	6 1	17 46	7 48	23 20
16	7 23	16 46	5 34	14 51	22	5 59	17 47	8 31	—		
17	7 21	16 47	6 6	15 56					Unterg.	Aufg.	
18	7 19	16 49	6 34	17 4	23	5 57	17 49	0 27	9 22		
19	7 17	16 51	6 59	18 14	24	5 54	17 51	1 27	10 22		
20	7 15	16 52	7 23	19 25	25	5 52	17 53	2 18	11 29		
21	7 13	16 54	7 47	20 37	26	5 50	17 54	3 0	12 41		
22	7 11	16 56	8 12	21 51	27	5 47	17 56	3 35	13 55		
23	7 9	16 57	8 39	23 5	28	5 45	17 58	4 5	15 10		
24	7 6	16 59	9 10	—	29	5 43	17 59	4 32	16 24		
					30	5 40	18 1	4 57	17 37		
			Unterg.	Aufg.	Oct.	1	5 38	18 3	5 21	18 48	
25	7 4	17 1	0 18	9 47		2	5 36	18 4	5 46	19 57	
26	7 2	17 2	1 29	10 32		3	5 33	18 6	6 13	21 4	
27	7 0	17 4	2 34	11 26		4	5 31	18 8	6 43	22 7	
28	6 58	17 6	3 32	12 29		5	5 29	18 9	7 17	23 6	
29	6 55	17 7	4 21	13 40		6	5 26	18 11	7 56	23 59	
30	6 53	17 9	5 1	14 55		7	5 24	18 13	8 41	—	
31	6 51	17 11	5 35	16 12						Aufg.	Unterg.
Sept.	1	6 49	17 12	6 4		17 28	8	5 22	18 15	0 46	9 31
	2	6 46	17 14	6 30		18 43	9	5 19	18 16	1 27	10 26
	3	6 44	17 16	6 55	19 56	10	5 17	18 18	2 2	11 26	
	4	6 42	17 17	7 20	21 7	11	5 15	18 20	2 33	12 30	
	5	6 39	17 19	7 45	22 15	12	5 12	18 22	3 1	13 37	
	6	6 37	17 21	8 13	23 20	13	5 10	18 24	3 26	14 47	
	7	6 35	17 22	8 44	—	14	5 8	18 25	3 51	15 59	
						15	5 6	18 27	4 16	17 14	
	8	6 32	17 24	0 21	9 19	16	5 3	18 29	4 42	18 31	
	9	6 30	17 26	1 17	10 0	17	5 1	18 31	5 12	19 49	
	10	6 28	17 27	2 7	10 47	18	4 59	18 33	5 46	21 5	
11	6 25	17 29	2 52	11 40	19	4 57	18 34	6 27	22 17		

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Datum		SONNE		MOND		Datum		SONNE		MOND		
		Unterg.	Aufg.	Aufg.	Unterg.			Unterg.	Aufg.	Unterg.	Aufg.	
		^h ^m	^h ^m	^h ^m	^h ^m			^h ^m	^h ^m	^h ^m	^h ^m	
Oct.	20	4 55	18 36	7 17	23 21	Nov.	25	3 54	19 42	1 54	15 33	
	21	4 53	18 38	8 15	—		26	3 53	19 43	2 19	16 40	
				Unterg.	Aufg.		27	3 52	19 45	2 46	17 45	
	22	4 51	18 40	0 15	9 21		28	3 51	19 46	3 16	18 47	
	23	4 48	18 42	1 0	10 32		29	3 50	19 48	3 50	19 44	
	24	4 46	18 43	1 37	11 45		30	3 49	19 49	4 30	20 36	
	25	4 44	18 45	2 8	12 59		Dec.	1	3 48	19 51	5 16	21 22
	26	4 42	18 47	2 36	14 12			2	3 48	19 52	6 8	22 1
	27	4 40	18 49	3 1	15 24			3	3 47	19 53	7 4	22 35
	28	4 38	18 51	3 25	16 34			4	3 46	19 55	8 4	23 5
29	4 36	18 53	3 49	17 43	5	3 46		19 56	9 7	23 31		
30	4 34	18 55	4 15	18 50	6	3 45		19 57	10 12	23 55		
31	4 32	18 56	4 43	19 55	7	3 45		19 59	11 18	—		
Nov.	1	4 30	18 58	5 15	20 56					Aufg.	Unterg.	
	2	4 28	19 0	5 52	21 51	8		3 44	20 0	0 18	12 27	
	3	4 26	19 2	6 34	22 40	9		3 44	20 1	0 42	13 38	
	4	4 25	19 4	7 22	23 23	10	3 44	20 2	1 7	14 52		
	5	4 23	19 6	8 16	—	11	3 44	20 3	1 35	16 9		
				Aufg.	Unterg.	12	3 44	20 4	2 9	17 26		
	6	4 21	19 8	0 1	9 14	13	3 44	20 5	2 50	18 40		
	7	4 19	19 10	0 33	10 15	14	3 44	20 6	3 41	19 48		
	8	4 17	19 11	1 1	11 20	15	3 44	20 7	4 43	20 46		
	9	4 16	19 13	1 27	12 27	16	3 44	20 8	5 54	21 33		
	10	4 14	19 15	1 51	13 36	17	3 44	20 9	7 11	22 12		
	11	4 12	19 17	2 15	14 48	18	3 44	20 9	8 30	22 44		
	12	4 11	19 19	2 40	16 3	19	3 44	20 10	9 47	23 11		
	13	4 9	19 20	3 8	17 21	20	3 45	20 11	11 2	23 36		
14	4 8	19 22	3 40	18 39	21	3 45	20 11	12 14	—			
15	4 6	19 24	4 18	19 55				Unterg.	Aufg.			
16	4 5	19 26	5 4	21 6	22	3 45	20 12	0 0	13 24			
17	4 3	19 28	6 1	22 7	23	3 46	20 12	0 28	14 32			
18	4 2	19 29	7 7	22 57	24	3 47	20 12	0 51	15 37			
19	4 1	19 31	8 19	23 38	25	3 47	20 13	1 19	16 40			
20	3 59	19 33	9 34	—	26	3 48	20 13	1 52	17 39			
			Unterg.	Aufg.	27	3 49	20 13	2 30	18 32			
21	3 58	19 35	0 12	10 49	28	3 49	20 13	3 13	19 20			
22	3 57	19 36	0 41	12 3	29	3 50	20 14	4 2	20 2			
23	3 56	19 38	1 6	13 15	30	3 51	20 14	4 57	20 38			
24	3 55	19 40	1 30	14 25	31	3 52	20 14	5 56	21 9			

Wahrer geocentrischer Ort.

	O^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Gestl. Stunden- Winkel	Halber Tag- bogen
Jan.	0	18 ^h 35 ^m 34.22		-24° 52' 44.6"		0.158617	23 ^h 59 ^m	3 36 ^m
	I	18 42 38.81	+7 4.59	24 50 7.7	+ 2 36.9	0.158066	0 2	3 37
	2	18 49 44.45	7 5.64	24 46 3.0	4 4.7	0.157338	0 5	3 37
	3	18 56 51.01	7 6.56	24 40 29.4	5 33.6	0.156430	0 8	3 38
	4	19 3 58.36	7 7.35	24 33 25.8	7 3.6	0.155336	0 II	3 39
			+7 7.99		+ 8 34.3			
	5	19 II 6.35	7 8.48	-24 24 51.5	10 6.0	0.154053	0 15	3 40
	6	19 18 14.83	7 8.81	24 14 45.5	II 38.4	0.152574	0 18	3 41
	7	19 25 23.64	7 8.95	24 3 7.1	13 11.5	0.150892	0 21	3 43
	8	19 32 32.59	7 8.92	23 49 55.6	14 45.1	0.149002	0 24	3 44
	9	19 39 41.51	+7 8.67	23 35 10.5	+16 19.4	0.146894	0 27	3 46
	10	19 46 50.18	7 8.20	-23 18 51.1	17 53.9	0.144559	0 31	3 48
	11	19 53 58.38	7 7.48	23 0 57.2	19 28.6	0.141987	0 34	3 50
	12	20 I 5.86	7 6.51	22 41 28.6	21 3.3	0.139169	0 37	3 53
	13	20 8 12.37	7 5.23	22 20 25.3	22 37.8	0.136090	0 40	3 55
	14	20 15 17.60	+7 3.63	21 57 47.5	+24 11.8	0.132739	0 43	3 58
	15	20 22 21.23	7 1.65	-21 33 35.7	25 45.1	0.129100	0 46	4 I
	16	20 29 22.88	6 59.28	21 7 50.6	27 17.3	0.125159	0 49	4 4
	17	20 36 22.16	6 56.43	20 40 33.3	28 47.9	0.120898	0 53	4 7
	18	20 43 18.59	6 53.05	20 II 45.4	30 16.5	0.116299	0 56	4 10
	19	20 50 11.64	+6 49.09	19 41 28.9	+31 42.4	0.111342	0 59	4 13
	20	20 57 0.73	6 44.44	-19 9 46.5	33 5.1	0.106008	I I	4 17
	21	21 3 45.17	6 39.03	18 36 41.4	34 23.6	0.100274	I 4	4 20
	22	21 10 24.20	6 32.72	18 2 17.8	35 37.1	0.094117	I 7	4 24
	23	21 16 56.92	6 25.42	17 26 40.7	36 44.5	0.087516	I 10	4 27
	24	21 23 22.34	+6 16.97	16 49 56.2	+37 44.6	0.080446	I 12	4 31
	25	21 29 39.31	6 7.24	-16 12 11.6	38 35.7	0.072884	I 14	4 35
	26	21 35 46.55	5 56.02	15 33 35.9	39 16.6	0.064807	I 17	4 39
	27	21 41 42.57	5 43.18	14 54 19.3	39 45.6	0.056197	I 19	4 43
	28	21 47 25.75	5 28.50	14 14 33.7	40 0.5	0.047035	I 20	4 47
	29	21 52 54.25	+5 11.81	13 34 33.2	+39 59.4	0.037309	I 22	4 51
	30	21 58 6.06	4 52.93	-12 54 33.8	39 40.6	0.027012	I 23	4 54
	31	22 2 58.99	4 31.67	12 14 53.2	39 1.6	0.016144	I 24	4 58
Febr.	I	22 7 30.66	4 7.93	II 35 51.6	38 0.6	0.004717	I 25	5 2
	2	22 11 38.59	3 41.59	10 57 51.0	36 35.9	9.992753	I 25	5 5
	3	22 15 20.18	+3 12.63	10 21 15.1	+34 46.0	9.980289	I 25	5 9
	4	22 18 32.81	2 41.14	- 9 46 29.1	32 30.0	9.967378	I 24	5 12
	5	22 21 13.95	2 7.21	9 13 59.1	29 47.5	9.954090	I 23	5 15
	6	22 23 21.16	1 31.14	8 44 11.6	26 38.5	9.940516	I 21	5 18
	7	22 24 52.30	0 53.33	8 17 33.1	23 4.6	9.926766	I 18	5 20
	8	22 25 45.63		7 54 28.5		9.912972	I 15	5 22

Wahrer geocentrischer Ort.¹

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Febr. 7	22 24 ^h 52.30 ^{m s}		— 8° 17' 33".1		9.926766	^h 18 ^m	^h 20 ^m
8	22 25 45.63	+0 53.33	7 54 28.5	+23 4.6	9.912972	I 15	5 22
9	22 25 59.92	+0 14.29	7 35 20.8	19 7.7	9.899282	I 12	5 24
10	22 25 34.64	—0 25.28	7 20 29.6	14 51.2	9.885862	I 7	5 25
11	22 24 30.06	I 4.58	7 10 10.3	10 19.3	9.872894	I 2	5 26
12	22 22 47.37	—1 42.69	— 7 4 32.6	+ 5 37.7	9.860562	o 57	5 26
13	22 20 28.79	2 18.58	7 3 40.0	+ o 52.6	9.849056	o 50	5 27
14	22 17 37.56	2 51.23	7 7 28.5	— 3 48.5	9.838557	o 43	5 26
15	22 14 17.94	3 19.62	7 15 46.7	8 18.2	9.829232	o 36	5 25
16	22 10 35.06	3 42.88	7 28 15.4	12 28.7	9.821222	o 29	5 24
17	22 6 34.83	—4 0.23	— 7 44 28.4	—16 13.0	9.814640	o 21	5 23
18	22 2 23.56	4 11.27	8 3 53.8	19 25.4	9.809556	o 12	5 21
19	21 58 7.81	4 15.75	8 25 55.4	22 1.6	9.806004	o 4	5 19
20	21 53 54.02	4 13.79	8 49 54.5	23 59.1	9.803974	23 56	5 17
21	21 49 48.21	4 5.81	9 15 12.3	25 17.8	9.803417	23 48	5 15
22	21 45 55.80	—3 52.41	— 9 41 11.3	—25 59.0	9.804253	23 40	5 12
23	21 42 21.42	3 34.38	10 7 17.0	26 5.7	9.806372	23 33	5 10
24	21 39 8.81	3 12.61	10 32 58.8	25 41.8	9.809648	23 26	5 8
25	21 36 20.79	2 48.02	10 57 50.9	24 52.1	9.813946	23 19	5 5
26	21 33 59.32	2 21.47	11 21 31.8	23 40.9	9.819124	23 13	5 3
27	21 32 5.56	—1 53.76	—11 43 44.7	—22 12.9	9.825044	23 7	5 1
28	21 30 39.99	I 25.57	12 4 17.0	20 32.3	9.831578	23 1	4 59
März 1	21 29 42.54	o 57.45	12 22 59.4	18 42.4	9.838604	22 56	4 57
2	21 29 12.65	o 29.89	12 39 45.8	16 46.4	9.846013	22 52	4 56
3	21 29 9.45	—o 3.20	12 54 32.3	14 46.5	9.853711	22 48	4 54
4	21 29 31.83	+o 22.38	—13 7 17.1	—12 44.8	9.861613	22 44	4 53
5	21 30 18.50	o 46.67	13 17 59.6	10 42.5	9.869649	22 41	4 52
6	21 31 28.12	I 9.62	13 26 40.5	8 40.9	9.877758	22 38	4 51
7	21 32 59.27	I 31.15	13 33 20.9	6 40.4	9.885890	22 36	4 51
8	21 34 50.53	I 51.26	13 38 2.7	4 41.8	9.894004	22 34	4 51
9	21 37 0.52	+2 9.99	—13 40 48.2	— 2 45.5	9.902065	22 32	4 50
10	21 39 27.91	2 27.39	13 41 39.6	— o 51.4	9.910048	22 31	4 50
11	21 42 11.44	2 43.53	13 40 39.6	+ I 0.0	9.917931	22 29	4 50
12	21 45 9.91	2 58.47	13 37 50.5	2 49.1	9.925697	22 28	4 50
13	21 48 22.19	3 12.28	13 33 14.9	4 35.6	9.933333	22 28	4 51
14	21 51 47.25	+3 25.06	—13 26 55.3	+ 6 19.6	9.940832	22 27	4 51
15	21 55 24.13	3 36.88	13 18 53.9	8 1.4	9.948184	22 27	4 52
16	21 59 11.94	3 47.81	13 9 13.0	9 40.9	9.955388	22 27	4 53
17	22 3 9.87	3 57.93	12 57 54.7	11 18.3	9.962440	22 27	4 54
18	22 7 17.18	4 7.31	12 45 1.2	12 53.5	9.969339	22 27	4 55

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
März 17	22 ^h 3 ^m 9.87		-12° 57' 54.7		9.962440	22 ^h 27 ^m	4 ^h 54 ^m
18	22 7 17.18	+4 7.31	12 45 1.2	+12 53.5	9.969339	22 27	4 55
19	22 11 33.20	4 16.02	12 30 34.4	14 26.8	9.976085	22 27	4 57
20	22 15 57.34	4 24.14	12 14 36.1	15 58.3	9.982678	22 28	4 58
21	22 20 29.03	4 31.69	11 57 8.1	17 28.0	9.989120	22 28	5 0
22	22 25 7.76	+4 38.73	-11 38 12.2	+18 55.9	9.995414	22 29	5 2
23	22 29 53.10	4 45.34	11 17 50.0	20 22.2	0.001562	22 30	5 3
24	22 34 44.66	4 51.56	10 56 2.9	21 47.1	0.007566	22 31	5 5
25	22 39 42.08	4 57.42	10 32 52.5	23 10.4	0.013428	22 32	5 8
26	22 44 45.05	5 2.97	10 8 20.2	24 32.3	0.019151	22 33	5 10
27	22 49 53.29	+5 8.24	- 9 42 27.5	+25 52.7	0.024738	22 34	5 12
28	22 55 6.58	5 13.29	9 15 15.5	27 12.0	0.030191	22 35	5 15
29	23 0 24.71	5 18.13	8 46 45.8	28 29.7	0.035512	22 37	5 17
30	23 5 47.51	5 22.80	8 16 59.5	29 46.3	0.040703	22 38	5 20
31	23 11 14.85	5 27.34	7 45 57.8	31 1.7	0.045766	22 40	5 23
April 1	23 16 46.62	+5 31.77	- 7 13 42.0	+32 15.8	0.050702	22 41	5 26
2	23 22 22.74	5 36.12	6 40 13.3	33 28.7	0.055513	22 43	5 29
3	23 28 3.17	5 40.43	6 5 32.8	34 40.5	0.060198	22 45	5 32
4	23 33 47.87	5 44.70	5 29 41.8	35 51.0	0.064759	22 46	5 35
5	23 39 36.84	5 48.97	4 52 41.5	37 0.3	0.069194	22 48	5 38
6	23 45 30.11	+5 53.27	- 4 14 33.1	+38 8.4	0.073503	22 50	5 42
7	23 51 27.72	5 57.61	3 35 17.9	39 15.2	0.077684	22 52	5 45
8	23 57 29.75	6 2.03	2 54 57.1	40 20.8	0.081734	22 54	5 48
9	0 3 36.28	6 6.53	2 13 32.2	41 24.9	0.085651	22 56	5 52
10	0 9 47.42	6 11.14	1 31 4.6	42 27.6	0.089431	22 59	5 56
11	0 16 3.30	+6 15.88	- 0 47 35.8	+43 28.8	0.093070	23 1	6 0
12	0 22 24.07	6 20.77	- 0 3 7.6	44 28.2	0.096561	23 3	6 3
13	0 28 49.90	6 25.83	+ 0 42 18.2	45 25.8	0.099899	23 6	6 7
14	0 35 20.95	6 31.05	1 28 39.7	46 21.5	0.103076	23 9	6 11
15	0 41 57.44	6 36.49	2 15 54.5	47 14.8	0.106082	23 11	6 15
16	0 48 39.56	+6 42.12	+ 3 4 0.3	+48 5.8	0.108909	23 14	6 20
17	0 55 27.52	6 47.96	3 52 54.1	48 53.8	0.111544	23 17	6 24
18	1 2 21.53	6 54.01	4 42 32.8	49 38.7	0.113974	23 20	6 28
19	1 9 21.81	7 0.28	5 32 52.8	50 20.0	0.116186	23 23	6 33
20	1 16 28.54	7 6.73	6 23 49.8	50 57.0	0.118163	23 26	6 37
21	1 23 41.91	+7 13.37	+ 7 15 19.4	+51 29.6	0.119888	23 29	6 42
22	1 31 2.08	7 20.17	8 7 16.0	51 56.6	0.121343	23 33	6 46
23	1 38 29.16	7 27.08	8 59 33.8	52 17.8	0.122507	23 36	6 51
24	1 46 3.22	7 34.06	9 52 5.8	52 32.0	0.123359	23 40	6 56
25	1 53 44.26	7 41.04	10 44 44.6	52 38.8	0.123877	23 44	7 1

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
April 24	1 ^h 46 ^m 3.22		+ 9 52 5.8		0.123359	23 ^h 40 ^m	6 ^h 56 ^m
25	1 53 44.26	+7 41.04	10 44 44.6	+52 38.8	0.123877	23 44	7 1
26	2 1 32.22	7 47.96	11 37 21.5	52 36.9	0.124038	23 47	7 6
27	2 9 26.94	7 54.72	12 29 47.3	52 25.8	0.123819	23 51	7 11
28	2 17 28.15	8 1.21	13 21 51.8	52 4.5	0.123197	23 55	7 16
29	2 25 35.50	+8 7.35	+14 13 24.0	+51 32.2	0.122150	0 0	7 21
30	2 33 48.47	8 12.97	15 4 12.3	50 48.3	0.120658	0 4	7 26
Mai 1	2 42 6.43	8 17.96	15 54 4.4	49 52.1	0.118704	0 8	7 31
2	2 50 28.65	8 22.22	16 42 47.9	48 43.5	0.116272	0 13	7 36
3	2 58 54.22	8 25.57	17 30 10.3	47 22.4	0.113351	0 17	7 41
4	3 7 22.15	+8 27.93	+18 15 59.2	+45 48.9	0.109935	0 22	7 46
5	3 15 51.33	8 29.18	19 0 2.9	44 3.7	0.106023	0 26	7 51
6	3 24 20.60	8 29.27	19 42 10.5	42 7.6	0.101616	0 31	7 56
7	3 32 48.74	8 28.14	20 22 12.1	40 1.6	0.096722	0 35	8 0
8	3 41 14.50	8 25.76	20 59 59.2	37 47.1	0.091355	0 40	8 5
9	3 49 36.61	+8 22.11	+21 35 25.0	+35 25.8	0.085529	0 44	8 9
10	3 57 53.85	8 17.24	22 8 23.8	32 58.8	0.079266	0 49	8 13
11	4 6 5.04	8 11.19	22 38 52.0	30 28.2	0.072587	0 53	8 16
12	4 14 9.07	8 4.03	23 6 47.0	27 55.0	0.065517	0 57	8 20
13	4 22 4.89	7 55.82	23 32 8.4	25 21.4	0.058083	1 1	8 23
14	4 29 51.52	+7 46.63	+23 54 56.4	+22 48.0	0.050311	1 5	8 26
15	4 37 28.09	7 36.57	24 15 12.7	20 16.3	0.042227	1 9	8 29
16	4 44 53.77	7 25.68	24 33 0.0	17 47.3	0.033859	1 12	8 31
17	4 52 7.83	7 14.06	24 48 22.0	15 22.0	0.025232	1 15	8 33
18	4 59 9.60	7 1.77	25 1 22.6	13 0.6	0.016370	1 18	8 35
19	5 5 58.46	+6 48.86	+25 12 6.7	+10 44.1	0.007298	1 21	8 37
20	5 12 33.84	6 35.38	25 20 39.4	8 32.7	9.998037	1 24	8 38
21	5 18 55.22	6 21.38	25 27 6.1	6 26.7	9.988610	1 26	8 39
22	5 25 2.11	6 6.89	25 31 32.5	4 26.4	9.979037	1 28	8 39
23	5 30 54.06	5 51.95	25 34 4.3	2 31.8	9.969338	1 30	8 40
24	5 36 30.63	+5 36.57	+25 34 47.3	+0 43.0	9.959533	1 32	8 40
25	5 41 51.39	5 20.76	25 33 47.2	- 1 0.1	9.949640	1 33	8 40
26	5 46 55.93	5 4.54	25 31 10.1	2 37.1	9.939678	1 35	8 39
27	5 51 43.86	4 47.93	25 27 1.6	4 8.5	9.929665	1 35	8 39
28	5 56 14.79	4 30.93	25 21 27.3	5 34.3	9.919622	1 36	8 38
29	6 0 28.33	+4 13.54	+25 14 33.0	- 6 54.3	9.909567	1 36	8 37
30	6 4 24.09	3 55.76	25 6 24.2	8 8.8	9.899521	1 36	8 36
31	6 8 1.70	3 37.61	24 57 6.3	9 17.9	9.889505	1 36	8 35
Juni 1	6 11 20.82	3 19.12	24 46 44.7	10 21.6	9.879543	1 35	8 33
2	6 14 21.06	3 0.24	24 35 24.7	11 20.0	9.869658	1 34	8 32

Wahrer geocentrischer Ort.

$^{\circ}$ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Juni	1	6 ^h 11 ^m 20.82		+24 ^o 46' 44.7		9.879543	l ^h 35 ^m 8 ^s 33
	2	6 14 21.06	+3 ^m 0.24	24 35 24.7	-11 20.0	9.869658	1 34 8 32
	3	6 17 21.13	2 41.07	24 23 11.4	12 13.3	9.859876	1 33 8 30
	4	6 19 23.70	2 21.57	24 10 10.0	13 1.4	9.850227	1 32 8 28
	5	6 21 25.51	2 1.81	23 56 25.6	13 44.4	9.840740	1 30 8 26
	6	6 23 7.34	+1 41.83		-14 22.3		
	7	6 24 29.01	1 21.67	+23 42 3.3	14 55.3	9.831449	1 27 8 25
	8	6 25 30.45	1 1.44	23 27 8.0	15 23.2	9.822390	1 25 8 23
	9	6 26 11.67	0 41.22	23 11 44.8	15 46.0	9.813601	1 22 8 21
	10	6 26 32.79	0 21.12	22 55 58.8	16 3.7	9.805124	1 19 8 19
	11	6 26 34.05	+0 1.26	22 39 55.1	-16 16.3	9.797002	1 15 8 17
	12	6 26 15.87	-0 18.18	+22 23 38.8	16 23.6	9.789282	1 11 8 15
	13	6 25 38.84	0 37.03	22 7 15.2	16 25.4	9.782014	1 7 8 13
	14	6 24 43.72	0 55.12	21 50 49.8	16 21.6	9.775246	1 2 8 11
	15	6 23 31.49	1 12.23	21 34 28.2	16 12.2	9.769031	0 57 8 9
	16	6 22 3.36	-1 28.13	21 18 16.0	-15 56.8	9.763420	0 52 8 7
	17	6 20 20.75	1 42.61	+21 2 19.2	15 35.1	9.758463	0 47 8 5
	18	6 18 25.29	1 55.46	20 46 44.1	15 7.0	9.754208	0 41 8 3
	19	6 16 18.83	2 6.46	20 31 37.1	15 32.4	9.750701	0 35 8 1
	20	6 14 3.41	2 15.42	20 17 4.7	14 51.3	9.747983	0 29 8 0
	21	6 11 41.23	-2 22.18	20 3 13.4	-13 3.5	9.746089	0 23 7 58
	22	6 9 14.64	2 26.59	+19 50 9.9	12 9.1	9.745047	0 17 7 57
	23	6 6 46.06	2 28.58	19 38 0.8	11 8.4	9.744878	0 10 7 55
	24	6 4 17.96	2 28.10	19 26 52.4	10 1.5	9.745594	0 4 7 54
	25	6 1 52.82	2 25.14	19 16 50.9	8 49.3	9.747198	23 58 7 53
	26	5 59 33.06	-2 19.76	19 8 1.6	-7 32.1	9.749686	23 51 7 52
	27	5 57 21.00	2 12.06	+19 0 29.5	6 10.7	9.753041	23 45 7 51
	28	5 55 18.86	2 2.14	18 54 18.8	4 45.9	9.757240	23 39 7 50
	29	5 53 28.67	1 50.19	18 49 32.9	3 18.8	9.762254	23 33 7 50
	30	5 51 52.28	1 36.39	18 46 14.1	1 50.4	9.768044	23 27 7 50
Juli	1	5 50 31.34	-1 20.94	18 44 23.7	0 21.5	9.774566	23 22 7 49
	2	5 49 27.31	1 4.03	+18 44 2.2	+1 6.7	9.781773	23 16 7 49
	3	5 48 41.42	0 45.89	18 45 8.9	2 32.9	9.789615	23 11 7 49
	4	5 48 14.71	0 26.71	18 47 41.8	3 56.5	9.798037	23 7 7 50
	5	5 48 8.05	-0 6.66	18 51 38.3	5 16.4	9.806987	23 2 7 50
	6	5 48 22.14	+0 14.09	18 56 54.7	+6 31.9	9.816410	22 58 7 51
	7	5 48 57.49	0 35.35	+19 3 26.6	7 42.1	9.826253	22 54 7 51
	8	5 49 54.53	0 57.04	19 11 8.7	8 46.3	9.836464	22 51 7 52
	9	5 51 13.56	1 19.03	19 19 55.0	9 43.8	9.846993	22 48 7 53
	10	5 52 54.80	1 41.24	19 29 38.8	10 34.1	9.857791	22 45 7 54
			19 40 12.9		9.868812	22 43 7 56	

Wahrer geocentrischer Ort.

^o Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Juli 9	5 ^h 51 ^m 13.56		+19° 29' 38.8"		9.85779I	22 45 ^h 5 ^m	7 54 ^m
10	5 52 54.80	+1 41.24	19 40 12.9	+10 34.1	9.868812	22 43	7 56
11	5 54 58.36	2 3.56	19 51 29.6	11 16.7	9.880012	22 41	7 57
12	5 57 24.32	2 25.96	20 3 20.5	11 50.9	9.891349	22 40	7 58
13	6 0 12.68	2 48.36	20 15 36.9	12 16.4	9.902782	22 39	8 0
14	6 3 23.42	+3 10.74	+20 28 9.7	+12 32.8	9.914271	22 38	8 1
15	6 6 56.45	3 33.03	20 40 49.1	12 39.4	9.925780	22 37	8 2
16	6 10 51.65	3 55.20	20 53 25.2	12 36.1	9.937273	22 37	8 4
17	6 15 8.88	4 17.23	21 5 47.6	12 22.4	9.948713	22 38	8 5
18	6 19 47.92	4 39.04	21 17 45.4	11 57.8	9.960067	22 39	8 7
19	6 24 48.50	+5 0.58	+21 29 7.5	+11 22.1	9.971298	22 40	8 8
20	6 30 10.29	5 21.79	21 39 42.3	10 34.8	9.982374	22 41	8 9
21	6 35 52.90	5 42.61	21 49 18.1	9 35.8	9.993258	22 43	8 11
22	6 41 55.80	6 2.90	21 57 43.0	8 24.9	0.003917	22 45	8 12
23	6 48 18.40	6 22.60	22 4 45.0	7 2.0	0.014316	22 47	8 12
24	6 54 59.93	+6 41.53	+22 10 12.2	+5 27.2	0.024420	22 50	8 13
25	7 1 59.50	6 59.57	22 13 52.9	3 40.7	0.034196	22 53	8 13
26	7 9 16.07	7 16.57	22 15 36.0	+1 43.1	0.043610	22 56	8 14
27	7 16 48.42	7 32.35	22 15 11.4	-0 24.6	0.052629	23 0	8 14
28	7 24 35.17	7 46.75	22 12 29.3	2 42.1	0.061225	23 4	8 13
29	7 32 34.77	+7 59.60	+22 7 22.0	-5 7.3	0.069370	23 8	8 13
30	7 40 45.56	8 10.79	21 59 42.9	7 39.1	0.077041	23 12	8 12
31	7 49 5.75	8 20.19	21 49 27.2	10 15.7	0.084218	23 16	8 11
Aug. 1	7 57 33.47	8 27.72	21 36 32.2	12 55.0	0.090887	23 21	8 9
2	8 6 6.82	8 33.35	21 20 56.8	15 35.4	0.097037	23 26	8 7
3	8 14 43.90	+8 37.08	+21 2 42.4	-18 14.4	0.102666	23 30	8 5
4	8 23 22.89	8 38.99	20 41 52.0	20 50.4	0.107774	23 35	8 3
5	8 32 2.05	8 39.16	20 18 30.2	23 21.8	0.112366	23 40	8 0
6	8 40 39.76	8 37.71	19 52 43.5	25 46.7	0.116455	23 44	7 57
7	8 49 14.57	8 34.81	19 24 39.3	28 4.2	0.120054	23 49	7 54
8	8 57 45.22	+8 30.65	+18 54 26.1	-30 13.2	0.123182	23 54	7 50
9	9 6 10.61	8 25.39	18 22 12.9	32 13.2	0.125859	23 58	7 47
10	9 14 29.83	8 19.22	17 48 9.2	34 3.7	0.128106	0 3	7 43
11	9 22 42.15	8 12.32	17 12 24.6	35 44.6	0.129947	0 7	7 39
12	9 30 47.02	8 4.87	16 35 8.7	37 15.9	0.131405	0 11	7 36
13	9 38 44.01	+7 56.99	+15 56 30.8	-38 37.9	0.132503	0 15	7 32
14	9 46 32.84	7 48.83	15 16 39.9	39 50.9	0.133264	0 19	7 27
15	9 54 13.35	7 40.51	14 35 44.5	40 55.4	0.133708	0 22	7 23
16	10 1 45.47	7 32.12	13 53 52.7	41 51.8	0.133856	0 26	7 19
17	10 9 9.21	7 23.74	13 11 12.2	42 40.5	0.133728	0 30	7 15

Wahrer geocentrischer Ort.

$^{\circ}$ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Aug. 16	10 ^h 1 ^m 45.47		+13 53 52.7		0.133856	0 ^h 26 ^m	7 19 ^m
17	10 9 9.21	+7 23.74	13 11 12.2	-42 40.5	0.133728	0 30	7 15
18	10 16 24.65	7 15.44	12 27 49.8	43 22.4	0.133341	0 33	7 11
19	10 23 31.92	7 7.27	11 43 52.2	43 57.6	0.132712	0 36	7 7
20	10 30 31.19	6 59.27	10 59 25.4	44 26.8	0.131854	0 39	7 2
21	10 37 22.67	+6 51.48	+10 14 34.8	-44 50.6	0.130781	0 42	6 58
22	10 44 6.58	6 43.91	9 29 25.7	45 9.1	0.129506	0 45	6 54
23	10 50 43.16	6 36.58	8 44 2.6	45 23.1	0.128039	0 47	6 50
24	10 57 12.65	6 29.49	7 58 29.9	45 32.7	0.126389	0 50	6 46
25	11 3 35.31	6 22.66	7 12 51.6	45 38.3	0.124565	0 52	6 42
26	11 9 51.39	+6 16.08	+ 6 27 11.4	-45 40.2	0.122573	0 55	6 38
27	11 16 1.13	6 9.74	5 41 32.6	45 38.8	0.120419	0 57	6 33
28	11 22 4.77	6 3.64	4 55 58.4	45 34.2	0.118109	0 59	6 29
29	11 28 2.53	5 57.76	4 10 31.6	45 26.8	0.115646	I 1	6 25
30	11 33 54.64	5 52.11	3 25 15.0	45 16.6	0.113034	I 3	6 22
31	11 39 41.30	+5 46.66	+ 2 40 11.3	-45 3.7	0.110276	I 5	6 18
Sept. 1	11 45 22.68	5 41.38	1 55 22.7	44 48.6	0.107373	I 7	6 14
2	11 50 58.98	5 36.30	1 10 51.6	44 31.1	0.104327	I 8	6 10
3	11 56 30.35	5 31.37	+ 0 26 40.2	44 11.4	0.101138	I 10	6 6
4	12 1 56.92	5 26.57	- 0 17 9.4	43 49.6	0.097806	I 11	6 2
5	12 7 18.82	+5 21.90	- 1 0 35.2	-43 25.8	0.094330	I 13	5 58
6	12 12 36.16	5 17.34	1 43 35.2	43 0.0	0.090710	I 14	5 55
7	12 17 49.01	5 12.85	2 26 7.3	42 32.1	0.086943	I 15	5 51
8	12 22 57.45	5 8.44	3 8 9.8	42 2.5	0.083029	I 17	5 47
9	12 28 1.51	5 4.06	3 49 40.6	41 30.8	0.078964	I 18	5 44
10	12 33 1.22	+4 59.71	- 4 30 37.9	-40 57.3	0.074745	I 19	5 40
11	12 37 56.57	4 55.35	5 10 59.6	40 21.7	0.070370	I 20	5 37
12	12 42 47.54	4 50.97	5 50 43.7	39 44.1	0.065835	I 21	5 33
13	12 47 34.06	4 46.52	6 29 48.2	39 4.5	0.061135	I 22	5 30
14	12 52 16.04	4 41.98	7 8 10.8	38 22.6	0.056266	I 22	5 26
15	12 56 53.36	+4 37.32	- 7 45 49.3	-37 38.5	0.051225	I 23	5 23
16	13 1 25.87	4 32.51	8 22 41.3	36 52.0	0.046005	I 23	5 19
17	13 5 53.36	4 27.49	8 58 44.4	36 3.1	0.040602	I 24	5 16
18	13 10 15.61	4 22.25	9 33 55.8	35 11.4	0.035011	I 24	5 13
19	13 14 32.33	4 16.72	10 8 12.5	34 16.7	0.029226	I 25	5 10
20	13 18 43.18	+4 10.85	-10 41 31.6	-33 19.1	0.023241	I 25	5 7
21	13 22 47.79	4 4.61	11 13 49.6	32 18.0	0.017052	I 25	5 4
22	13 26 45.70	3 57.91	11 45 2.8	31 13.2	0.010653	I 25	5 1
23	13 30 36.39	3 50.69	12 15 7.2	30 4.4	0.004039	I 25	4 58
24	13 34 19.29	3 42.90	12 43 58.6	28 51.4	9.997206	I 25	4 55

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Sept. 23	13 ^h 30 ^m 36.39 ^s		—12° 15' 7.2"		0.004039	1 ^h 25 ^m	4 58 ^m
24	13 34 19.29	+3 42.90	12 43 58.6	—28 51.4	9.997206	I 25	4 55
25	13 37 53.72	3 34.43	13 11 32.1	27 33.5	9.990149	I 25	4 53
26	13 41 18.93	3 25.21	13 37 42.2	26 10.1	9.982867	I 24	4 50
27	13 44 34.07	3 15.14	14 2 23.2	24 41.0	9.975358	I 23	4 48
28	13 47 38.19	+3 4.12	—14 25 28.5	—23 5.3	9.967622	I 22	4 46
29	13 50 30.24	2 52.05	14 46 50.8	21 22.3	9.959662	I 21	4 44
30	13 53 9.05	2 38.81	15 6 22.0	19 31.2	9.951484	I 20	4 42
Oct. 1	13 55 33.34	2 24.29	15 23 53.4	17 31.4	9.943098	I 19	4 40
2	13 57 41.71	2 8.37	15 39 15.0	15 21.6	9.934518	I 17	4 38
3	13 59 32.66	+1 50.95	—15 52 15.7	—13 0.7	9.925764	I 15	4 37
4	14 1 4.58	1 31.92	16 2 43.7	10 28.0	9.916865	I 12	4 36
5	14 2 15.80	1 11.22	16 10 25.8	7 42.1	9.907856	I 9	4 35
6	14 3 4.57	0 48.77	16 15 7.8	4 42.0	9.898784	I 6	4 35
7	14 3 29.17	+0 24.60	16 16 34.6	—1 26.8	9.889709	I 3	4 35
8	14 3 27.93	—0 1.24	—16 14 30.5	+2 4.1	9.880705	0 59	4 35
9	14 2 59.33	0 28.60	16 8 39.4	5 51.1	9.871862	0 54	4 35
10	14 2 2.12	0 57.21	15 58 45.9	9 53.5	9.863289	0 49	4 36
11	14 0 35.46	1 26.66	15 44 35.7	14 10.2	9.855114	0 44	4 38
12	13 58 39.04	1 56.42	15 25 57.4	18 38.3	9.847484	0 38	4 40
13	13 56 13.29	—2 25.75	—15 2 44.1	+23 13.3	9.840564	0 32	4 42
14	13 53 19.57	2 53.72	14 34 55.0	27 49.1	9.834535	0 25	4 45
15	13 50 0.30	3 19.27	14 2 38.1	32 16.9	9.829587	0 18	4 48
16	13 46 19.06	3 41.24	13 26 11.6	36 26.5	9.825907	0 10	4 51
17	13 42 20.66	3 58.40	12 46 6.0	40 5.6	9.823675	0 2	4 55
18	13 38 11.03	—4 9.63	—12 3 4.3	+43 1.7	9.823044	23 54	4 59
19	13 33 57.03	4 14.00	11 18 1.9	45 2.4	9.824128	23 46	5 3
20	13 29 46.15	4 10.88	10 32 4.2	45 57.7	9.826993	23 38	5 8
21	13 25 46.06	4 0.09	9 46 23.4	45 40.8	9.831643	23 30	5 12
22	13 22 4.22	3 41.84	9 2 13.5	44 9.9	9.838023	23 22	5 16
23	13 18 47.39	—3 16.83	—8 20 45.8	+41 27.7	9.846015	23 15	5 20
24	13 16 1.32	2 46.07	7 43 4.0	37 41.8	9.855452	23 8	5 23
25	13 13 50.46	2 10.86	7 10 0.7	33 3.3	9.866129	23 2	5 26
26	13 12 17.85	1 32.61	6 42 15.3	27 45.4	9.877814	22 57	5 28
27	13 11 25.15	0 52.70	6 20 13.2	22 2.1	9.890270	22 52	5 30
28	13 11 12.73	—0 12.42	—6 4 6.2	+16 7.0	9.903263	22 48	5 32
29	13 11 39.86	+0 27.13	5 53 54.3	10 11.9	9.916573	22 44	5 33
30	13 12 44.93	1 5.07	5 49 27.6	+4 26.7	9.930006	22 41	5 33
31	13 14 25.69	1 40.76	5 50 28.6	—1 1.0	9.943390	22 39	5 33
Nov. 1	13 16 39.47	2 13.78	5 56 34.4	6 5.8	9.956586	22 37	5 33

Wahrer geocentrischer Ort.

$\overset{h}{\circ}$ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Oct. 31	13 ^h 14 ^m 25.69		— 5° 50' 28.6		9.943390	22 ^h 39 ^m 5 ^m	33
Nov. 1	13 16 39.47	+2 13.78	5 56 34.4	— 6 5.8	9.956586	22 37	5 33
2	13 19 23.35	2 43.88	6 7 18.7	10 44.3	9.969479	22 36	5 32
3	13 22 34.35	3 11.00	6 22 13.4	14 54.7	9.981982	22 35	5 30
4	13 26 9.53	3 35.18	6 40 50.0	18 36.6	9.994032	22 35	5 29
5	13 30 6.09	+3 56.56	— 7 2 40.6	— 21 50.6	0.005583	22 35	5 27
6	13 34 21.41	4 15.32	7 27 18.5	24 37.9	0.016608	22 35	5 24
7	13 38 53.11	4 31.70	7 54 18.8	27 0.3	0.027093	22 36	5 22
8	13 43 39.05	4 45.94	8 23 18.4	28 59.6	0.037036	22 37	5 19
9	13 48 37.34	4 58.29	8 53 56.4	30 38.0	0.046441	22 38	5 17
10	13 53 46.32	+5 8.98	— 9 25 53.9	— 31 57.5	0.055319	22 39	5 14
11	13 59 4.54	5 18.22	9 58 54.1	33 0.2	0.063686	22 40	5 11
12	14 4 30.77	5 26.23	10 32 42.0	33 47.9	0.071560	22 42	5 8
13	14 10 3.94	5 33.17	11 7 4.2	34 22.2	0.078962	22 43	5 4
14	14 15 43.18	5 39.24	11 41 49.1	34 44.9	0.085912	22 45	5 1
15	14 21 27.72	+5 44.54	— 12 16 46.4	— 34 57.3	0.092433	22 47	4 58
16	14 27 16.92	5 49.20	12 51 47.0	35 0.6	0.098544	22 49	4 55
17	14 33 10.27	5 53.35	13 26 42.8	34 55.8	0.104268	22 51	4 51
18	14 39 7.33	5 57.06	14 1 27.0	34 44.2	0.109623	22 53	4 48
19	14 45 7.75	6 0.42	14 35 53.2	34 26.2	0.114628	22 55	4 45
20	14 51 11.22	+6 3.47	— 15 9 56.0	— 34 2.8	0.119302	22 57	4 41
21	14 57 17.51	6 6.29	15 43 30.5	33 34.5	0.123660	22 59	4 38
22	15 3 26.43	6 8.92	16 16 32.6	33 2.1	0.127719	23 1	4 35
23	15 9 37.83	6 11.40	16 48 58.2	32 25.6	0.131492	23 4	4 31
24	15 15 51.58	6 13.75	17 20 43.8	31 45.6	0.134994	23 6	4 28
25	15 22 7.59	+6 16.01	— 17 51 46.4	— 31 2.6	0.138236	23 8	4 25
26	15 28 25.78	6 18.19	18 22 3.0	30 16.6	0.141229	23 11	4 22
27	15 34 46.10	6 20.32	18 51 31.2	29 28.2	0.143985	23 13	4 18
28	15 41 8.51	6 22.41	19 20 8.5	28 37.3	0.146513	23 15	4 15
29	15 47 32.98	6 24.47	19 47 52.6	27 44.1	0.148820	23 18	4 12
30	15 53 59.47	+6 26.49	— 20 14 41.5	— 26 48.9	0.150916	23 20	4 9
Dec. 1	16 0 27.99	6 28.52	20 40 33.2	25 51.7	0.152807	23 23	4 7
2	16 6 58.52	6 30.53	21 5 25.9	24 52.7	0.154499	23 26	4 4
3	16 13 31.04	6 32.52	21 29 17.8	23 51.9	0.155998	23 28	4 1
4	16 20 5.55	6 34.51	21 52 7.3	22 49.5	0.157309	23 31	3 58
5	16 26 42.03	+6 36.48	— 22 13 52.6	— 21 45.3	0.158436	23 33	3 56
6	16 33 20.49	6 38.46	22 34 32.3	20 39.7	0.159383	23 36	3 53
7	16 40 0.90	6 40.41	22 54 4.8	19 32.5	0.160152	23 39	3 51
8	16 46 43.24	6 42.34	23 12 28.6	18 23.8	0.160748	23 42	3 49
9	16 53 27.49	6 44.25	23 29 42.2	17 13.6	0.161170	23 44	3 47

Wahrer geocentrischer Ort.

$\overset{h}{\circ}$ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Dec. 8	16 ^h 46 ^m 43.24		-23° 12' 28.6"		0.160748	23 ^h 42 ^m	3 ^h 49 ^m
9	16 53 27.49	+6 ^m 44.25	23 29 42.2	-17 ^s 13.6	0.161170	23 44	3 47
10	17 0 13.63	6 46.14	23 45 44.1	16 1.9	0.161422	23 47	3 45
11	17 7 1.62	6 47.99	24 0 32.9	14 48.8	0.161504	23 50	3 43
12	17 13 51.42	6 49.80	24 14 7.2	13 34.3	0.161416	23 53	3 41
		+6 51.56		-12 18.3			
13	17 20 42.98	6 53.26	-24 26 25.5	11 1.1	0.161159	23 56	3 40
14	17 27 36.24	6 54.91	24 37 26.6	9 42.4	0.160731	23 59	3 38
15	17 34 31.15	6 56.47	24 47 9.0	8 22.4	0.160131	0 2	3 37
16	17 41 27.62	6 57.95	24 55 31.4	7 1.0	0.159357	0 5	3 36
17	17 48 25.57	+6 59.34	25 2 32.4	-5 38.4	0.158408	0 8	3 35
18	17 55 24.91	7 0.62	-25 8 10.8	4 14.4	0.157280	0 11	3 34
19	18 2 25.53	7 1.76	25 12 25.2	2 49.2	0.155969	0 14	3 34
20	18 9 27.29	7 2.78	25 15 14.4	-1 22.7	0.154472	0 17	3 33
21	18 16 30.07	7 3.64	25 16 37.1	+0 4.8	0.152784	0 20	3 33
22	18 23 33.71	+7 4.32	25 16 32.3	+1 33.5	0.150898	0 23	3 33
23	18 30 38.03	7 4.82	-25 14 58.8	3 3.4	0.148808	0 26	3 33
24	18 37 42.85	7 5.10	25 11 55.4	4 34.0	0.146508	0 30	3 34
25	18 44 47.95	7 5.16	25 7 21.4	6 5.7	0.143990	0 33	3 34
26	18 51 53.11	7 4.96	25 1 15.7	7 38.1	0.141245	0 36	3 35
27	18 58 58.07	+7 4.47	24 53 37.6	+9 11.2	0.138263	0 39	3 36
28	19 6 2.54	7 3.66	-24 44 26.4	10 44.7	0.135034	0 42	3 37
29	19 13 6.20	7 2.51	24 33 41.7	12 18.6	0.131546	0 45	3 39
30	19 20 8.71	7 0.97	24 21 23.1	13 52.6	0.127788	0 48	3 40
31	19 27 9.68	6 59.00	24 7 30.5	15 26.4	0.123745	0 51	3 42
32	19 34 8.68	+6 56.53	23 52 4.1	+16 59.8	0.119403	0 54	3 44
33	19 41 5.21		-23 35 4.3		0.114745	0 57	3 46

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Jan. 0	21 ^h 42 ^m 29.34 ^s		-14° 9' 25.1"		9.679690	3 ^h 5 ^m	4 47 ^h 47 ^m
1	21 45 4.89	+2 35.55	13 47 19.0	+22 6.1	9.673276	3 4	4 49
2	21 47 35.26	2 30.37	13 25 14.1	22 4.9	9.666806	3 3	4 51
3	21 50 0.33	2 25.07	13 3 11.8	22 2.3	9.660282	3 1	4 54
4	21 52 19.95	2 19.62	12 41 13.6	21 58.2	9.653706	3 0	4 56
5	21 54 33.94	+2 13.99	-12 19 20.9	+21 52.7	9.647079	2 58	4 58
6	21 56 42.15	2 8.21	11 57 35.3	21 45.6	9.640404	2 56	5 0
7	21 58 44.40	2 2.25	11 35 58.4	21 36.9	9.633683	2 54	5 2
8	22 0 40.52	1 56.12	11 14 31.8	21 26.6	9.626919	2 52	5 4
9	22 2 30.33	1 49.81	10 53 17.2	21 14.6	9.620114	2 50	5 6
10	22 4 13.64	+1 43.31	-10 32 16.2	+21 1.0	9.613273	2 48	5 8
11	22 5 50.24	1 36.60	10 11 30.7	20 45.5	9.606400	2 46	5 10
12	22 7 19.93	1 29.69	9 51 2.5	20 28.2	9.599501	2 43	5 11
13	22 8 42.49	1 22.56	9 30 53.8	20 8.7	9.592579	2 41	5 13
14	22 9 57.69	1 15.20	9 11 6.7	19 47.1	9.585643	2 38	5 15
15	22 11 5.30	+1 7.61	- 8 51 43.1	+19 23.6	9.578699	2 35	5 17
16	22 12 5.14	0 59.84	8 32 45.0	18 58.1	9.571753	2 32	5 19
17	22 12 56.99	0 51.85	8 14 14.5	18 30.5	9.564815	2 29	5 20
18	22 13 40.62	0 43.63	7 56 14.0	18 0.5	9.557895	2 26	5 22
19	22 14 15.80	0 35.18	7 38 45.9	17 28.1	9.551004	2 23	5 23
20	22 14 42.34	+0 26.54	- 7 21 52.4	+16 53.5	9.544152	2 19	5 25
21	22 15 0.06	0 17.72	7 5 36.1	16 16.3	9.537353	2 15	5 26
22	22 15 8.81	+0 8.75	6 49 59.1	15 37.0	9.530620	2 12	5 28
23	22 15 8.43	-0 0.38	6 35 3.8	14 55.3	9.523969	2 8	5 29
24	22 14 58.81	0 9.62	6 20 53.0	14 10.8	9.517414	2 4	5 30
25	22 14 39.86	-0 18.95	- 6 7 28.8	+13 24.2	9.510973	1 59	5 32
26	22 14 11.54	0 28.32	5 54 53.5	12 35.3	9.504664	1 55	5 33
27	22 13 33.82	0 37.72	5 43 9.5	11 44.0	9.498504	1 50	5 34
28	22 12 46.70	0 47.12	5 32 19.3	10 50.2	9.492512	1 46	5 35
29	22 11 50.27	0 56.43	5 22 25.0	9 54.3	9.486710	1 41	5 36
30	22 10 44.65	-1 5.62	- 5 13 28.4	+ 8 56.6	9.481118	1 36	5 36
31	22 9 30.02	1 14.63	5 5 31.7	7 56.7	9.475756	1 31	5 37
Febr. 1	22 8 6.60	1 23.42	4 58 36.6	6 55.1	9.470648	1 25	5 38
2	22 6 34.66	1 31.94	4 52 44.6	5 52.0	9.465816	1 20	5 38
3	22 4 54.56	1 40.10	4 47 57.2	4 47.4	9.461279	1 14	5 39
4	22 3 6.74	-1 47.82	- 4 44 15.4	+ 3 41.8	9.457061	1 8	5 39
5	22 1 11.70	1 55.04	4 41 39.5	2 35.9	9.453183	1 3	5 39
6	21 59 9.97	2 1.73	4 40 10.0	1 29.5	9.449667	0 57	5 39
7	21 57 2.21	2 7.76	4 39 47.0	+ 0 23.0	9.446530	0 51	5 39
8	21 54 49.12	2 13.09	4 40 29.9	- 0 42.9	9.443790	0 44	5 39

Wahrer geocentrischer Ort.

Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
Febr. 7	21 ^h 57 ^m 2.21 ^s		—4° 39' 47.0"		9.446530	0 ^h 51 ^m	5 ^h 39 ^m
8	21 54 49.12	—2 13.09	4 40 29.9	—0 42.9	9.443790	0 44	5 39
9	21 52 31.41	2 17.71	4 42 17.7	1 47.8	9.441466	0 38	5 39
10	21 50 9.92	2 21.49	4 45 8.9	2 51.2	9.439571	0 32	5 39
11	21 47 45.52	2 24.40	4 49 1.7	3 52.8	9.438117	0 25	5 38
12	21 45 19.10	—2 26.42	—4 53 53.7	—4 52.0	9.437116	0 19	5 38
13	21 42 51.58	2 27.52	4 59 42.3	5 48.6	9.436573	0 13	5 38
14	21 40 23.90	2 27.68	5 6 24.3	6 42.0	9.436495	0 6	5 37
15	21 37 57.05	2 26.85	5 13 56.1	7 31.8	9.436882	0 0	5 36
16	21 35 31.99	2 25.06	5 22 13.6	8 17.5	9.437734	23 54	5 36
17	21 33 9.64	—2 22.35	—5 31 12.6	—8 59.0	9.439047	23 47	5 35
18	21 30 50.95	2 18.69	5 40 48.6	9 36.0	9.440815	23 41	5 34
19	21 28 36.82	2 14.13	5 50 56.9	10 8.3	9.443025	23 35	5 33
20	21 26 28.08	2 8.74	6 1 32.7	10 35.8	9.445666	23 29	5 32
21	21 24 25.53	2 2.55	6 12 31.3	10 58.6	9.448723	23 23	5 31
22	21 22 29.86	—1 55.67	—6 23 47.6	—11 16.3	9.452178	23 17	5 30
23	21 20 41.73	1 48.13	6 35 17.1	11 29.5	9.456013	23 11	5 29
24	21 19 1.74	1 39.99	6 46 55.1	11 38.0	9.460208	23 5	5 28
25	21 17 30.37	1 31.37	6 58 37.3	11 42.2	9.464738	23 0	5 27
26	21 16 8.01	1 22.36	7 10 19.4	11 42.1	9.469583	22 55	5 26
27	21 14 55.02	—1 12.99	—7 21 57.4	—11 38.0	9.474719	22 50	5 25
28	21 13 51.64	1 3.38	7 33 27.6	11 30.2	9.480123	22 45	5 24
März 1	21 12 58.09	0 53.55	7 44 46.5	11 18.9	9.485773	22 40	5 23
2	21 12 14.45	0 43.64	7 55 51.1	11 4.6	9.491647	22 35	5 22
3	21 11 40.80	0 33.65	8 6 38.5	10 47.4	9.497721	22 31	5 21
4	21 11 17.13	—0 23.67	—8 17 6.0	—10 27.5	9.503975	22 26	5 20
5	21 11 3.41	0 13.72	8 27 11.2	10 5.2	9.510389	22 22	5 19
6	21 10 59.54	—0 3.87	8 36 52.1	9 40.9	9.516943	22 18	5 18
7	21 11 5.41	+0 5.87	8 46 6.9	9 14.8	9.523618	22 14	5 17
8	21 11 20.82	0 15.41	8 54 53.7	8 46.8	9.530397	22 10	5 17
9	21 11 45.59	+0 24.77	—9 3 10.9	—8 17.2	9.537266	22 7	5 16
10	21 12 19.53	0 33.94	9 10 57.3	7 46.4	9.544209	22 4	5 15
11	21 13 2.37	0 42.84	9 18 12.1	7 14.8	9.551213	22 0	5 14
12	21 13 53.88	0 51.51	9 24 54.3	6 42.2	9.558264	21 57	5 14
13	21 14 53.81	0 59.93	9 31 2.7	6 8.4	9.565350	21 54	5 13
14	21 16 1.90	+1 8.09	—9 36 36.7	—5 34.0	9.572463	21 52	5 13
15	21 17 17.87	1 15.97	9 41 35.8	4 59.1	9.579593	21 49	5 12
16	21 18 41.47	1 23.60	9 45 59.4	4 23.6	9.586729	21 46	5 12
17	21 20 12.42	1 30.95	9 49 46.9	3 47.5	9.593865	21 44	5 12
18	21 21 50.49	1 38.07	9 52 57.9	3 11.0	9.600994	21 42	5 11

Wahrer geocentrischer Ort.

\circ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
März 17	21 ^h 20 ^m 12.42		-9 49 46.9		9.593865	21 ^h 44 ^m	5 12 ^m
18	21 21 50.49	+1 38.07	9 52 57.9	- 3 11.0	9.600994	21 42	5 11
19	21 23 35.38	1 44.89	9 55 32.2	2 34.3	9.608108	21 39	5 11
20	21 25 26.88	1 51.50	9 57 29.5	1 57.3	9.615202	21 37	5 11
21	21 27 24.70	1 57.82	9 58 49.8	1 20.3	9.622269	21 35	5 11
22	21 29 28.60	+2 3.90	-9 59 32.8	- 0 43.0	9.629305	21 33	5 11
23	21 31 38.34	2 9.74	9 59 38.4	- 0 5.6	9.636305	21 32	5 11
24	21 33 53.68	2 15.34	9 59 6.7	+ 0 31.7	9.643265	21 30	5 11
25	21 36 14.39	2 20.71	9 57 57.7	1 9.0	9.650181	21 28	5 11
26	21 38 40.21	2 25.82	9 56 11.7	1 46.0	9.657050	21 27	5 11
27	21 41 10.93	+2 30.72	-9 53 48.7	+ 2 23.0	9.663869	21 25	5 11
28	21 43 46.32	2 35.39	9 50 48.9	2 59.8	9.670637	21 24	5 11
29	21 46 26.18	2 39.86	9 47 12.7	3 36.2	9.677348	21 23	5 12
30	21 49 10.29	2 44.11	9 43 0.3	4 12.4	9.684002	21 22	5 12
31	21 51 58.45	2 48.16	9 38 11.9	4 48.4	9.690598	21 20	5 13
April 1	21 54 50.47	+2 52.02	-9 32 48.0	+ 5 23.9	9.697135	21 19	5 13
2	21 57 46.15	2 55.68	9 26 49.1	5 58.9	9.703610	21 18	5 14
3	22 0 45.29	2 59.14	9 20 15.5	6 33.6	9.710022	21 17	5 14
4	22 3 47.75	3 2.46	9 13 7.7	7 7.8	9.716372	21 16	5 15
5	22 6 53.36	3 5.61	9 5 25.9	7 41.8	9.722658	21 16	5 16
6	22 10 1.93	+3 8.57	-8 57 10.9	+ 8 15.0	9.728881	21 15	5 16
7	22 13 13.31	3 11.38	8 48 23.0	8 47.9	9.735040	21 14	5 17
8	22 16 27.36	3 14.05	8 39 2.9	9 20.1	9.741134	21 13	5 18
9	22 19 43.92	3 16.56	8 29 10.9	9 52.0	9.747165	21 13	5 19
10	22 23 2.87	3 18.95	8 18 47.8	10 23.1	9.753133	21 12	5 20
11	22 26 24.10	+3 21.23	-8 7 54.0	+10 53.8	9.759037	21 11	5 21
12	22 29 47.47	3 23.37	7 56 30.0	11 24.0	9.764880	21 11	5 22
13	22 33 12.89	3 25.42	7 44 36.4	11 53.6	9.770660	21 10	5 23
14	22 36 40.25	3 27.36	7 32 13.6	12 22.8	9.776380	21 10	5 24
15	22 40 9.43	3 29.18	7 19 22.3	12 51.3	9.782038	21 9	5 25
16	22 43 40.38	+3 30.95	-7 6 3.0	+13 19.3	9.787635	21 9	5 26
17	22 47 13.00	3 32.62	6 52 16.2	13 46.8	9.793173	21 9	5 28
18	22 50 47.22	3 34.22	6 38 2.5	14 13.7	9.798653	21 8	5 29
19	22 54 22.98	3 35.76	6 23 22.5	14 40.0	9.804074	21 8	5 30
20	22 58 0.17	3 37.19	6 8 16.9	15 5.6	9.809435	21 8	5 31
21	23 1 38.76	+3 38.59	-5 52 46.0	+15 30.9	9.814739	21 7	5 33
22	23 5 18.69	3 39.93	5 36 50.6	15 55.4	9.819986	21 7	5 34
23	23 8 59.88	3 41.19	5 20 31.4	16 19.2	9.825177	21 7	5 36
24	23 12 42.29	3 42.41	5 3 48.8	16 42.6	9.830311	21 7	5 37
25	23 16 25.86	3 43.57	4 46 43.8	17 5.0	9.835389	21 6	5 39

Wahrer geocentrischer Ort.

O^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
April 24	23 ^h 12 ^m 42.29 ^s		-5° 3' 48.8"		9.830311	21 ^h 7 ^m	5 37 ^m
25	23 16 25.86	+3 43.57	4 46 43.8	+17 5.0	9.835389	21 6	5 39
26	23 20 10.55	3 44.69	4 29 16.7	17 27.1	9.840412	21 6	5 40
27	23 23 56.31	3 45.76	4 11 28.4	17 48.3	9.845380	21 6	5 42
28	23 27 43.10	3 46.79	3 53 19.5	18 8.9	9.850294	21 6	5 43
29	23 31 30.88	+3 47.78	-3 34 50.6	+18 28.9	9.855154	21 6	5 45
30	23 35 19.61	3 48.73	3 16 2.4	18 48.2	9.859959	21 5	5 47
Mai 1	23 39 9.26	3 49.65	2 56 55.7	19 6.7	9.864714	21 5	5 48
2	23 42 59.78	3 50.52	2 37 31.1	19 24.6	9.869414	21 5	5 50
3	23 46 51.14	3 51.36	2 17 49.4	19 41.7	9.874063	21 5	5 52
4	23 50 43.34	+3 52.20	-1 57 51.3	+19 58.1	9.878661	21 5	5 53
5	23 54 36.35	3 53.01	1 37 37.4	20 13.9	9.883208	21 5	5 55
6	23 58 30.12	3 53.77	1 17 8.5	20 28.9	9.887705	21 5	5 57
7	0 2 24.64	3 54.52	0 56 25.3	20 43.2	9.892154	21 5	5 59
8	0 6 19.89	3 55.25	0 35 28.5	20 56.8	9.896553	21 5	6 1
9	0 10 15.86	+3 55.97	-0 14 18.8	+21 9.7	9.900905	21 5	6 2
10	0 14 12.52	3 56.66	+0 7 3.0	21 21.8	9.905209	21 5	6 4
11	0 18 9.89	3 57.37	0 28 36.4	21 33.4	9.909467	21 5	6 6
12	0 22 7.95	3 58.06	0 50 20.5	21 44.1	9.913680	21 5	6 8
13	0 26 6.68	3 58.73	1 12 14.8	21 54.3	9.917848	21 5	6 10
14	0 30 6.11	+3 59.43	+1 34 18.6	+22 3.8	9.921972	21 5	6 12
15	0 34 6.23	4 0.12	1 56 31.2	22 12.6	9.926052	21 5	6 14
16	0 38 7.05	4 0.82	2 18 51.9	22 20.7	9.930090	21 5	6 16
17	0 42 8.58	4 1.53	2 41 20.0	22 28.1	9.934085	21 5	6 18
18	0 46 10.81	4 2.23	3 3 55.0	22 35.0	9.938039	21 5	6 20
19	0 50 13.76	+4 2.95	+3 26 36.0	+22 41.0	9.941952	21 5	6 22
20	0 54 17.46	4 3.70	3 49 22.5	22 46.5	9.945823	21 6	6 24
21	0 58 21.90	4 4.44	4 12 13.6	22 51.1	9.949655	21 6	6 26
22	1 2 27.09	4 5.19	4 35 8.9	22 55.3	9.953447	21 6	6 28
23	1 6 33.05	4 5.96	4 58 7.5	22 58.6	9.957199	21 6	6 30
24	1 10 39.79	+4 6.74	+5 21 8.7	+23 1.2	9.960912	21 6	6 32
25	1 14 47.33	4 7.54	5 44 11.8	23 3.1	9.964585	21 6	6 34
26	1 18 55.67	4 8.34	6 7 16.3	23 4.5	9.968222	21 7	6 36
27	1 23 4.82	4 9.15	6 30 21.2	23 4.9	9.971820	21 7	6 38
28	1 27 14.80	4 9.98	6 53 26.0	23 4.8	9.975379	21 7	6 40
29	1 31 25.64	+4 10.84	+7 16 29.8	+23 3.8	9.978902	21 7	6 42
30	1 35 37.36	4 11.72	7 39 32.1	23 2.3	9.982388	21 8	6 44
31	1 39 49.94	4 12.58	8 2 32.0	22 59.9	9.985837	21 8	6 46
Juni 1	1 44 3.40	4 13.46	8 25 29.0	22 57.0	9.989248	21 8	6 48
2	1 48 17.77	4 14.37	8 48 22.1	22 53.1	9.992624	21 8	6 50

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Juni	1	^h 44 ^m 3.40		+ 8° 25' 29.0		9.989248	21 ^h 8 ^m 6 48 ^m
	2	1 48 17.77	+4 14.37	8 48 22.1	+22 53.1	9.992624	21 8 6 50
	3	1 52 33.05	4 15.28	9 11 10.7	22 48.6	9.995965	21 8 6 52
	4	1 56 49.25	4 16.20	9 33 54.1	22 43.4	9.999270	21 9 6 54
	5	2 1 6.39	4 17.14	9 56 31.6	22 37.5	0.002539	21 9 6 56
	6	2 5 24.47	+4 18.08	+10 19 2.3	+22 30.7	0.005775	21 10 6 59
	7	2 9 43.52	4 19.05	10 41 25.7	22 23.4	0.008976	21 10 7 1
	8	2 14 3.55	4 20.03	11 3 40.9	22 15.2	0.012144	21 10 7 3
	9	2 18 24.55	4 21.00	11 25 47.4	22 6.5	0.015279	21 11 7 5
	10	2 22 46.55	4 22.00	11 47 44.2	21 56.8	0.018380	21 11 7 7
	11	2 27 9.57	+4 23.02	+12 9 30.8	+21 46.6	0.021450	21 12 7 9
	12	2 31 33.63	4 24.06	12 31 6.5	21 35.7	0.024489	21 12 7 11
	13	2 35 58.75	4 25.12	12 52 30.5	21 24.0	0.027495	21 13 7 13
	14	2 40 24.93	4 26.18	13 13 42.3	21 11.8	0.030472	21 13 7 15
	15	2 44 52.21	4 27.28	13 34 40.9	20 58.6	0.033417	21 14 7 17
	16	2 49 20.59	+4 28.38	+13 55 25.7	+20 44.8	0.036333	21 14 7 19
	17	2 53 50.10	4 29.51	14 15 56.1	20 30.4	0.039220	21 15 7 21
	18	2 58 20.73	4 30.63	14 36 11.4	20 15.3	0.042076	21 15 7 23
	19	3 2 52.52	4 31.79	14 56 10.8	19 59.4	0.044902	21 16 7 25
	20	3 7 25.46	4 32.94	15 15 53.6	19 42.8	0.047700	21 17 7 27
21	3 11 59.57	+4 34.11	+15 35 19.1	+19 25.5	0.050470	21 17 7 29	
22	3 16 34.87	4 35.30	15 54 26.6	19 7.5	0.053210	21 18 7 31	
23	3 21 11.35	4 36.48	16 13 15.4	18 48.8	0.055922	21 18 7 33	
24	3 25 49.04	4 37.69	16 31 44.8	18 29.4	0.058605	21 19 7 35	
25	3 30 27.93	4 38.89	16 49 54.3	18 9.5	0.061262	21 20 7 37	
26	3 35 8.01	+4 40.08	+17 7 42.8	+17 48.5	0.063890	21 21 7 39	
27	3 39 49.30	4 41.29	17 25 9.8	17 27.0	0.066489	21 21 7 41	
28	3 44 31.80	4 42.50	17 42 14.6	17 4.8	0.069062	21 22 7 43	
29	3 49 15.51	4 43.71	17 58 56.7	16 42.1	0.071607	21 23 7 44	
30	3 54 0.42	4 44.91	18 15 15.1	16 18.4	0.074126	21 24 7 46	
Juli	1	3 58 46.50	+4 46.08	+18 31 9.3	+15 54.2	0.076617	21 25 7 48
	2	4 3 33.75	4 47.25	18 46 38.4	15 29.1	0.079081	21 25 7 50
	3	4 8 22.18	4 48.43	19 1 42.2	15 3.8	0.081517	21 26 7 51
	4	4 13 11.77	4 49.59	19 16 19.6	14 37.4	0.083929	21 27 7 53
	5	4 18 2.50	4 50.73	19 30 30.1	14 10.5	0.086313	21 28 7 54
	6	4 22 54.34	+4 51.84	+19 44 13.2	+13 43.1	0.088672	21 29 7 56
	7	4 27 47.29	4 52.95	19 57 28.1	13 14.9	0.091004	21 30 7 57
	8	4 32 41.31	4 54.02	20 10 14.3	12 46.2	0.093312	21 31 7 59
	9	4 37 36.40	4 55.09	20 22 31.1	12 16.8	0.095594	21 32 8 0
	10	4 42 32.53	4 56.13	20 34 18.0	11 46.9	0.097852	21 33 8 2

Wahrer geocentrischer Ort.

Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen	
Juli	9	4 ^h 37 ^m 36.40		+20° 22' 31.1		0.095594	21 ^h 32 ^m 8 ^s 0 ^m		
	10	4 42 32.53	+4 56.13	20 34 18.0	+11 46.9	0.097852	21 33 8 2		
	11	4 47 29.68	4 57.15	20 45 34.5	11 16.5	0.100086	21 34 8 3		
	12	4 52 27.82	4 58.14	20 56 19.9	10 45.4	0.102295	21 35 8 4		
	13	4 57 26.93	4 59.11	21 6 33.7	10 13.8	0.104480	21 36 8 5		
	14	5 2 27.00	+5 0.07	+21 16 15.5	+9 41.8	0.106642	21 37 8 7		
	15	5 7 27.98	5 0.98	21 25 24.6	9 9.1	0.108780	21 38 8 8		
	16	5 12 29.85	5 1.87	21 34 0.6	8 36.0	0.110896	21 39 8 9		
	17	5 17 32.58	5 2.73	21 42 3.1	8 2.5	0.112988	21 40 8 10		
	18	5 22 36.14	5 3.56	21 49 31.6	7 28.5	0.115057	21 41 8 11		
	19	5 27 40.50	+5 4.36	+21 56 25.6	+6 54.0	0.117104	21 42 8 11		
	20	5 32 45.60	5 5.10	22 2 44.7	6 19.1	0.119128	21 43 8 12		
	21	5 37 51.42	5 5.82	22 8 28.5	5 43.8	0.121131	21 45 8 13		
	22	5 42 57.92	5 6.50	22 13 36.6	5 8.1	0.123110	21 46 8 13		
	23	5 48 5.06	5 7.14	22 18 8.9	4 32.3	0.125067	21 47 8 14		
	24	5 53 12.80	+5 7.74	+22 22 4.8	+3 55.9	0.127002	21 48 8 15		
	25	5 58 21.09	5 8.29	22 25 23.9	3 19.1	0.128917	21 49 8 15		
	26	6 3 29.88	5 8.79	22 28 6.2	2 42.3	0.130808	21 50 8 15		
	27	6 8 39.14	5 9.26	22 30 11.4	2 5.2	0.132677	21 52 8 16		
	28	6 13 48.82	5 9.68	22 31 39.2	1 27.8	0.134527	21 53 8 16		
	29	6 18 58.85	+5 10.03	+22 32 29.4	+0 50.2	0.136353	21 54 8 16		
	30	6 24 9.19	5 10.34	22 32 41.8	+0 12.4	0.138157	21 56 8 16		
	31	6 29 19.79	5 10.60	22 32 16.3	-0 25.5	0.139941	21 57 8 16		
	Aug.	1	6 34 30.60	5 10.81	22 31 12.8	1 3.5	0.141702	21 58 8 16	
		2	6 39 41.56	5 10.96	22 29 31.2	1 41.6	0.143442	21 59 8 15	
		3	6 44 52.62	+5 11.06	+22 27 11.4	-2 19.8	0.145162	22 1 8 15	
		4	6 50 3.72	5 11.10	22 24 13.4	2 58.0	0.146860	22 2 8 15	
		5	6 55 14.81	5 11.09	22 20 37.1	3 36.3	0.148537	22 3 8 14	
6		7 0 25.85	5 11.04	22 16 22.7	4 14.4	0.150195	22 4 8 14		
7		7 5 36.77	5 10.92	22 11 30.1	4 52.6	0.151831	22 5 8 13		
8		7 10 47.53	+5 10.76	+22 5 59.5	-5 30.6	0.153448	22 7 8 13		
9		7 15 58.10	5 10.57	21 59 50.9	6 8.6	0.155045	22 8 8 12		
10		7 21 8.40	5 10.30	21 53 4.4	6 46.5	0.156622	22 9 8 11		
11		7 26 18.42	5 10.02	21 45 40.2	7 24.2	0.158179	22 10 8 10		
12		7 31 28.10	5 9.68	21 37 38.6	8 1.6	0.159718	22 11 8 9		
13		7 36 37.39	+5 9.29	+21 28 59.6	-8 39.0	0.161237	22 13 8 8		
14		7 41 46.26	5 8.87	21 19 43.5	9 16.1	0.162737	22 14 8 7		
15		7 46 54.68	5 8.42	21 9 50.5	9 53.0	0.164218	22 15 8 6		
16		7 52 2.60	5 7.92	20 59 20.9	10 29.6	0.165682	22 16 8 5		
17		7 57 9.98	5 7.38	20 48 15.0	11 5.9	0.167125	22 17 8 3		

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Aug. 16	^h 7 ^m 52 ^s 2.60		+20° 59' 20.9"		0.165682	22 ^h 16 ^m	8 ^h 5 ^m
17	7 57 9.98	+5 7.38	20 48 15.0	-11 5.9	0.167125	22 17	8 3
18	8 2 16.80	5 6.82	20 36 33.2	11 41.8	0.168550	22 19	8 2
19	8 7 23.02	5 6.22	20 24 15.7	12 17.5	0.169958	22 20	8 0
20	8 12 28.62	5 5.60	20 11 22.9	12 52.8	0.171348	22 21	7 59
21	8 17 33.56	+5 4.94	+19 57 55.3	-13 27.6	0.172719	22 22	7 58
22	8 22 37.82	5 4.26	19 43 53.2	14 2.1	0.174071	22 23	7 56
23	8 27 41.38	5 3.56	19 29 16.9	14 36.3	0.175406	22 24	7 54
24	8 32 44.20	5 2.82	19 14 7.0	15 9.9	0.176724	22 26	7 53
25	8 37 46.28	5 2.08	18 58 23.9	15 43.1	0.178023	22 27	7 51
26	8 42 47.59	+5 1.31	+18 42 8.2	-16 15.7	0.179304	22 28	7 49
27	8 47 48.09	5 0.50	18 25 20.3	16 47.9	0.180568	22 29	7 47
28	8 52 47.79	4 59.70	18 8 0.8	17 19.5	0.181814	22 30	7 45
29	8 57 46.67	4 58.88	17 50 10.1	17 50.7	0.183041	22 31	7 43
30	9 2 44.71	4 58.04	17 31 48.9	18 21.2	0.184251	22 32	7 41
31	9 7 41.90	+4 57.19	+17 12 57.7	-18 51.2	0.185443	22 33	7 39
Sept. 1	9 12 38.22	4 56.32	16 53 37.1	19 20.6	0.186618	22 34	7 37
2	9 17 33.67	4 55.45	16 33 47.7	19 49.4	0.187774	22 35	7 35
3	9 22 28.24	4 54.57	16 13 29.9	20 17.8	0.188914	22 36	7 33
4	9 27 21.93	4 53.69	15 52 44.6	20 45.3	0.190037	22 37	7 31
5	9 32 14.74	+4 52.81	+15 31 32.4	-21 12.2	0.191142	22 38	7 29
6	9 37 6.66	4 51.92	15 9 53.8	21 38.6	0.192231	22 39	7 27
7	9 41 57.72	4 51.06	14 47 49.4	22 4.4	0.193302	22 40	7 25
8	9 46 47.89	4 50.17	14 25 20.0	22 29.4	0.194358	22 40	7 22
9	9 51 37.21	4 49.32	14 2 26.1	22 53.9	0.195398	22 41	7 20
10	9 56 25.67	+4 48.46	+13 39 8.5	-23 17.6	0.196420	22 42	7 18
11	10 1 13.29	4 47.62	13 15 27.7	23 40.8	0.197428	22 43	7 15
12	10 6 0.08	4 46.79	12 51 24.4	24 3.3	0.198419	22 44	7 13
13	10 10 46.06	4 45.98	12 26 59.4	24 25.0	0.199395	22 45	7 11
14	10 15 31.25	4 45.19	12 2 13.2	24 46.2	0.200354	22 46	7 8
15	10 20 15.67	+4 44.42	+11 37 6.5	-25 6.7	0.201299	22 46	7 6
16	10 24 59.34	4 43.67	11 11 40.1	25 26.4	0.202228	22 47	7 3
17	10 29 42.27	4 42.93	10 45 54.5	25 45.6	0.203141	22 48	7 1
18	10 34 24.50	4 42.23	10 19 50.6	26 3.9	0.204040	22 49	6 59
19	10 39 6.06	4 41.56	9 53 28.9	26 21.7	0.204925	22 50	6 56
20	10 43 46.96	+4 40.90	+ 9 26 50.1	-26 38.8	0.205793	22 50	6 54
21	10 48 27.24	4 40.28	8 59 55.0	26 55.1	0.206646	22 51	6 51
22	10 53 6.93	4 39.69	8 32 44.3	27 10.7	0.207484	22 52	6 49
23	10 57 46.05	4 39.12	8 5 18.6	27 25.7	0.208308	22 52	6 46
24	11 2 24.63	4 38.58	7 37 38.7	27 39.9	0.209118	22 53	6 44

Wahrer geocentrischer Ort.

Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
Sept. 23	10 ^h 57 ^m 46. ^s 05		+ 8° 5' 18.6		0.208308	22 ^h 52 ^m	6 ^h 46 ^m
24	11 2 24.63	+4 38.58	7 37 38.7	-27 39.9	0.209118	22 53	6 44
25	11 7 2.71	4 38.08	7 9 45.3	27 53.4	0.209912	22 54	6 41
26	11 11 40.32	4 37.61	6 41 39.0	28 6.3	0.210690	22 54	6 39
27	11 16 17.47	4 37.15	6 13 20.7	28 18.3	0.211454	22 55	6 36
28	11 20 54.22	+4 36.75	+ 5 44 51.1	-28 29.6	0.212203	22 56	6 34
29	11 25 30.59	4 36.37	5 16 10.8	28 40.3	0.212937	22 56	6 31
30	11 30 6.61	4 36.02	4 47 20.6	28 50.2	0.213657	22 57	6 29
Oct. 1	11 34 42.30	4 35.69	4 18 21.3	28 59.3	0.214361	22 58	6 26
2	11 39 17.71	4 35.41	3 49 13.8	29 7.5	0.215052	22 58	6 24
3	11 43 52.87	+4 35.16	+ 3 19 58.6	-29 15.2	0.215728	22 59	6 21
4	11 48 27.82	4 34.95	2 50 36.4	29 22.2	0.216390	23 0	6 18
5	11 53 2.59	4 34.77	2 21 8.0	29 28.4	0.217037	23 0	6 16
6	11 57 37.22	4 34.63	1 51 34.1	29 33.9	0.217669	23 1	6 13
7	12 2 11.75	4 34.53	1 21 55.5	29 38.6	0.218290	23 2	6 11
8	12 6 46.21	+4 34.46	+ 0 52 12.9	-29 42.6	0.218895	23 2	6 8
9	12 11 20.65	4 34.44	+ 0 22 27.0	29 45.9	0.219487	23 3	6 6
10	12 15 55.10	4 34.45	- 0 7 21.4	29 48.4	0.220066	23 3	6 3
11	12 20 29.60	4 34.50	0 37 11.6	29 50.2	0.220631	23 4	6 1
12	12 25 4.19	4 34.59	1 7 2.8	29 51.2	0.221182	23 5	5 58
13	12 29 38.93	+4 34.74	- 1 36 54.3	-29 51.5	0.221721	23 5	5 55
14	12 34 13.84	4 34.91	2 6 45.4	29 51.1	0.222249	23 6	5 53
15	12 38 48.97	4 35.13	2 36 35.4	29 50.0	0.222761	23 7	5 50
16	12 43 24.36	4 35.39	3 6 23.4	29 48.0	0.223261	23 7	5 47
17	12 48 0.05	4 35.69	3 36 8.9	29 45.5	0.223749	23 8	5 45
18	12 52 36.08	+4 36.03	- 4 5 50.9	-29 42.0	0.224224	23 9	5 42
19	12 57 12.51	4 36.43	4 35 28.7	29 37.8	0.224686	23 9	5 40
20	13 1 49.37	4 36.86	5 5 1.8	29 33.1	0.225137	23 10	5 37
21	13 6 26.70	4 37.33	5 34 29.2	29 27.4	0.225576	23 11	5 34
22	13 11 4.54	4 37.84	6 3 50.1	29 20.9	0.226002	23 11	5 32
23	13 15 42.93	+4 38.39	- 6 33 3.9	-29 13.8	0.226414	23 12	5 29
24	13 20 21.92	4 38.99	7 2 9.7	29 5.8	0.226815	23 13	5 27
25	13 25 1.53	4 39.61	7 31 6.8	28 57.1	0.227203	23 13	5 24
26	13 29 41.81	4 40.28	7 59 54.4	28 47.6	0.227578	23 14	5 21
27	13 34 22.79	4 40.98	8 28 31.7	28 37.3	0.227942	23 15	5 19
28	13 39 4.50	+4 41.71	- 8 56 57.9	-28 26.2	0.228292	23 16	5 16
29	13 43 46.99	4 42.49	9 25 12.2	28 14.3	0.228631	23 16	5 14
30	13 48 30.27	4 43.28	9 53 13.8	28 1.6	0.228957	23 17	5 11
31	13 53 14.39	4 44.12	10 21 1.9	27 48.1	0.229271	23 18	5 9
Nov. 1	13 57 59.37	4 44.98	10 48 35.7	27 33.8	0.229572	23 19	5 6

Wahrer geocentrischer Ort.

O^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Oct. 31	13 ^h 53 ^m 14.39		—10° 21' 1.9		0.229271	23 ^h 18 ^m	5 ^h 9 ^m
Nov. 1	13 57 59.37	+4 44.98	10 48 35.7	—27 33.8	0.229572	23 19	5 6
2	14 2 45.25	4 45.88	11 15 54.3	27 18.6	0.229861	23 20	5 4
3	14 7 32.05	4 46.80	11 42 57.1	27 2.8	0.230139	23 20	5 1
4	14 12 29.81	4 47.76	12 9 43.3	26 46.2	0.230404	23 21	4 59
5	14 17 8.54	+4 48.73	—12 36 11.9	—26 28.6	0.230658	23 22	4 56
6	14 21 58.28	4 49.74	13 2 22.1	26 10.2	0.230899	23 23	4 54
7	14 26 49.06	4 50.78	13 28 13.3	25 51.2	0.231130	23 24	4 51
8	14 31 40.90	4 51.84	13 53 44.5	25 31.2	0.231348	23 25	4 49
9	14 36 33.81	4 52.91	14 18 55.0	25 10.5	0.231555	23 26	4 46
10	14 41 27.82	+4 54.01	—14 43 43.9	—24 48.9	0.231752	23 27	4 44
11	14 46 22.96	4 55.14	15 8 10.5	24 26.6	0.231937	23 28	4 41
12	14 51 19.24	4 56.28	15 32 14.0	24 3.5	0.232110	23 29	4 39
13	14 56 16.68	4 57.44	15 55 53.4	23 39.4	0.232274	23 30	4 37
14	15 1 15.29	4 58.61	16 19 8.2	23 14.8	0.232427	23 31	4 34
15	15 6 15.10	+4 59.81	—16 41 57.4	—22 49.2	0.232568	23 32	4 32
16	15 11 16.11	5 1.01	17 4 20.3	22 22.9	0.232699	23 33	4 30
17	15 16 18.34	5 2.23	17 26 16.1	21 55.8	0.232820	23 34	4 27
18	15 21 21.79	5 3.45	17 47 43.9	21 27.8	0.232930	23 35	4 25
19	15 26 26.47	5 4.68	18 8 43.2	20 59.3	0.233030	23 36	4 23
20	15 31 32.39	+5 5.92	—18 29 12.9	—20 29.7	0.233118	23 37	4 21
21	15 36 39.54	5 7.15	18 49 12.4	19 59.5	0.233197	23 39	4 19
22	15 41 47.93	5 8.39	19 8 41.0	19 28.6	0.233264	23 40	4 17
23	15 46 57.54	5 9.61	19 27 37.9	18 56.9	0.233322	23 41	4 15
24	15 52 8.37	5 10.83	19 46 2.3	18 24.4	0.233368	23 42	4 13
25	15 57 20.40	+5 12.03	—20 3 53.4	—17 51.1	0.233403	23 44	4 11
26	16 2 33.63	5 13.23	20 21 10.7	17 17.3	0.233428	23 45	4 9
27	16 7 48.02	5 14.39	20 37 53.4	16 42.7	0.233442	23 46	4 7
28	16 13 3.56	5 15.54	20 54 0.7	16 7.3	0.233445	23 47	4 5
29	16 18 20.23	5 16.67	21 9 31.8	15 31.1	0.233437	23 49	4 3
30	16 23 37.99	+5 17.76	—21 24 26.3	—14 54.5	0.233419	23 50	4 2
Dec. 1	16 28 56.83	5 18.84	21 38 43.5	14 17.2	0.233390	23 51	4 0
2	16 34 16.70	5 19.87	21 52 22.8	13 39.3	0.233352	23 53	3 58
3	16 39 37.57	5 20.87	22 5 23.5	13 0.7	0.233301	23 54	3 57
4	16 44 59.40	5 21.83	22 17 45.2	12 21.7	0.233240	23 56	3 55
5	16 50 22.15	+5 22.75	—22 29 27.2	—11 42.0	0.233170	23 57	3 54
6	16 55 45.79	5 23.64	22 40 28.8	11 1.6	0.233088	23 59	3 53
7	17 1 10.26	5 24.47	22 50 49.7	11 20.9	0.232997	0 0	3 52
8	17 6 35.52	5 25.26	23 0 29.6	9 39.9	0.232896	0 2	3 50
9	17 12 1.51	5 25.99	23 9 27.7	8 58.1	0.232783	0 3	3 49

Wahrer geocentrischer Ort.

Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
Dec. 8	17 ^h 6 ^m 35.52		−23° 0' 29.6		0.232896	0 ^h 2 ^m	3 50 ^m <small>20 22</small>
9	17 12 1.51	+5 25.99	23 9 27.7	−8 58.1	0.232783	0 3	3 49
10	17 17 28.20	5 26.69	23 17 43.7	8 16.0	0.232660	0 4	3 48
11	17 22 55.52	5 27.32	23 25 17.2	7 33.5	0.232528	0 6	3 47
12	17 28 23.42	5 27.90	23 32 7.9	6 50.7	0.232387	0 8	3 46
13	17 33 51.85	+5 28.43	−23 38 15.4	−6 7.5	0.232236	0 9	3 45
14	17 39 20.75	5 28.90	23 43 39.3	5 23.9	0.232074	0 11	3 45
15	17 44 50.07	5 29.32	23 48 19.5	4 40.2	0.231903	0 12	3 44 <small>20 26</small>
16	17 50 19.74	5 29.67	23 52 15.7	3 56.2	0.231723	0 14	3 44
17	17 55 49.71	5 29.97	23 55 27.6	3 11.9	0.231532	0 15	3 44
18	18 1 19.91	+5 30.20	−23 57 55.1	−2 27.5	0.231332	0 17	3 43 <small>20 54</small>
19	18 6 50.29	5 30.38	23 59 38.1	1 43.0	0.231122	0 18	3 43
20	18 12 20.79	5 30.50	24 0 36.4	0 58.3	0.230902	0 20	3 43
21	18 17 51.33	5 30.54	24 0 50.0	−0 13.6	0.230673	0 22	3 43
22	18 23 21.85	5 30.52	24 0 18.8	+0 31.2	0.230435	0 23	3 43 <small>20 50</small>
23	18 28 52.28	+5 30.43	−23 59 2.9	+1 15.9	0.230186	0 25	3 43
24	18 34 22.57	5 30.29	23 57 2.2	2 0.7	0.229927	0 26	3 43
25	18 39 52.65	5 30.08	23 54 16.9	2 45.3	0.229657	0 28	3 44
26	18 45 22.44	5 29.79	23 50 47.0	3 29.9	0.229377	0 29	3 44
27	18 50 51.90	5 29.46	23 46 32.8	4 14.2	0.229087	0 31	3 45
28	18 56 20.93	+5 29.03	−23 41 34.4	+4 58.4	0.228787	0 33	3 45
29	19 1 49.49	5 28.56	23 35 51.9	5 42.5	0.228476	0 34	3 46 <small>20 55</small>
30	19 7 17.51	5 28.02	23 29 25.7	6 26.2	0.228155	0 36	3 47
31	19 12 44.94	5 27.43	23 22 16.0	7 9.7	0.227824	0 37	3 48
32	19 18 11.72	5 26.78	23 14 23.1	7 52.9	0.227483	0 39	3 49
33	19 23 37.77	+5 26.05	−23 5 47.4	+8 35.7	0.227131	0 40	3 50

Wahrer geocentrischer Ort.

$^{\circ}$ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Jan. 0	20 ^h 4 ^m 45.02		—21 ^o 30' 26.6		0.357017	1 ^h 28 ^m	4 ^h 1 ^m
1	20 8 2.74	+3 17.72	21 20 37.8	+9 48.8	0.357359	1 27	4 2
2	20 11 20.13	3 17.39	21 10 34.6	10 3.2	0.357698	1 27	4 3
3	20 14 37.19	3 17.06	21 0 17.1	10 17.5	0.358035	1 26	4 4
4	20 17 53.90	3 16.71	20 49 45.4	10 31.7	0.358370	1 25	4 6
5	20 21 10.26	+3 16.36	—20 38 59.6	+10 45.8	0.358702	1 25	4 7
6	20 24 26.26	3 16.00	20 28 0.0	10 59.6	0.359032	1 24	4 8
7	20 27 41.89	3 15.63	20 16 46.7	11 13.3	0.359360	1 23	4 9
8	20 30 57.14	3 15.25	20 5 19.9	11 26.8	0.359686	1 23	4 10
9	20 34 12.00	3 14.86	19 53 39.7	11 40.2	0.360010	1 22	4 12
10	20 37 26.47	+3 14.47	—19 41 46.3	+11 53.4	0.360331	1 21	4 13
11	20 40 40.54	3 14.07	19 29 39.9	12 6.4	0.360650	1 21	4 14
12	20 43 54.20	3 13.66	19 17 20.7	12 19.2	0.360967	1 20	4 16
13	20 47 7.44	3 13.24	19 4 48.8	12 31.9	0.361281	1 19	4 17
14	20 50 20.26	3 12.82	18 52 4.5	12 44.3	0.361593	1 18	4 18
15	20 53 32.65	+3 12.39	—18 39 8.0	+12 56.5	0.361903	1 18	4 20
16	20 56 44.60	3 11.95	18 25 59.3	13 8.7	0.362212	1 17	4 21
17	20 59 56.11	3 11.51	18 12 38.8	13 20.5	0.362518	1 16	4 23
18	21 3 7.18	3 11.07	17 59 6.5	13 32.3	0.362822	1 15	4 24
19	21 6 17.81	3 10.63	17 45 22.8	13 43.7	0.363125	1 15	4 25
20	21 9 27.98	+3 10.17	—17 31 27.8	+13 55.0	0.363426	1 14	4 27
21	21 12 37.70	3 9.72	17 17 21.6	14 6.2	0.363725	1 13	4 28
22	21 15 46.96	3 9.26	17 3 4.5	14 17.1	0.364023	1 12	4 30
23	21 18 55.78	3 8.82	16 48 36.6	14 27.9	0.364320	1 12	4 31
24	21 22 4.15	3 8.37	16 33 58.2	14 38.4	0.364615	1 11	4 33
25	21 25 12.07	+3 7.92	—16 19 9.4	+14 48.8	0.364909	1 10	4 34
26	21 28 19.54	3 7.47	16 4 10.5	14 58.9	0.365201	1 9	4 36
27	21 31 26.57	3 7.03	15 49 1.6	15 8.9	0.365492	1 8	4 37
28	21 34 33.15	3 6.58	15 33 42.9	15 18.7	0.365782	1 7	4 39
29	21 37 39.30	3 6.15	15 18 14.6	15 28.3	0.366071	1 7	4 40
30	21 40 45.01	+3 5.71	—15 2 37.0	+15 37.6	0.366358	1 6	4 42
31	21 43 50.28	3 5.27	14 46 50.2	15 46.8	0.366643	1 5	4 44
Febr. 1	21 46 55.13	3 4.85	14 30 54.5	15 55.7	0.366927	1 4	4 45
2	21 49 59.54	3 4.41	14 14 50.0	16 4.5	0.367210	1 3	4 47
3	21 53 3.52	3 3.98	13 58 37.0	16 13.0	0.367491	1 2	4 48
4	21 56 7.07	+3 3.55	—13 42 15.7	+16 21.3	0.367770	1 1	4 50
5	21 59 10.20	3 3.13	13 25 46.2	16 29.5	0.368048	1 1	4 51
6	22 2 12.91	3 2.71	13 9 8.9	16 37.3	0.368324	1 0	4 53
7	22 5 15.20	3 2.29	12 52 24.0	16 44.9	0.368599	0 59	4 55
8	22 8 17.07	3 1.87	12 35 31.6	16 52.4	0.368871	0 58	4 56

Wahrer geocentrischer Ort.

\circ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Febr. 7	22 ^h 5 ^m 15.20		-12° 52' 24.0"		0.368599	0 ^h 59 ^m	4 55 ^m
8	22 8 17.07	+3 1.87	12 35 31.6	+16 52.4	0.368871	0 58	4 56
9	22 11 18.53	3 1.46	12 18 31.9	16 59.7	0.369142	0 57	4 58
10	22 14 19.58	3 1.05	12 1 25.3	17 6.6	0.369412	0 56	4 59
11	22 17 20.22	3 0.64	11 44 11.9	17 13.4	0.369679	0 55	5 1
12	22 20 20.46	+3 0.24	-11 26 51.9	+17 20.0	0.369945	0 54	5 3
13	22 23 20.29	2 59.83	11 9 25.6	17 26.3	0.370210	0 53	5 4
14	22 26 19.73	2 59.44	10 51 53.1	17 32.5	0.370472	0 52	5 6
15	22 29 18.78	2 59.05	10 34 14.8	17 38.3	0.370733	0 51	5 7
16	22 32 17.43	2 58.65	10 16 30.8	17 44.0	0.370993	0 50	5 9
17	22 35 15.70	+2 58.27	- 9 58 41.2	+17 49.6	0.371251	0 49	5 11
18	22 38 13.60	2 57.90	9 40 46.4	17 54.8	0.371508	0 48	5 12
19	22 41 11.12	2 57.52	9 22 46.5	17 59.9	0.371763	0 47	5 14
20	22 44 8.29	2 57.17	9 4 41.8	18 4.7	0.372017	0 46	5 16
21	22 47 5.10	2 56.81	8 46 32.4	18 9.4	0.372270	0 45	5 17
22	22 50 1.56	+2 56.46	- 8 28 18.5	+18 13.9	0.372522	0 44	5 19
23	22 52 57.68	2 56.12	8 10 0.3	18 18.2	0.372772	0 43	5 21
24	22 55 53.48	2 55.80	7 51 38.0	18 22.3	0.373021	0 42	5 22
25	22 58 48.96	2 55.48	7 33 11.9	18 26.1	0.373269	0 41	5 24
26	23 1 44.13	2 55.17	7 14 42.1	18 29.8	0.373516	0 40	5 26
27	23 4 39.00	+2 54.87	- 6 56 8.8	+18 33.3	0.373761	0 39	5 27
28	23 7 33.57	2 54.57	6 37 32.3	18 36.5	0.374005	0 38	5 29
März 1	23 10 27.86	2 54.29	6 18 52.7	18 39.6	0.374247	0 37	5 31
2	23 13 21.87	2 54.01	6 0 10.2	18 42.5	0.374488	0 36	5 32
3	23 16 15.61	2 53.74	5 41 25.0	18 45.2	0.374727	0 35	5 34
4	23 19 9.09	+2 53.48	- 5 22 37.4	+18 47.6	0.374965	0 34	5 36
5	23 22 2.31	2 53.22	5 3 47.5	18 49.9	0.375201	0 33	5 37
6	23 24 55.29	2 52.98	4 44 55.6	18 51.9	0.375435	0 32	5 39
7	23 27 48.03	2 52.74	4 26 1.8	18 53.8	0.375667	0 31	5 40
8	23 30 40.54	2 52.51	4 7 6.4	18 55.4	0.375897	0 30	5 42
9	23 33 32.82	+2 52.28	- 3 48 9.6	+18 56.8	0.376126	0 29	5 44
10	23 36 24.88	2 52.06	3 29 11.5	18 58.1	0.376352	0 28	5 45
11	23 39 16.73	2 51.85	3 10 12.4	18 59.1	0.376576	0 27	5 47
12	23 42 8.38	2 51.65	2 51 12.5	18 59.9	0.376799	0 25	5 49
13	23 44 59.82	2 51.44	2 32 12.0	19 0.5	0.377019	0 24	5 50
14	23 47 51.07	+2 51.25	- 2 13 11.0	+19 1.0	0.377237	0 23	5 52
15	23 50 42.14	2 51.07	1 54 9.9	19 1.1	0.377453	0 22	5 54
16	23 53 33.02	2 50.88	1 35 8.7	19 1.2	0.377667	0 21	5 55
17	23 56 23.74	2 50.72	1 16 7.7	19 1.0	0.377879	0 20	5 57
18	23 59 14.29	2 50.55	0 57 7.1	19 0.6	0.378090	0 19	5 59

Wahrer geocentrischer Ort.

^h Mittl. Zeit	AR.	Diff.	Decl.	Dir.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
März 17	23 ^h 56 ^m 23.74		— 1° 16' 7.7		0.377879	^h 20 ^m	^h 57 ^m
18	23 59 14.29	+2 50.55	0 57 7.1	+19 0.6	0.378090	0 19	5 59
19	0 2 4.68	2 50.39	0 38 7.0	19 0.1	0.378298	0 18	6 0
20	0 4 54.93	2 50.25	0 19 7.6	18 59.4	0.378505	0 17	6 2
21	0 7 45.05	2 50.12	— 0 0 9.1	18 58.5	0.378709	0 16	6 4
22	0 10 35.03	+2 49.98	+ 0 18 48.3	+18 57.4	0.378912	0 15	6 5
23	0 13 24.90	2 49.87	0 37 44.5	18 56.2	0.379113	0 13	6 7
24	0 16 14.67	2 49.77	0 56 39.2	18 54.7	0.379312	0 12	6 9
25	0 19 4.33	2 49.66	1 15 32.3	18 53.1	0.379509	0 11	6 10
26	0 21 53.91	2 49.58	1 34 23.7	18 51.4	0.379704	0 10	6 12
27	0 24 43.41	+2 49.50	+ 1 53 13.1	+18 49.4	0.379897	0 9	6 13
28	0 27 32.84	2 49.43	2 12 0.4	18 47.3	0.380088	0 8	6 15
29	0 30 22.21	2 49.37	2 30 45.3	18 44.9	0.380277	0 7	6 17
30	0 33 11.54	2 49.33	2 49 27.8	18 42.5	0.380464	0 6	6 18
31	0 36 0.81	2 49.27	3 8 7.7	18 39.9	0.380648	0 4	6 20
April 1	0 38 50.06	+2 49.25	+ 3 26 44.7	+18 37.0	0.380830	0 3	6 22
2	0 41 39.27	2 49.21	3 45 18.8	18 34.1	0.381009	0 2	6 23
3	0 44 28.47	2 49.20	4 3 49.7	18 30.9	0.381186	0 1	6 25
4	0 47 17.66	2 49.19	4 22 17.2	18 27.5	0.381360	0 0	6 27
5	0 50 6.85	2 49.19	4 40 41.2	18 24.0	0.381532	23 59	6 28
6	0 52 56.03	+2 49.18	+ 4 59 1.5	+18 20.3	0.381700	23 58	6 30
7	0 55 45.23	2 49.20	5 17 17.9	18 16.4	0.381865	23 57	6 31
8	0 58 34.43	2 49.20	5 35 30.3	18 12.4	0.382028	23 55	6 33
9	1 1 23.66	2 49.23	5 53 38.4	18 8.1	0.382188	23 54	6 35
10	1 4 12.91	2 49.25	6 11 42.2	18 3.8	0.382344	23 53	6 36
11	1 7 2.18	+2 49.27	+ 6 29 41.3	+17 59.1	0.382498	23 52	6 38
12	1 9 51.49	2 49.31	6 47 35.7	17 54.4	0.382648	23 51	6 39
13	1 12 40.84	2 49.35	7 5 25.2	17 49.5	0.382795	23 50	6 41
14	1 15 30.23	2 49.39	7 23 9.7	17 44.5	0.382939	23 49	6 43
15	1 18 19.67	2 49.44	7 40 48.9	17 39.2	0.383080	23 48	6 44
16	1 21 9.18	+2 49.51	+ 7 58 22.7	+17 33.8	0.383218	23 47	6 46
17	1 23 58.74	2 49.56	8 15 51.0	17 28.3	0.383353	23 45	6 47
18	1 26 48.37	2 49.63	8 33 13.5	17 22.5	0.383485	23 44	6 49
19	1 29 38.08	2 49.71	8 50 30.3	17 16.8	0.383613	23 43	6 50
20	1 32 27.88	2 49.80	9 7 41.0	17 10.7	0.383739	23 42	6 52
21	1 35 17.77	+2 49.89	+ 9 24 45.6	+17 4.6	0.383862	23 41	6 54
22	1 38 7.76	2 49.99	9 41 43.9	16 58.3	0.383981	23 40	6 55
23	1 40 57.86	2 50.10	9 58 35.8	16 51.9	0.384097	23 39	6 57
24	1 43 48.07	2 50.21	10 15 21.1	16 45.3	0.384210	23 38	6 58
25	1 46 38.39	2 50.32	10 31 59.7	16 38.6	0.384320	23 37	7 0

Wahrer geocentrischer Ort.

U^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
April 24	1 ^h 43 ^m 48. ^s 07	^m ^s +2 50.32	+10° 15' 21.1"	+16 38.6	0.384210	23 ^h 38 ^m	6 ^h 58 ^m
25	1 46 38.39	2 50.46	10 31 59.7	16 31.7	0.384320	23 37	7 0
26	1 49 28.85	2 50.59	10 48 31.4	16 24.7	0.384426	23 35	7 1
27	1 52 19.44	2 50.72	11 4 56.1	16 17.6	0.384529	23 34	7 3
28	1 55 10.16	+2 50.86	11 21 13.7	+16 10.3	0.384628	23 33	7 4
29	1 58 1.02	2 51.02	+11 37 24.0	16 2.8	0.384723	23 32	7 6
30	2 0 52.04	2 51.16	11 53 26.8	15 55.3	0.384815	23 31	7 7
Mai 1	2 3 43.20	2 51.32	12 9 22.1	15 47.6	0.384903	23 30	7 9
2	2 6 34.52	2 51.47	12 25 9.7	15 39.7	0.384987	23 29	7 11
3	2 9 25.99	+2 51.65	12 40 49.4	+15 31.7	0.385066	23 28	7 12
4	2 12 17.64	2 51.81	+12 56 21.1	15 23.6	0.385142	23 27	7 14
5	2 15 9.45	2 51.97	13 11 44.7	15 15.3	0.385213	23 26	7 15
6	2 18 1.42	2 52.14	13 27 0.0	15 6.9	0.385280	23 25	7 17
7	2 20 53.56	2 52.30	13 42 6.9	14 58.3	0.385342	23 23	7 18
8	2 23 45.86	+2 52.48	13 57 5.2	+14 49.7	0.385400	23 22	7 20
9	2 26 38.34	2 52.64	+14 11 54.9	14 40.8	0.385453	23 21	7 21
10	2 29 30.98	2 52.81	14 26 35.7	14 31.9	0.385501	23 20	7 22
11	2 32 23.79	2 52.97	14 41 7.6	14 22.7	0.385545	23 19	7 24
12	2 35 16.76	2 53.15	14 55 30.3	14 13.6	0.385585	23 18	7 25
13	2 38 9.91	+2 53.31	15 9 43.9	+14 4.2	0.385619	23 17	7 27
14	2 41 3.22	2 53.49	+15 23 48.1	13 54.7	0.385649	23 16	7 28
15	2 43 56.71	2 53.67	15 37 42.8	13 45.2	0.385675	23 15	7 30
16	2 46 50.38	2 53.83	15 51 28.0	13 35.5	0.385696	23 14	7 31
17	2 49 44.21	2 54.02	16 5 3.5	13 25.7	0.385712	23 13	7 32
18	2 52 38.23	+2 54.19	16 18 29.2	+13 15.7	0.385723	23 12	7 34
19	2 55 32.42	2 54.37	+16 31 44.9	13 5.7	0.385730	23 11	7 35
20	2 58 26.79	2 54.56	16 44 50.6	12 55.6	0.385732	23 10	7 37
21	3 1 21.35	2 54.74	16 57 46.2	12 45.4	0.385729	23 9	7 38
22	3 4 16.09	2 54.93	17 10 31.6	12 35.0	0.385721	23 8	7 39
23	3 7 11.02	+2 55.11	17 23 6.6	+12 24.6	0.385708	23 7	7 41
24	3 10 6.13	2 55.29	+17 35 31.2	12 14.1	0.385690	23 6	7 42
25	3 13 1.42	2 55.48	17 47 45.3	12 3.4	0.385668	23 5	7 43
26	3 15 56.90	2 55.66	17 59 48.7	11 52.7	0.385640	23 4	7 45
27	3 18 52.56	2 55.84	18 11 41.4	11 41.8	0.385606	23 3	7 46
28	3 21 48.40	+2 56.03	18 23 23.2	+11 30.9	0.385568	23 2	7 47
29	3 24 44.43	2 56.21	+18 34 54.1	11 19.9	0.385524	23 1	7 48
30	3 27 40.64	2 56.39	18 46 14.0	11 8.7	0.385474	23 0	7 50
31	3 30 37.03	2 56.57	18 57 22.7	10 57.5	0.385418	22 59	7 51
Juni 1	3 33 33.60	2 56.73	19 8 20.2	10 46.2	0.385357	22 58	7 52
2	3 36 30.33		19 19 6.4		0.385290	22 57	7 53

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Juni	1	^h 3 ^m 33 ^s 33.60		+19° 8' 20.2		0.385357	22 ^m 58 ^h 52. ^m
	2	3 36 30.33	+2 ^m 56.73	19 19 6.4	+10' 46.2	0.385290	22 57 7 53
	3	3 39 27.23	2 56.90	19 29 41.2	10 34.8	0.385217	22 56 7 54
	4	3 42 24.29	2 57.06	19 40 4.6	10 23.4	0.385137	22 55 7 55
	5	3 45 21.51	2 57.22	19 50 16.4	10 11.8	0.385051	22 54 7 57
	6	3 48 18.87	+2 57.36	+20 0 16.5	+10 0.1	0.384958	22 53 7 58
	7	3 51 16.38	2 57.51	20 10 4.9	9 48.4	0.384860	22 52 7 59
	8	3 54 14.02	2 57.64	20 19 41.5	9 36.6	0.384755	22 51 8 0
	9	3 57 11.78	2 57.76	20 29 6.2	9 24.7	0.384643	22 50 8 1
	10	4 0 9.67	2 57.89	20 38 19.0	9 12.8	0.384525	22 49 8 2
	11	4 3 7.69	+2 58.02	+20 47 19.8	+9 0.8	0.384401	22 48 8 3
	12	4 6 5.82	2 58.13	20 56 8.4	8 48.6	0.384270	22 47 8 4
	13	4 9 4.05	2 58.23	21 4 44.9	8 36.5	0.384132	22 46 8 5
	14	4 12 2.38	2 58.33	21 13 9.2	8 24.3	0.383988	22 45 8 6
	15	4 15 0.81	2 58.43	21 21 21.2	8 12.0	0.383838	22 44 8 7
	16	4 17 59.33	+2 58.52	+21 29 20.9	+7 59.7	0.383681	22 43 8 8
	17	4 20 57.94	2 58.61	21 37 8.2	7 47.3	0.383517	22 42 8 9
	18	4 23 56.63	2 58.69	21 44 43.1	7 34.9	0.383347	22 41 8 10
	19	4 26 55.39	2 58.76	21 52 5.5	7 22.4	0.383170	22 40 8 11
	20	4 29 54.23	2 58.84	21 59 15.5	7 10.0	0.382986	22 39 8 12
	21	4 32 53.13	+2 58.90	+22 6 13.0	+6 57.5	0.382795	22 38 8 13
	22	4 35 52.10	2 58.97	22 12 57.8	6 44.8	0.382597	22 37 8 13
	23	4 38 51.12	2 59.02	22 19 30.0	6 32.2	0.382392	22 36 8 14
	24	4 41 50.19	2 59.07	22 25 49.5	6 19.5	0.382181	22 35 8 15
	25	4 44 49.30	2 59.11	22 31 56.4	6 6.9	0.381962	22 34 8 16
	26	4 47 48.44	+2 59.14	+22 37 50.6	+5 54.2	0.381736	22 33 8 16
	27	4 50 47.61	2 59.17	22 43 32.1	5 41.5	0.381502	22 32 8 17
	28	4 53 46.80	2 59.19	22 49 0.8	5 28.7	0.381261	22 31 8 18
	29	4 56 46.00	2 59.20	22 54 16.7	5 15.9	0.381012	22 30 8 18
	30	4 59 45.20	2 59.20	22 59 19.9	5 3.2	0.380755	22 29 8 19
Juli	1	5 2 44.39	+2 59.19	+23 4 10.3	+4 50.4	0.380490	22 28 8 20
	2	5 5 43.57	2 59.18	23 8 47.8	4 37.5	0.380217	22 28 8 20
	3	5 8 42.72	2 59.15	23 13 12.5	4 24.7	0.379936	22 27 8 21
	4	5 11 41.83	2 59.11	23 17 24.4	4 11.9	0.379646	22 26 8 21
	5	5 14 40.89	2 59.06	23 21 23.5	3 59.1	0.379348	22 25 8 22
	6	5 17 39.88	+2 58.99	+23 25 9.7	+3 46.2	0.379041	22 24 8 22
	7	5 20 38.79	2 58.91	23 28 43.1	3 33.4	0.378726	22 23 8 23
	8	5 23 37.62	2 58.83	23 32 3.7	3 20.6	0.378403	22 22 8 23
	9	5 26 36.36	2 58.74	23 35 11.5	3 7.8	0.378071	22 21 8 24
	10	5 29 34.99	2 58.63	23 38 6.5	2 55.0	0.377731	22 20 8 24

Wahrer geocentrischer Ort.

	^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen	
Juli	9	5 ^h 26 ^m 36. ^s 36		+23° 35' 11.5"		0.378071	22 ^h 21 ^m	8 ^h 24 ^m	
	10	5 29 34.99	+2 58.63	23 38 6.5	+2 55.0	0.377731	22 20	8 24	
	11	5 32 33.50	2 58.51	23 40 48.8	2 42.3	0.377382	22 19	8 24	
	12	5 35 31.89	2 58.39	23 43 18.3	2 29.5	0.377025	22 18	8 25	
	13	5 38 30.15	2 58.26	23 45 35.0	2 16.7	0.376659	22 17	8 25	
	14	5 41 28.26	+2 58.11	+23 47 39.0	+2 4.0	0.376284	22 16	8 25	
	15	5 44 26.23	2 57.97	23 49 30.3	1 51.3	0.375900	22 15	8 26	
	16	5 47 24.04	2 57.81	23 51 9.0	1 38.7	0.375508	22 14	8 26	
	17	5 50 21.68	2 57.64	23 52 35.0	1 26.0	0.375107	22 13	8 26	
	18	5 53 19.15	2 57.47	23 53 48.5	1 13.5	0.374698	22 12	8 26	
	19	5 56 16.44	+2 57.29	+23 54 49.4	+1 0.9	0.374280	22 11	8 26	
	20	5 59 13.54	2 57.10	23 55 37.7	0 48.3	0.373852	22 10	8 26	
	21	6 2 10.44	2 56.90	23 56 13.6	0 35.9	0.373415	22 9	8 26	
	22	6 5 7.14	2 56.70	23 56 37.0	0 23.4	0.372969	22 8	8 26	
	23	6 8 3.63	2 56.49	23 56 48.1	+0 11.1	0.372514	22 7	8 26	
	24	6 10 59.90	+2 56.27	+23 56 46.8	-0 1.3	0.372050	22 6	8 26	
	25	6 13 55.94	2 56.04	23 56 33.3	0 13.5	0.371576	22 5	8 26	
	26	6 16 51.74	2 55.80	23 56 7.5	0 25.8	0.371092	22 4	8 26	
	27	6 19 47.30	2 55.56	23 55 29.5	0 38.0	0.370599	22 3	8 26	
	28	6 22 42.60	2 55.30	23 54 39.5	0 50.0	0.370096	22 2	8 26	
	29	6 25 37.64	+2 55.04	+23 53 37.4	-1 2.1	0.369582	22 1	8 26	
	30	6 28 32.41	2 54.77	23 52 23.4	1 14.0	0.369058	22 0	8 26	
	31	6 31 26.89	2 54.48	23 50 57.5	1 25.9	0.368524	21 59	8 26	
	Aug.	1	6 34 21.08	2 54.19	23 49 19.7	1 37.8	0.367979	21 58	8 26
		2	6 37 14.96	2 53.88	23 47 30.2	1 49.5	0.367424	21 57	8 25
		3	6 40 8.53	+2 53.57	+23 45 29.1	-2 1.1	0.366858	21 56	8 25
		4	6 43 1.77	2 53.24	23 43 16.4	2 12.7	0.366282	21 55	8 25
		5	6 45 54.67	2 52.90	23 40 52.1	2 24.3	0.365695	21 54	8 25
6		6 48 47.23	2 52.56	23 38 16.4	2 35.7	0.365097	21 53	8 24	
7		6 51 39.43	2 52.20	23 35 29.4	2 47.0	0.364488	21 52	8 24	
8		6 54 31.27	+2 51.84	+23 32 31.2	-2 58.2	0.363868	21 50	8 23	
9		6 57 22.73	2 51.46	23 29 21.8	3 9.4	0.363238	21 49	8 23	
10		7 0 13.82	2 51.09	23 26 1.3	3 20.5	0.362597	21 48	8 23	
11		7 3 4.53	2 50.71	23 22 29.8	3 31.5	0.361944	21 47	8 22	
12		7 5 54.85	2 50.32	23 18 47.4	3 42.4	0.361280	21 46	8 22	
13		7 8 44.78	+2 49.93	+23 14 54.3	-3 53.1	0.360606	21 45	8 21	
14		7 11 34.31	2 49.53	23 10 50.5	4 3.8	0.359921	21 44	8 21	
15		7 14 23.43	2 49.12	23 6 36.0	4 14.5	0.359224	21 43	8 20	
16		7 17 12.14	2 48.71	23 2 11.0	4 25.0	0.358517	21 42	8 19	
17		7 20 0.43	2 48.29	22 57 35.6	4 35.4	0.357798	21 40	8 19	

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Aug. 16	^h 7 ^m 17 ^a 12.14		+23° 2' 11.0		0.358517	^h 21 ^m 42	^h 8 ^m 19
17	7 20 0.43	+2 48.29	22 57 35.6	-4 35.4	0.357798	21 40	8 19
18	7 22 48.31	2 47.88	22 52 49.9	4 45.7	0.357067	21 39	8 18
19	7 25 35.77	2 47.46	22 47 53.9	4 56.0	0.356325	21 38	8 18
20	7 28 22.80	2 47.03	22 42 47.8	5 6.1	0.355571	21 37	8 17
21	7 31 9.41	+2 46.61	+22 37 31.8	-5 16.0	0.354806	21 36	8 16
22	7 33 55.58	2 46.17	22 32 5.8	5 26.0	0.354029	21 35	8 16
23	7 36 41.32	2 45.74	22 26 30.0	5 35.8	0.353240	21 33	8 15
24	7 39 26.61	2 45.29	22 20 44.6	5 45.4	0.352439	21 32	8 14
25	7 42 11.46	2 44.85	22 14 49.6	5 55.0	0.351625	21 31	8 14
26	7 44 55.86	+2 44.40	+22 8 45.1	-6 4.5	0.350799	21 30	8 13
27	7 47 39.80	2 43.94	22 2 31.3	6 13.8	0.349960	21 29	8 12
28	7 50 23.28	2 43.48	21 56 8.3	6 23.0	0.349108	21 27	8 11
29	7 53 6.29	2 43.01	21 49 36.2	6 32.1	0.348243	21 26	8 11
30	7 55 48.82	2 42.53	21 42 55.2	6 41.0	0.347366	21 25	8 10
31	7 58 30.88	+2 42.06	+21 36 5.3	-6 49.9	0.346475	21 24	8 9
Sept. 1	8 1 12.45	2 41.57	21 29 6.7	6 58.6	0.345571	21 22	8 8
2	8 3 53.53	2 41.08	21 21 59.6	7 7.1	0.344653	21 21	8 7
3	8 6 34.11	2 40.58	21 14 44.0	7 15.6	0.343722	21 20	8 6
4	8 9 14.19	2 40.08	21 7 20.0	7 24.0	0.342778	21 19	8 6
5	8 11 53.77	+2 39.58	+20 59 47.8	-7 32.2	0.341821	21 17	8 5
6	8 14 32.84	2 39.07	20 52 7.5	7 40.3	0.340850	21 16	8 4
7	8 17 11.40	2 38.56	20 44 19.3	7 48.2	0.339865	21 15	8 3
8	8 19 49.45	2 38.05	20 36 23.2	7 56.1	0.338867	21 14	8 2
9	8 22 26.99	2 37.54	20 28 19.4	8 3.8	0.337855	21 12	8 1
10	8 25 4.01	+2 37.02	+20 20 8.0	-8 11.4	0.336829	21 11	8 0
11	8 27 40.52	2 36.51	20 11 49.2	8 18.8	0.335790	21 10	7 59
12	8 30 16.51	2 35.99	20 3 23.0	8 26.2	0.334737	21 8	7 58
13	8 32 51.99	2 35.48	19 54 49.5	8 33.5	0.333670	21 7	7 57
14	8 35 26.95	2 34.96	19 46 8.9	8 40.6	0.332589	21 5	7 56
15	8 38 1.40	+2 34.45	+19 37 21.3	-8 47.6	0.331494	21 4	7 55
16	8 40 35.33	2 33.93	19 28 26.9	8 54.4	0.330385	21 3	7 54
17	8 43 8.76	2 33.43	19 19 25.7	9 1.2	0.329261	21 1	7 53
18	8 45 41.67	2 32.91	19 10 17.8	9 7.9	0.328123	21 0	7 52
19	8 48 14.07	2 32.40	19 1 3.4	9 14.4	0.326970	20 59	7 51
20	8 50 45.95	+2 31.88	+18 51 42.7	-9 20.7	0.325803	20 57	7 50
21	8 53 17.33	2 31.38	18 42 15.8	9 26.9	0.324621	20 56	7 49
22	8 55 48.20	2 30.87	18 32 42.7	9 33.1	0.323423	20 54	7 48
23	8 58 18.56	2 30.36	18 23 3.6	9 39.1	0.322210	20 53	7 47
24	9 0 48.40	2 29.84	18 13 18.7	9 44.9	0.320982	20 51	7 46

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Sept. 23	8 ^h 58 ^m 18.56		+18° 23' 3.6"		0.322210	20 ^h 53 ^m	7 47 ^m
24	9 0 48.40	+2 29.84	18 13 18.7	- 9 44.9	0.320982	20 51	7 46
25	9 3 17.73	2 29.33	18 3 28.0	9 50.7	0.319738	20 50	7 45
26	9 5 46.55	2 28.82	17 53 31.8	9 56.2	0.318478	20 49	7 44
27	9 8 14.85	2 28.30	17 43 30.1	10 1.7	0.317203	20 47	7 43
28	9 10 42.62	+2 27.77	+17 33 23.1	-10 7.0	0.315911	20 46	7 42
29	9 13 9.87	2 27.25	17 23 11.0	10 12.1	0.314603	20 44	7 41
30	9 15 36.60	2 26.73	17 12 53.8	10 17.2	0.313278	20 43	7 40
Oct. 1	9 18 2.80	2 26.20	17 2 31.8	10 22.0	0.311937	20 41	7 38
2	9 20 28.47	2 25.67	16 52 5.0	10 26.8	0.310580	20 40	7 37
3	9 22 53.61	+2 25.14	+16 41 33.6	-10 31.4	0.309206	20 38	7 36
4	9 25 18.22	2 24.61	16 30 57.8	10 35.8	0.307816	20 36	7 35
5	9 27 42.30	2 24.08	16 20 17.6	10 40.2	0.306409	20 35	7 34
6	9 30 5.85	2 23.55	16 9 33.1	10 44.5	0.304985	20 33	7 33
7	9 32 28.87	2 23.02	15 58 44.6	10 48.5	0.303544	20 32	7 32
8	9 34 51.36	+2 22.49	+15 47 52.1	-10 52.5	0.302087	20 30	7 31
9	9 37 13.33	2 21.97	15 36 55.7	10 56.4	0.300613	20 29	7 30
10	9 39 34.77	2 21.44	15 25 55.5	11 0.2	0.299122	20 27	7 28
11	9 41 55.69	2 20.92	15 14 51.8	11 3.7	0.297614	20 26	7 27
12	9 44 16.08	2 20.39	15 3 44.6	11 7.2	0.296089	20 24	7 26
13	9 46 35.96	+2 19.88	+14 52 34.0	-11 10.6	0.294546	20 22	7 25
14	9 48 55.32	2 19.36	14 41 20.2	11 13.8	0.292986	20 21	7 24
15	9 51 14.17	2 18.85	14 30 3.3	11 16.9	0.291409	20 19	7 23
16	9 53 32.51	2 18.34	14 18 43.3	11 20.0	0.289814	20 17	7 22
17	9 55 50.33	2 17.82	14 7 20.5	11 22.8	0.288202	20 16	7 21
18	9 58 7.65	+2 17.32	+13 55 54.9	-11 25.6	0.286571	20 14	7 19
19	10 0 24.47	2 16.82	13 44 26.7	11 28.2	0.284922	20 12	7 18
20	10 2 40.78	2 16.31	13 32 56.0	11 30.7	0.283254	20 11	7 17
21	10 4 56.59	2 15.81	13 21 22.9	11 33.1	0.281568	20 9	7 16
22	10 7 11.90	2 15.31	13 9 47.5	11 35.4	0.279863	20 7	7 15
23	10 9 26.70	+2 14.80	+12 58 10.1	-11 37.4	0.278139	20 6	7 14
24	10 11 40.99	2 14.29	12 46 30.7	11 39.4	0.276396	20 4	7 13
25	10 13 54.77	2 13.78	12 34 49.4	11 41.3	0.274633	20 2	7 11
26	10 16 8.04	2 13.27	12 23 6.5	11 42.9	0.272851	20 1	7 10
27	10 18 20.80	2 12.76	12 11 22.1	11 44.4	0.271049	19 59	7 9
28	10 20 33.05	+2 12.25	+11 59 36.2	-11 45.9	0.269227	19 57	7 8
29	10 22 44.77	2 11.72	11 47 49.1	11 47.1	0.267386	19 55	7 7
30	10 24 55.97	2 11.20	11 36 0.8	11 48.3	0.265524	19 54	7 6
31	10 27 6.65	2 10.68	11 24 11.5	11 49.3	0.263642	19 52	7 5
Nov. 1	10 29 16.81	2 10.16	11 12 21.4	11 50.1	0.261740	19 50	7 4

Wahrer geocentrischer Ort.

$^{\circ}$ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Oct. 31	10 ^h 27 ^m 6.65		+11 ^o 24 11.5		0.263642	19 52 ^m	7 5 ^m
Nov. 1	10 29 16.81	+2 10.16	11 12 21.4	-11 50.1	0.261740	19 50	7 4
2	10 31 26.43	2 9.62	11 0 30.6	11 50.8	0.259818	19 48	7 2
3	10 33 35.53	2 9.10	10 48 39.1	11 51.5	0.257875	19 47	7 1
4	10 35 44.10	2 8.57	10 36 47.1	11 52.0	0.255912	19 45	7 0
5	10 37 52.15	+2 8.05	+10 24 54.8	-11 52.3	0.253928	19 43	6 59
6	10 39 59.66	2 7.51	10 13 2.2	11 52.6	0.251924	19 41	6 58
7	10 42 6.64	2 6.98	10 1 9.5	11 52.7	0.249900	19 39	6 57
8	10 44 13.09	2 6.45	9 49 16.8	11 52.7	0.247854	19 37	6 56
9	10 46 19.01	2 5.92	9 37 24.2	11 52.6	0.245788	19 36	6 55
10	10 48 24.40	+2 5.39	+9 25 31.9	-11 52.3	0.243701	19 34	6 54
11	10 50 29.26	2 4.86	9 13 39.9	11 52.0	0.241593	19 32	6 53
12	10 52 33.59	2 4.33	9 1 48.4	11 51.5	0.239464	19 30	6 51
13	10 54 37.39	2 3.80	8 49 57.4	11 51.0	0.237313	19 28	6 50
14	10 56 40.66	2 3.27	8 38 7.1	11 50.3	0.235141	19 26	6 49
15	10 58 43.41	+2 2.75	+8 26 17.7	-11 49.4	0.232947	19 24	6 48
16	11 0 45.63	2 2.22	8 14 29.2	11 48.5	0.230731	19 22	6 47
17	11 2 47.31	2 1.68	8 2 41.8	11 47.4	0.228493	19 21	6 46
18	11 4 48.46	2 1.15	7 50 55.5	11 46.3	0.226233	19 19	6 45
19	11 6 49.07	2 0.61	7 39 10.6	11 44.9	0.223950	19 17	6 44
20	11 8 49.14	+2 0.07	+7 27 27.1	-11 43.5	0.221644	19 15	6 43
21	11 10 48.66	1 59.52	7 15 45.2	11 41.9	0.219315	19 13	6 42
22	11 12 47.62	1 58.96	7 4 5.1	11 40.1	0.216963	19 11	6 41
23	11 14 46.02	1 58.40	6 52 27.0	11 38.1	0.214587	19 9	6 40
24	11 16 43.85	1 57.83	6 40 50.8	11 36.2	0.212188	19 7	6 39
25	11 18 41.11	+1 57.26	+6 29 16.8	-11 34.0	0.209765	19 5	6 38
26	11 20 37.78	1 56.67	6 17 45.2	11 31.6	0.207318	19 3	6 37
27	11 22 33.86	1 56.08	6 6 16.0	11 29.2	0.204846	19 1	6 36
28	11 24 29.34	1 55.48	5 54 49.4	11 26.6	0.202351	18 59	6 35
29	11 26 24.21	1 54.87	5 43 25.6	11 23.8	0.199832	18 57	6 34
30	11 28 18.47	+1 54.26	+5 32 4.6	-11 21.0	0.197289	18 55	6 33
Dec. 1	11 30 12.11	1 53.64	5 20 46.6	11 18.0	0.194721	18 53	6 32
2	11 32 5.11	1 53.00	5 9 31.8	11 14.8	0.192129	18 51	6 31
3	11 33 57.48	1 52.37	4 58 20.3	11 11.5	0.189513	18 49	6 30
4	11 35 49.21	1 51.73	4 47 12.1	11 8.2	0.186872	18 47	6 29
5	11 37 40.29	+1 51.08	+4 36 7.5	-11 4.6	0.184207	18 44	6 28
6	11 39 30.71	1 50.42	4 25 6.5	11 1.0	0.181517	18 42	6 27
7	11 41 20.46	1 49.75	4 14 9.3	10 57.2	0.178802	18 40	6 26
8	11 43 9.55	1 49.09	4 3 15.9	10 53.4	0.176063	18 38	6 25
9	11 44 57.96	1 48.41	3 52 26.6	10 49.3	0.173299	18 36	6 24

Wahrer geocentrischer Ort.

O ^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Dec.	8	II ^h 43 ^m 9.55 ^s		+4° 3' 15.9"		0.176063	18 ^h 38 ^m 6 ^s 25 ^m	
	9	II 44 57.96	+I 48.41	3 52 26.6	-10 49.3	0.173299	18 36 6 24	27 3
	10	II 46 45.68	I 47.72	3 41 41.4	10 45.2	0.170510	18 34 6 23	28 12
	11	II 48 32.71	I 47.03	3 31 0.5	10 40.9	0.167697	18 32 6 22	
	12	II 50 19.04	I 46.33	3 20 24.0	10 36.5	0.164858	18 29 6 21	
	13	II 52 4.67	+I 45.63	+3 9 51.9	-10 32.1	0.161994	18 27 6 20	
	14	II 53 49.58	I 44.91	2 59 24.5	10 27.4	0.159104	18 25 6 19	
	15	II 55 33.77	I 44.19	2 49 1.8	10 22.7	0.156189	18 23 6 18	
	16	II 57 17.22	I 43.45	2 38 44.0	10 17.8	0.153248	18 21 6 17	29 30
	17	II 58 59.93	I 42.71	2 28 31.3	10 12.7	0.150281	18 18 6 17	30 30
	18	12 0 41.87	+I 41.94	+2 18 23.8	-10 7.5	0.147287	18 16 6 16	
	19	12 2 23.04	I 41.17	2 8 21.6	10 2.2	0.144267	18 14 6 15	
	20	12 4 3.41	I 40.37	1 58 24.9	9 56.7	0.141220	18 12 6 14	
	21	12 5 42.97	I 39.56	1 48 33.9	9 51.0	0.138147	18 9 6 13	
	22	12 7 21.70	I 38.73	1 38 48.8	9 45.1	0.135047	18 7 6 12	31 29
	23	12 8 59.58	+I 37.88	+1 29 9.6	-9 39.2	0.131919	18 5 6 11	32 30
	24	12 10 36.58	I 37.00	1 19 36.6	9 33.0	0.128765	18 2 6 11	
	25	12 12 12.70	I 36.12	1 10 9.9	9 26.7	0.125584	18 0 6 10	
	26	12 13 47.91	I 35.21	1 0 49.7	9 20.2	0.122376	17 58 6 9	
	27	12 15 22.20	I 34.29	0 51 36.1	9 13.6	0.119140	17 55 6 8	
	28	12 16 55.54	+I 33.34	+0 42 29.3	-9 6.8	0.115878	17 53 6 7	
	29	12 18 27.91	I 32.37	0 33 29.5	8 59.8	0.112589	17 51 6 7	33 30
	30	12 19 59.29	I 31.38	0 24 36.8	8 52.7	0.109274	17 48 6 6	34 30
	31	12 21 29.66	I 30.37	0 15 51.3	8 45.5	0.105932	17 46 6 5	
	32	12 22 59.00	I 29.34	+0 7 13.1	8 38.2	0.102564	17 43 6 4	
	33	12 24 27.30	+I 28.30	-0 1 17.5	-8 30.6	0.099169	17 41 6 4	

Wahrer geocentrischer Ort.

	^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen	
Jan.	0	19 ^h 32 ^m 10.33		-22° 1' 59.0		0.785292	0 ^h 56 ^m	3 57 ^m	
	2	19 34 9.28	+1 58.95	21 57 45.9	+4 13.1	0.785691	0 50	3 58	
	4	19 36 8.47	1 59.19	21 53 26.8	4 19.1	0.786030	0 44	3 58	
	6	19 38 7.85	1 59.38	21 49 1.8	4 25.0	0.786308	0 38	3 59	
	8	19 40 7.35	1 59.50	21 44 31.1	4 30.7	0.786525	0 32	3 59	
			+1 59.57		+4 36.4				
	10	19 42 6.92	1 59.59	-21 39 54.7		0.786682	0 26	4 0	
	12	19 44 6.51	1 59.56	21 35 12.8	4 41.9	0.786777	0 20	4 0	
	14	19 46 6.07	1 59.48	21 30 25.5	4 47.3	0.786811	0 14	4 1	
	16	19 48 5.55	1 59.34	21 25 33.1	4 52.4	0.786784	0 8	4 1	
	18	19 50 4.89	1 59.34	21 20 35.6	4 57.5	0.786696	0 2	4 2	
			+1 59.16		+5 2.4				
	20	19 52 4.05	1 58.93	-21 15 33.2	5 7.1	0.786548	23 56	4 3	
	22	19 54 2.98	1 58.67	21 10 26.1	5 11.8	0.786339	23 51	4 3	
	24	19 56 1.65	1 58.36	21 5 14.3	5 16.2	0.786070	23 45	4 4	
	26	19 58 0.01	1 58.02	20 59 58.1	5 20.6	0.785741	23 39	4 4	
	28	19 59 58.03		20 54 37.5		0.785352	23 33	4 5	
			+1 57.64		+5 24.7				
Febr.	30	20 1 55.67	1 57.21	-20 49 12.8	5 28.6	0.784903	23 27	4 6	
	1	20 3 52.88	1 56.73	20 43 44.2	5 32.3	0.784394	23 21	4 6	
	3	20 5 49.61	1 56.21	20 38 11.9	5 35.8	0.783824	23 15	4 7	
	5	20 7 45.82	1 55.63	20 32 36.1	5 39.0	0.783195	23 9	4 7	
	7	20 9 41.45		20 26 57.1		0.782505	23 3	4 8	
			+1 55.02		+5 42.0				
	9	20 11 36.47	1 54.34	-20 21 15.1	5 44.7	0.781755	22 57	4 9	
	11	20 13 30.81	1 53.62	20 15 30.4	5 47.1	0.780946	22 51	4 9	
	13	20 15 24.43	1 52.85	20 9 43.3	5 49.4	0.780078	22 45	4 10	
	15	20 17 17.28	1 52.04	20 3 53.9	5 51.3	0.779150	22 39	4 11	
	17	20 19 9.32		19 58 2.6		0.778163	22 33	4 11	
			+1 51.18		+5 53.1				
19	20 21 0.50	1 50.29	-19 52 9.5	5 54.6	0.777119	22 27	4 12		
21	20 22 50.79	1 49.37	19 46 14.9	5 55.8	0.776018	22 21	4 13		
23	20 24 40.16	1 48.41	19 40 19.1	5 56.8	0.774860	22 15	4 13		
25	20 26 28.57	1 47.40	19 34 22.3	5 57.5	0.773644	22 9	4 14		
27	20 28 15.97		19 28 24.8		0.772372	22 3	4 15		
		+1 46.36		+5 57.9					
März	1	20 30 2.33	1 45.27	-19 22 26.9	5 57.9	0.771044	21 57	4 15	
	3	20 31 47.60	1 44.12	19 16 29.0	5 57.6	0.769659	21 51	4 16	
	5	20 33 31.72	1 42.93	19 10 31.4	5 57.2	0.768218	21 44	4 16	
	7	20 35 14.65	1 41.70	19 4 34.2	5 56.3	0.766722	21 38	4 17	
	9	20 36 56.35		18 58 37.9		0.765170	21 32	4 18	
			+1 40.42		+5 55.0				
	11	20 38 36.77	1 39.08	-18 52 42.9	5 53.4	0.763564	21 26	4 18	
	13	20 40 15.85	1 37.70	18 46 49.5	5 51.5	0.761905	21 20	4 19	
	15	20 41 53.55	1 36.27	18 40 58.0	5 49.2	0.760193	21 13	4 20	
	17	20 43 29.82	1 34.80	18 35 8.8	5 46.7	0.758428	21 7	4 20	
19	20 45 4.62		18 29 22.1		0.756610	21 1	4 21		

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
März 17	20 ^h 43 ^m 29.82		-18° 35' 8.8		0.758428	21 ^h 7 ^m	4 20 ^m
19	20 45 4.62	+1 34.80	18 29 22.1	+5 46.7	0.756610	21 1	4 21
21	20 46 37.92	1 33.30	18 23 38.2	5 43.9	0.754743	20 54	4 21
23	20 48 9.67	1 31.75	18 17 57.5	5 40.7	0.752826	20 48	4 22
25	20 49 39.84	1 30.17	18 12 20.3	5 37.2	0.750860	20 42	4 23
27	20 51 8.39	+1 28.55	-18 6 47.0	+5 33.3	0.748845	20 35	4 23
29	20 52 35.27	1 26.88	18 1 17.9	5 29.1	0.746782	20 29	4 24
31	20 54 0.43	1 25.16	17 55 53.3	5 24.6	0.744673	20 22	4 24
April 2	20 55 23.83	1 23.40	17 50 33.7	5 19.6	0.742517	20 16	4 25
4	20 56 45.41	1 21.58	17 45 19.5	5 14.2	0.740316	20 9	4 25
6	20 58 5.13	+1 19.72	-17 40 11.0	+5 8.5	0.738070	20 3	4 26
8	20 59 22.92	1 17.79	17 35 8.7	5 2.3	0.735781	19 56	4 26
10	21 0 38.74	1 15.82	17 30 12.9	4 55.8	0.733450	19 50	4 27
12	21 1 52.53	1 13.79	17 25 23.9	4 49.0	0.731078	19 43	4 28
14	21 3 4.26	1 11.73	17 20 42.1	4 41.8	0.728668	19 36	4 28
16	21 4 13.88	+1 9.62	-17 16 7.9	+4 34.2	0.726220	19 30	4 29
18	21 5 21.33	1 7.45	17 11 41.6	4 26.3	0.723735	19 23	4 29
20	21 6 26.59	1 5.26	17 7 23.5	4 18.1	0.721216	19 16	4 29
22	21 7 29.63	1 3.04	17 3 13.9	4 9.6	0.718664	19 9	4 30
24	21 8 30.39	1 0.76	16 59 13.3	4 0.6	0.716081	19 2	4 30
26	21 9 28.83	+0 58.44	-16 55 21.9	+3 51.4	0.713467	18 55	4 31
28	21 10 24.90	0 56.07	16 51 40.2	3 41.7	0.710825	18 48	4 31
30	21 11 18.55	0 53.65	16 48 8.5	3 31.7	0.708155	18 41	4 31
Mai 2	21 12 9.73	0 51.18	16 44 47.2	3 21.3	0.705461	18 34	4 32
4	21 12 58.38	0 48.65	16 41 36.7	3 10.5	0.702744	18 27	4 32
6	21 13 44.46	+0 46.08	-16 38 37.2	+2 59.5	0.700006	18 20	4 32
8	21 14 27.91	0 43.45	16 35 49.2	2 48.0	0.697249	18 13	4 33
10	21 15 8.70	0 40.79	16 33 12.8	2 36.4	0.694477	18 6	4 33
12	21 15 46.77	0 38.07	16 30 48.4	2 24.4	0.691692	17 59	4 33
14	21 16 22.10	0 35.33	16 28 36.3	2 12.1	0.688896	17 51	4 33
16	21 16 54.66	+0 32.56	-16 26 36.7	+1 59.6	0.686092	17 44	4 34
18	21 17 24.41	0 29.75	16 24 49.7	1 47.0	0.683284	17 37	4 34
20	21 17 51.34	0 26.93	16 23 15.6	1 34.1	0.680474	17 29	4 34
22	21 18 15.40	0 24.06	16 21 54.6	1 21.0	0.677664	17 22	4 34
24	21 18 36.57	0 21.17	16 20 46.9	1 7.7	0.674857	17 14	4 34
26	21 18 54.81	+0 18.24	-16 19 52.7	+0 54.2	0.672057	17 6	4 34
28	21 19 10.10	0 15.29	16 19 12.3	0 40.4	0.669266	16 59	4 34
30	21 19 22.40	0 12.30	16 18 45.7	0 26.6	0.666488	16 51	4 34
Juni 1	21 19 31.69	0 9.29	16 18 33.2	+0 12.5	0.663726	16 44	4 34
3	21 19 37.94	0 6.25	16 18 34.7	-0 1.5	0.660985	16 36	4 34

Wahrer geocentrischer Ort.

Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen	
Juni	1	21 ^h 19 ^m 31.69		-16° 18' 33.2		0.663726	16 ^h 44 ^m	4 34 ^m	
	3	21 19 37.94	+0 ^m 6.25	16 18 34.7	-0 ['] 1.5	0.660985	16 36	4 34	
	5	21 19 41.14	0 3.20	16 18 50.4	0 15.7	0.658267	16 28	4 34	
	7	21 19 41.28	+0 0.14	16 19 20.3	0 29.9	0.655578	16 20	4 34	
	9	21 19 38.36	-0 2.92	16 20 4.3	0 44.0	0.652921	16 12	4 34	
			-0 5.97		-0 58.0				
	11	21 19 32.39	0 9.00	-16 21 2.3	1 11.9	0.650300	16 4	4 34	
	13	21 19 23.39	0 12.01	16 22 14.2	1 25.7	0.647720	15 56	4 34	
	15	21 19 11.38	0 15.00	16 23 39.9	1 39.2	0.645184	15 48	4 34	
	17	21 18 56.38	0 17.96	16 25 19.1	1 52.6	0.642697	15 40	4 34	
	19	21 18 38.42	-0 20.89	16 27 11.7	-2 5.8	0.640262	15 32	4 34	
	21	21 18 17.53	0 23.78	-16 29 17.5	2 18.7	0.637883	15 23	4 33	
	23	21 17 53.75	0 26.64	16 31 36.2	2 31.3	0.635565	15 15	4 33	
	25	21 17 27.11	0 29.44	16 34 7.5	2 43.5	0.633312	15 7	4 33	
	27	21 16 57.67	0 32.21	16 36 51.0	2 55.5	0.631128	14 58	4 33	
	29	21 16 25.46	-0 34.90	16 39 46.5	-3 7.1	0.629018	14 50	4 32	
	Juli	1	21 15 50.56	0 37.53	-16 42 53.6	3 18.1	0.626985	14 42	4 32
		3	21 15 13.03	0 40.08	16 46 11.7	3 28.5	0.625035	14 33	4 32
		5	21 14 32.95	0 42.52	16 49 40.2	3 38.4	0.623171	14 25	4 31
7		21 13 50.43	0 44.85	16 53 18.6	3 47.6	0.621398	14 16	4 31	
9		21 13 5.58	-0 47.06	16 57 6.2	-3 56.2	0.619720	14 7	4 30	
11		21 12 18.52	0 49.15	-17 1 2.4	4 4.0	0.618141	13 59	4 30	
13		21 11 29.37	0 51.11	17 5 6.4	4 11.2	0.616665	13 50	4 30	
15		21 10 38.26	0 52.94	17 9 17.6	4 17.5	0.615294	13 41	4 29	
17		21 9 45.32	0 54.63	17 13 35.1	4 23.2	0.614032	13 32	4 29	
19		21 8 50.69	-0 56.17	17 17 58.3	-4 28.2	0.612881	13 24	4 28	
21		21 7 54.52	0 57.58	-17 22 26.5	4 32.4	0.611844	13 15	4 28	
23		21 6 56.94	0 58.85	17 26 58.9	4 35.9	0.610923	13 6	4 27	
25		21 5 58.09	0 59.95	17 31 34.8	4 38.5	0.610121	12 57	4 27	
27		21 4 58.14	1 0.88	17 36 13.3	4 40.3	0.609441	12 48	4 26	
29		21 3 57.26	-1 1.64	17 40 53.6	-4 41.3	0.608883	12 39	4 26	
31		21 2 55.62	1 2.23	-17 45 34.9	4 41.4	0.608450	12 30	4 25	
Aug.		2	21 1 53.39	1 2.63	17 50 16.3	4 40.6	0.608143	12 21	4 25
		4	21 0 50.76	1 2.82	17 54 56.9	4 39.0	0.607963	12 13	4 24
		6	20 59 47.94	1 2.81	17 59 35.9	4 36.5	0.607912	12 4	4 24
	8	20 58 45.13	-1 2.63	18 4 12.4	-4 33.3	0.607989	11 55	4 24	
	10	20 57 42.50	1 2.25	-18 8 45.7	4 29.3	0.608193	11 46	4 23	
	12	20 56 40.25	1 1.70	18 13 15.0	4 24.7	0.608523	11 37	4 23	
	14	20 55 38.55	1 0.95	18 17 39.7	4 19.2	0.608979	11 28	4 22	
	16	20 54 37.60	1 0.04	18 21 58.9	4 13.1	0.609559	11 19	4 22	
18	20 53 37.56		18 26 12.0		0.610261	11 10	4 21		

Wahrer geocentrischer Ort.

^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Aug. 16	20 ^h 54 ^m 37.60 ^s		-18° 21' 58.9"		0.609559	II 19	4 22 ^m
18	20 53 37.56	-1 ^m 0.04 ^s	18 26 12.0	-4 13.1	0.610261	II 10	4 21
20	20 52 38.60	0 58.96	18 30 18.5	4 6.5	0.611084	II 1	4 21
22	20 51 40.89	0 57.71	18 34 17.8	3 59.3	0.612025	IO 52	4 20
24	20 50 44.59	0 56.30	18 38 9.3	3 51.5	0.613083	IO 44	4 20
26	20 49 49.85	-0 54.74	-18 41 52.4	-3 43.1	0.614255	IO 35	4 20
28	20 48 56.84	0 53.01	18 45 26.5	3 34.1	0.615538	IO 26	4 19
30	20 48 5.71	0 51.13	18 48 51.3	3 24.8	0.616930	IO 17	4 19
Sept. 1	20 47 16.61	0 49.10	18 52 6.2	3 14.9	0.618427	IO 9	4 18
3	20 46 29.70	0 46.91	18 55 10.9	3 4.7	0.620026	IO 0	4 18
5	20 45 45.12	-0 44.58	-18 58 4.8	-2 53.9	0.621722	9 51	4 18
7	20 45 2.99	0 42.13	19 0 47.7	2 42.9	0.623512	9 43	4 17
9	20 44 23.41	0 39.58	19 3 19.4	2 31.7	0.625393	9 34	4 17
11	20 43 46.49	0 36.92	19 5 39.5	2 20.1	0.627359	9 26	4 17
13	20 43 12.33	0 34.16	19 7 47.9	2 8.4	0.629405	9 17	4 17
15	20 42 41.01	-0 31.32	-19 9 44.4	-1 56.5	0.631527	9 9	4 17
17	20 42 12.60	0 28.41	19 11 29.0	1 44.6	0.633721	9 0	4 16
19	20 41 47.14	0 25.46	19 13 1.4	1 32.4	0.635982	8 52	4 16
21	20 41 24.70	0 22.44	19 14 21.6	1 20.2	0.638307	8 44	4 16
23	20 41 5.33	0 19.37	19 15 29.4	1 7.8	0.640691	8 36	4 16
25	20 40 49.09	-0 16.24	-19 16 24.8	-0 55.4	0.643130	8 27	4 16
27	20 40 36.01	0 13.08	19 17 7.8	0 43.0	0.645621	8 19	4 16
29	20 40 26.14	0 9.87	19 17 38.2	0 30.4	0.648159	8 11	4 16
Oct. 1	20 40 19.51	0 6.63	19 17 55.9	0 17.7	0.650739	8 3	4 16
3	20 40 16.14	0 3.37	19 18 1.0	-0 5.1	0.653357	7 55	4 16
5	20 40 16.03	-0 0.11	-19 17 53.5	+0 7.5	0.656008	7 48	4 16
7	20 40 19.20	+0 3.17	19 17 33.5	0 20.0	0.658688	7 40	4 16
9	20 40 25.64	0 6.44	19 17 1.1	0 32.4	0.661393	7 32	4 16
11	20 40 35.32	0 9.68	19 16 16.2	0 44.9	0.664119	7 24	4 16
13	20 40 48.23	0 12.91	19 15 18.9	0 57.3	0.666862	7 17	4 16
15	20 41 4.34	+0 16.11	-19 14 9.4	+1 9.5	0.669618	7 9	4 16
17	20 41 23.61	0 19.27	19 12 47.7	1 21.7	0.672384	7 1	4 16
19	20 41 46.02	0 22.41	19 11 14.0	1 33.7	0.675157	6 54	4 16
21	20 42 11.52	0 25.50	19 9 28.2	1 45.8	0.677933	6 46	4 17
23	20 42 40.08	0 28.56	19 7 30.4	1 57.8	0.680710	6 39	4 17
25	20 43 11.68	+0 31.60	-19 5 20.7	+2 9.7	0.683484	6 32	4 17
27	20 43 46.28	0 34.60	19 2 59.1	2 21.6	0.686253	6 24	4 17
29	20 44 23.84	0 37.56	19 0 25.6	2 33.5	0.689013	6 17	4 18
31	20 45 4.31	0 40.47	18 57 40.4	2 45.2	0.691761	6 10	4 18
Nov. 2	20 45 47.65	0 43.34	18 54 43.6	2 56.8	0.694495	6 3	4 18

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Oct. 31	20 ^h 45 ^m 4.31 ^s		-18° 57' 40.4"		0.691761	6 ^h 10 ^m	4 18 ^m
Nov. 2	20 45 47.65	+0 43.34	18 54 43.6	+2 56.8	0.694495	6 3	4 18
4	20 46 33.81	0 46.16	18 51 35.3	3 8.3	0.697211	5 56	4 18
6	20 47 22.71	0 48.90	18 48 15.6	3 19.7	0.699907	5 48	4 19
8	20 48 14.30	0 51.59	18 44 44.5	3 31.1	0.702581	5 41	4 19
10	20 49 8.50	+0 54.20	-18 41 2.2	+3 42.3	0.705230	5 34	4 20
12	20 50 5.26	0 56.76	18 37 8.9	3 53.3	0.707851	5 27	4 20
14	20 51 4.51	0 59.25	18 33 4.7	4 4.2	0.710444	5 21	4 20
16	20 52 6.18	I 1.67	18 28 49.7	4 15.0	0.713006	5 14	4 21
18	20 53 10.22	I 4.04	18 24 23.9	4 25.8	0.715535	5 7	4 21
20	20 54 16.56	+I 6.34	-18 19 47.5	+4 36.4	0.718031	5 0	4 22
22	20 55 25.15	I 8.59	18 15 0.5	4 47.0	0.720491	4 53	4 22
24	20 56 35.93	I 10.78	18 10 2.9	4 57.6	0.722914	4 47	4 23
26	20 57 48.85	I 12.92	18 4 54.9	5 8.0	0.725298	4 40	4 23
28	20 59 3.85	I 15.00	17 59 36.5	5 18.4	0.727642	4 33	4 24
30	21 0 20.86	+I 17.01	-17 54 8.0	+5 28.5	0.729943	4 27	4 25
Dec. 2	21 1 39.82	I 18.96	17 48 29.4	5 38.6	0.732201	4 20	4 25
4	21 3 0.66	I 20.84	17 42 40.9	5 48.5	0.734414	4 14	4 26
6	21 4 23.31	I 22.65	17 36 42.6	5 58.3	0.736581	4 7	4 26
8	21 5 47.71	I 24.40	17 30 34.7	6 7.9	0.738701	4 1	4 27
10	21 7 13.78	+I 26.07	-17 24 17.3	+6 17.4	0.740771	3 54	4 28
12	21 8 41.46	I 27.68	17 17 50.6	6 26.7	0.742791	3 48	4 28
14	21 10 10.68	I 29.22	17 11 14.6	6 36.0	0.744762	3 41	4 29
16	21 11 41.39	I 30.71	17 4 29.6	6 45.0	0.746683	3 35	4 30
18	21 13 13.53	I 32.14	16 57 35.6	6 54.0	0.748553	3 29	4 30
20	21 14 47.05	+I 33.52	-16 50 32.8	+7 2.8	0.750370	3 22	4 31
22	21 16 21.90	I 34.85	16 43 21.2	7 11.6	0.752135	3 16	4 32
24	21 17 58.02	I 36.12	16 36 1.1	7 20.1	0.753846	3 10	4 33
26	21 19 35.36	I 37.34	16 28 32.5	7 28.6	0.755503	3 4	4 33
28	21 21 13.88	I 38.52	16 20 55.7	7 36.8	0.757105	2 57	4 34
30	21 22 53.50	+I 39.62	-16 13 10.8	+7 44.9	0.758651	2 51	4 35
32	21 24 34.16	I 40.66	16 5 17.9	7 52.9	0.760141	2 45	4 36
34	21 26 15.81	I 41.65	15 57 17.4	8 0.5	0.761573	2 39	4 37

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Jan. 0	19 ^h 16 ^m 23.18		-22° 6' 53.3		I.04205I	^h 40 ^m	^h 57 ^m
2	19 17 23.70	+I 0.52	22 5 11.0	+I 42.3	I.042222	0 33	3 57
4	19 18 24.36	I 0.66	22 3 26.9	I 44.1	I.042352	0 26	3 57
6	19 19 25.11	I 0.75	22 1 41.2	I 45.7	I.042440	0 19	3 57
8	19 20 25.91	I 0.80	21 59 53.9	I 47.3	I.042487	0 12	3 58
		+I 0.81		+I 48.9			
10	19 21 26.72		-21 58 5.0		I.042492	0 5	3 58
12	19 22 27.49	I 0.77	21 56 14.7	I 50.3	I.042456	23 58	3 58
14	19 23 28.17	I 0.68	21 54 23.1	I 51.6	I.042379	23 52	3 58
16	19 24 28.74	I 0.57	21 52 30.3	I 52.8	I.042260	23 45	3 58
18	19 25 29.14	I 0.40	21 50 36.3	I 54.0	I.042100	23 38	3 59
		+I 0.19		+I 55.1			
20	19 26 29.33		-21 48 41.2		I.041899	23 31	3 59
22	19 27 29.29	o 59.96	21 46 45.2	I 56.0	I.041657	23 24	3 59
24	19 28 28.97	o 59.68	21 44 48.3	I 56.9	I.041375	23 17	3 59
26	19 29 28.34	o 59.37	21 42 50.6	I 57.7	I.041053	23 10	4 0
28	19 30 27.36	o 59.02	21 40 52.2	I 58.4	I.04069I	23 3	4 0
		+o 58.64		+I 59.0			
30	19 31 26.00	o 58.22	-21 38 53.2	I 59.4	I.040289	22 57	4 0
Febr. 1	19 32 24.22	o 57.76	21 36 53.8	I 59.7	I.039847	22 50	4 0
3	19 33 21.98	o 57.26	21 34 54.1	2 0.0	I.039366	22 43	4 0
5	19 34 19.24	o 56.72	21 32 54.1	2 0.0	I.038845	22 36	4 1
7	19 35 15.96	o 56.13	21 30 54.1	2 0.0	I.038285	22 29	4 1
		+o 55.51		+2 0.0			
9	19 36 12.09	o 55.51	-21 28 54.1	I 59.8	I.037687	22 22	4 1
11	19 37 7.60	o 54.85	21 26 54.3	I 59.8	I.037051	22 15	4 1
13	19 38 2.45	o 54.15	21 24 54.9	I 59.4	I.036377	22 8	4 2
15	19 38 56.60	o 53.41	21 22 55.9	I 59.0	I.035666	22 1	4 2
17	19 39 50.01	o 52.65	21 20 57.6	I 58.3	I.034918	21 54	4 2
		+o 51.84		+I 57.7			
19	19 40 42.66	o 51.84	-21 18 59.9	I 56.8	I.034135	21 47	4 2
21	19 41 34.50	o 51.01	21 17 3.1	I 56.8	I.033317	21 40	4 2
23	19 42 25.51	o 50.15	21 15 7.3	I 55.8	I.032464	21 33	4 3
25	19 43 15.66	o 49.25	21 13 12.5	I 54.8	I.031577	21 26	4 3
27	19 44 4.91	o 48.32	21 11 19.0	I 53.5	I.030656	21 19	4 3
		+o 47.35		+I 52.1			
März 1	19 44 53.23	o 47.35	-21 9 26.9	I 50.6	I.029703	21 12	4 3
3	19 45 40.58	o 46.35	21 7 36.3	I 48.9	I.028717	21 5	4 4
5	19 46 26.93	o 45.31	21 5 47.4	I 47.1	I.027700	20 57	4 4
7	19 47 12.24	o 44.23	21 4 0.3	I 45.1	I.026652	20 50	4 4
9	19 47 56.47	o 43.13	21 2 15.2	I 43.0	I.025574	20 43	4 4
		+o 41.98		+I 43.0			
11	19 48 39.60	o 41.98	-21 0 32.2	I 40.7	I.024467	20 36	4 4
13	19 49 21.58	o 40.80	20 58 51.5	I 38.2	I.023332	20 29	4 5
15	19 50 2.38	o 39.60	20 57 13.3	I 35.7	I.022170	20 22	4 5
17	19 50 41.98	o 38.37	20 55 37.6	I 33.0	I.020982	20 14	4 5
19	19 51 20.35		20 54 4.6		I.019768	20 7	4 5

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
März 17	19 ^h 50 ^m 41.98		-20° 55' 37.6		I.020982	20 ^h 14 ^m	4 ^h 5 ^m
19	19 51 20.35	+0 38.37	20 54 4.6	+I 33.0	I.019768	20 7	4 5
21	19 51 57.46	0 37.11	20 52 34.3	I 30.3	I.018530	20 0	4 5
23	19 52 33.29	0 35.83	20 51 7.0	I 27.3	I.017270	19 53	4 5
25	19 53 7.82	0 34.53	20 49 42.7	I 24.3	I.015988	19 45	4 6
27	19 53 41.02	+0 33.20	-20 48 21.6	+I 21.1	I.014685	19 38	4 6
29	19 54 12.86	0 31.84	20 47 3.8	I 17.8	I.013362	19 30	4 6
31	19 54 43.32	0 30.46	20 45 49.4	I 14.4	I.012021	19 23	4 6
April 2	19 55 12.37	0 29.05	20 44 38.6	I 10.8	I.010662	19 16	4 6
4	19 55 39.98	0 27.61	20 43 31.5	I 7.1	I.009286	19 8	4 6
6	19 56 6.13	+0 26.15	-20 42 28.2	+I 3.3	I.007895	19 1	4 6
8	19 56 30.79	0 24.66	20 41 28.7	0 59.5	I.006491	18 53	4 6
10	19 56 53.93	0 23.14	20 40 33.3	0 55.4	I.005074	18 46	4 7
12	19 57 15.55	0 21.62	20 39 42.0	0 51.3	I.003647	18 38	4 7
14	19 57 35.62	0 20.07	20 38 54.9	0 47.1	I.002210	18 31	4 7
16	19 57 54.13	+0 18.51	-20 38 12.1	+0 42.8	I.000766	18 23	4 7
18	19 58 11.07	0 16.94	20 37 33.6	0 38.5	0.999316	18 16	4 7
20	19 58 26.44	0 15.37	20 36 59.5	0 34.1	0.997862	18 8	4 7
22	19 58 40.22	0 13.78	20 36 29.8	0 29.7	0.996404	18 0	4 7
24	19 58 52.40	0 12.18	20 36 4.6	0 25.2	0.994944	17 53	4 7
26	19 59 2.96	+0 10.56	-20 35 44.0	+0 20.6	0.993484	17 45	4 7
28	19 59 11.90	0 8.94	20 35 28.1	0 15.9	0.992026	17 37	4 7
30	19 59 19.21	0 7.31	20 35 16.8	0 11.3	0.990571	17 29	4 7
Mai 2	19 59 24.89	0 5.68	20 35 10.2	0 6.6	0.989120	17 22	4 7
4	19 59 28.92	0 4.03	20 35 8.3	+0 1.9	0.987676	17 14	4 7
6	19 59 31.31	+0 2.39	-20 35 11.2	-0 2.9	0.986240	17 6	4 7
8	19 59 32.05	+0 0.74	20 35 18.8	0 7.6	0.984814	16 58	4 7
10	19 59 31.15	-0 0.90	20 35 31.2	0 12.4	0.983401	16 50	4 7
12	19 59 28.61	0 2.54	20 35 48.2	0 17.0	0.982001	16 42	4 7
14	19 59 24.45	0 4.16	20 36 9.9	0 21.7	0.980617	16 34	4 7
16	19 59 18.68	-0 5.77	-20 36 36.2	-0 26.3	0.979251	16 26	4 7
18	19 59 11.32	0 7.36	20 37 7.0	0 30.8	0.977904	16 18	4 7
20	19 59 2.38	0 8.94	20 37 42.4	0 35.4	0.976578	16 10	4 7
22	19 58 51.89	0 10.49	20 38 22.2	0 39.8	0.975275	16 2	4 7
24	19 58 39.85	0 12.04	20 39 6.4	0 44.2	0.973996	15 54	4 7
26	19 58 26.30	-0 13.55	-20 39 54.9	-0 48.5	0.972744	15 46	4 7
28	19 58 11.25	0 15.05	20 40 47.6	0 52.7	0.971520	15 38	4 7
30	19 57 54.72	0 16.53	20 41 44.3	0 56.7	0.970325	15 30	4 6
Juni 1	19 57 36.74	0 17.98	20 42 45.1	I 0.8	0.969162	15 22	4 6
3	19 57 17.35	0 19.39	20 43 49.7	I 4.6	0.968032	15 13	4 6

Wahrer geocentrischer Ort.

$\overset{h}{\circ}$ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Juni	1	19 ^h 57 ^m 36.74		-20° 42' 45.1		0.969162	15 ^h 22 ^m 4 ^h 6 ^m
	3	19 57 17.35	- ^m 19.39	20 43 49.7	- ["] 4.6	0.968032	15 13 4 6
	5	19 56 56.57	o 20.78	20 44 58.1	I 8.4	0.966937	15 5 4 6
	7	19 56 34.44	o 22.13	20 46 10.2	I 12.1	0.965880	14 57 4 6
	9	19 56 11.00	o 23.44	20 47 25.7	I 15.5	0.964862	14 49 4 6
			-o 24.69		-I 18.7		
	11	19 55 46.31	o 25.89	-20 48 44.4	I 21.8	0.963884	14 40 4 6
	13	19 55 20.42	o 27.04	20 50 6.2	I 24.8	0.962948	14 32 4 6
	15	19 54 53.38	o 28.15	20 51 31.0	I 27.5	0.962056	14 24 4 5
	17	19 54 25.23	o 29.19	20 52 58.5	I 30.0	0.961208	14 15 4 5
	19	19 53 56.04	-o 30.19	20 54 28.5	-I 32.4	0.960406	14 7 4 5
	21	19 53 25.85	o 31.13	-20 56 0.9	I 34.6	0.959652	13 59 4 5
	23	19 52 54.72	o 32.01	20 57 35.5	I 36.6	0.958946	13 50 4 5
	25	19 52 22.71	o 32.84	20 59 12.1	I 38.5	0.958290	13 42 4 4
27	19 51 49.87	o 33.60	21 0 50.6	I 40.0	0.957684	13 33 4 4	
29	19 51 16.27	-o 34.31	21 2 30.6	-I 41.5	0.957130	13 25 4 4	
Juli	1	19 50 41.96	o 34.95	-21 4 12.1	I 42.7	0.956630	13 16 4 4
	3	19 50 7.01	o 35.51	21 5 54.8	I 43.6	0.956184	13 8 4 4
	5	19 49 31.50	o 36.00	21 7 38.4	I 44.4	0.955793	12 59 4 4
	7	19 48 55.50	o 36.41	21 9 22.8	I 45.0	0.955457	12 51 4 3
	9	19 48 19.09	-o 36.74	21 11 7.8	-I 45.2	0.955178	12 43 4 3
	11	19 47 42.35	o 36.99	-21 12 53.0	I 45.3	0.954956	12 34 4 3
	13	19 47 5.36	o 37.18	21 14 38.3	I 45.2	0.954790	12 26 4 3
	15	19 46 28.18	o 37.28	21 16 23.5	I 44.9	0.954682	12 17 4 3
	17	19 45 50.90	o 37.32	21 18 8.4	I 44.4	0.954631	12 8 4 2
	19	19 45 13.58	-o 37.27	21 19 52.8	-I 43.7	0.954637	12 0 4 2
	21	19 44 36.31	o 37.16	-21 21 36.5	I 42.9	0.954701	11 51 4 2
	23	19 43 59.15	o 36.98	21 23 19.4	I 41.8	0.954822	11 43 4 2
	25	19 43 22.17	o 36.73	21 25 1.2	I 40.6	0.955000	11 35 4 2
	27	19 42 45.44	o 36.40	21 26 41.8	I 39.3	0.955235	11 26 4 1
29	19 42 9.04	-o 35.99	21 28 21.1	-I 37.7	0.955526	11 17 4 1	
Aug.	31	19 41 33.05	o 35.51	-21 29 58.8	I 35.9	0.955873	11 9 4 1
	2	19 40 57.54	o 34.95	21 31 34.7	I 34.0	0.956276	11 1 4 1
	4	19 40 22.59	o 34.31	21 33 8.7	I 31.9	0.956734	10 52 4 1
	6	19 39 48.28	o 33.60	21 34 40.6	I 29.7	0.957246	10 44 4 0
	8	19 39 14.68	-o 32.82	21 36 10.3	-I 27.3	0.957811	10 35 4 0
	10	19 38 41.86	o 31.97	-21 37 37.6	I 24.8	0.958429	10 27 4 0
	12	19 38 9.89	o 31.07	21 39 2.4	I 22.3	0.959097	10 18 4 0
	14	19 37 38.82	o 30.10	21 40 24.7	I 19.6	0.959815	10 10 4 0
	16	19 37 8.72	o 29.07	21 41 44.3	I 16.8	0.960581	10 2 4 0
	18	19 36 39.65		21 43 1.1		0.961394	9 53 3 59

Wahrer geocentrischer Ort.

Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden-Winkel	Halber Tag-bogen
Aug. 16	19 ^h 37 ^m 8.72		-21° 41' 44.3"		0.960581	10 ^h 2 ^m 4 ^o	
18	19 36 39.65	-0 29.07	21 43 1.1	-1 16.8	0.961394	9 53 3 59	
20	19 36 11.66	0 27.99	21 44 15.0	1 13.9	0.962253	9 45 3 59	
22	19 35 44.79	0 26.87	21 45 25.8	1 10.8	0.963156	9 36 3 59	
24	19 35 19.10	0 25.69	21 46 33.6	1 7.8	0.964102	9 28 3 59	
26	19 34 54.65	-0 24.45	-21 47 38.4	-1 4.8	0.965090	9 20 3 59	
28	19 34 31.48	0 23.17	21 48 40.0	1 1.6	0.966118	9 12 3 59	
30	19 34 9.65	0 21.83	21 49 38.2	0 58.2	0.967184	9 3 3 59	
Sept. 1	19 33 49.20	0 20.45	21 50 33.0	0 54.8	0.968287	8 55 3 59	
3	19 33 30.17	0 19.03	21 51 24.3	0 51.3	0.969425	8 47 3 59	
5	19 33 12.61	-0 17.56	-21 52 12.1	-0 47.8	0.970596	8 39 3 58	
7	19 32 56.55	0 16.06	21 52 56.5	0 44.4	0.971799	8 31 3 58	
9	19 32 42.02	0 14.53	21 53 37.3	0 40.8	0.973031	8 22 3 58	
11	19 32 29.06	0 12.96	21 54 14.5	0 37.2	0.974290	8 14 3 58	
13	19 32 17.68	0 11.38	21 54 48.1	0 33.6	0.975575	8 6 3 58	
15	19 32 7.89	-0 9.79	-21 55 18.0	-0 29.9	0.976883	7 58 3 58	
17	19 31 59.72	0 8.17	21 55 44.3	0 26.3	0.978214	7 50 3 58	
19	19 31 53.19	0 6.53	21 56 6.9	0 22.6	0.979564	7 42 3 58	
21	19 31 48.30	0 4.89	21 56 25.8	0 18.9	0.980933	7 34 3 58	
23	19 31 45.08	0 3.22	21 56 40.9	0 15.1	0.982319	7 26 3 58	
25	19 31 43.53	-0 1.55	-21 56 52.3	-0 11.4	0.983719	7 18 3 58	
27	19 31 43.67	+0 0.14	21 56 59.9	0 7.6	0.985133	7 11 3 58	
29	19 31 45.50	0 1.83	21 57 3.7	-0 3.8	0.986558	7 3 3 58	
Oct. 1	19 31 49.03	0 3.53	21 57 3.7	0 0.0	0.987993	6 55 3 58	
3	19 31 54.27	0 5.24	21 56 59.9	+0 3.8	0.989435	6 47 3 58	
5	19 32 1.21	+0 6.94	-21 56 52.3	+0 7.6	0.990882	6 39 3 58	
7	19 32 9.85	0 8.64	21 56 40.9	0 11.4	0.992334	6 32 3 58	
9	19 32 20.17	0 10.32	21 56 25.7	0 15.2	0.993787	6 24 3 58	
11	19 32 32.17	0 12.00	21 56 6.7	0 19.0	0.995240	6 16 3 58	
13	19 32 45.84	0 13.67	21 55 44.0	0 22.7	0.996692	6 8 3 58	
15	19 33 1.16	+0 15.32	-21 55 17.4	+0 26.6	0.998141	6 1 3 58	
17	19 33 18.11	0 16.95	21 54 47.1	0 30.3	0.999585	5 53 3 58	
19	19 33 36.68	0 18.57	21 54 13.1	0 34.0	1.001023	5 45 3 58	
21	19 33 56.84	0 20.16	21 53 35.3	0 37.8	1.002453	5 38 3 58	
23	19 34 18.59	0 21.75	21 52 53.7	0 41.6	1.003875	5 31 3 58	
25	19 34 41.90	+0 23.31	-21 52 8.4	+0 45.3	1.005286	5 23 3 58	
27	19 35 6.77	0 24.87	21 51 19.3	0 49.1	1.006685	5 16 3 59	
29	19 35 33.16	0 26.39	21 50 26.4	0 52.9	1.008071	5 8 3 59	
31	19 36 1.06	0 27.90	21 49 29.8	0 56.6	1.009442	5 1 3 59	
Nov. 2	19 36 30.45	0 29.39	21 48 29.4	1 0.4	1.010797	4 53 3 59	

Wahrer geocentrischer Ort.

o ^h Mittl. Zeit		AR.	Dif.	Decl.	Dif.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Oct.	31	19 ^h 36 ^m 1.06 ^s		-21° 49' 29.8"		I.009442	5 ^h 1 ^m	3 ^h 59 ^m
Nov.	2	19 36 30.45	+0 29.39	21 48 29.4	+1 0.4	I.010797	4 53	3 59
	4	19 37 1.29	0 30.84	21 47 25.3	1 4.1	I.012134	4 46	3 59
	6	19 37 33.55	0 32.26	21 46 17.6	1 7.7	I.013452	4 39	3 59
	8	19 38 7.20	0 33.65	21 45 6.2	1 11.4	I.014750	4 31	3 59
	10	19 38 42.21	+0 35.01	-21 43 51.2	+1 15.0	I.016026	4 24	3 59
	12	19 39 18.54	0 36.33	21 42 32.6	1 18.6	I.017279	4 17	4 0
	14	19 39 56.16	0 37.62	21 41 10.4	1 22.2	I.018509	4 9	4 0
	16	19 40 35.04	0 38.88	21 39 44.6	1 25.8	I.019714	4 2	4 0
	18	19 41 15.14	0 40.10	21 38 15.3	1 29.3	I.020894	3 55	4 0
	20	19 41 56.44	+0 41.30	-21 36 42.4	+1 32.9	I.022048	3 48	4 0
	22	19 42 38.90	0 42.46	21 35 6.0	1 36.4	I.023174	3 41	4 0
	24	19 43 22.49	0 43.59	21 33 26.2	1 39.8	I.024272	3 33	4 1
	26	19 44 7.18	0 44.69	21 31 42.9	1 43.3	I.025341	3 26	4 1
	28	19 44 52.94	0 45.76	21 29 56.3	1 46.6	I.026379	3 19	4 1
	30	19 45 39.72	+0 46.78	-21 28 6.4	+1 49.9	I.027386	3 12	4 1
Dec.	2	19 46 27.50	0 47.78	21 26 13.1	1 53.3	I.028361	3 5	4 1
	4	19 47 16.22	0 48.72	21 24 16.4	1 56.7	I.029303	2 58	4 2
	6	19 48 5.85	0 49.63	21 22 16.5	1 59.9	I.030211	2 51	4 2
	8	19 48 56.34	0 50.49	21 20 13.5	2 3.0	I.031085	2 44	4 2
	10	19 49 47.66	+0 51.32	-21 18 7.4	+2 6.1	I.031924	2 37	4 2
	12	19 50 39.76	0 52.10	21 15 58.3	2 9.1	I.032727	2 30	4 3
	14	19 51 32.60	0 52.84	21 13 46.2	2 12.1	I.033495	2 23	4 3
	16	19 52 26.15	0 53.55	21 11 31.1	2 15.1	I.034226	2 16	4 3
	18	19 53 20.37	0 54.22	21 9 13.1	2 18.0	I.034921	2 9	4 3
	20	19 54 15.23	+0 54.86	-21 6 52.4	+2 20.7	I.035578	2 2	4 4
	22	19 55 10.69	0 55.46	21 4 28.9	2 23.5	I.036198	1 55	4 4
	24	19 56 6.72	0 56.03	21 2 2.7	2 26.2	I.036779	1 48	4 4
	26	19 57 3.27	0 56.55	20 59 33.9	2 28.8	I.037321	1 41	4 4
	28	19 58 0.30	0 57.03	20 57 2.5	2 31.4	I.037824	1 34	4 5
	30	19 58 57.78	+0 57.48	-20 54 28.7	+2 33.8	I.038288	1 27	4 5
	32	19 59 55.66	0 57.88	20 51 52.7	2 36.0	I.038711	1 20	4 5
	34	20 0 53.89	0 58.23	20 49 14.4	2 38.3	I.039094	1 13	4 6

3 15.5
20 44.15
4 1
16 17
24 45

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Jan. 0	17 ^h 9 ^m 35.90		-22 [°] 59' 36.0	"	I.301952	22 ^h 33 ^m	3 ^h 50 ^m
2	17 10 5.92	+30.02	23 0 13.2	-37.2	I.301683	22 25	3 50
4	17 10 35.65	29.73	23 0 49.7	36.5	I.301391	22 18	3 50
6	17 11 5.04	29.39	23 1 25.4	35.7	I.301076	22 11	3 50
8	17 11 34.07	29.03	23 2 0.4	35.0	I.300739	22 3	3 50
10	17 12 2.72	+28.65	-23 2 34.6	-34.2	I.300379	21 56	3 50
12	17 12 30.96	28.24	23 3 8.0	33.4	I.299998	21 48	3 50
14	17 12 58.76	27.80	23 3 40.7	32.7	I.299595	21 41	3 50
16	17 13 26.10	27.34	23 4 12.6	31.9	I.299171	21 34	3 50
18	17 13 52.95	26.85	23 4 43.6	31.0	I.298727	21 26	3 50
20	17 14 19.29	+26.34	-23 5 13.8	-30.2	I.298262	21 19	3 50
22	17 14 45.10	25.81	23 5 43.2	29.4	I.297778	21 11	3 50
24	17 15 10.36	25.26	23 6 11.7	28.5	I.297275	21 4	3 50
26	17 15 35.05	24.69	23 6 39.4	27.7	I.296753	20 56	3 50
28	17 15 59.15	24.10	23 7 6.2	26.8	I.296213	20 49	3 50
30	17 16 22.63	+23.48	-23 7 32.2	-26.0	I.295655	20 41	3 50
Febr. 1	17 16 45.48	22.85	23 7 57.3	25.1	I.295080	20 34	3 49
3	17 17 7.67	22.19	23 8 21.5	24.2	I.294489	20 26	3 49
5	17 17 29.18	21.51	23 8 44.8	23.3	I.293881	20 19	3 49
7	17 17 49.99	20.81	23 9 7.3	22.5	I.293258	20 11	3 49
9	17 18 10.08	+20.09	-23 9 28.9	-21.6	I.292620	20 4	3 49
11	17 18 29.43	19.35	23 9 49.6	20.7	I.291969	19 56	3 49
13	17 18 48.02	18.59	23 10 9.4	19.8	I.291304	19 49	3 49
15	17 19 5.84	17.82	23 10 28.3	18.9	I.290626	19 41	3 49
17	17 19 22.87	17.03	23 10 46.4	18.1	I.289937	19 33	3 49
19	17 19 39.10	+16.23	-23 11 3.6	-17.2	I.289237	19 26	3 49
21	17 19 54.51	15.41	23 11 19.9	16.3	I.288527	19 18	3 49
23	17 20 9.10	14.59	23 11 35.4	15.5	I.287807	19 11	3 49
25	17 20 22.85	13.75	23 11 49.9	14.5	I.287078	19 3	3 49
27	17 20 35.76	12.91	23 12 3.6	13.7	I.286342	18 55	3 49
März 1	17 20 47.81	+12.05	-23 12 16.4	-12.8	I.285598	18 48	3 49
3	17 20 58.98	11.17	23 12 28.4	12.0	I.284848	18 40	3 49
5	17 21 9.27	10.29	23 12 39.5	11.1	I.284092	18 32	3 49
7	17 21 18.66	9.39	23 12 49.7	10.2	I.283331	18 24	3 49
9	17 21 27.15	8.49	23 12 59.1	9.4	I.282567	18 17	3 49
11	17 21 34.73	+7.58	-23 13 7.6	-8.5	I.281800	18 9	3 49
13	17 21 41.40	6.67	23 13 15.3	7.7	I.281031	18 1	3 49
15	17 21 47.15	5.75	23 13 22.1	6.8	I.280261	17 53	3 49
17	17 21 51.98	4.83	23 13 28.1	6.0	I.279491	17 46	3 49
19	17 21 55.90	3.92	23 13 33.2	5.1	I.278722	17 38	3 49

Wahrer geocentrischer Ort.

^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
März 17	17 ^h 21 ^m 51.98 ^s		—23° 13' 28".1		I.27949I	17 ^h 46 ^m	3 49 ^m
19	17 21 55.90	+ 3.92	23 13 33.2	— 5.1	I.278722	17 38	3 49
21	17 21 58.90	3.00	23 13 37.5	4.3	I.277955	17 30	3 49
23	17 22 0.98	2.08	23 13 40.9	3.4	I.27719I	17 22	3 49
25	17 22 2.15	1.17	23 13 43.5	2.6	I.27643I	17 14	3 49
27	17 22 2.4I	+ 0.26	—23 13 45.3	— 1.8	I.275675	17 6	3 49
29	17 22 1.76	— 0.65	23 13 46.3	1.0	I.274924	16 58	3 49
31	17 22 0.2I	1.55	23 13 46.5	— 0.2	I.274180	16 50	3 49
April 2	17 21 57.76	2.45	23 13 45.9	+ 0.6	I.273442	16 43	3 49
4	17 21 54.42	3.34	23 13 44.4	1.5	I.272713	16 35	3 49
6	17 21 50.19	— 4.23	—23 13 42.1	+ 2.3	I.271993	16 27	3 49
8	17 21 45.08	5.11	23 13 38.9	3.2	I.271284	16 19	3 49
10	17 21 39.10	5.98	23 13 35.0	3.9	I.270586	16 11	3 49
12	17 21 32.27	6.83	23 13 30.3	4.7	I.269899	16 3	3 49
14	17 21 24.60	7.67	23 13 24.8	5.5	I.269225	15 55	3 49
16	17 21 16.12	— 8.48	—23 13 18.5	+ 6.3	I.268566	15 47	3 49
18	17 21 6.83	9.29	23 13 11.4	7.1	I.267921	15 39	3 49
20	17 20 56.76	10.07	23 13 3.6	7.8	I.267292	15 31	3 49
22	17 20 45.92	10.84	23 12 54.9	8.7	I.266679	15 22	3 49
24	17 20 34.34	11.58	23 12 45.5	9.4	I.266084	15 14	3 49
26	17 20 22.03	—12.31	—23 12 35.4	+10.1	I.265506	15 6	3 49
28	17 20 9.01	13.02	23 12 24.5	10.9	I.264947	14 58	3 49
30	17 19 55.31	13.70	23 12 12.9	11.6	I.264407	14 50	3 49
Mai 2	17 19 40.94	14.37	23 12 0.6	12.3	I.263887	14 42	3 49
4	17 19 25.93	15.01	23 11 47.6	13.0	I.263388	14 34	3 49
6	17 19 10.30	—15.63	—23 11 33.9	+13.7	I.262911	14 26	3 49
8	17 18 54.08	16.22	23 11 19.5	14.4	I.262456	14 18	3 49
10	17 18 37.30	16.78	23 11 4.4	15.1	I.262024	14 9	3 49
12	17 18 20.00	17.30	23 10 48.7	15.7	I.261616	14 1	3 49
14	17 18 2.20	17.80	23 10 32.3	16.4	I.261232	13 53	3 49
16	17 17 43.94	—18.26	—23 10 15.3	+17.0	I.260873	13 45	3 49
18	17 17 25.24	18.70	23 9 57.8	17.5	I.260539	13 37	3 49
20	17 17 6.14	19.10	23 9 39.6	18.2	I.260231	13 28	3 49
22	17 16 46.67	19.47	23 9 20.9	18.7	I.259948	13 20	3 49
24	17 16 26.86	19.81	23 9 1.7	19.2	I.259692	13 12	3 49
26	17 16 6.75	—20.11	—23 8 42.1	+19.6	I.259463	13 4	3 49
28	17 15 46.36	20.39	23 8 21.9	20.2	I.259261	12 56	3 49
30	17 15 25.72	20.64	23 8 1.3	20.6	I.259086	12 47	3 49
Juni 1	17 15 4.88	20.84	23 7 40.3	21.0	I.258938	12 39	3 49
3	17 14 43.86	21.02	23 7 19.0	21.3	I.258819	12 31	3 50

Wahrer geocentrischer Ort.

O^{h} Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen	
Juni	1	17 ^h 15 ^m 4.88		-23° 7' 40.3		I.258938	12 ^h 39 ^m 3 49 ^m	
	3	17 14 43.86	-21.02	23 7 19.0	+21.3	I.258819	12 31 3 50	
	5	17 14 22.70	21.16	23 6 57.3	21.7	I.258728	12 23 3 50	
	7	17 14 1.44	21.26	23 6 35.3	22.0	I.258665	12 14 3 50	
	9	17 13 40.12	21.32	23 6 13.1	22.2	I.258630	12 6 3 50	
			-21.34		+22.5			
	11	17 13 18.78		-23 5 50.6		I.258624	11 58 3 50	
	13	17 12 57.45	21.33	23 5 27.9	22.7	I.258646	11 50 3 50	
	15	17 12 36.17	21.28	23 5 5.1	22.8	I.258697	11 41 3 50	
	17	17 12 14.97	21.20	23 4 42.1	23.0	I.258776	11 33 3 50	
	19	17 11 53.89	21.08	23 4 19.1	23.0	I.258882	11 25 3 50	
			-20.93		+23.0			
	21	17 11 32.96	20.75	-23 3 56.1		I.259016	11 17 3 50	
	23	17 11 12.21	20.53	23 3 33.1	23.0	I.259178	11 8 3 50	
	25	17 10 51.68	20.29	23 3 10.2	22.9	I.259367	11 0 3 50	
	27	17 10 31.39	20.01	23 2 47.4	22.8	I.259583	10 52 3 50	
	29	17 10 11.38		23 2 24.7	22.7	I.259826	10 44 3 50	
			-19.70		+22.5			
	Juli	1	17 9 51.68		-23 2 2.2		I.260096	10 36 3 50
3		17 9 32.33	19.35	23 1 40.0	22.2	I.260392	10 27 3 50	
5		17 9 13.37	18.96	23 1 18.1	21.9	I.260713	10 19 3 50	
7		17 8 54.82	18.55	23 0 56.5	21.6	I.261061	10 11 3 50	
9		17 8 36.72	18.10	23 0 35.3	21.2	I.261433	10 3 3 50	
			-17.63		+20.7			
11		17 8 19.09	17.12	-23 0 14.6		I.261829	9 55 3 50	
13		17 8 1.97	16.59	22 59 54.3	20.3	I.262249	9 46 3 50	
15		17 7 45.38	16.03	22 59 34.6	19.7	I.262692	9 38 3 50	
17		17 7 29.35	15.45	22 59 15.4	19.2	I.263157	9 30 3 51	
19		17 7 13.90		22 58 56.9	18.5	I.263644	9 22 3 51	
			-14.84		+17.9			
21		17 6 59.06	14.21	-22 58 39.0	17.2	I.264153	9 14 3 51	
23		17 6 44.85	13.57	22 58 21.8	16.5	I.264681	9 6 3 51	
25		17 6 31.28	12.90	22 58 5.3	15.7	I.265229	8 58 3 51	
27		17 6 18.38	12.20	22 57 49.6	14.8	I.265796	8 50 3 51	
29		17 6 6.18		22 57 34.8		I.266383	8 41 3 51	
			-11.49		+14.0			
31		17 5 54.69	10.75	-22 57 20.8		I.266987	8 33 3 51	
Aug.	2	17 5 43.94	9.99	22 57 7.7	13.1	I.267607	8 25 3 51	
	4	17 5 33.95	9.22	22 56 55.5	12.2	I.268243	8 17 3 51	
	6	17 5 24.73	8.42	22 56 44.2	11.3	I.268895	8 9 3 51	
	8	17 5 16.31		22 56 33.9	10.3	I.269561	8 1 3 51	
			-7.62		+9.3			
	10	17 5 8.69	6.80	-22 56 24.6		I.270240	7 53 3 51	
	12	17 5 1.89	5.97	22 56 16.4	8.2	I.270932	7 45 3 51	
	14	17 4 55.92	5.14	22 56 9.2	7.2	I.271635	7 37 3 51	
	16	17 4 50.78	4.29	22 56 3.1	6.1	I.272349	7 29 3 51	
18	17 4 46.49		22 55 58.1	5.0	I.273073	7 21 3 51		

Wahrer geocentrischer Ort.

^o Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Aug. 16	17 ^h 4 ^m 50.78		-22 ^m 56' 3.1		I.272349	7 ^h 29 ^m	3 ^h 51 ^m
18	17 4 46.49	- 4.29	22 55 58.1	+ 5.0	I.273073	7 21	3 51
20	17 4 43.05	3.44	22 55 54.2	3.9	I.273806	7 13	3 51
22	17 4 40.47	2.58	22 55 51.5	2.7	I.274547	7 5	3 51
24	17 4 38.76	1.71	22 55 49.9	1.6	I.275296	6 57	3 51
26	17 4 37.92	- 0.84	-22 55 49.5	+ 0.4	I.276051	6 50	3 51
28	17 4 37.97	+ 0.05	22 55 50.2	- 0.7	I.276812	6 42	3 51
30	17 4 38.90	0.93	22 55 52.0	1.8	I.277577	6 34	3 51
Sept. 1	17 4 40.72	1.82	22 55 55.0	3.0	I.278346	6 26	3 51
3	17 4 43.44	2.72	22 55 59.1	4.1	I.279118	6 18	3 51
5	17 4 47.06	+ 3.62	-22 56 4.5	- 5.4	I.279892	6 10	3 51
7	17 4 51.57	4.51	22 56 11.0	6.5	I.280667	6 2	3 51
9	17 4 56.97	5.40	22 56 18.7	7.7	I.281442	5 55	3 51
11	17 5 3.25	6.28	22 56 27.5	8.8	I.282217	5 47	3 51
13	17 5 10.42	7.17	22 56 37.4	9.9	I.282989	5 39	3 51
15	17 5 18.47	+ 8.05	-22 56 48.5	-11.1	I.283759	5 31	3 51
17	17 5 27.38	8.91	22 57 0.7	12.2	I.284526	5 24	3 51
19	17 5 37.15	9.77	22 57 14.0	13.3	I.285289	5 16	3 51
21	17 5 47.79	10.64	22 57 28.3	14.3	I.286047	5 8	3 51
23	17 5 59.27	11.48	22 57 43.7	15.4	I.286799	5 1	3 51
25	17 6 11.59	+12.32	-22 58 0.1	-16.4	I.287545	4 53	3 51
27	17 6 24.75	13.16	22 58 17.5	17.4	I.288283	4 45	3 51
29	17 6 38.74	13.99	22 58 35.9	18.4	I.289014	4 38	3 51
Oct. 1	17 6 53.54	14.80	22 58 55.2	19.3	I.289736	4 30	3 51
3	17 7 9.15	15.61	22 59 15.5	20.3	I.290448	4 22	3 51
5	17 7 25.56	+16.41	-22 59 36.7	-21.2	I.291150	4 15	3 50
7	17 7 42.74	17.18	22 59 58.7	22.0	I.291840	4 7	3 50
9	17 8 0.68	17.94	23 0 21.6	22.9	I.292519	3 59	3 50
11	17 8 19.36	18.68	23 0 45.3	23.7	I.293185	3 52	3 50
13	17 8 38.77	19.41	23 1 9.8	24.5	I.293838	3 44	3 50
15	17 8 58.89	+20.12	-23 1 35.0	-25.2	I.294477	3 37	3 50
17	17 9 19.71	20.82	23 2 0.8	25.8	I.295102	3 29	3 50
19	17 9 41.20	21.49	23 2 27.3	26.5	I.295712	3 22	3 50
21	17 10 3.36	22.16	23 2 54.4	27.1	I.296306	3 14	3 50
23	17 10 26.16	22.80	23 3 22.1	27.7	I.296884	3 7	3 50
25	17 10 49.59	+23.43	-23 3 50.3	-28.2	I.297446	2 59	3 50
27	17 11 13.63	24.04	23 4 19.0	28.7	I.297990	2 52	3 50
29	17 11 38.26	24.63	23 4 48.2	29.2	I.298516	2 44	3 50
31	17 12 3.46	25.20	23 5 17.8	29.6	I.299024	2 37	3 50
Nov. 2	17 12 29.21	25.75	23 5 47.8	30.0	I.299513	2 29	3 50

Wahrer geocentrischer Ort.

$\overset{h}{\circ}$ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Oct. 31	17 ^h 12 ^m 3.46 ^s		—23° 5' 17.8"		I.299024	2 ^h 37 ^m	3 ^h 50 ^m
Nov. 2	17 12 29.21	+25.75	23 5 47.8	—30.0	I.299513	2 29	3 50
4	17 12 55.48	26.27	23 6 18.1	30.3	I.299983	2 22	3 50
6	17 13 22.26	26.78	23 6 48.8	30.7	I.300432	2 14	3 50
8	17 13 49.51	27.25	23 7 19.7	30.9	I.300861	2 7	3 50
		+27.71		—31.1			
10	17 14 17.22	28.14	—23 7 50.8	31.3	I.301269	2 0	3 49
12	17 14 45.36	28.54	23 8 22.1	31.4	I.301656	1 52	3 49
14	17 15 13.90	28.92	23 8 53.5	31.5	I.302022	1 45	3 49
16	17 15 42.82	29.29	23 9 25.0	31.6	I.302366	1 37	3 49
18	17 16 12.11	29.64	23 9 56.6	—31.6	I.302689	1 30	3 49
20	17 16 41.75	29.95	—23 10 28.2	31.5	I.302989	1 23	3 49
22	17 17 11.70	30.24	23 10 59.7	31.6	I.303267	1 15	3 49
24	17 17 41.94	30.50	23 11 31.3	31.5	I.303521	1 8	3 49
26	17 18 12.44	30.75	23 12 2.8	31.4	I.303752	1 0	3 49
28	17 18 43.19	30.97	23 12 34.2	—31.2	I.303960	0 53	3 49
30	17 19 14.16	31.15	—23 13 5.4	31.0	I.304144	0 46	3 49
Dec. 2	17 19 45.31	31.32	23 13 36.4	30.8	I.304304	0 38	3 49
4	17 20 16.63	31.45	23 14 7.2	30.6	I.304440	0 31	3 49
6	17 20 48.08	31.55	23 14 37.8	30.4	I.304552	0 24	3 49
8	17 21 19.63	31.63	23 15 8.2	—30.0	I.304640	0 16	3 49
10	17 21 51.26	31.68	—23 15 38.2	29.7	I.304704	0 9	3 49
12	17 22 22.94	31.70	23 16 7.9	29.3	I.304743	0 2	3 48
14	17 22 54.64	31.71	23 16 37.2	28.9	I.304758	23 54	3 48
16	17 23 26.35	31.69	23 17 6.1	28.5	I.304748	23 47	3 48
18	17 23 58.04	31.64	23 17 34.6	—28.2	I.304714	23 39	3 48
20	17 24 29.68	31.57	—23 18 2.8	27.7	I.304656	23 32	3 48
22	17 25 1.25	31.47	23 18 30.5	27.3	I.304574	23 25	3 48
24	17 25 32.72	31.34	23 18 57.8	26.7	I.304467	23 17	3 48
26	17 26 4.06	31.18	23 19 24.5	26.3	I.304336	23 10	3 48
28	17 26 35.24	31.00	23 19 50.8	—25.8	I.304181	23 3	3 48
30	17 27 6.24	30.78	—23 20 16.6	25.2	I.304002	22 55	3 48
32	17 27 37.02	30.55	23 20 41.8	24.8	I.303799	22 48	3 48
34	17 28 7.57		23 21 6.6		I.303572	22 41	3 48

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Jan. 0	^h 5 ^m 59 ^s 15.19		+22° 15' 12.3"	+1.6"	I.461121	^h 11 ^m 23	^h 8 ^m 14
2	5 59 0.77	-14.42	22 15 13.9	1.8	I.461215	11 14	8 14
4	5 58 46.47	14.30	22 15 15.7	2.0	I.461327	11 6	8 14
6	5 58 32.33	14.14	22 15 17.7	2.0	I.461458	10 58	8 14
8	5 58 18.36	13.97	22 15 19.7	+2.1	I.461607	10 50	8 14
10	5 58 4.60	-13.76	+22 15 21.8	2.2	I.461774	10 42	8 14
12	5 57 51.06	13.54	22 15 24.0	2.3	I.461959	10 34	8 14
14	5 57 37.76	13.30	22 15 26.3	2.4	I.462161	10 26	8 14
16	5 57 24.73	13.03	22 15 28.7	2.6	I.462380	10 18	8 14
18	5 57 12.00	12.73	22 15 31.3	+2.7	I.462616	10 10	8 14
20	5 56 59.58	-12.42	+22 15 34.0	2.8	I.462868	10 1	8 14
22	5 56 47.49	12.09	22 15 36.8	2.9	I.463135	9 53	8 14
24	5 56 35.74	11.75	22 15 39.7	3.1	I.463418	9 45	8 14
26	5 56 24.36	11.38	22 15 42.8	3.2	I.463716	9 37	8 14
28	5 56 13.36	11.00	22 15 46.0	+3.3	I.464029	9 29	8 14
30	5 56 2.77	-10.59	+22 15 49.3	3.4	I.464356	9 21	8 14
Febr. 1	5 55 52.59	10.18	22 15 52.7	3.6	I.464696	9 13	8 14
3	5 55 42.84	9.75	22 15 56.3	3.7	I.465050	9 5	8 14
5	5 55 33.54	9.30	22 16 0.0	3.8	I.465417	8 57	8 14
7	5 55 24.71	8.83	22 16 3.8	+4.0	I.465796	8 49	8 14
9	5 55 16.36	-8.35	+22 16 7.8	4.1	I.466187	8 41	8 14
11	5 55 8.51	7.85	22 16 11.9	4.2	I.466589	8 33	8 14
13	5 55 1.17	7.34	22 16 16.1	4.3	I.467001	8 25	8 14
15	5 54 54.35	6.82	22 16 20.4	4.5	I.467424	8 17	8 14
17	5 54 48.06	6.29	22 16 24.9	+4.6	I.467856	8 9	8 14
19	5 54 42.30	-5.76	+22 16 29.5	4.7	I.468297	8 1	8 14
21	5 54 37.09	5.21	22 16 34.2	4.9	I.468746	7 53	8 14
23	5 54 32.43	4.66	22 16 39.1	5.0	I.469202	7 45	8 14
25	5 54 28.33	4.10	22 16 44.1	5.1	I.469665	7 37	8 14
27	5 54 24.80	3.53	22 16 49.2	+5.2	I.470135	7 29	8 14
März 1	5 54 21.84	-2.96	+22 16 54.4	5.4	I.470611	7 21	8 14
3	5 54 19.46	2.38	22 16 59.8	5.5	I.471092	7 13	8 14
5	5 54 17.66	1.80	22 17 5.3	5.6	I.471578	7 5	8 14
7	5 54 16.45	1.21	22 17 10.9	5.6	I.472067	6 57	8 14
9	5 54 15.83	0.62	22 17 16.5	+5.8	I.472560	6 49	8 14
11	5 54 15.80	-0.03	+22 17 22.3	5.9	I.473055	6 42	8 14
13	5 54 16.37	+0.57	22 17 28.2	5.9	I.473552	6 34	8 14
15	5 54 17.53	1.16	22 17 34.1	6.0	I.474051	6 26	8 14
17	5 54 19.29	1.76	22 17 40.1	6.2	I.474551	6 18	8 14
19	5 54 21.63	2.34	22 17 46.3		I.475051	6 10	8 14

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
März 17	^h 5 ^m 54 ^s 19.29	+ 2.34	+22° 17' 40".I	+6.2	I.47455I	6 ^h 18 ^m	8 ^h 14 ^m
19	5 54 21.63	2.93	22 17 46.3	6.2	I.47505I	6 10	8 14
21	5 54 24.56	3.51	22 17 52.5	6.2	I.47555I	6 2	8 14
23	5 54 28.07	4.09	22 17 58.7	6.2	I.476049	5 54	8 14
25	5 54 32.16	+ 4.67	22 18 4.9	+6.3	I.476546	5 47	8 14
27	5 54 36.83	5.24	+22 18 11.2	6.4	I.477040	5 39	8 14
29	5 54 42.07	5.81	22 18 17.6	6.4	I.477532	5 31	8 14
31	5 54 47.88	6.37	22 18 24.0	6.4	I.47802I	5 23	8 14
April 2	5 54 54.25	6.92	22 18 30.4	6.3	I.478507	5 16	8 14
4	5 55 1.17	+ 7.47	22 18 36.7	+6.4	I.478988	5 8	8 14
6	5 55 8.64	8.02	+22 18 43.1	6.3	I.479465	5 0	8 14
8	5 55 16.66	8.55	22 18 49.4	6.3	I.479936	4 52	8 14
10	5 55 25.21	9.08	22 18 55.7	6.2	I.48040I	4 44	8 14
12	5 55 34.29	9.60	22 19 1.9	6.2	I.480860	4 37	8 14
14	5 55 43.89	+10.10	22 19 8.1	+6.2	I.481312	4 29	8 14
16	5 55 53.99	10.59	+22 19 14.3	6.1	I.481756	4 21	8 14
18	5 56 4.58	11.08	22 19 20.4	5.9	I.482193	4 14	8 14
20	5 56 15.66	11.55	22 19 26.3	5.9	I.48262I	4 6	8 14
22	5 56 27.21	12.00	22 19 32.2	5.8	I.48304I	3 58	8 14
24	5 56 39.21	+12.45	22 19 38.0	+5.6	I.483452	3 50	8 14
26	5 56 51.66	12.89	+22 19 43.6	5.5	I.483853	3 43	8 14
28	5 57 4.55	13.32	22 19 49.1	5.4	I.484245	3 35	8 14
30	5 57 17.87	13.73	22 19 54.5	5.3	I.484627	3 27	8 14
Mai 2	5 57 31.60	14.14	22 19 59.8	5.1	I.484998	3 20	8 14
4	5 57 45.74	+14.53	22 20 4.9	+4.9	I.485358	3 12	8 14
6	5 58 0.27	14.90	+22 20 9.8	4.8	I.485706	3 5	8 14
8	5 58 15.17	15.27	22 20 14.6	4.5	I.486043	2 57	8 14
10	5 58 30.44	15.61	22 20 19.1	4.4	I.486368	2 49	8 14
12	5 58 46.05	15.94	22 20 23.5	4.1	I.486681	2 42	8 14
14	5 59 1.99	+16.25	22 20 27.6	+3.9	I.486981	2 34	8 14
16	5 59 18.24	16.56	+22 20 31.5	3.7	I.487269	2 26	8 14
18	5 59 34.80	16.85	22 20 35.2	3.5	I.487543	2 19	8 14
20	5 59 51.65	17.11	22 20 38.7	3.3	I.487804	2 11	8 14
22	6 0 8.76	17.36	22 20 42.0	3.0	I.488051	2 4	8 14
24	6 0 26.12	+17.61	22 20 45.0	+2.7	I.488285	1 56	8 14
26	6 0 43.73	17.84	+22 20 47.7	2.5	I.488505	1 48	8 14
28	6 1 1.57	18.05	22 20 50.2	2.2	I.488711	1 41	8 14
30	6 1 19.62	18.24	22 20 52.4	1.9	I.488903	1 33	8 14
Juni 1	6 1 37.86	18.43	22 20 54.3	1.6	I.489080	1 26	8 14
3	6 1 56.29		22 20 55.9		I.489243	1 18	8 14

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Juni	I 6 ^h 1 ^m 37.86		+22° 20' 54.3		I.489080	^h 2 ^m 0	8 ^h 14 ^m
	3 6 1 56.29	+18.43	22 20 55.9	+1.6	I.489243	I 18	8 14
	5 6 2 14.89	18.60	22 20 57.3	1.4	I.489390	I 10	8 14
	7 6 2 33.63	18.74	22 20 58.4	1.1	I.489523	I 3	8 14
	9 6 2 52.50	18.87	22 20 59.2	0.8	I.489641	0 55	8 14
		+18.99		+0.6			
	11 6 3 11.49		+22 20 59.8		I.489744	0 48	8 14
	13 6 3 30.58	19.09	22 21 0.0	+0.2	I.489831	0 40	8 14
	15 6 3 49.74	19.16	22 21 0.0	0.0	I.489903	0 33	8 14
	17 6 4 8.96	19.22	22 20 59.6	-0.4	I.489960	0 25	8 14
	19 6 4 28.24	19.28	22 20 59.0	0.6	I.490002	0 18	8 14
		+19.31		-1.0			
	21 6 4 47.55		+22 20 58.0		I.490029	0 10	8 14
	23 6 5 6.87	19.32	22 20 56.8	1.2	I.490040	0 2	8 14
25 6 5 26.20	19.33	22 20 55.3	1.5	I.490036	23 55	8 14	
27 6 5 45.51	19.31	22 20 53.6	1.7	I.490016	23 47	8 14	
29 6 6 4.79	19.28	22 20 51.5	2.1	I.489981	23 40	8 14	
	+19.24		-2.4				
Juli	I 6 6 24.03		+22 20 49.1		I.489931	23 32	8 14
	3 6 6 43.21	19.18	22 20 46.5	2.6	I.489865	23 25	8 14
	5 6 7 2.31	19.10	22 20 43.6	2.9	I.489784	23 17	8 14
	7 6 7 21.31	19.00	22 20 40.4	3.2	I.489688	23 9	8 14
	9 6 7 40.20	18.89	22 20 37.0	3.4	I.489577	23 2	8 14
		+18.76		-3.7			
	11 6 7 58.96		+22 20 33.3		I.489451	22 54	8 14
	13 6 8 17.57	18.61	22 20 29.4	3.9	I.489310	22 47	8 14
	15 6 8 36.01	18.44	22 20 25.3	4.1	I.489154	22 39	8 14
	17 6 8 54.28	18.27	22 20 20.9	4.4	I.488984	22 32	8 14
	19 6 9 12.35	18.07	22 20 16.4	4.5	I.488800	22 24	8 14
		+17.87		-4.8			
	21 6 9 30.22		+22 20 11.6		I.488601	22 16	8 14
	23 6 9 47.87	17.65	22 20 6.6	5.0	I.488388	22 9	8 14
25 6 10 5.29	17.42	22 20 1.4	5.2	I.488162	22 1	8 14	
27 6 10 22.45	17.16	22 19 56.0	5.4	I.487922	21 54	8 14	
29 6 10 39.35	16.90	22 19 50.4	5.6	I.487668	21 46	8 14	
	+16.62		-5.7				
Aug.	31 6 10 55.97		+22 19 44.7		I.487401	21 38	8 14
	2 6 11 12.29	16.32	22 19 38.8	5.9	I.487121	21 31	8 14
	4 6 11 28.30	16.01	22 19 32.8	6.0	I.486828	21 23	8 14
	6 6 11 43.98	15.68	22 19 26.7	6.1	I.486522	21 16	8 14
	8 6 11 59.32	15.34	22 19 20.4	6.3	I.486204	21 8	8 14
		+14.98		-6.3			
	10 6 12 14.30		+22 19 14.1		I.485875	21 0	8 14
	12 6 12 28.91	14.61	22 19 7.7	6.4	I.485534	20 53	8 14
	14 6 12 43.14	14.23	22 19 1.3	6.4	I.485182	20 45	8 14
	16 6 12 56.98	13.84	22 18 54.7	6.6	I.484819	20 37	8 14
18 6 13 10.41	13.43	22 18 48.1	6.6	I.484445	20 30	8 14	

Wahrer geocentrischer Ort.

$^{\circ}$ Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Aug. 16	6 ^h 12 ^m 56.98		+22° 18' 54.7		I.484819	20 ^h 37 ^m	8 ^h 14 ^m
18	6 13 10.41	+13.43	22 18 48.1	-6.6	I.484445	20 30	8 14
20	6 13 23.42	13.01	22 18 41.5	6.6	I.484061	20 22	8 14
22	6 13 36.01	12.59	22 18 34.8	6.7	I.483667	20 14	8 14
24	6 13 48.16	12.15	22 18 28.1	6.7	I.483264	20 7	8 14
26	6 13 59.86	+11.70		-6.6			
28	6 14 11.10	11.24	+22 18 21.5	6.6	I.482851	19 59	8 14
30	6 14 21.86	10.76	22 18 14.9	6.6	I.482430	19 51	8 14
Sept. 1	6 14 32.13	10.27	22 18 8.3	6.5	I.482000	19 44	8 14
3	6 14 41.90	9.77	22 18 1.8	6.5	I.481563	19 36	8 14
5	6 14 51.17	+ 9.27	22 17 55.3	-6.4	I.481118	19 28	8 14
7	6 14 59.92	8.75	+22 17 48.9	6.3	I.480666	19 20	8 14
9	6 15 8.15	8.23	22 17 42.6	6.2	I.480208	19 13	8 14
11	6 15 15.84	7.69	22 17 36.4	6.1	I.479744	19 5	8 14
13	6 15 22.99	7.15	22 17 30.3	6.0	I.479274	18 57	8 14
15	6 15 29.60	+ 6.61	22 17 24.3	-5.8	I.478800	18 49	8 14
17	6 15 35.66	6.06	+22 17 18.5	5.7	I.478321	18 42	8 14
19	6 15 41.17	5.51	22 17 12.8	5.6	I.477838	18 34	8 14
21	6 15 46.11	4.94	22 17 7.2	5.5	I.477352	18 26	8 14
23	6 15 50.49	4.38	22 17 1.9	5.3	I.476863	18 18	8 14
25	6 15 54.30	+ 3.81	22 16 56.7	-5.0	I.476371	18 10	8 14
27	6 15 57.53	3.23	+22 16 51.7	4.9	I.475878	18 3	8 14
29	6 16 0.18	2.65	22 16 46.8	4.6	I.475383	17 55	8 14
Oct. 1	6 16 2.25	2.07	22 16 42.2	4.3	I.474888	17 47	8 14
3	6 16 3.73	1.48	22 16 37.9	4.1	I.474392	17 39	8 14
5	6 16 4.62	+ 0.89	22 16 33.8	-3.9	I.473897	17 31	8 14
7	6 16 4.93	+ 0.31	+22 16 29.9	3.7	I.473403	17 23	8 14
9	6 16 4.65	- 0.28	22 16 26.2	3.4	I.472911	17 15	8 14
11	6 16 3.79	0.86	22 16 22.8	3.2	I.472421	17 8	8 14
13	6 16 2.34	1.45	22 16 19.6	3.0	I.471934	17 0	8 14
15	6 16 0.33	- 2.01	22 16 16.6	-2.7	I.471451	16 52	8 14
17	6 15 57.74	2.59	+22 16 13.9	2.4	I.470972	16 44	8 14
19	6 15 54.58	3.16	22 16 11.5	2.2	I.470497	16 36	8 14
21	6 15 50.86	3.72	22 16 9.3	1.8	I.470028	16 28	8 14
23	6 15 46.58	4.28	22 16 7.5	1.6	I.469565	16 20	8 14
25	6 15 41.74	- 4.84	22 16 5.9	-1.4	I.469109	16 12	8 14
27	6 15 36.36	5.38	+22 16 4.5	1.1	I.468659	16 4	8 14
29	6 15 30.43	5.93	22 16 3.4	0.9	I.468217	15 56	8 14
31	6 15 23.97	6.46	22 16 2.5	0.5	I.467783	15 48	8 14
Nov. 2	6 15 16.99	6.98	22 16 2.0	0.3	I.467358	15 40	8 14
			22 16 1.7		I.466943	15 32	8 14

Wahrer geocentrischer Ort.

\odot^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Oestl. Stunden- Winkel	Halber Tag- bogen
Oct. 31	6 ^h 15 ^m 23.97		+22 ^c 16 ['] 2.0	"	I.467358	15 ^h 40 ^m	8 ^h 14 ^m
Nov. 2	6 15 16.99	-6.98	22 16 1.7	-0.3	I.466943	15 32	8 14
4	6 15 9.50	7.49	22 16 1.7	0.0	I.466538	15 24	8 14
6	6 15 1.51	7.99	22 16 1.9	+0.2	I.466143	15 16	8 14
8	6 14 53.04	8.47	22 16 2.3	0.4	I.465759	15 8	8 14
10	6 14 44.10	-8.94	+22 16 3.0	+0.7	I.465388	15 0	8 14
12	6 14 34.70	9.40	22 16 3.9	0.9	I.465029	14 52	8 14
14	6 14 24.86	9.84	22 16 5.1	1.2	I.464683	14 44	8 14
16	6 14 14.60	10.26	22 16 6.5	1.4	I.464350	14 36	8 14
18	6 14 3.92	10.68	22 16 8.2	1.7	I.464030	14 28	8 14
20	6 13 52.85	-11.07	+22 16 10.1	+1.9	I.463725	14 20	8 14
22	6 13 41.39	11.46	22 16 12.2	2.1	I.463434	14 12	8 14
24	6 13 29.57	11.82	22 16 14.4	2.2	I.463158	14 4	8 14
26	6 13 17.41	12.16	22 16 16.9	2.5	I.462898	13 56	8 14
28	6 13 4.92	12.49	22 16 19.6	2.7	I.462653	13 47	8 14
30	6 12 52.13	-12.79	+22 16 22.5	+2.9	I.462425	13 39	8 14
Dec. 2	6 12 39.05	13.08	22 16 25.6	3.1	I.462214	13 31	8 14
4	6 12 25.71	13.34	22 16 28.9	3.3	I.462020	13 23	8 14
6	6 12 12.13	13.58	22 16 32.3	3.4	I.461843	13 15	8 14
8	6 11 58.33	13.80	22 16 35.8	3.5	I.461684	13 7	8 14
10	6 11 44.35	+13.98	+22 16 39.5	+3.7	I.461542	12 59	8 14
12	6 11 30.20	14.15	22 16 43.4	3.9	I.461418	12 51	8 14
14	6 11 15.90	14.30	22 16 47.4	4.0	I.461313	12 43	8 14
16	6 11 1.47	14.43	22 16 51.5	4.1	I.461226	12 34	8 14
18	6 10 46.94	14.53	22 16 55.7	4.2	I.461157	12 26	8 14
20	6 10 32.32	-14.62	+22 17 0.1	+4.4	I.461107	12 18	8 14
22	6 10 17.65	14.67	22 17 4.6	4.5	I.461075	12 10	8 14
24	6 10 2.94	14.71	22 17 9.2	4.6	I.461062	12 2	8 14
26	6 9 48.23	14.71	22 17 13.9	4.7	I.461068	11 54	8 14
28	6 9 33.53	14.70	22 17 18.6	4.7	I.461093	11 46	8 14
30	6 9 18.87	-14.66	+22 17 23.4	+4.8	I.461137	11 37	8 14
32	6 9 4.27	14.60	22 17 28.3	4.9	I.461200	11 29	8 14
34	6 8 49.77	14.50	22 17 33.3	5.0	I.461281	11 21	8 14

MERCUR 1902.

Mittlere Ekliptik und Aequinoctium 1900.0.

o ^h		Log.	Länge	Red.	Breite	o ^h		Log.	Länge	Red.	Breite
Mittl. Zeit	Rad. v.	in d. Bahn	a. d. Ekl.			Mittl. Zeit	Rad. v.	in d. Bahn	a. d. Ekl.		
Jan.	4	9.6526	287° 36'	-11'	-6° 5'	Juli	8	9.6149	316° 46'	0'	-7° 0'
	9	9.6345	303 4	- 6	6 47		13	9.5852	335 41	+ 8	6 38
	14	9.6097	320 8	+ 1	7 0		18	9.5513	357 35	+13	5 19
	19	9.5791	339 32	+ 9	6 28		23	9.5180	23 14	+10	-2 50
	24	9.5448	2 6	+13	4 57		28	9.4939	52 36	- 2	+0 40
Febr.	29	9.5125	28 29	+ 8	-2 14	Aug.	2	9.4886	84 6	-12	+4 12
	3	9.4913	58 26	- 5	+1 22		7	9.5046	114 49	- 9	6 29
	8	9.4901	90 1	-13	4 45		12	9.5347	142 20	+ 2	6 58
	13	9.5095	120 16	- 7	6 42		17	9.5692	165 59	+11	6 8
	18	9.5411	147 4	+ 4	6 54		22	9.6012	186 14	+13	4 35
März	23	9.5755	170 1	+12	+5 53	Sept.	27	9.6278	203 54	+ 9	+2 45
	28	9.6067	189 43	+12	4 15		1	9.6479	219 46	+ 3	+0 54
	5	9.6321	207 0	+ 8	2 24		6	9.6613	234 28	- 3	-0 53
	10	9.6509	222 36	+ 2	+0 33		11	9.6681	248 29	- 9	2 33
	15	9.6631	237 8	- 4	-1 13		16	9.6683	262 16	-12	4 1
April	20	9.6686	251 4	-10	-2 50	Oct.	21	9.6621	276 16	-13	-5 17
	25	9.6677	264 52	-12	4 17		26	9.6492	290 53	-10	6 17
	30	9.6602	278 56	-13	5 30		1	9.6296	306 38	- 5	6 53
	4	9.6460	293 44	- 9	6 25		6	9.6035	324 9	+ 3	6 57
	9	9.6252	309 46	- 3	6 57		11	9.5718	344 10	+10	6 14
Mai	14	9.5979	327 41	+ 5	-6 53	Nov.	16	9.5373	7 32	+13	-4 27
	19	9.5654	348 16	+11	5 59		21	9.5065	34 46	+ 5	-1 30
	24	9.5310	12 20	+12	3 59		26	9.4891	65 17	- 8	+2 11
	29	9.5019	40 17	+ 3	-0 50		31	9.4928	96 50	-13	5 20
	4	9.4881	71 13	-10	+2 51		5	9.5157	126 27	- 5	6 53
Juni	9	9.4958	102 37	-12	+5 46	Dec.	10	9.5487	152 24	+ 7	+6 45
	14	9.5215	131 37	- 2	6 58		15	9.5827	174 34	+12	5 33
	19	9.5552	156 50	+ 8	6 35		20	9.6128	193 40	+12	3 51
	24	9.5888	178 22	+13	5 16		25	9.6368	210 32	+ 7	2 0
	29	9.6178	196 59	+11	3 31		30	9.6542	225 51	+ 1	+0 9
Juli	3	9.6406	213 30	+ 6	+1 39	Juli	5	9.6649	240 12	- 6	-1 35
	8	9.6567	228 36	- 1	-0 11		10	9.6690	254 5	-10	3 10
	13	9.6661	242 50	- 7	1 53		15	9.6666	267 54	-13	4 34
	18	9.6690	256 40	-11	3 27		20	9.6576	282 6	-12	5 44
	23	9.6654	270 32	-13	4 48		25	9.6421	297 7	- 8	6 35
28	9.6552	284 50	-12	-5 55	30	9.6198	313 30	- 2	-6 59		
3	9.6384	300 4	- 7	6 42	35	9.5912	331 56	+ 6	6 46		
8	9.6149	316 46	0	7 0	40	9.5579	353 13	+12	5 39		

$$\Omega = 47^\circ 8'.6; \quad i = 7^\circ 0'.17; \quad m = \frac{1}{6000000}$$

VENUS 1902.					ERDE 1902.	
Mittl. Ekliptik und Aequin. 1900.0.					Mittl. Aequ. 1900.0.	
o ^h Mittl. Zeit	Log. Radius v.	Länge in der Bahn	Red. auf d. Eklipt.	Breite	Log. Radius vect.	Länge
Jan. 4	9.8575	78° 3.4	-0.2	+0° 8.1	9.99266	103° 9.5
14	9.8569	94 14.2	-1.8	1 4.4	9.99282	113 21.1
24	9.8565	110 27.1	-2.8	1 55.8	9.99318	123 31.7
Febr. 3	9.8564	126 41.3	-3.0	2 38.0	9.99378	133 41.0
13	9.8564	142 55.8	-2.2	3 7.6	9.99456	143 48.6
23	9.8567	159 9.4	-0.7	+3 22.2	9.99547	153 53.5
März 5	9.8572	175 21.2	+1.0	3 20.8	9.99656	163 55.7
15	9.8579	191 30.4	+2.4	3 3.4	9.99772	173 55.1
25	9.8587	207 36.3	+3.0	2 31.7	9.99893	183 50.8
April 4	9.8595	223 38.6	+2.7	1 48.2	0.00020	193 43.2
14	9.8603	239 37.3	+1.6	+0 56.6	0.00143	203 32.4
24	9.8610	255 32.6	0.0	+0 0.8	0.00261	213 18.1
Mai 4	9.8616	271 24.9	-1.6	-0 54.9	0.00374	223 0.7
14	9.8621	287 15.0	-2.7	1 46.3	0.00472	232 40.8
24	9.8623	303 3.7	-3.0	2 29.6	0.00556	242 18.0
Juni 3	9.8623	318 52.0	-2.4	-3 1.5	0.00627	251 53.3
13	9.8620	334 40.9	-1.1	3 19.8	0.00677	261 27.3
23	9.8616	350 31.2	+0.5	3 22.9	0.00708	270 59.8
Juli 3	9.8610	6 23.9	+2.0	3 10.5	0.00722	280 31.8
13	9.8602	22 19.6	+2.9	2 43.5	0.00712	290 4.0
23	9.8594	38 18.7	+2.9	-2 3.8	0.00682	299 36.4
Aug. 2	9.8586	54 21.5	+2.0	1 14.3	0.00636	309 10.0
12	9.8578	70 27.9	+0.5	-0 18.8	0.00568	318 45.2
22	9.8572	86 37.5	-1.1	+0 38.3	0.00484	328 22.1
Sept. 1	9.8567	102 49.6	-2.4	1 32.6	0.00390	338 1.7
11	9.8564	119 3.4	-3.0	+2 19.6	0.00279	347 44.0
21	9.8564	135 17.9	-2.6	2 55.4	0.00161	357 29.1
Oct. 1	9.8566	151 32.0	-1.4	3 17.3	0.00040	7 17.7
11	9.8570	167 44.8	+0.2	3 23.5	9.99913	17 9.8
21	9.8576	183 55.3	+1.8	3 13.5	9.99790	27 4.9
31	9.8583	200 2.8	+2.8	+2 48.2	9.99675	37 3.6
Nov. 10	9.8591	216 6.8	+3.0	2 9.9	9.99565	47 5.5
20	9.8599	232 7.2	+2.2	1 21.6	9.99469	57 9.9
30	9.8607	248 4.0	+0.8	+0 27.2	9.99391	67 17.1
Dec. 10	9.8614	263 57.6	-0.8	-0 29.0	9.99327	77 26.2
20	9.8619	279 48.7	-2.2	-1 22.9	9.99287	87 36.5
30	9.8622	295 37.9	-3.0	2 10.5	9.99269	97 47.9
40	9.8623	311 26.3	-2.8	2 48.1	9.99271	107 59.6

$$\Omega = 75^\circ 46'.4; \quad i = 3^\circ 23'.6; \quad m = \frac{1}{408000}$$

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

MARS 1902.

Mittlere Ekliptik und Aequinoctium 1900.0.

oh Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	
Jan.	4	0.14241	315° 5.6	-0.1	-1° 50.8
	14	0.14128	321 23.9	+0.1	1 50.9
	24	0.14060	327 43.7	0.3	1 49.7
Febr.	3	0.14036	334 4.3	0.5	1 47.1
	13	0.14058	340 24.9	0.6	1 43.2
März	23	0.14125	346 44.8	+0.7	-1 38.0
	5	0.14236	353 3.1	0.8	1 31.7
	15	0.14389	359 19.1	0.9	1 24.3
	25	0.14581	5 32.2	0.9	1 16.0
April	4	0.14810	11 41.6	0.9	1 6.9
	14	0.15071	17 46.9	+0.8	-0 57.1
	24	0.15361	23 47.6	0.7	0 46.9
Mai	4	0.15676	29 43.3	0.6	0 36.2
	14	0.16011	35 33.7	0.4	0 25.4
	24	0.16363	41 18.6	0.2	0 14.4
Juni	3	0.16726	46 57.8	+0.1	-0 3.5
	13	0.17098	52 31.4	-0.1	+0 7.3
	23	0.17474	57 59.3	0.3	0 17.8
Juli	3	0.17850	63 21.5	0.4	0 28.0
	13	0.18224	68 38.2	0.6	0 37.7
	23	0.18592	73 49.5	-0.7	+0 47.0
Aug.	2	0.18952	78 55.7	0.8	0 55.8
	12	0.19300	83 56.9	0.8	1 4.0
	22	0.19635	88 53.4	0.9	1 11.6
Sept.	1	0.19954	93 45.5	0.9	1 18.5
	11	0.20257	98 33.4	-0.9	+1 24.8
	21	0.20541	103 17.4	0.8	1 30.4
Oct.	1	0.20805	107 57.9	0.8	1 35.4
	11	0.21048	112 35.2	0.7	1 39.6
	21	0.21268	117 9.5	0.6	1 43.2
Nov.	31	0.21466	121 41.1	-0.5	+1 46.1
	10	0.21640	126 10.5	0.4	1 48.4
	20	0.21790	130 37.9	0.3	1 49.9
Dec.	30	0.21915	135 3.5	-0.1	1 50.8
	10	0.22014	139 27.8	0.0	1 51.0
	20	0.22089	143 51.1	+0.2	+1 50.6
	30	0.22137	148 13.6	0.3	1 49.5
	40	0.22160	152 35.6	0.4	1 47.8

$$\Omega = 48^\circ 46'.8; \quad i = 1^\circ 51'.0; \quad m = \frac{1}{3093500}$$

JUPITER 1902.

Mittlere Ekliptik und Aequinoctium 1900.0.

o ^h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B ₀
Jan. 4	0.711053	293° 53' 44.8	-13.0	-0° 19' 37.5	-1.6
14	0.710751	294 44 47.1	13.7	0 20 45.1	1.6
24	0.710449	295 35 53.7	14.4	0 21 52.6	1.7
Febr. 3	0.710148	296 27 4.6	15.1	0 22 59.8	1.7
13	0.709849	297 18 19.7	15.7	0 24 6.9	1.7
23	0.709550	298 9 39.0	-16.4	-0 25 13.7	-1.7
März 5	0.709253	299 1 2.5	17.0	0 26 20.2	1.8
15	0.708956	299 52 30.3	17.6	0 27 26.5	1.8
25	0.708661	300 44 2.3	18.2	0 28 32.6	1.8
April 4	0.708367	301 35 38.5	18.8	0 29 38.3	1.8
14	0.708075	302 27 18.9	-19.4	-0 30 43.7	-1.9
24	0.707784	303 19 3.5	19.9	0 31 48.8	1.9
Mai 4	0.707495	304 10 52.2	20.5	0 32 53.5	1.9
14	0.707207	305 2 45.0	21.0	0 33 57.9	1.9
24	0.706920	305 54 42.0	21.5	0 35 1.9	2.0
Juni 3	0.706636	306 46 43.1	-22.0	-0 36 5.5	-2.0
13	0.706353	307 38 48.2	22.4	0 37 8.7	2.0
23	0.706072	308 30 57.4	22.9	0 38 11.4	2.0
Juli 3	0.705793	309 23 10.7	23.3	0 39 13.7	2.0
13	0.705516	310 15 27.9	23.7	0 40 15.6	2.1
23	0.705241	311 7 49.1	-24.1	-0 41 16.9	-2.1
Aug. 2	0.704968	312 0 14.3	24.4	0 42 17.8	2.1
12	0.704698	312 52 43.4	24.8	0 43 18.1	2.1
22	0.704429	313 45 16.4	25.1	0 44 17.9	2.1
Sept. 1	0.704163	314 37 53.3	25.4	0 45 17.2	2.1
11	0.703900	315 30 34.0	-25.6	-0 46 15.9	-2.2
21	0.703639	316 23 18.6	25.9	0 47 14.0	2.2
Oct. 1	0.703380	317 16 6.9	26.1	0 48 11.5	2.2
11	0.703124	318 8 58.9	26.3	0 49 8.4	2.2
21	0.702871	319 1 54.7	26.4	0 50 4.7	2.2
31	0.702621	319 54 54.2	-26.6	-0 51 0.3	-2.2
Nov. 10	0.702373	320 47 57.2	26.7	0 51 55.3	2.3
20	0.702129	321 41 3.9	26.8	0 52 49.6	2.3
30	0.701887	322 34 14.2	26.9	0 53 43.2	2.3
Dec. 10	0.701648	323 27 28.0	26.9	0 54 36.0	2.3
20	0.701413	324 20 45.2	-26.9	-0 55 28.2	-2.3
30	0.701180	325 14 5.9	26.9	0 56 19.6	2.3
40	0.700951	326 7 30.0	26.8	0 57 10.2	2.3

$$\Omega = 99^\circ 26' 34''.2; \quad i = 1^\circ 18' 31''.7; \quad m = \frac{1}{1047.355}$$

Mittlere Ekliptik und Aequinoctium 1900.0.

h^{h} Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
SATURN 1902.					
1901 Dec. 25	1.001992	288° 15' 32.9	+15.3	+0° 11' 50.6	+2.6
1902 Febr. 3	1.001832	289 28 2.2	11.2	0 8 42.1	2.7
März 15	1.001660	290 40 34.8	7.1	0 5 33.2	2.9
April 24	1.001476	291 53 11.1	+ 3.0	+0 2 24.0	3.1
Juni 3	1.001281	293 5 51.2	- 1.1	-0 0 45.4	3.3
Juli 13	1.001075	294 18 35.3	5.2	0 3 55.0	3.5
Aug. 22	1.000858	295 31 23.6	9.4	0 7 4.6	3.7
Oct. 1	1.000630	296 44 16.4	13.5	0 10 14.2	3.9
Nov. 10	1.000391	297 57 13.9	17.6	0 13 23.8	4.0
Dec. 20	1.000142	299 10 16.2	21.6	0 16 33.2	4.2
60	0.999882	300 23 23.6	-25.6	-0 19 42.4	+4.4

$$\Omega = 112^\circ 47' 10''.9; \quad i = 2^\circ 29' 32''.6; \quad m = \frac{1}{3501.6}$$

URANUS 1902.

1901 Dec. 25	1.281596	257° 16' 20.6	-1.2	-0° 3' 0.2	+3.6
1902 Febr. 3	1.281760	257 44 42.7	1.4	0 3 23.1	3.6
März 15	1.281923	258 13 3.4	1.5	0 3 46.0	3.6
April 24	1.282086	258 41 22.7	1.7	0 4 8.9	3.5
Juni 3	1.282249	259 9 40.6	1.8	0 4 31.7	3.5
Juli 13	1.282412	259 37 57.1	2.0	0 4 54.5	3.5
Aug. 22	1.282575	260 6 12.1	2.1	0 5 17.3	3.4
Oct. 1	1.282737	260 34 25.8	2.3	0 5 40.0	3.4
Nov. 10	1.282898	261 2 38.0	2.4	0 6 2.7	3.3
Dec. 20	1.283060	261 30 48.8	2.6	0 6 25.3	3.3
60	1.283221	261 58 58.2	-2.7	-0 6 47.9	+3.3

$$\Omega = 73^\circ 29'; \quad i = 0^\circ 46' 22''; \quad m = \frac{1}{22869}$$

NEPTUN 1902.

1901 Dec. 25	1.475457	90° 3' 1.1	+49.1	-1° 9' 31.2	-1.3
1902 Febr. 3	1.475470	90 17 30.6	49.1	1 9 10.6	1.3
März 15	1.475484	90 32 0.2	49.0	1 8 50.0	1.3
April 24	1.475498	90 46 29.7	48.9	1 8 29.3	1.3
Juni 3	1.475512	91 0 59.2	48.9	1 8 8.6	1.3
Juli 13	1.475526	91 15 28.8	48.8	1 7 47.7	1.3
Aug. 22	1.475541	91 29 58.4	48.7	1 7 26.8	1.3
Oct. 1	1.475556	91 44 28.0	48.6	1 7 5.8	1.2
Nov. 10	1.475571	91 58 57.6	48.5	1 6 44.7	1.2
Dec. 20	1.475586	92 13 27.3	48.4	1 6 23.6	1.2
60	1.475601	92 27 57.0	+48.3	-1 6 2.4	-1.2

$$\Omega = 130^\circ 40'; \quad i = 1^\circ 46' 46''; \quad m = \frac{1}{19700}$$

N a m e	Nr. des Fund.- Kat.	Gr.	AR. 1902.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Ein- von 0 ⁿ .0001	Decl. 1902.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Ein- von 0 ⁿ .001
α Androm.	1	2.0	0 ^h 3 ^m 19.197	+ 3.0928	+ 95	+28° 32' 57.99	+19.895	-156
β Cassiop.	2	2.1	0 3 56.629	+ 3.1759	+ 661	+58 36 32.99	+19.859	-190
[22 Androm.]	337	5.3	0 5 13.511	+ 3.1054	+ 15	+45 31 36.03	+20.030	- 16
γ Pegasi	3	2.6	0 8 11.284	+ 3.0845	- 7	+14 38 19.36	+20.027	- 13
[Br. 6]	338	6.4	0 10 39.069	+ 3.3106	- 192	+76 24 21.79	+20.009	- 21
ι Ceti	4	3.3	0 14 26.043	+ 3.0557	- 32	- 9 22 2.31	+19.981	- 32
ι2 Ceti	339	6.0	0 25 2.233	+ 3.0609	- 3	- 4 29 55.80	+19.923	- 9
[κ Cassiop.]	5	4.3	0 27 25.519	+ 3.3787	+ 9	+62 23 26.71	+19.887	- 22
ζ Cassiop.	6	4.0	0 31 30.467	+ 3.3208	+ 18	+53 21 27.28	+19.851	- 12
π Androm.	7	4.0	0 31 38.626	+ 3.1927	- 4	+33 10 47.51	+19.861	0
[ε Androm.]	8	4.1	0 33 22.483	+ 3.1610	- 184	+28 46 46.76	+19.589	-251
δ Androm.	9	3.3	0 34 5.152	+ 3.1986	+ 100	+30 19 29.55	+19.754	- 77
α Cassiop. ¹⁾	10	var.	0 34 56.438	+ 3.3772	+ 35	+55 59 59.55	+19.781	- 38
β Ceti	540	2.0	0 38 40.225	+ 3.0122	+ 147	-18 31 28.92	+19.801	+ 34
21 Cassiop.	340	6.0	0 39 9.976	+ 3.8812	- 88	+74 27 8.51	+19.724	- 36
ο Cassiop.	341	5.0	0 39 15.588	+ 3.3233	- 3	+47 44 52.72	+19.742	- 16
ζ Androm.	11	4.1	0 42 8.493	+ 3.1711	- 91	+23 44 2.97	+19.642	- 72
[η Cassiop.]	12	3.8	0 43 9.733	+ 3.5965	+1351	+57 17 47.49	+19.217	-482
[θ Piscium]	342	4.3	0 43 35.778	+ 3.1076	+ 35	+ 7 3 6.13	+19.653	- 37
[Br. 82]	343	6.0	0 44 46.251	+ 3.5952	- 30	+63 42 50.16	+19.651	- 19
γ Cassiop.	13	2.0	0 50 47.261	+ 3.5868	+ 13	+60 11 9.57	+19.546	- 15
μ Androm.	14	4.0	0 51 18.758	+ 3.3185	+ 141	+37 58 4.75	+19.600	+ 49
43 H. Ceph.	344	4.3	0 55 16.227	+ 7.4204	+ 699	+85 43 53.74	+19.461	- 11
ε Piscium	15	4.0	0 57 51.330	+ 3.1089	- 70	+ 7 21 45.72	+19.455	+ 39
[η Ceti]	541	3.1	I 3 39.547	+ 3.0160	+ 125	-10 42 6.39	+19.160	-124
[44 H. Ceph.]	345	5.6	I 3 47.253	+ 5.0196	+ 303	+79 9 7.99	+19.265	- 15
β Androm.	16	2.3	I 4 14.566	+ 3.3471	+ 144	+35 6 4.66	+19.186	- 84
[τ Piscium]	17	4.0	I 6 15.649	+ 3.2935	+ 45	+29 34 10.68	+19.208	- 12
ο Piscium	18	4.1	I 14 4.632	+ 3.2866	- 2	+26 44 56.63	+19.011	- 3
[ψ Cassiop.]	346	5.0	I 19 0.095	+ 4.1807	+ 112	+67 37 6.24	+18.881	+ 9
θ Ceti	21	3.0	I 19 7.469	+ 2.9968	- 68	- 8 41 20.12	+18.673	-196
δ Cassiop.	20	2.8	I 19 23.972	+ 3.8886	+ 386	+59 43 34.68	+18.826	- 36
α Ursae min.	19	2.0	I 23 24.298	+25.6296	+1315	+88 47 4.13	+18.737	- 2
η Piscium	22	3.6	I 26 14.221	+ 3.2027	- 2	+14 50 26.30	+18.646	- 3
40 Cassiop.	347	5.6	I 30 40.298	+ 4.7058	- 51	+72 32 26.36	+18.487	- 16

1) Größe zwischen 2.2 u. 2.8.

N a m e	Nr. des Fund.-Kat.	Gr.	AR. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .000r	Decl. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .001
υ Persei	23	3.6	1 31 ^h 58 ^m .356	+3.6599	+ 45	+48° 7' 54 ^s .65	+18.348	-111
43 Cassiop.	348	6.0	1 35 4.409	+4.3833	+ 67	+67 32 50.79	+18.346	- 5
[ν Piscium]	349	4.6	1 36 19.770	+3.1169	- 35	+ 4 59 30.45	+18.311	+ 5
φ Persei	24	4.0	1 37 30.799	+3.7360	+ 11	+50 11 42.08	+18.239	- 25
τ Ceti	542	3.3	1 39 30.844	+2.7842	-1223	-16 27 13.18	+19.046	+857
ο Piscium	25	4.1	1 40 12.988	+3.1618	+ 29	+ 8 39 52.59	+18.220	+ 54
Lac. ε Sculpt.	543	5.1	1 41 3.261	+2.8080	+ 79	-25 32 33.30	+18.068	- 66
ξ Ceti	544	3.0	1 46 37.322	+2.9584	+ 3	-10 49 8.81	+17.893	- 28
ε Cassiop.	26	3.3	1 47 20.256	+4.2702	+ 35	+63 11 15.31	+17.872	- 20
α Triang.	27	3.6	1 47 29.576	+3.4095	+ 4	+29 6 5.62	+17.659	-228
[γ Arietis] ¹⁾	28	4	1 48 9.015	+3.2833	+ 35	+18 48 48.43	+17.775	- 86
ξ Piscium	29	4.0	1 48 28.854	+3.1020	+ 4	+ 2 42 13.66	+17.868	+ 20
β Arietis	30	2.8	1 49 13.424	+3.3050	+ 50	+20 19 44.88	+17.716	-102
50 Cassiop.	31	4.0	1 55 3.255	+5.0353	- 111	+71 56 49.95	+17.594	+ 17
υ Ceti	545	4.0	1 55 23.191	+2.8244	+ 65	-21 33 10.25	+17.546	- 18
γ Androm.	32	2.4	1 57 52.781	+3.6641	+ 21	+41 51 34.45	+17.406	- 51
α Arietis	33	2.0	2 1 38.789	+3.3727	+ 127	+22 59 57.34	+17.160	-134
β Triang.	34	3.0	2 3 42.584	+3.5571	+ 118	+34 31 26.03	+17.168	- 33
55 Cassiop.	350	6.1	2 6 47.040	+4.6531	- 20	+66 3 54.66	+17.057	- 4
[6 Persei]	351	6.0	2 7 4.946	+3.9646	+ 348	+50 36 38.29	+16.875	-174
Lac. μ Forn.	546	5.2	2 8 35.465	+2.6411	- 11	-31 11 1.79	+16.968	- 10
[γ Triang.]	352	4.3	2 11 29.121	+3.5535	+ 24	+33 23 39.07	+16.807	- 34
67 Ceti	353	6.0	2 12 5.643	+2.9886	+ 36	- 6 52 24.99	+16.704	-109
[δ Arietis]	354	5.6	2 12 40.325	+3.3287	- 23	+19 26 52.64	+16.795	+ 10
ο Ceti ²⁾	35	var.	2 14 23.640	+3.0263	- 22	- 3 25 21.68	+16.473	-230
[ι Cass.] ³⁾	36	4.1	2 20 58.968	+4.8823	- 46	+66 57 42.92	+16.376	0
ξ ² Ceti	37	4.0	2 22 56.803	+3.1839	+ 11	+ 8 1 15.43	+16.275	- 1
36 H. Cass.	38	5.6	2 28 42.340	+5.6132	- 45	+72 23 23.37	+15.988	+ 11
ν Arietis	355	5.6	2 33 14.950	+3.3979	- 19	+21 32 16.29	+15.723	- 11
δ Ceti	39	4.0	2 34 27.511	+3.0718	+ 4	- 0 5 39.47	+15.661	- 7
[Br. 366]	356	6.4	2 36 23.146	+5.0991	+ 2	+67 24 30.32	+15.522	- 39
θ Persei	40	4.0	2 37 30.121	+4.0749	+ 330	+48 48 50.62	+15.409	- 93
[35 Arietis]	357	5.0	2 37 41.871	+3.5088	- 19	+27 17 24.85	+15.480	- 9
[γ Ceti] ⁴⁾	41	3.3	2 38 13.253	+3.1034	- 114	+ 2 49 22.12	+15.304	-156
π Ceti	547	4.0	2 39 27.433	+2.8520	- 28	-14 16 25.11	+15.382	- 9

1) 4^m.3 u. 4^m.4. Dupl. 8^m.6; AR. der Mitte, Decl. des südl. Sterns.2) Größe zwischen 1.7 u. 9. 9^m folgt 8^s im Parallel.3) 7^m 2"; 8^m 7".5.4) 7^m 3".

N a m e	Nr. des Fund.- Kat.	Gr.	AR. 1902.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0 ^a .0001	Decl. 1902.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0 ^a .001
μ Ceti	42	4.0	2 ^h 39 ^m 38 ^s .495	+3.2358	+ 164	+ 9° 42' 2.07	+15.361	- 20
[η Persei]	43	3.6	2 43 32.613	+4.3477	+ 23	+55 29 19.30	+15.126	- 34
41 Arietis	44	3.8	2 44 12.746	+3.5206	+ 32	+26 51 24.13	+15.003	-119
τ ² Eridani	548	4.6	2 46 35.553	+2.7182	- 62	-21 24 29.28	+14.960	- 23
τ Persei	45	4.0	2 47 18.264	+4.2270	- 18	+52 21 41.60	+14.933	- 9
η Eridani	46	3.0	2 51 38.332	+2.9276	+ 37	- 9 17 16.99	+14.481	-206
47 H. Ceph.	358	6.0	2 53 2.337	+7.7886	- 113	+79 1 54.83	+14.618	+ 15
α Ceti	47	2.3	2 57 9.264	+3.1304	- 29	+ 3 42 19.48	+14.280	- 73
γ Persei	48	3.0	2 57 41.622	+4.3185	- 15	+53 7 22.49	+14.319	- 2
ρ Persei ¹⁾	49	var.	2 58 53.592	+3.8303	+ 103	+38 27 38.96	+14.160	- 88
β Persei ²⁾	50	var.	3 1 47.304	+3.8869	- 17	+40 34 41.88	+14.078	+ 10
[ι Persei]	51	4.0	3 1 59.395	+4.3057	+1274	+49 14 21.12	+13.997	- 66
δ Arietis	359	4.1	3 6 1.375	+3.4229	+ 95	+19 21 22.44	+13.804	+ 2
48 H. Ceph.	360	6.1	3 7 51.664	+7.4382	+ 29	+77 22 30.43	+13.639	- 45
12 Eridani ³⁾	549	3.3	3 7 54.478	+2.5471	+ 245	-29 22 23.92	+14.338	+656
α Persei	52	2.0	3 17 19.328	+4.2619	+ 15	+49 30 45.10	+13.034	- 33
ο Tauri	53	3.6	3 19 32.288	+3.2237	- 52	+ 8 41 2.96	+12.852	- 68
2 H. Camel.	361	4.6	3 21 7.660	+4.8240	- 14	+59 35 56.98	+12.825	+ 12
[ξ Tauri]	54	3.6	3 21 51.400	+3.2465	+ 32	+ 9 23 27.43	+12.716	- 49
[σ Persei ⁴⁾	362	4.8	3 23 39.705	+4.2115	0	+47 39 25.67	+12.661	+ 19
ζ Tauri	55	4.0	3 25 27.631	+3.3060	- 2	+12 36 3.71	+12.530	+ 11
ε Eridani	56	3.0	3 28 18.723	+2.8234	- 675	- 9 47 24.27	+12.333	+ 11
[Gr. 716]	363	6.0	3 33 38.723	+5.1664	- 38	+62 53 58.71	+12.010	+ 58
δ Persei	57	3.1	3 35 56.604	+4.2529	+ 12	+47 28 27.74	+11.754	- 37
[ο Persei ⁵⁾	58	4.0	3 38 10.203	+3.7510	- 16	+31 58 40.62	+11.622	- 10
ν Persei	59	4.0	3 38 32.017	+4.0621	- 15	+42 16 8.57	+11.595	- 12
[θ Eridani]	550	3.0	3 38 33.148	+2.8705	- 81	-10 5 42.74	+12.347	+743
[17 Tauri]	60	4.1	3 39 3.217	+3.5543	- 1	+23 48 19.55	+11.533	- 36
5 H. Camel.	364	4.3	3 40 0.072	+6.2569	- 17	+71 1 49.95	+11.450	- 51
η Tauri	61	3.0	3 41 39.389	+3.5578	- 4	+23 48 8.40	+11.343	- 40
τ ⁶ Eridani	551	4.0	3 42 37.852	+2.5794	- 127	-23 32 22.16	+10.781	-530
[27 Tauri]	62	4.0	3 43 19.961	+3.5592	- 3	+23 45 13.73	+11.214	- 47
ζ Persei	63	3.0	3 47 58.172	+3.7619	- 3	+31 35 34.21	+10.921	- 2
9 H. Camel.	365	6.0	3 48 46.545	+5.0837	- 13	+60 49 20.02	+10.863	- 1
ε Persei	64	3.3	3 51 16.460	+4.0134	+ 4	+39 43 37.15	+10.659	- 20

1) Größe zwischen 3.4 u. 4.2.

2) Größe zwischen 2.2 u. 3.7.

3) 7.8^m 3".4) 6^m folgt 2^s, 6'.5 nördlich.5) 9^m 1".

N a m e	Nr. des Fund.-Kat.	Gr.	AR. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .0001	Decl. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .001
ξ Persei	65	4.0	3 ^h 52 ^m 36. ^s 221	+ 3.8824	— 6	+35° 30' 33.60	+10.568	— 13
γ Eridani	552	3.0	3 53 27.363	+ 2.7964	+ 29	—13 47 14.07	+10.412	—106
λ Tauri ¹⁾	66	var.	3 55 14.959	+ 3.3189	— 14	+12 12 48.81	+10.375	— 9
ν Tauri	67	4.0	3 57 56.538	+ 3.1882	+ 1	+ 5 43 2.86	+10.173	— 9
ϵ Persei	69	4.0	4 1 32.596	+ 4.3398	+ 9	+47 27 3.67	+ 9.876	— 33
Gr. 750	68	6.4	4 5 40.108	+17.3427	+ 24	+85 17 47.44	+ 9.608	+ 15
o ¹ Eridani	366	4.4	4 7 4.866	+ 2.9256	— 6	— 7 5 34.63	+ 9.570	+ 85
[54 Persei]	367	5.8	4 14 2.684	+ 3.8869	— 31	+34 19 48.95	+ 8.944	+ 1
[γ Tauri]	70	4.0	4 14 12.896	+ 3.4096	+ 73	+15 23 27.64	+ 8.900	— 30
δ Tauri	71	4.0	4 17 16.894	+ 3.4550	+ 66	+17 18 46.27	+ 8.665	— 25
ε Tauri	72	3.6	4 22 53.564	+ 3.4985	+ 70	+18 57 47.69	+ 8.217	— 28
[1 Camel. seq.]	368	6.3	4 24 15.999	+ 4.7393	+ 33	+53 41 53.13	+ 8.125	— 9
α Tauri	73	1	4 30 17.732	+ 3.4379	+ 35	+16 18 44.78	+ 7.465	—184
ν Eridani	74	3.3	4 31 25.224	+ 2.9936	— 23	— 3 33 9.32	+ 7.568	+ 9
53 Eridani	553	4.0	4 33 41.415	+ 2.7437	— 77	—14 29 44.41	+ 7.213	—162
Gr. 848	369	6.1	4 35 38.252	+ 7.9981	+ 95	+75 45 48.00	+ 7.083	—132
τ Tauri	370	4.3	4 36 21.680	+ 3.5959	— 10	+22 46 9.09	+ 7.147	— 9
4 Camelop.	371	5.8	4 39 50.131	+ 4.9793	+ 30	+56 34 59.87	+ 6.716	—155
[μ Eridani]	75	3.6	4 40 36.060	+ 2.9971	— 2	— 3 26 2.77	+ 6.806	— 2
9 Camelop.	76	4.3	4 44 18.126	+ 5.9340	— 27	+66 10 35.43	+ 6.502	— 1
[π ⁴ Orionis]	77	4.3	4 45 59.127	+ 3.1925	— 10	+ 5 26 15.44	+ 6.366	+ 2
π ⁵ Orionis	78	4.0	4 49 8.766	+ 3.1231	— 4	+ 2 16 48.96	+ 6.094	— 7
ι Aurigae	79	3.0	4 50 36.640	+ 3.9024	+ 6	+33 0 40.44	+ 5.976	— 3
10 Camelop.	80	4.0	4 54 41.917	+ 5.3219	0	+60 17 57.33	+ 5.623	— 14
ε Aurigae ²⁾	81	var.	4 54 56.045	+ 4.2966	— 16	+43 40 42.56	+ 5.603	— 14
[ζ Aurigae]	82	4.0	4 55 37.574	+ 4.1867	+ 1	+40 55 59.41	+ 5.552	— 6
ι Tauri	372	5.0	4 57 14.205	+ 3.5825	+ 40	+21 27 0.56	+ 5.383	— 40
η Aurigae	83	3.6	4 59 38.462	+ 4.2010	+ 22	+41 6 8.10	+ 5.159	— 61
ε Leporis	554	3.5	5 1 18.706	+ 2.5375	+ 4	—22 30 9.94	+ 5.011	— 68
β Eridani	84	3.0	5 3 1.881	+ 2.9480	— 66	— 5 12 46.28	+ 4.874	— 59
[λ Eridani]	85	4.0	5 4 27.364	+ 2.8698	— 2	— 8 52 46.20	+ 4.813	+ 1
19 H. Camel.	373	5.0	5 6 23.581	+ 9.8006	—370	+79 7 8.60	+ 4.793	+144
μ Aurigae	374	5.6	5 6 43.182	+ 4.0981	— 47	+38 22 7.00	+ 4.548	— 71
α Aurigae	86	1	5 9 26.895	+ 4.4268	+ 78	+45 53 54.68	+ 3.963	—424
β Orionis	87	1	5 9 49.625	+ 2.8809	— 12	— 8 18 53.14	+ 4.360	+ 5

1) Größe zwischen 3.4 u. 4.2.

2) Größe zwischen 3.0 u. 4.5.

N a m e	Nr. des Fund.-Kat.	Gr.	AR. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ⁿ .0001	Decl. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ⁿ .001
[τ Orionis]	88	4.0	5 ^h 12 ^m 50.781	+2.9102	- 31	- 6 ^m 57 ^s 0.69	+4.098	+ 2
[η Orion. m.] ¹⁾	89	3.3	5 19 32.901	+3.0141	- 15	- 2 29 13.63	+3.531	+ 10
γ Orionis	91	2.0	5 19 52.406	+3.2153	- 19	+ 6 15 39.67	+3.478	- 15
β Tauri	90	2.0	5 20 5.758	+3.7902	+ 13	+28 31 29.39	+3.294	-180
17 Camelop.	375	6.0	5 20 54.716	+5.6553	- 15	+62 59 8.18	+3.397	- 6
[β Leporis]	555	3.2	5 24 2.741	+2.5687	- 15	-20 50 14.92	+3.054	- 79
Gr. 966	92	6.5	5 26 37.108	+8.0021	+ 3	+74 58 44.48	+2.886	- 24
δ Orionis ²⁾	93	var.	5 26 59.928	+3.0628	- 14	- 0 22 17.84	+2.872	- 5
α Leporis	556	3.0	5 28 24.424	+2.6442	- 11	-17 53 32.49	+2.765	+ 10
[φ ¹ Orionis]	376	5.0	5 29 26.363	+3.2909	- 18	+ 9 25 23.90	+2.664	- 2
[θ ¹ Orionis] ³⁾	94	5.1	5 30 27.527	+2.9435	- 27	- 5 27 14.29	+2.613	+ 35
[θ ² Orionis]	95	5.0	5 30 34.124	+2.9455	- 1	- 5 28 49.24	+2.582	+ 14
ι Orionis	96	3.1	5 30 38.320	+2.9333	- 7	- 5 58 26.65	+2.569	+ 7
ε Orionis	97	2.0	5 31 14.357	+3.0417	- 18	- 1 15 51.50	+2.516	+ 6
ζ Tauri	98	3.3	5 31 47.230	+3.5836	- 6	+21 4 58.48	+2.437	- 24
[σ Orionis]	99	3.7	5 33 49.508	+3.0096	- 16	- 2 39 23.57	+2.287	+ 2
ο Aurigae	377	5.8	5 38 18.413	+4.6433	- 34	+49 47 0.28	+1.867	- 27
[γ Leporis]	557	3.9	5 40 22.584	+2.4987	-230	-22 28 48.99	+1.348	-366
[130 Tauri]	378	6.0	5 41 43.275	+3.4953	- 26	+17 41 33.99	+1.609	+ 12
ζ Leporis	558	3.6	5 42 30.873	+2.7173	- 18	-14 51 29.94	+1.537	+ 9
κ Orionis	100	2.6	5 43 6.438	+2.8430	- 17	- 9 42 15.40	+1.480	+ 4
[ν Aurigae]	101	4.0	5 44 41.715	+4.1530	- 45	+39 7 12.37	+1.368	+ 31
[δ Leporis]	559	4.0	5 47 6.410	+2.5794	+158	-20 53 15.41	+0.474	-654
α Orionis ⁴⁾	102	var.	5 49 51.925	+3.2467	+ 8	+ 7 23 20.60	+0.910	+ 24
δ Aurigae	379	4.1	5 51 27.413	+4.9380	+ 76	+54 16 38.92	+0.632	-116
[η Leporis]	560	3.6	5 51 56.420	+2.7306	- 44	-14 11 7.59	+0.852	+146
β Aurigae	103	2.0	5 52 20.394	+4.3999	- 60	+44 56 15.53	+0.658	- 11
θ Aurigae	104	3.0	5 53 2.329	+4.0909	+ 37	+37 12 21.55	+0.530	- 78
[66 Orionis]	380	6.0	5 59 47.679	+3.1675	- 26	+ 4 9 51.51	+0.005	- 13
ν Orionis	382	4.6	6 1 58.581	+3.4252	- 3	+14 46 49.53	-0.186	- 13
[36 Camelop.]	381	5.8	6 2 59.231	+6.0295	- 91	+65 44 16.99	-0.308	- 46
22 H. Camel.	383	4.6	6 8 2.845	+6.6177	- 11	+69 21 16.98	-0.815	-111
η Geminor. ⁵⁾	105	var.	6 8 57.737	+3.6221	- 50	+22 32 7.82	-0.787	- 3
[2 Lyncis]	384	4.6	6 10 58.678	+5.2992	+ 1	+59 2 48.47	-0.918	+ 42
μ Geminor.	106	3.0	6 17 1.912	+3.6304	+ 37	+22 33 51.12	-1.590	-101

1) 4^m und 5^m, 1ⁿ.

2) Größe zwischen 2.2 u. 2.7.

3) Der dritte, südlichste Stern im Trapez.

4) Größe zwischen 1 u. 1.4.

5) Größe zwischen 3.2 u. 4.2.

N a m e	Nr. des Fund.-Kat.	Gr.	AR. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^o .0001	Decl. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^o .001
ψ^1 Aurigae	385	5.1	6 ^h 17 ^m 21 ^s .110	+ 4.6246	+ 1	+49° 20' 17".28	-1.527	- 10
β Canis maj.	561	2.6	6 18 23.011	+ 2.6407	- 15	-17 54 25.77	-1.604	+ 3
8 Monocer.	386	4.7	6 18 34.537	+ 3.1798	- 12	+ 4 38 33.85	-1.614	+ 10
10 Monocer.	562	5.0	6 23 7.198	+ 2.9623	- 11	- 4 42 5.45	-2.006	+ 14
8 Lyncis	388	6.0	6 28 44.073	+ 5.4920	-308	+61 34 3.77	-2.781	- 271
23 H. Camel.	387	5.3	6 29 30.989	+10.3201	-265	+79 40 14.67	-3.233	- 657
ξ^2 Canis maj.	563	5.1	6 30 56.965	+ 2.5154	+ 18	-22 53 13.09	-2.669	+ 31
51 Aurigae	389	6.4	6 31 52.101	+ 4.1595	- 37	+39 28 38.88	-2.873	- 94
γ Geminor.	107	2.3	6 32 3.044	+ 3.4668	+ 23	+16 28 59.27	-2.830	- 35
S Monocer. ¹⁾	108	var.	6 35 34.878	+ 3.3050	- 3	+ 9 59 11.57	-3.101	0
ϵ Geminor.	109	3.3	6 37 54.157	+ 3.6922	- 18	+25 13 42.30	-3.307	- 5
[ψ^5 Aurigae]	390	5.8	6 39 40.497	+ 4.3266	- 33	+43 40 30.50	-3.307	+ 147
ξ Geminor.	110	3.6	6 39 47.345	+ 3.3681	- 87	+13 0 4.91	-3.659	- 195
α Canis maj. ²⁾	564	1	6 40 49.896	+ 2.6441	-372	-16 34 53.80	-4.755	-1199
18 Monocer.	392	5.0	6 42 45.056	+ 3.1285	- 20	+ 2 31 10.06	-3.731	- 12
[43 Camelop.]	391	5.1	6 43 8.452	+ 6.4944	+ 3	+69 0 10.55	-3.715	+ 38
[24 H. Camel.]	393	4.6	6 45 46.867	+ 8.8176	+229	+77 6 9.47	-3.993	- 15
θ Geminor.	112	3.3	6 46 19.870	+ 3.9585	- 2	+34 4 47.26	-4.059	- 32
15 Lyncis ³⁾	394	4.7	6 48 47.608	+ 5.2094	0	+58 33 5.64	-4.361	- 123
θ Canis maj.	565	4.3	6 49 38.184	+ 2.7868	-105	-11 54 56.69	-4.312	- 3
51 H. Cephei	111	5.1	6 54 44.104	+29.6161	-417	+87 12 10.65	-4.794	- 51
ϵ Canis maj.	566	1.6	6 54 46.413	+ 2.3565	- 11	-28 50 19.10	-4.730	+ 17
ζ Gemin. ⁴⁾	113	var.	6 58 17.828	+ 3.5609	- 11	+20 42 51.40	-5.046	+ 1
γ Canis maj.	567	4.3	6 59 19.427	+ 2.7129	- 18	-15 29 18.36	-5.136	- 3
δ Canis maj.	568	2.0	7 4 24.365	+ 2.4382	- 15	-26 14 15.48	-5.555	+ 7
63 Aurigae	395	5.0	7 4 54.958	+ 4.1330	+ 30	+39 28 50.88	-5.584	+ 20
[64 Aurigae]	396	6.0	7 11 13.523	+ 4.1819	+ 5	+41 3 27.56	-6.109	+ 23
λ Geminor.	114	3.8	7 12 27.691	+ 3.4504	- 39	+16 43 2.83	-6.261	- 26
δ Geminor.	115	3.3	7 14 16.239	+ 3.5864	- 25	+22 9 47.17	-6.383	+ 3
19 Lync. seq.	397	5.1	7 14 52.334	+ 4.9085	- 40	+55 27 58.82	-6.463	- 28
ι Geminor.	117	4.0	7 19 38.459	+ 3.7311	- 97	+27 59 35.25	-6.904	- 75
Gr. 1308	116	6.0	7 20 41.423	+ 6.2883	+ 26	+68 39 57.23	-6.989	- 74
β Canis min.	118	3.0	7 21 50.195	+ 3.2555	- 42	+ 8 29 13.38	-7.040	- 30
ρ Geminor.	398	4.8	7 22 48.484	+ 3.8623	+ 88	+31 58 47.05	-6.894	+ 195
α Gemin. ⁵⁾	119	2	7 28 20.692	+ 3.8348	-151	+32 6 13.48	-7.620	- 78

1) Größe zwischen 5.0 u. 5.5.

2) Ort des Schwerpunkts. Die Reduction auf den Hauptstern ist nach Auwers (»Untersuchungen über veränderliche Eigenbewegungen«):

$$1902.0 \quad \Delta\alpha = -0^s.128 \quad \Delta\delta = +0".81$$

$$1903.0 \quad \quad \quad -0.144 \quad \quad \quad +0.71$$

3) Dupl. 5^m und 6^m, 0".5. 4) Größe zwischen 3.7 u. 4.5.

5) 2^m.3 u. 3^m.3. Dupl. 5"; AR. der Mitte, Decl. des folgenden, hellern Sterns.

N a m e	Nr. des Fund.-Kat.	Gr.	AR. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .0001	Decl. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .001
25 Monocer.	569	5.3	7 ^h 32 ^m 24.209	+2.9810	- 80	- 3° 53' 31.18	- 7.834	+ 31
α Can. min. ¹⁾	120	1	7 34 10.344	+3.1430	-474	+ 5 28 34.88	- 9.039	-1027
24 Lyncis	399	5.1	7 34 43.143	+5.0997	- 57	+58 56 23.40	- 8.113	- 59
z Geminor.	121	3.6	7 38 31.921	+3.6265	- 34	+24 37 59.32	- 8.414	- 55
β Geminor.	122	1.3	7 39 19.210	+3.6768	-481	+28 15 47.20	- 8.474	- 51
π Geminor.	400	6.0	7 41 11.397	+3.8764	- 11	+33 39 23.57	- 8.575	- 6
[26 Lyncis]	402	6.1	7 47 34.708	+4.3829	- 55	+47 49 7.32	- 9.091	- 20
Gr. 1374	401	5.4	7 48 28.235	+7.2611	-109	+74 10 48.38	- 9.174	- 34
[53 Camelop.]	403	6.0	7 53 20.593	+5.1595	- 8	+60 35 33.08	- 9.546	- 28
χ Geminor.	404	5.0	7 57 30.037	+3.6915	- 25	+28 4 9.64	- 9.876	- 39
27 Lyncis	405	4.6	8 1 5.198	+4.5296	- 97	+51 47 22.11	-10.107	+ 2
ι Navis	570	3.0	8 3 22.191	+2.5537	- 75	-24 1 18.18	-10.220	+ 61
Br. 1147	406	5.1	8 7 14.455	+7.6515	+ 33	+76 3 22.93	-10.570	0
20 Navis	571	6.0	8 8 49.700	+2.7572	- 20	-15 29 35.16	-10.696	- 9
β Cancri	123	3.6	8 11 12.056	+3.2561	- 44	+ 9 29 15.91	-10.904	- 41
31 Lyncis	407	5.0	8 16 7.833	+4.1246	+ 5	+43 30 9.51	-11.330	- 107
Br. 1197	124	3.6	8 20 45.798	+2.9984	- 58	- 3 35 11.07	-11.550	+ 7
ο Ursae maj.	125	3.3	8 22 7.602	+5.0197	-193	+61 2 45.68	-11.766	- 111
Gr. 1450	408	6.4	8 26 32.718	+3.9064	-151	+38 21 8.19	-12.175	- 208
η Cancri	409	5.8	8 27 2.577	+3.4751	- 39	+20 46 27.33	-12.048	- 47
[Gr. 1446]	410	6.0	8 28 49.333	+6.7762	- 32	+73 58 21.54	-12.228	- 103
[Gr. 1460]	411	5.6	8 32 1.936	+4.4625	-108	+53 3 18.91	-12.379	- 31
δ Cancri	126	4.0	8 39 6.993	+3.4142	- 26	+18 30 52.99	-13.057	- 226
ι Cancri	127	4.1	8 40 46.143	+3.6399	- 16	+29 7 7.24	-12.974	- 33
[ε Hydrae]	128	3.3	8 41 35.214	+3.1802	-135	+ 6 46 43.24	-13.019	- 23
[σ ² Cancri m.] ²⁾	412	5.8	8 48 16.037	+3.6699	+ 20	+30 57 2.40	-13.456	- 21
ζ Hydrae	129	3.3	8 50 12.850	+3.1745	- 73	+ 6 19 7.30	-13.543	+ 19
ι Ursae maj.	130	3.0	8 52 30.110	+4.1286	-441	+48 25 35.69	-13.956	- 246
α Cancri	131	4.0	8 53 7.673	+3.2848	+ 10	+12 14 14.18	-13.771	- 22
[ρ Urs. maj.]	413	5.0	8 53 43.034	+5.4734	- 36	+68 0 42.47	-13.769	+ 16
10 Ursae maj.	132	4.0	8 54 16.850	+3.9099	-401	+42 10 15.08	-14.081	- 258
[Gr. 1501]	414	6.0	8 56 50.011	+4.4288	+ 41	+54 40 13.78	-13.958	+ 24
z Ursae maj.	133	3.3	8 56 56.301	+4.1159	- 37	+47 32 39.00	-14.056	- 68
σ ² Ursae maj.	415	5.0	9 1 46.746	+5.3409	+ 1	+67 31 57.73	-14.353	- 64
[36 Lyncis]	416	5.0	9 7 23.983	+3.9444	+ 3	+43 37 19.03	-14.664	- 35

¹⁾ Ort des Mittelpunkts der Bahn. Die Reduction auf den Ort des sichtbaren Sterns beträgt nach Auwers (»Fundamental-Katalog«):

$$\begin{aligned}
 1902.0 \quad \Delta\alpha &= +0^s.032 & \Delta\delta &= -0^s.85 \\
 1903.0 & \quad \quad \quad & & -0^s.92
 \end{aligned}$$

²⁾ Dupl. 6^m.3 und 6^m.8, 1^s.5.

N a m e	Nr. des Fund.-Kat.	Gr.	AR. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^o .0001	Decl. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^o .0001
♁ Hydrae	134	4.0	9 9 15.964	+3.1237	+ 78	+ 2° 43' 40.16	-15.051	-309
[38 Lyncis]	135	4.1	9 12 44.903	+3.7467	- 30	+37 13 3.00	-15.060	-114
83 Cancrī	417	5.8	9 13 30.791	+3.3543	- 90	+18 7 14.99	-15.129	-139
40 Lyncis	136	3.3	9 15 5.172	+3.6651	-202	+34 48 25.64	-15.055	+ 28
α Hydrae	138	2.0	9 22 46.298	+2.9483	- 19	- 8 14 0.98	-15.464	+ 52
ι H. Dracon.	137	4.3	9 23 8.654	+8.8915	- 173	+81 45 35.89	-15.555	- 20
h Ursae maj.	139	3.3	9 23 48.454	+4.7750	+ 139	+63 29 25.98	-15.547	+ 26
d Ursae maj.	418	4.6	9 25 49.643	+5.3823	- 118	+70 15 40.98	-15.608	+ 76
♁ Ursae maj.	140	3.0	9 26 18.401	+4.0367	-1040	+52 7 26.10	-16.276	-561
ι0 Leon. min.	419	4.8	9 28 13.361	+3.6892	+ 8	+36 49 58.40	-15.824	- 10
[Gr. 1564]	420	5.8	9 33 51.935	+5.2045	- 177	+69 41 1.35	-16.190	- 77
[o Leonis]	141	3.6	9 35 55.273	+3.2057	- 104	+10 20 18.13	-16.238	- 18
ε Leonis	142	3.0	9 40 17.404	+3.4129	- 43	+24 13 32.28	-16.449	- 8
υ Ursae maj.	143	3.6	9 44 1.591	+4.3023	-390	+59 29 59.92	-16.776	-148
6 Sextantis	572	6.1	9 46 17.774	+3.0245	+ 5	- 3 47 2.10	-16.749	- 14
[μ Leonis]	144	4.0	9 47 11.464	+3.4187	- 185	+26 28 7.19	-16.825	- 45
Gr. 1586	421	6.0	9 49 37.859	+5.4569	-229	+73 20 44.83	-16.935	- 41
[19 Leon. min.]	422	5.1	9 51 41.097	+3.6896	- 117	+41 31 21.11	-16.997	- 6
π Leonis	423	5.0	9 55 2.096	+3.1725	- 40	+ 8 30 52.38	-17.156	- 11
η Leonis	145	3.3	10 1 59.557	+3.2782	+ 13	+17 14 26.19	-17.451	+ 2
α Leonis	146	1.3	10 3 9.196	+3.1984	- 182	+12 26 46.81	-17.485	+ 18
λ Hydrae	573	4.0	10 5 48.610	+2.9237	- 148	-11 52 10.36	-17.680	- 65
λ Ursae maj.	147	3.3	10 11 11.347	+3.6342	- 164	+43 24 13.17	-17.892	- 57
ζ Leonis	148	3.0	10 11 14.450	+3.3435	0	+23 54 21.49	-17.820	+ 17
μ Ursae maj.	149	3.0	10 16 29.613	+3.5895	- 83	+41 59 32.80	-18.007	+ 34
30 H. Urs. maj.	424	5.0	10 17 4.155	+4.3731	- 70	+66 3 44.01	-18.078	- 14
[30 H. Camel.]	425	5.0	10 19 10.113	+7.6962	- 523	+83 3 27.11	-18.110	+ 33
μ Hydrae	574	4.0	10 21 21.013	+2.8995	- 98	-16 20 9.51	-18.284	- 61
31 Leon. min.	426	4.3	10 22 13.125	+3.4815	- 112	+37 12 34.79	-18.332	- 77
Lac. α Anthiae	575	4.2	10 22 39.944	+2.7387	- 87	-30 34 9.04	-18.272	- 1
36 Ursae maj.	427	5.0	10 24 21.523	+3.8671	- 234	+56 28 59.55	-18.364	- 32
9 H. Dracon.	150	4.6	10 26 46.463	+5.2138	- 150	+76 13 4.63	-18.421	- 5
[ρ Leonis]	151	4.0	10 27 39.109	+3.1621	- 12	+ 9 48 39.78	-18.436	+ 11
[37 Urs. maj.]	428	5.1	10 28 51.132	+3.8936	+ 54	+57 35 15.15	-18.448	+ 39
[35 H. Urs. maj.]	429	5.1	10 36 3.665	+4.3620	+ 28	+69 35 19.39	-18.755	- 32

N a m e	Nr. des Fund.-Kat.	Gr.	AR. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^o .0001	Decl. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^o .001
33 Sextantis	576	6.4	10 ^h 36 ^m 24.934	+3.0505	-120	- 1 13 34.42	-18.838	-104
[41 Leon.min.]	430	5.3	10 38 5.299	+3.2675	-105	+23 42 5.70	-18.760	+ 26
42 Leon.min.	431	5.0	10 40 25.008	+3.3446	- 36	+31 11 55.46	-18.873	- 17
l Leonis	432	5.1	10 44 6.406	+3.1562	- 15	+11 3 49.66	-18.983	- 20
[v Hydrae]	577	3.3	10 44 47.305	+2.9567	+ 49	-15 40 50.71	-18.767	+215
[46 Leon.min.]	152	4.0	10 47 49.953	+3.3651	+ 53	+34 44 36.86	-19.313	-246
[Br. 1508]	433	6.0	10 52 7.717	+4.9299	-259	+78 17 43.18	-19.205	- 26
β Ursae maj.	153	2.3	10 55 55.888	+3.6473	+ 86	+56 54 28.39	-19.230	+ 41
α Ursae maj.	154	2.0	10 57 41.098	+3.7379	-179	+62 16 48.50	-19.386	- 71
χ Leonis	434	4.8	10 59 57.692	+3.0951	-255	+ 7 51 57.56	-19.391	- 22
ψ Ursae maj.	155	3.1	11 4 9.404	+3.3888	- 70	+45 1 48.57	-19.496	- 36
β Crateris	578	4.0	11 6 50.174	+2.9450	- 18	-22 17 27.19	-19.604	- 88
δ Leonis	156	2.3	11 8 53.873	+3.1967	+102	+21 3 38.85	-19.671	-115
θ Leonis	157	3.3	11 9 5.869	+3.1511	- 59	+15 57 55.41	-19.623	- 63
[Gr. 1757]	435	6.0	11 11 10.692	+3.4003	- 94	+50 0 40.36	-19.612	- 13
[ξ Urs. maj. m.]	158	3.8	11 12 57.327	+3.2068	-367	+32 4 50.29	-20.205	-573
v Ursae maj.	159	3.3	11 13 11.404	+3.2535	+ 5	+33 37 45.18	-19.584	+ 52
θ Crateris	579	3.3	11 14 26.366	+2.9952	-106	-14 14 53.95	-19.449	+209
σ Leonis	160	4.1	11 16 5.013	+3.0950	- 71	+ 6 33 59.24	-19.686	0
Gr. 1771	436	6.1	11 17 1.767	+3.5864	-173	+64 52 0.41	-19.674	+ 27
[ι Leonis]	161	4.0	11 18 48.892	+3.1279	+ 85	+11 4 8.97	-19.793	- 63
[γ Crateris]	580	4.0	11 19 59.052	+2.9920	- 92	-17 8 44.35	-19.716	+ 32
[58 Urs. maj.]	437	6.0	11 25 13.062	+3.2597	- 62	+43 42 40.18	-19.752	+ 70
λ Draconis	162	3.3	11 25 35.619	+3.6108	- 74	+69 52 19.07	-19.853	- 27
ξ Hydrae	581	4.0	11 28 10.830	+2.9436	-166	-31 18 55.50	-19.885	- 25
ο Leonis	438	4.8	11 31 55.818	+3.0701	- 18	- 0 16 57.59	-19.855	+ 47
3 Draconis	439	5.3	11 37 0.823	+3.3862	- 63	+67 17 14.38	-19.919	+ 33
χ Ursae maj.	163	3.8	11 40 52.691	+3.1833	-145	+48 19 21.97	-19.959	+ 28
β Leonis	164	2.0	11 44 3.665	+3.0622	-356	+15 7 11.84	-20.102	- 98
β Virginis	165	3.3	11 45 35.380	+3.1242	+481	+ 2 19 1.08	-20.275	-262
γ Ursae maj.	166	2.3	11 48 40.714	+3.1743	+ 98	+54 14 22.52	-20.019	+ 8
ο Virginis	167	4.0	12 0 13.035	+3.0565	-159	+ 9 16 38.07	-20.004	+ 49
[Gr. 1852]	440	5.8	12 0 16.559	+3.1097	+442	+77 27 13.31	-20.166	-114
ε Corvi	582	3.0	12 5 4.982	+3.0789	- 59	-22 4 29.51	-20.026	+ 21
4 H. Dracon.	168	4.6	12 7 36.817	+2.8622	+ 13	+78 9 39.19	-20.016	+ 25

N a m e	Nr. des Fund.- Kat.	Gr.	AR. 1902.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0 ^h .0001	Decl. 1902.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0 ^h .001
δ Ursae maj.	169	3.4	12 ^h 10 ^m 34.762	+2.9892	+134	+57° 34' 37.28	-20.028	+ 2
[γ Corvi]	583	2.0	12 10 45.886	+3.0797	-123	-16 59 51.82	-19.996	+ 34
[2 Can. ven.]	441	5.9	12 11 13.049	+3.0179	+ 25	+41 12 20.76	-20.059	- 31
η Virginis	170	3.3	12 14 53.471	+3.0673	- 56	- 0 7 20.49	-20.032	- 22
[6 Can. ven.]	442	5.3	12 21 1.475	+2.9657	- 59	+39 33 43.89	-19.993	- 26
δ Corvi	584	2.3	12 24 47.588	+3.0999	-142	-15 58 12.42	-20.081	-146
20 Comae	443	6.0	12 24 47.987	+3.0193	+ 33	+21 26 19.73	-19.951	- 17
[74 Urs. maj.]	444	5.6	12 25 22.967	+2.8210	- 63	+58 56 41.80	-19.837	+100
8 Can. ven.	445	4.3	12 29 5.396	+2.8558	-649	+41 53 23.41	-19.605	+285
β Corvi	585	2.3	12 29 14.154	+3.1411	- 33	-22 51 18.05	-19.941	- 52
α Draconis	171	3.3	12 29 18.034	+2.5800	-159	+70 19 41.78	-19.890	- 2
24 Comae seq.	446	5.2	12 30 12.893	+3.0119	- 6	+18 54 59.59	-19.846	+ 31
[γ Virgin. m.] ¹⁾	172	3	12 36 41.627	+3.0377	-385	- 0 54 43.41	-19.781	+ 15
76 Ursae maj.	447	6.0	12 37 17.162	+2.6369	- 62	+63 15 3.65	-19.805	- 18
ε Ursae maj.	173	2.0	12 49 43.127	+2.6503	+121	+56 29 28.90	-19.612	- 30
δ Virginis	174	3.0	12 50 39.936	+3.0190	-336	+ 3 55 47.89	-19.610	- 47
12 Can. ven. sq.	175	2.9	12 51 26.664	+2.8111	-220	+38 50 51.44	-19.483	+ 66
8 Draconis	448	5.0	12 51 34.716	+2.4065	+ 30	+65 58 11.65	-19.596	- 51
ε Virginis	176	2.6	12 57 17.908	+2.9863	-192	+11 29 8.82	-19.400	+ 29
θ Virginis	449	4.3	13 4 52.441	+3.1012	- 43	- 5 0 57.27	-19.291	- 37
[17 Can. ven.] ²⁾	450	5.6	13 5 33.223	+2.7587	- 83	+39 1 10.58	-19.191	+ 46
43 Comae	177	4.1	13 7 18.073	+2.8032	-605	+28 22 29.51	-18.296	+897
[20 Can. ven.]	451	4.6	13 13 8.930	+2.6940	-129	+41 5 18.21	-19.017	+ 21
γ Hydrae	586	3.2	13 13 35.410	+3.2513	+ 24	-22 39 17.01	-19.065	- 38
ζ Urs. maj. pr.	178	2.1	13 19 58.830	+2.4226	+134	+55 26 13.37	-18.865	- 22
α Virginis	587	1	13 20 1.689	+3.1543	- 44	-10 38 59.77	-18.860	- 18
Gr. 2001	452	5.7	13 23 37.965	+1.5196	- 24	+72 54 1.07	-18.754	- 23
69 H. Urs. maj.	453	5.3	13 24 51.427	+2.2101	- 93	+60 27 5.78	-18.685	+ 8
ζ Virginis	179	3.3	13 29 41.887	+3.0532	-205	- 0 5 41.59	-18.479	+ 56
17 H. Can. ven.	454	5.5	13 30 25.215	+2.6800	+ 43	+37 41 3.48	-18.519	- 7
[Gr. 2029]	455	6.0	13 34 49.692	+1.4349	- 87	+71 44 27.52	-18.349	+ 11
τ Bootis	180	4.6	13 42 36.315	+2.8509	-346	+17 56 42.18	-18.035	+ 40
η Ursae maj.	181	2.0	13 43 40.846	+2.3697	-115	+49 48 8.10	-18.049	- 14
89 Virginis	588	5.0	13 44 32.665	+3.2513	- 87	-17 38 46.84	-18.035	- 33
[i Draconis]	456	5.0	13 48 34.181	+1.7507	- 17	+65 12 25.89	-17.857	- 14

1) 3^m.3 u. 3^m.3.2) 15 Canum (5.6^m) geht 22^s voran, 2'2 nördlich.

N a m e	Nr. des Fund.-Kat.	Gr.	AR. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .0001	Decl. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .0001
η Bootis	182	3.0	13 ^h 50 ^m 1.111	+2.8565	- 49	+18° 53' 20.20	-18.130	- 344
τ Virginis	183	4.0	13 56 39.453	+3.0493	- 5	+ 2 1 6.14	-17.543	- 33
II Bootis	457	6.0	13 56 43.890	+2.7213	- 69	+27 51 35.34	-17.489	+ 18
α Draconis	184	3.3	14 1 44.119	+1.6216	- 92	+64 50 38.93	-17.273	+ 16
d Bootis	458	5.0	14 5 55.788	+2.7369	- 20	+25 33 20.09	-17.181	- 81
z Virginis	185	4.3	14 7 39.997	+3.1947	- 4	- 9 49 3.96	-16.880	+ 141
4 Ursae min.	459	5.0	14 9 13.258	-0.3045	-137	+78 0 29.12	-16.912	+ 36
ι Virginis	186	4.0	14 10 52.393	+3.1396	- 31	- 5 31 59.15	-17.288	- 417
α Bootis	187	1	14 11 11.429	+2.7333	-799	+19 41 33.32	-18.831	-1977
λ Bootis	188	4.0	14 12 39.481	+2.2811	-199	+46 32 17.10	-16.634	+ 151
[ι Virginis]	189	4.3	14 12 41.753	+2.1260	-165	+51 49 8.64	-16.698	+ 85
θ Bootis	190	3.8	14 21 51.614	+2.0414	-273	+52 18 12.94	-16.727	- 397
[φ Virginis]	191	5.0	14 23 9.097	+3.0870	-102	- 1 47 19.95	-16.267	- 2
ρ Bootis	192	3.6	14 27 36.394	+2.5857	- 85	+30 48 5.16	-15.910	+ 125
γ Bootis	193	2.9	14 28 7.904	+2.4160	-108	+38 44 12.11	-15.854	+ 153
[Gr. 2125]	460	6.0	14 29 3.083	+1.6237	- 93	+60 39 24.92	-15.984	- 26
[33 Bootis]	461	5.6	14 35 11.398	+2.2329	- 72	+44 49 37.06	-15.684	- 56
π Bootis pr.	194	4.3	14 36 7.166	+2.8168	- 12	+16 50 16.45	-15.596	- 20
[ζ Bootis m. ¹⁾]	195	3.3	14 36 28.062	+2.8621	+ 19	+14 8 54.74	-15.567	- 10
μ Virginis	196	4.0	14 37 53.627	+3.1561	+ 56	- 5 13 56.34	-15.784	- 305
109 Virginis	197	3.6	14 41 17.560	+3.0285	- 94	+ 2 18 20.25	-15.314	- 27
[8 Librae]	589	6.0	14 45 15.801	+3.3092	- 98	-15 35 25.31	-15.150	- 90
α Librae	590	2.3	14 45 27.279	+3.3107	- 93	-15 38 5.74	-15.121	- 72
Gr. 2164	462	5.8	14 48 57.082	+1.5188	-167	+59 41 32.58	-14.676	+ 169
β Ursae min.	198	2.0	14 50 59.134	-0.2192	- 76	+74 33 21.24	-14.731	- 5
P. XIV, 221	463	6.0	14 51 35.696	+2.8302	- 14	+14 50 32.45	-14.668	+ 20
[2H. Urs.min.]	464	5.0	14 56 1.601	+0.9473	- 74	+66 19 22.78	-14.363	+ 59
β Bootis	199	3.0	14 58 15.259	+2.2587	- 48	+40 46 36.84	-14.321	- 36
γ Scorpil	591	3.4	14 58 19.895	+3.5013	- 70	-24 53 49.38	-14.315	- 33
ψ Bootis	465	4.3	15 0 14.748	+2.5692	-145	+27 19 46.23	-14.170	- 8
[ι Librae]	592	4.6	15 6 37.996	+3.4118	- 37	-19 25 16.41	-13.805	- 42
[3 Serpentis]	466	5.8	15 10 19.048	+2.9792	- 20	+ 5 18 10.43	-13.523	+ 3
δ Bootis	201	3.0	15 11 33.126	+2.4188	+ 69	+33 40 49.16	-13.552	- 105
β Librae	200	2.0	15 11 43.902	+3.2224	- 79	- 9 1 17.65	-13.451	- 17
I H. Urs. min.	467	5.3	15 13 30.571	+0.6701	+366	+67 43 7.64	-13.712	- 391

1) Dupl. 3^m.8 u. 4^m.2, 1".

N a m e	Nr. des Fund. Kat.	Gr.	AR. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .0001	Decl. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .001
μ Bootis	202	3.8	15 ^h 20 ^m 47.208	+2.2637	-147	+37° 43' 14.04	-12.751	+ 84
γ Ursae min.	203	3.0	15 20 53.056	-0.1198	+ 40	+72 10 57.92	-12.811	+ 19
[ε ¹ Serpensis]	468	5.4	15 21 14.578	+2.7783	- 39	+15 46 21.45	-12.800	+ 5
ι Draconis	204	3.0	15 22 44.860	+1.3282	- 20	+59 18 33.62	-12.682	+ 22
β Coron. bor.	205	3.8	15 23 47.330	+2.4733	-134	+29 26 35.33	-12.559	+ 75
ν ¹ Bootis	206	4.5	15 27 24.557	+2.1540	+ 5	+41 10 0.64	-12.400	- 14
[ν ² Bootis]	207	4.8	15 28 16.441	+2.1453	- 34	+41 13 54.00	-12.342	- 17
[θ Coron. bor.]	208	4.0	15 28 58.527	+2.4147	- 55	+31 41 22.56	-12.297	- 20
γ Librae	593	4.3	15 30 2.582	+3.3501	+ 37	-14 27 46.05	-12.186	+ 19
α Coron. bor.	209	2.0	15 30 32.299	+2.5389	+ 85	+27 2 39.33	-12.264	- 94
[φ Bootis]	469	5.0	15 34 18.460	+2.1536	+ 51	+40 40 19.74	-11.852	+ 53
[ζ Cor. bor. sq.]	210	4.3	15 35 41.166	+2.2565	- 36	+36 57 13.64	-11.806	0
[γ Coron. bor.]	211	3.8	15 38 37.627	+2.5184	- 82	+26 36 20.55	-11.566	+ 34
α Serpensis	212	2.3	15 39 26.381	+2.9516	+ 79	+ 6 44 1.31	-11.486	+ 56
β Serpensis	213	3.3	15 41 39.795	+2.7658	+ 29	+15 43 42.11	-11.423	- 41
α Serpensis	215	4.0	15 44 19.692	+2.6988	- 39	+18 26 38.55	-11.272	- 83
μ Serpensis	214	3.3	15 44 30.235	+3.1257	- 78	- 3 7 49.47	-11.180	- 3
[ι ² H. Dracon.]	470	5.3	15 45 10.338	+0.9064	+ 70	+62 54 8.19	-11.190	- 63
ε Serpensis	216	3.3	15 45 55.754	+2.9865	+ 68	+ 4 46 20.60	-11.014	+ 59
ζ Ursae min.	217	4.3	15 47 32.688	-2.2357	+ 30	+78 5 46.01	-10.959	- 4
[γ Serpensis]	218	3.6	15 51 55.507	+2.7673	+194	+15 58 52.37	-11.918	-1286
ε Coron. bor.	219	4.0	15 53 31.764	+2.4813	- 74	+27 9 41.05	-10.573	- 62
δ Scorpii	594	2.3	15 54 32.208	+3.5401	- 18	-22 20 35.44	-10.465	- 28
[Gr. 2296]	471	5.1	15 55 27.644	+1.4117	-254	+55 1 35.11	-10.263	+ 103
β Scorpii	595	2.0	15 59 44.185	+3.4808	- 26	-19 32 15.62	-10.074	- 27
θ Draconis	220	3.6	16 0 3.262	+1.1220	-371	+58 49 36.89	- 9.676	+ 344
[φ Herculis]	221	4.0	16 5 40.599	+1.8811	-100	+45 11 30.01	- 9.549	+ 43
δ Ophiuchi	222	3.0	16 9 12.493	+3.1390	- 49	- 3 26 32.00	- 9.458	- 137
ε Ophiuchi	223	3.3	16 13 8.067	+3.1699	+ 40	- 4 27 14.55	- 8.981	+ 34
ι ⁹ Ursae min.	472	5.8	16 13 36.490	-1.7711	- 50	+76 7 27.53	- 8.975	+ 3
τ Herculis	224	3.3	16 16 47.540	+1.7975	- 50	+46 32 47.46	- 8.691	+ 36
γ Herculis	225	3.1	16 17 35.746	+2.6438	- 49	+19 22 58.91	- 8.616	+ 48
[η Ursae min.]	474	5.1	16 20 21.763	-1.8023	-196	+75 58 52.83	- 8.192	+ 253
[ω Herculis]	473	5.0	16 20 53.402	+2.7613	- 30	+14 15 31.69	- 8.436	- 33
[Gr. 2343]	475	5.6	16 22 16.767	+1.3107	+ 40	+55 25 39.33	- 8.305	- 12

N a m e	Nr. des Fund. Kat.	Gr.	AR. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .0001	Decl. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .001
η Draconis	226	2.6	16 ^h 22 ^m 40 ^s .108	+0.8133	+ 60	+61° 44' 8.86	-8.212	+ 50
α Scorpii	596	1.3	16 23 23.790	+3.6712	- 22	-26 12 54.04	-8.232	- 28
[λ Ophiuchi ¹⁾	227	3.7	16 25 58.188	+3.0230	- 27	+ 2 11 53.31	-8.061	- 65
β Herculis	228	2.3	16 26 0.336	+2.5757	- 90	+21 42 10.30	-8.007	- 12
Δ Draconis	229	5.0	16 28 10.159	-0.1395	- 90	+68 58 48.71	-7.785	+ 36
σ Herculis	230	4.1	16 30 56.589	+1.9317	- 20	+42 38 19.59	-7.570	+ 26
ζ Ophiuchi	597	2.6	16 31 45.653	+3.2988	- 7	-10 22 7.90	-7.496	+ 35
[Gr. 2373]	476	6.0	16 34 51.264	-2.6337	-215	+77 38 30.44	-7.002	+277
[ξ Herculis]	231	2.6	16 37 35.559	+2.2620	-357	+31 46 48.82	-6.644	+409
η Herculis	232	3.1	16 39 32.175	+2.0551	+ 28	+39 6 30.70	-6.973	- 77
Gr. 2377	477	5.0	16 43 26.374	+1.1364	+ 51	+56 57 24.37	-6.519	+ 56
49 Herculis	478	6.0	16 47 37.121	+2.7293	+ 3	+15 8 18.12	-6.229	- 1
z Ophiuchi	233	3.3	16 53 1.698	+2.8367	-212	+ 9 31 38.20	-5.761	+ 15
ε Ursae min.	235	4.3	16 55 59.627	-6.2979	+ 90	+82 11 56.62	-5.530	- 3
ε Herculis	234	3.3	16 56 32.372	+2.2933	- 47	+31 4 13.63	-5.449	+ 32
[60 Herculis]	479	5.0	17 0 49.979	+2.7804	+ 30	+12 52 30.56	-5.122	- 2
[Gr. 2415]	480	6.0	17 4 34.785	+1.9502	- 84	+40 38 38.36	-4.815	- 14
η Ophiuchi	598	2.3	17 4 45.354	+3.4357	+ 3	-15 36 13.99	-4.690	+ 97
ζ Draconis	236	3.0	17 8 30.117	+0.1657	- 27	+65 50 7.21	-4.446	+ 22
α Herculis ²⁾	237	var.	17 10 10.685	+2.7333	- 19	+14 30 5.94	-4.294	+ 30
δ Herculis	238	3.0	17 11 0.336	+2.4621	- 28	+24 57 16.30	-4.406	-153
π Herculis	239	3.1	17 11 37.983	+2.0871	- 35	+36 55 9.46	-4.194	+ 5
θ Ophiuchi	599	3.4	17 15 59.357	+3.6796	- 24	-24 54 8.17	-3.862	- 35
[x Herculis]	481	5.8	17 24 8.259	+1.5857	- 28	+48 20 30.60	-3.161	- 34
β Draconis	240	2.6	17 28 13.089	+1.3532	- 20	+52 22 25.35	-2.767	+ 4
[v ¹ Draconis]	242	4.7	17 30 14.796	+1.1803	+183	+55 15 3.81	-2.548	+ 49
[v ² Draconis]	243	4.7	17 30 20.157	+1.1806	+179	+55 14 22.36	-2.545	+ 45
α Ophiuchi	241	2.0	17 30 23.064	+2.7822	+ 66	+12 37 52.10	-2.800	-217
ξ Serpents	600	3.6	17 31 58.429	+3.4317	- 50	-15 20 13.49	-2.492	- 47
[f Draconis]	482	5.3	17 32 21.144	-0.2515	- 71	+68 11 50.46	-2.289	+125
ι Herculis	244	3.3	17 36 41.927	+1.6924	- 5	+46 3 29.54	-2.037	- 2
ω Draconis	483	5.0	17 37 31.489	-0.3545	+ 23	+68 48 11.26	-1.656	+308
β Ophiuchi	245	3.0	17 38 37.818	+2.9614	- 41	+ 4 36 28.93	-1.699	+167
μ Herculis	246	3.3	17 42 37.381	+2.3461	-244	+27 46 39.72	-2.263	-745
[γ Ophiuchi]	247	3.6	17 42 58.643	+3.0052	- 37	+ 2 44 38.14	-1.544	- 56

1) Dupl. 4^m u. 6^m, 1ⁿ.

2) Gröfse zwischen 3.2 u. 4.0.

N a m e	Nr. des Fund- Kat.	Gr.	AR. 1902.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einhl. von 0°.0001	Decl. 1902.0	Jährl. Verän- derung	Jährl. Eigen- bew. in Einhl. von 0°.001
♃ Drac. austr.	484	4.6	17 ^h 43 ^m 40.668	- 1.0802	- 1	+72° 11' 49.31	-1.695	-268
ξ Draconis	248	3.3	17 51 50.291	+ 1.0414	+ 169	+56 53 16.27	-0.637	+ 78
♁ Herculis	249	4.0	17 52 53.431	+ 2.0539	- 23	+37 15 47.97	-0.603	+ 19
ν Ophiuchi	250	3.6	17 53 37.831	+ 3.3006	- 21	- 9 45 41.48	-0.653	- 97
35 Draconis	485	5.0	17 53 50.149	- 2.6900	+ 127	+76 58 33.35	-0.300	+240
[ξ Herculis]	251	3.6	17 53 57.386	+ 2.3302	+ 60	+29 15 28.70	-0.557	- 28
γ Draconis	252	2.3	17 54 19.788	+ 1.3909	- 18	+51 30 0.50	-0.524	- 28
67 Ophiuchi	253	4.0	17 55 44.283	+ 3.0059	+ 17	+ 2 56 9.89	-0.378	- 5
γ Sagittarii	601	3.3	17 59 30.738	+ 3.8524	- 54	-30 25 33.05	-0.253	-211
72 Ophiuchi	254	3.3	18 2 42.160	+ 2.8423	- 56	+ 9 32 58.82	+0.326	+ 89
ο Herculis	255	3.8	18 3 43.158	+ 2.3385	- 10	+28 44 55.28	+0.324	- 1
♁ Ursae min.	256	4.3	18 3 53.857	-19.4876	+ 266	+86 36 48.34	+0.381	+ 40
μ Sagittarii	602	4.0	18 7 54.129	+ 3.5866	- 14	-21 5 5.61	+0.693	+ 1
[Gr. 2533]	486	5.4	18 12 35.643	+ 1.8578	- 78	+42 7 32.75	+1.106	+ 4
[36 Draconis]	487	5.0	18 13 19.866	+ 0.3436	+ 518	+64 21 49.83	+1.177	+ 15
η Serpentis	257	3.0	18 16 14.245	+ 3.1008	- 400	- 2 55 27.67	+0.744	-677
109 Herculis	258	4.0	18 19 31.288	+ 2.5551	+ 131	+21 43 29.18	+1.449	-257
[φ Draconis] ¹⁾	489	4.3	18 22 9.863	- 0.8551	- 1	+71 17 8.37	+1.956	+ 20
δ Draconis	488	5.1	18 22 28.729	+ 0.8759	- 51	+58 44 37.18	+2.013	+ 49
γ Draconis	259	3.8	18 22 49.357	- 1.0825	+1137	+72 41 25.34	+1.619	-370
α Lyrae	260	1	18 33 37.224	+ 2.0309	+ 172	+38 41 32.39	+3.226	+296
[Gr. 2655]	490	6.0	18 34 29.432	- 2.8659	+ 87	+77 28 13.98	+2.991	- 15
[Gr. 2640]	491	6.0	18 35 54.662	+ 0.1857	- 30	+65 24 1.95	+3.156	+ 27
[ε Lyrae a. pr.]	261	4.5	18 41 5.457	+ 1.9837	- 22	+39 34 2.86	+3.656	+ 80
[5 Lyrae m.]	262	4.6	18 41 7.926	+ 1.9876	- 5	+39 30 35.95	+3.654	+ 74
110 Herculis	263	4.0	18 41 26.596	+ 2.5793	- 30	+20 27 7.55	+3.259	-348
β Lyrae ²⁾	264	var.	18 46 27.688	+ 2.2136	- 7	+33 14 55.79	+4.055	+ 17
σ Sagittarii	603	2.3	18 49 11.312	+ 3.7204	- 12	-26 25 7.84	+4.205	- 67
ο Draconis	265	4.6	18 49 45.309	+ 0.8860	+ 90	+59 16 6.42	+4.342	+ 23
♁ Serpent. pr.	266	4.2	18 51 20.814	+ 2.9809	+ 10	+ 4 4 33.73	+4.504	+ 49
R Lyrae ³⁾	492	var.	18 52 21.168	+ 1.8248	+ 14	+43 48 59.99	+4.611	+ 70
[ε Aquilae]	267	4.0	18 55 10.462	+ 2.7215	- 49	+14 56 5.45	+4.701	- 80
γ Lyrae	268	3.3	18 55 16.610	+ 2.2423	- 18	+32 33 17.84	+4.801	+ 11
[ν Draconis]	493	5.1	18 55 36.011	- 0.7214	+ 103	+71 9 58.18	+4.848	+ 31
ζ Aquilae	270	3.0	19 0 54.292	+ 2.7552	- 26	+13 43 3.03	+5.177	- 89

1) Dupl. 4.5^m u. 6.7^m, 0°.6.

2) Größe zwischen 3.4 u. 4.5.

3) Größe zwischen 4.3 u. 4.6.

N a m e	Nr. des Fund.-Kat.	Gr.	AR. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^o .0001	Decl. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^o .001
λ Aquilae	269	3.1	19 ^h 1 ^m 2.837	+ 3.1824	- 38	- 5° 1' 47.17	+ 5.199	- 80
[1 Lyrae]	494	5.0	19 3 48.297	+ 2.1400	- 7	+35 56 46.97	+ 5.520	+ 9
π Sagittarii	604	3.1	19 3 56.150	+ 3.5685	- 22	-21 10 47.39	+ 5.488	- 34
δ Draconis	271	3.0	19 12 31.997	+ 0.0231	+155	+67 29 20.68	+ 6.320	+ 80
♁ Lyrae	496	4.3	19 12 57.880	+ 2.0781	- 42	+37 57 31.83	+ 6.278	0
ω Aquilae	495	5.6	19 13 12.970	+ 2.8150	- 14	+11 25 6.46	+ 6.323	+ 25
z Cygni	272	4.0	19 14 50.304	+ 1.3877	+ 65	+53 11 14.60	+ 6.544	+112
τ Draconis	273	4.8	19 17 26.461	- 1.1289	-316	+73 10 25.22	+ 6.755	+107
λ Ursae min.	284	6.4	19 20 14.108	-68.3095	-502	+88 59 29.36	+ 6.871	- 6
δ Aquilae	274	3.3	19 20 33.406	+ 3.0240	+153	+ 2 55 8.71	+ 6.995	+ 91
β Cygni	275	3.0	19 26 46.109	+ 2.4174	- 17	+27 45 12.32	+ 7.392	- 20
ι Cygni	276	4.1	19 27 14.149	+ 1.5135	+ 21	+51 31 14.62	+ 7.571	+121
[Gr. 2900]	497	6.3	19 27 37.608	- 3.5568	+ 20	+79 24 24.00	+ 7.449	- 32
k Sagittarii	605	4.6	19 30 44.579	+ 3.6521	+ 16	-25 6 0.52	+ 7.725	- 10
♁ Cygni	498	4.6	19 33 48.804	+ 1.6084	- 34	+49 59 37.94	+ 8.220	+239
[15 Cygni]	499	5.3	19 40 44.565	+ 2.1637	+ 64	+37 7 2.61	+ 8.576	+ 42
γ Aquilae	277	3.0	19 41 36.003	+ 2.8512	- 5	+10 22 27.15	+ 8.609	+ 8
δ Cygni	278	2.8	19 41 54.746	+ 1.8752	+ 46	+44 53 28.46	+ 8.661	+ 35
δ Sagittae	279	4.0	19 43 1.024	+ 2.6733	- 15	+18 17 32.94	+ 8.750	+ 37
α Aquilae	280	1.3	19 46 0.090	+ 2.9268	+351	+ 8 36 33.10	+ 9.330	+384
[17 Aquilae] ¹⁾	281	var.	19 47 28.794	+ 3.0553	- 17	+ 0 45 13.84	+ 9.060	- 3
ε Draconis	282	3.8	19 48 30.346	- 0.1870	+123	+70 1 5.66	+ 9.158	+ 16
β Aquilae	283	4.0	19 50 29.921	+ 2.9455	+ 7	+ 6 9 42.33	+ 8.825	-473
♁ Cygni	285	5.2	19 53 5.752	+ 1.5502	- 59	+52 10 42.31	+ 9.453	- 46
γ Sagittae	286	3.6	19 54 23.899	+ 2.6664	+ 30	+19 13 33.04	+ 9.636	+ 37
♁ Aquilae	287	3.0	20 6 14.853	+ 3.0947	- 1	- 1 6 44.75	+10.510	+ 14
σ ¹ sq. Cygni ²⁾	288	4.5	20 10 32.741	+ 1.8884	- 4	+46 26 37.97	+10.817	+ 2
[33 Cygni]	500	4.3	20 11 7.297	+ 1.3994	+ 98	+56 16 2.87	+10.916	+ 60
z Cephei	502	4.3	20 12 11.679	- 1.9483	- 15	+77 24 58.74	+10.949	+ 14
[α ¹ Capric.]	606	4.3	20 12 12.953	+ 3.3267	- 8	-12 48 40.40	+10.963	+ 26
24 Vulpecul.	501	5.8	20 12 35.457	+ 2.5662	+ 4	+24 22 7.42	+10.933	- 32
α ² Capric.	607	3.3	20 12 37.036	+ 3.3302	+ 22	-12 50 55.90	+10.983	+ 17
[β Capric.]	608	3.0	20 15 30.333	+ 3.3728	+ 8	-15 5 27.94	+11.200	+ 22
γ Cygni	289	2.4	20 18 42.682	+ 2.1521	- 1	+39 56 34.54	+11.428	+ 19
[ρ Capric.]	609	5.1	20 23 16.294	+ 3.4250	- 28	-18 8 16.36	+11.728	- 7

1) GröÙe zwischen 3.5 u. 4.7.

2) 30 (σ¹ pr.) Cygni geht 19^s voran, 4^o.5 nördlich; 7^m.8 folgt 1^s, 1^o.6 südlich.

N a m e	Nr. des Fund- Kat.	Gr.	AR. 1902.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0 ^a .0001	Decl. 1902.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einh. von 0 ^a .001
♁ Cephei	291	4.0	20 ^h 27 ^m 56 ^s .255	+1.0116	+ 46	+62° 39' 51.99	+12.037	— 27
ε Delphini	290	4.0	20 28 31.843	+2.8655	— 6	+10 58 11.63	+12.084	— 22
73 Draconis	504	5.3	20 32 48.350	—0.7442	+ 19	+74 37 7.63	+12.379	— 21
β Delphini	292	3.3	20 32 57.157	+2.8115	+ 55	+14 15 14.28	+12.382	— 29
[α Delphini]	503	5.0	20 34 22.157	+2.9131	+ 197	+ 9 44 26.49	+12.519	+ 12
υ Capric.	610	5.6	20 34 28.299	+3.4185	— 34	—18 29 1.68	+12.529	+ 13
α Delphini	293	3.6	20 35 5.140	+2.7856	+ 31	+15 33 57.80	+12.555	— 2
α Cygni	294	1.6	20 38 5.458	+2.0438	— 3	+44 55 47.79	+12.764	+ 3
[δ Delphini]	295	4.0	20 38 53.004	+2.8000	— 25	+14 43 22.10	+12.772	— 43
[γ Delph. sq.]	296	4.0	20 42 6.693	+2.7823	— 34	+15 46 15.09	+12.835	— 196
ε Cygni	298	2.6	20 42 14.746	+2.4260	+ 280	+33 36 10.66	+13.374	+ 336
ε Aquarii	297	3.6	20 42 22.256	+3.2489	— 2	— 9 51 17.38	+13.020	— 27
[6 H. Cephei]	505	4.8	20 42 55.086	+1.4869	— 120	+57 13 39.92	+12.839	— 246
η Cephei	299	3.6	20 43 17.816	+1.2260	+ 123	+61 27 28.62	+13.919	+ 810
λ Cygni ¹⁾	506	4.6	20 43 35.420	+2.3340	— 11	+36 7 49.72	+13.147	+ 18
76 Draconis	508	6.0	20 49 42.353	—4.0871	+ 142	+82 10 6.75	+13.537	+ 8
32 Vulpecul.	507	5.3	20 50 22.986	+2.5548	— 16	+27 41 4.57	+13.570	— 2
[Br. 2749]	509	5.9	20 52 3.009	—2.5847	— 75	+80 11 5.78	+13.638	— 40
ν Cygni	300	4.0	20 53 31.157	+2.2344	0	+40 47 23.13	+13.774	+ 1
[ξ Cygni]	301	4.0	21 1 21.986	+2.1806	+ 6	+43 32 11.59	+14.255	— 8
61 Cygni pr.	302	5.7	21 2 30.027	+2.6799	+3443	+38 16 1.46	+17.553	+3240
ν Aquarii	611	4.3	21 4 15.370	+3.2702	+ 43	—11 46 7.51	+14.434	— 7
Br. 2777	510	5.8	21 7 27.991	—1.1225	+ 68	+77 43 44.32	+14.656	+ 23
ζ Cygni	303	3.0	21 8 45.860	+2.5505	— 15	+29 49 28.66	+14.645	— 66
[Gr. 3415 ²⁾	511	5.8	21 9 18.553	+1.5281	— 13	+59 34 59.80	+14.725	— 18
[τ Cygni]	305	4.0	21 10 52.700	+2.3917	+ 120	+37 37 37.33	+15.296	+ 460
α Equulei	304	4.0	21 10 55.473	+2.9986	+ 21	+ 4 50 32.97	+14.761	— 78
α Cephei	306	2.6	21 16 14.468	+1.4345	+ 210	+62 10 12.03	+15.172	+ 26
1 Pegasi	512	4.3	21 17 33.197	+2.7730	+ 64	+19 23 6.20	+15.298	+ 75
ζ Capric.	612	4.1	21 21 4.397	+3.4313	— 13	—22 50 10.84	+15.435	+ 13
[9 Cygni ³⁾	513	5.0	21 25 49.868	+2.2093	+ 23	+46 6 29.02	+15.780	+ 96
β Aquarii	307	3.0	21 26 23.996	+3.1594	— 6	— 6 0 9.12	+15.715	— 1
β Cephei	308	3.0	21 27 23.887	+0.7890	+ 12	+70 7 49.16	+15.757	— 12
74 Cygni	514	5.0	21 33 1.216	+2.4014	— 10	+39 58 22.41	+16.077	+ 9
[γ Capric.]	613	3.6	21 34 39.738	+3.3283	+ 119	—17 6 18.53	+16.141	— 13

1) Dupl. 5^m u. 6.7^m, 0^a.6.2) Dupl. 6^m.2 u. 7^m.2, 1^a.1.3) 6.7^m folgt 10^a, 7' südlich.

N a m e	Nr. des Fund.-Kat.	Gr.	AR. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .0001	Decl. 1902.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0 ^s .001
[13 H. Cephei]	515	6.0	21 ^h 35 ^m 55.159	+1.8610	+ 9	+57° 2' 44.20"	+16.204	— 15
ε Pegasi	309	2.3	21 39 22.353	+2.9457	+ 8	+ 9 25 31.96	+16.406	+ 11
[z Pegasi]	310	4.0	21 40 12.338	+2.7125	0	+25 11 39.67	+16.449	+ 13
[11 Cephei]	516	5.0	21 40 29.209	+0.8909	+208	+70 51 36.33	+16.530	+ 80
[λ Capric.]	614	5.3	21 41 15.675	+3.2328	+ 9	—11 49 6.34	+16.477	— 13
δ Capric.	615	3.0	21 41 37.956	+3.3151	+166	—16 34 20.27	+16.210	—297
π ² Cygni	517	4.3	21 43 10.355	+2.2138	+ 11	+48 51 20.85	+16.562	— 21
16 Pegasi	518	5.3	21 48 36.148	+2.7270	— 5	+25 27 49.76	+16.844	— 2
[20 Pegasi]	519	5.8	21 56 18.895	+2.9218	+ 32	+12 39 0.76	+17.153	— 50
α Aquarii	311	3.0	22 0 45.001	+3.0811	— 8	— 0 47 45.85	+17.401	+ 2
ι Aquarii	616	4.0	22 1 8.662	+3.2421	0	—14 20 43.11	+17.367	— 49
20 Cephei	520	5.8	22 2 1.706	+1.8209	+ 21	+62 18 26.67	+17.499	+ 45
[1 Pegasi]	312	4.0	22 2 26.878	+2.7896	+209	+24 51 58.20	+17.489	+ 18
[27 Pegasi]	313	5.7	22 4 53.052	+2.6547	— 50	+32 41 36.59	+17.515	— 61
θ Pegasi	314	3.3	22 5 15.375	+3.0260	+175	+ 5 42 56.11	+17.632	+ 40
π Pegasi	315	4.2	22 5 38.043	+2.6601	— 20	+32 41 50.40	+17.602	— 5
ζ Cephei	316	3.4	22 7 27.103	+2.0733	— 16	+57 43 4.75	+17.677	— 6
24 Cephei	521	4.8	22 7 55.382	+1.1582	+ 21	+71 51 30.19	+17.695	— 7
θ Aquarii	522	4.3	22 11 39.763	+3.1669	+ 57	— 8 16 17.15	+17.834	— 19
γ Aquarii	317	3.4	22 16 35.652	+3.0986	+ 68	— 1 52 52.70	+18.063	+ 17
[31 Pegasi]	523	4.8	22 16 41.599	+2.9507	— 13	+11 42 40.41	+18.059	+ 10
3 Lacertae	524	4.4	22 19 42.250	+2.3509	— 36	+51 44 16.07	+17.960	—203
[z Cephei] ¹⁾	318	var.	22 25 31.836	+2.2189	+ 4	+57 54 48.34	+18.363	— 9
7 Lacertae	319	4.0	22 27 15.126	+2.4635	+131	+49 46 42.20	+18.436	+ 4
η Aquarii	320	3.8	22 30 19.209	+3.0824	+ 42	— 0 37 22.06	+18.484	— 53
[31 Cephei]	525	5.1	22 33 21.027	+1.4866	+419	+73 8 4.00	+18.659	+ 24
10 Lacertae	526	5.0	22 34 51.768	+2.6873	+ 11	+38 32 24.33	+18.685	0
[30 Cephei]	527	5.3	22 35 10.290	+2.1180	— 26	+63 4 29.07	+18.655	— 39
ζ Pegasi	321	3.3	22 36 34.437	+2.9905	+ 44	+10 19 10.29	+18.721	— 18
η Pegasi	322	3.0	22 38 24.435	+2.8070	+ 1	+29 42 30.65	+18.762	— 33
[13 Lacertae]	528	6.0	22 39 43.117	+2.6668	— 29	+41 18 17.03	+18.847	+ 12
λ Pegasi	323	4.0	22 41 48.582	+2.8856	+ 31	+23 2 59.45	+18.893	— 4
[τ Aquarii]	617	4.0	22 44 24.201	+3.1785	— 30	—14 6 36.75	+18.931	— 40
[μ Pegasi]	324	4.0	22 45 16.324	+2.8910	+ 96	+24 5 2.24	+18.954	— 42
ι Cephei	325	3.4	22 46 11.309	+2.1221	—142	+65 41 5.09	+18.882	—140

1) Größe zwischen 3.8 u. 5.0.

N a m e	Nr. des Fund. Kat.	Gr. s	AR. 1902.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einl. von 0 ^o .0001	Decl. 1902.0	Jährl. Verände- rung	Jährl. Eigen- bew. in Einl. von 0 ^o .0001
λ Aquarii	326	4.0	22 47 ^h 30 ^m .086	+3.1303	— 16	— 8° 6' 4.59	+19.098	+ 40
δ Aquarii	618	3.0	22 49 26.963	+3.1864	— 51	—16 20 31.51	+19.100	— 10
α Piscis austr.	619	1.3	22 52 14.156	+3.3221	+ 232	—30 8 30.94	+19.023	—159
ο Androm.	327	3.6	22 57 24.603	+2.7511	+ 7	+41 47 57.08	+19.309	0
β Pegasi 1)	328	var.	22 59 1.313	+2.9024	+ 130	+27 33 3.61	+19.480	+133
α Pegasi	329	2.0	22 59 52.683	+2.9847	+ 28	+14 40 40.62	+19.336	— 30
ε ² Aquarii	620	4.0	23 4 13.339	+3.2023	+ 14	—21 42 15.89	+19.515	+ 54
π Cephei	529	4.6	23 4 46.752	+1.8978	+ 39	+74 51 27.39	+19.432	— 41
Br. 3077	530	6.0	23 8 33.609	+2.8692	+2499	+56 37 37.41	+19.831	+286
[γ Piscium]	330	4.0	23 12 5.039	+3.1082	+ 487	+ 2 44 48.12	+19.633	+ 17
τ Pegasi	531	4.6	23 15 47.095	+2.9638	+ 9	+23 12 13.33	+19.667	— 14
4 Cassiopej.	533	5.8	23 20 28.877	+2.6470	+ 10	+61 44 40.46	+19.734	— 21
[υ Pegasi]	532	4.6	23 20 29.138	+2.9873	+ 112	+22 51 52.14	+19.794	+ 39
κ Piscium	534	5.3	23 21 54.471	+3.0741	+ 41	+ 0 43 8.23	+19.675	—102
70 Pegasi	535	5.0	23 24 11.803	+3.0290	+ 13	+12 13 10.88	+19.838	+ 30
[72 Pegasi]	536	5.6	23 29 5.324	+2.9675	+ 19	+30 47 3.64	+19.865	— 5
[λ Androm.]	331	4.0	23 32 45.962	+2.9247	+ 158	+45 55 37.35	+19.486	—425
ι Androm.	332	4.0	23 33 19.665	+2.9308	+ 14	+42 43 31.18	+19.905	— 12
ι Piscium	333	4.3	23 34 54.523	+3.0831	+ 234	+ 5 5 41.85	+19.490	—443
γ Cephei	334	3.3	23 35 19.231	+2.4261	— 202	+77 5 6.65	+20.071	+135
[κ Androm.]	335	4.1	23 35 34.748	+2.9433	+ 69	+43 47 28.39	+19.914	— 24
ω ² Aquarii	621	4.6	23 37 38.428	+3.1131	+ 53	—15 5 12.64	+19.902	— 55
41 H. Cephei	537	5.6	23 43 13.046	+2.8354	— 40	+67 15 44.09	+19.988	— 10
Lac. δ Sculpt.	622	4.4	23 43 49.225	+3.1278	+ 36	—28 40 20.28	+19.905	— 97
φ Pegasi	538	5.6	23 47 30.014	+3.0450	— 33	+18 34 33.08	+19.981	— 42
[ρ Cassiopej.]	539	4.8	23 49 28.984	+2.9753	— 32	+56 57 14.13	+20.018	— 12
ω Piscium	336	4.0	23 54 16.666	+3.0778	+ 87	+ 6 19 14.78	+19.938	—108

1) Größe zwischen 2.2 u. 2.7.

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

Obere Culmination.

1902	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .4.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	0 ^h 55 ^m	+85° 44'	1 ^h 23 ^m	+88° 47'	4 ^h 5 ^m	+85° 17'
Jan. 1	25.82 ²⁸	16.75 ³	64.94 ⁹⁵	25.90 ⁸	60.15 ¹⁴	55.64 ²⁴
2	25.54 ²⁶	16.78 ³	63.99 ⁹⁰	25.98 ⁶	60.01 ¹³	55.88 ²²
3	25.28 ²⁵	16.81 ⁴	63.09 ⁸⁶	26.04 ⁷	59.88 ¹²	56.10 ²³
4	25.03 ²⁴	16.85 ⁴	62.23 ⁸⁵	26.11 ⁹	59.76 ¹¹	56.33 ²⁴
5	24.79 ²⁵	16.89 ⁵	61.38 ⁸⁶	26.20 ⁹	59.65 ¹²	56.57 ²⁴
6	24.54 ²⁶	16.94 ⁵	60.52 ⁹¹	26.29 ¹⁰	59.53 ¹¹	56.81 ²⁶
7	24.28 ²⁸	16.99 ⁶	59.61 ⁹⁶	26.39 ¹¹	59.42 ¹³	57.07 ²⁷
8	24.00 ²⁹	17.05 ⁵	58.65 ¹⁰²	26.50 ¹⁰	59.29 ¹⁴	57.34 ²⁸
9	23.71 ³⁰	17.10 ⁴	57.63 ¹⁰⁷	26.60 ⁹	59.15 ¹⁵	57.62 ²⁸
10	23.41 ³²	17.14 ²	56.56 ¹¹¹	26.69 ⁷	59.00 ¹⁸	57.90 ²⁷
11	23.09 ³²	17.16 ¹	55.45 ¹¹³	26.76 ⁵	58.82 ¹⁸	58.17 ²⁷
12	22.77 ³¹	17.17 ²	54.32 ¹¹³	26.81 ³	58.64 ²⁰	58.44 ²⁴
13	22.46 ³⁰	17.15 ⁴	53.19 ¹⁰⁹	26.84 ²	58.44 ²⁰	58.68 ²³
14	22.16 ²⁸	17.11 ⁵	52.10 ¹⁰³	26.86 ⁰	58.24 ¹⁹	58.91 ²⁰
15	21.88 ²⁷	17.06 ⁵	51.07 ⁹⁸	26.86 ¹	58.05 ¹⁹	59.11 ¹⁹
16	21.61 ²⁵	17.01 ⁶	50.09 ⁹²	26.85 ¹	57.86 ¹⁷	59.30 ¹⁷
17	21.36 ²⁵	16.95 ⁴	49.17 ⁸⁹	26.84 ¹	57.69 ¹⁶	59.47 ¹⁷
18	21.11 ²⁴	16.91 ⁴	48.28 ⁸⁸	26.83 ⁰	57.53 ¹⁶	59.64 ¹⁸
19	20.87 ²⁵	16.87 ³	47.40 ⁹⁰	26.83 ²	57.37 ¹⁶	59.82 ²⁰
20	20.62 ²⁶	16.84 ²	46.50 ⁹³	26.85 ³	57.21 ¹⁶	60.02 ²⁰
21	20.36 ²⁷	16.82 ²	45.57 ⁹⁸	26.88 ²	57.05 ¹⁷	60.22 ²²
22	20.09 ²⁹	16.80 ³	44.59 ¹⁰⁴	26.90 ²	56.88 ¹⁹	60.44 ²¹
23	19.80 ³⁰	16.77 ⁵	43.55 ¹⁰⁹	26.92 ⁰	56.69 ²¹	60.65 ²²
24	19.50 ³⁰	16.72 ⁷	42.46 ¹¹²	26.92 ²	56.48 ²²	60.87 ²¹
25	19.20 ³¹	16.65 ¹⁰	41.34 ¹¹³	26.90 ⁴	56.26 ²⁴	61.08 ¹⁹
26	18.89 ³⁰	16.55 ¹¹	40.21 ¹¹¹	26.86 ⁷	56.02 ²⁵	61.27 ¹⁷
27	18.59 ²⁸	16.44 ¹⁴	39.10 ¹⁰⁶	26.79 ¹⁰	55.77 ²⁴	61.44 ¹⁴
28	18.31 ²⁷	16.30 ¹⁵	38.04 ¹⁰¹	26.69 ¹⁰	55.53 ²⁴	61.58 ¹²
29	18.04 ²⁵	16.15 ¹⁵	37.03 ⁹⁵	26.59 ¹¹	55.29 ²⁴	61.70 ¹⁰
30	17.79 ²³	16.00 ¹⁴	36.08 ⁸⁹	26.48 ¹¹	55.05 ²³	61.80 ¹⁰
31	17.56 ²³	15.86 ¹⁴	35.19 ⁸⁶	26.37 ¹⁰	54.82 ²¹	61.90 ⁹
Febr. 1	17.33 ²²	15.72 ¹³	34.33 ⁸⁶	26.27 ⁹	54.61 ²¹	61.99 ¹¹
2	17.11 ²³	15.59 ¹²	33.47 ⁸⁷	26.18 ⁸	54.40 ²⁰	62.10 ¹¹
3	16.88 ²⁵	15.47 ¹¹	32.60 ⁹⁰	26.10 ⁷	54.20 ²¹	62.21 ¹²
4	16.63 ²⁵	15.36 ¹²	31.70 ⁹⁶	26.03 ⁸	53.99 ²²	62.33 ¹⁴
5	16.38 ²⁷	15.24 ¹³	30.74 ¹⁰⁰	25.95 ⁸	53.77 ²⁴	62.47 ¹³
6	16.11 ²⁸	15.11 ¹⁴	29.74 ¹⁰⁴	25.87 ⁹	53.53 ²⁵	62.60 ¹⁴
7	15.83	14.97	28.70	25.78	53.28	62.74
O. C.	+ 0°.29 cos φ		+ 1°.01 cos φ		+ 0°.26 cos φ	
U. C.	- 0°.29 cos φ		- 1°.01 cos φ		- 0°.26 cos φ	

Obere Culmination.

1902	43 Rev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .4.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	0 ^h 55 ^m	+85° 44'	1 ^h 23 ^m	+88° 47'	4 ^h 5 ^m	+85° 18'
Febr. 7	15.83	14.97	28.70	25.78	53.28	2.74
8	15.56 ²⁷	14.81 ¹⁶	27.65 ¹⁰⁵	25.66 ¹²	53.02 ²⁶	2.86 ¹²
9	15.28 ²⁸	14.62 ¹⁹	26.61 ¹⁰⁴	25.52 ¹⁴	52.75 ²⁷	2.97 ¹¹
10	15.02 ²⁶	14.43 ¹⁹	25.60 ¹⁰¹	25.36 ¹⁶	52.48 ²⁷	3.05 ⁸
11	14.78 ²⁴	14.22 ²¹	24.64 ⁹⁶	25.19 ¹⁷	52.21 ²⁷	3.11 ⁶
12	14.55 ²³	14.00 ²²	23.75 ⁸⁹	25.01 ¹⁸	51.95 ²⁶	3.15 ⁴
13	14.34 ²¹	13.78 ²²	22.93 ⁸²	24.82 ¹⁹	51.70 ²⁵	3.17 ²
14	14.15 ¹⁹	13.57 ²¹	22.17 ⁷⁶	24.64 ¹⁸	51.46 ²⁴	3.19 ²
15	13.96 ¹⁹	13.36 ²¹	21.44 ⁷³	24.48 ¹⁶	51.23 ²³	3.21 ²
16	13.78 ¹⁸	13.17 ¹⁹	20.71 ⁷³	24.32 ¹⁶	51.01 ²²	3.23 ²
17	13.59 ¹⁹	12.99 ¹⁸	20.07 ⁷⁵	24.17 ¹⁵	50.79 ²²	3.27 ⁴
18	13.39 ²⁰	12.81 ¹⁸	19.96 ⁷⁸	24.17 ¹⁴	50.57 ²²	3.27 ⁵
19	13.39 ²²	12.81 ¹⁸	19.18 ⁸³	24.03 ¹⁵	50.57 ²⁴	3.32 ⁶
20	13.17 ²²	12.63 ¹⁹	18.35 ⁸⁸	23.88 ¹⁶	50.33 ²⁵	3.38 ⁶
21	12.95 ²³	12.44 ²¹	17.47 ⁹¹	23.72 ¹⁸	50.08 ²⁷	3.44 ⁵
22	12.72 ²³	12.23 ²³	16.56 ⁹¹	23.54 ¹⁹	49.81 ²⁷	3.49 ³
23	12.49 ²²	12.00 ²⁵	15.65 ⁸⁹	23.35 ²²	49.54 ²⁹	3.52 ¹
24	12.27 ²¹	11.75 ²⁸	14.76 ⁸⁴	23.13 ²⁴	49.25 ²⁹	3.53 ²
25	12.06 ¹⁸	11.47 ²⁹	13.92 ⁷⁸	22.89 ²⁶	48.96 ²⁸	3.51 ³
26	11.88 ¹⁷	11.18 ²⁹	13.14 ⁷²	22.63 ²⁶	48.68 ²⁷	3.48 ⁶
27	11.71 ¹⁵	10.89 ²⁹	12.42 ⁶⁵	22.37 ²⁷	48.41 ²⁶	3.42 ⁷
28	11.56 ¹⁴	10.60 ²⁸	11.77 ⁵⁹	22.10 ²⁵	48.15 ²⁵	3.35 ⁸
März 1	11.42 ¹⁴	10.32 ²⁷	11.18 ⁵⁷	21.85 ²⁵	47.90 ²⁴	3.27 ⁷
2	11.28 ¹³	10.05 ²⁵	10.61 ⁵⁷	21.60 ²³	47.66 ²³	3.20 ⁶
3	11.15 ¹⁴	9.80 ²⁵	10.04 ⁵⁸	21.37 ²³	47.43 ²³	3.14 ⁴
4	11.01 ¹⁴	9.55 ²⁴	9.46 ⁶²	21.14 ²²	47.20 ²³	3.10 ⁴
5	10.87 ¹⁶	9.31 ²⁵	8.84 ⁶⁷	20.92 ²²	46.97 ²⁴	3.06 ³
6	10.71 ¹⁷	9.06 ²⁶	8.17 ⁶⁹	20.70 ²³	46.73 ²⁵	3.03 ³
7	10.54 ¹⁶	8.80 ²⁷	7.48 ⁷¹	20.47 ²⁴	46.48 ²⁷	3.00 ⁵
8	10.38 ¹⁷	8.53 ²⁹	6.77 ⁷¹	20.23 ²⁶	46.21 ²⁸	2.95 ⁶
9	10.21 ¹⁵	8.24 ³¹	6.06 ⁶⁸	19.97 ²⁸	45.93 ²⁸	2.89 ⁸
10	10.06 ¹⁴	7.93 ³²	5.38 ⁶²	19.69 ³⁰	45.65 ²⁷	2.81 ¹⁰
11	9.92 ¹¹	7.61 ³³	4.76 ⁵⁴	19.39 ³¹	45.38 ²⁶	2.71 ¹²
12	9.81 ¹⁰	7.28 ³²	4.22 ⁴⁶	19.08 ³¹	45.12 ²⁶	2.59 ¹⁴
13	9.71 ⁸	6.96 ³²	3.76 ³⁹	18.77 ³¹	44.86 ²³	2.45 ¹⁵
14	9.63 ⁶	6.64 ³¹	3.37 ³⁵	18.46 ²⁹	44.63 ²²	2.30 ¹⁵
15	9.57 ⁷	6.33 ²⁹	3.02 ³²	18.17 ²⁸	44.41 ²⁰	2.15 ¹⁴
16	9.50 ⁶	6.04 ²⁷	2.70 ³³	17.89 ²⁶	44.21 ²⁰	2.01 ¹³
	9.44	5.77	2.37	17.63	44.01	1.88
O. C.	+ 0°.29 cos φ		+ 1°.01 cos φ		+ 0°.26 cos φ	
U. C.	- 0°.29 cos φ		- 1°.01 cos φ		- 0°.26 cos φ	

Obere Culmination.

1902	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .4.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	0 ^h 55 ^m	+85° 43'	1 ^h 22 ^m	+88° 47'	4 ^h 5 ^m	+85° 17'
März 16	9.44 ⁸ 6	65.77 ²⁷	62.37 ³⁶	17.63 ²⁶	44.01 ²⁰	61.88 ¹²
17	9.38 ⁸	65.50 ²⁷	62.01 ³⁶	17.37 ²⁶	43.81 ²⁰	61.76 ¹²
18	9.30 ⁹	65.23 ²⁷	61.62 ³⁹	17.12 ²⁵	43.60 ²¹	61.65 ¹¹
19	9.21 ⁹	64.96 ²⁷	61.19 ⁴³	16.86 ²⁶	43.60 ²²	61.54 ¹¹
20	9.11 ¹⁰	64.68 ²⁸	60.73 ⁴⁶	16.59 ²⁷	43.38 ²³	61.54 ¹¹
21	9.02 ⁹	64.38 ³⁰	60.27 ⁴⁶	16.30 ²⁹	43.15 ²⁴	61.43 ¹²
22	8.94 ⁸	64.06 ³²	60.27 ⁴⁵	16.30 ³¹	42.91 ²⁵	61.31 ¹³
23	8.86 ⁸	64.06 ³⁴	59.82 ⁴²	15.99 ³²	42.66 ²⁵	61.18 ¹⁷
24	8.86 ⁶	63.72 ³⁵	59.40 ⁴²	15.67 ³²	42.41 ²⁵	61.01 ¹⁹
25	8.80 ⁴	63.37 ³⁵	59.05 ³⁵	15.33 ³⁴	42.17 ²⁴	60.82 ²¹
26	8.76 ⁴	63.01 ³⁶	59.05 ²⁸	15.33 ³⁵	42.17 ²⁴	60.82 ²¹
27	8.74 ²	62.66 ³⁵	58.77 ²⁰	14.98 ³⁵	41.93 ²²	60.61 ²²
28	8.74 ⁰	62.66 ³⁵	58.57 ¹⁴	14.63 ³⁵	41.71 ²⁰	60.39 ²³
29	8.74 ¹	62.31 ³³	58.43 ¹⁰	14.29 ³⁴	41.51 ¹⁹	60.16 ²²
30	8.75 ¹	61.98 ³¹	58.33 ⁸	13.96 ³³	41.32 ¹⁷	59.94 ²¹
31	8.76 ²	61.67 ²⁹	58.25 ⁹	13.65 ³¹	41.32 ¹⁷	59.94 ²¹
April 1	8.78 ¹	61.38 ²⁹	58.16 ¹²	13.36 ²⁹	41.15 ¹⁸	59.73 ²⁰
2	8.79 ¹	61.09 ²⁸	58.04 ¹⁵	13.07 ²⁹	40.97 ¹⁶	59.53 ¹⁹
3	8.78 ²	60.81 ²⁹	57.89 ¹⁹	12.78 ²⁹	40.81 ¹⁸	59.34 ¹⁸
4	8.76 ²	60.52 ²⁹	57.70 ¹⁹	12.49 ²⁹	40.63 ¹⁸	59.16 ¹⁸
5	8.73 ³	60.22 ³⁰	57.49 ²¹	12.19 ³⁰	40.44 ¹⁹	58.98 ¹⁸
6	8.71 ²	59.90 ³²	57.28 ²¹	11.89 ³⁰	40.25 ¹⁹	58.80 ¹⁸
7	8.70 ¹	59.57 ³³	57.10 ¹⁸	11.56 ³³	40.05 ²⁰	58.61 ¹⁹
8	8.70 ⁰	59.22 ³⁵	57.10 ¹³	11.21 ³⁵	39.84 ²¹	58.40 ²¹
9	8.73 ³	58.88 ³⁴	56.97 ⁶	10.86 ³⁵	39.64 ²⁰	58.17 ²³
10	8.78 ⁵	58.53 ³⁵	56.91 ⁶	10.51 ³⁵	39.44 ²⁰	57.92 ²⁵
11	8.84 ⁶	58.19 ³⁴	56.93 ²	10.16 ³⁵	39.27 ¹⁷	57.65 ²⁷
12	8.92 ⁸	57.87 ³²	57.03 ¹⁰	9.82 ³⁵	39.11 ¹⁶	57.38 ²⁷
13	8.92 ⁹	57.87 ³⁰	57.03 ¹⁵	9.51 ³⁴	38.97 ¹⁴	57.09 ²⁹
14	9.01 ⁹	57.57 ²⁸	57.18 ¹⁹	9.21 ³¹	38.85 ¹²	56.82 ²⁷
15	9.10 ⁹	57.29 ²⁷	57.37 ²⁰	8.93 ³⁰	38.73 ¹²	56.82 ²⁶
16	9.19 ⁹	57.02 ²⁷	57.57 ¹⁹	8.66 ²⁸	38.61 ¹²	56.56 ²⁵
17	9.27 ⁸	56.76 ²⁶	57.76 ¹⁶	8.38 ²⁸	38.50 ¹¹	56.31 ²³
18	9.27 ⁷	56.76 ²⁶	57.92 ¹¹	8.10 ²⁹	38.38 ¹²	56.08 ²³
19	9.34 ⁶	56.50 ²⁷	58.03 ⁷	7.81 ²⁹	38.38 ¹³	55.85 ²³
20	9.40 ⁵	56.23 ²⁹	58.10 ⁶	7.51 ³⁰	38.25 ¹⁴	55.62 ²³
21	9.45 ⁶	55.94 ³⁰	58.16 ⁶	7.21 ³⁰	38.11 ¹⁴	55.40 ²²
22	9.51 ⁶	55.64 ³²	58.22 ⁶	6.93 ³³	38.11 ¹⁵	55.16 ²⁴
23	9.51 ⁷	55.64 ³²	58.22 ⁹	6.66 ³³	37.96 ¹⁵	54.90 ²⁶
24	9.58 ⁸	55.32 ³²	58.31 ¹⁵	6.38 ³⁴	37.81 ¹⁵	54.62 ²⁸
25	9.66 ¹⁰	55.00 ³³	58.46 ²²	6.10 ³⁵	37.81 ¹⁴	54.62 ²⁸
26	9.76 ¹⁰	54.67 ³³	58.68 ²²	5.82 ³⁵	37.67 ¹⁴	54.62 ²⁸
O. C.	+ 0°.29 cos φ		+ 1°.01 cos φ		+ 0°.26 cos φ	
U. C.	- 0°.29 cos φ		- 1°.01 cos φ		- 0°.26 cos φ	

Obere Culmination.

1902	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .4.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	0 ^h 55 ^m	+85° 43'	1 ^h 22 ^m	+88° 46'	4 ^h 5 ^m	+85° 17'
April 20	9.76 ¹³	54.67 ³³	58.68 ³⁰	66.49 ³⁴	37.67 ¹³	54.62 ³⁰
21	9.89 ¹⁵	54.34 ³¹	58.98 ³⁶	66.15 ³³	37.54 ¹²	54.32 ³²
22	10.04 ¹⁵	54.03 ²⁹	59.34 ⁴¹	65.82 ³²	37.42 ¹⁰	54.00 ³²
23	10.19 ¹⁵	53.74 ²⁸	59.75 ⁴⁴	65.50 ³⁰	37.32 ⁸	53.68 ³²
24	10.34 ¹⁶	53.46 ²⁷	60.19 ⁴⁴	65.20 ²⁸	37.24 ⁷	53.36 ³¹
25	10.50 ¹⁵	53.19 ²⁵	60.63 ⁴²	64.92 ²⁸	37.17 ⁷	53.05 ³⁰
26	10.65 ¹⁴	52.94 ²⁴	61.05 ³⁸	64.64 ²⁶	37.10 ⁵	52.75 ²⁸
27	10.79 ¹⁴	52.70 ²⁴	61.43 ³⁴	64.38 ²⁶	37.05 ⁶	52.47 ²⁷
28	10.93 ¹²	52.46 ²⁴	61.77 ³¹	64.12 ²⁶	36.99 ⁷	52.20 ²⁵
29	11.05 ¹²	52.22 ²⁵	62.08 ³⁰	63.86 ²⁷	36.92 ⁸	51.95 ²⁶
30	11.17 ¹³	51.97 ²⁷	62.38 ³¹	63.59 ²⁹	36.84 ⁷	51.69 ²⁶
Mai 1	11.30 ¹⁴	51.70 ²⁸	62.69 ³⁶	63.30 ³⁰	36.77 ⁹	51.43 ²⁸
2	11.44 ¹⁵	51.42 ²⁸	63.05 ⁴¹	63.00 ³¹	36.68 ⁸	51.15 ³⁰
3	11.59 ¹⁷	51.14 ²⁸	63.46 ⁴⁹	62.69 ³⁰	36.60 ⁸	50.85 ³¹
4	11.76 ²⁰	50.86 ²⁷	63.95 ⁵⁷	62.39 ³⁰	36.52 ⁶	50.54 ³³
5	11.96 ²¹	50.59 ²⁶	64.52 ⁶³	62.09 ²⁹	36.46 ⁴	50.21 ³³
6	12.17 ²²	50.33 ²³	65.15 ⁶⁶	61.80 ²⁷	36.42 ²	49.88 ³⁴
7	12.39 ²³	50.10 ²¹	65.81 ⁶⁸	61.53 ²⁵	36.40 ¹	49.54 ³³
8	12.62 ²²	49.89 ²⁰	66.49 ⁶⁸	61.28 ²³	36.39 ¹	49.21 ³¹
9	12.84 ²¹	49.69 ¹⁸	67.17 ⁶⁵	61.05 ²¹	36.40 ²	48.90 ³⁰
10	13.05 ²¹	49.51 ¹⁸	67.82 ⁶¹	60.84 ²¹	36.42 ¹	48.60 ²⁹
11	13.26 ¹⁹	49.33 ¹⁷	68.43 ⁵⁶	60.63 ²⁰	36.43 ¹	48.31 ²⁸
12	13.45 ¹⁸	49.16 ¹⁹	68.99 ⁵²	60.43 ²¹	36.44 ¹	48.03 ²⁶
13	13.63 ¹⁷	48.97 ²⁰	69.51 ⁵¹	60.22 ²³	36.45 ⁰	47.77 ²⁷
14	13.80 ¹⁹	48.77 ²²	70.02 ⁵⁴	59.99 ²⁴	36.45 ¹	47.50 ²⁷
15	13.99 ²⁰	48.55 ²²	70.56 ⁵⁸	59.75 ²⁵	36.44 ²	47.23 ²⁹
16	14.19 ²²	48.33 ²³	71.14 ⁶⁴	59.50 ²⁷	36.42 ¹	46.94 ³⁰
17	14.41 ²³	48.10 ²⁴	71.78 ⁷¹	59.23 ²⁶	36.41 ¹	46.64 ³³
18	14.64 ²⁵	47.86 ²²	72.49 ⁷⁸	58.97 ²⁵	36.40 ¹	46.31 ³⁴
19	14.89 ²⁷	47.64 ¹⁹	73.27 ⁸³	58.72 ²⁴	36.41 ²	45.97 ³⁴
20	15.16 ²⁸	47.45 ¹⁷	74.10 ⁸⁵	58.48 ²³	36.43 ⁴	45.63 ³⁴
21	15.44 ²⁷	47.28 ¹⁶	74.95 ⁸⁶	58.25 ²⁰	36.47 ⁶	45.29 ³³
22	15.71 ²⁶	47.12 ¹⁴	75.81 ⁸⁵	58.05 ¹⁸	36.53 ⁷	44.96 ³¹
23	15.97 ²⁵	46.98 ¹²	76.66 ⁸¹	57.87 ¹⁶	36.60 ⁷	44.65 ³⁰
24	16.22 ²⁴	46.86 ¹²	77.47 ⁷⁶	57.71 ¹⁶	36.67 ⁷	44.35 ²⁹
25	16.46 ²³	46.74 ¹³	78.23 ⁷²	57.55 ¹⁶	36.74 ⁷	44.06 ²⁷
26	16.69	46.61	78.95	57.39	36.81 ⁷	43.79 ²⁶
					36.88 ⁷	43.53
O. C.	+ 0°.29 cos φ		+ 1°.01 cos φ		+ 0°.26 cos φ	
U. C.	- 0.29 cos φ		- 1.01 cos φ		- 0.26 cos φ	

Obere Culmination.

1902	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .4.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	0 ^h 55 ^m	+85° 43'	1 ^h 23 ^m	+88° 46'	4 ^h 5 ^m	+85° 17'
Mai 26	16.69 ²²	46.61 ¹³	18.95 ⁶⁹	57.39 ¹⁷	36.88 ⁶	43.53 ²⁵
27	16.91 ²²	46.48 ¹⁴	19.64 ⁷⁰	57.22 ¹⁷	36.94 ⁵	43.28 ²⁷
28	17.13 ²³	46.34 ¹⁵	20.34 ⁷²	57.05 ¹⁹	36.99 ⁵	43.01 ²⁸
29	17.36 ²⁴	46.19 ¹⁵	21.06 ⁷⁶	56.86 ¹⁹	37.04 ⁵	42.73 ²⁹
30	17.60 ²⁷	46.04 ¹⁶	21.82 ⁸²	56.67 ²⁰	37.09 ⁷	42.44 ³¹
31	17.87 ²⁸	45.88 ¹⁴	22.64 ⁹⁰	56.47 ¹⁹	37.16 ⁸	42.13 ³²
Juni 1	18.15 ³⁰	45.74 ¹³	23.54 ⁹⁶	56.28 ¹⁸	37.24 ¹⁰	41.81 ³²
2	18.45 ³⁰	45.61 ¹²	24.50 ¹⁰⁰	56.10 ¹⁶	37.34 ¹²	41.49 ³³
3	18.75 ³²	45.49 ⁹	25.50 ¹⁰³	55.94 ¹⁴	37.46 ¹⁴	41.16 ³¹
4	19.07 ³¹	45.40 ⁸	26.53 ¹⁰²	55.80 ¹¹	37.60 ¹⁵	40.85 ²⁸
5	19.38 ³⁰	45.32 ⁵	27.55 ⁹⁹	55.69 ¹⁰	37.75 ¹⁵	40.57 ²⁶
6	19.68 ²⁸	45.27 ⁴	28.54 ⁹⁴	55.59 ⁹	37.90 ¹⁴	40.31 ²⁵
7	19.96 ²⁷	45.23 ⁴	29.48 ⁸⁹	55.50 ⁸	38.04 ¹⁴	40.06 ²³
8	20.23 ²⁶	45.19 ⁴	30.37 ⁸⁵	55.42 ⁹	38.18 ¹³	39.83 ²³
9	20.49 ²⁵	45.15 ⁵	31.22 ⁸²	55.33 ⁹	38.31 ¹¹	39.60 ²³
10	20.74 ²⁵	45.10 ⁶	32.04 ⁸³	55.24 ¹⁰	38.42 ¹²	39.37 ²⁵
11	20.99 ²⁶	45.04 ⁸	32.87 ⁸⁵	55.14 ¹¹	38.54 ¹¹	39.12 ²⁵
12	21.25 ²⁸	44.96 ⁹	33.72 ⁹⁰	55.03 ¹³	38.65 ¹²	38.87 ²⁷
13	21.53 ²⁹	44.87 ⁸	34.62 ⁹⁵	54.90 ¹³	38.77 ¹³	38.60 ²⁹
14	21.82 ³¹	44.79 ⁸	35.57 ¹⁰²	54.77 ¹³	38.90 ¹⁴	38.31 ²⁹
15	22.13 ³²	44.71 ⁶	36.59 ¹⁰⁷	54.64 ¹¹	39.04 ¹⁶	38.02 ²⁹
16	22.45 ³³	44.65 ⁴	37.66 ¹¹⁰	54.53 ⁹	39.20 ¹⁷	37.73 ²⁹
17	22.78 ³³	44.61 ²	38.76 ¹¹⁰	54.44 ⁷	39.37 ¹⁹	37.44 ²⁷
18	23.11 ³²	44.59 ⁰	39.86 ¹⁰⁹	54.37 ⁵	39.56 ²⁰	37.17 ²⁵
19	23.43 ³²	44.59 ²	40.95 ¹⁰⁶	54.32 ³	39.76 ²⁰	36.92 ²³
20	23.75 ²⁹	44.61 ³	42.01 ¹⁰¹	54.29 ²	39.96 ¹⁹	36.69 ²¹
21	24.04 ²⁸	44.64 ³	43.02 ⁹⁵	54.27 ²	40.15 ¹⁸	36.48 ¹⁹
22	24.32 ²⁷	44.67 ²	43.97 ⁹¹	54.25 ²	40.33 ¹⁷	36.29 ²⁰
23	24.59 ²⁷	44.69 ¹	44.88 ⁸⁹	54.23 ³	40.50 ¹⁷	36.09 ¹⁹
24	24.86 ²⁶	44.70 ⁰	45.77 ⁹⁰	54.20 ⁴	40.67 ¹⁶	35.90 ²⁰
25	25.12 ²⁸	44.70 ⁰	46.67 ⁹³	54.16 ⁵	40.83 ¹⁷	35.70 ²²
26	25.40 ²⁹	44.70 ¹	47.60 ⁹⁸	54.11 ⁵	41.00 ¹⁸	35.48 ²³
27	25.69 ³⁰	44.69 ⁰	48.58 ¹⁰⁴	54.06 ⁵	41.18 ¹⁸	35.25 ²⁴
28	25.99 ³²	44.69 ¹	49.62 ¹¹⁰	54.01 ⁴	41.36 ²⁰	35.01 ²⁵
29	26.31 ³⁴	44.70 ⁴	50.72 ¹¹⁵	53.97 ²	41.56 ²²	34.76 ²⁴
30	26.65 ³⁴	44.74 ⁵	51.87 ¹¹⁷	53.95 ⁰	41.78 ²⁴	34.52 ²²
Juli 1	26.99 ³⁴	44.79 ⁷	53.04 ¹¹⁷	53.95 ²	42.02 ²⁵	34.30 ²¹
2	27.33	44.86	54.21	53.97	42.27	34.09
O. C.	+ 0°.29 cos φ		+ 1°.01 cos φ		+ 0°.26 cos φ	
U. C.	- 0.29 cos φ		- 1.01 cos φ		- 0.26 cos φ	

Obere Culmination.

1902	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .4.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	0 ^h 55 ^m	+85° 43'	1 ^h 23 ^m	+88° 46'	4 ^h 5 ^m	+85° 17'
Juli 2	27.33 ³²	44.86 ⁹	54.21 ¹¹⁴	53.97 ⁴	42.27 ²⁶	34.09 ¹⁹
3	27.65 ³¹	44.95 ¹²	55.35 ¹¹⁰	54.01 ⁶	42.53 ²⁴	33.90 ¹⁷
4	27.96 ²⁹	45.07 ¹¹	56.45 ¹⁰⁴	54.07 ⁶	42.77 ²⁵	33.73 ¹⁵
5	28.25 ²⁸	45.18 ¹¹	57.49 ⁹⁸	54.13 ⁷	43.02 ²⁴	33.58 ¹⁴
6	28.53 ²⁷	45.29 ¹⁰	58.47 ⁹³	54.20 ⁷	43.26 ²²	33.44 ¹⁴
7	28.80 ²⁷	45.39 ⁹	59.40 ⁹²	54.27 ⁵	43.48 ²²	33.30 ¹⁵
8	29.07 ²⁶	45.48 ⁸	60.32 ⁹⁴	54.32 ³	43.70 ²⁰	33.15 ¹⁶
9	29.33 ²⁸	45.56 ⁷	61.26 ⁹⁷	54.35 ³	43.90 ²¹	32.99 ¹⁷
10	29.61 ³⁰	45.63 ⁶	62.23 ¹⁰¹	54.38 ¹	44.11 ²²	32.82 ¹⁸
11	29.91 ³⁰	45.69 ⁷	63.24 ¹⁰⁶	54.39 ²	44.33 ²³	32.64 ¹⁹
12	30.21 ³²	45.76 ⁹	64.30 ¹¹¹	54.41 ⁴	44.56 ²⁵	32.45 ¹⁹
13	30.53 ³²	45.85 ¹⁰	65.41 ¹¹⁵	54.45 ⁵	44.81 ²⁶	32.26 ¹⁹
14	30.85 ³⁴	45.95 ¹³	66.56 ¹¹⁷	54.50 ⁷	45.07 ²⁷	32.07 ¹⁷
15	31.19 ³²	46.08 ¹⁴	67.73 ¹¹⁵	54.57 ¹⁰	45.34 ²⁸	31.90 ¹⁵
16	31.51 ³⁰	46.22 ¹⁶	68.88 ¹¹¹	54.67 ¹¹	45.62 ²⁹	31.75 ¹⁴
17	31.81 ³⁰	46.38 ¹⁷	69.99 ¹⁰⁶	54.78 ¹²	45.91 ²⁸	31.61 ¹¹
18	32.11 ²⁷	46.55 ¹⁸	71.05 ⁹⁹	54.90 ¹³	46.19 ²⁷	31.50 ¹⁰
19	32.38 ²⁵	46.73 ¹⁷	72.04 ⁹⁴	55.03 ¹³	46.46 ²⁶	31.40 ⁸
20	32.63 ²⁵	46.90 ¹⁶	72.98 ⁹¹	55.16 ¹³	46.72 ²⁴	31.32 ⁹
21	32.88 ²⁵	47.06 ¹⁵	73.89 ⁹⁰	55.29 ¹¹	46.96 ²⁴	31.23 ⁸
22	33.13 ²⁵	47.21 ¹⁵	74.79 ⁹¹	55.40 ¹⁰	47.20 ²⁴	31.15 ¹¹
23	33.38 ²⁷	47.36 ¹⁴	75.70 ⁹⁵	55.50 ⁹	47.44 ²⁵	31.04 ¹¹
24	33.65 ²⁸	47.50 ¹³	76.65 ¹⁰⁰	55.59 ¹⁰	47.69 ²⁵	30.93 ¹²
25	33.93 ²⁹	47.63 ¹⁵	77.65 ¹⁰⁶	55.69 ¹⁰	47.94 ²⁷	30.81 ¹⁴
26	34.22 ³¹	47.78 ¹⁷	78.71 ¹¹⁰	55.79 ¹²	48.21 ²⁹	30.67 ¹²
27	34.53 ³¹	47.95 ¹⁹	79.81 ¹¹³	55.91 ¹⁴	48.50 ³⁰	30.55 ¹²
28	34.84 ³¹	48.14 ²⁰	80.94 ¹¹³	56.05 ¹⁶	48.80 ³¹	30.43 ¹⁰
29	35.15 ³⁰	48.34 ²³	82.07 ¹¹¹	56.21 ¹⁷	49.11 ³²	30.33 ⁸
30	35.45 ²⁹	48.57 ²⁴	83.18 ¹⁰⁶	56.38 ²⁰	49.43 ³¹	30.25 ⁶
31	35.74 ²⁶	48.81 ²⁵	84.24 ¹⁰⁰	56.58 ²¹	49.74 ³¹	30.19 ⁴
Aug. 1	36.00 ²⁵	49.06 ²⁶	85.24 ⁹⁴	56.79 ²¹	50.05 ³⁰	30.15 ²
2	36.25 ²³	49.32 ²⁴	86.18 ⁸⁸	57.00 ²⁰	50.35 ²⁹	30.13 ²
3	36.48 ²³	49.56 ²⁴	87.06 ⁸⁵	57.20 ¹⁹	50.64 ²⁷	30.11 ²
4	36.71 ²²	49.80 ²²	87.91 ⁸⁴	57.39 ¹⁹	50.91 ²⁶	30.09 ³
5	36.93 ²³	50.02 ²⁰	88.75 ⁸⁵	57.58 ¹⁷	51.17 ²⁶	30.06 ⁴
6	37.16 ²⁴	50.22 ²⁰	89.60 ⁸⁹	57.75 ¹⁶	51.43 ²⁷	30.02 ⁵
7	37.40 ²⁵	50.42 ²⁰	90.49 ⁹⁴	57.91 ¹⁶	51.70 ²⁸	29.97 ⁶
8	37.65	50.62	91.43	58.07	51.98	29.91
O. C.	+ 0°.29 cos φ		+ 1°.01 cos φ		+ 0°.26 cos φ	
U. C.	- 0.29 cos φ		- 1.01 cos φ		- 0.26 cos φ	

Obere Culmination.

1902	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .4.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	0 ^h 55 ^m	+85° 43'	1 ^h 24 ^m	+88° 46'	4 ^h 5 ^m	+85° 17'
Aug. 8	37.65 ²⁷	50.62 ²⁰	31.43 ⁹⁹	58.07 ¹⁷	51.98 ²⁹	29.91 ⁷
9	37.92 ²⁸	50.82 ²³	32.42 ¹⁰³	58.24 ¹⁸	52.27 ³⁰	29.84 ⁷
10	38.20 ²⁸	51.05 ²⁴	33.45 ¹⁰⁴	58.42 ¹⁹	52.57 ³²	29.77 ⁵
11	38.48 ²⁷	51.29 ²⁶	34.49 ¹⁰³	58.61 ²¹	52.89 ³²	29.72 ⁴
12	38.75 ²⁵	51.55 ²⁸	35.52 ⁹⁹	58.82 ²⁴	53.21 ³³	29.68 ¹
13	39.00 ²⁴	51.83 ²⁹	36.51 ⁹⁴	59.06 ²⁶	53.54 ³²	29.67 [—]
14	39.24 ²³	52.12 ³⁰	37.45 ⁸⁷	59.32 ²⁶	53.86 ³¹	29.68 ³
15	39.47 ²¹	52.42 ²⁹	38.32 ⁸¹	59.58 ²⁶	54.17 ³⁰	29.71 ⁴
16	39.68 ¹⁹	52.71 ²⁹	39.13 ⁷⁶	59.84 ²⁵	54.47 ²⁹	29.75 ⁴
17	39.87 ¹⁹	53.00 ²⁸	39.89 ⁷⁴	60.09 ²⁵	54.76 ²⁸	29.79 ⁴
18	40.06 ¹⁸	53.28 ²⁶	40.63 ⁷⁴	60.34 ²³	55.04 ²⁷	29.83 ³
19	40.24 ²⁰	53.54 ²⁵	41.37 ⁷⁶	60.57 ²²	55.31 ²⁷	29.86 ²
20	40.44 ²¹	53.79 ²⁵	42.13 ⁸⁰	60.79 ²²	55.58 ²⁸	29.88 ¹
21	40.65 ²²	54.04 ²⁶	42.93 ⁸⁵	61.01 ²²	55.86 ²⁹	29.89 ⁰
22	40.87 ²³	54.30 ²⁸	43.78 ⁹⁰	61.23 ²⁴	56.15 ³¹	29.89 ⁰
23	41.10 ²⁴	54.58 ²⁹	44.68 ⁹³	61.47 ²⁵	56.46 ³²	29.89 ¹
24	41.34 ²⁴	54.87 ³⁰	45.61 ⁹⁴	61.72 ²⁷	56.78 ³³	29.90 ²
25	41.58 ²³	55.17 ³²	46.55 ⁹²	61.99 ²⁹	57.11 ³⁴	29.92 ⁴
26	41.81 ²¹	55.49 ³⁵	47.47 ⁸⁷	62.28 ³¹	57.45 ³³	29.96 ⁶
27	42.02 ²⁰	55.84 ³⁵	48.34 ⁸⁰	62.59 ³²	57.78 ³³	30.02 ⁹
28	42.22 ¹⁸	56.19 ³⁵	49.14 ⁷⁵	62.91 ³²	58.11 ³²	30.11 ⁹
29	42.40 ¹⁶	56.54 ³⁵	49.89 ⁶⁸	63.23 ³³	58.43 ³¹	30.20 ¹¹
30	42.56 ¹⁵	56.89 ³⁴	50.57 ⁶³	63.56 ³¹	58.74 ²⁹	30.31 ¹²
31	42.71 ¹⁵	57.23 ³²	51.20 ⁶¹	63.87 ²⁹	59.03 ²⁷	30.43 ¹¹
Sept. 1	42.86 ¹³	57.55 ³¹	51.81 ⁶¹	64.16 ²⁹	59.30 ²⁸	30.54 ¹⁰
2	42.99 ¹⁵	57.86 ³⁰	52.42 ⁶³	64.45 ²⁷	59.58 ²⁸	30.64 ⁸
3	43.14 ¹⁷	58.16 ²⁹	53.05 ⁶⁷	64.72 ²⁶	59.86 ²⁷	30.72 ⁷
4	43.31 ¹⁷	58.45 ³⁰	53.72 ⁷²	64.98 ²⁷	60.13 ²⁹	30.79 ⁶
5	43.48 ¹⁹	58.75 ³¹	54.44 ⁷⁶	65.25 ²⁸	60.42 ³⁰	30.85 ⁶
6	43.67 ¹⁹	59.06 ³²	55.20 ⁷⁸	65.53 ²⁹	60.72 ³¹	30.91 ⁷
7	43.86 ¹⁸	59.38 ³⁴	55.98 ⁷⁷	65.82 ³²	61.03 ³²	30.98 ⁸
8	44.04 ¹⁸	59.72 ³⁶	56.75 ⁷³	66.14 ³²	61.35 ³²	31.06 ¹⁰
9	44.22 ¹⁶	60.08 ³⁸	57.48 ⁶⁹	66.46 ³⁴	61.67 ³¹	31.16 ¹³
10	44.38 ¹⁴	60.46 ³⁷	58.17 ⁶³	66.80 ³⁶	61.98 ³²	31.29 ¹⁵
11	44.52 ¹²	60.83 ³⁷	58.80 ⁵⁵	67.16 ³⁶	62.30 ³⁰	31.44 ¹⁶
12	44.64 ¹⁰	61.20 ³⁷	59.35 ⁴⁹	67.52 ³⁵	62.60 ²⁹	31.60 ¹⁷
13	44.74 ⁹	61.57 ³⁶	59.84 ⁴⁵	67.87 ³⁴	62.89 ²⁷	31.77 ¹⁷
14	44.83	61.93	60.29	68.21	63.16	31.94
O. C.	+ 0°.29 cos φ		+ 1°.01 cos φ		+ 0°.26 cos φ	
U. C.	— 0°.29 cos φ		— 1°.01 cos φ		— 0°.26 cos φ	

Obere Culmination.

1902	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .4.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	0 ^h 55 ^m	+85° 44'	1 ^h 25 ^m	+88° 47'	4 ^h 6 ^m	+85° 17'
Sept. 14	44.83 ₁₀	1.93 ₃₅	0.29 ₄₄	8.21 ₃₃	3.16 ₂₆	31.94 ₁₆
15	44.93 ₉	2.28 ₃₃	0.73 ₄₅	8.54 ₃₂	3.42 ₂₆	32.10 ₁₅
16	45.02 ₁₁	2.61 ₃₃	1.18 ₄₈	8.86 ₃₁	3.68 ₂₆	32.25 ₁₄
17	45.13 ₁₁	2.94 ₃₂	1.66 ₅₂	9.17 ₃₀	3.94 ₂₇	32.39 ₁₃
18	45.24 ₁₃	3.26 ₃₃	2.18 ₅₇	9.47 ₃₁	4.21 ₂₈	32.52 ₁₃
19	45.37 ₁₄	3.59 ₃₅	2.75 ₆₀	9.78 ₃₃	4.49 ₂₉	32.65 ₁₂
20	45.51 ₁₃	3.94 ₃₆	3.35 ₆₂	10.11 ₃₅	4.78 ₃₀	32.77 ₁₄
21	45.64 ₁₄	4.30 ₃₈	3.97 ₆₀	10.46 ₃₆	5.08 ₃₁	32.91 ₁₅
22	45.78 ₁₂	4.68 ₄₀	4.57 ₅₆	10.82 ₃₇	5.39 ₃₂	33.06 ₁₇
23	45.90 ₁₀	5.08 ₄₁	5.13 ₅₁	11.19 ₃₉	5.71 ₃₁	33.23 ₂₀
24	46.00 ₈	5.49 ₄₂	5.64 ₄₄	11.58 ₄₀	6.02 ₃₀	33.43 ₂₂
25	46.08 ₆	5.91 ₄₁	6.08 ₄₆	11.98 ₄₀	6.32 ₂₈	33.65 ₂₃
26	46.14 ₅	6.32 ₃₉	6.44 ₃₀	12.38 ₃₉	6.60 ₂₆	33.88 ₂₃
27	46.19 ₃	6.71 ₃₇	6.74 ₂₇	12.77 ₃₇	6.86 ₂₅	34.11 ₂₃
28	46.22 ₄	7.08 ₃₆	7.01 ₂₆	13.14 ₃₆	7.11 ₂₅	34.34 ₂₂
29	46.26 ₄	7.44 ₃₅	7.27 ₂₇	13.50 ₃₅	7.36 ₂₃	34.56 ₂₁
30	46.30 ₅	7.79 ₃₃	7.54 ₃₀	13.85 ₃₃	7.59 ₂₄	34.77 ₁₉
Oct. 1	46.35 ₆	8.12 ₃₄	7.84 ₃₄	14.18 ₃₂	7.83 ₂₄	34.96 ₁₇
2	46.41 ₇	8.46 ₃₄	8.18 ₃₇	14.50 ₃₃	8.07 ₂₆	35.13 ₁₇
3	46.48 ₈	8.80 ₃₆	8.55 ₄₀	14.83 ₃₄	8.33 ₂₆	35.30 ₁₉
4	46.56 ₇	9.16 ₃₆	8.95 ₄₁	15.17 ₃₆	8.59 ₂₈	35.49 ₁₉
5	46.63 ₇	9.52 ₃₉	9.36 ₃₈	15.53 ₃₉	8.87 ₂₇	35.68 ₂₁
6	46.70 ₅	9.91 ₄₁	9.74 ₃₃	15.92 ₃₉	9.14 ₂₈	35.89 ₂₃
7	46.75 ₄	10.32 ₄₁	10.07 ₂₇	16.31 ₄₀	9.42 ₂₇	36.12 ₂₅
8	46.79 ₁	10.73 ₄₀	10.34 ₁₉	16.71 ₄₁	9.69 ₂₅	36.37 ₂₇
9	46.80 ₁	11.13 ₄₀	10.53 ₁₃	17.12 ₄₀	9.94 ₂₃	36.64 ₂₇
10	46.79 ₂	11.53 ₃₈	10.66 ₇	17.52 ₃₉	10.17 ₂₃	36.91 ₂₈
11	46.77 ₂	11.91 ₃₇	10.73 ₅	17.91 ₃₇	10.40 ₂₁	37.19 ₂₇
12	46.75 ₂	12.28 ₃₆	10.78 ₅	18.28 ₃₆	10.61 ₂₀	37.46 ₂₆
13	46.73 ₂	12.64 ₃₄	10.83 ₇	18.64 ₃₄	10.81 ₂₀	37.72 ₂₅
14	46.71 ₀	12.98 ₃₄	10.90 ₁₀	18.98 ₃₅	11.01 ₂₁	37.97 ₂₄
15	46.71 ₀	13.32 ₃₄	11.00 ₁₄	19.33 ₃₄	11.22 ₂₁	38.21 ₂₃
16	46.71 ₁	13.66 ₃₅	11.14 ₁₈	19.67 ₃₅	11.43 ₂₂	38.44 ₂₂
17	46.72 ₂	14.01 ₃₆	11.32 ₂₁	20.02 ₃₆	11.65 ₂₄	38.66 ₂₄
18	46.74 ₂	14.37 ₃₈	11.53 ₂₀	20.38 ₃₇	11.89 ₂₅	38.90 ₂₅
19	46.76 ₁	14.75 ₄₀	11.73 ₁₇	20.75 ₄₀	12.14 ₂₄	39.15 ₂₆
20	46.77 ₁	15.15 ₄₁	11.90 ₁₁	21.15 ₄₁	12.38 ₂₄	39.41 ₂₉
21	46.76	15.56	12.01	21.56	12.62	39.70
O. C.	+ 0°.29 cos φ		+ 1°.01 cos φ		+ 0°.26 cos φ	
U. C.	- 0.29 cos φ		- 1.01 cos φ		- 0.26 cos φ	

Obere Culmination.

1902	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .4.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	0 ^h 55 ^m	+85° 44'	1 ^h 25 ^m	+88° 47'	4 ^h 6 ^m	+85° 17'
Oct. 21	46.76	15.56	12.01	21.56	12.62	39.70
22	46.72	15.97	12.06	21.99	12.85	40.01
23	46.67	16.38	12.03	22.40	13.06	40.33
24	46.60	16.77	11.93	22.81	13.26	40.66
25	46.52	17.15	11.78	23.20	13.45	40.99
26	46.43	17.51	11.61	23.57	13.62	41.30
27	46.34	17.85	11.45	23.94	13.78	41.60
28	46.27	18.17	11.31	24.28	13.93	41.89
29	46.21	18.50	11.20	24.61	14.09	42.15
30	46.15	18.82	11.12	24.94	14.26	42.41
31	46.11	19.15	11.08	25.28	14.43	42.67
Nov. 1	46.07	19.48	11.06	25.62	14.62	42.95
2	46.02	19.84	11.01	25.99	14.81	43.23
3	45.96	20.21	10.92	26.37	15.00	43.54
4	45.88	20.59	10.77	26.76	15.18	43.86
5	45.77	20.96	10.55	27.15	15.35	44.20
6	45.65	21.32	10.26	27.54	15.50	44.55
7	45.51	21.68	9.92	27.91	15.64	44.90
8	45.37	22.02	9.53	28.28	15.75	45.25
9	45.22	22.34	9.12	28.62	15.86	45.59
10	45.08	22.64	8.72	28.95	15.97	45.91
11	44.95	22.93	8.36	29.27	16.07	46.21
12	44.82	23.23	8.04	29.58	16.18	46.50
13	44.71	23.52	7.77	29.89	16.30	46.80
14	44.62	23.82	7.52	30.22	16.43	47.09
15	44.52	24.14	7.28	30.55	16.56	47.39
16	44.41	24.47	7.01	30.91	16.71	47.71
17	44.28	24.81	6.69	31.27	16.84	48.05
18	44.14	25.15	6.31	31.64	16.97	48.40
19	43.97	25.49	5.87	32.01	17.09	48.77
20	43.79	25.83	5.35	32.37	17.19	49.14
21	43.59	26.14	4.77	32.71	17.27	49.52
22	43.39	26.43	4.16	33.04	17.33	49.88
23	43.19	26.70	3.55	33.35	17.37	50.23
24	42.99	26.95	2.95	33.64	17.41	50.57
25	42.81	27.19	2.38	33.91	17.45	50.89
26	42.64	27.43	1.85	34.18	17.49	51.19
27	42.47	27.67	1.36	34.45	17.55	51.49
O. C.	+ 0°.29 cos φ		+ 1°.01 cos φ		+ 0°.26 cos φ	
U. C.	- 0.29 cos φ		- 1.01 cos φ		- 0.26 cos φ	

Obere Culmination.

1902	43 Hev. Cephei. 4 ^m .3.		α Ursae minoris. 2 ^m .0.		Gr. 750. 6 ^m .4.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	0 ^h 55 ^m	+85° 44'	1 ^h 24 ^m	+88° 47'	4 ^h 6 ^m	+85° 17'
Nov. 27	42.47 ¹⁶	27.67 ²⁵	61.36 ⁴⁷	34.45 ²⁸	17.55 ⁶	51.49 ³⁰
28	42.31 ¹⁵	27.92 ²⁶	60.89 ⁴⁷	34.73 ²⁸	17.61 ⁷	51.79 ³¹
29	42.16 ¹⁷	28.18 ²⁷	60.42 ⁵⁰	35.01 ³⁰	17.68 ⁷	52.10 ³²
30	41.99 ¹⁸	28.45 ²⁸	59.92 ⁵⁵	35.31 ³¹	17.75 ⁶	52.42 ³⁴
Dec. 1	41.81 ²⁰	28.73 ²⁶	59.37 ⁶³	35.62 ³¹	17.81 ⁵	52.76 ³⁶
2	41.61 ²²	28.99 ²⁷	58.74 ⁶⁹	35.93 ³¹	17.86 ⁴	53.12 ³⁸
3	41.39 ²⁴	29.26 ²⁶	58.05 ⁷⁵	36.24 ³⁰	17.90 ¹	53.50 ³⁷
4	41.15 ²⁶	29.52 ²⁴	57.30 ⁸⁰	36.54 ²⁸	17.91 ⁰	53.87 ³⁷
5	40.89 ²⁶	29.76 ²²	56.50 ⁸³	36.82 ²⁷	17.91 ¹	54.24 ³⁶
6	40.63 ²⁵	29.98 ²⁰	55.67 ⁸¹	37.09 ²⁴	17.90 ²	54.60 ³³
7	40.38 ²³	30.18 ¹⁸	54.86 ⁷⁹	37.33 ²²	17.88 ³	54.93 ³²
8	40.15 ²³	30.36 ¹⁷	54.07 ⁷⁵	37.55 ²¹	17.85 ³	55.25 ³¹
9	39.92 ²²	30.53 ¹⁷	53.32 ⁷⁰	37.76 ²²	17.82 ²	55.56 ²⁹
10	39.70 ²⁰	30.70 ¹⁸	52.62 ⁶⁷	37.98 ²¹	17.80 ¹	55.85 ³⁰
11	39.50 ²⁰	30.88 ¹⁹	51.95 ⁶⁵	38.19 ²²	17.79 ⁰	56.15 ²⁹
12	39.30 ²¹	31.07 ²⁰	51.30 ⁶⁵	38.41 ²⁴	17.79 ¹	56.44 ³¹
13	39.09 ²¹	31.27 ²¹	50.65 ⁶⁸	38.65 ²⁵	17.80 ⁰	56.75 ³³
14	38.88 ²³	31.48 ²²	49.97 ⁷³	38.90 ²⁶	17.80 ⁰	57.08 ³⁴
15	38.65 ²⁵	31.70 ²¹	49.24 ⁸⁰	39.16 ²⁵	17.80 ¹	57.42 ³⁶
16	38.40 ²⁷	31.91 ²¹	48.44 ⁸⁸	39.41 ²⁵	17.79 ³	57.78 ³⁶
17	38.13 ²⁸	32.12 ¹⁹	47.56 ⁹³	39.66 ²⁴	17.76 ⁵	58.14 ³⁶
18	37.85 ²⁹	32.31 ¹⁷	46.63 ⁹⁷	39.90 ²²	17.71 ⁷	58.50 ³⁴
19	37.56 ²⁹	32.48 ¹⁴	45.66 ⁹⁸	40.12 ¹⁹	17.64 ⁸	58.84 ³⁴
20	37.27 ²⁸	32.62 ¹²	44.68 ⁹⁷	40.31 ¹⁷	17.56 ⁹	59.18 ³²
21	36.99 ²⁷	32.74 ¹¹	43.71 ⁹⁴	40.48 ¹⁵	17.47 ⁹	59.50 ²⁹
22	36.72 ²⁶	32.85 ⁹	42.77 ⁸⁹	40.63 ¹⁴	17.38 ⁹	59.79 ²⁸
23	36.46 ²⁴	32.94 ⁹	41.88 ⁸⁴	40.77 ¹⁴	17.29 ⁹	60.07 ²⁷
24	36.22 ²⁴	33.03 ⁹	41.04 ⁸¹	40.91 ¹³	17.20 ⁸	60.34 ²⁶
25	35.98 ²³	33.12 ¹¹	40.23 ⁸⁰	41.04 ¹⁴	17.12 ⁷	60.60 ²⁷
26	35.75 ²⁴	33.23 ¹¹	39.43 ⁸¹	41.18 ¹⁶	17.05 ⁶	60.87 ²⁸
27	35.51 ²⁵	33.34 ¹²	38.62 ⁸⁴	41.34 ¹⁷	16.99 ⁶	61.15 ²⁹
28	35.26 ²⁷	33.46 ¹²	37.78 ⁹⁰	41.51 ¹⁶	16.93 ⁸	61.44 ³⁰
29	34.99 ²⁸	33.58 ¹²	36.88 ⁹⁷	41.67 ¹⁶	16.85 ¹⁰	61.74 ³²
30	34.71 ³⁰	33.70 ¹¹	35.91 ¹⁰³	41.83 ¹⁶	16.75 ¹¹	62.06 ³²
31	34.41 ³²	33.81 ⁸	34.88 ¹⁰⁸	41.99 ¹⁴	16.64 ¹³	62.38 ³¹
32	34.09	33.89	33.80	42.13	16.51	62.69

O. C. + 0^s.29 cos φ

U. C. - 0.29 cos φ

+ 1^s.02 cos φ

- 1.02 cos φ

+ 0^s.26 cos φ

- 0.26 cos φ

Bibl. Jag. Obere Culmination.

1902	51 Hev. Cephei. 5 ^m .I.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .3.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	6 ^h 55 ^m	+87° 12'	9 ^h 23 ^m	+81° 45'	16 ^h 55 ^m	+82° 11'
Jan. 1	16.53 6	0.80 31	15.28 11	14.05 20	48.14 6	53.37 30
2	16.59 6	1.11 29	15.39 11	14.25 18	48.20 6	53.07 30
3	16.65 6	1.40 29	15.50 10	14.43 18	48.26 6	52.77 29
4	16.71 7	1.69 27	15.60 11	14.61 17	48.32 6	52.48 29
5	16.78 8	1.96 28	15.71 12	14.78 18	48.38 6	52.19 30
6	16.86 10	2.24 29	15.83 12	14.96 18	48.44 5	51.89 33
7	16.96 10	2.53 31	15.95 13	15.14 19	48.49 7	51.56 34
8	17.06 9	2.84 33	16.08 12	15.33 21	48.56 7	51.22 34
9	17.15 8	3.17 34	16.20 13	15.54 24	48.63 8	50.88 35
10	17.23 6	3.51 36	16.33 12	15.78 25	48.71 10	50.53 34
11	17.29 4	3.87 35	16.45 11	16.03 27	48.81 11	50.19 33
12	17.33 1	4.22 36	16.56 10	16.30 27	48.92 10	49.86 31
13	17.34 3	4.58 35	16.66 9	16.57 27	49.02 11	49.55 28
14	17.31 5	4.93 32	16.75 9	16.84 26	49.13 10	49.27 27
15	17.26 6	5.25 31	16.84 8	17.10 25	49.23 10	49.00 26
16	17.20 6	5.56 29	16.92 7	17.35 24	49.33 10	48.74 25
17	17.14 5	5.85 27	16.99 8	17.59 22	49.43 9	48.49 24
18	17.09 4	6.12 27	17.07 8	17.81 22	49.52 8	48.25 24
19	17.05 2	6.39 27	17.15 9	18.03 21	49.60 9	48.01 26
20	17.03 1	6.66 29	17.24 9	18.24 23	49.69 9	47.75 28
21	17.02 2	6.95 30	17.33 9	18.47 25	49.78 10	47.47 29
22	17.00 3	7.25 32	17.42 9	18.72 26	49.88 10	47.18 29
23	16.97 4	7.57 34	17.51 9	18.98 28	49.98 12	46.89 29
24	16.93 7	7.91 34	17.60 8	19.26 31	50.10 13	46.60 29
25	16.86 10	8.25 35	17.68 7	19.57 31	50.23 14	46.31 26
26	16.76 13	8.60 34	17.75 5	19.88 31	50.37 14	46.05 24
27	16.63 16	8.94 32	17.80 5	20.19 31	50.51 14	45.81 22
28	16.47 19	9.26 31	17.85 5	20.50 30	50.65 15	45.59 20
29	16.28 20	9.57 28	17.90 3	20.80 29	50.80 13	45.39 18
30	16.08 19	9.85 27	17.93 3	21.09 28	50.93 13	45.21 18
31	15.89 18	10.12 26	17.96 4	21.37 27	51.06 13	45.03 18
Febr. 1	15.71 16	10.38 25	18.00 3	21.64 27	51.19 12	44.85 18
2	15.55 15	10.63 26	18.03 4	21.91 27	51.31 12	44.67 20
3	15.40 15	10.89 28	18.07 5	22.18 27	51.43 12	44.47 20
4	15.25 15	11.17 28	18.12 4	22.45 29	51.55 13	44.27 22
5	15.10 16	11.45 29	18.16 5	22.74 32	51.68 14	44.05 22
6	14.94 17	11.74 31	18.21 5	23.06 32	51.82 15	43.83 22
7	14.77	12.05	18.26	23.38	51.97	43.61
O. C.	+ 0°.44 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
U. C.	- 0.44 cos φ		- 0.15 cos φ		- 0.16 cos φ	

Obere Culmination.

1902	51 Hev. Cephei. 5 ^m .I.		I Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .3.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	6 ^h 55 ^m	+87° 12'	9 ^h 23 ^m	+81° 45'	16 ^h 55 ^m	+82° 11'
Febr. 7	14.77 ²⁰	12.05 ³¹	18.26 ⁴	23.38 ³⁴	51.97 ¹⁶	43.61 ²⁰
8	14.57 ²²	12.36 ³¹	18.30 ²	23.72 ³⁴	52.13 ¹⁶	43.41 ¹⁹
9	14.35 ²⁵	12.67 ³⁰	18.32 ²	24.06 ³⁴	52.29 ¹⁷	43.22 ¹⁶
10	14.10 ²⁸	12.97 ²⁷	18.34 ⁰	24.40 ³³	52.46 ¹⁷	43.06 ¹³
11	13.82 ²⁹	13.24 ²⁶	18.34 ⁰	24.73 ³²	52.63 ¹⁵	42.93 ¹²
12	13.53 ²⁹	13.50 ²⁴	18.34 ⁰	25.05 ²⁹	52.78 ¹⁵	42.81 ¹⁰
13	13.24 ²⁹	13.74 ²²	18.34 ¹	25.34 ²⁸	52.93 ¹⁵	42.71 ¹⁰
14	12.95 ²⁷	13.96 ²¹	18.33 ¹	25.62 ²⁷	53.08 ¹³	42.61 ¹⁰
15	12.68 ²⁶	14.17 ²⁰	18.32 ¹	25.89 ²⁶	53.21 ¹³	42.51 ¹¹
16	12.42 ²⁴	14.37 ²¹	18.31 ¹	26.15 ²⁷	53.34 ¹⁴	42.40 ¹²
17	12.18 ²³	14.58 ²³	18.32 ¹	26.42 ²⁸	53.48 ¹⁴	42.28 ¹³
18	11.95 ²⁴	14.81 ²³	18.33 ¹	26.70 ²⁹	53.62 ¹⁵	42.15 ¹⁴
19	11.71 ²⁵	15.04 ²⁵	18.34 ¹	26.99 ³²	53.77 ¹⁶	42.01 ¹⁴
20	11.46 ²⁷	15.29 ²⁵	18.35 ¹	27.31 ³²	53.93 ¹⁷	41.87 ¹²
21	11.19 ³⁰	15.54 ²⁵	18.36 ¹	27.63 ³³	54.10 ¹⁷	41.75 ¹¹
22	10.89 ³³	15.79 ²⁵	18.35 ²	27.96 ³⁵	54.27 ¹⁸	41.64 ⁹
23	10.56 ³⁶	16.04 ²⁴	18.33 ⁴	28.31 ³⁴	54.45 ¹⁷	41.55 ⁷
24	10.20 ³⁸	16.28 ²²	18.29 ⁵	28.65 ³²	54.62 ¹⁸	41.48 ⁴
25	9.82 ³⁹	16.50 ²⁰	18.24 ⁴	28.97 ³¹	54.80 ¹⁷	41.44 ⁵
26	9.43 ⁴⁰	16.70 ¹⁸	18.20 ⁵	29.28 ²⁹	54.97 ¹⁷	41.41 ¹
27	9.03 ³⁸	16.88 ¹⁶	18.15 ⁶	29.57 ²⁸	55.14 ¹⁶	41.40 ⁰
28	8.65 ³⁶	17.04 ¹⁵	18.09 ⁵	29.85 ²⁷	55.30 ¹⁵	41.40 ¹
März 1	8.29 ³⁴	17.19 ¹⁴	18.04 ⁴	30.12 ²⁷	55.45 ¹⁴	41.39 ²
2	7.95 ³³	17.33 ¹⁶	18.00 ⁴	30.39 ²⁶	55.59 ¹⁶	41.37 ³
3	7.62 ³²	17.49 ¹⁶	17.96 ⁴	30.65 ²⁷	55.75 ¹⁵	41.34 ³
4	7.30 ³³	17.65 ¹⁷	17.92 ³	30.92 ²⁹	55.90 ¹⁵	41.31 ⁴
5	6.97 ³⁴	17.82 ¹⁹	17.89 ⁴	31.21 ³¹	56.05 ¹⁷	41.27 ⁴
6	6.63 ³⁶	18.01 ¹⁹	17.85 ⁵	31.52 ³²	56.22 ¹⁷	41.23 ⁴
7	6.27 ³⁸	18.20 ¹⁸	17.80 ⁵	31.84 ³¹	56.39 ¹⁹	41.19 ¹
8	5.89 ⁴¹	18.38 ¹⁸	17.75 ⁶	32.15 ³²	56.58 ¹⁸	41.18 ¹
9	5.48 ⁴³	18.56 ¹⁶	17.69 ⁷	32.47 ³¹	56.76 ¹⁷	41.19 ³
10	5.05 ⁴⁴	18.72 ¹⁴	17.62 ⁸	32.78 ²⁹	56.93 ¹⁷	41.22 ⁶
11	4.61 ⁴⁴	18.86 ¹¹	17.54 ⁹	33.07 ²⁷	57.10 ¹⁷	41.28 ⁶
12	4.17 ⁴⁴	18.97 ⁹	17.45 ⁸	33.34 ²⁵	57.27 ¹⁶	41.34 ⁸
13	3.73 ⁴²	19.06 ⁷	17.37 ⁸	33.59 ²⁴	57.43 ¹⁵	41.42 ⁸
14	3.31 ⁴¹	19.13 ⁷	17.29 ⁹	33.83 ²²	57.58 ¹⁴	41.50 ⁸
15	2.90 ³⁸	19.20 ⁷	17.20 ⁷	34.05 ²²	57.72 ¹⁴	41.58 ⁶
16	2.52	19.27	17.13	34.27	57.86	41.64
O. C.	+ 0°.44 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
U. C.	- 0.44 cos φ		- 0.15 cos φ		- 0.16 cos φ	

Obere Culmination.

1902	51 Hev. Cephei. 5 ^m .I.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .3.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	6 ^h 54 ^m	+87° 12'	9 ^h 23 ^m	+81° 45'	16 ^h 55 ^m	+82° 11'
März 16	62.52	19.27	17.13	34.27	57.86	41.64
17	62.15 ³⁷	19.34 ⁷	17.06 ⁷	34.49 ²²	58.00 ¹⁴	41.70 ⁶
18	61.79 ³⁶	19.43 ⁹	16.99 ⁷	34.72 ²³	58.15 ¹⁵	41.75 ⁵
19	61.42 ³⁷	19.53 ¹⁰	16.92 ⁷	34.97 ²⁵	58.30 ¹⁵	41.79 ⁴
20	61.04 ³⁸	19.63 ¹⁰	16.85 ⁷	35.24 ²⁷	58.46 ¹⁶	41.83 ⁴
21	60.64 ⁴⁰	19.74 ¹¹	16.77 ⁸	35.51 ²⁷	58.62 ¹⁶	41.89 ⁶
22	60.22 ⁴²	19.85 ¹¹	16.69 ⁸	35.79 ²⁸	58.80 ¹⁸	41.89 ⁸
23	59.76 ⁴⁶	19.94 ⁹	16.69 ¹¹	35.79 ²⁶	58.80 ¹⁷	41.97 ¹¹
24	59.29 ⁴⁷	19.94 ⁷	16.58 ¹¹	36.05 ²⁶	58.97 ¹⁶	42.08 ¹³
25	58.81 ⁴⁸	20.01 ⁵	16.47 ¹²	36.31 ²⁵	59.13 ¹⁷	42.21 ¹⁵
26	58.32 ⁴⁹	20.06 ³	16.35 ¹¹	36.56 ²²	59.30 ¹⁵	42.36 ¹⁶
27	57.85 ⁴⁷	20.09 ¹	16.24 ¹²	36.78 ²⁰	59.45 ¹⁵	42.52 ¹⁷
28	57.40 ⁴⁵	20.10 ⁰	16.12 ¹²	36.98 ¹⁹	59.60 ¹⁴	42.69 ¹⁷
29	57.00 ⁴³	20.10 ¹	16.00 ¹¹	37.17 ¹⁸	59.74 ¹³	42.86 ¹⁶
30	56.56 ⁴¹	20.09 ¹	15.89 ¹¹	37.35 ¹⁸	59.87 ¹³	43.02 ¹⁵
31	56.16 ⁴⁰	20.08 ⁰	15.78 ¹⁰	37.53 ¹⁸	60.00 ¹³	43.17 ¹³
April 1	56.16 ³⁸	20.08 ¹	15.68 ⁹	37.71 ¹⁹	60.13 ¹³	43.30 ¹³
2	55.78 ³⁹	20.09 ²	15.59 ¹⁰	37.90 ²⁰	60.26 ¹⁴	43.43 ¹³
3	55.39 ⁴¹	20.11 ²	15.49 ¹⁰	38.10 ²²	60.40 ¹⁵	43.56 ¹³
4	54.98 ⁴³	20.13 ³	15.39 ¹¹	38.32 ²¹	60.55 ¹⁵	43.69 ¹⁵
5	54.55 ⁴⁴	20.16 ²	15.28 ¹²	38.53 ²²	60.70 ¹⁶	43.84 ¹⁶
6	54.11 ⁴⁶	20.18 ⁰	15.16 ¹²	38.75 ²⁰	60.86 ¹⁵	44.00 ¹⁸
7	53.65 ⁴⁸	20.18 ¹	15.04 ¹³	38.95 ¹⁹	61.01 ¹⁴	44.18 ²¹
8	53.17 ⁴⁷	20.17 ⁴	14.91 ¹⁴	39.14 ¹⁷	61.15 ¹⁴	44.39 ²³
9	52.70 ⁴⁶	20.13 ⁶	14.77 ¹⁵	39.31 ¹⁵	61.29 ¹²	44.62 ²³
10	52.24 ⁴⁴	20.07 ⁹	14.62 ¹⁴	39.46 ¹³	61.41 ¹²	44.85 ²⁵
11	51.80 ⁴³	19.98 ⁹	14.48 ¹³	39.59 ¹¹	61.53 ¹²	45.10 ²⁴
12	51.37 ⁴⁰	19.89 ¹⁰	14.35 ¹³	39.70 ¹⁰	61.65 ¹⁰	45.34 ²²
13	50.97 ³⁸	19.79 ¹⁰	14.22 ¹²	39.80 ¹¹	61.75 ¹⁰	45.56 ²¹
14	50.59 ³⁶	19.69 ⁸	14.10 ¹¹	39.91 ¹⁰	61.85 ¹⁰	45.77 ¹⁹
15	50.23 ³⁶	19.61 ⁸	13.99 ¹¹	40.01 ¹²	61.95 ¹¹	45.96 ¹⁹
16	49.87 ³⁶	19.53 ⁶	13.88 ¹²	40.13 ¹³	62.06 ¹¹	46.15 ¹⁹
17	49.51 ³⁸	19.47 ⁵	13.76 ¹¹	40.26 ¹⁴	62.17 ¹²	46.34 ²¹
18	49.13 ⁴¹	19.42 ⁷	13.65 ¹³	40.40 ¹⁵	62.29 ¹²	46.55 ²²
19	48.72 ⁴³	19.35 ⁶	13.52 ¹³	40.55 ¹⁵	62.41 ¹³	46.77 ²⁵
20	48.29 ⁴⁴	19.29 ⁷	13.39 ¹⁵	40.70 ¹³	62.54 ¹³	47.02 ²⁶
21	47.85 ⁴⁵	19.22 ¹⁰	13.24 ¹⁵	40.83 ¹¹	62.67 ¹¹	47.28 ²⁸
22	47.40 ⁴⁴	19.12 ¹³	13.09 ¹⁵	40.94 ¹⁰	62.78 ¹¹	47.56 ³⁰
22	46.96	18.99	12.94	41.04	62.89	47.86
O. C.	+ 0°.44	cos φ	+ 0°.15	cos φ	+ 0°.16	cos φ
U. C.	- 0°.44	cos φ	- 0°.15	cos φ	- 0°.16	cos φ

Obere Culmination.

1902	51 Hev. Cephei. 5 ^m .I.		I Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .3.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	6 ^h 54 ^m	+87° 12'	9 ^h 23 ^m	+81° 45'	16 ^h 56 ^m	+82° 11'
April 22	46.96 ^a ₄₄	18.99 ^b ₁₅	12.94 ^a ₁₅	41.04 ^b ₈	2.89 ^a ₁₀	47.86 ^b ₃₀
23	46.52 ₄₂	18.84 ₁₆	12.79 ₁₆	41.12 ₆	2.99 ₉	48.16 ₃₀
24	46.10 ₃₉	18.68 ₁₆	12.63 ₁₅	41.18 ₄	3.08 ₉	48.46 ₂₉
25	45.71 ₃₆	18.52 ₁₇	12.48 ₁₄	41.22 ₃	3.17 ₈	48.75 ₂₈
26	45.35 ₃₄	18.35 ₁₇	12.34 ₁₃	41.25 ₃	3.25 ₇	49.03 ₂₇
27	45.01 ₃₃	18.18 ₁₅	12.21 ₁₃	41.28 ₅	3.32 ₈	49.30 ₂₅
28	44.68 ₃₃	18.03 ₁₄	12.08 ₁₂	41.33 ₅	3.40 ₈	49.55 ₂₅
29	44.35 ₃₃	17.89 ₁₃	11.96 ₁₃	41.38 ₇	3.48 ₉	49.80 ₂₅
30	44.02 ₃₄	17.76 ₁₃	11.83 ₁₂	41.45 ₇	3.57 ₉	50.05 ₂₆
Mai 1	43.68 ₃₆	17.63 ₁₃	11.71 ₁₄	41.52 ₇	3.66 ₉	50.31 ₂₇
2	43.32 ₃₇	17.50 ₁₄	11.57 ₁₄	41.59 ₇	3.75 ₉	50.58 ₂₉
3	42.95 ₃₈	17.36 ₁₆	11.43 ₁₅	41.66 ₅	3.84 ₈	50.87 ₃₁
4	42.57 ₃₉	17.20 ₁₈	11.28 ₁₆	41.71 ₂	3.92 ₈	51.18 ₃₂
5	42.18 ₃₈	17.02 ₂₀	11.12 ₁₅	41.73 ₀	4.00 ₇	51.50 ₃₄
6	41.80 ₃₆	16.82 ₂₂	10.97 ₁₆	41.73 ₂	4.07 ₆	51.84 ₃₅
7	41.44 ₃₃	16.60 ₂₄	10.81 ₁₅	41.71 ₅	4.13 ₅	52.19 ₃₄
8	41.11 ₂₉	16.36 ₂₄	10.66 ₁₄	41.66 ₅	4.18 ₄	52.53 ₃₂
9	40.82 ₂₈	16.12 ₂₅	10.52 ₁₂	41.61 ₅	4.22 ₃	52.85 ₃₁
10	40.54 ₂₆	15.87 ₂₃	10.40 ₁₂	41.56 ₅	4.25 ₃	53.16 ₂₉
11	40.28 ₂₄	15.64 ₂₁	10.28 ₁₂	41.51 ₄	4.28 ₃	53.45 ₂₈
12	40.04 ₂₄	15.43 ₂₁	10.16 ₁₂	41.47 ₃	4.31 ₅	53.73 ₂₇
13	39.80 ₂₅	15.22 ₁₉	10.04 ₁₃	41.44 ₁	4.36 ₅	54.00 ₂₈
14	39.55 ₂₇	15.03 ₁₉	9.91 ₁₂	41.43 ₁	4.41 ₆	54.28 ₂₉
15	39.28 ₂₉	14.84 ₁₉	9.79 ₁₃	41.42 ₁	4.47 ₅	54.57 ₃₁
16	38.99 ₃₀	14.65 ₂₀	9.66 ₁₄	41.41 ₁	4.52 ₆	54.88 ₃₂
17	38.69 ₃₁	14.45 ₂₃	9.52 ₁₄	41.40 ₃	4.58 ₅	55.20 ₃₄
18	38.38 ₃₁	14.22 ₂₄	9.38 ₁₆	41.37 ₅	4.63 ₄	55.54 ₃₆
19	38.07 ₃₀	13.98 ₂₅	9.22 ₁₅	41.32 ₇	4.67 ₂	55.90 ₃₇
20	37.77 ₂₈	13.73 ₂₈	9.07 ₁₄	41.25 ₉	4.69 ₂	56.27 ₃₇
21	37.49 ₂₆	13.45 ₂₉	8.93 ₁₄	41.16 ₁₂	4.71 ₁	56.64 ₃₆
22	37.23 ₂₂	13.16 ₂₉	8.79 ₁₄	41.04 ₁₂	4.72 ₀	57.00 ₃₄
23	37.01 ₂₀	12.87 ₂₉	8.65 ₁₂	40.92 ₁₂	4.72 ₁	57.34 ₃₂
24	36.81 ₁₈	12.58 ₂₇	8.53 ₁₂	40.80 ₁₂	4.73 ₁	57.66 ₃₁
25	36.63 ₁₆	12.31 ₂₆	8.41 ₁₂	40.68 ₁₀	4.74 ₀	57.97 ₃₀
26	36.47 ₁₆	12.05 ₂₄	8.29 ₁₁	40.58 ₁₀	4.74 ₁	58.27 ₂₉
27	36.31 ₁₈	11.81 ₂₃	8.18 ₁₁	40.48 ₉	4.75 ₁	58.56 ₂₉
28	36.13 ₁₉	11.58 ₂₃	8.07 ₁₁	40.39 ₈	4.76 ₂	58.85 ₃₀
29	35.94	11.35	7.96	40.31	4.78	59.15

O. C. + 0°.44 cos φ

U. C. - 0.44 cos φ

+ 0°.15 cos φ

- 0.15 cos φ

+ 0°.16 cos φ

- 0.16 cos φ

Obere Culmination.

1902	5 I Hev. Cephei. 5 ^m . I.		I Hev. Draconis. 4 ^m . 3.		ε Ursae minoris. 4 ^m . 3.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	6 ^h 54 ^m	+87° 12'	9 ^h 23 ^m	+81° 45'	16 ^h 56 ^m	+82° 11'
Mai 29	35.94 ²⁰	11.35 ²⁵	7.96 ¹²	40.31 ⁸	4.78 ²	59.15 ³²
30	35.74 ²¹	11.10 ²⁵	7.84 ¹³	40.23 ¹⁰	4.80 ²	59.47 ³⁴
Juni 31	35.53 ²⁰	10.85 ²⁷	7.71 ¹³	40.13 ¹¹	4.82 ⁰	59.81 ³⁴
1	35.33 ²¹	10.58 ²⁹	7.58 ¹⁴	40.02 ¹⁴	4.82 ⁰	60.15 ³⁶
2	35.12 ¹⁹	10.29 ³²	7.44 ¹³	39.88 ¹⁶	4.82 ²	60.51 ³⁷
3	34.93 ¹⁶	9.97 ³³	7.31 ¹²	39.72 ¹⁸	4.80 ³	60.88 ³⁷
4	34.77 ¹³	9.64 ³³	7.19 ¹²	39.54 ¹⁹	4.77 ⁴	61.25 ³⁵
5	34.64 ¹⁰	9.31 ³³	7.07 ¹¹	39.35 ²⁰	4.73 ⁴	61.60 ³⁴
6	34.54 ⁸	8.98 ³²	6.96 ¹⁰	39.15 ²¹	4.69 ³	61.94 ³¹
7	34.46 ⁷	8.66 ³¹	6.86 ⁹	38.94 ¹⁹	4.66 ⁴	62.25 ³⁰
8	34.39 ⁵	8.35 ²⁹	6.77 ⁹	38.75 ¹⁹	4.62 ⁴	62.55 ²⁸
9	34.34 ⁵	8.06 ²⁸	6.68 ⁹	38.56 ¹⁶	4.58 ³	62.83 ²⁸
10	34.29 ⁸	7.78 ²⁷	6.59 ⁹	38.40 ¹⁵	4.55 ³	63.11 ²⁸
11	34.21 ⁹	7.51 ²⁶	6.50 ¹⁰	38.25 ¹⁵	4.52 ²	63.39 ³⁰
12	34.12 ¹⁰	7.25 ²⁷	6.40 ¹¹	38.10 ¹⁵	4.50 ³	63.69 ³¹
13	34.02 ¹¹	6.98 ²⁹	6.29 ¹¹	37.95 ¹⁶	4.47 ²	64.00 ³³
14	33.91 ¹¹	6.69 ³¹	6.18 ¹¹	37.79 ¹⁸	4.45 ⁴	64.33 ³⁵
15	33.80 ¹⁰	6.38 ³²	6.07 ¹¹	37.61 ²⁰	4.41 ⁴	64.68 ³⁶
16	33.70 ⁹	6.06 ³³	5.96 ¹²	37.41 ²³	4.37 ⁵	65.04 ³⁵
17	33.61 ⁷	5.73 ³⁴	5.84 ¹⁰	37.18 ²³	4.32 ⁶	65.39 ³³
18	33.54 ³	5.39 ³⁵	5.74 ¹¹	36.95 ²⁵	4.26 ⁶	65.72 ³⁵
19	33.51 ¹	5.04 ³⁴	5.63 ⁹	36.70 ²⁴	4.20 ⁸	66.05 ³¹
20	33.50 [—]	4.70 ³³	5.54 ⁸	36.46 ²⁴	4.12 ⁷	66.36 ²⁸
21	33.52 ⁴	4.37 ³²	5.46 ⁶	36.22 ²⁴	4.05 ⁷	66.64 ²⁸
22	33.56 ⁵	4.05 ³⁰	5.40 ⁷	35.98 ²²	3.98 ⁶	66.92 ²⁶
23	33.61 ³	3.75 ²⁹	5.33 ⁶	35.76 ²¹	3.92 ⁶	67.18 ²⁶
24	33.64 ²	3.46 ²⁸	5.27 ⁷	35.55 ²⁰	3.86 ⁶	67.44 ²⁶
25	33.66 ¹	3.18 ²⁷	5.20 ⁷	35.35 ²⁰	3.80 ⁵	67.70 ²⁷
26	33.67 ⁰	2.91 ²⁹	5.13 ⁸	35.15 ²¹	3.75 ⁷	67.97 ²⁹
27	33.67 ⁰	2.62 ³⁰	5.05 ⁹	34.94 ²³	3.68 ⁶	68.26 ³¹
28	33.67 ⁰	2.32 ³³	4.96 ⁹	34.71 ²⁴	3.62 ⁷	68.57 ³²
29	33.67 ¹	1.99 ³⁴	4.87 ⁹	34.47 ²⁷	3.55 ⁸	68.89 ³²
30	33.68 ³	1.65 ³⁵	4.78 ⁸	34.20 ²⁸	3.47 ¹⁰	69.21 ³¹
Juli 1	33.71 ⁷	1.30 ³⁶	4.70 ⁷	33.92 ³¹	3.37 ¹¹	69.52 ³¹
2	33.78 ⁹	0.94 ³⁶	4.63 ⁷	33.61 ³¹	3.26 ¹¹	69.83 ²⁹
3	33.87 ¹²	0.58 ³⁵	4.56 ⁵	33.30 ³²	3.15 ¹¹	70.12 ²⁷
4	33.99	0.23	4.51	32.98	3.04	70.39
O. C.	+ 0°.44 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
U. C.	— 0°.44 cos φ		— 0°.15 cos φ		— 0°.16 cos φ	

Obere Culmination.

1902	51 Hev. Cephei. 5 ^m .I.		I Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .3.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	6 ^h 54 ^m	+87° 11'	9 ^h 23 ^m	+81° 45'	16 ^h 55 ^m	+82° 12'
Juli 4	33.99 ¹⁵	60.23 ³⁴	4.51 ⁵	32.98 ³⁰	63.04 ¹¹	10.39 ²⁴
5	34.14 ¹⁶	59.89 ³²	4.46 ⁴	32.68 ²⁹	62.93 ¹¹	10.63 ²²
6	34.30 ¹⁵	59.57 ²⁹	4.42 ³	32.39 ²⁹	62.82 ¹¹	10.85 ²²
7	34.45 ¹⁴	59.28 ²⁹	4.39 ⁴	32.10 ²⁷	62.71 ⁹	11.07 ²²
8	34.59 ¹³	58.99 ²⁷	4.35 ⁵	31.83 ²⁶	62.62 ⁹	11.29 ²³
9	34.72 ¹²	58.72 ²⁸	4.30 ⁴	31.57 ²⁵	62.53 ⁹	11.52 ²⁴
10	34.84 ¹⁰	58.44 ²⁹	4.26 ⁶	31.32 ²⁶	62.44 ¹⁰	11.76 ²⁴
11	34.94 ⁸	58.15 ³¹	4.20 ⁶	31.06 ²⁷	62.34 ⁹	12.00 ²⁶
12	35.02 ¹⁰	57.84 ³²	4.14 ⁵	30.79 ²⁸	62.25 ¹⁰	12.26 ²⁸
13	35.12 ¹¹	57.52 ³³	4.09 ⁶	30.51 ³⁰	62.15 ¹¹	12.54 ²⁸
14	35.23 ¹³	57.19 ³⁴	4.03 ⁶	30.21 ³²	62.04 ¹³	12.82 ²⁷
15	35.36 ¹⁶	56.85 ³⁵	3.97 ⁵	29.89 ³³	61.91 ¹³	13.09 ²⁶
16	35.52 ¹⁹	56.50 ³⁴	3.92 ³	29.56 ³⁴	61.78 ¹³	13.35 ²⁴
17	35.71 ²²	56.16 ³³	3.89 ²	29.22 ³³	61.65 ¹³	13.59 ²²
18	35.93 ²³	55.83 ³¹	3.87 ²	28.89 ³³	61.52 ¹⁵	13.81 ²⁰
19	36.16 ²⁴	55.52 ²⁹	3.85 ¹	28.56 ³¹	61.37 ¹³	14.01 ¹⁸
20	36.40 ²⁵	55.23 ²⁸	3.84 ¹	28.25 ²⁹	61.24 ¹³	14.19 ¹⁷
21	36.65 ²³	54.95 ²⁷	3.83 ¹	27.96 ²⁹	61.11 ¹²	14.36 ¹⁸
22	36.88 ²²	54.68 ²⁶	3.82 ¹	27.67 ²⁹	60.99 ¹¹	14.54 ¹⁸
23	37.10 ²¹	54.42 ²⁶	3.81 ¹	27.38 ²⁸	60.88 ¹¹	14.72 ¹⁹
24	37.31 ¹⁹	54.16 ²⁸	3.79 ²	27.10 ²⁹	60.77 ¹³	14.91 ²⁰
25	37.50 ¹⁹	53.88 ²⁹	3.77 ²	26.81 ²⁹	60.64 ¹³	15.11 ²²
26	37.69 ²⁰	53.59 ³¹	3.75 ²	26.51 ³⁰	60.51 ¹³	15.33 ²²
27	37.89 ²²	53.28 ³¹	3.72 ³	26.18 ³³	60.38 ¹⁵	15.55 ²²
28	38.11 ²⁴	52.97 ³³	3.69 ²	25.83 ³⁶	60.23 ¹⁵	15.77 ²¹
29	38.35 ²⁸	52.64 ³³	3.67 ¹	25.47 ³⁸	60.08 ¹⁶	15.98 ¹⁹
30	38.63 ³⁰	52.31 ³²	3.66 ¹	25.09 ³⁷	59.92 ¹⁷	16.17 ¹⁷
31	38.93 ³²	51.99 ³⁰	3.67 ¹	24.72 ³⁶	59.75 ¹⁷	16.34 ¹⁵
Aug. 1	39.25 ³⁴	51.69 ²⁹	3.69 ¹	24.36 ³⁵	59.58 ¹⁶	16.49 ¹³
2	39.59 ³⁵	51.40 ²⁷	3.70 ²	24.01 ³³	59.42 ¹⁶	16.62 ¹²
3	39.94 ³⁴	51.13 ²⁵	3.72 ³	23.68 ³²	59.26 ¹⁵	16.74 ¹¹
4	40.28 ³²	50.88 ²⁵	3.75 ²	23.36 ³⁰	59.11 ¹⁴	16.85 ¹²
5	40.60 ³¹	50.63 ²³	3.77 ²	23.06 ³⁰	58.97 ¹⁴	16.97 ¹²
6	40.91 ²⁹	50.40 ²⁴	3.79 ⁰	22.76 ³¹	58.83 ¹⁴	17.09 ¹⁴
7	41.20 ²⁸	50.16 ²⁵	3.79 ¹	22.45 ³¹	58.69 ¹⁴	17.23 ¹⁴
8	41.48 ²⁷	49.91 ²⁷	3.80 ⁰	22.14 ³³	58.55 ¹⁴	17.37 ¹⁶
9	41.75 ²⁸	49.64 ²⁷	3.80 ⁰	21.81 ³³	58.41 ¹⁴	17.53 ¹⁶
	42.03 ²⁸	49.37 ²⁷				
O. C.	+ 0 ^s .44 cos φ		+ 0 ^s .15 cos φ		+ 0 ^s .16 cos φ	
U. C.	- 0 ^s .44 cos φ		- 0 ^s .15 cos φ		- 0 ^s .16 cos φ	

Obere Culmination.

1902	51 Hev. Cephei. 5 ^m .1.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .3.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	6 ^h 54 ^m	+87° 11'	9 ^h 23 ^m	+81° 45'	16 ^h 55 ^m	+82° 12'
Aug. 9	42.03	49.37	3.80	21.81	58.41	17.53
10	42.33	49.08	3.81	21.47	58.25	17.70
11	42.65	48.80	3.81	21.12	58.09	17.85
12	43.00	48.51	3.83	20.75	57.92	18.00
13	43.37	48.23	3.85	20.37	57.74	18.12
14	43.77	47.97	3.89	19.99	57.57	18.22
15	44.19	47.73	3.94	19.63	57.40	18.31
16	44.60	47.51	3.99	19.28	57.22	18.37
17	44.99	47.31	4.04	18.95	57.05	18.42
18	45.38	47.11	4.08	18.63	56.89	18.47
19	45.76	46.92	4.13	18.33	56.73	18.52
20	46.12	46.71	4.17	18.02	56.58	18.58
21	46.46	46.50	4.21	17.71	56.43	18.66
22	46.81	46.27	4.25	17.39	56.27	18.75
23	47.18	46.03	4.29	17.06	56.10	18.84
24	47.57	45.77	4.32	16.71	55.93	18.94
25	47.98	45.52	4.36	16.34	55.74	19.02
26	48.42	45.27	4.41	15.96	55.55	19.09
27	48.88	45.04	4.47	15.59	55.35	19.14
28	49.36	44.83	4.54	15.21	55.15	19.17
29	49.85	44.63	4.62	14.85	54.96	19.17
30	50.33	44.46	4.69	14.51	54.78	19.16
31	50.80	44.30	4.78	14.18	54.60	19.14
Sept. 1	51.25	44.15	4.87	13.87	54.44	19.11
2	51.68	44.01	4.94	13.57	54.27	19.09
3	52.10	43.85	5.02	13.28	54.11	19.08
4	52.50	43.68	5.09	12.98	53.95	19.09
5	52.91	43.51	5.15	12.67	53.78	19.11
6	53.33	43.31	5.21	12.35	53.61	19.15
7	53.76	43.12	5.28	12.00	53.43	19.17
8	54.22	42.92	5.34	11.65	53.25	19.18
9	54.70	42.73	5.41	11.29	53.06	19.19
10	55.21	42.56	5.50	10.94	52.86	19.17
11	55.73	42.41	5.60	10.59	52.67	19.12
12	56.25	42.28	5.71	10.26	52.48	19.05
13	56.77	42.17	5.82	9.94	52.31	18.97
14	57.27	42.08	5.94	9.64	52.13	18.88
			6.05	9.35		
O. C.	+ 0°.44 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
U. C.	- 0.44 cos φ		- 0.15 cos φ		- 0.16 cos φ	

Obere Culmination.

1902	51 Hev. Cephei. 5 ^m .1.		1 Hev. Draconis. 4 ^m .3.		• Ursae minoris. 4 ^m .3.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	6 ^h 54 ^m	+87° 11'	9 ^h 23 ^m	+81° 44'	16 ^h 55 ^m	+82° 12'
Sept. 14	57.27 ⁶	42.08 ⁹	6.05 ¹⁰	69.35 ²⁷	52.13 ¹⁶	18.88 ⁹
15	57.76 ⁴⁹	41.99 ¹⁰	6.15 ¹⁰	69.08 ²⁷	51.97 ¹⁷	18.79 ⁸
16	58.22 ⁴⁵	41.89 ¹⁰	6.25 ¹⁰	68.81 ²⁸	51.80 ¹⁶	18.71 ⁷
17	58.67 ⁴⁵	41.79 ¹¹	6.35 ⁹	68.53 ³⁰	51.64 ¹⁵	18.64 ⁵
18	59.12 ⁴⁶	41.68 ¹³	6.44 ⁹	68.23 ³¹	51.49 ¹⁷	18.59 ⁵
19	59.58 ⁴⁶	41.55 ¹⁴	6.53 ⁹	67.92 ³²	51.32 ¹⁸	18.54 ⁵
20	60.04 ⁴⁹	41.41 ¹⁴	6.62 ¹⁰	67.60 ³⁴	51.14 ¹⁹	18.49 ⁴
21	60.53 ⁵³	41.27 ¹⁴	6.72 ¹¹	67.26 ³⁴	50.95 ¹⁹	18.45 ⁶
22	61.06 ⁵⁴	41.13 ¹⁴	6.83 ¹²	66.92 ³³	50.76 ¹⁹	18.39 ⁸
23	61.60 ⁵⁵	40.99 ¹¹	6.95 ¹³	66.59 ³²	50.57 ²⁰	18.31 ¹¹
24	62.15 ⁵⁷	40.88 ⁹	7.08 ¹⁴	66.27 ³¹	50.37 ¹⁹	18.20 ¹²
25	62.72 ⁵⁶	40.79 ⁷	7.22 ¹⁴	65.96 ²⁹	50.18 ¹⁹	18.08 ¹⁴
26	63.28 ⁵⁵	40.72 ⁵	7.36 ¹³	65.67 ²⁶	49.99 ¹⁸	17.94 ¹⁶
27	63.83 ⁵⁴	40.67 ³	7.49 ¹³	65.41 ²⁵	49.81 ¹⁷	17.78 ¹⁶
28	64.37 ⁵⁰	40.64 ³	7.62 ¹³	65.16 ²⁵	49.64 ¹⁶	17.62 ¹⁵
29	64.87 ⁴⁹	40.61 ³	7.75 ¹³	64.91 ²⁴	49.48 ¹⁶	17.47 ¹⁴
30	65.36 ⁴⁸	40.58 ⁵	7.88 ¹²	64.67 ²⁵	49.32 ¹⁵	17.33 ¹⁴
Oct. 1	65.84 ⁴⁶	40.53 ⁶	8.00 ¹¹	64.42 ²⁶	49.17 ¹⁵	17.19 ¹²
2	66.30 ⁴⁷	40.47 ⁷	8.11 ¹²	64.16 ²⁷	49.02 ¹⁶	17.07 ¹¹
3	66.77 ⁴⁹	40.40 ⁷	8.23 ¹²	63.89 ²⁸	48.86 ¹⁷	16.96 ¹¹
4	67.26 ⁵⁰	40.33 ⁸	8.35 ¹²	63.61 ²⁹	48.69 ¹⁷	16.85 ¹²
5	67.76 ⁵³	40.25 ⁷	8.47 ¹³	63.32 ²⁹	48.52 ¹⁸	16.73 ¹³
6	68.29 ⁵⁴	40.18 ⁵	8.60 ¹⁵	63.03 ²⁸	48.34 ¹⁷	16.60 ¹⁵
7	68.83 ⁵⁷	40.13 ⁴	8.75 ¹⁵	62.75 ²⁷	48.17 ¹⁷	16.45 ¹⁷
8	69.40 ⁵⁷	40.09 ¹	8.90 ¹⁵	62.48 ²⁵	48.00 ¹⁸	16.28 ²⁰
9	69.97 ⁵⁶	40.08 ¹	9.05 ¹⁶	62.23 ²³	47.82 ¹⁶	16.08 ²¹
10	70.53 ⁵⁴	40.09 ³	9.21 ¹⁵	62.00 ²¹	47.66 ¹⁶	15.87 ²²
11	71.07 ⁵³	40.12 ³	9.36 ¹⁵	61.79 ²⁰	47.50 ¹⁵	15.65 ²²
12	71.60 ⁵⁰	40.15 ³	9.51 ¹⁵	61.59 ¹⁹	47.35 ¹⁴	15.43 ²²
13	72.10 ⁴⁹	40.18 ⁴	9.66 ¹⁴	61.40 ²⁰	47.21 ¹⁴	15.21 ²¹
14	72.59 ⁴⁷	40.22 ²	9.80 ¹⁴	61.20 ²⁰	47.07 ¹⁴	15.00 ²⁰
15	73.06 ⁴⁷	40.24 ⁰	9.94 ¹³	61.00 ²²	46.93 ¹⁴	14.80 ¹⁹
16	73.53 ⁴⁸	40.24 ¹	10.07 ¹⁴	60.78 ²²	46.79 ¹⁴	14.61 ¹⁸
17	74.01 ⁵⁰	40.23 ¹	10.21 ¹³	60.56 ²⁴	46.65 ¹⁵	14.43 ¹⁸
18	74.51 ⁵³	40.22 ¹	10.34 ¹⁵	60.32 ²⁵	46.50 ¹⁶	14.25 ¹⁸
19	75.04 ⁵⁴	40.21 ¹	10.49 ¹⁶	60.07 ²⁵	46.34 ¹⁶	14.07 ²⁰
20	75.58 ⁵⁷	40.20 ¹	10.65 ¹⁷	59.82 ²³	46.18 ¹⁷	13.87 ²¹
21	76.15 ⁵⁷	40.21 ¹	10.82 ¹⁷	59.59 ²³	46.01 ¹⁷	13.66 ²¹
O. C.	+ 0°.44 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
U. C.	- 0°.44 cos φ		- 0°.15 cos φ		- 0°.16 cos φ	

Obere Culmination.

1902	51 Hev. Cephei. 5 ^m .I.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .3.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	6 ^h 55 ^m	+87° 11'	9 ^h 23 ^m	+81° 44'	16 ^h 55 ^m	+82° 12'
Oct. 21	16.15	40.21	10.82	59.59	45.01	13.66
22	16.72	40.24	11.00	59.37	45.85	13.42
23	17.28	40.30	11.18	59.17	45.69	13.16
24	17.84	40.37	11.35	58.99	45.55	12.88
25	18.38	40.46	11.53	58.83	45.41	12.60
26	18.89	40.56	11.70	58.69	45.28	12.31
27	19.38	40.67	11.85	58.55	45.17	12.04
28	19.84	40.76	12.00	58.41	45.05	11.79
29	20.30	40.84	12.16	58.27	44.94	11.54
30	20.74	40.92	12.31	58.11	44.82	11.31
31	21.20	40.98	12.46	57.95	44.70	11.08
Nov. 1	21.68	41.04	12.61	57.77	44.58	10.85
2	22.16	41.11	12.77	57.60	44.45	10.61
3	22.67	41.18	12.95	57.43	44.32	10.35
4	23.20	41.27	13.13	57.27	44.18	10.07
5	23.72	41.38	13.31	57.13	44.06	9.77
6	24.24	41.52	13.49	57.01	43.94	9.45
7	24.75	41.67	13.68	56.92	43.83	9.12
8	25.24	41.84	13.86	56.84	43.73	8.80
9	25.70	42.01	14.03	56.77	43.63	8.47
10	26.14	42.17	14.20	56.71	43.55	8.15
11	26.56	42.33	14.36	56.63	43.46	7.85
12	26.97	42.47	14.52	56.55	43.38	7.56
13	27.38	42.61	14.68	56.46	43.30	7.28
14	27.80	42.73	14.85	56.34	43.21	7.01
15	28.24	42.84	15.01	56.22	43.11	6.73
16	28.70	42.96	15.19	56.11	43.01	6.43
17	29.18	43.10	15.37	56.00	42.90	6.13
18	29.67	43.26	15.56	55.90	42.80	5.80
19	30.16	43.44	15.75	55.83	42.70	5.45
20	30.64	43.64	15.94	55.78	42.62	5.09
21	31.10	43.86	16.13	55.76	42.54	4.71
22	31.52	44.09	16.32	55.75	42.48	4.34
23	31.92	44.32	16.50	55.75	42.42	3.98
24	32.29	44.55	16.66	55.75	42.37	3.63
25	32.64	44.76	16.81	55.75	42.32	3.29
26	32.98	44.97	16.97	55.74	42.28	2.97
27	33.32	45.16	17.13	55.72	42.23	2.66
O. C.	+ 0° 44 cos φ		+ 0° 15 cos φ		+ 0° 16 cos φ	
U. C.	- 0 44 cos φ		- 0 15 cos φ		- 0 16 cos φ	

Obere Culmination.

1902	51 Hev. Cephei. 5 ^m .1.		1 Hev. Draconis. 4 ^m .3.		ε Ursae minoris. 4 ^m .3.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	6 ^h 55 ^m	+87° 11'	9 ^h 23 ^m	+81° 44'	16 ^h 55 ^m	+82° 11'
Nov. 27	33.32 ⁵	45.16 ¹⁸	17.13 ¹⁶	55.72 ³	42.23 ⁵	62.66 ³⁰
28	33.67 ³⁵	45.34 ¹⁹	17.29 ¹⁷	55.69 ²	42.18 ⁶	62.36 ³¹
29	34.03 ³⁹	45.53 ²⁰	17.46 ¹⁶	55.67 ²	42.12 ⁶	62.05 ³²
30	34.42 ⁴⁰	45.73 ²⁰	17.62 ¹⁸	55.65 ²	42.06 ⁵	61.73 ³³
Dec. 1	34.82 ⁴⁰	45.93 ²³	17.80 ¹⁸	55.63 ⁰	42.01 ⁶	61.40 ³⁶
2	35.22 ³⁹	46.16 ²⁵	17.98 ¹⁹	55.63 ³	41.95 ⁴	61.04 ³⁸
3	35.61 ³⁸	46.41 ²⁷	18.17 ¹⁸	55.66 ⁵	41.91 ⁴	60.66 ³⁸
4	35.99 ³⁵	46.68 ²⁷	18.35 ¹⁹	55.71 ⁷	41.87 ³	60.28 ³⁸
5	36.34 ³³	46.95 ²⁹	18.54 ¹⁷	55.78 ⁸	41.84 ³	59.90 ³⁸
6	36.67 ³⁰	47.24 ²⁹	18.71 ¹⁷	55.86 ⁹	41.81 ¹	59.52 ³⁷
7	36.97 ²⁸	47.53 ²⁷	18.88 ¹⁵	55.95 ⁹	41.80 ⁰	59.15 ³⁶
8	37.25 ²⁶	47.80 ²⁷	19.03 ¹⁵	56.04 ⁸	41.80 ¹	58.79 ³⁴
9	37.51 ²⁵	48.07 ²⁵	19.18 ¹⁶	56.12 ⁷	41.79 ⁰	58.45 ³³
10	37.76 ²⁶	48.32 ²⁴	19.34 ¹⁵	56.19 ⁵	41.79 ¹	58.12 ³²
11	38.02 ²⁸	48.56 ²³	19.49 ¹⁵	56.24 ⁵	41.78 ²	57.80 ³²
12	38.30 ²⁹	48.79 ²³	19.64 ¹⁶	56.29 ⁵	41.76 ¹	57.48 ³²
13	38.59 ³⁰	49.02 ²³	19.80 ¹⁶	56.34 ⁵	41.75 ²	57.16 ³²
14	38.89 ³²	49.25 ²⁶	19.96 ¹⁸	56.39 ⁵	41.73 ³	56.82 ³⁴
15	39.21 ³²	49.51 ²⁷	20.14 ¹⁷	56.44 ⁸	41.70 ³	56.46 ³⁶
16	39.53 ³⁰	49.78 ²⁹	20.31 ¹⁸	56.52 ¹⁰	41.69 ¹	56.08 ³⁸
17	39.83 ²⁸	50.07 ³²	20.49 ¹⁷	56.62 ¹²	41.68 ¹	55.69 ³⁹
18	40.11 ²⁶	50.39 ³²	20.66 ¹⁶	56.74 ¹⁴	41.68 ⁰	55.29 ⁴⁰
19	40.37 ²²	50.71 ³³	20.82 ¹⁶	56.88 ¹⁶	41.69 ²	54.89 ³⁸
20	40.59 ²⁰	51.04 ³²	20.98 ¹⁴	57.04 ¹⁵	41.71 ⁴	54.51 ³⁷
21	40.79 ¹⁷	51.36 ³²	21.12 ¹⁴	57.19 ¹⁶	41.75 ⁴	54.14 ³⁵
22	40.96 ¹⁴	51.68 ³⁰	21.26 ¹⁴	57.35 ¹⁵	41.79 ⁴	53.79 ³⁴
23	41.10 ¹⁴	51.98 ²⁹	21.40 ¹²	57.50 ¹⁴	41.83 ³	53.45 ³³
24	41.24 ¹⁵	52.27 ²⁷	21.52 ¹³	57.64 ¹³	41.86 ⁴	53.12 ³²
25	41.39 ¹⁶	52.54 ²⁶	21.65 ¹³	57.77 ¹²	41.90 ³	52.80 ³¹
26	41.55 ¹⁷	52.80 ²⁸	21.78 ¹³	57.89 ¹³	41.93 ²	52.49 ³²
27	41.72 ¹⁸	53.08 ²⁸	21.91 ¹⁵	58.02 ¹⁴	41.95 ³	52.17 ³³
28	41.90 ¹⁹	53.36 ³⁰	22.06 ¹⁵	58.16 ¹⁵	41.98 ³	51.84 ³⁴
29	42.09 ¹⁸	53.66 ³¹	22.21 ¹⁴	58.31 ¹⁶	42.01 ⁴	51.50 ³⁵
30	42.27 ¹⁸	53.97 ³³	22.35 ¹⁵	58.47 ¹⁹	42.05 ⁴	51.15 ³⁷
31	42.45 ¹⁵	54.30 ³⁵	22.50 ¹⁴	58.66 ²¹	42.09 ⁵	50.78 ³⁸
32	42.60	54.65	22.64	58.87	42.14 ⁷	50.40 ³⁸
					42.21	50.02
O. C.	+ 0°.44 cos φ		+ 0°.15 cos φ		+ 0°.16 cos φ	
U. C.	- 0°.44 cos φ		- 0°.15 cos φ		- 0°.16 cos φ	

Obere Culmination.

1902	♁ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .4.		76 Draconis. 6 ^m .0.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	18 ^h 3 ^m	+86° 36'	19 ^h 18 ^m	+88° 59'	20 ^h 49 ^m	+82° 10'
Jan. 1	26.64	52.51	51.45	41.75	35.46	26.29
2	26.68	52.19	51.19	41.42	35.38	26.01
3	26.72	51.89	50.94	41.12	35.29	25.74
4	26.75	51.60	50.68	40.83	35.21	25.49
5	26.77	51.29	50.39	40.55	35.13	25.24
6	26.78	50.98	50.06	40.27	35.05	25.01
7	26.79	50.66	49.69	39.98	34.97	24.76
8	26.81	50.31	49.31	39.67	34.88	24.50
9	26.85	49.95	48.94	39.35	34.78	24.22
10	26.92	49.59	48.61	39.01	34.69	23.92
11	27.01	49.22	48.34	38.65	34.69	23.61
12	27.11	48.87	48.15	38.29	34.59	23.28
13	27.23	48.53	48.04	37.93	34.51	22.95
14	27.37	48.20	48.01	37.58	34.44	22.61
15	27.51	47.90	48.04	37.24	34.38	22.28
16	27.64	47.61	48.10	36.91	34.33	21.96
17	27.77	47.33	48.16	36.61	34.28	21.67
18	27.88	47.06	48.20	36.32	34.25	21.39
19	27.98	46.78	48.21	36.03	34.20	21.12
20	28.07	46.49	48.17	35.74	34.16	20.85
21	28.18	46.18	48.11	35.44	34.11	20.56
22	28.29	45.86	48.05	35.13	34.06	20.27
23	28.42	45.52	48.01	34.80	34.00	19.96
24	28.58	45.18	48.01	34.45	33.94	19.63
25	28.76	44.86	48.09	34.10	33.88	19.28
26	28.97	44.54	48.26	33.74	33.84	18.93
27	29.20	44.24	48.53	33.38	33.80	18.56
28	29.44	43.96	48.88	33.04	33.77	18.20
29	29.68	43.70	49.29	32.71	33.76	17.84
30	29.91	43.45	49.72	32.40	33.76	17.51
31	30.13	43.22	50.15	32.11	33.77	17.19
Febr. 1	30.35	42.99	50.57	31.84	33.77	16.88
2	30.55	42.76	50.94	31.56	33.77	16.59
3	30.74	42.51	51.27	31.29	33.76	16.29
4	30.95	42.24	51.58	31.00	33.75	15.97
5	31.16	41.97	51.88	30.70	33.74	15.65
			52.21	30.39	33.73	15.32
O. C.	+ 0 ^s .36 cos φ		+ 1 ^s .22 cos φ		+ 0 ^s .16 cos φ	
U. C.	- 0 ^s .36 cos φ		- 1 ^s .22 cos φ		- 0 ^s .16 cos φ	

Obere Culmination.

1902	♁ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .4.		76 Draconis. 6 ^m .0.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	18 ^h 3 ^m	+86° 36'	19 ^h 18 ^m	+88° 59'	20 ^h 49 ^m	+82° 10'
Febr. 5	31.16	41.97	52.21	30.39	33.73	15.32
6	31.39 ²³	41.68 ²⁹	52.59 ³⁸	30.06 ³³	33.72 ¹	14.97 ³⁵
7	31.64 ²⁵	41.39 ²⁹	53.04 ⁴⁵	29.72 ³⁴	33.71 ¹	14.61 ³⁶
8	31.92 ²⁸	41.12 ²⁷	53.57 ⁵³	29.39 ³³	33.72 ¹	14.24 ³⁷
9	32.21 ²⁹	40.86 ²⁶	54.17 ⁶⁰	29.07 ³²	33.74 ²	13.87 ³⁷
	31 ³¹	24 ²⁴	66 ⁶⁶	31 ³¹	3 ³	35 ³⁵
10	32.52 ³⁰	40.62 ²¹	54.83 ⁷¹	28.76 ²⁹	33.77 ⁴	13.52 ³⁴
11	32.82 ³¹	40.41 ¹⁹	55.54 ⁷³	28.47 ²⁷	33.81 ³	13.18 ³³
12	33.13 ²⁹	40.22 ¹⁸	56.27 ⁷¹	28.20 ²⁴	33.84 ⁵	12.85 ³¹
13	33.42 ²⁸	40.04 ¹⁷	56.98 ⁶⁶	27.96 ²³	33.89 ⁴	12.54 ²⁹
14	33.70 ²⁶	39.87 ¹⁶	57.64 ⁶²	27.73 ²³	33.93 ³	12.25 ²⁹
15	33.96 ²⁵	39.71 ¹⁸	58.26 ⁵⁹	27.50 ²⁴	33.96 ³	11.96 ²⁸
16	34.21 ²⁵	39.53 ¹⁹	58.85 ⁵⁶	27.26 ²⁵	33.99 ³	11.68 ²⁹
17	34.46 ²⁶	39.34 ²⁰	59.41 ⁵⁷	27.01 ²⁶	34.02 ³	11.39 ³⁰
18	34.72 ²⁸	39.14 ²¹	59.98 ⁶⁰	26.75 ²⁸	34.05 ³	11.09 ³³
19	35.00 ²⁹	38.93 ²²	60.58 ⁶⁷	26.47 ²⁸	34.08 ³	10.76 ³⁴
20	35.29 ³²	38.71 ²¹	61.25 ⁷⁴	26.19 ²⁹	34.11 ⁵	10.42 ³⁴
21	35.61 ³⁴	38.50 ²⁰	61.99 ⁸³	25.90 ²⁸	34.16 ⁵	10.08 ³⁵
22	35.95 ³⁶	38.30 ¹⁸	62.82 ⁹³	25.62 ²⁷	34.21 ⁶	9.73 ³⁴
23	36.31 ³⁸	38.12 ¹⁶	63.75 ⁹⁸	25.35 ²⁵	34.27 ⁷	9.39 ³⁴
24	36.69 ³⁷	37.96 ¹³	64.73 ¹⁰¹	25.10 ²³	34.34 ⁸	9.05 ³¹
25	37.06 ³⁶	37.83 ¹¹	65.74 ¹⁰¹	24.87 ²¹	34.42 ⁹	8.74 ³⁰
26	37.42 ³⁶	37.72 ¹⁰	66.75 ¹⁰⁰	24.66 ¹⁹	34.51 ⁹	8.44 ²⁸
27	37.78 ³⁴	37.62 ¹⁰	67.75 ⁹⁵	24.47 ¹⁸	34.60 ⁹	8.16 ²⁶
28	38.12 ³²	37.52 ⁹	68.70 ⁹⁰	24.29 ¹⁸	34.69 ⁸	7.90 ²⁵
März 1	38.44 ³¹	37.43 ¹⁰	69.60 ⁸⁷	24.11 ¹⁸	34.77 ⁸	7.65 ²⁶
2	38.75 ³²	37.33 ¹¹	70.47 ⁸⁵	23.93 ²⁰	34.85 ⁷	7.39 ²⁶
3	39.07 ³²	37.22 ¹³	71.32 ⁸⁴	23.73 ²⁰	34.92 ⁶	7.13 ²⁸
4	39.39 ³³	37.09 ¹³	72.16 ⁸⁸	23.53 ²²	34.98 ⁷	6.85 ²⁹
5	39.72 ³⁴	36.96 ¹³	73.04 ⁹³	23.31 ²²	35.05 ⁸	6.56 ³¹
6	40.06 ³⁷	36.83 ¹³	73.97 ¹⁰⁰	23.09 ²²	35.13 ⁸	6.25 ³⁰
7	40.43 ³⁸	36.70 ¹¹	74.97 ¹⁰⁷	22.87 ²¹	35.21 ¹⁰	5.95 ³¹
8	40.81 ³⁹	36.59 ⁹	76.04 ¹¹³	22.66 ²⁰	35.31 ¹⁰	5.64 ³⁰
9	41.20 ⁴⁰	36.50 ⁷	77.17 ¹¹⁷	22.46 ¹⁸	35.41 ¹¹	5.34 ²⁸
10	41.60 ³⁹	36.43 ⁴	78.34 ¹¹⁹	22.28 ¹⁵	35.52 ¹²	5.06 ²⁶
11	41.99 ³⁸	36.39 ³	79.53 ¹¹⁷	22.13 ¹³	35.64 ¹²	4.80 ²⁴
12	42.37 ³⁷	36.36 ¹	80.70 ¹¹³	22.00 ¹¹	35.76 ¹¹	4.56 ²²
13	42.74 ³⁴	36.35 ¹	81.83 ¹⁰⁸	21.89 ¹⁰	35.87 ¹²	4.34 ²⁰
14	43.08	36.34	82.91	21.79	35.99	4.14
Ö. C.	+ 0°.36 cos φ		+ 1°.21 cos φ		+ 0°.16 cos φ	
U. C.	- 0°.36 cos φ		- 1°.21 cos φ		- 0°.16 cos φ	

Obere Culmination.

1902	♁ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .4.		76 Draconis. 6 ^m .0.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	18 ^h 3 ^m	+86° 36'	19 ^h 19 ^m	+88° 59'	20 ^h 49 ^m	+82° 9'
März 14	43.08 ³³	36.34 ¹	22.91 ¹⁰²	21.79 ¹⁰	35.99 ¹¹	64.14 ¹⁹
15	43.41 ³³	36.33 ¹	23.93 ⁹⁸	21.69 ¹²	36.10 ¹⁰	63.95 ¹⁹
16	43.74 ³²	36.32 ³	24.91 ⁹⁷	21.57 ¹²	36.20 ⁹	63.76 ²⁰
17	44.06 ³²	36.29 ⁴	25.88 ⁹⁸	21.45 ¹³	36.29 ¹⁰	63.56 ²¹
18	44.38 ³⁵	36.25 ⁴	26.86 ¹⁰²	21.32 ¹³	36.39 ¹⁰	63.35 ²⁴
19	44.73 ³⁶	36.21 ⁵	27.88 ¹⁰⁸	21.19 ¹⁵	36.49 ¹¹	63.11 ²⁴
20	45.09 ³⁹	36.16 ⁴	28.96 ¹¹⁵	21.04 ¹⁴	36.60 ¹¹	62.87 ²⁵
21	45.48 ³⁹	36.12 ²	30.11 ¹²³	20.90 ¹³	36.71 ¹³	62.62 ²⁵
22	45.87 ⁴¹	36.10 ⁰	31.34 ¹²⁹	20.77 ¹¹	36.84 ¹⁴	62.37 ²²
23	46.28 ⁴¹	36.10 ³	32.63 ¹³³	20.66 ⁹	36.98 ¹⁵	62.15 ²¹
24	46.69 ⁴⁰	36.13 ⁵	33.96 ¹³³	20.57 ⁷	37.13 ¹⁵	61.94 ¹⁹
25	47.09 ³⁹	36.18 ⁷	35.29 ¹³²	20.50 ⁵	37.28 ¹⁵	61.75 ¹⁷
26	47.48 ³⁷	36.25 ⁸	36.61 ¹²⁶	20.45 ³	37.43 ¹⁵	61.58 ¹⁵
27	47.85 ³⁶	36.33 ⁸	37.87 ¹²⁰	20.42 ³	37.58 ¹⁴	61.43 ¹⁴
28	48.21 ³⁴	36.41 ⁸	39.07 ¹¹⁴	20.39 ²	37.72 ¹⁴	61.29 ¹³
29	48.55 ³²	36.49 ⁷	40.21 ¹¹⁰	20.37 ³	37.86 ¹³	61.16 ¹⁴
30	48.87 ³³	36.56 ⁵	41.31 ¹⁰⁸	20.34 ⁴	37.99 ¹²	61.02 ¹⁵
31	49.20 ³³	36.61 ⁴	42.39 ¹⁰⁹	20.30 ⁶	38.11 ¹³	60.87 ¹⁵
April 1	49.53 ³⁴	36.65 ⁴	43.48 ¹¹³	20.24 ⁶	38.24 ¹²	60.72 ¹⁷
2	49.87 ³⁶	36.69 ⁴	44.61 ¹¹⁸	20.18 ⁶	38.36 ¹³	60.55 ¹⁸
3	50.23 ³⁷	36.73 ⁶	45.79 ¹²³	20.12 ⁶	38.49 ¹⁵	60.37 ¹⁷
4	50.60 ³⁹	36.79 ⁷	47.02 ¹²⁹	20.06 ⁴	38.64 ¹⁵	60.20 ¹⁶
5	50.99 ³⁸	36.86 ¹⁰	48.31 ¹³³	20.02 ¹	38.79 ¹⁶	60.04 ¹⁵
6	51.37 ³⁸	36.96 ¹²	49.64 ¹³⁵	20.01 ¹	38.95 ¹⁷	59.89 ¹²
7	51.75 ³⁶	37.08 ¹⁴	50.99 ¹³²	20.02 ²	39.12 ¹⁷	59.77 ¹⁰
8	52.11 ³⁵	37.22 ¹⁵	52.31 ¹²⁸	20.04 ⁴	39.29 ¹⁶	59.67 ⁷
9	52.46 ³³	37.37 ¹⁶	53.59 ¹²¹	20.08 ⁶	39.45 ¹⁶	59.60 ⁶
10	52.79 ³¹	37.53 ¹⁶	54.80 ¹¹⁵	20.14 ⁷	39.61 ¹⁶	59.54 ⁴
11	53.10 ²⁹	37.69 ¹⁵	55.95 ¹⁰⁹	20.21 ⁶	39.77 ¹⁴	59.50 ⁵
12	53.39 ²⁸	37.84 ¹⁵	57.04 ¹⁰⁵	20.27 ⁵	39.91 ¹⁵	59.45 ⁵
13	53.67 ²⁹	37.99 ¹³	58.09 ¹⁰⁴	20.32 ⁴	40.06 ¹⁴	59.40 ⁶
14	53.96 ²⁹	38.12 ¹²	59.13 ¹⁰⁶	20.36 ³	40.20 ¹³	59.34 ⁸
15	54.25 ³⁰	38.24 ¹²	60.19 ¹¹⁰	20.39 ²	40.33 ¹⁴	59.26 ⁸
16	54.55 ³²	38.36 ¹²	61.29 ¹¹⁵	20.41 ³	40.47 ¹⁵	59.18 ⁹
17	54.87 ³⁴	38.48 ¹⁴	62.44 ¹²²	20.44 ³	40.62 ¹⁶	59.09 ⁸
18	55.21 ³⁵	38.62 ¹⁵	63.66 ¹²⁷	20.47 ⁴	40.78 ¹⁷	59.01 ⁷
19	55.56 ³⁵	38.77 ¹⁸	64.93 ¹³¹	20.51 ⁷	40.95 ¹⁷	58.94 ⁵
20	55.91	38.95	66.24	20.58	41.12	58.89
O. C.	+ 0°.36 cos φ		+ 1°.21 cos φ		+ 0°.16 cos φ	
U. C.	- 0.36 cos φ		- 1.21 cos φ		- 0.16 cos φ	

Obere Culmination.

1902	♂ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .4.		76 Draconis. 6 ^m .0.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	18 ^h 3 ^m	+86° 36'	19 ^h 20 ^m	+88° 59'	20 ^h 49 ^m	+82° 9'
April 20	55.91 ¹ 34	38.95 ²⁰	6.24 ⁵ 131	20.58 ⁹	41.12 ¹⁸	58.89 ³
21	56.25 ³³	39.15 ²³	7.55 ¹²⁹	20.67 ¹²	41.30 ¹⁸	58.86 ²
22	56.58 ³⁰	39.38 ²³	8.84 ¹²⁴	20.79 ¹³	41.48 ¹⁸	58.84 ⁰
23	56.88 ²⁹	39.61 ²⁴	10.08 ¹¹⁷	20.92 ¹⁴	41.66 ¹⁶	58.84 ²
24	57.17 ²⁷	39.85 ²³	11.25 ¹¹⁰	21.06 ¹⁴	41.82 ¹⁷	58.86 ⁴
25	57.44 ²⁵	40.08 ²²	12.35 ¹⁰⁴	21.20 ¹³	41.99 ¹⁶	58.90 ³
26	57.69 ²⁴	40.30 ²¹	13.39 ¹⁰⁰	21.33 ¹³	42.15 ¹⁵	58.93 ³
27	57.93 ²⁴	40.51 ²⁰	14.39 ⁹⁸	21.46 ¹²	42.30 ¹⁴	58.96 ¹
28	58.17 ²⁵	40.71 ¹⁹	15.37 ¹⁰⁰	21.58 ¹¹	42.44 ¹⁵	58.97 ¹
29	58.42 ²⁶	40.90 ¹⁸	16.37 ¹⁰⁴	21.69 ⁹	42.59 ¹⁵	58.98 ⁰
30	58.68 ²⁷	41.08 ¹⁹	17.41 ¹⁰⁸	21.78 ¹⁰	42.74 ¹⁵	58.98 ¹
Mai 1	58.95 ²⁷	41.27 ²⁰	18.49 ¹¹²	21.88 ¹¹	42.89 ¹⁶	58.97 ⁰
2	59.22 ²⁹	41.47 ²³	19.61 ¹¹⁵	21.99 ¹³	43.05 ¹⁷	58.97 ²
3	59.51 ²⁸	41.70 ²⁵	20.76 ¹¹⁷	22.12 ¹⁵	43.22 ¹⁸	58.99 ³
4	59.79 ²⁷	41.95 ²⁷	21.93 ¹¹⁵	22.27 ¹⁸	43.40 ¹⁷	59.02 ⁶
5	60.06 ²⁴	42.22 ²⁹	23.08 ¹¹¹	22.45 ²⁰	43.57 ¹⁸	59.08 ⁹
6	60.30 ²³	42.51 ²⁹	24.19 ¹⁰⁴	22.65 ²¹	43.75 ¹⁷	59.17 ¹¹
7	60.53 ²⁰	42.80 ²⁹	25.23 ⁹⁷	22.86 ²²	43.92 ¹⁶	59.28 ¹²
8	60.73 ¹⁸	43.09 ²⁹	26.20 ⁸⁹	23.08 ²¹	44.08 ¹⁶	59.40 ¹²
9	60.91 ¹⁶	43.38 ²⁷	27.09 ⁸³	23.29 ²¹	44.24 ¹⁴	59.52 ¹²
10	61.07 ¹⁶	43.65 ²⁶	27.92 ⁷⁹	23.50 ²⁰	44.38 ¹⁵	59.64 ¹¹
11	61.23 ¹⁶	43.91 ²⁴	28.71 ⁷⁹	23.70 ¹⁹	44.53 ¹³	59.75 ¹⁰
12	61.39 ¹⁶	44.15 ²⁴	29.50 ⁸¹	23.89 ¹⁷	44.66 ¹⁴	59.85 ¹⁰
13	61.55 ¹⁹	44.39 ²⁴	30.31 ⁸⁵	24.06 ¹⁷	44.80 ¹³	59.95 ⁸
14	61.74 ²⁰	44.63 ²⁴	31.16 ⁹¹	24.23 ¹⁷	44.93 ¹⁵	60.03 ⁸
15	61.94 ²¹	44.87 ²⁶	32.07 ⁹⁶	24.40 ¹⁸	45.08 ¹⁵	60.11 ⁹
16	62.15 ²²	45.13 ²⁷	33.03 ¹⁰⁰	24.58 ²⁰	45.23 ¹⁶	60.20 ¹⁰
17	62.37 ²⁰	45.40 ³⁰	34.03 ¹⁰⁰	24.78 ²²	45.39 ¹⁷	60.30 ¹²
18	62.57 ¹⁹	45.70 ³²	35.03 ⁹⁸	25.00 ²⁵	45.56 ¹⁷	60.42 ¹⁴
19	62.76 ¹⁸	46.02 ³⁴	36.01 ⁹³	25.25 ²⁶	45.73 ¹⁷	60.56 ¹⁷
20	62.94 ¹⁵	46.36 ³⁴	36.94 ⁸⁶	25.51 ²⁷	45.90 ¹⁶	60.73 ¹⁸
21	63.09 ¹²	46.70 ³³	37.80 ⁷⁸	25.78 ²⁸	46.06 ¹⁵	60.91 ¹⁹
22	63.21 ¹¹	47.03 ³²	38.58 ⁷⁰	26.06 ²⁸	46.21 ¹⁵	61.10 ¹⁹
23	63.32 ⁹	47.35 ³⁰	39.28 ⁶⁵	26.34 ²⁶	46.36 ¹³	61.29 ¹⁹
24	63.41 ⁹	47.65 ²⁹	39.93 ⁶¹	26.60 ²⁵	46.49 ¹²	61.48 ¹⁷
25	63.50 ⁹	47.94 ²⁸	40.54 ⁶¹	26.85 ²³	46.61 ¹²	61.65 ¹⁷
26	63.59 ¹⁰	48.22 ²⁸	41.15 ⁶³	27.08 ²²	46.73 ¹³	61.82 ¹⁷
27	63.69	48.50	41.78	27.30	46.86	61.99
O. C.	+ 0°.36 cos φ		+ 1°.21 cos φ		+ 0°.16 cos φ	
U. C.	- 0.36 cos φ		- 1.21 cos φ		- 0.16 cos φ	

Obere Culmination.

1902	♁ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .4.		76 Draconis. 6 ^m .0.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	18 ^h 4 ^m	+86° 36'	19 ^h 20 ^m	+88° 59'	20 ^h 49 ^m	+82° 10'
Mai 27	3.69 ¹¹	48.50 ²⁷	41.78 ⁶⁶	27.30 ²²	46.86 ¹³	1.99 ¹⁵
28	3.80 ¹²	48.77 ²⁸	42.44 ⁷¹	27.52 ²⁴	46.99 ¹⁴	2.14 ¹⁶
29	3.92 ¹³	49.05 ²⁹	43.15 ⁷⁴	27.76 ²⁴	47.13 ¹⁵	2.30 ¹⁸
30	4.05 ¹²	49.34 ³¹	43.89 ⁷⁶	28.00 ²⁶	47.28 ¹⁴	2.48 ¹⁹
31	4.17 ¹²	49.65 ³⁴	44.65 ⁷⁴	28.26 ²⁸	47.42 ¹⁴	2.67 ²⁰
Juni 1	4.29 ⁹	49.99 ³⁵	45.39 ⁷⁰	28.54 ³¹	47.56 ¹⁵	2.87 ²²
2	4.38 ⁷	50.34 ³⁶	46.09 ⁶³	28.85 ³¹	47.71 ¹⁵	3.09 ²⁴
3	4.45 ⁵	50.70 ³⁶	46.72 ⁵⁴	29.16 ³²	47.86 ¹³	3.33 ²⁶
4	4.50 ²	51.06 ³⁵	47.26 ⁴⁶	29.48 ³³	47.99 ¹²	3.59 ²⁷
5	4.52 ¹	51.41 ³⁴	47.72 ⁴⁰	29.81 ³²	48.11 ¹¹	3.86 ²⁷
6	4.51 ¹	51.75 ³¹	48.12 ³⁵	30.13 ³⁰	48.22 ¹⁰	4.13 ²⁷
7	4.50 ¹	52.06 ³¹	48.47 ³¹	30.43 ²⁹	48.32 ¹⁰	4.40 ²⁶
8	4.49 ⁰	52.37 ²⁹	48.78 ³²	30.72 ²⁷	48.42 ¹⁰	4.66 ²⁴
9	4.49 ¹	52.66 ²⁸	49.10 ³⁶	30.99 ²⁷	48.52 ¹¹	4.90 ²³
10	4.50 ²	52.94 ³⁰	49.46 ⁴⁰	31.26 ²⁶	48.63 ¹⁰	5.13 ²²
11	4.52 ⁴	53.24 ³⁰	49.86 ⁴⁵	31.52 ²⁷	48.73 ¹¹	5.35 ²¹
12	4.56 ⁴	53.54 ³¹	50.31 ⁴⁸	31.79 ²⁸	48.84 ¹²	5.56 ²²
13	4.60 ³	53.85 ³³	50.79 ⁵⁰	32.07 ³⁰	48.96 ¹³	5.78 ²⁴
14	4.63 ³	54.18 ³⁵	51.29 ⁴⁸	32.37 ³²	49.09 ¹³	6.02 ²⁵
15	4.66 ¹	54.53 ³⁵	51.77 ⁴⁴	32.69 ³⁴	49.22 ¹¹	6.27 ²⁹
16	4.67 ¹	54.88 ³⁷	52.21 ³⁷	33.03 ³⁵	49.33 ¹²	6.56 ³¹
17	4.66 ⁴	55.25 ³⁷	52.58 ³⁰	33.38 ³⁶	49.45 ¹¹	6.87 ³²
18	4.62 ⁶	55.62 ³⁶	52.88 ²²	33.74 ³⁴	49.56 ¹⁰	7.19 ³²
19	4.56 ⁹	55.98 ³³	53.10 ¹⁴	34.08 ³⁴	49.66 ⁹	7.51 ³²
20	4.47 ⁸	56.31 ³²	53.24 ⁹	34.42 ³²	49.75 ⁸	7.83 ³⁰
21	4.39 ⁹	56.63 ³⁰	53.33 ⁷	34.74 ³¹	49.83 ⁷	8.13 ²⁹
22	4.30 ⁷	56.93 ²⁹	53.40 ⁸	35.05 ³⁰	49.90 ⁷	8.42 ²⁸
23	4.23 ⁷	57.22 ²⁸	53.48 ¹¹	35.35 ²⁸	49.97 ⁸	8.70 ²⁷
24	4.16 ⁶	57.50 ²⁹	53.59 ¹⁵	35.63 ²⁸	50.05 ⁸	8.97 ²⁷
25	4.10 ⁵	57.79 ²⁹	53.74 ¹⁸	35.91 ³⁰	50.13 ⁸	9.24 ²⁷
26	4.05 ⁵	58.08 ³¹	53.92 ²⁰	36.21 ³¹	50.21 ⁹	9.51 ²⁸
27	4.00 ⁶	58.39 ³³	54.12 ¹⁹	36.52 ³³	50.30 ¹⁰	9.79 ³⁰
28	3.94 ⁷	58.72 ³⁵	54.31 ¹⁷	36.85 ³⁴	50.40 ⁹	10.09 ³²
29	3.87 ¹⁰	59.07 ³⁵	54.48 ¹⁰	37.19 ³⁶	50.49 ⁸	10.41 ³⁴
30	3.77 ¹²	59.42 ³⁶	54.58 ²	37.55 ³⁷	50.57 ⁸	10.75 ³⁵
Juli 1	3.65 ¹⁵	59.78 ³⁶	54.60 ⁶	37.92 ³⁸	50.65 ⁷	11.10 ³⁷
2	3.50 ¹⁶	60.14 ³³	54.54 ¹⁴	38.30 ³⁷	50.72 ⁶	11.47 ³⁷
3	3.34	60.47	54.40	38.67	50.78	11.84 ³⁷
O. C.	+ 0°.36 cos φ		+ 1°.22 cos φ		+ 0°.16 cos φ	
U. C.	- 0°.36 cos φ		- 1°.22 cos φ		- 0°.16 cos φ	

Obere Culmination.

1902	δ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .4.		76 Draconis. 6 ^m .0.		
	AR.	Decl.	AR.	Decl.	AR.	Decl.	
	18 ^h 3 ^m	+86° 37'	19 ^h 20 ^m	+88° 59'	20 ^h 49 ^m	+82° 10'	
Juli	3	63.34 ¹⁷	0.47 ³²	54.40 ²¹	38.67 ³⁵	50.78 ⁴	11.84 ³⁶
	4	63.17 ¹⁹	0.79 ²⁹	54.19 ²⁴	39.02 ³³	50.82 ⁴	12.20 ³⁴
	5	62.98 ¹⁹	1.08 ²⁹	53.95 ²⁵	39.35 ³¹	50.86 ⁴	12.54 ³⁴
	6	62.79 ¹⁷	1.37 ²⁷	53.70 ²³	39.66 ³⁰	50.90 ⁴	12.88 ³⁴
	7	62.62 ¹⁵	1.64 ²⁷	53.47 ¹⁹	39.96 ²⁹	50.94 ⁴	13.19 ³⁰
	8	62.47 ¹⁴	1.91 ²⁷	53.28 ¹⁴	40.25 ³⁰	50.98 ⁵	13.49 ³⁰
	9	62.33 ¹⁴	2.18 ²⁸	53.14 ¹⁰	40.55 ³¹	51.03 ⁶	13.79 ³¹
	10	62.19 ¹³	2.46 ²⁹	53.04 ⁸	40.86 ³¹	51.09 ⁵	14.10 ³¹
	11	62.06 ¹⁴	2.75 ³²	52.96 ⁸	41.17 ³³	51.14 ⁶	14.41 ³³
	12	61.92 ¹⁵	3.07 ³²	52.88 ¹¹	41.50 ³⁵	51.20 ⁶	14.74 ³⁵
	13	61.77 ¹⁷	3.39 ³⁴	52.77 ¹⁷	41.85 ³⁶	51.26 ⁵	15.09 ³⁷
	14	61.60 ²⁰	3.73 ³³	52.60 ²⁴	42.21 ³⁷	51.31 ⁴	15.46 ³⁸
	15	61.40 ²²	4.06 ³²	52.36 ³³	42.58 ³⁷	51.35 ⁴	15.84 ³⁸
	16	61.18 ²³	4.38 ³⁰	52.03 ⁴²	42.95 ³⁵	51.39 ²	16.22 ³⁸
	17	60.95 ²⁵	4.68 ²⁹	51.61 ⁴⁶	43.30 ³⁴	51.41 ²	16.60 ³⁷
	18	60.70 ²⁵	4.97 ²⁶	51.15 ⁴⁹	43.64 ³²	51.43 ¹	16.97 ³⁶
	19	60.45 ²⁴	5.23 ²⁵	50.66 ⁴⁹	43.96 ³⁰	51.44 ⁰	17.33 ³⁴
	20	60.21 ²³	5.48 ²⁴	50.17 ⁴⁸	44.26 ²⁹	51.44 ¹	17.67 ³³
	21	59.98 ²³	5.72 ²³	49.69 ⁴⁴	44.55 ²⁹	51.45 ¹	18.00 ³²
	22	59.75 ²¹	5.95 ²⁴	49.25 ³⁹	44.84 ²⁹	51.46 ²	18.32 ³¹
	23	59.54 ²¹	6.19 ²⁵	48.86 ³⁷	45.13 ³⁰	51.48 ²	18.63 ³²
	24	59.33 ²¹	6.44 ²⁷	48.49 ³⁷	45.43 ³¹	51.50 ²	18.95 ³⁴
	25	59.12 ²²	6.71 ²⁸	48.12 ³⁸	45.74 ³²	51.52 ²	19.29 ³⁶
	26	58.90 ²⁵	6.99 ²⁹	47.74 ⁴³	46.06 ³⁵	51.54 ²	19.65 ³⁸
	27	58.65 ²⁷	7.28 ³⁰	47.31 ⁵⁰	46.41 ³⁶	51.56 ¹	20.03 ³⁹
	28	58.38 ²⁸	7.58 ²⁹	46.81 ⁵⁹	46.77 ³⁶	51.57 ⁰	20.42 ³⁹
	29	58.10 ³¹	7.87 ²⁷	46.22 ⁶⁷	47.13 ³⁵	51.57 ¹	20.81 ⁴⁰
	30	57.79 ³²	8.14 ²⁶	45.55 ⁷⁴	47.48 ³³	51.56 ²	21.21 ³⁹
	31	57.47 ³⁴	8.40 ²⁴	44.81 ⁷⁹	47.81 ³²	51.54 ²	21.60 ³⁹
Aug.	1	57.13 ³³	8.64 ²²	44.02 ⁸⁰	48.13 ³⁰	51.52 ³	21.99 ³⁶
	2	56.80 ³²	8.86 ²¹	43.22 ⁷⁹	48.43 ²⁸	51.49 ⁴	22.35 ³⁵
	3	56.48 ³¹	9.07 ¹⁹	42.43 ⁷⁵	48.71 ²⁷	51.45 ³	22.70 ³³
	4	56.17 ²⁸	9.26 ¹⁹	41.68 ⁷⁰	48.98 ²⁶	51.42 ³	23.03 ³³
	5	55.89 ²⁸	9.45 ²⁰	40.98 ⁶⁵	49.24 ²⁷	51.39 ²	23.36 ³²
	6	55.61 ²⁷	9.65 ²¹	40.33 ⁶²	49.51 ²⁸	51.37 ²	23.68 ³³
	7	55.34 ²⁷	9.86 ²²	39.71 ⁶¹	49.79 ²⁹	51.35 ¹	24.01 ³⁴
	8	55.07 ²⁸	10.08 ²⁴	39.10 ⁶³	50.08 ³¹	51.34 ¹	24.35 ³⁶
	9	54.79	10.32	38.47	50.39	51.33	24.71
O. C.		+ 0°.36 cos φ		+ 1°.22 cos φ		+ 0°.16 cos φ	
U. C.		- 0.36 cos φ		- 1.22 cos φ		- 0.16 cos φ	

Obere Culmination.

1902	δ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .4.		76 Draconis. 6 ^m .0.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	18 ^h 3 ^m	+86° 37'	19 ^h 19 ^m	+88° 59'	20 ^h 49 ^m	+82° 10'
Aug. 9	54.78 ^a ₃₁	10.32 ^a ₂₅	98.47 ^a ₆₇	50.39 ^a ₃₂	51.33 ^a ₁	24.71 ^a ₃₇
10	54.48 ^a ₃₃	10.57 ^a ₂₅	97.80 ^a ₇₄	50.71 ^a ₃₃	51.32 ^a ₃	25.08 ^a ₃₉
11	54.15 ^a ₃₄	10.82 ^a ₂₄	97.06 ^a ₈₂	51.04 ^a ₃₃	51.29 ^a ₃	25.47 ^a ₃₉
12	53.81 ^a ₃₅	11.06 ^a ₂₂	96.24 ^a ₉₀	51.37 ^a ₃₁	51.26 ^a ₃	25.86 ^a ₃₉
13	53.46 ^a ₃₇	11.28 ^a ₂₁	95.34 ^a ₉₆	51.68 ^a ₂₉	51.22 ^a ₄	26.25 ^a ₃₈
14	53.09 ^a ₃₈	11.49 ^a ₁₈	94.38 ^a ₉₉	51.97 ^a ₂₈	51.17 ^a ₇	26.63 ^a ₃₆
15	52.71 ^a ₃₈	11.67 ^a ₁₆	93.39 ^a ₁₀₁	52.25 ^a ₂₆	51.10 ^a ₆	26.99 ^a ₃₅
16	52.33 ^a ₃₆	11.83 ^a ₁₄	92.38 ^a ₉₉	52.51 ^a ₂₄	51.04 ^a ₇	27.34 ^a ₃₃
17	51.97 ^a ₃₄	11.97 ^a ₁₄	91.39 ^a ₉₄	52.75 ^a ₂₃	50.97 ^a ₆	27.67 ^a ₃₁
18	51.63 ^a ₃₄	12.11 ^a ₁₅	90.45 ^a ₉₁	52.98 ^a ₂₃	50.91 ^a ₆	27.98 ^a ₃₁
19	51.29 ^a ₃₂	12.26 ^a ₁₅	89.54 ^a ₈₇	53.21 ^a ₂₄	50.85 ^a ₆	28.29 ^a ₃₁
20	50.97 ^a ₃₂	12.41 ^a ₁₆	88.67 ^a ₈₅	53.45 ^a ₂₅	50.79 ^a ₅	28.60 ^a ₃₂
21	50.65 ^a ₃₃	12.57 ^a ₁₈	87.82 ^a ₈₅	53.70 ^a ₂₆	50.74 ^a ₄	28.92 ^a ₃₃
22	50.32 ^a ₃₅	12.75 ^a ₁₉	86.97 ^a ₈₈	53.96 ^a ₂₇	50.70 ^a ₅	29.25 ^a ₃₅
23	49.97 ^a ₃₇	12.94 ^a ₁₈	86.09 ^a ₉₅	54.23 ^a ₂₉	50.65 ^a ₆	29.60 ^a ₃₆
24	49.60 ^a ₃₉	13.12 ^a ₁₉	85.14 ^a ₁₀₂	54.52 ^a ₂₉	50.59 ^a ₆	29.96 ^a ₃₈
25	49.21 ^a ₄₁	13.31 ^a ₁₇	84.12 ^a ₁₁₀	54.81 ^a ₂₉	50.53 ^a ₇	30.34 ^a ₃₇
26	48.80 ^a ₄₂	13.48 ^a ₁₆	83.02 ^a ₁₁₇	55.10 ^a ₂₇	50.46 ^a ₈	30.71 ^a ₃₈
27	48.38 ^a ₄₃	13.64 ^a ₁₄	81.85 ^a ₁₂₂	55.37 ^a ₂₆	50.38 ^a ₉	31.09 ^a ₃₇
28	47.95 ^a ₄₄	13.78 ^a ₁₂	80.63 ^a ₁₂₅	55.63 ^a ₂₄	50.29 ^a ₁₀	31.46 ^a ₃₄
29	47.51 ^a ₄₂	13.90 ^a ₁₀	79.38 ^a ₁₂₄	55.87 ^a ₂₁	50.19 ^a ₁₀	31.80 ^a ₃₃
30	47.09 ^a ₄₀	14.00 ^a ₉	78.14 ^a ₁₂₀	56.08 ^a ₁₉	50.09 ^a ₁₀	32.13 ^a ₃₁
31	46.69 ^a ₃₉	14.09 ^a ₈	76.94 ^a ₁₁₆	56.27 ^a ₁₉	49.99 ^a ₁₀	32.44 ^a ₂₉
Sept. 1	46.30 ^a ₃₈	14.17 ^a ₈	75.78 ^a ₁₁₁	56.46 ^a ₁₉	49.89 ^a ₉	32.73 ^a ₂₉
2	45.92 ^a ₃₆	14.25 ^a ₉	74.67 ^a ₁₀₆	56.65 ^a ₁₉	49.80 ^a ₈	33.02 ^a ₂₈
3	45.56 ^a ₃₆	14.34 ^a ₁₁	73.61 ^a ₁₀₃	56.84 ^a ₂₀	49.72 ^a ₈	33.30 ^a ₃₀
4	45.20 ^a ₃₆	14.45 ^a ₁₂	72.58 ^a ₁₀₂	57.04 ^a ₂₂	49.64 ^a ₇	33.60 ^a ₃₁
5	44.84 ^a ₃₇	14.57 ^a ₁₃	71.56 ^a ₁₀₆	57.26 ^a ₂₃	49.57 ^a ₈	33.91 ^a ₃₃
6	44.47 ^a ₄₀	14.70 ^a ₁₃	70.50 ^a ₁₁₁	57.49 ^a ₂₃	49.49 ^a ₈	34.24 ^a ₃₄
7	44.07 ^a ₄₁	14.83 ^a ₁₃	69.39 ^a ₁₁₈	57.72 ^a ₂₅	49.41 ^a ₉	34.58 ^a ₃₅
8	43.66 ^a ₄₃	14.96 ^a ₁₁	68.21 ^a ₁₂₅	57.97 ^a ₂₄	49.32 ^a ₁₁	34.93 ^a ₃₄
9	43.23 ^a ₄₅	15.07 ^a ₉	66.96 ^a ₁₃₁	58.21 ^a ₂₂	49.21 ^a ₁₁	35.27 ^a ₃₃
10	42.78 ^a ₄₅	15.16 ^a ₇	65.65 ^a ₁₃₆	58.43 ^a ₁₉	49.10 ^a ₁₂	35.60 ^a ₃₂
11	42.33 ^a ₄₄	15.23 ^a ₅	64.29 ^a ₁₃₉	58.62 ^a ₁₇	48.98 ^a ₁₃	35.92 ^a ₂₉
12	41.89 ^a ₄₃	15.28 ^a ₃	62.90 ^a ₁₃₆	58.79 ^a ₁₅	48.85 ^a ₁₃	36.21 ^a ₂₈
13	41.46 ^a ₄₂	15.31 ^a ₂	61.54 ^a ₁₃₁	58.94 ^a ₁₃	48.72 ^a ₁₃	36.49 ^a ₂₆
14	41.04 ^a ₄₁	15.33 ^a ₁	60.23 ^a ₁₂₇	59.07 ^a ₁₃	48.59 ^a ₁₂	36.75 ^a ₂₅
15	40.63 ^a	15.34 ^a	58.96 ^a	59.20 ^a	48.47 ^a	37.00 ^a
O. C.	+ 0°.36 cos φ		+ 1°.22 cos φ		+ 0°.16 cos φ	
U. C.	- 0.36 cos φ		- 1.22 cos φ		- 0.16 cos φ	

Obere Culmination.

1902	♁ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .4.		76 Draconis. 6 ^m .0.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	18 ^h 3 ^m	+86° 37'	19 ^h 19 ^m	+88° 59'	20 ^h 49 ^m	+82° 10'
Sept. 15	40.63 ³⁹	15.34 ²	58.96 ¹²³	59.20 ¹³	48.47 ¹¹	37.00 ²⁴
16	40.24 ³⁸	15.36 ³	57.73 ¹²⁰	59.33 ¹⁵	48.36 ¹¹	37.24 ²⁵
17	39.86 ³⁸	15.39 ⁵	56.53 ¹¹⁸	59.48 ¹⁵	48.25 ¹⁰	37.49 ²⁵
18	39.48 ³⁹	15.44 ⁶	55.35 ¹¹⁹	59.63 ¹⁷	48.15 ¹¹	37.74 ²⁷
19	39.09 ⁴⁰	15.50 ⁷	54.16 ¹²⁴	59.80 ¹⁸	48.04 ¹¹	38.01 ²⁹
20	38.69 ⁴³	15.57 ⁶	52.92 ¹³⁰	59.98 ¹⁹	47.93 ¹²	38.30 ³⁰
21	38.26 ⁴⁵	15.63 ⁵	51.62 ¹³⁷	60.17 ¹⁸	47.81 ¹³	38.60 ³¹
22	37.81 ⁴⁶	15.68 ⁴	50.25 ¹⁴⁴	60.35 ¹⁷	47.68 ¹³	38.91 ³⁰
23	37.35 ⁴⁷	15.72 ²	48.81 ¹⁵⁰	60.52 ¹⁵	47.55 ¹⁴	39.21 ²⁹
24	36.88 ⁴⁸	15.74 ¹	47.31 ¹⁵³	60.67 ¹⁴	47.41 ¹⁵	39.50 ²⁷
25	36.40 ⁴⁶	15.73 ³	45.78 ¹⁵²	60.81 ¹¹	47.26 ¹⁶	39.77 ²⁵
26	35.94 ⁴⁵	15.70 ³	44.26 ¹⁵⁰	60.92 ⁹	47.10 ¹⁵	40.02 ²³
27	35.49 ⁴³	15.67 ⁵	42.76 ¹⁴⁴	61.01 ⁷	46.95 ¹⁵	40.25 ²²
28	35.06 ⁴¹	15.62 ⁶	41.32 ¹³⁸	61.08 ⁷	46.80 ¹⁵	40.47 ²⁰
29	34.65 ³⁹	15.56 ⁴	39.94 ¹³²	61.15 ⁸	46.65 ¹⁴	40.67 ¹⁹
30	34.26 ³⁸	15.52 ⁴	38.62 ¹²⁷	61.23 ⁸	46.51 ¹²	40.86 ²⁰
Oct. 1	33.88 ³⁸	15.48 ²	37.35 ¹²⁷	61.31 ⁹	46.39 ¹³	41.06 ²¹
2	33.50 ⁴⁰	15.46 ¹	36.08 ¹²⁷	61.40 ¹¹	46.26 ¹³	41.27 ²²
3	33.10 ⁴⁰	15.45 ⁰	34.81 ¹³⁰	61.51 ¹²	46.13 ¹³	41.49 ²³
4	32.70 ⁴³	15.45 ¹	33.51 ¹³⁷	61.63 ¹²	46.00 ¹⁴	41.72 ²⁵
5	32.27 ⁴⁴	15.44 ²	32.14 ¹⁴⁴	61.75 ¹⁰	45.86 ¹⁴	41.97 ²⁵
6	31.83 ⁴⁵	15.42 ³	30.70 ¹⁵⁰	61.85 ¹⁰	45.72 ¹⁶	42.22 ²³
7	31.38 ⁴⁶	15.39 ⁵	29.20 ¹⁵³	61.95 ⁸	45.56 ¹⁶	42.45 ²²
8	30.92 ⁴⁵	15.34 ⁸	27.67 ¹⁵⁴	62.03 ⁶	45.40 ¹⁶	42.67 ²⁰
9	30.47 ⁴⁴	15.26 ¹⁰	26.13 ¹⁵⁴	62.09 ³	45.24 ¹⁸	42.87 ¹⁸
10	30.03 ⁴²	15.16 ¹¹	24.59 ¹⁵¹	62.12 ¹	45.06 ¹⁶	43.05 ¹⁶
11	29.61 ⁴¹	15.05 ¹²	23.08 ¹⁴⁵	62.13 ¹	44.90 ¹⁷	43.21 ¹⁵
12	29.20 ³⁸	14.93 ¹²	21.63 ¹³⁸	62.14 ⁰	44.73 ¹⁶	43.36 ¹⁴
13	28.82 ³⁷	14.81 ¹¹	20.25 ¹³⁴	62.14 ¹	44.57 ¹⁵	43.50 ¹³
14	28.45 ³⁷	14.70 ¹⁰	18.91 ¹³¹	62.15 ²	44.42 ¹⁵	43.63 ¹⁴
15	28.08 ³⁸	14.60 ⁹	17.60 ¹³⁰	62.17 ³	44.27 ¹⁴	43.77 ¹⁵
16	27.70 ³⁸	14.51 ⁷	16.30 ¹³³	62.20 ⁴	44.13 ¹⁴	43.92 ¹⁶
17	27.32 ⁴⁰	14.44 ⁷	14.97 ¹³⁸	62.24 ⁵	43.99 ¹⁵	44.08 ¹⁸
18	26.92 ⁴²	14.37 ⁸	13.59 ¹⁴⁵	62.29 ⁵	43.84 ¹⁶	44.26 ¹⁸
19	26.50 ⁴³	14.29 ⁹	12.14 ¹⁵¹	62.34 ⁵	43.68 ¹⁶	44.44 ¹⁸
20	26.07 ⁴⁴	14.20 ¹⁰	10.63 ¹⁵⁶	62.39 ²	43.52 ¹⁷	44.62 ¹⁸
21	25.63 ⁴⁵	14.10 ¹³	9.07 ¹⁵⁸	62.41 ¹	43.35 ¹⁸	44.80 ¹⁶
22	25.18	13.97	7.49	62.42	43.17	44.96
O. C.	+ 0°.36 cos φ		+ 1°.23 cos φ		+ 0°.16 cos φ	
U. C.	- 0.36 cos φ		- 1.23 cos φ		- 0.16 cos φ	

Obere Culmination.

1902	δ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .4.		76 Draconis. 6 ^m .0.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	18 ^h 3 ^m	+86° 37'	19 ^h 18 ^m	+88° 59'	20 ^h 49 ^m	+82° 10'
Oct. 22	25.18	13.97	67.49	62.42	43.17	44.96
23	24.75 ⁴³	13.81 ¹⁶	65.90 ¹⁵⁹	62.40 ²	42.98 ¹⁹	45.09 ¹³
24	24.33 ⁴²	13.63 ¹⁸	64.33 ¹⁵⁷	62.36 ⁴	42.80 ¹⁸	45.20 ¹¹
25	23.93 ⁴⁰	13.45 ¹⁸	62.82 ¹⁵¹	62.30 ⁶	42.61 ¹⁹	45.30 ¹⁰
26	23.55 ³⁸	13.27 ¹⁸	61.37 ¹⁴⁵	62.24 ⁶	42.43 ¹⁸	45.38 ⁸
27	23.20 ³⁵	13.08 ¹⁹	60.00 ¹³⁷	62.17 ⁷	42.26 ¹⁷	45.45 ⁷
28	22.86 ³⁴	12.89 ¹⁹	58.68 ¹³²	62.11 ⁶	42.10 ¹⁶	45.52 ⁷
29	22.52 ³⁴	12.73 ¹⁶	57.41 ¹²⁷	62.06 ⁵	41.95 ¹⁵	45.59 ⁷
30	22.19 ³³	12.59 ¹⁴	56.15 ¹²⁶	62.02 ⁴	41.79 ¹⁶	45.67 ⁸
31	21.84 ³⁵	12.45 ¹⁴	54.87 ¹²⁸	61.99 ³	41.64 ¹⁵	45.77 ¹⁰
Nov. 1	21.48 ³⁶	12.31 ¹⁴	53.55 ¹³²	61.96 ³	41.49 ¹⁵	45.87 ¹⁰
2	21.11 ³⁷	12.17 ¹⁴	52.17 ¹³⁸	61.94 ²	41.33 ¹⁶	45.97 ¹⁰
3	20.73 ³⁸	12.01 ¹⁶	50.73 ¹⁴⁴	61.94 ⁴	41.33 ¹⁷	45.97 ⁹
4	20.34 ³⁹	11.83 ¹⁸	49.26 ¹⁴⁷	61.90 ⁵	41.16 ¹⁸	46.06 ⁸
5	19.96 ³⁸	11.62 ²¹	47.77 ¹⁴⁹	61.85 ⁷	40.98 ¹⁹	46.14 ⁷
6	19.59 ³⁷	11.40 ²²	46.30 ¹⁴⁷	61.78 ¹¹	40.79 ¹⁸	46.21 ⁵
7	19.24 ³⁵	11.16 ²⁴	44.86 ¹⁴⁴	61.67 ¹²	40.61 ¹⁹	46.26 ³
8	18.91 ³³	10.91 ²⁵	43.47 ¹³⁹	61.55 ¹⁴	40.42 ¹⁸	46.29 ¹
9	18.60 ³¹	10.67 ²⁴	42.14 ¹³³	61.41 ¹⁴	40.24 ¹⁷	46.30 ¹
10	18.30 ³⁰	10.42 ²⁵	40.89 ¹²⁵	61.27 ¹³	40.07 ¹⁷	46.29 ¹
11	18.01 ²⁹	10.19 ²³	39.69 ¹²⁰	61.14 ¹³	39.90 ¹⁶	46.26 ²
12	17.73 ²⁸	9.98 ²¹	38.51 ¹¹⁸	61.01 ¹²	39.74 ¹⁵	46.24 ⁰
13	17.44 ²⁹	9.78 ²⁰	37.33 ¹¹⁸	60.89 ¹¹	39.59 ¹⁵	46.24 ¹
14	17.14 ³⁰	9.58 ²⁰	36.12 ¹²¹	60.78 ¹⁰	39.44 ¹⁶	46.25 ³
15	16.82 ³²	9.37 ²¹	34.86 ¹²⁶	60.68 ⁹	39.28 ¹⁶	46.28 ⁴
16	16.50 ³²	9.16 ²¹	33.54 ¹³²	60.59 ¹⁰	39.12 ¹⁷	46.32 ³
17	16.16 ³⁴	8.94 ²²	32.17 ¹³⁷	60.49 ¹⁰	38.95 ¹⁷	46.35 ²
18	15.82 ³⁴	8.70 ²⁴	30.77 ¹⁴⁰	60.39 ¹³	38.78 ¹⁸	46.37 ¹
19	15.49 ³³	8.43 ²⁷	29.37 ¹⁴⁰	60.26 ¹⁵	38.60 ¹⁹	46.38 ¹
20	15.17 ³²	8.15 ²⁸	27.99 ¹³⁸	60.11 ¹⁸	38.41 ²⁰	46.37 ⁴
21	14.88 ²⁹	7.85 ³⁰	26.66 ¹³³	59.93 ¹⁹	38.21 ¹⁹	46.33 ⁶
22	14.61 ²⁷	7.55 ³⁰	25.40 ¹²⁶	59.74 ²¹	38.02 ¹⁸	46.27 ⁸
23	14.36 ²⁵	7.25 ³⁰	24.23 ¹¹⁷	59.53 ²⁰	37.84 ¹⁶	46.19 ⁹
24	14.13 ²³	6.96 ²⁹	23.14 ¹⁰⁹	59.33 ²¹	37.68 ¹⁵	46.10 ⁹
25	13.91 ²²	6.68 ²⁸	22.11 ¹⁰³	59.12 ²⁰	37.53 ¹⁵	46.01 ⁹
26	13.70 ²¹	6.42 ²⁶	21.10 ¹⁰¹	58.92 ¹⁸	37.38 ¹⁴	45.92 ⁸
27	13.49 ²¹	6.17 ²⁵	20.09 ¹⁰¹	58.74 ¹⁷	37.24 ¹⁴	45.84 ⁶
28	13.27 ²²	5.92 ²⁵	19.06 ¹⁰³	58.57 ¹⁶	37.10 ¹⁵	45.78 ⁶
				58.41	36.95	45.72
O. C.	+ 0°.36 cos φ		+ 1°.23 cos φ		+ 0°.16 cos φ	
U. C.	- 0°.36 cos φ		- 1°.23 cos φ		- 0°.16 cos φ	

Obere Culmination.

1902	♁ Ursae minoris. 4 ^m .3.		λ Ursae minoris. 6 ^m .4.		76 Draconis. 6 ^m .0.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.
	18 ^h 3 ^m	+86° 36'	19 ^h 17 ^m	+88° 59'	20 ^h 49 ^m	+82° 10'
Nov. 28	13.27 ²³	65.92 ²⁵	79.06 ¹⁰⁷	58.41 ¹⁶	36.95 ¹⁵	45.72 ⁶
29	13.04 ²⁴	65.67 ²⁷	77.99 ¹¹¹	58.25 ¹⁷	36.80 ¹⁵	45.66 ⁶
30	12.80 ²⁵	65.40 ²⁸	76.88 ¹¹⁵	58.08 ¹⁸	36.65 ¹⁷	45.60 ⁷
Dec. 1	12.55 ²⁵	65.12 ²⁹	75.73 ¹¹⁷	57.90 ²¹	36.48 ¹⁷	45.53 ⁹
2	12.30 ²⁴	64.83 ³²	74.56 ¹¹⁵	57.69 ²³	36.31 ¹⁸	45.44 ¹¹
3	12.06 ²²	64.51 ³³	73.41 ¹¹²	57.46 ²⁵	36.13 ¹⁶	45.33 ¹³
4	11.84 ¹⁹	64.18 ³⁴	72.29 ¹⁰⁷	57.21 ²⁶	35.97 ¹⁶	45.20 ¹⁴
5	11.65 ¹⁷	63.84 ³⁵	71.22 ⁹⁹	56.95 ²⁷	35.81 ¹⁶	45.06 ¹⁶
6	11.48 ¹⁵	63.49 ³⁴	70.23 ⁹¹	56.68 ²⁷	35.65 ¹⁵	44.90 ¹⁷
7	11.33 ¹⁴	63.15 ³³	69.32 ⁸⁴	56.41 ²⁶	35.50 ¹⁴	44.73 ¹⁸
8	11.19 ¹²	62.82 ³¹	68.48 ⁸⁰	56.15 ²⁶	35.36 ¹³	44.55 ¹⁶
9	11.07 ¹³	62.51 ³⁰	67.68 ⁷⁹	55.89 ²⁴	35.23 ¹³	44.39 ¹⁵
10	10.94 ¹³	62.21 ²⁹	66.89 ⁷⁹	55.65 ²²	35.10 ¹²	44.24 ¹⁴
11	10.81 ¹⁵	61.92 ²⁸	66.10 ⁸²	55.43 ²¹	34.98 ¹⁴	44.10 ¹³
12	10.66 ¹⁶	61.64 ²⁸	65.28 ⁸⁷	55.22 ²²	34.84 ¹⁴	43.97 ¹²
13	10.50 ¹⁷	61.36 ³⁰	64.41 ⁹²	55.00 ²³	34.70 ¹⁴	43.85 ¹³
14	10.33 ¹⁷	61.06 ³¹	63.49 ⁹⁵	54.77 ²⁴	34.56 ¹⁵	43.72 ¹⁴
15	10.16 ¹⁶	60.75 ³⁴	62.54 ⁹⁶	54.53 ²⁶	34.41 ¹⁶	43.58 ¹⁶
16	10.00 ¹⁶	60.41 ³⁵	61.58 ⁹³	54.27 ²⁸	34.25 ¹⁵	43.42 ¹⁸
17	9.84 ¹³	60.06 ³⁷	60.65 ⁸⁸	53.99 ³¹	34.10 ¹⁵	43.24 ²⁰
18	9.71 ¹¹	59.69 ³⁶	59.77 ⁸¹	53.68 ³¹	33.95 ¹⁴	43.04 ²³
19	9.60 ⁸	59.33 ³⁸	58.96 ⁷²	53.37 ³²	33.81 ¹⁴	42.81 ²³
20	9.52 ⁵	58.95 ³⁶	58.24 ⁶³	53.05 ³²	33.67 ¹³	42.58 ²⁵
21	9.47 ⁴	58.59 ³⁵	57.61 ⁵⁶	52.73 ³¹	33.54 ¹¹	42.33 ²⁴
22	9.43 ³	58.24 ³²	57.05 ⁵¹	52.42 ³⁰	33.43 ¹⁰	42.09 ²³
23	{ 9.40 ³	{ 57.92 ³¹	56.54 ⁴⁸	52.12 ²⁸	33.33 ¹⁰	41.86 ²²
	{ 9.37 ⁴	{ 57.61 ³¹				
24	9.33 ⁴	57.30 ³⁰	56.06 ⁴⁹	51.84 ²⁷	33.23 ¹⁰	41.64 ²¹
25	9.29 ⁵	57.00 ³⁰	55.57 ⁵²	51.57 ²⁶	33.13 ¹⁰	41.43 ²⁰
26	9.24 ⁶	56.70 ³²	55.05 ⁵⁵	51.31 ²⁶	33.03 ¹¹	41.23 ²⁰
27	9.18 ⁷	56.38 ³³	54.50 ⁵⁹	51.05 ²⁷	32.92 ¹¹	41.03 ²⁰
28	9.11 ⁵	56.05 ³⁵	53.91 ⁶¹	50.78 ²⁹	32.81 ¹²	40.83 ²²
29	9.06 ³	55.70 ³⁷	53.30 ⁶¹	50.49 ³¹	32.69 ¹²	40.61 ²⁵
30	9.03 ¹	55.33 ³⁸	52.69 ⁵⁷	50.18 ³³	32.57 ¹²	40.36 ²⁷
31	9.02 ²	54.95 ³⁸	52.12 ⁵²	49.85 ³⁵	32.45 ¹¹	40.09 ²⁷
32	9.04	54.57	51.60	49.50	32.34	39.82
O. C.	+ 0°.36 cos φ		+ 1°.22 cos φ		+ 0°.16 cos φ	
U. C.	- 0.36 cos φ		- 1.22 cos φ		- 0.16 cos φ	

1902	α Andromed. 2 ^m .0.		β Cassiopej. 2 ^m .I.		γ Pegasi. 2 ^m .6.		ϵ Ceti. 3 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	$0^h 3^m$	$28^\circ 32'$	$0^h 3^m$	$58^\circ 36'$	$0^h 8^m$	$14^\circ 38'$	$0^h 14^m$	$9^\circ 21'$
Jan. 0	19.98 ¹⁴	71.1 ¹⁰	57.83 ³¹	54.1 ⁸	11.97 ¹²	27.6 ⁹	26.55 ¹²	62.7 ⁶
10	19.84 ¹⁴	70.1 ¹²	57.52 ³⁰	53.3 ¹³	11.85 ¹¹	26.7 ¹⁰	26.43 ¹¹	63.3 ⁵
20	19.70 ¹³	68.9 ¹⁵	57.22 ²⁸	52.0 ¹⁷	11.74 ¹¹	25.7 ¹¹	26.32 ¹⁰	63.8 ³
30	19.57 ¹¹	67.4 ¹⁶	56.94 ²⁴	50.3 ²²	11.63 ¹⁰	24.6 ¹¹	26.22 ⁹	64.1 ⁰
Febr. 9	19.46 ⁸	65.8 ¹⁶	56.70 ¹⁹	48.1 ²⁵	11.53 ⁷	23.5 ¹⁰	26.13 ⁷	64.1 ⁰
19	19.38 ⁵	64.2 ¹⁷	56.51 ¹⁴	45.6 ²⁶	11.46 ⁴	22.5 ¹⁰	26.06 ⁵	64.1 ³
März 1	19.33 ¹	62.5 ¹⁷	56.37 ⁶	43.0 ²⁸	11.42 ¹	21.5 ⁹	26.01 ²	63.8 ⁵
11	19.32 ¹	60.8 ¹⁵	56.31 ¹	40.2 ²⁸	11.41 ¹	20.6 ⁷	25.99 ¹	63.3 ⁸
21	19.34 ²	59.3 ¹³	56.32 ¹	37.4 ²⁸	11.43 ²	19.9 ⁴	26.00 ¹	62.5 ¹¹
31	19.42 ¹²	58.0 ⁹	56.42 ¹⁸	34.6 ²³	11.50 ¹⁰	19.5 ²	26.06 ¹⁰	61.4 ¹³
April 10	19.54 ¹⁷	57.1 ⁶	56.60 ²⁵	32.3 ²⁰	11.60 ¹⁵	19.3 ¹	26.16 ¹⁴	60.1 ¹⁵
20	19.71 ²¹	56.5 ³	56.85 ³²	30.3 ¹⁷	11.75 ¹⁹	19.4 ⁵	26.30 ¹⁷	58.6 ¹⁷
30	19.92 ²⁵	56.2 ²	57.17 ³⁸	28.6 ¹¹	11.94 ²³	19.9 ⁸	26.47 ²¹	56.9 ¹⁸
Mai 10	20.17 ²⁸	56.4 ⁵	57.55 ⁴⁴	27.5 ⁷	12.17 ²⁶	20.7 ¹¹	26.68 ²⁵	55.1 ²⁰
20	20.45 ³¹	56.9 ⁹	57.99 ⁴⁷	26.8 ¹	12.43 ²⁸	21.8 ¹³	26.93 ²⁷	53.1 ²¹
30	20.76 ³³	57.8 ¹³	58.46 ⁵⁰	26.7 ⁵	12.71 ³⁰	23.1 ¹⁶	27.20 ²⁹	51.0 ²¹
Juni 9	21.09 ³³	59.1 ¹⁶	58.96 ⁵⁰	27.2 ⁹	13.01 ³¹	24.7 ¹⁸	27.49 ³⁰	48.9 ²⁰
19	21.42 ³⁴	60.7 ¹⁹	59.46 ⁵⁰	28.1 ¹⁵	13.32 ³²	26.5 ²⁰	27.79 ³¹	46.9 ²⁰
29	21.76 ³³	62.6 ²¹	59.96 ⁴⁹	29.6 ¹⁹	13.64 ³¹	28.5 ²¹	28.10 ³¹	44.9 ¹⁸
Juli 9	22.09 ³¹	64.7 ²³	60.45 ⁴⁶	31.5 ²²	13.95 ³⁰	30.6 ²¹	28.41 ²⁹	43.1 ¹⁷
19	22.40 ²⁹	67.0 ²⁴	60.91 ⁴²	33.7 ²⁶	14.25 ²⁷	32.7 ²¹	28.70 ²⁷	41.4 ¹⁴
29	22.69 ²⁵	69.4 ²⁵	61.33 ³⁷	36.3 ²⁹	14.52 ²⁴	34.8 ²¹	28.97 ²⁵	40.0 ¹²
Aug. 8	22.94 ²²	71.9 ²⁴	61.70 ³²	39.2 ³¹	14.76 ²¹	36.9 ¹⁹	29.22 ²²	38.8 ⁹
18	23.16 ¹⁸	74.3 ²⁴	62.02 ²⁶	42.3 ³³	14.97 ¹⁸	38.8 ¹⁸	29.44 ¹⁸	37.9 ⁶
28	23.34 ¹⁴	76.7 ²³	62.28 ²⁰	45.6 ³³	15.15 ¹³	40.6 ¹⁶	29.62 ¹⁴	37.3 ³
Sept. 7	23.48 ¹⁰	79.0 ²²	62.48 ¹³	48.9 ³⁴	15.28 ¹⁰	42.2 ¹⁴	29.76 ¹¹	37.0 ¹
17	23.58 ⁶	81.2 ²⁰	62.61 ⁷	52.3 ³³	15.38 ⁶	43.6 ¹³	29.87 ⁶	36.9 ²
27	23.64 ²	83.2 ¹⁸	62.68 ¹	55.6 ³²	15.44 ³	44.9 ¹⁰	29.93 ³	37.1 ⁵
Oct. 7	23.66 ¹	85.0 ¹⁵	62.69 ⁵	58.8 ²⁹	15.47 ⁰	45.9 ⁷	29.96 ⁰	37.6 ⁶
17	23.65 ⁵	86.5 ¹³	62.64 ¹⁰	61.7 ²⁷	15.47 ⁴	46.6 ⁶	29.96 ³	38.2 ⁸
27	23.60 ⁷	87.8 ¹⁰	62.54 ¹⁶	64.4 ²⁴	15.43 ⁶	47.2 ³	29.93 ⁶	39.0 ⁹
Nov. 6	23.53 ¹⁰	88.8 ⁸	62.38 ²¹	66.8 ²¹	15.37 ⁸	47.5 ¹	29.87 ⁸	39.9 ¹⁰
16	23.43 ¹¹	89.6 ⁴	62.17 ²⁴	68.9 ¹⁵	15.29 ⁹	47.6 ¹	29.79 ¹⁰	40.9 ¹⁰
26	23.32 ¹³	90.0 ¹	61.93 ²⁷	70.4 ¹¹	15.20 ¹¹	47.5 ³	29.69 ¹⁰	41.9 ⁹
Dec. 6	23.19 ¹⁴	90.1 ²	61.66 ³⁰	71.5 ⁶	15.09 ¹²	47.2 ⁵	29.59 ¹²	42.8 ⁹
16	23.05 ¹⁵	89.9 ⁶	61.36 ³¹	72.1 ⁰	14.97 ¹³	46.7 ⁷	29.47 ¹²	43.7 ⁸
26	22.90 ¹⁵	89.3 ⁸	61.05 ³²	72.1 ⁵	14.84 ¹²	46.0 ⁹	29.35 ¹²	44.5 ⁷
36	22.75	88.5	60.73	71.6	14.72	45.1	29.23	45.2
Mittl. Ort	19.20	58.0	56.63	33.0	11.28	19.4	26.04	62.3
	1)		2)		3)		4)	

1902	12 Ceti. 6 ^m .o.		ζ Cassiopej. 4 ^m .o.		π Andromed. 4 ^m .o.		δ Andromed. 3 ^m .3.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.	AR.	Decl.
	0 ^h 25 ^m	4° 29'	0 ^h 31 ^m	53° 21'	0 ^h 31 ^m	33° 10'	0 ^h 34 ^m	30° 19'
Jan. 0	2.85 ¹²	54.9 ⁷	31.88 ²⁶	46.4 ⁵	39.68 ¹⁶	61.1 ⁷	6.18 ¹⁵	42.2 ⁷
10	2.73 ¹¹	55.6 ⁶	31.62 ²⁶	45.9 ¹⁰	39.52 ¹⁶	60.4 ¹¹	6.03 ¹⁵	41.5 ¹¹
20	2.62 ¹¹	56.2 ⁴	31.36 ²⁵	44.9 ¹⁵	39.36 ¹⁵	59.3 ¹³	5.88 ¹⁵	40.4 ¹³
30	2.51 ¹⁰	56.6 ³	31.11 ²³	43.4 ¹⁸	39.21 ¹⁴	58.0 ¹⁵	5.73 ¹³	39.1 ¹⁴
Febr. 9	2.41 ⁸	56.9 ²	30.88 ¹⁹	41.6 ²²	39.07 ¹²	56.5 ¹⁷	5.60 ¹¹	37.7 ¹⁶
19	2.33 ⁵	57.1 ⁰	30.69 ¹⁵	39.4 ²⁴	38.95 ⁹	54.8 ¹⁸	5.49 ⁸	36.1 ¹⁶
März 1	2.28 ³	57.1 ³	30.54 ⁹	37.0 ²⁵	38.86 ⁵	53.0 ¹⁷	5.41 ⁵	34.5 ¹⁷
11	2.25 ⁰	56.8 ⁵	30.45 ³	34.5 ²⁵	38.81 ⁰	51.3 ¹⁷	5.36 ¹	32.8 ¹⁵
21	2.25 ⁵	56.3 ⁸	30.42 ³	32.0 ²⁷	38.81 ⁴	49.6 ¹⁶	5.35 [—]	31.3 ¹⁴
31	2.30 ⁹	55.5 ⁹	30.47 ¹¹	29.3 ²²	38.85 ⁹	48.0 ¹³	5.39 ⁹	29.9 ¹¹
April 10	2.39 ¹³	54.6 ¹²	30.58 ¹⁸	27.1 ¹⁹	38.94 ¹⁵	46.7 ¹⁰	5.48 ¹⁴	28.8 ⁸
20	2.52 ¹⁶	53.4 ¹⁵	30.76 ²⁶	25.2 ¹⁶	39.09 ¹⁹	45.7 ⁶	5.62 ¹⁸	28.0 ⁵
30	2.68 ²⁰	51.9 ¹⁶	31.02 ³¹	23.6 ¹¹	39.28 ²⁴	45.1 ²	5.80 ²³	27.5 ²
Mai 10	2.88 ²⁴	50.3 ¹⁸	31.33 ³⁶	22.5 ⁷	39.52 ²⁷	44.9 [—]	6.03 ²⁷	27.3 [—]
20	3.12 ²⁷	48.5 ¹⁹	31.69 ⁴⁰	21.8 ²	39.79 ³¹	45.1 ⁵	6.30 ³⁰	27.6 ⁷
30	3.39 ²⁸	46.6 ²⁰	32.09 ⁴⁴	21.6 [—]	40.10 ³³	45.6 ¹⁰	6.60 ³²	28.3 ¹⁰
Juni 9	3.67 ³⁰	44.6 ²¹	32.53 ⁴⁵	21.8 ⁸	40.43 ³⁵	46.6 ¹³	6.92 ³⁴	29.3 ¹⁴
19	3.97 ³¹	42.5 ²⁰	32.98 ⁴⁵	22.6 ¹³	40.78 ³⁵	47.9 ¹⁶	7.26 ³⁴	30.7 ¹⁶
29	4.28 ³⁰	40.5 ¹⁹	33.43 ⁴⁵	23.9 ¹⁶	41.13 ³⁵	49.5 ¹⁹	7.60 ³⁴	32.3 ¹⁹
Juli 9	4.58 ³⁰	38.6 ¹⁸	33.88 ⁴³	25.5 ²⁰	41.48 ³³	51.4 ²¹	7.94 ³³	34.2 ²¹
19	4.88 ²⁸	36.8 ¹⁶	34.31 ⁴¹	27.5 ²⁴	41.81 ³¹	53.5 ²³	8.27 ³¹	36.3 ²²
29	5.16 ²⁵	35.2 ¹⁴	34.72 ³⁷	29.9 ²⁶	42.12 ²⁹	55.8 ²⁴	8.58 ²⁸	38.5 ²⁴
Aug. 8	5.41 ²²	33.8 ¹¹	35.09 ³²	32.5 ²⁹	42.41 ²⁵	58.2 ²⁵	8.86 ²⁵	40.9 ²⁴
18	5.63 ¹⁹	32.7 ⁹	35.41 ²⁸	35.4 ³⁰	42.66 ²²	60.7 ²⁵	9.11 ²¹	43.3 ²³
28	5.82 ¹⁵	31.8 ⁶	35.69 ²²	38.4 ³¹	42.88 ¹⁷	63.2 ²⁴	9.32 ¹⁸	45.6 ²³
Sept. 7	5.97 ¹²	31.2 ³	35.91 ¹⁷	41.5 ³¹	43.05 ¹³	65.6 ²⁴	9.50 ¹³	47.9 ²²
17	6.09 ⁷	30.9 ¹	36.08 ¹²	44.6 ³¹	43.18 ¹⁰	68.0 ²²	9.63 ¹⁰	50.1 ²¹
27	6.16 ⁴	30.8 [—]	36.20 ⁶	47.7 ³⁰	43.28 ⁶	70.2 ²⁰	9.73 ⁶	52.2 ¹⁹
Oct. 7	6.20 ¹	31.0 ⁴	36.26 ⁰	50.7 ²⁸	43.34 ²	72.2 ¹⁹	9.79 ²	54.1 ¹⁷
17	6.21 [—]	31.4 ⁵	36.26 ⁴	53.5 ²⁶	43.36 [—]	74.1 ¹⁶	9.81 ¹	55.8 ¹⁴
27	6.19 ⁵	31.9 ⁷	36.22 ⁸	56.1 ²⁴	43.34 ⁵	75.7 ¹³	9.80 ⁴	57.2 ¹²
Nov. 6	6.14 ⁷	32.6 ⁸	36.14 ¹³	58.5 ²⁰	43.29 ⁷	77.0 ¹¹	9.76 ⁷	58.4 ¹⁰
16	6.07 ⁸	33.4 ⁹	36.01 ¹⁷	60.5 ¹⁶	43.22 ¹⁰	78.1 ⁷	9.69 ⁹	59.4 ⁶
26	5.99 ¹⁰	34.3 ⁸	35.84 ²⁰	62.1 ¹²	43.12 ¹²	78.8 ⁵	9.60 ¹²	60.0 ³
Dec. 6	5.89 ¹¹	35.1 ⁸	35.64 ²³	63.3 ⁷	43.00 ¹⁴	79.3 ⁰	9.48 ¹³	60.3 ⁰
16	5.78 ¹²	35.9 ⁹	35.41 ²⁶	64.0 ²	42.86 ¹⁶	79.3 ²	9.35 ¹⁴	60.3 ³
26	5.66 ¹²	36.8 ⁷	35.15 ²⁶	64.2 [—]	42.70 ¹⁶	79.1 ⁶	9.21 ¹⁶	60.0 ⁶
36	5.54	37.5	34.89	63.9	42.54	78.5	9.05	59.4
Mittl. Ort	2.23	55.8	30.47	27.3	38.63	47.5	5.15	29.5

339)

6)

7)

9)

1902	α Cassiopejæ. 2.2...2 ^m .8.		β Ceti. 2 ^m .0.		2I Cassiopej. 6 ^m .0.		o Cassiopej. 5 ^m .0.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	^h 34 ^m	55° 59'	^h 38 ^m	18° 31'	^h 39 ^m	74° 27'	^h 39 ^m	47° 44'
Jan. 0	57.97	79.2	40.78	33.3	12.77	31.1	16.95	70.2
10	57.68	78.7	40.65	33.9	12.06	31.1	16.73	69.7
20	57.39	77.8	40.52	34.2	11.36	30.4	16.51	68.7
30	57.12	76.4	40.39	34.2	10.68	29.2	16.29	67.3
Febr. 9	56.87	74.5	40.28	34.0	10.06	27.4	16.09	65.6
19	56.65	72.3	40.19	33.5	9.53	25.2	15.92	63.6
März 1	56.49	69.9	40.12	32.7	9.11	22.5	15.79	61.4
11	56.38	67.4	40.07	31.7	8.81	19.6	15.70	59.2
21	56.34	64.8	40.06	30.4	8.66	16.6	15.67	56.9
31	56.38	62.0	40.08	28.9	8.66	13.6	15.70	54.7
April 10	56.49	59.6	40.15	26.9	8.85	10.4	15.80	52.5
20	56.68	57.6	40.26	24.9	9.17	7.7	15.96	50.8
30	56.94	55.9	40.42	22.8	9.63	5.3	16.18	49.4
Mai 10	57.26	54.6	40.61	20.5	10.23	3.3	16.45	48.4
20	57.64	53.7	40.84	18.2	10.93	1.8	16.77	47.9
30	58.07	53.4	41.10	15.9	11.71	0.8	17.13	47.8
Juni 9	58.52	53.6	41.39	13.6	12.56	0.3	17.53	48.2
19	58.99	54.2	41.69	11.4	13.45	0.4	17.94	49.0
29	59.48	55.3	42.01	9.4	14.35	1.1	18.35	50.3
Juli 9	59.95	56.9	42.32	7.6	15.24	2.3	18.76	51.9
19	60.41	58.9	42.63	6.0	16.10	3.9	19.16	53.9
29	60.84	61.2	42.92	4.8	16.91	6.0	19.53	56.2
Aug. 8	61.23	63.8	43.19	3.9	17.65	8.5	19.88	58.8
18	61.58	66.7	43.43	3.3	18.31	11.4	20.18	61.5
28	61.87	69.7	43.64	3.1	18.87	14.6	20.45	64.3
Sept. 7	62.11	72.9	43.81	3.2	19.32	18.0	20.66	67.2
17	62.30	76.0	43.94	3.7	19.67	21.5	20.83	70.1
27	62.43	79.2	44.03	4.5	19.90	25.1	20.95	73.0
Oct. 7	62.50	82.3	44.08	5.5	20.01	28.7	21.02	75.8
17	62.51	85.2	44.10	6.7	20.00	32.3	21.04	78.3
27	62.46	87.9	44.09	8.0	19.88	35.7	21.02	80.7
Nov. 6	62.37	90.4	44.05	9.4	19.64	38.8	20.96	82.8
16	62.24	92.6	43.98	10.8	19.29	41.6	20.87	84.6
26	62.06	94.3	43.89	12.2	18.84	44.1	20.73	86.0
Dec. 6	61.84	95.6	43.78	13.4	18.30	46.0	20.57	87.1
16	61.59	96.5	43.66	14.5	17.69	47.5	20.38	87.7
26	61.32	96.8	43.53	15.4	17.02	48.4	20.17	87.8
36	61.03	96.6	43.39	16.1	16.31	48.7	19.95	87.5
Mittl. Ort	56.44	59.6	40.22	28.9	9.98	8.5	15.59	52.7
	I0)		540)		340)		341)	

1902	ζ Andromed. 4 ^m .I.		γ Cassiopej. 2 ^m .O.		μ Andromed. 4 ^m .O.		ε Piscium. 4 ^m .O.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	0 ^h 42 ^m	23° 44'	0 ^h 50 ^m	60° 11'	0 ^h 51 ^m	37° 58'	0 ^h 57 ^m	7° 21'
Jan. 0	9.50 ¹⁴	13.2 ⁸	49.15 ³³	29.5 ²	20.04 ¹⁸	19.1 ⁵	52.26 ¹²	49.6 ⁷
10	9.36 ¹⁴	12.4 ⁹	48.82 ³⁴	29.3 ⁸	19.86 ¹⁸	18.6 ⁹	52.14 ¹³	48.9 ⁸
20	9.22 ¹³	11.5 ¹¹	48.48 ³³	28.5 ¹²	19.68 ¹⁷	17.7 ¹³	52.01 ¹²	48.1 ⁷
30	9.09 ¹³	10.4 ¹³	48.15 ³¹	27.3 ¹⁷	19.51 ¹⁷	16.4 ¹⁵	51.89 ¹²	47.4 ⁷
Febr. 9	8.96 ¹¹	9.1 ¹³	47.84 ²⁷	25.6 ²¹	19.34 ¹⁴	14.9 ¹⁶	51.77 ¹¹	46.7 ⁷
19	8.85 ⁸	7.8 ¹³	47.57 ²²	23.5 ²³	19.20 ¹¹	13.3 ¹⁹	51.66 ⁸	46.0 ⁶
März 1	8.77 ⁵	6.5 ¹³	47.35 ¹⁵	21.2 ²⁶	19.09 ⁸	11.4 ¹⁹	51.58 ⁶	45.4 ⁴
11	8.72 ¹	5.2 ¹²	47.20 ⁸	18.6 ²⁷	19.01 ⁴	9.5 ¹⁸	51.52 ³	45.0 ²
21	8.71 ²	4.0 ¹⁰	47.12 ⁰	15.9 ²⁷	18.97 ²	7.7 ¹⁷	51.49 ¹	44.8 ⁰
31	8.73 ⁸	3.0 ⁸	47.12 ¹⁰	13.2 ²⁷	18.99 ⁸	6.0 ¹⁷	51.50 ⁶	44.8 ²
April 10	8.81 ¹²	2.2 ⁵	47.22 ¹⁸	10.5 ²³	19.07 ¹²	4.3 ¹³	51.56 ¹⁰	45.0 ⁵
20	8.93 ¹⁷	1.7 ¹	47.40 ²⁶	8.2 ²⁰	19.19 ¹⁸	3.0 ¹⁰	51.66 ¹⁴	45.5 ⁷
30	9.10 ²¹	1.6 ²	47.66 ³³	6.2 ¹⁶	19.37 ²⁴	2.0 ⁵	51.80 ¹⁸	46.2 ¹⁰
Mai 10	9.31 ²⁵	1.8 ⁵	47.99 ⁴⁰	4.6 ¹¹	19.61 ²⁷	1.5 ²	51.98 ²²	47.2 ¹³
20	9.56 ²⁸	2.3 ⁹	48.39 ⁴⁵	3.5 ⁶	19.88 ³¹	1.3 ²	52.20 ²⁵	48.5 ¹⁴
30	9.84 ³¹	3.2 ¹²	48.84 ⁴⁹	2.9 ²	20.19 ³⁴	1.5 ⁶	52.45 ²⁸	49.9 ¹⁷
Juni 9	10.15 ³²	4.4 ¹⁴	49.33 ⁵²	2.7 ³	20.53 ³⁶	2.1 ¹⁰	52.73 ³⁰	51.6 ¹⁸
19	10.47 ³³	5.8 ¹⁷	49.85 ⁵³	3.0 ⁹	20.89 ³⁷	3.1 ¹⁴	53.03 ³⁰	53.4 ¹⁸
29	10.80 ³²	7.5 ¹⁹	50.38 ⁵²	3.9 ¹³	21.26 ³⁶	4.5 ¹⁷	53.33 ³¹	55.2 ²⁰
Juli 9	11.12 ³²	9.4 ²⁰	50.90 ⁵²	5.2 ¹⁷	21.62 ³⁶	6.2 ¹⁹	53.64 ³⁰	57.2 ¹⁹
19	11.44 ³⁰	11.4 ²²	51.42 ⁴⁹	6.9 ²¹	21.98 ³⁴	8.1 ²²	53.94 ²⁹	59.1 ¹⁸
29	11.74 ²⁷	13.6 ²¹	51.91 ⁴⁵	9.0 ²⁵	22.32 ³¹	10.3 ²³	54.23 ²⁷	60.9 ¹⁸
Aug. 8	12.01 ²⁵	15.7 ²²	52.36 ⁴⁰	11.5 ²⁷	22.63 ²⁸	12.6 ²⁵	54.50 ²⁴	62.7 ¹⁶
18	12.26 ²¹	17.9 ²¹	52.76 ³⁵	14.2 ³⁰	22.91 ²⁵	15.1 ²⁵	54.74 ²¹	64.3 ¹⁴
28	12.47 ¹⁷	20.0 ²⁰	53.11 ³⁰	17.2 ³¹	23.16 ²¹	17.6 ²⁶	54.95 ¹⁸	65.7 ¹²
Sept. 7	12.64 ¹⁴	22.0 ¹⁸	53.41 ²³	20.3 ³³	23.37 ¹⁶	20.2 ²⁵	55.13 ¹⁵	66.9 ¹⁰
17	12.78 ¹⁰	23.8 ¹⁷	53.64 ¹⁷	23.6 ³²	23.53 ¹³	22.7 ²⁴	55.28 ¹¹	67.9 ⁷
27	12.88 ⁷	25.5 ¹⁶	53.81 ¹¹	26.8 ³²	23.66 ⁸	25.1 ²²	55.39 ⁸	68.6 ⁶
Oct. 7	12.95 ³	27.1 ¹³	53.92 ⁴	30.0 ³¹	23.74 ⁵	27.3 ²¹	55.47 ⁴	69.2 ³
17	12.98 ⁰	28.4 ¹¹	53.96 ²	33.1 ³⁰	23.79 ⁰	29.4 ¹⁹	55.51 ²	69.5 ¹
27	12.98 ³	29.5 ⁸	53.94 ⁷	36.1 ²⁷	23.79 ²	31.3 ¹⁷	55.53 ¹	69.6 ¹
Nov. 6	12.95 ⁵	30.3 ⁶	53.87 ¹⁴	38.8 ²⁴	23.77 ⁶	33.0 ¹⁴	55.52 ⁴	69.5 ³
16	12.90 ⁸	30.9 ⁴	53.73 ¹⁹	41.2 ²⁰	23.71 ⁹	34.4 ¹¹	55.48 ⁶	69.2 ³
26	12.82 ¹⁰	31.3 ¹	53.54 ²³	43.2 ¹⁷	23.62 ¹²	35.5 ⁷	55.42 ⁸	68.9 ⁵
Dec. 6	12.72 ¹²	31.4 ²	53.31 ²⁷	44.9 ¹¹	23.50 ¹⁴	36.2 ³	55.34 ¹⁰	68.4 ⁶
16	12.60 ¹³	31.2 ⁴	53.04 ³¹	46.0 ⁶	23.36 ¹⁶	36.5 ⁰	55.24 ¹¹	67.8 ⁷
26	12.47 ¹⁴	30.8 ⁶	52.73 ³³	46.6 ⁰	23.20 ¹⁸	36.5 ³	55.13 ¹²	67.1 ⁷
36	12.33	30.2	52.40	46.6	23.02	36.2	55.01	66.4
Mittl. Ort	8.49	3.0	47.26	9.6	18.76	4.7	51.33	45.7
		11)		13)		14)		15)

1902	β Andromed. 2 ^m .3.		υ Piscium. 4 ^m .I.		♁ Ceti. 3 ^m .o.		δ Cassiopej. 2 ^m .8.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +
	1 ^h 4 ^m	35° 6'	1 ^h 14 ^m	26° 44'	1 ^h 19 ^m	8° 40'	1 ^h 19 ^m	59° 43'
Jan. 0	15.90 ¹⁷	17.6 ⁵	5.90 ¹⁴	66.5 ⁵	8.36 ¹²	82.6 ⁸	26.21 ³²	53.1 ²
10	15.73 ¹⁷	17.1 ⁸	5.76 ¹⁵	66.0 ⁸	8.24 ¹³	83.4 ⁶	25.89 ³³	53.3 [—]
20	15.56 ¹⁷	16.3 ¹¹	5.61 ¹⁵	65.2 ¹⁰	8.11 ¹⁴	84.0 ⁵	25.56 ³⁴	52.9 ⁴
30	15.39 ¹⁶	15.2 ¹³	5.46 ¹⁵	64.2 ¹¹	7.97 ¹³	84.5 ²	25.22 ³²	52.0 ⁹
Febr. 9	15.23 ¹⁴	13.9 ¹⁵	5.31 ¹⁴	63.1 ¹³	7.84 ¹²	84.7 ⁰	24.90 ³⁰	50.6 ¹⁴
19	15.09 ¹²	12.4 ¹⁷	5.17 ¹¹	61.8 ¹³	7.72 ¹⁰	84.7 ²	24.60 ²⁵	48.8 ¹⁸
März 1	14.97 ⁹	10.7 ¹⁷	5.06 ⁸	60.5 ¹³	7.62 ⁸	84.5 ⁴	24.35 ¹⁹	46.7 ²¹
11	14.88 ⁵	9.0 ¹⁷	4.98 ⁵	59.2 ¹³	7.54 ⁵	84.1 ⁶	24.16 ¹³	44.3 ²⁴
21	14.83 ⁰	7.3 ¹⁶	4.93 ¹	57.9 ¹¹	7.49 [—]	83.5 ⁹	24.03 ⁵	41.8 ²⁵
31	14.83 ⁶	5.7 ¹⁶	4.92 ⁴	56.8 ⁹	7.48 ²	82.6 ¹²	23.98 ³	39.2 ²⁶
April 10	14.89 ¹¹	4.1 ¹¹	4.96 ¹⁰	55.9 ⁸	7.50 ⁸	81.4 ¹⁵	24.01 ¹⁴	36.6 ²⁶
20	15.00 ¹⁷	3.0 ⁹	5.06 ¹⁴	55.1 ⁵	7.58 ¹²	79.9 ¹⁷	24.15 ²¹	34.0 ²¹
30	15.17 ²¹	2.1 ⁵	5.20 ¹⁸	54.6 ¹	7.70 ¹⁵	78.2 ¹⁷	24.36 ²⁸	31.9 ¹⁷
Mai 10	15.38 ²⁵	1.6 ¹	5.38 ²³	54.5 ²	7.85 ²⁰	76.5 ¹⁹	24.64 ³⁶	30.2 ¹⁴
20	15.63 ²⁹	1.5 ²	5.61 ²⁷	54.7 ⁶	8.05 ²³	74.6 ²¹	25.00 ⁴²	28.8 ⁹
30	15.92 ³³	1.7 ⁶	5.88 ³⁰	55.3 ⁹	8.28 ²⁶	72.5 ²¹	25.42 ⁴⁶	27.9 ⁵
Juni 9	16.25 ³⁴	2.3 ¹⁰	6.18 ³¹	56.2 ¹²	8.54 ²⁸	70.4 ²¹	25.88 ⁵¹	27.4 ⁰
19	16.59 ³⁶	3.3 ¹³	6.49 ³³	57.4 ¹⁴	8.82 ³⁰	68.3 ²¹	26.39 ⁵²	27.4 ⁵
29	16.95 ³⁶	4.6 ¹⁶	6.82 ³⁴	58.8 ¹⁶	9.12 ³⁰	66.2 ¹⁹	26.91 ⁵³	27.9 ¹⁰
Juli 9	17.31 ³⁵	6.2 ¹⁹	7.16 ³³	60.4 ¹⁹	9.42 ³⁰	64.3 ¹⁸	27.44 ⁵²	28.9 ¹⁴
19	17.66 ³⁴	8.1 ²¹	7.49 ³²	62.3 ²⁰	9.72 ³⁰	62.5 ¹⁶	27.96 ⁵¹	30.3 ¹⁸
29	18.00 ³¹	10.2 ²²	7.81 ³⁰	64.3 ²⁰	10.02 ²⁸	60.9 ¹⁴	28.47 ⁴⁷	32.1 ²²
Aug. 8	18.31 ²⁹	12.4 ²³	8.11 ²⁷	66.3 ²¹	10.30 ²⁵	59.5 ¹⁰	28.94 ⁴⁴	34.3 ²⁴
18	18.60 ²⁵	14.7 ²³	8.38 ²⁵	68.4 ²¹	10.55 ²³	58.5 ⁸	29.38 ⁴⁰	36.7 ²⁷
28	18.85 ²¹	17.0 ²⁴	8.63 ²¹	70.5 ²⁰	10.78 ²⁰	57.7 ⁴	29.78 ³⁴	39.4 ²⁹
Sept. 7	19.06 ¹⁸	19.4 ²³	8.84 ¹⁷	72.5 ¹⁹	10.98 ¹⁶	57.3 ¹	30.12 ²⁹	42.3 ³¹
17	19.24 ¹³	21.7 ²³	9.01 ¹⁴	74.4 ¹⁸	11.14 ¹³	57.2 ²	30.41 ²²	45.4 ³¹
27	19.37 ¹⁰	24.0 ²¹	9.15 ¹¹	76.2 ¹⁶	11.27 ¹⁰	57.4 ⁵	30.63 ¹⁷	48.5 ³¹
Oct. 7	19.47 ⁶	26.1 ¹⁹	9.26 ⁷	77.8 ¹⁵	11.37 ⁶	57.9 ⁶	30.80 ¹¹	51.6 ³⁰
17	19.53 ³	28.0 ¹⁷	9.33 ³	79.3 ¹²	11.43 ³	58.5 ⁹	30.91 ⁵	54.6 ³⁰
27	19.56 ¹	29.7 ¹⁵	9.36 ⁰	80.5 ¹¹	11.46 ⁰	59.4 ¹¹	30.96 ²	57.6 ²⁸
Nov. 6	19.55 ⁵	31.2 ¹³	9.36 ²	81.6 ⁸	11.46 ²	60.5 ¹¹	30.94 ⁸	60.4 ²⁵
16	19.50 ⁷	32.5 ¹⁰	9.34 ⁵	82.4 ⁶	11.44 ⁵	61.6 ¹¹	30.86 ¹³	62.9 ²²
26	19.43 ¹⁰	33.5 ⁷	9.29 ⁸	83.0 ⁴	11.39 ⁸	62.7 ¹²	30.73 ¹⁸	65.1 ¹⁸
Dec. 6	19.33 ¹²	34.2 ³	9.21 ¹¹	83.4 ¹	11.31 ¹⁰	63.9 ¹⁰	30.55 ²⁴	66.9 ¹⁴
16	19.21 ¹⁴	34.5 ⁰	9.10 ¹²	83.5 ²	11.21 ¹¹	64.9 ¹⁰	30.31 ²⁸	68.3 ⁹
26	19.07 ¹⁶	34.5 ³	8.98 ¹⁴	83.3 ⁴	11.10 ¹²	65.9 ⁹	30.03 ³¹	69.2 ⁴
36	18.91	34.2	8.84	82.9	10.98	66.8	29.72	69.6
Mittl. Ort	14.57	4.7	4.63	56.6	7.47	80.1	23.97	34.7
	(16)		(18)		(21)		(20)	

1902	η Piscium. 3 ^m .6.		40 Cassiopej. 5 ^m .6.		υ Persei. 3 ^m .6.		43 Cassiopej. 6 ^m .0.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	1 ^h 26 ^m	14° 50'	1 ^h 30 ^m	72° 32'	1 ^h 31 ^m	48° 7'	1 ^h 35 ^m	67° 32'
Jan. 0	15.41 ⁶	31.7 ⁷	43.97 ⁵⁹	46.2 ⁶	60.23 ²¹	69.9 ¹	7.47 ⁴²	69.7 ⁵
10	15.28 ¹³	31.0 ⁷	43.38 ⁶²	46.8 ⁰	60.02 ²³	69.8 ⁴	7.05 ⁴⁸	70.2 ⁰
20	15.15 ¹⁴	30.3 ⁸	42.76 ⁶²	46.8 ⁵	59.79 ²⁴	69.4 ⁸	6.57 ⁴⁸	70.2 ⁷
30	15.01 ¹⁴	29.5 ⁸	42.14 ⁶¹	46.3 ¹²	59.55 ²³	68.6 ¹²	6.09 ⁴⁶	69.5 ¹¹
Febr. 9	14.87 ¹²	28.7 ⁹	41.53 ⁵⁶	45.1 ¹⁷	59.32 ²²	67.4 ¹⁶	5.63 ⁴³	68.4 ¹⁶
19	14.75 ¹¹	27.8 ⁸	40.97 ⁴⁹	43.4 ²¹	59.10 ¹⁹	65.8 ¹⁹	5.20 ³⁸	66.8 ²¹
März 1	14.64 ⁹	27.0 ⁸	40.48 ³⁹	41.3 ²⁵	58.91 ¹⁵	63.9 ²⁰	4.82 ³⁰	64.7 ²⁴
11	14.55 ⁶	26.2 ⁶	40.09 ²⁸	38.8 ²⁷	58.76 ¹⁰	61.9 ²¹	4.52 ²²	62.3 ²⁶
21	14.49 ¹	25.6 ⁵	39.81 ¹⁶	36.1 ²⁹	58.66 ⁴	59.8 ²¹	4.30 ¹²	59.7 ²⁸
31	14.48 ²	25.1 ²	39.65 ¹	33.2 ²⁹	58.62 ²	57.7 ²⁰	4.18 ¹	56.9 ²⁷
April 10	14.50 ⁸	24.9 ¹¹	39.64 ¹⁵	30.3 ³¹	58.64 ⁹	55.7 ²¹	4.17 ¹¹	54.2 ²⁹
20	14.58 ¹²	24.8 ³	39.79 ²⁸	27.2 ²⁶	58.73 ¹⁵	53.6 ¹⁷	4.28 ²²	51.3 ²⁵
30	14.70 ¹⁶	25.1 ⁵	40.07 ⁴¹	24.6 ²³	58.88 ²¹	51.9 ¹³	4.50 ³³	48.8 ²²
Mai 10	14.86 ²¹	25.6 ⁸	40.48 ⁵²	22.3 ²⁰	59.09 ²⁸	50.6 ¹⁰	4.83 ⁴²	46.6 ¹⁸
20	15.07 ²⁴	26.4 ¹⁰	41.00 ⁶³	20.3 ¹⁵	59.37 ³²	49.6 ⁵	5.25 ⁵⁰	44.8 ¹⁴
30	15.31 ²⁷	27.4 ¹³	41.63 ⁷¹	18.8 ¹⁰	59.69 ³⁶	49.1 ²	5.75 ⁵⁷	43.4 ⁹
Juni 9	15.58 ²⁹	28.7 ¹⁵	42.34 ⁷⁶	17.8 ⁵	60.05 ³⁹	48.9 ³	6.32 ⁶³	42.5 ⁴
19	15.87 ³¹	30.2 ¹⁶	43.10 ⁸¹	17.3 ¹	60.44 ⁴¹	49.2 ⁷	6.95 ⁶⁵	42.1 ¹
29	16.18 ³¹	31.8 ¹⁸	43.91 ⁸³	17.2 ⁵	60.85 ⁴²	49.9 ¹¹	7.60 ⁶⁷	42.2 ⁶
Juli 9	16.49 ³¹	33.6 ¹⁸	44.74 ⁸²	17.7 ¹⁰	61.27 ⁴²	51.0 ¹⁴	8.27 ⁶⁷	42.8 ¹⁰
19	16.80 ³¹	35.4 ¹⁹	45.56 ⁸¹	18.7 ¹⁵	61.69 ⁴¹	52.4 ¹⁸	8.94 ⁶⁵	43.8 ¹⁵
29	17.11 ²⁸	37.3 ¹⁸	46.37 ⁷⁷	20.2 ¹⁹	62.10 ³⁹	54.2 ²⁰	9.59 ⁶³	45.3 ¹⁹
Aug. 8	17.39 ²⁷	39.1 ¹⁷	47.14 ⁷¹	22.1 ²³	62.49 ³⁶	56.2 ²³	10.22 ⁵⁸	47.2 ²³
18	17.66 ²⁴	40.8 ¹⁷	47.85 ⁶⁵	24.4 ²⁶	62.85 ³²	58.5 ²⁴	10.80 ⁵³	49.5 ²⁶
28	17.90 ²⁰	42.5 ¹⁵	48.50 ⁵⁷	27.0 ³⁰	63.17 ²⁹	60.9 ²⁶	11.33 ⁴⁷	52.1 ²⁹
Sept. 7	18.10 ¹⁸	44.0 ¹³	49.07 ⁴⁹	30.0 ³²	63.46 ²⁴	63.5 ²⁷	11.80 ⁴⁰	55.0 ³⁰
17	18.28 ¹⁴	45.3 ¹¹	49.56 ³⁹	33.2 ³³	63.70 ²⁰	66.2 ²⁶	12.20 ³³	58.0 ³²
27	18.42 ¹¹	46.4 ⁹	49.95 ²⁹	36.5 ³⁴	63.90 ¹⁶	68.8 ²⁷	12.53 ²⁵	61.2 ³³
Oct. 7	18.53 ⁸	47.3 ⁸	50.24 ¹⁸	39.9 ³⁵	64.06 ¹¹	71.5 ²⁵	12.78 ¹⁷	64.5 ³³
17	18.61 ⁵	48.1 ⁵	50.42 ⁸	43.4 ³⁴	64.17 ⁷	74.0 ²⁴	12.95 ⁹	67.8 ³²
27	18.66 ¹	48.6 ³	50.50 ²	46.8 ³²	64.24 ²	76.4 ²³	13.04 ⁰	71.0 ³¹
Nov. 6	18.67 ¹	48.9 ²	50.48 ¹⁴	50.0 ³¹	64.26 ³	78.7 ²⁰	13.04 ⁸	74.1 ³⁰
16	18.66 ⁴	49.1 ⁰	50.34 ²⁴	53.1 ²⁷	64.23 ⁶	80.7 ¹⁸	12.96 ¹⁶	77.1 ²⁶
26	18.62 ⁶	49.1 ²	50.10 ³⁴	55.8 ²⁴	64.17 ¹¹	82.5 ¹⁴	12.80 ²⁴	79.7 ²²
Dec. 6	18.56 ⁸	48.9 ³	49.76 ⁴³	58.2 ²⁰	64.06 ¹⁴	83.9 ¹⁰	12.56 ³¹	81.9 ¹⁸
16	18.48 ¹⁰	48.6 ⁴	49.33 ⁵¹	60.2 ¹⁵	63.92 ¹⁸	84.9 ⁶	12.25 ³⁷	83.7 ¹⁴
26	18.38 ¹²	48.2 ⁶	48.82 ⁵⁷	61.7 ⁹	63.74 ²⁰	85.5 ²	11.88 ⁴³	85.1 ⁸
36	18.26	47.6	48.25	62.6	63.54	85.7	11.45	85.9
Mittl. Ort	14.22	26.3	40.30	26.4	58.36	54.7	4.41	50.8
	22)		347)		23)		348)	

1902	φ Persei. 4 ^m .O.		τ Ceti. 3 ^m .3.		ο Piscium. 4 ^m .I.		Lac. ε Scupt. 5 ^m .I.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. -
	1 ^h 37 ^m	50° 11'	1 ^h 39 ^m	16° 26'	1 ^h 40 ^m	8° 39'	1 ^h 41 ^m	25° 32'
Jan. 0	32.80	57.5	31.78	79.0	14.18	55.3	4.13	41.9
10	32.57	57.6	31.64	79.8	14.07	54.6	3.97	42.8
20	32.33	57.2	31.50	80.4	13.94	53.8	3.81	43.4
30	32.08	56.5	31.35	80.7	13.80	53.1	3.65	43.6
Febr. 9	31.83	55.3	31.20	80.8	13.66	52.4	3.49	43.4
19	31.60	53.8	31.06	80.6	13.53	51.8	3.34	42.9
März 1	31.40	52.0	30.94	80.1	13.41	51.3	3.20	42.0
11	31.23	49.9	30.84	79.3	13.32	50.8	3.09	40.9
21	31.11	47.7	30.76	78.2	13.25	50.5	3.01	39.4
31	31.05	45.5	30.72	76.9	13.22	50.4	2.96	37.6
April 10	31.06	43.4	30.71	75.3	13.23	50.5	2.95	35.5
20	31.15	41.2	30.75	73.3	13.29	50.9	2.99	33.0
30	31.30	39.5	30.84	71.2	13.39	51.5	3.08	30.6
Mai 10	31.52	38.0	30.97	69.0	13.54	52.3	3.21	28.0
20	31.79	36.9	31.15	66.7	13.73	53.4	3.39	25.3
30	32.12	36.2	31.36	64.4	13.95	54.7	3.61	22.7
Juni 9	32.49	36.0	31.60	62.0	14.21	56.2	3.86	20.1
19	32.89	36.1	31.88	59.6	14.49	57.8	4.14	17.6
29	33.31	36.7	32.17	57.4	14.78	59.5	4.44	15.3
Juli 9	33.75	37.7	32.47	55.4	15.09	61.3	4.76	13.3
19	34.19	39.0	32.77	53.6	15.40	63.1	5.08	11.5
29	34.61	40.7	33.07	52.0	15.70	64.9	5.40	10.1
Aug. 8	35.01	42.7	33.36	50.8	15.98	66.5	5.70	9.1
18	35.39	44.9	33.63	49.9	16.25	68.1	5.98	8.5
28	35.73	47.3	33.87	49.4	16.49	69.5	6.24	8.4
Sept. 7	36.03	49.9	34.08	49.3	16.71	70.7	6.47	8.7
17	36.29	52.6	34.26	49.5	16.89	71.7	6.66	9.3
27	36.51	55.3	34.41	50.0	17.04	72.5	6.81	10.4
Oct. 7	36.68	58.0	34.52	50.9	17.16	73.0	6.93	11.8
17	36.80	60.6	34.60	52.0	17.25	73.3	7.02	13.4
27	36.88	63.1	34.65	53.3	17.31	73.5	7.06	15.2
Nov. 6	36.91	65.5	34.66	54.8	17.34	73.4	7.07	17.2
16	36.89	67.6	34.64	56.4	17.34	73.2	7.04	19.1
26	36.83	69.5	34.59	57.9	17.31	72.9	6.99	21.0
Dec. 6	36.72	71.0	34.52	59.4	17.26	72.4	6.91	22.8
16	36.57	72.2	34.43	60.7	17.19	71.9	6.81	24.4
26	36.39	73.0	34.31	61.8	17.10	71.3	6.68	25.8
36	36.17	73.3	34.18	62.8	16.99	70.6	6.53	26.8
Mittl. Ort	30.80	42.1	30.84	73.2	12.99	52.6	3.26	33.3
	24)		542)		25)		543)	

1902	ζ Ceti. 3 ^m .0.		ε Cassiopej. 3 ^m .3.		α Trianguli. 3 ^m .6.		ξ Piscium. 4 ^m .0.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	1 ^h 46 ^m	10° 48'	1 ^h 47 ^m	63° 11'	1 ^h 47 ^m	29° 6'	1 ^h 48 ^m	2° 42'
Jan. 0	38.35 ¹²	73.0 ⁹	23.08 ³⁵	32.8 ⁵	31.11 ¹⁴	14.6 ³	30.03 ¹²	13.9 ⁷
10	38.23 ¹⁴	73.9 ⁶	22.73 ³⁷	33.3 ⁰	30.97 ¹⁵	14.3 ⁵	29.91 ¹³	13.2 ⁷
20	38.09 ¹⁴	74.5 ⁵	22.36 ³⁹	33.3 ⁵	30.82 ¹⁷	13.8 ⁸	29.78 ¹³	12.5 ⁷
30	37.95 ¹⁴	75.0 ³	21.97 ³⁹	32.8 ¹⁰	30.65 ¹⁶	13.0 ¹⁰	29.65 ¹⁴	11.8 ⁵
Febr. 9	37.81 ¹⁴	75.3 ⁰	21.58 ³⁷	31.8 ¹⁵	30.49 ¹⁶	12.0 ¹¹	29.51 ¹³	11.3 ⁵
19	37.67 ¹³	75.3 ²	21.21 ³²	30.3 ¹⁹	30.33 ¹⁴	10.9 ¹²	29.38 ¹²	10.8 ³
März 1	37.54 ¹⁰	75.1 ⁵	20.89 ²⁷	28.4 ²²	30.19 ¹²	9.7 ¹³	29.26 ¹⁰	10.5 ²
11	37.44 ⁸	74.6 ⁷	20.62 ²⁰	26.2 ²⁵	30.07 ⁹	8.4 ¹³	29.16 ⁸	10.3 ¹
21	37.36 ⁴	73.9 ¹⁰	20.42 ¹²	23.7 ²⁶	29.98 ⁴	7.1 ¹²	29.08 ⁴	10.4 ²
31	37.32 ⁰	72.9 ¹³	20.30 ³	21.1 ²⁶	29.94 ⁰	5.9 ¹¹	29.04 ⁰	10.6 ⁴
April 10	37.32 ⁵	71.6 ¹⁶	20.27 ⁸	18.5 ²⁸	29.94 ⁶	4.8 ¹⁰	29.04 ⁵	11.0 ⁸
20	37.37 ⁸	70.0 ¹⁷	20.35 ¹⁷	15.7 ²⁴	30.00 ¹¹	3.8 ⁷	29.09 ⁹	11.8 ⁹
30	37.45 ¹³	68.3 ¹⁹	20.52 ²⁷	13.3 ²⁰	30.11 ¹⁶	3.1 ⁴	29.18 ¹⁴	12.7 ¹¹
Mai 10	37.58 ¹⁷	66.4 ²⁰	20.79 ³⁴	11.3 ¹⁷	30.27 ²⁰	2.7 ⁰	29.32 ¹⁷	13.8 ¹⁴
20	37.75 ²¹	64.4 ²¹	21.13 ⁴²	9.6 ¹⁴	30.47 ²⁵	2.7 ²	29.49 ²¹	15.2 ¹⁵
30	37.96 ²⁵	62.3 ²²	21.55 ⁴⁸	8.2 ⁹	30.72 ²⁸	2.9 ⁶	29.70 ²⁵	16.7 ¹⁷
Juni 9	38.21 ²⁷	60.1 ²²	22.03 ⁵³	7.3 ⁴	31.00 ³¹	3.5 ⁸	29.95 ²⁷	18.4 ¹⁸
19	38.48 ²⁹	57.9 ²¹	22.56 ⁵⁶	6.9 ¹	31.31 ³³	4.3 ¹¹	30.22 ²⁹	20.2 ¹⁹
29	38.77 ³⁰	55.8 ²⁰	23.12 ⁵⁸	7.0 ⁵	31.64 ³⁴	5.4 ¹⁴	30.51 ³⁰	22.1 ¹⁸
Juli 9	39.07 ³⁰	53.8 ¹⁸	23.70 ⁵⁹	7.5 ¹⁰	31.98 ³⁴	6.8 ¹⁶	30.81 ³⁰	23.9 ¹⁸
19	39.37 ³⁰	52.0 ¹⁶	24.29 ⁵⁷	8.5 ¹⁴	32.32 ³³	8.4 ¹⁷	31.11 ³⁰	25.7 ¹⁸
29	39.67 ²⁹	50.4 ¹⁴	24.86 ⁵⁵	9.9 ¹⁸	32.65 ³²	10.1 ¹⁸	31.41 ²⁹	27.5 ¹⁶
Aug. 8	39.96 ²⁷	49.0 ¹⁰	25.41 ⁵²	11.7 ²¹	32.97 ³⁰	11.9 ²⁰	31.70 ²⁷	29.1 ¹⁴
18	40.23 ²⁴	48.0 ⁷	25.93 ⁴⁷	13.8 ²⁵	33.27 ²⁷	13.9 ¹⁹	31.97 ²⁴	30.5 ¹¹
28	40.47 ²²	47.3 ⁴	26.40 ⁴³	16.3 ²⁷	33.54 ²⁴	15.8 ¹⁹	32.21 ²²	31.6 ¹⁰
Sept. 7	40.69 ¹⁹	46.9 ¹	26.83 ³⁷	19.0 ²⁹	33.78 ²²	17.7 ¹⁹	32.43 ¹⁹	32.6 ⁷
17	40.88 ¹⁶	46.8 ³	27.20 ³¹	21.9 ³⁰	34.00 ¹⁸	19.6 ¹⁸	32.62 ¹⁶	33.3 ⁴
27	41.04 ¹²	47.1 ⁶	27.51 ²⁵	24.9 ³¹	34.18 ¹⁴	21.4 ¹⁷	32.78 ¹²	33.7 ²
Oct. 7	41.16 ⁹	47.7 ⁹	27.76 ¹⁸	28.0 ³¹	34.32 ¹¹	23.1 ¹⁵	32.90 ¹⁰	33.9 ¹
17	41.25 ⁵	48.6 ¹⁰	27.94 ¹¹	31.1 ³¹	34.43 ⁸	24.6 ¹³	33.00 ⁶	33.8 ²
27	41.30 ³	49.6 ¹²	28.05 ⁴	34.2 ²⁹	34.51 ⁴	25.9 ¹²	33.06 ⁴	33.6 ⁴
Nov. 6	41.33 ⁰	50.8 ¹³	28.09 ³	37.1 ²⁸	34.55 ¹	27.1 ¹⁰	33.10 ¹	33.2 ⁶
16	41.33 ³	52.1 ¹³	28.06 ³	39.9 ²⁵	34.56 ⁹	28.1 ⁸	33.11 ²	32.6 ⁶
26	41.30 ⁶	53.4 ¹³	27.97 ¹⁷	42.4 ²²	34.54 ⁵	28.9 ⁶	33.09 ⁵	32.0 ⁷
Dec. 6	41.24 ⁸	54.7 ¹³	27.80 ²³	44.6 ¹⁷	34.49 ⁹	29.5 ³	33.04 ⁷	31.3 ⁸
16	41.16 ¹¹	56.0 ¹¹	27.57 ²⁹	46.3 ¹³	34.40 ¹¹	29.8 ⁰	32.97 ⁹	30.5 ⁸
26	41.05 ¹²	57.1 ⁹	27.28 ³³	47.6 ⁹	34.29 ¹³	29.8 ¹	32.88 ¹¹	29.7 ⁸
36	40.93	58.0	26.95	48.5	34.16	29.7	32.77	28.9
Mittl. Ort	37.32	68.8	20.26	15.3	29.58	5.6	28.85	13.7

1902	β Arietis. 2 ^m .8.		50 Cassiopej. 4 ^m .0.		υ Ceti. 4 ^m .0.		γ Andromed. 2 ^m .4.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +
	1 ^h 49 ^m	20° 19'	1 ^h 55 ^m	71° 56'	1 ^h 55 ^m	21° 32'	1 ^h 57 ^m	41° 51'
Jan. 0	14.82 ¹²	51.0 ⁴	7.29 ⁵⁴	68.2 ⁹	24.18 ¹⁴	78.1 ⁹	54.68 ¹⁸	46.5 ¹
10	14.70 ¹⁴	50.6 ⁷	6.75 ⁵⁹	69.1 ³	24.04 ¹⁵	79.0 ⁷	54.50 ¹⁹	46.6 ²
20	14.56 ¹⁵	49.9 ⁷	6.16 ⁶¹	69.4 ³	23.89 ¹⁶	79.7 ⁴	54.31 ²⁰	46.4 ⁶
30	14.41 ¹⁵	49.2 ⁹	5.55 ⁶⁰	69.1 ³	23.73 ¹⁶	80.1 ⁰	54.11 ²¹	45.8 ¹⁰
Febr. 9	14.26 ¹⁴	48.3 ⁹	4.95 ⁵⁷	68.3 ¹⁴	23.57 ¹⁶	80.1 ³	53.90 ²⁰	44.8 ¹³
19	14.12 ¹³	47.4 ⁹	4.38 ⁵¹	66.9 ¹⁹	23.41 ¹⁴	79.8 ⁶	53.70 ¹⁹	43.5 ¹⁵
März 1	13.99 ¹¹	46.5 ¹⁰	3.87 ⁴⁴	65.0 ²³	23.27 ¹²	79.2 ¹⁰	53.51 ¹⁵	42.0 ¹⁷
11	13.88 ⁸	45.5 ⁹	3.43 ³³	62.7 ²⁵	23.15 ⁹	78.2 ¹²	53.36 ¹²	40.3 ¹⁷
21	13.80 ⁴	44.6 ⁷	3.10 ²²	60.2 ²⁸	23.06 ⁶	77.0 ¹⁵	53.24 ⁷	38.6 ¹⁸
31	13.76 ⁰	43.9 ⁶	2.88 ⁸	57.4 ²⁸	23.00 ²	75.5 ¹⁸	53.17 ²	36.8 ¹⁸
April 10	13.76 ¹⁹	43.3 ⁴	2.80 ⁶	54.6 ²⁸	22.98 ²	73.7 ²¹	53.15 ⁵	35.0 ¹⁶
20	13.82 ¹⁰	42.9 ²	2.86 ²¹	51.8 ³⁰	23.00 ⁸	71.6 ²⁴	53.20 ¹¹	33.4 ¹⁵
30	13.92 ¹⁴	42.7 ¹	3.07 ³³	48.8 ²⁴	23.08 ¹²	69.2 ²⁴	53.31 ¹⁷	31.9 ¹¹
Mai 10	14.06 ¹⁹	42.8 ⁴	3.40 ⁴⁶	46.4 ²¹	23.20 ¹⁶	66.8 ²⁵	53.48 ²³	30.8 ⁸
20	14.25 ²³	43.2 ⁷	3.86 ⁵⁶	44.3 ¹⁸	23.36 ²¹	64.3 ²⁵	53.71 ²⁷	30.0 ⁵
30	14.48 ²⁷	43.9 ⁹	4.42 ⁶⁴	42.5 ¹³	23.57 ²⁴	61.8 ²⁶	53.98 ³¹	29.5 ¹
Juni 9	14.75 ²⁹	44.8 ¹²	5.06 ⁷²	41.2 ⁸	23.81 ²⁶	59.2 ²⁴	54.29 ³⁵	29.4 ³
19	15.04 ³¹	46.0 ¹⁴	5.78 ⁷⁷	40.4 ³	24.07 ²⁹	56.8 ²³	54.64 ³⁷	29.7 ⁶
29	15.35 ³²	47.4 ¹⁵	6.55 ⁸¹	40.1 ²	24.36 ³¹	54.5 ²¹	55.01 ³⁸	30.3 ¹⁰
Juli 9	15.67 ³²	48.9 ¹⁷	7.36 ⁸¹	40.3 ⁷	24.67 ³¹	52.4 ¹⁹	55.39 ³⁸	31.3 ¹³
19	15.99 ³¹	50.6 ¹⁷	8.17 ⁸⁰	41.0 ¹²	24.98 ³¹	50.5 ¹⁵	55.77 ³⁸	32.6 ¹⁵
29	16.30 ³⁰	52.3 ¹⁸	8.97 ⁷⁸	42.2 ¹⁶	25.29 ³⁰	49.0 ¹²	56.15 ³⁷	34.1 ¹⁸
Aug. 8	16.60 ²⁹	54.1 ¹⁸	9.75 ⁷⁴	43.8 ²⁰	25.59 ²⁹	47.8 ⁷	56.52 ³⁵	35.9 ²⁰
18	16.89 ²⁶	55.9 ¹⁷	10.49 ⁶⁸	45.8 ²⁴	25.88 ²⁶	47.1 ⁴	56.87 ³²	37.9 ²¹
28	17.15 ²³	57.6 ¹⁶	11.17 ⁶²	48.2 ²⁶	26.14 ²³	46.7 ¹	57.19 ²⁹	40.0 ²²
Sept. 7	17.38 ²⁰	59.2 ¹⁵	11.79 ⁵⁴	50.8 ³⁰	26.37 ²⁰	46.8 ⁴	57.48 ²⁵	42.2 ²³
17	17.58 ¹⁷	60.7 ¹⁴	12.33 ⁴⁵	53.8 ³¹	26.57 ¹⁷	47.2 ⁸	57.73 ²²	44.5 ²³
27	17.75 ¹⁴	62.1 ¹²	12.78 ³⁷	56.9 ³³	26.74 ¹³	48.0 ¹²	57.95 ¹⁸	46.8 ²²
Oct. 7	17.89 ¹⁰	63.3 ¹⁰	13.15 ²⁷	60.2 ³³	26.87 ¹⁰	49.2 ¹⁴	58.13 ¹⁴	49.0 ²²
17	17.99 ⁸	64.3 ⁸	13.42 ¹⁶	63.5 ³⁴	26.97 ⁶	50.6 ¹⁷	58.27 ¹⁰	51.2 ²¹
27	18.07 ⁴	65.1 ⁷	13.58 ⁶	66.9 ³³	27.03 ³	52.3 ¹⁸	58.37 ⁶	53.3 ¹⁹
Nov. 6	18.11 ¹	65.8 ⁴	13.64 ⁵	70.2 ³¹	27.06 ¹	54.1 ¹⁸	58.43 ²	55.2 ¹⁷
16	18.12 ²	66.2 ³	13.59 ¹⁶	73.3 ²⁹	27.05 ³	55.9 ¹⁸	58.45 ²	56.9 ¹⁵
26	18.10 ⁴	66.5 ²	13.43 ²⁶	76.2 ²⁵	27.02 ⁷	57.7 ¹⁸	58.43 ⁶	58.4 ¹³
Dec. 6	18.06 ⁷	66.7 ¹	13.17 ³⁵	78.7 ²²	26.95 ⁹	59.5 ¹⁶	58.37 ¹⁰	59.7 ⁹
16	17.99 ¹⁰	66.6 ²	12.82 ⁴⁴	80.9 ¹⁷	26.86 ¹¹	61.1 ¹³	58.27 ¹³	60.6 ⁶
26	17.89 ¹¹	66.4 ⁴	12.38 ⁵²	82.6 ¹¹	26.75 ¹³	62.4 ¹¹	58.14 ¹⁶	61.2 ³
36	17.78	66.0	11.86	83.7	26.62	63.5	57.98	61.5
Mittl. Ort	13.42	44.9	3.25	50.0	23.19	70.2	52.78	34.4
	30)		31)		545)		32)	

1902	α Arietis. 2 ^m .O.		β Trianguli. 3 ^m .O.		55 Cassiopej. 6 ^m .I.		Lac. μ Forn. 5 ^m .2.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	2 ^h 1 ^m	22° 59'	2 ^h 3 ^m	34° 31'	2 ^h 6 ^m	66° 3'	2 ^h 8 ^m	31° 10'
Jan. 0	40.30 ¹²	63.7 ³	44.33 ¹⁴	35.8 ¹	50.40 ³⁸	71.3 ⁹	36.46 ¹⁷	72.7 ¹¹
10	40.18 ¹⁴	63.4 ⁶	44.19 ¹⁶	35.7 ⁴	50.02 ⁴²	72.2 ³	36.29 ¹⁷	73.8 ⁷
20	40.04 ¹⁵	62.8 ⁷	44.03 ¹⁸	35.3 ⁶	49.60 ⁴⁴	72.5 ³	36.12 ¹⁹	74.5 ³
30	39.89 ¹⁶	62.1 ⁸	43.85 ¹⁹	34.7 ⁹	49.16 ⁴⁵	72.2 ⁸	35.93 ¹⁹	74.8 ¹
Febr. 9	39.73 ¹⁶	61.3 ⁹	43.66 ¹⁸	33.8 ¹¹	48.71 ⁴³	71.4 ¹²	35.74 ¹⁸	74.7 ⁵
19	39.57 ¹⁴	60.4 ¹⁰	43.48 ¹⁶	32.7 ¹³	48.28 ³⁹	70.2 ¹⁷	35.56 ¹⁷	74.2 ⁹
März 1	39.43 ¹²	59.4 ¹⁰	43.32 ¹⁴	31.4 ¹⁴	47.89 ³⁴	68.5 ²¹	35.39 ¹⁵	73.3 ¹³
11	39.31 ⁹	58.4 ¹⁰	43.18 ¹¹	30.0 ¹⁵	47.55 ²⁷	66.4 ²⁴	35.24 ¹²	72.0 ¹⁶
21	39.22 ⁶	57.4 ⁹	43.07 ⁷	28.5 ¹⁴	47.28 ¹⁸	64.0 ²⁶	35.12 ⁹	70.4 ²⁰
31	39.16 ¹	56.5 ⁷	43.00 ²	27.1 ¹⁴	47.10 ⁸	61.4 ²⁶	35.03 ⁴	68.4 ²²
April 10	39.15 ⁴	55.8 ⁶	42.98 ⁴	25.7 ¹²	47.02 ³	58.8 ²⁷	34.99 ⁰	66.2 ²⁵
20	39.19 ¹⁰	55.2 ⁴	43.02 ¹⁰	24.5 ¹¹	47.05 ¹⁵	56.1 ²⁷	34.99 ⁵	63.7 ²⁹
30	39.29 ¹⁴	54.8 ¹	43.12 ¹⁵	23.4 ⁷	47.20 ²⁴	53.4 ²³	35.04 ¹⁰	60.8 ²⁸
Mai 10	39.43 ¹⁸	54.7 ²	43.27 ²⁰	22.7 ⁵	47.44 ³⁴	51.1 ²⁰	35.14 ¹⁵	58.0 ²⁹
20	39.61 ²²	54.9 ⁵	43.47 ²⁵	22.2 ¹	47.78 ⁴³	49.1 ¹⁶	35.29 ²⁰	55.1 ²⁹
30	39.83 ²⁶	55.4 ⁸	43.72 ²⁸	22.1 ²	48.21 ⁵⁰	47.5 ¹²	35.49 ²³	52.2 ²⁸
Juni 9	40.09 ²⁹	56.2 ¹⁰	44.00 ³²	22.3 ⁵	48.71 ⁵⁶	46.3 ⁷	35.72 ²⁷	49.4 ²⁶
19	40.38 ³¹	57.2 ¹²	44.32 ³⁴	22.8 ⁸	49.27 ⁶⁰	45.6 ³	35.99 ³⁰	46.8 ²⁵
29	40.69 ³³	58.4 ¹⁴	44.66 ³⁵	23.6 ¹¹	49.87 ⁶³	45.3 ²	36.29 ³¹	44.3 ²²
Juli 9	41.02 ³²	59.8 ¹⁶	45.01 ³⁶	24.7 ¹⁴	50.50 ⁶⁴	45.5 ⁶	36.60 ³³	42.1 ¹⁹
19	41.34 ³²	61.4 ¹⁶	45.37 ³⁵	26.1 ¹⁶	51.14 ⁶⁴	46.1 ¹¹	36.93 ³³	40.2 ¹⁵
29	41.66 ³¹	63.0 ¹⁷	45.72 ³⁴	27.7 ¹⁷	51.78 ⁶³	47.2 ¹⁶	37.26 ³²	38.7 ¹⁰
Aug. 8	41.97 ³⁰	64.7 ¹⁸	46.06 ³²	29.4 ¹⁹	52.41 ⁵⁹	48.8 ¹⁹	37.58 ³⁰	37.7 ⁷
18	42.27 ²⁷	66.5 ¹⁷	46.38 ³⁰	31.3 ¹⁹	53.00 ⁵⁶	50.7 ²²	37.88 ²⁹	37.0 ¹
28	42.54 ²⁴	68.2 ¹⁷	46.68 ²⁷	33.2 ²⁰	53.56 ⁵⁰	52.9 ²⁵	38.17 ²⁶	36.9 ⁴
Sept. 7	42.78 ²²	69.9 ¹⁵	46.95 ²⁴	35.2 ²⁰	54.06 ⁴⁵	55.4 ²⁸	38.43 ²²	37.3 ⁹
17	43.00 ¹⁹	71.4 ¹⁵	47.19 ²¹	37.2 ²⁰	54.51 ³⁸	58.2 ²⁹	38.65 ¹⁸	38.2 ¹²
27	43.19 ¹⁵	72.9 ¹³	47.40 ¹⁷	39.2 ¹⁸	54.89 ³²	61.1 ³¹	38.83 ¹⁵	39.4 ¹⁶
Oct. 7	43.34 ¹²	74.2 ¹¹	47.57 ¹³	41.0 ¹⁸	55.21 ²⁵	64.2 ³¹	38.98 ¹¹	41.0 ¹⁹
17	43.46 ⁹	75.3 ¹⁰	47.70 ¹⁰	42.8 ¹⁷	55.46 ¹⁷	67.3 ³¹	39.09 ⁸	42.9 ²²
27	43.55 ⁵	76.3 ⁸	47.80 ⁷	44.5 ¹⁵	55.63 ⁹	70.4 ³¹	39.17 ³	45.1 ²²
Nov. 6	43.60 ³	77.1 ⁶	47.87 ³	46.0 ¹³	55.72 ¹	73.5 ²⁹	39.20 ⁰	47.3 ²³
16	43.63 ⁰	77.7 ⁵	47.90 ¹	47.3 ¹¹	55.73 ⁷	76.4 ²⁷	39.20 ⁴	49.6 ²³
26	43.63 ⁴	78.2 ²	47.89 ⁴	48.4 ⁹	55.66 ¹⁵	79.1 ²⁴	39.16 ⁸	51.9 ²¹
Dec. 6	43.59 ⁶	78.4 ¹	47.85 ⁷	49.3 ⁶	55.51 ²³	81.5 ²⁰	39.08 ¹⁰	54.0 ¹⁹
16	43.53 ⁹	78.5 ¹	47.78 ¹¹	49.9 ⁴	55.28 ³⁰	83.5 ¹⁶	38.98 ¹³	55.9 ¹⁶
26	43.44 ¹²	78.4 ²	47.67 ¹⁴	50.3 ¹	54.98 ³⁶	85.1 ¹²	38.85 ¹⁴	57.5 ¹³
36	43.32	78.2	47.53	50.4	54.62	86.3	38.71	58.8
Mittl. Ort	38.79	57.3	42.58	26.0	47.04	54.7	35.47	61.8
		33)		34)		350)		546)

1902	67 Ceti. 6 ^m .o.		o Ceti. 1.7...9 ^m .o.		ε ² Ceti. 4 ^m .o.		36 H.Cassiop. 5 ^m .6.	
	AR.	Decl.	AR.	Decl.	AR.	Decl. +	AR.	Decl. +
	2 ^h 12 ^m	6° 52'	2 ^h 14 ^m	3° 25'	2 ^h 22 ^m	8° 1'	2 ^h 28 ^m	72° 23'
Jan. 0	6.85 ⁵ ₁₁	28.7 ⁹	24.90 ¹¹	24.4 ⁹	58.23 ¹¹	16.0 ⁶	47.06 ⁵¹	39.2 ¹³
10	6.74 ¹³	29.6 ⁸	24.79 ¹⁴	25.3 ⁸	58.12 ¹²	15.4 ⁶	46.55 ⁵⁷	40.5 ⁸
20	6.61 ¹⁵	30.4 ⁶	24.65 ¹⁴	26.1 ⁶	58.00 ¹⁴	14.8 ⁷	45.98 ⁶²	41.3 ¹
30	6.46 ¹⁴	31.0 ⁵	24.51 ¹⁵	26.7 ⁴	57.86 ¹⁵	14.1 ⁷	45.36 ⁶³	41.4 [—]
Febr. 9	6.32 ¹⁵	31.5 ²	24.36 ¹⁴	27.1 ³	57.71 ¹⁵	13.4 ⁵	44.73 ⁶²	41.0 ⁴
19	6.17 ¹⁴	31.7 ⁰	24.22 ¹⁴	27.4 ¹	57.56 ¹⁴	12.9 ⁵	44.11 ⁵⁸	40.0 ¹⁵
März 1	6.03 ¹²	31.7 ³	24.08 ¹²	27.5 ⁰	57.42 ¹³	12.4 ⁴	43.53 ⁵²	38.5 ¹⁹
11	5.91 ¹⁰	31.4 ⁵	23.96 ¹⁰	27.5 ³	57.29 ¹⁰	12.0 ²	43.01 ⁴²	36.6 ²³
21	5.81 ⁶	30.9 ⁷	23.86 ⁶	27.2 ⁵	57.19 ⁷	11.8 [—]	42.59 ³¹	34.3 ²⁵
31	5.75 ³	30.2 ¹⁰	23.80 ³	26.7 ⁸	57.12 ³	11.7 [—]	42.28 ¹⁹	31.8 ²⁸
April 10	5.72 ²	29.2 ¹¹	23.77 ¹	25.9 ¹⁰	57.09 ¹	11.8 ³	42.09 ⁵	29.0 ²⁸
20	5.74 ⁶	28.1 ¹⁶	23.78 ⁷	24.9 ¹³	57.10 ⁶	12.1 ⁶	42.04 ⁹	26.2 ²⁷
30	5.80 ¹¹	26.5 ¹⁶	23.85 ¹¹	23.6 ¹⁵	57.16 ¹¹	12.7 ⁸	42.13 ²⁶	23.5 ²⁹
Mai 10	5.91 ¹⁵	24.9 ¹⁸	23.96 ¹⁵	22.1 ¹⁶	57.27 ¹⁵	13.5 ¹⁰	42.39 ³⁸	20.6 ²⁴
20	6.06 ¹⁹	23.1 ²⁰	24.11 ¹⁹	20.5 ¹⁷	57.42 ¹⁹	14.5 ¹¹	42.77 ⁴⁹	18.2 ²⁰
30	6.25 ²³	21.1 ²⁰	24.30 ²²	18.8 ¹⁹	57.61 ²²	15.6 ¹⁴	43.26 ⁶⁰	16.2 ¹⁶
Juni 9	6.48 ²⁵	19.1 ²¹	24.52 ²⁶	16.9 ²⁰	57.83 ²⁶	17.0 ¹⁵	43.86 ⁶⁹	14.6 ¹²
19	6.73 ²⁸	17.0 ²⁰	24.78 ²⁷	14.9 ¹⁹	58.09 ²⁸	18.5 ¹⁶	44.55 ⁷⁵	13.4 ⁸
29	7.01 ²⁹	15.0 ²⁰	25.05 ²⁹	13.0 ¹⁹	58.37 ²⁹	20.1 ¹⁷	45.30 ⁸⁰	12.6 ³
Juli 9	7.30 ³⁰	13.0 ¹⁸	25.34 ³⁰	11.1 ¹⁸	58.66 ³⁰	21.8 ¹⁷	46.10 ⁸³	12.3 ²
19	7.60 ³⁰	11.2 ¹⁷	25.64 ³⁰	9.3 ¹⁷	58.96 ³¹	23.5 ¹⁶	46.93 ⁸⁴	12.5 ⁷
29	7.90 ²⁹	9.5 ¹⁴	25.94 ²⁹	7.6 ¹⁵	59.27 ²⁹	25.1 ¹⁶	47.77 ⁸⁴	13.2 ¹¹
Aug. 8	8.19 ²⁸	8.1 ¹²	26.23 ²⁸	6.1 ¹²	59.56 ²⁹	26.7 ¹⁴	48.61 ⁸⁰	14.3 ¹⁶
18	8.47 ²⁶	6.9 ⁹	26.51 ²⁶	4.9 ¹⁰	59.85 ²⁶	28.1 ¹³	49.41 ⁷⁶	15.9 ²⁰
28	8.73 ²³	6.0 ⁶	26.77 ²³	3.9 ⁷	60.11 ²⁴	29.4 ¹¹	50.17 ⁷²	17.9 ²²
Sept. 7	8.96 ²¹	5.4 ²	27.00 ²¹	3.2 ⁴	60.35 ²²	30.5 ⁸	50.89 ⁶⁴	20.1 ²⁶
17	9.17 ¹⁷	5.2 [—]	27.21 ¹⁸	2.8 ¹	60.57 ¹⁹	31.3 ⁷	51.53 ⁵⁷	22.7 ²⁹
27	9.34 ¹⁵	5.3 ⁴	27.39 ¹⁵	2.7 [—]	60.76 ¹⁶	32.0 ⁴	52.10 ⁴⁸	25.6 ³⁰
Oct. 7	9.49 ¹²	5.7 ⁶	27.54 ¹²	2.9 ²	60.92 ¹³	32.4 ²	52.58 ³⁹	28.6 ³²
17	9.61 ⁸	6.3 ⁸	27.66 ⁸	3.3 ⁷	61.05 ¹¹	32.6 ⁰	52.97 ²⁸	31.8 ³³
27	9.69 ⁵	7.1 ¹¹	27.74 ⁶	4.0 ⁸	61.16 ⁷	32.6 ¹	53.25 ¹⁸	35.1 ³²
Nov. 6	9.74 ³	8.2 ¹¹	27.80 ³	4.8 ¹⁰	61.23 ⁴	32.5 ³	53.43 ⁶	38.3 ³²
16	9.77 [—]	9.3 ¹²	27.83 ⁰	5.8 ¹¹	61.27 [—]	32.2 ⁴	53.49 [—]	41.5 ³⁰
26	9.76 ³	10.5 ¹³	27.83 ³	6.9 ¹⁰	61.28 [—]	31.8 ⁵	53.44 ¹⁶	44.5 ²⁸
Dec. 6	9.73 ⁶	11.8 ¹²	27.80 ⁶	7.9 ¹¹	61.27 ⁴	31.3 ⁶	53.28 ²⁸	47.3 ²⁴
16	9.67 ⁹	13.0 ¹¹	27.74 ⁸	9.0 ¹⁰	61.23 ⁸	30.7 ⁶	53.00 ³⁸	49.7 ²¹
26	9.58 ¹⁰	14.1 ¹⁰	27.66 ¹⁰	10.0 ⁹	61.15 ⁹	30.1 ⁷	52.62 ⁴⁸	51.8 ¹⁶
36	9.48	15.1	27.56	10.9	61.06	29.4	52.14	53.4
Mittl. Ort	5.64	25.0	23.64	21.7	56.80	15.4	42.34	23.4
	353)		35)		37)		38)	

1902	♋ Arietis. 5 ^m .6.		♌ Ceti. 4 ^m .0.		♍ Persei. 4 ^m .0.		♎ Ceti. 4 ^m .0.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. -
	2 ^h 33 ^m	21° 32'	2 ^h 34 ^m	0° 5'	2 ^h 37 ^m	48° 48'	2 ^h 39 ^m	14° 16'
Jan. 0	16.62	20.5	28.91	41.9	32.56	61.8	28.72	32.0
10	16.51	20.2	28.80	42.7	32.39	62.4	28.61	33.1
20	16.38	19.8	28.68	43.5	32.17	62.6	28.48	34.0
30	16.24	19.3	28.54	44.2	31.93	62.5	28.33	34.7
Febr. 9	16.07	18.6	28.39	44.7	31.68	61.9	28.17	35.1
19	15.90	17.9	28.23	45.1	31.43	61.0	28.00	35.2
März 1	15.75	17.1	28.09	45.3	31.19	59.7	27.84	35.0
11	15.61	16.2	27.95	45.4	30.97	58.2	27.69	34.6
21	15.49	15.4	27.84	45.3	30.79	56.4	27.57	33.8
31	15.40	14.6	27.76	44.9	30.66	54.5	27.48	32.8
April 10	15.36	14.0	27.71	44.4	30.58	52.6	27.42	31.5
20	15.36	13.5	27.71	43.7	30.57	50.6	27.40	30.0
30	15.41	13.2	27.75	42.7	30.63	48.8	27.43	28.2
Mai 10	15.53	13.1	27.85	41.3	30.77	47.0	27.51	26.0
20	15.68	13.3	27.98	39.9	30.97	45.7	27.63	23.9
30	15.87	13.7	28.16	38.4	31.23	44.6	27.79	21.7
Juni 9	16.11	14.3	28.37	36.7	31.53	43.9	28.00	19.4
19	16.38	15.2	28.61	34.9	31.88	43.5	28.24	17.1
29	16.67	16.3	28.88	33.0	32.27	43.5	28.50	14.8
Juli 9	16.98	17.5	29.16	31.2	32.68	43.8	28.78	12.7
19	17.30	18.9	29.46	29.4	33.11	44.5	29.07	10.7
29	17.62	20.4	29.76	27.7	33.54	45.5	29.37	9.0
Aug. 8	17.94	22.0	30.05	26.2	33.96	46.8	29.67	7.6
18	18.24	23.5	30.33	24.9	34.37	48.4	29.96	6.5
28	18.52	25.0	30.60	23.9	34.75	50.2	30.23	5.8
Sept. 7	18.78	26.5	30.85	23.1	35.11	52.2	30.48	5.4
17	19.02	27.9	31.07	22.5	35.44	54.4	30.71	5.5
27	19.24	29.1	31.26	22.3	35.74	56.6	30.91	5.9
Oct. 7	19.42	30.2	31.43	22.3	36.00	58.9	31.08	6.6
17	19.57	31.2	31.57	22.6	36.21	61.2	31.22	7.7
27	19.69	32.0	31.68	23.1	36.38	63.5	31.33	9.0
Nov. 6	19.79	32.7	31.76	23.8	36.50	65.7	31.41	10.5
16	19.84	33.2	31.81	24.6	36.58	67.8	31.45	12.1
26	19.87	33.5	31.83	25.5	36.61	69.8	31.47	13.8
Dec. 6	19.87	33.7	31.82	26.4	36.60	71.5	31.45	15.5
16	19.83	33.8	31.78	27.4	36.53	73.0	31.40	17.1
26	19.76	33.8	31.71	28.3	36.41	74.1	31.32	18.5
36	19.66	33.6	31.62	29.2	36.25	74.9	31.22	19.7
Mittl. Ort	14.95	16.3	27.51	39.5	30.12	50.6	27.43	25.1

1902	μ Ceti. 4 ^m .0.		41 Arietis. 3 ^m .8.		τ ² Eridani. 4 ^m .6.		τ Persei. 4 ^m .0.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +
	2 ^h 39 ^m	9° 41'	2 ^h 44 ^m	26° 51'	2 ^h 46 ^m	21° 24'	2 ^h 47 ^m	52° 21'
Jan. 0	40.03 ₁₀	62.4 ₆	14.57 ₁₁	29.3 ₁	36.84 ₁₃	38.3 ₁₃	20.95 ₁₉	52.8 ₈
10	39.93 ₁₂	61.8 ₆	14.46 ₁₃	29.2 ₃	36.71 ₁₅	39.6 ₁₀	20.76 ₂₃	53.6 ₅
20	39.81 ₁₄	61.2 ₆	14.33 ₁₆	28.9 ₄	36.56 ₁₆	40.6 ₇	20.53 ₂₆	54.1 ₀
30	39.67 ₁₆	60.6 ₆	14.17 ₁₇	28.5 ₆	36.40 ₁₈	41.3 ₃	20.27 ₂₈	54.1 ₅
Febr. 9	39.51 ₁₅	60.0 ₆	14.00 ₁₈	27.9 ₈	36.22 ₁₈	41.6 ₁	19.99 ₂₈	53.6 ₈
19	39.36 ₁₅	59.4 ₅	13.82 ₁₇	27.1 ₈	36.04 ₁₇	41.7 ₄	19.71 ₂₇	52.8 ₁₂
März 1	39.21 ₁₄	58.9 ₄	13.65 ₁₅	26.3 ₁₀	35.87 ₁₆	41.3 ₇	19.44 ₂₅	51.6 ₁₅
11	39.07 ₁₁	58.5 ₃	13.50 ₁₃	25.3 ₁₀	35.71 ₁₄	40.6 ₁₀	19.19 ₂₁	50.1 ₁₈
21	38.96 ₈	58.2 ₂	13.37 ₁₀	24.3 ₁₀	35.57 ₁₁	39.6 ₁₃	18.98 ₁₅	48.3 ₂₀
31	38.88 ₅	58.0 ₀	13.27 ₆	23.3 ₉	35.46 ₇	38.3 ₁₆	18.83 ₁₀	46.3 ₂₀
April 10	38.83 ₁	58.0 ₂	13.21 ₁	22.4 ₈	35.39 ₃	36.7 ₁₉	18.73 ₃	44.3 ₂₁
20	38.82 ₄	58.2 ₄	13.20 ₄	21.6 ₆	35.36 ₂	34.8 ₂₁	18.70 ₅	42.2 ₂₀
30	38.86 ₁₀	58.6 ₇	13.24 ₁₁	21.0 ₅	35.38 ₇	32.7 ₂₅	18.75 ₁₃	40.2 ₂₀
Mai 10	38.96 ₁₃	59.3 ₈	13.35 ₁₅	20.5 ₂	35.45 ₁₁	30.2 ₂₅	18.88 ₁₉	38.2 ₁₆
20	39.09 ₁₈	60.1 ₁₀	13.50 ₁₉	20.3 ₁	35.56 ₁₅	27.7 ₂₅	19.07 ₂₅	36.6 ₁₃
30	39.27 ₂₂	61.1 ₁₂	13.69 ₂₄	20.4 ₃	35.71 ₂₀	25.2 ₂₆	19.32 ₃₂	35.3 ₉
Juni 9	39.49 ₂₅	62.3 ₁₄	13.93 ₂₇	20.7 ₆	35.91 ₂₃	22.6 ₂₅	19.64 ₃₆	34.4 ₇
19	39.74 ₂₇	63.7 ₁₅	14.20 ₂₉	21.3 ₈	36.14 ₂₆	20.1 ₂₅	20.00 ₄₁	33.7 ₂
29	40.01 ₂₉	65.2 ₁₆	14.49 ₃₂	22.1 ₁₀	36.40 ₂₉	17.6 ₂₃	20.41 ₄₃	33.5 ₁
Juli 9	40.30 ₃₀	66.8 ₁₆	14.81 ₃₃	23.1 ₁₂	36.69 ₃₀	15.3 ₂₀	20.84 ₄₄	33.6 ₅
19	40.60 ₃₁	68.4 ₁₆	15.14 ₃₃	24.3 ₁₃	36.99 ₃₀	13.3 ₁₇	21.28 ₄₆	34.1 ₈
29	40.91 ₃₀	70.0 ₁₅	15.47 ₃₃	25.6 ₁₅	37.29 ₃₀	11.6 ₁₄	21.74 ₄₅	34.9 ₁₂
Aug. 8	41.21 ₂₉	71.5 ₁₄	15.80 ₃₂	27.1 ₁₅	37.59 ₃₀	10.2 ₁₀	22.19 ₄₄	36.1 ₁₅
18	41.50 ₂₇	72.9 ₁₃	16.12 ₃₀	28.6 ₁₅	37.89 ₂₈	9.2 ₆	22.63 ₄₂	37.6 ₁₇
28	41.77 ₂₅	74.2 ₁₁	16.42 ₂₈	30.1 ₁₅	38.17 ₂₆	8.6 ₁	23.05 ₄₀	39.3 ₁₉
Sept. 7	42.02 ₂₃	75.3 ₉	16.70 ₂₆	31.6 ₁₅	38.43 ₂₄	8.5 ₃	23.45 ₃₆	41.2 ₂₁
17	42.25 ₂₁	76.2 ₇	16.96 ₂₃	33.1 ₁₄	38.67 ₂₁	8.8 ₇	23.81 ₃₂	43.3 ₂₃
27	42.46 ₁₈	76.9 ₅	17.19 ₂₀	34.5 ₁₃	38.88 ₁₈	9.5 ₁₁	24.13 ₂₉	45.6 ₂₄
Oct. 7	42.64 ₁₅	77.4 ₂	17.39 ₁₇	35.8 ₁₂	39.06 ₁₅	10.6 ₁₄	24.42 ₂₄	48.0 ₂₄
17	42.79 ₁₂	77.6 ₁	17.56 ₁₄	37.0 ₁₁	39.21 ₁₂	12.0 ₁₇	24.66 ₂₀	50.4 ₂₄
27	42.91 ₉	77.7 ₁	17.70 ₁₁	38.1 ₁₀	39.33 ₈	13.7 ₁₈	24.86 ₁₅	52.8 ₂₃
Nov. 6	43.00 ₆	77.6 ₂	17.81 ₇	39.1 ₈	39.41 ₄	15.5 ₂₀	25.01 ₁₀	55.1 ₂₃
16	43.06 ₃	77.4 ₄	17.88 ₄	39.9 ₇	39.45 ₁	17.5 ₂₁	25.11 ₄	57.4 ₂₂
26	43.09 ₀	77.0 ₄	17.92 ₁	40.6 ₅	39.46 ₂	19.6 ₂₀	25.15 ₁	59.6 ₁₉
Dec. 6	43.09 ₃	76.6 ₅	17.93 ₃	41.1 ₄	39.44 ₅	21.6 ₁₈	25.14 ₇	61.5 ₁₇
16	43.06 ₆	76.1 ₆	17.90 ₇	41.5 ₂	39.39 ₈	23.4 ₁₇	25.07 ₁₂	63.2 ₁₄
26	43.00 ₉	75.5 ₆	17.83 ₁₀	41.7 ₀	39.31 ₁₂	25.1 ₁₅	24.95 ₁₇	64.6 ₁₀
36	42.91	74.9	17.73	41.7	39.19	26.6	24.78	65.6
Mittl. Ort	38.50	62.1	12.75	24.1	35.55	29.3	18.26	41.6
	(42)		(44)		(548)		(45)	

1902	η Eridani. 3 ^m .o.		47 H. Cephei. 6 ^m .o.		α Ceti. 2 ^m .3.		γ Persei. 3 ^m .o.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	2 ^h 51 ^m	9° 16'	2 ^h 53 ^m	79° 1'	2 ^h 57 ^m	3° 42'	2 ^h 57 ^m	53° 7'
Jan. 0	39.73 ₁₀	82.8 ₁₁	10.10 ₇₉	69.3 ₁₈	10.81 ₉	17.3 ₈	44.44 ₁₉	33.0 ₉
10	39.63 ₁₃	83.9 ₉	9.31 ₉₁	71.1 ₁₂	10.72 ₁₂	16.5 ₇	44.25 ₂₃	33.9 ₆
20	39.50 ₁₅	84.8 ₇	8.40 ₁₀₀	72.3 ₆	10.60 ₁₄	15.8 ₇	44.02 ₂₆	34.5 ₁
30	39.35 ₁₆	85.5 ₅	7.40 ₁₀₅	72.9 ₁	10.46 ₁₅	15.1 ₆	43.76 ₂₉	34.6 _—
Febr. 9	39.19 ₁₆	86.0 ₃	6.35 ₁₀₅	73.0 ₆	10.31 ₁₆	14.5 ₄	43.47 ₂₉	34.3 ₃
19	39.03 ₁₆	86.3 ₀	5.30 ₁₀₀	72.4 ₁₂	10.15 ₁₅	14.1 ₄	43.18 ₂₈	33.6 ₁₁
März 1	38.87 ₁₅	86.3 ₂	4.30 ₉₂	71.2 ₁₇	10.00 ₁₅	13.7 ₂	42.90 ₂₆	32.5 ₁₄
11	38.72 ₁₂	86.1 ₅	3.38 ₇₉	69.5 ₂₁	9.85 ₁₃	13.5 ₀	42.64 ₂₂	31.1 ₁₇
21	38.60 ₁₀	85.6 ₈	2.59 ₆₃	67.4 ₂₅	9.72 ₉	13.5 ₁	42.42 ₁₈	29.4 ₁₉
31	38.50 ₇	84.8 ₁₀	1.96 ₄₃	64.9 ₂₈	9.63 ₇	13.6 ₃	42.24 ₁₂	27.5 ₂₁
April 10	38.43 ₂	83.8 ₁₂	1.53 ₂₂	62.1 ₂₉	9.56 ₂	13.9 ₅	42.12 ₄	25.4 ₂₁
20	38.41 ₁	82.6 ₁₄	1.31 ₁	59.2 ₂₉	9.54 ₂	14.4 ₇	42.08 _—	23.3 ₂₀
30	38.42 ₇	81.2 ₁₉	1.30 ₆	56.3 ₃₁	9.56 ₇	15.1 ₁₀	42.11 ₃	21.3 ₂₀
Mai 10	38.49 ₁₂	79.3 ₁₈	1.55 ₄₄	53.2 ₂₇	9.63 ₁₂	16.1 ₁₂	42.22 ₁₈	19.3 ₁₇
20	38.61 ₁₅	77.5 ₂₀	1.99 ₆₄	50.5 ₂₅	9.75 ₁₆	17.3 ₁₃	42.40 ₂₅	17.6 ₁₄
30	38.76 ₂₀	75.5 ₂₁	2.63 ₈₂	48.0 ₂₁	9.91 ₁₉	18.6 ₁₄	42.65 ₃₁	16.2 ₁₁
Juni 9	38.96 ₂₃	73.4 ₂₁	3.45 ₉₆	45.9 ₁₇	10.10 ₂₃	20.0 ₁₆	42.96 ₃₆	15.1 ₇
19	39.19 ₂₅	71.3 ₂₁	4.41 ₁₁₀	44.2 ₁₂	10.33 ₂₆	21.6 ₁₇	43.32 ₄₀	14.4 ₄
29	39.44 ₂₈	69.2 ₂₁	5.51 ₁₁₈	43.0 ₈	10.59 ₂₈	23.3 ₁₇	43.72 ₄₃	14.0 ₁
Juli 9	39.72 ₂₉	67.1 ₁₉	6.69 ₁₂₆	42.2 ₃	10.87 ₂₉	25.0 ₁₆	44.15 ₄₅	13.9 _—
19	40.01 ₂₉	65.2 ₁₇	7.95 ₁₂₉	41.9 ₂	11.16 ₂₉	26.6 ₁₆	44.60 ₄₆	14.3 ₇
29	40.30 ₃₀	63.5 ₁₄	9.24 ₁₃₀	42.1 ₇	11.45 ₃₀	28.2 ₁₅	45.06 ₄₆	15.0 ₁₀
Aug. 8	40.60 ₂₈	62.1 ₁₂	10.54 ₁₂₈	42.8 ₁₁	11.75 ₂₉	29.7 ₁₃	45.52 ₄₅	16.0 ₁₃
18	40.88 ₂₇	60.9 ₉	11.82 ₁₂₄	43.9 ₁₅	12.04 ₂₈	31.0 ₁₁	45.97 ₄₄	17.3 ₁₆
28	41.15 ₂₆	60.0 ₅	13.06 ₁₁₈	45.4 ₂₀	12.32 ₂₆	32.1 ₉	46.41 ₄₁	18.9 ₁₈
Sept. 7	41.41 ₂₃	59.5 ₂	14.24 ₁₀₉	47.4 ₂₃	12.58 ₂₃	33.0 ₆	46.82 ₃₈	20.7 ₂₀
17	41.64 ₂₁	59.3 ₂	15.33 ₉₈	49.7 ₂₇	12.81 ₂₁	33.6 ₄	47.20 ₃₄	22.7 ₂₂
27	41.85 ₁₈	59.5 ₅	16.31 ₈₅	52.4 ₃₀	13.02 ₁₉	34.0 ₁	47.54 ₃₁	24.9 ₂₃
Oct. 7	42.03 ₁₆	60.0 ₈	17.16 ₇₁	55.4 ₃₁	13.21 ₁₆	34.1 ₁	47.85 ₂₆	27.2 ₂₄
17	42.19 ₁₂	60.8 ₁₁	17.87 ₅₆	58.5 ₃₃	13.37 ₁₄	34.0 ₃	48.11 ₂₂	29.6 ₂₄
27	42.31 ₁₀	61.9 ₁₂	18.43 ₃₈	61.8 ₃₄	13.51 ₁₀	33.7 ₅	48.33 ₁₇	32.0 ₂₄
Nov. 6	42.41 ₆	63.1 ₁₄	18.81 ₁₉	65.2 ₃₄	13.61 ₈	33.2 ₆	48.50 ₁₂	34.4 ₂₃
16	42.47 ₂	64.5 ₁₅	19.00 ₁	68.6 ₃₂	13.69 ₄	32.6 ₇	48.62 ₆	36.7 ₂₂
26	42.49 ₀	66.0 ₁₄	19.01 ₁₉	71.8 ₃₁	13.73 ₁	31.9 ₈	48.68 ₀	38.9 ₂₀
Dec. 6	42.49 ₃	67.4 ₁₄	18.82 ₃₈	74.9 ₂₉	13.74 ₂	31.1 ₉	48.68 ₅	40.9 ₁₇
16	42.46 ₆	68.8 ₁₄	18.44 ₅₆	77.8 ₂₅	13.72 ₅	30.2 ₈	48.63 ₁₁	42.6 ₁₅
26	42.40 ₁₀	70.2 ₁₂	17.88 ₇₂	80.3 ₂₀	13.67 ₈	29.4 ₈	48.52 ₁₇	44.1 ₁₁
36	42.30	71.4	17.16	82.3	13.59	28.6	48.35	45.2
Mittl. Ort	38.33	77.0	2.34	54.8	9.26	19.5	41.62	22.5
	46)		358)		47)		48)	

1902	ρ Persei. 3.4...4 ^m .2.		β Persei. 2.2...3 ^m .7.		δ Arietis. 4 ^m .I.		48 H. Cephei. 6 ^m .I.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	2 ^h 58 ^m	38° 27'	3 ^h 1 ^m	40° 34'	3 ^h 6 ^m	19° 21'	3 ^h 7 ^m	77° 22'
Jan. 0	55.79 ₁₂	46.2 ₄	49.58 ₁₃	49.4 ₅	3.18 ₉	24.2 ₂	58.79 ₆₃	43.5 ₁₈
10	55.67 ₁₆	46.6 ₁	49.45 ₁₆	49.9 ₂	3.09 ₁₂	24.0 ₄	58.16 ₇₆	45.3 ₁₄
20	55.51 ₁₉	46.7 _—	49.29 ₁₉	50.1 _—	2.97 ₁₅	23.6 ₄	57.40 ₈₄	46.7 ₈
30	55.32 ₂₀	46.6 ₁	49.10 ₂₁	50.0 ₄	2.82 ₁₆	23.2 ₅	56.56 ₉₀	47.5 ₂
Febr. 9	55.12 ₂₁	46.1 ₇	48.89 ₂₂	49.6 ₇	2.66 ₁₇	22.7 ₆	55.66 ₉₁	47.7 _—
19	54.91 ₂₁	45.4 ₉	48.67 ₂₁	48.9 ₉	2.49 ₁₆	22.1 ₇	54.75 ₈₉	47.3 ₁₀
März 1	54.70 ₁₉	44.5 ₁₂	48.46 ₂₀	48.0 ₁₂	2.33 ₁₆	21.4 ₆	53.86 ₈₂	46.3 ₁₅
11	54.51 ₁₆	43.3 ₁₃	48.26 ₁₈	46.8 ₁₃	2.17 ₁₄	20.8 ₇	53.04 ₇₂	44.8 ₂₀
21	54.35 ₁₃	42.0 ₁₄	48.08 ₁₃	45.5 ₁₅	2.03 ₁₁	20.1 ₅	52.32 ₅₉	42.8 ₂₄
31	54.22 ₈	40.6 ₁₅	47.95 ₉	44.0 ₁₅	1.92 ₇	19.6 ₅	51.73 ₄₂	40.4 ₂₆
April 10	54.14 ₃	39.1 ₁₄	47.86 ₄	42.5 ₁₅	1.85 ₃	19.1 ₄	51.31 ₂₅	37.8 ₂₈
20	54.11 _—	37.7 ₁₃	47.82 _—	41.0 ₁₄	1.82 _—	18.7 ₂	51.06 ₆	35.0 ₂₈
30	54.13 ₁₀	36.4 ₁₂	47.85 ₉	39.6 ₁₄	1.84 ₇	18.5 _—	51.00 ₁₃	32.2 ₂₉
Mai 10	54.23 ₁₅	35.2 ₉	47.94 ₁₅	38.2 ₁₀	1.91 ₁₂	18.4 _—	51.13 ₃₆	29.3 ₂₉
20	54.38 ₂₀	34.3 ₆	48.09 ₂₀	37.2 ₈	2.03 ₁₇	18.6 ₅	51.49 ₅₂	26.4 ₂₅
30	54.58 ₂₅	33.7 ₄	48.29 ₂₅	36.4 ₅	2.20 ₂₀	19.1 ₆	52.01 ₆₇	23.9 ₂₂
Juni 9	54.83 ₂₉	33.3 ₁	48.54 ₃₀	35.9 ₂	2.40 ₂₄	19.7 ₈	52.68 ₈₁	21.7 ₁₈
19	55.12 ₃₃	33.2 _—	48.84 ₃₃	35.7 _—	2.64 ₂₇	20.5 ₉	53.49 ₉₃	19.9 ₁₄
29	55.45 ₃₄	33.4 ₅	49.17 ₃₅	35.8 ₄	2.91 ₂₉	21.4 ₁₂	54.42 ₁₀₃	18.5 ₁₀
Juli 9	55.79 ₃₆	33.9 ₈	49.52 ₃₇	36.2 ₇	3.20 ₃₁	22.6 ₁₃	55.45 ₁₀₉	17.5 ₄
19	56.15 ₃₇	34.7 ₁₀	49.89 ₃₈	36.9 ₉	3.51 ₃₂	23.9 ₁₃	56.54 ₁₁₃	17.1 ₁
29	56.52 ₃₇	35.7 ₁₂	50.27 ₃₈	37.8 ₁₂	3.83 ₃₁	25.2 ₁₃	57.67 ₁₁₅	17.0 _—
Aug. 8	56.89 ₃₆	36.9 ₁₄	50.65 ₃₇	39.0 ₁₃	4.14 ₃₁	26.5 ₁₄	58.82 ₁₁₅	17.5 ₅
18	57.25 ₃₄	38.3 ₁₅	51.02 ₃₅	40.3 ₁₅	4.45 ₂₉	27.9 ₁₃	59.97 ₁₁₁	18.4 ₁₄
28	57.59 ₃₃	39.8 ₁₆	51.37 ₃₄	41.8 ₁₆	4.74 ₂₈	29.2 ₁₂	61.08 ₁₀₆	19.8 ₁₈
Sept. 7	57.92 ₃₀	41.4 ₁₇	51.71 ₃₁	43.4 ₁₈	5.02 ₂₆	30.4 ₁₂	62.14 ₁₀₀	21.6 ₂₁
17	58.22 ₂₇	43.1 ₁₈	52.02 ₂₈	45.2 ₁₈	5.28 ₂₃	31.6 ₁₀	63.14 ₉₁	23.7 ₂₅
27	58.49 ₂₅	44.9 ₁₇	52.30 ₂₅	47.0 ₁₈	5.51 ₂₁	32.6 ₈	64.05 ₈₁	26.2 ₂₇
Oct. 7	58.74 ₂₁	46.6 ₁₇	52.55 ₂₂	48.8 ₁₈	5.72 ₁₉	33.4 ₇	64.86 ₆₉	28.9 ₃₀
17	58.95 ₁₇	48.3 ₁₇	52.77 ₁₈	50.6 ₁₇	5.91 ₁₅	34.1 ₆	65.55 ₅₆	31.9 ₃₂
27	59.12 ₁₄	50.0 ₁₆	52.95 ₁₅	52.3 ₁₇	6.06 ₁₃	34.7 ₄	66.11 ₄₁	35.1 ₃₃
Nov. 6	59.26 ₁₀	51.6 ₁₅	53.10 ₁₁	54.0 ₁₇	6.19 ₉	35.1 ₃	66.52 ₂₅	38.4 ₃₃
16	59.36 ₆	53.1 ₁₃	53.21 ₆	55.7 ₁₅	6.28 ₆	35.4 ₂	66.77 ₈	41.7 ₃₂
26	59.42 ₂	54.4 ₁₂	53.27 ₂	57.2 ₁₃	6.34 ₃	35.6 ₁	66.85 _—	44.9 ₃₁
Dec. 6	59.44 _—	55.6 ₁₁	53.29 _—	58.5 ₁₁	6.37 _—	35.7 ₀	66.77 ₂₆	48.0 ₂₈
16	59.42 ₇	56.7 ₈	53.26 ₆	59.6 ₉	6.36 ₄	35.7 ₁	66.51 ₄₂	50.8 ₂₅
26	59.35 ₁₁	57.5 ₅	53.20 ₁₁	60.5 ₇	6.32 ₈	35.6 ₂	66.09 ₅₇	53.3 ₂₂
36	59.24	58.0	53.09	61.2	6.24	35.4	65.52	55.5
Mittl. Ort	53.59	39.0	47.30	41.9	1.37	22.4	51.66	30.4
	49)		50)		359)		360)	

1902	12 Eridani. 3 ^m .3.		α Persei. 2 ^m .0.		ο Tauri. 3 ^m .6.		2 H. Camelop. 4 ^m .6.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	3 ^h 7 ^m	29° 22'	3 ^h 17 ^m	49° 30'	3 ^h 19 ^m	8° 40'	3 ^h 21 ^m	59° 35'
Jan. 0	55.84 ¹⁴	35.2 ¹⁶	22.07 ¹⁵	53.3 ¹⁰	34.00 ⁸	61.2 ⁶	11.12 ²¹	66.7 ¹³
10	55.70 ¹⁶	36.8 ¹²	21.92 ¹⁹	54.3 ⁶	33.92 ¹¹	60.6 ⁷	10.91 ²⁶	68.0 ¹⁰
20	55.54 ¹⁸	38.0 ⁸	21.73 ²³	54.9 ²	33.81 ¹⁴	59.9 ⁶	10.65 ³¹	69.0 ⁵
30	55.36 ¹⁹	38.8 ⁴	21.50 ²⁵	55.1 ¹	33.67 ¹⁵	59.3 ⁵	10.34 ³⁵	69.5 ¹
Febr. 9	55.17 ²¹	39.2 ⁰	21.25 ²⁷	55.0 ⁵	33.52 ¹⁶	58.8 ⁵	9.99 ³⁶	69.6 ⁴
19	54.96 ²⁰	39.2 ⁴	20.98 ²⁷	54.5 ⁹	33.36 ¹⁷	58.3 ⁴	9.63 ³⁵	69.2 ⁹
März 1	54.76 ¹⁹	38.8 ⁸	20.71 ²⁵	53.6 ¹²	33.19 ¹⁶	57.9 ⁴	9.28 ³⁴	68.3 ¹²
11	54.57 ¹⁷	38.0 ¹²	20.46 ²²	52.4 ¹⁵	33.03 ¹⁴	57.5 ²	8.94 ³⁰	67.1 ¹⁶
21	54.40 ¹⁴	36.8 ¹⁵	20.24 ¹⁸	50.9 ¹⁶	32.89 ¹¹	57.3 ¹	8.64 ²⁵	65.5 ²⁰
31	54.26 ¹¹	35.3 ¹⁹	20.06 ¹³	49.3 ¹⁸	32.78 ⁸	57.2 ⁰	8.39 ¹⁸	63.5 ²¹
April 10	54.15 ⁶	33.4 ²²	19.93 ⁷	47.5 ¹⁹	32.70 ⁵	57.2 ²	8.21 ¹⁰	61.4 ²²
20	54.09 ²	31.2 ²⁵	19.86 ⁰	45.6 ¹⁸	32.65 ⁰	57.4 ⁴	8.11 ²	59.2 ²³
30	54.07 [—]	28.7 ²⁶	19.86 ⁷	43.8 ¹⁸	32.65 ⁵	57.8 ⁶	8.09 [—]	56.9 ²²
Mai 10	54.10 ³	26.1 ³⁰	19.93 ¹⁶	42.0 ¹⁷	32.70 ¹¹	58.4 ⁹	8.16 ⁷	54.7 ²³
20	54.20 ¹⁰	23.1 ³⁰	20.09 ¹³	40.3 ¹⁷	32.81 ¹¹	59.3 ⁹	8.33 ¹⁷	52.4 ²³
30	54.33 ¹⁸	20.2 ²⁸	20.30 ²⁶	39.0 ¹⁰	32.95 ¹⁸	60.2 ¹²	8.57 ³²	50.6 ¹⁶
Juni 9	54.51 ²²	17.4 ²⁸	20.56 ³²	38.0 ⁸	33.13 ²²	61.4 ¹²	8.89 ³⁸	49.0 ¹²
19	54.73 ²⁵	14.6 ²⁷	20.88 ³⁶	37.2 ⁵	33.35 ²⁵	62.6 ¹⁴	9.27 ⁴⁴	47.8 ⁹
29	54.98 ²⁸	11.9 ²⁵	21.24 ³⁹	36.7 ¹	33.60 ²⁷	64.0 ¹⁵	9.71 ⁴⁷	46.9 ⁵
Juli 9	55.26 ³⁰	9.4 ²²	21.63 ⁴²	36.6 [—]	33.87 ²⁸	65.5 ¹⁵	10.18 ⁵¹	46.4 ¹
19	55.56 ³¹	7.2 ¹⁸	22.05 ⁴³	36.9 ⁵	34.15 ³⁰	67.0 ¹⁴	10.69 ⁵³	46.3 [—]
29	55.87 ³¹	5.4 ¹⁵	22.48 ⁴³	37.4 ⁸	34.45 ³⁰	68.4 ¹⁴	11.22 ⁵⁴	46.5 ⁶
Aug. 8	56.18 ³²	3.9 ¹⁰	22.91 ⁴³	38.2 ¹¹	34.75 ²⁹	69.8 ¹³	11.76 ⁵³	47.1 ¹⁰
18	56.50 ³⁰	2.9 ⁵	23.34 ⁴¹	39.3 ¹⁴	35.04 ²⁹	71.1 ¹¹	12.29 ⁵²	48.1 ¹²
28	56.80 ²⁹	2.4 ¹	23.75 ⁴⁰	40.7 ¹⁶	35.33 ²⁷	72.2 ¹⁰	12.81 ⁵⁰	49.3 ¹⁶
Sept. 7	57.09 ²⁷	2.3 ⁵	24.15 ³⁷	42.3 ¹⁷	35.60 ²⁵	73.2 ⁷	13.31 ⁴⁷	50.9 ¹⁹
17	57.36 ²³	2.8 ⁹	24.52 ³⁵	44.0 ¹⁹	35.85 ²³	73.9 ⁵	13.78 ⁴⁴	52.8 ²¹
27	57.59 ²¹	3.7 ¹³	24.87 ³¹	45.9 ²⁰	36.08 ²¹	74.4 ³	14.22 ³⁹	54.9 ²²
Oct. 7	57.80 ¹⁷	5.0 ¹⁷	25.18 ²⁷	47.9 ²¹	36.29 ¹⁹	74.7 ¹	14.61 ³⁵	57.1 ²⁴
17	57.97 ¹⁴	6.7 ²¹	25.45 ²³	50.0 ²¹	36.48 ¹⁶	74.8 [—]	14.96 ³⁰	59.5 ²⁵
27	58.11 ¹⁰	8.8 ²³	25.68 ¹⁹	52.1 ²¹	36.64 ¹³	74.7 ²	15.26 ²³	62.0 ²⁶
Nov. 6	58.21 ⁶	11.1 ²⁴	25.87 ¹⁴	54.2 ²¹	36.77 ¹⁰	74.5 ⁴	15.49 ¹⁷	64.6 ²⁵
16	58.27 ³	13.5 ²⁴	26.01 ⁹	56.3 ¹⁹	36.87 ⁷	74.1 ⁵	15.66 ¹¹	67.1 ²⁵
26	58.30 [—]	15.9 ²⁴	26.10 ⁴	58.2 ¹⁹	36.94 ³	73.6 ⁵	15.77 ⁴	69.6 ²⁴
Dec. 6	58.28 ⁵	18.3 ²²	26.14 [—]	60.1 ¹⁶	36.97 ⁰	73.1 ⁶	15.81 [—]	72.0 ²¹
16	58.23 ⁸	20.5 ²⁰	26.12 ⁷	61.7 ¹⁴	36.97 ³	72.5 ⁷	15.77 ¹¹	74.1 ¹⁹
26	58.15 ¹²	22.5 ¹⁷	26.05 ¹²	63.1 ¹²	36.94 ⁷	71.8 ⁶	15.66 ¹⁷	76.0 ¹⁶
36	58.03	24.2	25.93	64.3	36.87	71.2	15.49	77.6
Mittl. Ort	54.48	23.9	19.33	45.1	32.29	63.0	7.66	57.0
	549)		52)		53)		361)	

1902	f Tauri. 4 ^m .o.		ε Eridani. 3 ^m .o.		δ Persei. 3 ^m .I.		ν Persei. 4 ^m .o.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	3 ^h 25 ^m	12° 35'	3 ^h 28 ^m	9° 47'	3 ^h 35 ^m	47° 28'	3 ^h 38 ^m	42° 16'
Jan. 0	29.41 ⁷	62.7 ⁵	20.29 ⁹	31.2 ¹³	59.35 ¹²	34.1 ¹⁰	34.55 ¹⁰	13.7 ⁸
10	29.34 ¹¹	62.2 ⁵	20.20 ¹¹	32.5 ¹¹	59.23 ¹⁷	35.1 ⁷	34.45 ¹⁵	14.5 ⁵
20	29.23 ¹³	61.7 ⁵	20.09 ¹⁵	33.6 ⁸	59.06 ²¹	35.8 ³	34.30 ¹⁸	15.0 ²
30	29.10 ¹⁵	61.2 ⁵	19.94 ¹⁶	34.4 ⁶	58.85 ²⁴	36.1 ⁰	34.12 ²¹	15.2 ⁰
Febr. 9	28.95 ¹⁷	60.7 ⁵	19.78 ¹⁷	35.0 ⁴	58.61 ²⁵	36.1 ³	33.91 ²³	15.2 ⁴
19	28.78 ¹⁷	60.2 ⁵	19.61 ¹⁷	35.4 ¹	58.36 ²⁶	35.8 ⁷	33.68 ²³	14.8 ⁶
März 1	28.61 ¹⁶	59.7 ⁵	19.44 ¹⁷	35.5 ¹	58.10 ²⁵	35.1 ¹⁰	33.45 ²³	14.2 ⁹
11	28.45 ¹⁵	59.2 ³	19.27 ¹⁶	35.4 ⁴	57.85 ²³	34.1 ¹³	33.22 ²¹	13.3 ¹¹
21	28.30 ¹²	58.9 ³	19.11 ¹³	35.0 ⁷	57.62 ¹⁹	32.8 ¹⁵	33.01 ¹⁷	12.2 ¹⁴
31	28.18 ⁹	58.6 ¹	18.98 ¹⁰	34.3 ⁹	57.43 ¹⁴	31.3 ¹⁶	32.84 ¹³	10.8 ¹⁴
April 10	28.09 ⁴	58.5 ⁰	18.88 ⁶	33.4 ¹¹	57.29 ⁹	29.7 ¹⁷	32.71 ⁸	9.4 ¹⁵
20	28.05 ⁰	58.5 ¹	18.82 ²	32.3 ¹⁴	57.20 ²	28.0 ¹⁷	32.63 ²	7.9 ¹⁴
30	28.05 ⁴	58.6 ⁴	18.80 ³	30.9 ¹⁶	57.18 ⁴	26.3 ¹⁶	32.61 ²	6.5 ¹⁴
Mai 10	28.09 ¹⁵	59.0 ⁶	18.83 ¹⁵	29.3 ⁸	57.22 ¹²	24.7 ¹⁷	32.65 ¹¹	5.1 ¹⁴
20	28.19 ¹⁴	59.6 ⁷	18.91 ¹²	27.3 ²⁰	57.34 ¹⁸	23.0 ¹³	32.76 ¹⁷	3.7 ¹⁰
30	28.33 ¹⁸	60.3 ⁹	19.03 ¹⁶	25.3 ²⁰	57.52 ²⁴	21.7 ¹¹	32.93 ²¹	2.7 ⁸
Juni 9	28.51 ²²	61.2 ¹¹	19.19 ¹⁹	23.3 ²²	57.76 ²⁹	20.6 ⁸	33.14 ²⁷	1.9 ⁵
19	28.73 ²⁵	62.3 ¹¹	19.38 ²³	21.1 ²¹	58.05 ³³	19.8 ⁵	33.41 ³⁰	1.4 ³
29	28.98 ²⁷	63.4 ¹³	19.61 ²⁶	19.0 ²⁰	58.38 ³⁷	19.3 ²	33.71 ³⁴	1.1 ⁰
Juli 9	29.25 ²⁹	64.7 ¹⁴	19.87 ²⁷	17.0 ¹⁹	58.75 ³⁹	19.1 ¹	34.05 ³⁶	1.1 ²
19	29.54 ³⁰	66.1 ¹³	20.14 ²⁹	15.1 ¹⁸	59.14 ⁴¹	19.2 ⁴	34.41 ³⁸	1.3 ⁵
29	29.84 ³⁰	67.4 ¹⁴	20.43 ²⁸	13.3 ¹⁵	59.55 ⁴²	19.6 ⁷	34.79 ³⁹	1.8 ⁷
Aug. 8	30.14 ³⁰	68.8 ¹²	20.71 ²⁹	11.8 ¹²	59.97 ⁴¹	20.3 ⁹	35.18 ³⁸	2.5 ¹⁰
18	30.44 ²⁹	70.0 ¹²	21.00 ²⁸	10.6 ⁹	60.38 ⁴¹	21.2 ¹¹	35.56 ³⁷	3.5 ¹¹
28	30.73 ²⁷	71.2 ¹⁰	21.28 ²⁷	9.7 ⁶	60.79 ³⁹	22.3 ¹³	35.93 ³⁷	4.6 ¹³
Sept. 7	31.00 ²⁷	72.2 ⁸	21.55 ²⁵	9.1 ²	61.18 ³⁸	23.6 ¹⁶	36.30 ³⁵	5.9 ¹⁴
17	31.27 ²⁴	73.0 ⁷	21.80 ²³	8.9 ²	61.56 ³⁵	25.2 ¹⁶	36.65 ³²	7.3 ¹⁵
27	31.51 ²²	73.7 ⁴	22.03 ²¹	9.1 ⁵	61.91 ³²	26.8 ¹⁸	36.97 ³⁰	8.8 ¹⁶
Oct. 7	31.73 ¹⁹	74.1 ³	22.24 ¹⁸	9.6 ⁹	62.23 ²⁸	28.6 ¹⁸	37.27 ²⁷	10.4 ¹⁶
17	31.92 ¹⁶	74.4 ¹	22.42 ¹⁶	10.5 ¹¹	62.51 ²⁵	30.4 ¹⁹	37.54 ²³	12.0 ¹⁶
27	32.08 ¹⁴	74.5 ⁰	22.58 ¹²	11.6 ¹³	62.76 ²¹	32.3 ¹⁹	37.77 ²⁰	13.6 ¹⁶
Nov. 6	32.22 ¹¹	74.5 ¹	22.70 ¹⁰	12.9 ¹⁵	62.97 ¹⁶	34.2 ¹⁹	37.97 ¹⁶	15.2 ¹⁶
16	32.33 ⁸	74.4 ³	22.80 ⁶	14.4 ¹⁶	63.13 ¹²	36.1 ¹⁹	38.13 ¹¹	16.8 ¹⁶
26	32.41 ⁵	74.1 ³	22.86 ³	16.0 ¹⁶	63.25 ⁷	38.0 ¹⁷	38.24 ⁷	18.4 ¹⁴
Dec. 6	32.46 ⁰	73.8 ⁴	22.89 ⁰	17.6 ¹⁶	63.32 ¹	39.7 ¹⁶	38.31 ²	19.8 ¹³
16	32.46 ²	73.4 ⁴	22.89 ⁴	19.2 ¹⁵	63.33 ⁵	41.3 ¹³	38.33 ³	21.1 ¹²
26	32.44 ⁷	73.0 ⁵	22.85 ⁸	20.7 ¹³	63.28 ⁹	42.6 ¹²	38.30 ⁸	22.3 ⁹
36	32.37	72.5	22.77	22.0	63.19	43.8	38.22	23.2
Mittl. Ort	27.63	63.7	18.72	24.3	56.60	27.7	32.02	8.6

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57)

59)

1902	5 H. Camelop. 4 ^m .3.		γ Tauri. 3 ^m .0.		ε ⁶ Eridani. 4 ^m .0.		ζ Persei. 3 ^m .0.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +
	3 ^h 40 ^m	71° 1'	3 ^h 41 ^m	23° 48'	3 ^h 42 ^m	23° 32'	3 ^h 47 ^m	31° 35'
Jan. 0	5.39 ³²	59.3 ²⁰	41.43 ⁷	9.3 ¹	39.42 ¹⁰	32.5 ¹⁸	60.41 ⁷	36.4 ⁴
10	5.07 ⁴³	61.3 ¹⁵	41.36 ¹¹	9.2 ¹	39.32 ¹⁴	34.3 ¹⁴	60.34 ¹²	36.8 ²
20	4.64 ⁵¹	62.8 ¹⁰	41.25 ¹⁴	9.1 ²	39.18 ¹⁶	35.7 ¹¹	60.22 ¹⁵	37.0 ⁰
30	4.13 ⁵⁶	63.8 ⁵	41.11 ¹⁶	8.9 ³	39.02 ¹⁸	36.8 ⁸	60.07 ¹⁷	37.0 ²
Febr. 9	3.57 ⁵⁹	64.3 ⁰	40.95 ¹⁸	8.6 ⁵	38.84 ¹⁹	37.6 ³	59.90 ¹⁹	36.8 ⁴
19	2.98 ⁵⁹	64.3 ⁶	40.77 ¹⁸	8.1 ⁵	38.65 ²⁰	37.9 ⁰	59.71 ²⁰	36.4 ⁵
März 1	2.39 ⁵⁷	63.7 ¹¹	40.59 ¹⁸	7.6 ⁶	38.45 ²⁰	37.9 ⁴	59.51 ²⁰	35.9 ⁷
11	1.82 ⁵³	62.6 ¹⁶	40.41 ¹⁷	7.0 ⁷	38.25 ¹⁸	37.5 ⁷	59.31 ¹⁸	35.2 ⁸
21	1.29 ⁴⁴	61.0 ¹⁹	40.24 ¹⁴	6.3 ⁶	38.07 ¹⁶	36.8 ¹¹	59.13 ¹⁶	34.4 ⁹
31	0.85 ³⁵	59.1 ²³	40.10 ¹⁰	5.7 ⁷	37.91 ¹²	35.7 ¹⁴	58.97 ¹²	33.5 ¹⁰
April 10	0.50 ²⁴	56.8 ²⁵	40.00 ⁷	5.0 ⁶	37.79 ⁹	34.3 ¹⁷	58.85 ⁷	32.5 ⁹
20	0.26 ¹¹	54.3 ²⁶	39.93 ¹	4.4 ⁴	37.70 ⁵	32.6 ²⁰	58.78 ³	31.6 ⁹
30	0.15 [—]	51.7 ²⁷	39.92 [—]	4.0 ⁴	37.65 ⁰	30.6 ²³	58.75 [—]	30.7 ⁸
Mai 10	0.18 ³	49.0 ²⁸	39.95 ³	3.6 ²	37.65 ⁶	28.3 ²⁶	58.78 ³	29.9 ⁷
20	0.35 ¹⁸	46.2 ²⁴	40.04 ¹⁴	3.4 [—]	37.71 ¹⁰	25.7 ²⁶	58.86 ¹⁵	29.2 ⁵
30	0.63 ⁴¹	43.8 ²²	40.18 ¹⁸	3.5 ²	37.81 ¹⁴	23.1 ²⁶	59.01 ¹⁸	28.7 ²
Juni 9	1.04 ⁵¹	41.6 ¹⁹	40.36 ²²	3.7 ⁴	37.95 ¹⁸	20.5 ²⁶	59.19 ²³	28.5 ⁰
19	1.55 ⁶⁰	39.7 ¹⁵	40.58 ²⁵	4.1 ⁵	38.13 ²²	17.9 ²⁵	59.42 ²⁷	28.5 ¹
29	2.15 ⁶⁷	38.2 ¹¹	40.83 ²⁸	4.6 ⁸	38.35 ²⁵	15.4 ²⁵	59.69 ²⁹	28.6 ³
Juli 9	2.82 ⁷³	37.1 ⁸	41.11 ³¹	5.4 ⁹	38.60 ²⁸	12.9 ²²	59.98 ³²	28.9 ⁶
19	3.55 ⁷⁷	36.3 ³	41.42 ³¹	6.3 ¹⁰	38.88 ²⁹	10.7 ¹⁹	60.30 ³³	29.5 ⁷
29	4.32 ⁸⁰	36.0 [—]	41.73 ³²	7.3 ¹⁰	39.17 ²⁹	8.8 ¹⁶	60.63 ³⁴	30.2 ⁹
Aug. 8	5.12 ⁸⁰	36.2 ²	42.05 ³²	8.3 ¹¹	39.46 ²⁹	7.2 ¹²	60.97 ³⁴	31.1 ⁹
18	5.92 ⁸⁰	36.7 ⁵	42.37 ³¹	9.4 ¹¹	39.75 ³⁰	6.0 ⁸	61.31 ³⁴	32.0 ¹¹
28	6.72 ⁷⁷	37.6 ¹⁴	42.68 ³⁰	10.5 ¹¹	40.05 ²⁹	5.2 ³	61.65 ³²	33.1 ¹¹
Sept. 7	7.49 ⁷⁴	39.0 ¹⁷	42.98 ²⁸	11.6 ¹⁰	40.34 ²⁸	4.9 [—]	61.97 ³¹	34.2 ¹¹
17	8.23 ⁷⁰	40.7 ²⁰	43.26 ²⁷	12.6 ¹⁰	40.62 ²⁵	5.0 ⁶	62.28 ²⁹	35.3 ¹²
27	8.93 ⁶³	42.7 ²³	43.53 ²⁵	13.6 ⁹	40.87 ²³	5.6 ¹¹	62.57 ²⁷	36.5 ¹¹
Oct. 7	9.56 ⁵⁶	45.0 ²⁵	43.78 ²²	14.5 ⁷	41.10 ²⁰	6.7 ¹⁴	62.84 ²⁴	37.6 ¹¹
17	10.12 ⁴⁹	47.5 ²⁷	44.00 ²⁰	15.2 ⁷	41.30 ¹⁷	8.1 ¹⁸	63.08 ²²	38.7 ¹⁰
27	10.61 ⁴⁰	50.2 ²⁹	44.20 ¹⁷	15.9 ⁶	41.47 ¹³	9.9 ²¹	63.30 ¹⁹	39.7 ¹⁰
Nov. 6	11.01 ²⁹	53.1 ³⁰	44.37 ¹³	16.5 ⁵	41.60 ¹¹	12.0 ²²	63.49 ¹⁵	40.7 ¹⁰
16	11.30 ¹⁸	56.1 ²⁹	44.50 ¹⁰	17.0 ⁴	41.71 ⁷	14.2 ²³	63.64 ¹¹	41.7 ⁸
26	11.48 ⁷	59.0 ²⁹	44.60 ⁷	17.4 ³	41.78 ³	16.5 ²⁴	63.75 ⁸	42.5 ⁸
Dec. 6	11.55 [—]	61.9 ²⁷	44.67 ²	17.7 ²	41.81 [—]	18.9 ²²	63.83 ³	43.3 ⁷
16	11.50 ¹⁷	64.6 ²⁵	44.69 [—]	17.9 ²	41.80 ⁵	21.1 ²¹	63.86 [—]	44.0 ⁶
26	11.33 ²⁸	67.1 ²²	44.68 ⁶	18.1 ⁰	41.75 ⁸	23.2 ¹⁹	63.85 ⁵	44.6 ⁴
36	11.05	69.3	44.62	18.1	41.67	25.1	63.80	45.0
Mittl. Ort	0.07	49.9	39.39	8.4	37.85	22.2	58.17	34.2
	364)		61)		551)		63)	

1902	9 H. Camelop. 6 ^m .o.		ε Persei. 3 ^m .3.		ξ Persei. 4 ^m .o.		γ Eridani. 3 ^m .o.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	3 ^h 48 ^m	60° 49'	3 ^h 51 ^m	39° 43'	3 ^h 52 ^m	35° 30'	3 ^h 53 ^m	13° 46'
Jan. 0	50.30	27.4	18.96	40.8	38.58	36.3	29.01	82.5
10	50.13	29.0	18.87	41.5	38.51	36.8	28.94	84.0
20	49.88	30.3	18.74	42.0	38.39	37.2	28.83	85.3
30	49.58	31.1	18.58	42.3	38.24	37.3	28.69	86.3
Febr. 9	49.23	31.6	18.38	42.3	38.05	37.3	28.53	87.1
19	48.86	31.5	18.16	42.0	37.85	37.0	28.35	87.5
März 1	48.48	31.0	17.93	41.5	37.64	36.5	28.17	87.7
11	48.11	30.0	17.71	40.7	37.43	35.8	27.99	87.6
21	47.77	28.6	17.51	39.7	37.24	34.9	27.82	87.2
31	47.47	26.9	17.33	38.6	37.07	33.9	27.67	86.5
April 10	47.24	25.0	17.19	37.3	36.94	32.8	27.55	85.5
20	47.09	22.8	17.11	36.0	36.86	31.6	27.46	84.2
30	47.01	20.6	17.07	34.7	36.82	30.5	27.42	82.7
Mai 10	47.03	18.3	17.09	33.5	36.85	29.5	27.42	81.0
20	47.14	16.1	17.17	32.4	36.93	28.7	27.47	79.1
30	47.35	13.9	17.33	31.4	37.08	27.9	27.57	76.8
Juni 9	47.63	12.1	17.53	30.6	37.26	27.4	27.71	74.6
19	47.98	10.6	17.78	30.1	37.50	27.1	27.89	72.3
29	48.40	9.4	18.06	29.8	37.77	27.0	28.10	70.1
Juli 9	48.86	8.5	18.38	29.8	38.07	27.2	28.34	67.9
19	49.37	8.0	18.73	30.0	38.40	27.6	28.60	65.9
29	49.91	7.9	19.09	30.5	38.74	28.2	28.88	64.1
Aug. 8	50.46	8.1	19.46	31.1	39.09	28.9	29.16	62.5
18	51.02	8.7	19.83	31.9	39.45	29.7	29.45	61.2
28	51.57	9.5	20.19	32.9	39.79	30.7	29.74	60.3
Sept. 7	52.10	10.7	20.55	34.0	40.13	31.8	30.02	59.8
17	52.62	12.3	20.89	35.3	40.46	33.0	30.29	59.7
27	53.10	14.0	21.21	36.6	40.76	34.2	30.54	59.9
Oct. 7	53.55	16.0	21.51	38.0	41.05	35.4	30.76	60.5
17	53.96	18.2	21.78	39.4	41.31	36.6	30.97	61.6
27	54.31	20.5	22.02	40.8	41.54	37.8	31.15	63.0
Nov. 6	54.61	22.9	22.23	42.2	41.74	39.0	31.30	64.5
16	54.85	25.4	22.41	43.6	41.90	40.2	31.42	66.3
26	55.01	28.0	22.54	45.0	42.03	41.3	31.50	68.2
Dec. 6	55.10	30.4	22.62	46.3	42.11	42.3	31.55	70.1
16	55.12	32.7	22.66	47.5	42.15	43.2	31.57	71.9
26	55.05	34.8	22.64	48.5	42.14	44.0	31.55	73.7
36	54.91	36.6	22.58	49.3	42.09	44.7	31.49	75.3
Mittl. Ort	46.54	20.0	16.46	37.2	36.22	33.6	27.36	74.1
	365)		64)		65)		552)	

1902	λ Tauri. 3.4...4 ^m .2.		ν Tauri. 4 ^m .0.		ε Persei. 4 ^m .0.		ο ¹ Eridani. 4 ^m .4.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	3 ^h 55 ^m	12° 12'	3 ^h 57 ^m	5° 42'	4 ^h 1 ^m	47° 26'	4 ^h 7 ^m	7° 5'
Jan. 0	16.86 ⁶	46.2 ⁵	58.37 ⁶	58.7 ⁸	35.46 ⁹	67.8 ¹²	6.61 ⁵	41.9 ¹³
10	16.80	45.7 ⁵	58.31 ⁹	57.9 ⁷	35.37 ¹⁵	69.0 ⁹	6.56 ¹⁰	43.2 ¹²
20	16.71	45.2 ⁵	58.22 ¹²	57.2 ⁷	35.22 ¹⁹	69.9 ⁶	6.46 ¹²	44.4 ¹⁰
30	16.58	44.7 ⁴	58.10 ¹⁵	56.5 ⁵	35.03 ²³	70.5 ²	6.34 ¹⁵	45.4 ⁷
Febr. 9	16.43	44.3 ⁴	57.95 ¹⁶	56.0 ⁵	34.80 ²⁵	70.7 ¹	6.19 ¹⁷	46.1 ⁵
19	16.27	43.9 ⁴	57.79 ¹⁸	55.5 ⁴	34.55 ²⁷	70.6 ⁴	6.02 ¹⁸	46.6 ³
März 1	16.10	43.5 ⁴	57.61 ¹⁷	55.1 ²	34.28 ²⁶	70.2 ⁸	5.84 ¹⁸	46.9 ¹
11	15.92	43.1 ³	57.44 ¹⁶	54.9 ¹	34.02 ²⁵	69.4 ¹⁰	5.66 ¹⁷	47.0 ²
21	15.76	42.8 ³	57.28 ¹⁴	54.8 ⁰	33.77 ²¹	68.4 ¹³	5.49 ¹⁵	46.8 ⁴
31	15.62	42.5 ¹	57.14 ¹¹	54.8 ¹	33.56 ¹⁷	67.1 ¹⁵	5.34 ¹³	46.4 ⁷
April 10	15.51	42.4 ⁰	57.03 ⁸	54.9 ⁴	33.39 ¹¹	65.6 ¹⁶	5.21 ⁹	45.7 ⁹
20	15.44	42.4 ²	56.95 ³	55.3 ⁵	33.28 ⁶	64.0 ¹⁶	5.12 ⁵	44.8 ¹²
30	15.41	42.6 ³	56.92 ¹	55.8 ⁶	33.22 ¹	62.4 ¹⁶	5.07 ⁰	43.6 ¹⁴
Mai 10	15.42	42.9 ⁵	56.93 ⁵	56.4 ⁹	33.23 ⁷	60.8 ¹⁶	5.07 ⁴	42.2 ¹⁵
20	15.48	43.4 ⁷	56.98 ¹²	57.3 ¹¹	33.30 ¹⁶	59.2 ¹⁵	5.11 ⁹	40.7 ¹⁹
30	15.60	44.1 ⁸	57.10 ¹⁵	58.4 ¹²	33.46 ²⁰	57.7 ¹²	5.20 ¹³	38.8 ¹⁹
Juni 9	15.76	44.9 ¹⁰	57.25 ¹⁸	59.6 ¹³	33.66 ²⁶	56.5 ¹⁰	5.33 ¹⁷	36.9 ¹⁹
19	15.95	45.9 ¹¹	57.43 ²²	60.9 ¹⁴	33.92 ³¹	55.5 ⁷	5.50 ²⁰	35.0 ¹⁹
29	16.18	47.0 ¹²	57.65 ²⁴	62.3 ¹⁴	34.23 ³⁴	54.8 ⁵	5.70 ²³	33.1 ¹⁹
Juli 9	16.43	48.2 ¹²	57.89 ²⁷	63.7 ¹⁵	34.57 ³⁸	54.3 ²	5.93 ²⁶	31.2 ¹⁹
19	16.71	49.4 ¹²	58.16 ²⁸	65.2 ¹⁴	34.95 ⁴⁰	54.1 ¹	6.19 ²⁷	29.3 ¹⁷
29	17.00	50.6 ¹²	58.44 ²⁹	66.6 ¹³	35.35 ⁴¹	54.2 ⁴	6.46 ²⁸	27.6 ¹⁵
Aug. 8	17.29	51.8 ¹²	58.73 ²⁹	67.9 ¹²	35.76 ⁴²	54.6 ⁶	6.74 ²⁹	26.1 ¹³
18	17.59	53.0 ¹⁰	59.02 ²⁹	69.1 ⁹	36.18 ⁴¹	55.2 ⁸	7.03 ²⁸	24.8 ⁹
28	17.89	54.0 ⁸	59.31 ²⁸	70.0 ⁸	36.59 ⁴⁰	56.0 ¹¹	7.31 ²⁸	23.9 ⁷
Sept. 7	18.17	54.8 ⁷	59.59 ²⁷	70.8 ⁶	36.99 ³⁹	57.1 ¹²	7.59 ²⁷	23.2 ³
17	18.44	55.5 ⁵	59.86 ²⁵	71.4 ³	37.38 ³⁷	58.3 ¹⁴	7.86 ²⁵	22.9 ¹
27	18.70	56.0 ⁴	60.11 ²³	71.7 ¹	37.75 ³⁵	59.7 ¹⁵	8.11 ²⁴	23.0 ⁴
Oct. 7	18.94	56.4 ²	60.34 ²²	71.8 ²	38.10 ³²	61.2 ¹⁶	8.35 ²¹	23.4 ⁷
17	19.16	56.6 ⁰	60.56 ¹⁹	71.6 ³	38.42 ²⁸	62.8 ¹⁷	8.56 ¹⁹	24.1 ¹⁰
27	19.35	56.6 ²	60.75 ¹⁶	71.3 ⁵	38.70 ²⁵	64.5 ¹⁷	8.75 ¹⁷	25.1 ¹³
Nov. 6	19.52	56.4 ²	60.91 ¹⁴	70.8 ⁷	38.95 ²⁰	66.2 ¹⁸	8.92 ¹³	26.4 ¹⁴
16	19.66	56.2 ⁴	61.05 ¹⁰	70.1 ⁸	39.15 ¹⁵	68.0 ¹⁸	9.05 ¹¹	27.8 ¹⁵
26	19.77	55.8 ⁴	61.15 ⁷	69.3 ⁸	39.30 ¹¹	69.8 ¹⁷	9.16 ⁷	29.3 ¹⁶
Dec 6	19.84	55.4 ⁵	61.22 ⁴	68.5 ⁸	39.41 ⁵	71.5 ¹⁶	9.23 ³	30.9 ¹⁶
16	19.87	54.9 ⁵	61.26 ⁰	67.7 ⁹	39.46 ¹	73.1 ¹⁵	9.26 ⁰	32.5 ¹⁵
26	19.87	54.4 ⁵	61.26 ⁵	66.8 ⁷	39.45 ⁷	74.6 ¹³	9.26 ⁴	34.0 ¹⁴
36	19.83	53.9	61.21	66.1	39.38	75.9	9.22	35.4
Mittl. Ort	14.96	48.8	56.54	62.9	32.60	63.7	4.87	34.6
	(66)		(67)		(69)		(366)	

1902	δ Tauri. 4 ^m .0.		ε Tauri. 3 ^m .6.		α Tauri. 1 ^m .		ν Eridani. 3 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	4 ^h 17 ^m	17° 18'	4 ^h 22 ^m	18° 57'	4 ^h 30 ^m	16° 18'	4 ^h 31 ^m	3° 33'
Jan. 0	18.94	43.7	55.65	45.1	19.80	41.3	27.08	16.5
10	18.90	43.4	55.62	44.9	19.77	40.9	27.05	17.8
20	18.82	43.1	55.54	44.7	19.70	40.6	26.97	18.9
30	18.71	42.8	55.43	44.4	19.60	40.3	26.85	19.9
Febr. 9	18.56	42.5	55.28	44.2	19.46	40.0	26.71	20.6
19	18.39	42.1	55.12	43.9	19.29	39.7	26.55	21.2
März 1	18.21	41.7	54.94	43.5	19.11	39.3	26.37	21.6
11	18.03	41.4	54.75	43.1	18.93	39.0	26.19	21.7
21	17.86	41.0	54.57	42.8	18.75	38.7	26.01	21.7
31	17.70	40.7	54.41	42.4	18.59	38.4	25.85	21.4
April 10	17.57	40.4	54.28	42.0	18.45	38.2	25.72	20.9
20	17.48	40.1	54.18	41.7	18.35	38.0	25.62	20.2
30	17.43	40.0	54.13	41.5	18.29	37.9	25.55	19.3
Mai 10	17.43	40.0	54.12	41.4	18.28	38.0	25.52	18.3
20	17.48	40.2	54.16	41.5	18.31	38.2	25.54	17.0
30	17.58	40.5	54.26	41.7	18.39	38.5	25.60	15.6
Juni 9	17.72	40.9	54.40	42.0	18.52	39.0	25.72	13.8
19	17.90	41.5	54.57	42.5	18.69	39.6	25.87	12.1
29	18.12	42.3	54.79	43.1	18.90	40.3	26.05	10.3
Juli 9	18.36	43.1	55.03	43.9	19.13	41.1	26.27	8.6
19	18.63	44.0	55.30	44.7	19.39	42.0	26.51	6.9
29	18.92	45.0	55.59	45.6	19.67	42.9	26.77	5.3
Aug. 8	19.22	46.0	55.89	46.4	19.96	43.8	27.04	3.9
18	19.52	46.9	56.19	47.3	20.26	44.7	27.32	2.7
28	19.82	47.8	56.50	48.2	20.56	45.5	27.61	1.7
Sept. 7	20.12	48.6	56.80	48.9	20.86	46.3	27.89	1.1
17	20.40	49.3	57.09	49.6	21.15	46.9	28.16	0.7
27	20.68	49.8	57.37	50.2	21.43	47.3	28.43	0.7
Oct. 7	20.94	50.3	57.64	50.7	21.69	47.6	28.68	1.0
17	21.18	50.6	57.89	51.0	21.94	47.8	28.91	1.6
27	21.40	50.7	58.11	51.2	22.17	47.9	29.12	2.5
Nov. 6	21.59	50.8	58.31	51.3	22.37	47.8	29.31	3.6
16	21.76	50.7	58.48	51.4	22.55	47.7	29.47	4.8
26	21.89	50.6	58.62	51.4	22.70	47.5	29.60	6.2
Dec. 6	21.99	50.5	58.73	51.3	22.81	47.2	29.70	7.7
16	22.05	50.3	58.79	51.2	22.88	46.9	29.76	9.1
26	22.07	50.1	58.82	51.0	22.91	46.6	29.78	10.5
36	22.05	49.8	58.81	50.9	22.90	46.3	29.76	11.8
Mittl. Ort	16.89	46.3	53.56	47.7	17.73	44.8	25.22	9.3
	71)		72)		73)		74)	

1902	53 Eridani. 4 ^m .o.		Gr. 848. 6 ^m .I.		τ Tauri. 4 ^m .3.		4 Camelop. 5 ^m .8.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	4 ^h 33 ^m	14° 29'	4 ^h 35 ^m	75° 45'	4 ^h 36 ^m	22° 46'	4 ^h 39 ^m	56° 34'
Jan. 0	43.22	53.6	45.63	52.2	23.88	6.4	53.72	61.9
10	43.17	55.2	45.35	54.7	23.85	6.4	53.65	63.6
20	43.08	56.8	44.91	56.8	23.78	6.4	53.50	65.1
30	42.96	58.1	44.33	58.6	23.67	6.3	53.29	66.3
Febr. 9	42.81	59.1	43.65	59.9	23.53	6.2	53.02	67.2
19	42.64	59.7	42.88	60.6	23.36	6.0	52.71	67.6
März 1	42.45	60.1	42.07	60.8	23.17	5.7	52.38	67.6
11	42.25	60.2	41.25	60.5	22.98	5.3	52.04	67.3
21	42.06	59.9	40.47	59.5	22.80	4.9	51.71	66.5
31	41.89	59.4	39.75	58.1	22.63	4.5	51.41	65.4
April 10	41.74	58.6	39.12	56.3	22.48	4.1	51.14	63.9
20	41.62	57.5	38.62	54.1	22.37	3.6	50.94	62.2
30	41.54	56.1	38.27	51.6	22.31	3.3	50.81	60.4
Mai 10	41.51	54.4	38.07	48.9	22.29	3.0	50.75	58.4
20	41.51	52.6	38.04	46.2	22.31	2.8	50.76	56.4
30	41.57	50.6	38.18	43.4	22.39	2.7	50.85	54.5
Juni 9	41.68	48.3	38.52	40.5	22.52	2.8	51.04	52.5
19	41.82	46.1	38.99	38.1	22.69	3.0	51.29	50.8
29	41.99	43.8	39.59	35.9	22.90	3.3	51.60	49.4
Juli 9	42.20	41.7	40.32	34.0	23.14	3.8	51.96	48.2
19	42.44	39.6	41.16	32.4	23.41	4.4	52.37	47.2
29	42.70	37.7	42.08	31.2	23.70	5.1	52.82	46.6
Aug. 8	42.97	36.1	43.06	30.4	24.00	5.8	53.30	46.2
18	43.25	34.8	44.09	30.0	24.31	6.5	53.79	46.2
28	43.54	33.8	45.15	30.1	24.62	7.2	54.29	46.4
Sept. 7	43.82	33.1	46.21	30.5	24.93	7.9	54.78	46.9
17	44.10	32.9	47.25	31.4	25.23	8.5	55.27	47.7
27	44.37	33.1	48.26	32.6	25.53	9.1	55.75	48.8
Oct. 7	44.62	33.7	49.23	34.3	25.81	9.6	56.21	50.0
17	44.86	34.8	50.13	36.2	26.07	10.0	56.64	51.5
27	45.07	36.1	50.94	38.5	26.31	10.3	57.03	53.2
Nov. 6	45.25	37.7	51.65	41.1	26.53	10.5	57.39	55.1
16	45.41	39.6	52.24	43.8	26.72	10.7	57.69	57.0
26	45.54	41.6	52.68	46.7	26.88	10.9	57.93	59.1
Dec. 6	45.63	43.6	52.98	49.7	27.00	11.0	58.12	61.2
16	45.68	45.7	53.11	52.7	27.08	11.1	58.23	63.3
26	45.69	47.7	53.07	55.5	27.12	11.2	58.27	65.3
36	45.66	49.5	52.87	58.2	27.12	11.3	58.23	67.2
Mittl. Ort	41.41	44.4	38.25	48.0	21.68	9.1	50.13	59.9
	553)		369)		370)		371)	

1902	9 Camelop. 4 ^m .3.		π ⁵ Orionis. 4 ^m .0.		ι Aurigae. 3 ^m .0.		ι0 Camelop. 4 ^m .0.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	4 ^h 44 ^m	66° 10'	4 ^h 49 ^m	2° 16'	4 ^h 50 ^m	33° 0'	4 ^h 54 ^m	60° 17'
Jan. 0	22.87 ¹³	38.0 ²²	10.72 ²	42.2 ¹⁰	39.11 ²	38.4 ⁶	45.89 ⁶	58.3 ¹⁹
10	22.74 ²²	40.2 ¹⁹	10.70 ⁶	41.2 ¹⁰	39.09 ⁷	39.0 ⁵	45.83 ¹⁵	60.2 ¹⁸
20	22.52 ³⁰	42.1 ¹⁵	10.64 ¹⁰	40.2 ⁸	39.02 ¹¹	39.5 ⁴	45.68 ²²	62.0 ¹⁵
30	22.22 ³⁸	43.6 ¹²	10.54 ¹³	39.4 ⁶	38.91 ¹⁵	39.9 ²	45.46 ²⁹	63.5 ¹¹
Febr. 9	21.84 ⁴³	44.8 ⁷	10.41 ¹⁶	38.8 ⁵	38.76 ¹⁹	40.1 ¹	45.17 ³⁴	64.6 ⁶
19	21.41 ⁴⁸	45.5 ²	10.25 ¹⁷	38.3 ⁴	38.57 ²⁰	40.2 ¹	44.83 ³⁷	65.2 ³
März 1	20.93 ⁴⁸	45.7 ³	10.08 ¹⁸	37.9 ³	38.37 ²¹	40.1 ³	44.46 ³⁸	65.5 ²
11	20.45 ⁴⁷	45.4 ⁸	9.90 ¹⁸	37.6 ⁰	38.16 ²¹	39.8 ⁵	44.08 ³⁸	65.3 ⁶
21	19.98 ⁴³	44.6 ¹²	9.72 ¹⁶	37.6 ⁰	37.95 ²⁰	39.3 ⁶	43.70 ³⁵	64.7 ¹⁰
31	19.55 ³⁷	43.4 ¹⁶	9.56 ¹⁵	37.6 ³	37.75 ¹⁷	38.7 ⁷	43.35 ³¹	63.7 ¹⁴
April 10	19.18 ³⁰	41.8 ¹⁹	9.41 ¹¹	37.9 ⁴	37.58 ¹³	38.0 ⁸	43.04 ²⁵	62.3 ¹⁷
20	18.88 ²²	39.9 ²²	9.30 ⁸	38.3 ⁶	37.45 ⁹	37.2 ⁸	42.79 ¹⁸	60.6 ¹⁹
30	18.66 ¹¹	37.7 ²³	9.22 ⁴	38.9 ⁸	37.36 ⁴	36.4 ⁸	42.61 ¹¹	58.7 ²⁰
Mai 10	18.55 ¹	35.4 ²⁴	9.18 ¹	39.7 ⁹	37.32 ²	35.6 ⁸	42.50 ¹	56.7 ²²
20	18.54 ⁹	33.0 ²⁴	9.19 ⁵	40.6 ¹¹	37.34 ⁶	34.8 ⁷	42.49 ⁷	54.5 ²¹
30	18.63 ²²	30.6 ²⁵	9.24 ¹¹	41.7 ¹³	37.40 ¹⁴	34.1 ⁶	42.56 ¹⁸	52.4 ²²
Juni 9	18.85 ³⁰	28.1 ²¹	9.35 ¹⁴	43.0 ¹⁴	37.54 ¹⁷	33.5 ⁵	42.74 ²⁴	50.2 ²⁰
19	19.15 ³⁹	26.0 ¹⁹	9.49 ¹⁷	44.4 ¹⁴	37.71 ²¹	33.0 ³	42.98 ³¹	48.2 ¹⁷
29	19.54 ⁴⁶	24.1 ¹⁷	9.66 ²¹	45.8 ¹⁴	37.92 ²⁵	32.7 ¹	43.29 ³⁷	46.5 ¹⁵
Juli 9	20.00 ⁵³	22.4 ¹³	9.87 ²³	47.2 ¹⁴	38.17 ²⁸	32.6 ⁰	43.66 ⁴³	45.0 ¹²
19	20.53 ⁵⁷	21.1 ¹⁰	10.10 ²⁵	48.6 ¹⁴	38.45 ³¹	32.6 ²	44.09 ⁴⁸	43.8 ⁹
29	21.10 ⁶²	20.1 ⁷	10.35 ²⁷	50.0 ¹²	38.76 ³²	32.8 ²	44.57 ⁵¹	42.9 ⁷
Aug. 8	21.72 ⁶⁵	19.4 ³	10.62 ²⁸	51.2 ¹¹	39.08 ³³	33.0 ⁴	45.08 ⁵³	42.2 ³
18	22.37 ⁶⁶	19.1 ⁰	10.90 ²⁸	52.3 ⁹	39.41 ³⁴	33.4 ⁵	45.61 ⁵⁴	41.9 ⁰
28	23.03 ⁶⁶	19.1 ⁴	11.18 ²⁸	53.2 ⁶	39.75 ³⁴	33.9 ⁵	46.15 ⁵⁵	41.9 ²
Sept. 7	23.69 ⁶⁶	19.5 ⁸	11.46 ²⁸	53.8 ⁴	40.09 ³⁴	34.4 ⁶	46.70 ⁵⁵	42.1 ⁶
17	24.35 ⁶⁴	20.3 ¹⁰	11.74 ²⁷	54.2 ²	40.43 ³³	35.0 ⁶	47.25 ⁵⁴	42.7 ⁹
27	24.99 ⁶²	21.3 ¹⁴	12.01 ²⁶	54.4 ²	40.76 ³¹	35.6 ⁷	47.79 ⁵¹	43.6 ¹²
Oct. 7	25.61 ⁵⁸	22.7 ¹⁷	12.27 ²⁵	54.2 ⁴	41.07 ³⁰	36.3 ⁶	48.30 ⁴⁹	44.8 ¹⁴
17	26.19 ⁵³	24.4 ²⁰	12.52 ²³	53.8 ⁶	41.37 ²⁸	36.9 ⁷	48.79 ⁴⁵	46.2 ¹⁷
27	26.72 ⁴⁷	26.4 ²²	12.75 ²¹	53.2 ⁹	41.65 ²⁵	37.6 ⁷	49.24 ⁴¹	47.9 ¹⁸
Nov. 6	27.19 ⁴⁰	28.6 ²³	12.96 ¹⁸	52.3 ¹⁰	41.90 ²²	38.3 ⁷	49.65 ³⁶	49.7 ²⁰
16	27.59 ³²	30.9 ²⁵	13.14 ¹⁵	51.3 ¹¹	42.12 ¹⁹	39.0 ⁷	50.01 ³⁰	51.7 ²²
26	27.91 ²³	33.4 ²⁵	13.29 ¹²	50.2 ¹²	42.31 ¹⁵	39.7 ⁸	50.31 ²²	53.9 ²²
Dec. 6	28.14 ¹⁴	35.9 ²⁶	13.41 ⁸	49.0 ¹²	42.46 ¹¹	40.5 ⁷	50.53 ¹⁵	56.1 ²³
16	28.28 ³	38.5 ²⁵	13.49 ⁴	47.8 ¹¹	42.57 ⁶	41.2 ⁷	50.68 ⁶	58.4 ²²
26	28.31 ⁷	41.0 ²³	13.53 ⁰	46.7 ¹¹	42.63 ⁰	41.9 ⁶	50.74 ³	60.6 ²¹
36	28.24	43.3	13.53	45.6	42.63	42.5	50.71	62.7
Mittl. Ort	18.13	35.4	8.77	49.0	36.64	40.4	41.92	57.3
	76)		78)		79)		80)	

1902	ε Aurig. 3.0...4 ^m .5.		ι Tauri. 5 ^m .0.		η Aurigae. 3 ^m .6.		ε Leporis. 3 ^m .5.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	4 ^h 54 ^m	43° 40'	4 ^h 57 ^m	21° 26'	4 ^h 59 ^m	41° 5'	5 ^h 1 ^m	22° 29'
Jan. 0	58.89	41.6	16.43	56.4	41.21	66.4	20.60	80.4
10	58.87	42.8	16.42	56.4	41.20	67.5	20.56	82.6
20	58.79	43.8	16.36	56.3	41.13	68.4	20.47	84.5
30	58.65	44.6	16.27	56.2	41.00	69.2	20.35	86.2
Febr. 9	58.47	45.2	16.14	56.1	40.83	69.7	20.20	87.5
19	58.26	45.5	15.98	56.0	40.63	70.0	20.02	88.4
März 1	58.02	45.6	15.80	55.8	40.40	70.1	19.81	88.9
11	57.76	45.3	15.60	55.5	40.16	69.9	19.60	89.1
21	57.51	44.8	15.41	55.2	39.92	69.4	19.39	88.9
31	57.28	44.1	15.24	54.9	39.70	68.7	19.19	88.4
April 10	57.08	43.1	15.08	54.6	39.50	67.8	19.02	87.5
20	56.92	41.9	14.96	54.3	39.35	66.8	18.87	86.2
30	56.81	40.7	14.88	54.0	39.24	65.6	18.75	84.7
Mai 10	56.76	39.4	14.84	53.8	39.18	64.4	18.68	82.9
20	56.76	38.0	14.84	53.6	39.18	63.2	18.65	80.8
30	56.83	36.7	14.90	53.6	39.24	62.0	18.67	78.5
Juni 9	56.97	35.4	15.01	53.7	39.38	60.9	18.74	75.8
19	57.15	34.3	15.16	53.9	39.55	60.0	18.85	73.3
29	57.39	33.4	15.35	54.2	39.77	59.2	19.00	70.8
Juli 9	57.66	32.7	15.57	54.6	40.04	58.6	19.19	68.4
19	57.98	32.2	15.82	55.1	40.34	58.1	19.41	66.0
29	58.32	31.9	16.09	55.7	40.66	57.9	19.65	63.9
Aug. 8	58.68	31.8	16.38	56.3	41.01	57.8	19.92	62.0
18	59.06	31.9	16.68	56.9	41.37	57.9	20.20	60.5
28	59.45	32.1	16.99	57.5	41.74	58.1	20.48	59.4
Sept. 7	59.84	32.5	17.29	58.1	42.12	58.5	20.77	58.7
17	60.22	33.1	17.60	58.6	42.49	59.0	21.06	58.5
27	60.60	33.8	17.90	58.9	42.86	59.6	21.34	58.7
Oct. 7	60.97	34.6	18.19	59.2	43.21	60.4	21.61	59.4
17	61.32	35.6	18.46	59.5	43.55	61.2	21.87	60.6
27	61.64	36.6	18.71	59.6	43.86	62.1	22.11	62.2
Nov. 6	61.93	37.8	18.95	59.7	44.15	63.1	22.32	64.2
16	62.19	39.1	19.16	59.7	44.41	64.2	22.51	66.4
26	62.41	40.4	19.34	59.7	44.63	65.3	22.66	68.8
Dec. 6	62.59	41.7	19.48	59.7	44.80	66.5	22.77	71.3
16	62.71	43.1	19.59	59.7	44.93	67.7	22.84	73.8
26	62.77	44.4	19.65	59.7	45.00	68.9	22.87	76.3
36	62.78	45.7	19.66	59.6	45.01	70.0	22.85	78.5
Mittl. Ort	56.05	42.6	14.20	60.6	38.46	68.1	18.71	69.9
	81)		372)		83)		554)	

1902	β Eridani. 3 ^m .o.		19 H. Camelop. 5 ^m .o.		μ Aurigae. 5 ^m .6.		α Aurigae. 1 ^m .	
	AR.	Decl.	AR.	Decl.	AR.	Decl.	AR.	Decl.
	5 ^h 3 ^m	5° 12'	5 ^h 6 ^m	79° 6'	5 ^h 6 ^m	38° 21'	5 ^h 9 ^m	45° 53'
Jan. 0	3.82	54.5	33.15	69.7	45.84	64.4	29.86	52.7
10	3.81	56.0	32.91	72.5	45.84	65.3	29.85	54.0
20	3.75	57.3	32.44	75.0	45.78	66.1	29.79	55.2
30	3.65	58.4	31.77	77.1	45.67	66.8	29.66	56.2
Febr. 9	3.52	59.3	30.93	78.9	45.51	67.3	29.48	57.0
19	3.37	59.9	29.97	80.1	45.32	67.6	29.26	57.5
März 1	3.19	60.4	28.93	80.7	45.10	67.7	29.01	57.7
11	3.01	60.6	27.84	80.8	44.87	67.6	28.75	57.6
21	2.82	60.6	26.77	80.3	44.64	67.2	28.49	57.2
31	2.64	60.4	25.75	79.2	44.43	66.6	28.24	56.5
April 10	2.49	60.0	24.83	77.7	44.24	65.8	28.02	55.6
20	2.36	59.3	24.06	75.7	44.08	64.9	27.84	54.4
30	2.27	58.4	23.45	73.4	43.97	63.9	27.71	53.1
Mai 10	2.22	57.3	23.03	70.8	43.91	62.8	27.63	51.7
20	2.21	56.0	22.81	68.0	43.90	61.8	27.62	50.3
30	2.24	54.6	22.83	65.2	43.95	60.8	27.67	48.8
Juni 9	2.32	52.8	23.06	62.4	44.06	59.9	27.77	47.5
19	2.44	51.1	23.54	59.3	44.23	59.0	27.96	46.1
29	2.60	49.4	24.17	56.8	44.44	58.3	28.19	45.0
Juli 9	2.79	47.7	24.97	54.5	44.69	57.8	28.46	44.1
19	3.01	46.0	25.93	52.5	44.97	57.4	28.77	43.3
29	3.25	44.4	27.02	50.8	45.29	57.2	29.11	42.7
Aug. 8	3.51	43.0	28.22	49.5	45.62	57.1	29.48	42.4
18	3.78	41.7	29.49	48.6	45.97	57.2	29.86	42.2
28	4.06	40.8	30.83	48.1	46.32	57.4	30.26	42.2
Sept. 7	4.34	40.1	32.20	48.0	46.68	57.8	30.67	42.5
17	4.61	39.8	33.57	48.4	47.04	58.2	31.07	42.9
27	4.88	39.8	34.92	49.2	47.40	58.7	31.46	43.4
Oct. 7	5.15	40.2	36.24	50.4	47.74	59.3	31.85	44.1
17	5.40	40.9	37.49	52.1	48.07	60.0	32.22	45.0
27	5.63	41.8	38.64	54.0	48.38	60.8	32.57	46.0
Nov. 6	5.85	43.0	39.67	56.3	48.67	61.6	32.89	47.1
16	6.04	44.5	40.55	59.0	48.92	62.5	33.18	48.3
26	6.20	46.1	41.25	61.8	49.14	63.4	33.43	49.7
Dec. 6	6.32	47.7	41.77	64.7	49.32	64.4	33.62	51.1
16	6.41	49.3	42.08	67.8	49.45	65.4	33.77	52.5
26	6.46	50.9	42.16	70.8	49.53	66.4	33.85	53.9
36	6.46	52.4	41.99	73.7	49.55	67.4	33.88	55.3
Mittl. Ort	1.88	46.3	23.58	68.6	43.18	67.0	26.89	54.7

84)

373)

374)

86)

1902	β Orionis. 1 ^m .		γ Orionis. 2 ^m .o.		β Tauri. 2 ^m .o.		17 Camelop. 6 ^m .o.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	5 ^h 9 ^m	8° 18'	5 ^h 19 ^m	6° 15'	5 ^h 20 ^m	28° 31'	5 ^h 20 ^m	62° 58'
Jan. 0	51.56 ¹	61.9 ¹⁶	54.46 ²	32.4 ⁹	8.16 ¹	24.7 ⁴	59.04 ²	66.7 ²²
10	51.55 ⁵	63.5 ¹⁵	54.48 [—]	31.5 ⁸	8.17 [—]	25.1 ⁴	59.02 ¹²	68.9 ²¹
20	51.50 ¹⁰	65.0 ¹²	54.44 ⁴	30.7 ⁷	8.14 ³	25.4 ³	58.90 ²¹	71.0 ¹⁷
30	51.40 ¹⁰	66.2 ¹⁰	54.36 ¹²	30.0 ⁶	8.05 ¹³	25.7 ²	58.69 ²⁹	72.7 ¹⁴
Febr. 9	51.27 ¹³	67.2 ⁸	54.24 ¹⁴	29.4 ⁴	7.92 ¹⁶	25.9 ¹	58.40 ³⁵	74.1 ¹¹
19	51.12 ¹⁸	68.0 ⁵	54.10 ¹⁷	29.0 ⁴	7.76 ¹⁹	26.0 ¹	58.05 ⁴⁰	75.2 ⁶
März 1	50.94 ¹⁹	68.5 ²	53.93 ¹⁸	28.6 ²	7.57 ²⁰	26.1 ¹	57.65 ⁴²	75.8 ¹
11	50.75 ¹⁹	68.7 ⁰	53.75 ¹⁸	28.4 ¹	7.37 ²⁰	26.0 ³	57.23 ⁴²	75.9 ³
21	50.56 ¹⁸	68.7 ²	53.57 ¹⁸	28.3 ⁰	7.17 ²⁰	25.7 ³	56.81 ⁴¹	75.6 ⁸
31	50.38 ¹⁶	68.5 ⁶	53.39 ¹⁶	28.3 ¹	6.97 ¹⁸	25.4 ⁵	56.40 ³⁷	74.8 ¹¹
April 10	50.22 ¹³	67.9 ⁷	53.23 ¹³	28.4 ³	6.79 ¹⁴	24.9 ⁵	56.03 ³¹	73.7 ¹⁵
20	50.09 ¹⁰	67.2 ¹⁰	53.10 ¹⁰	28.7 ⁴	6.65 ¹¹	24.4 ⁵	55.72 ²⁴	72.2 ¹⁸
30	49.99 ⁶	66.2 ¹²	53.00 ⁶	29.1 ⁵	6.54 ⁶	23.9 ⁶	55.48 ¹⁶	70.4 ²⁰
Mai 10	49.93 ²	65.0 ¹⁴	52.94 ²	29.6 ⁶	6.48 ²	23.3 ⁵	55.32 ⁸	68.4 ²²
20	49.91 [—]	63.6 ¹⁶	52.92 [—]	30.2 ⁸	6.46 [—]	22.8 ⁵	55.24 [—]	66.2 ²²
30	49.93 ⁷	62.0 ¹⁷	52.95 ⁷	31.0 ⁹	6.50 ⁸	22.3 ⁴	55.26 ¹⁰	64.0 ²²
Juni 9	50.00 ¹²	60.3 ²⁰	53.02 ¹²	31.9 ¹¹	6.58 ¹⁵	21.9 ³	55.36 ²³	61.8 ²⁴
19	50.12 ¹⁵	58.3 ¹⁹	53.14 ¹⁵	33.0 ¹¹	6.73 ¹⁷	21.6 ²	55.59 ²⁹	59.4 ²⁰
29	50.27 ¹⁸	56.4 ¹⁹	53.29 ¹⁹	34.1 ¹¹	6.90 ²²	21.4 ⁰	55.88 ³⁵	57.4 ¹⁸
Juli 9	50.45 ²²	54.5 ¹⁸	53.48 ²¹	35.2 ¹²	7.12 ²⁵	21.4 ⁰	56.23 ⁴²	55.6 ¹⁶
19	50.67 ²³	52.7 ¹⁷	53.69 ²⁴	36.4 ¹¹	7.37 ²⁷	21.4 ¹	56.65 ⁴⁸	54.0 ¹⁴
29	50.90 ²⁶	51.0 ¹⁵	53.93 ²⁵	37.5 ¹⁰	7.64 ²⁹	21.5 ²	57.13 ⁵³	52.6 ¹⁰
Aug. 8	51.16 ²⁶	49.5 ¹³	54.18 ²⁷	38.5 ⁹	7.93 ³¹	21.7 ²	57.66 ⁵⁵	51.6 ⁸
18	51.42 ²⁸	48.2 ¹⁰	54.45 ²⁸	39.4 ⁸	8.24 ³²	21.9 ³	58.21 ⁵⁸	50.8 ⁴
28	51.70 ²⁸	47.2 ⁷	54.73 ²⁸	40.2 ⁶	8.56 ³²	22.2 ³	58.79 ⁵⁹	50.4 ¹
Sept. 7	51.98 ²⁸	46.5 ³	55.01 ²⁹	40.8 ³	8.88 ³²	22.5 ³	59.38 ⁶⁰	50.3 [—]
17	52.26 ²⁷	46.2 ¹	55.30 ²⁸	41.1 ¹	9.20 ³²	22.8 ³	59.98 ⁶⁰	50.5 ⁵
27	52.53 ²⁷	46.3 ⁴	55.58 ²⁸	41.2 [—]	9.52 ³²	23.1 ³	60.58 ⁵⁸	51.0 ⁸
Oct. 7	52.80 ²⁵	46.7 ⁸	55.86 ²⁶	41.0 ²	9.84 ³⁰	23.4 ³	61.16 ⁵⁶	51.8 ¹¹
17	53.05 ²⁴	47.5 ¹¹	56.12 ²⁵	40.7 ⁶	10.14 ²⁹	23.7 ²	61.72 ⁵³	52.9 ¹⁴
27	53.29 ²²	48.6 ¹³	56.37 ²³	40.1 ⁷	10.43 ²⁷	23.9 ³	62.25 ⁴⁸	54.3 ¹⁷
Nov. 6	53.51 ¹⁹	49.9 ¹⁶	56.60 ²¹	39.4 ⁹	10.70 ²⁴	24.2 ³	62.73 ⁴⁴	56.0 ¹⁹
16	53.70 ¹⁷	51.5 ¹⁸	56.81 ¹⁹	38.5 ¹⁰	10.94 ²¹	24.5 ³	63.17 ³⁶	57.9 ²¹
26	53.87 ¹³	53.3 ¹⁸	57.00 ¹⁵	37.5 ¹⁰	11.15 ¹⁸	24.8 ³	63.53 ²⁹	60.0 ²²
Dec. 6	54.00 ⁹	55.1 ¹⁸	57.15 ¹¹	36.5 ¹¹	11.33 ¹³	25.1 ⁴	63.82 ²¹	62.2 ²⁴
16	54.09 ⁵	56.9 ¹⁸	57.26 ⁸	35.4 ¹⁰	11.46 ⁹	25.5 ⁴	64.03 ¹²	64.6 ²³
26	54.14 ¹	58.7 ¹⁷	57.34 ³	34.4 ⁹	11.55 ⁴	25.9 ³	64.15 ²	66.9 ²³
36	54.15	60.4	57.37	33.5	11.59	26.2	64.17	69.2
Mittl. Ort	49.63	53.1	52.41	39.7	5.76	29.4	54.72	68.2
	87)		91)		90)		375)	

1902	Gr. 966. 6 ^m .5.		δ Orion. 2.2...2 ^m .7.		α Leporis. 3 ^m .0.		ι Orionis. 3 ^m .1.	
	AR.	Decl. +	AR.	Decl. —	AR.	Decl. —	AR.	Decl. —
	5 ^h 26 ^m	74° 58'	5 ^h 26 ^m	0° 22'	5 ^h 28 ^m	17° 53'	5 ^h 30 ^m	5° 58'
Jan. 0	44.27 ⁸	43.2 ²⁷	61.95 ¹	26.0 ¹³	26.39 ¹	42.4 ²²	40.31 ¹	35.5 ¹⁶
10	44.19 ²⁶	45.9 ²⁵	61.96 [—]	27.3 ¹¹	26.38 ⁵	44.6 ¹⁹	40.32 [—]	37.1 ¹⁴
20	43.93 ⁴¹	48.4 ²²	61.92 ⁴	28.4 ¹⁰	26.33 ¹⁰	46.5 ¹⁶	40.29 ⁸	38.5 ¹²
30	43.52 ⁵⁵	50.6 ¹⁸	61.84 ¹¹	29.4 ⁹	26.23 ¹³	48.1 ¹⁴	40.21 ¹²	39.7 ¹⁰
Febr. 9	42.97 ⁶⁵	52.4 ¹⁴	61.73 ¹⁴	30.3 ⁶	26.10 ¹⁶	49.5 ¹⁰	40.09 ¹⁴	40.7 ⁸
19	42.32 ⁷³	53.8 ⁸	61.59 ¹⁷	30.9 ⁴	25.94 ¹⁹	50.5 ⁷	39.95 ¹⁷	41.5 ⁶
März 1	41.59 ⁷⁷	54.6 ⁴	61.42 ¹⁸	31.3 ³	25.75 ²⁰	51.2 ⁴	39.78 ¹⁹	42.1 ³
11	40.82 ⁷⁷	55.0 ³	61.24 ¹⁹	31.6 ¹	25.55 ²⁰	51.6 ⁰	39.59 ¹⁹	42.4 ⁰
21	40.05 ⁷⁵	54.7 ⁸	61.05 ¹⁸	31.7 ¹	25.35 ²⁰	51.6 ³	39.40 ¹⁸	42.4 ¹
31	39.30 ⁶⁹	53.9 ¹²	60.87 ¹⁶	31.6 ³	25.15 ¹⁸	51.3 ⁷	39.22 ¹⁷	42.3 ⁴
April 10	38.61 ⁵⁹	52.7 ¹⁶	60.71 ¹⁴	31.3 ⁴	24.97 ¹⁶	50.6 ⁹	39.05 ¹⁴	41.9 ⁶
20	38.02 ⁴⁸	51.1 ²²	60.57 ¹⁰	30.9 ⁷	24.81 ¹²	49.7 ¹³	38.91 ¹¹	41.3 ⁹
30	37.54 ³⁵	48.9 ²⁴	60.47 ⁷	30.2 ⁸	24.69 ⁹	48.4 ¹⁵	38.80 ⁸	40.4 ¹⁰
Mai 10	37.19 ²⁰	46.5 ²⁵	60.40 ³	29.4 ¹⁰	24.60 ⁵	46.9 ¹⁷	38.72 ³	39.4 ¹²
20	36.99 ⁴	44.0 ²⁷	60.37 [—]	28.4 ¹¹	24.55 ⁰	45.2 ²⁰	38.69 [—]	38.2 ¹⁴
30	36.95 ¹¹	41.3 ²⁷	60.39 ⁶	27.3 ¹²	24.55 ⁴	43.2 ²¹	38.70 ⁵	36.8 ¹⁶
Juni 9	37.06 ³⁰	38.6 ²⁹	60.45 ¹¹	26.1 ¹⁵	24.59 ¹⁰	41.1 ²⁴	38.75 ¹⁰	35.2 ¹⁸
19	37.36 ⁴²	35.7 ²⁶	60.56 ¹⁴	24.6 ¹⁵	24.69 ¹³	38.7 ²³	38.85 ¹³	33.4 ¹⁷
29	37.78 ⁵⁵	33.1 ²³	60.70 ¹⁷	23.1 ¹⁴	24.82 ¹⁶	36.4 ²³	38.98 ¹⁷	31.7 ¹⁷
Juli 9	38.33 ⁶⁷	30.8 ²¹	60.87 ²⁰	21.7 ¹⁴	24.98 ¹⁹	34.1 ²²	39.15 ²⁰	30.0 ¹⁷
19	39.00 ⁷⁷	28.7 ¹⁸	61.07 ²³	20.3 ¹⁴	25.17 ²²	31.9 ²⁰	39.35 ²²	28.3 ¹⁶
29	39.77 ⁸⁵	26.9 ¹⁴	61.30 ²⁵	18.9 ¹³	25.39 ²⁵	29.9 ¹⁸	39.57 ²⁴	26.7 ¹⁴
Aug. 8	40.62 ⁹²	25.5 ¹¹	61.55 ²⁶	17.6 ¹⁰	25.64 ²⁶	28.1 ¹⁵	39.81 ²⁶	25.3 ¹²
18	41.54 ⁹⁷	24.4 ⁸	61.81 ²⁷	16.6 ⁹	25.90 ²⁸	26.6 ¹²	40.07 ²⁷	24.1 ¹⁰
28	42.51 ¹⁰⁰	23.6 ³	62.08 ²⁸	15.7 ⁶	26.18 ²⁸	25.4 ⁸	40.34 ²⁷	23.1 ⁷
Sept. 7	43.51 ¹⁰²	23.3 [—]	62.36 ²⁸	15.1 ³	26.46 ²⁸	24.6 ³	40.61 ²⁸	22.4 ³
17	44.53 ¹⁰²	23.4 ⁴	62.64 ²⁸	14.8 ¹	26.74 ²⁹	24.3 ¹	40.89 ²⁸	22.1 ⁰
27	45.55 ¹⁰⁰	23.8 ⁸	62.92 ²⁷	14.7 ³	27.03 ²⁷	24.4 ⁵	41.17 ²⁷	22.1 ⁴
Oct. 7	46.55 ⁹⁶	24.6 ¹³	63.19 ²⁷	15.0 ⁶	27.30 ²⁷	24.9 ¹⁰	41.44 ²⁷	22.5 ⁷
17	47.51 ⁹⁰	25.9 ¹⁶	63.46 ²⁵	15.6 ⁸	27.57 ²⁵	25.9 ¹⁴	41.71 ²⁵	23.2 ¹⁰
27	48.41 ⁸²	27.5 ¹⁹	63.71 ²³	16.4 ¹¹	27.82 ²³	27.3 ¹⁸	41.96 ²³	24.2 ¹³
Nov. 6	49.23 ⁷²	29.4 ²³	63.94 ²¹	17.5 ¹²	28.05 ²¹	29.1 ²⁰	42.19 ²¹	25.5 ¹⁵
16	49.95 ⁶¹	31.7 ²⁵	64.15 ¹⁹	18.7 ¹⁴	28.26 ¹⁸	31.1 ²²	42.40 ¹⁹	27.0 ¹⁷
26	50.56 ⁴⁷	34.2 ²⁸	64.34 ¹⁵	20.1 ¹⁴	28.44 ¹⁴	33.3 ²³	42.59 ¹⁵	28.7 ¹⁷
Dec. 6	51.03 ³²	37.0 ²⁸	64.49 ¹¹	21.5 ¹⁵	28.58 ¹¹	35.6 ²⁴	42.74 ¹²	30.4 ¹⁸
16	51.35 ¹⁶	39.8 ²⁸	64.60 ⁸	23.0 ¹⁴	28.69 ⁶	38.0 ²⁴	42.86 ⁷	32.2 ¹⁷
26	51.51 ⁰	42.6 ²⁹	64.68 ³	24.4 ¹³	28.75 ¹	40.4 ²²	42.93 ³	33.9 ¹⁶
36	51.51	45.5	64.71	25.7	28.76	42.6	42.96	35.5
Mittl. Ort	37.11	44.5	59.93	17.8	24.42	32.5	38.32	26.7
	92)		93)		556)		96)	

1902	ε Orionis. 2 ^m .0.		ζ Tauri. 3 ^m .3.		ο Aurigae. 5 ^m .8.		ζ Leporis. 3 ^m .6.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. —
	5 ^h 31 ^m	1° 15'	5 ^h 31 ^m	21° 4'	5 ^h 38 ^m	49° 46'	5 ^h 42 ^m	14° 51'
Jan. 0	16.38	59.9	49.49	52.3	21.60	56.2	32.86	39.6
10	16.39	61.2	49.52	52.2	21.62	57.7	32.87	41.7
20	16.36	62.4	49.50	52.2	21.58	59.2	32.84	43.6
30	16.28	63.4	49.43	52.1	21.47	60.6	32.76	45.2
Febr. 9	16.17	64.3	49.32	52.1	21.30	61.7	32.64	46.5
19	16.03	65.0	49.17	52.1	21.08	62.5	32.49	47.6
März 1	15.86	65.4	49.00	52.0	20.83	63.1	32.31	48.3
11	15.68	65.7	48.81	51.9	20.55	63.3	32.12	48.7
21	15.50	65.8	48.61	51.8	20.26	63.2	31.92	48.8
31	15.32	65.7	48.43	51.6	19.98	62.8	31.73	48.6
April 10	15.15	65.4	48.26	51.4	19.72	62.0	31.55	48.1
20	15.01	65.0	48.11	51.1	19.49	61.0	31.39	47.3
30	14.90	64.3	48.00	50.9	19.32	59.8	31.26	46.2
Mai 10	14.83	63.5	47.93	50.8	19.20	58.3	31.16	44.9
20	14.80	62.5	47.91	50.7	19.14	56.8	31.11	43.3
30	14.81	61.3	47.93	50.6	19.15	55.2	31.10	41.5
Juni 9	14.86	60.0	48.00	50.6	19.22	53.6	31.13	39.6
19	14.97	58.5	48.12	50.8	19.37	51.9	31.21	37.4
29	15.10	57.0	48.28	51.0	19.57	50.4	31.33	35.2
Juli 9	15.27	55.5	48.47	51.2	19.82	49.1	31.48	33.1
19	15.47	54.0	48.69	51.6	20.12	48.0	31.67	31.1
29	15.70	52.6	48.94	52.0	20.46	47.0	31.88	29.2
Aug. 8	15.94	51.4	49.21	52.4	20.83	46.2	32.11	27.5
18	16.20	50.3	49.49	52.8	21.22	45.6	32.36	26.0
28	16.47	49.4	49.79	53.2	21.63	45.2	32.63	24.8
Sept. 7	16.75	48.8	50.09	53.5	22.06	45.1	32.91	24.1
17	17.03	48.5	50.39	53.7	22.49	45.1	33.19	23.7
27	17.31	48.5	50.70	53.9	22.92	45.3	33.47	23.7
Oct. 7	17.58	48.8	51.00	54.0	23.35	45.7	33.75	24.2
17	17.84	49.4	51.29	54.0	23.76	46.4	34.02	25.1
27	18.10	50.2	51.57	53.9	24.16	47.2	34.28	26.4
Nov. 6	18.34	51.3	51.83	53.7	24.53	48.2	34.52	28.0
16	18.55	52.6	52.07	53.5	24.87	49.4	34.74	29.9
26	18.74	54.0	52.28	53.3	25.17	50.7	34.93	32.0
Dec. 6	18.89	55.5	52.46	53.2	25.42	52.2	35.09	34.2
16	19.01	57.0	52.60	53.0	25.61	53.7	35.21	36.5
26	19.09	58.5	52.69	52.9	25.74	55.3	35.29	38.7
36	19.12	59.9	52.74	52.8	25.80	56.9	35.31	40.8
Mittl. Ort	14.36	51.5	47.23	58.5	18.41	60.3	30.87	29.9

97)

98)

377)

558)

1902	α Orionis. 2 ^m .6.		α Orionis. I...I ^m .4.		δ Aurigae. 4 ^m .I.		β Aurigae. 2 ^m .0.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	5 ^h 43 ^m	9° 42'	5 ^h 49 ^m	7° 23'	5 ^h 51 ^m	54° 16'	5 ^h 52 ^m	44° 56'
Jan. 0	8.44	24.7 ₁₈	54.03	12.4 ₉	30.88	33.9 ₁₉	23.32	9.9 ₁₃
10	8.46	26.5 ₁₇	54.07	11.5 ₈	30.93	35.8 ₁₇	23.38	11.2 ₁₃
20	8.43	28.2 ₁₄	54.06	10.7 ₆	30.89	37.5 ₁₆	23.36	12.5 ₁₂
30	8.36	29.6 ₁₂	54.00	10.1 ₆	30.78	39.1 ₁₄	23.28	13.7 ₁₀
Febr. 9	8.25	30.8 ₉	53.91	9.5 ₄	30.61	40.5 ₁₁	23.14	14.7 ₈
19	8.10	31.7 ₆	53.78	9.1 ₄	30.37	41.6 ₈	22.96	15.5 ₆
März 1	7.93	32.3 ₄	53.62	8.7 ₂	30.09	42.4 ₄	22.74	16.1 ₃
11	7.74	32.7 ₁	53.44	8.5 ₁	29.78	42.8 ₀	22.49	16.4 ₀
21	7.55	32.8 ₁	53.25	8.4 ₀	29.46	42.8 ₄	22.23	16.4 ₃
31	7.36	32.7 ₄	53.07	8.4 ₁	29.14	42.4 ₆	21.97	16.1 ₅
April 10	7.18	32.3 ₇	52.90	8.5 ₂	28.84	41.8 ₁₁	21.73	15.6 ₈
20	7.03	31.6 ₉	52.76	8.7 ₄	28.58	40.7 ₁₃	21.52	14.8 ₁₀
30	6.91	30.7 ₁₂	52.64	9.1 ₄	28.37	39.4 ₁₅	21.35	13.8 ₁₂
Mai 10	6.82	29.5 ₁₃	52.56	9.5 ₆	28.22	37.9 ₁₇	21.23	12.6 ₁₂
20	6.77	28.2 ₁₅	52.52	10.1 ₆	28.13	36.2 ₁₈	21.17	11.4 ₁₃
30	6.77	26.7 ₁₇	52.52	10.7 ₈	28.11	34.4 ₁₈	21.16	10.1 ₁₄
Juni 9	6.81	25.0 ₂₀	52.56	11.5 ₈	28.16	32.6 ₁₈	21.21	8.7 ₁₃
19	6.89	23.0 ₁₉	52.65	12.3 ₁₁	28.28	30.8 ₁₉	21.31	7.4 ₁₄
29	7.01	21.1 ₁₉	52.78	13.4 ₉	28.49	28.9 ₁₆	21.50	6.0 ₁₁
Juli 9	7.16	19.2 ₁₈	52.94	14.3 ₁₀	28.75	27.3 ₁₅	21.72	4.9 ₁₀
19	7.35	17.4 ₁₇	53.13	15.3 ₁₀	29.05	25.8 ₁₃	21.98	3.9 ₉
29	7.56	15.7 ₁₆	53.35	16.3 ₉	29.40	24.5 ₁₁	22.28	3.0 ₇
Aug. 8	7.79	14.1 ₁₃	53.59	17.2 ₈	29.79	23.4 ₉	22.61	2.3 ₆
18	8.04	12.8 ₁₁	53.84	18.0 ₆	30.21	22.5 ₆	22.96	1.7 ₄
28	8.31	11.7 ₇	54.11	18.6 ₄	30.65	21.9 ₄	23.33	1.3 ₃
Sept. 7	8.58	11.0 ₃	54.39	19.0 ₃	31.11	21.5 ₂	23.71	1.0 ₁
17	8.86	10.7 ₀	54.68	19.3 ₀	31.59	21.3 ₀	24.11	0.9 ₀
27	9.14	10.7 ₄	54.96	19.3 ₂	32.06	21.3 ₃	24.51	0.9 ₂
Oct. 7	9.42	11.1 ₈	55.24	19.1 ₅	32.53	21.6 ₆	24.91	1.1 ₄
17	9.69	11.9 ₁₂	55.52	18.6 ₆	33.00	22.2 ₇	25.30	1.5 ₅
27	9.95	13.1 ₁₄	55.79	18.0 ₈	33.45	22.9 ₁₀	25.67	2.0 ₇
Nov. 6	10.19	14.5 ₁₇	56.05	17.2 ₁₀	33.87	23.9 ₁₃	26.02	2.7 ₈
16	10.41	16.2 ₁₉	56.28	16.2 ₁₀	34.26	25.2 ₁₄	26.35	3.5 ₁₀
26	10.61	18.1 ₁₉	56.49	15.2 ₁₁	34.60	26.6 ₁₆	26.64	4.5 ₁₁
Dec. 6	10.77	20.0 ₂₀	56.67	14.1 ₁₀	34.89	28.2 ₁₈	26.89	5.6 ₁₂
16	10.89	22.0 ₂₀	56.81	13.1 ₁₀	35.12	30.0 ₁₈	27.09	6.8 ₁₃
26	10.97	24.0 ₁₉	56.92	12.1 ₉	35.27	31.8 ₂₀	27.23	8.1 ₁₃
36	11.01	25.9	56.98	11.2	35.36	33.8	27.32	9.4
Mittl. Ort	6.44	15.4	51.92	20.6	27.41	38.9	20.39	15.5
	(100)		(102)		379)		(103)	

1902	♃ Aurigae. 3 ^m .O.		♋ Orionis. 4 ^m .6.		♌ H. Camelop. 4 ^m .6.		♊ Gemin. 3.2...4 ^m .2.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	5 ^h 53 ^m	37° 12'	6 ^h 1 ^m	14° 46'	6 ^h 8 ^m	69° 20'	6 ^h 8 ^m	22° 31'
Jan. 0	4.97	15.3	60.77	41.4	8.18	71.1	60.04	59.7
10	5.02	16.2	60.82	40.9	8.25	73.6	60.10	59.7
20	5.02	17.1	60.82	40.5	8.19	76.1	60.11	59.7
30	4.95	17.9	60.77	40.2	8.00	78.4	60.07	59.8
Febr. 9	4.84	18.6	60.68	39.9	7.70	80.4	59.99	60.0
19	4.68	19.1	60.56	39.7	7.30	82.1	59.86	60.1
März 1	4.48	19.5	60.40	39.6	6.83	83.4	59.70	60.2
11	4.26	19.7	60.22	39.5	6.30	84.1	59.52	60.2
21	4.03	19.8	60.04	39.5	5.74	84.4	59.32	60.2
31	3.81	19.6	59.85	39.5	5.18	84.2	59.12	60.2
April 10	3.60	19.1	59.67	39.4	4.65	83.5	58.94	60.1
20	3.42	18.5	59.52	39.5	4.17	82.4	58.78	60.0
30	3.27	17.8	59.40	39.6	3.75	80.9	58.65	59.9
Mai 10	3.17	17.0	59.31	39.7	3.43	79.0	58.55	59.7
20	3.11	16.1	59.26	39.9	3.21	76.8	58.50	59.5
30	3.11	15.1	59.26	40.1	3.09	74.4	58.48	59.3
Juni 9	3.16	14.2	59.30	40.5	3.09	71.9	58.52	59.2
19	3.26	13.4	59.38	40.9	3.19	69.4	58.59	59.2
29	3.43	12.4	59.51	41.4	3.44	66.7	58.72	59.2
Juli 9	3.63	11.7	59.67	41.9	3.77	64.3	58.88	59.2
19	3.86	11.1	59.86	42.5	4.19	62.1	59.07	59.3
29	4.13	10.6	60.08	43.0	4.69	60.1	59.29	59.4
Aug. 8	4.43	10.1	60.32	43.5	5.27	58.3	59.54	59.6
18	4.75	9.8	60.58	44.0	5.90	56.7	59.81	59.7
28	5.08	9.6	60.85	44.3	6.58	55.5	60.09	59.8
Sept. 7	5.43	9.5	61.14	44.6	7.31	54.6	60.38	59.8
17	5.78	9.4	61.43	44.7	8.05	54.0	60.69	59.8
27	6.14	9.5	61.72	44.7	8.82	53.8	60.99	59.7
Oct. 7	6.49	9.6	62.02	44.5	9.58	54.0	61.30	59.5
17	6.84	9.7	62.31	44.1	10.33	54.5	61.61	59.3
27	7.18	10.0	62.59	43.7	11.06	55.4	61.91	59.0
Nov. 6	7.50	10.4	62.86	43.2	11.75	56.7	62.20	58.7
16	7.79	10.9	63.11	42.6	12.38	58.3	62.47	58.3
26	8.06	11.4	63.33	41.8	12.94	60.2	62.72	58.0
Dec. 6	8.29	12.1	63.53	41.1	13.41	62.4	62.93	57.7
16	8.47	12.9	63.69	40.4	13.79	64.8	63.11	57.5
26	8.61	13.7	63.81	39.9	14.04	67.3	63.24	57.4
36	8.69	14.6	63.88	39.4	14.17	69.9	63.33	57.4
Mittl. Ort	2.33	21.6	58.58	49.5	2.85	77.0	57.74	67.8
	104)		382)		383)		105)	

1902	μ Geminorum. 3 ^m .0.		ψ ¹ Aurigae. 5 ^m .1.		β Canis maj. 2 ^m .6.		8 Monocerot. 4 ^m .7.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +
	6 ^h 17 ^m	22° 33'	6 ^h 17 ^m	49° 19'	6 ^h 18 ^m	17° 54'	6 ^h 18 ^m	4° 38'
Jan. 0	4.21 ⁰	42.6 ⁰	24.23 ⁸	69.7 ¹⁶	25.07 ³	35.4 ²⁴	36.64 ⁶	24.7 ¹¹
10	4.28 ⁷	42.6 ⁰	24.31 ⁸	71.3 ¹⁵	25.10 ⁰	37.8 ²¹	36.70 ²	23.6 ¹⁰
20	4.30 ²	42.6 ¹	24.32 ⁶	72.8 ¹⁵	25.10 ⁵	39.9 ¹⁹	36.72 ⁴	22.6 ⁹
30	4.27 ³	42.7 ¹	24.26 ¹²	74.3 ¹⁴	25.05 ¹⁰	41.8 ¹⁷	36.68 ⁸	21.7 ⁷
Febr. 9	4.19 ¹²	42.8 ²	24.14 ¹⁸	75.7 ¹¹	24.95 ¹⁴	43.5 ¹³	36.60 ¹¹	21.0 ⁵
19	4.07 ¹⁶	43.0 ¹	23.96 ²³	76.8 ⁹	24.81 ¹⁷	44.8 ¹⁰	36.49 ¹⁵	20.5 ⁴
März 1	3.91 ¹⁸	43.1 ¹	23.73 ²⁷	77.7 ⁷	24.64 ¹⁹	45.8 ⁷	36.34 ¹⁷	20.1 ³
11	3.73 ¹⁹	43.2 ⁰	23.46 ²⁸	78.4 ²	24.45 ²⁰	46.5 ³	36.17 ¹⁸	19.8 ¹
21	3.54 ¹⁹	43.2 ⁰	23.18 ²⁹	78.6 ⁰	24.25 ²⁰	46.8 ⁰	35.99 ¹⁹	19.7 ⁰
31	3.35 ¹⁹	43.2 ⁰	22.89 ²⁷	78.6 ⁴	24.05 ²⁰	46.8 ³	35.80 ¹⁷	19.7 ¹
April 10	3.16 ¹⁷	43.2 ¹	22.62 ²⁴	78.2 ⁶	23.85 ¹⁷	46.5 ⁷	35.63 ¹⁶	19.8 ³
20	2.99 ¹³	43.1 ²	22.38 ²¹	77.6 ¹⁰	23.68 ¹⁵	45.8 ¹⁰	35.47 ¹³	20.1 ⁴
30	2.86 ¹⁰	42.9 ¹	22.17 ¹⁶	76.6 ¹²	23.53 ¹³	44.8 ¹²	35.34 ¹⁰	20.5 ⁵
Mai 10	2.76 ⁷	42.8 ²	22.01 ¹⁰	75.4 ¹³	23.40 ⁸	43.6 ¹⁵	35.24 ⁶	21.0 ⁶
20	2.69 ²	42.6 ¹	21.91 ⁵	74.1 ¹⁵	23.32 ⁵	42.1 ¹⁸	35.18 ³	21.6 ⁸
30	2.67 ³	42.5 ¹	21.86 ²	72.6 ¹⁶	23.27 ⁰	40.3 ¹⁹	35.15 ²	22.4 ⁸
Juni 9	2.70 ⁷	42.4 ¹	21.88 ⁸	71.0 ¹⁵	23.27 ⁴	38.4 ²⁰	35.17 ⁶	23.2 ¹⁰
19	2.77 ¹²	42.3 ¹	21.96 ¹⁵	69.5 ¹⁷	23.31 ⁹	36.4 ²⁴	35.23 ¹⁰	24.2 ¹¹
29	2.89 ¹⁵	42.2 ⁰	22.11 ²⁰	67.8 ¹⁵	23.40 ¹¹	34.0 ²²	35.33 ¹³	25.3 ¹¹
Juli 9	3.04 ¹⁸	42.2 ¹	22.31 ²⁵	66.3 ¹⁴	23.51 ¹⁵	31.8 ²¹	35.46 ¹⁷	26.4 ¹⁰
19	3.22 ²²	42.3 ¹	22.56 ²⁹	64.9 ¹³	23.66 ¹⁸	29.7 ²¹	35.63 ¹⁹	27.4 ¹⁰
29	3.44 ²⁴	42.4 ¹	22.85 ³²	63.6 ¹¹	23.84 ²¹	27.6 ¹⁸	35.82 ²¹	28.4 ⁹
Aug. 8	3.68 ²⁶	42.5 ⁰	23.17 ³⁶	62.5 ¹⁰	24.05 ²³	25.8 ¹⁶	36.03 ²⁴	29.3 ⁸
18	3.94 ²⁸	42.5 ⁰	23.53 ³⁹	61.5 ⁹	24.28 ²⁵	24.2 ¹³	36.27 ²⁴	30.1 ⁶
28	4.22 ²⁹	42.5 ⁰	23.92 ⁴⁰	60.6 ⁶	24.53 ²⁷	22.9 ⁹	36.52 ²⁷	30.7 ⁴
Sept. 7	4.51 ³⁰	42.5 ¹	24.32 ⁴²	60.0 ⁵	24.80 ²⁸	22.0 ⁵	36.79 ²⁸	31.1 ²
17	4.81 ³¹	42.4 ¹	24.74 ⁴³	59.5 ³	25.08 ²⁸	21.5 ¹	37.07 ²⁸	31.3 ¹
27	5.12 ³¹	42.3 ³	25.17 ⁴³	59.2 ¹	25.36 ²⁹	21.4 ⁴	37.35 ²⁸	31.2 ³
Oct. 7	5.43 ³¹	42.0 ³	25.60 ⁴³	59.1 ²	25.65 ²⁹	21.8 ⁹	37.63 ²⁹	30.9 ⁵
17	5.74 ³⁰	41.7 ³	26.03 ⁴²	59.3 ³	25.94 ²⁸	22.7 ¹³	37.92 ²⁷	30.4 ⁹
27	6.04 ³⁰	41.4 ⁴	26.45 ⁴⁰	59.6 ⁵	26.22 ²⁶	24.0 ¹⁶	38.19 ²⁷	29.5 ¹⁰
Nov. 6	6.34 ²⁸	41.0 ³	26.85 ³⁸	60.1 ⁸	26.48 ²⁵	25.6 ²⁰	38.46 ²⁶	28.5 ¹¹
16	6.62 ²⁵	40.7 ⁴	27.23 ³⁴	60.9 ¹⁰	26.73 ²²	27.6 ²²	38.72 ²³	27.4 ¹³
26	6.87 ²²	40.3 ³	27.57 ³⁰	61.9 ¹²	26.95 ¹⁹	29.8 ²⁴	38.95 ²⁰	26.1 ¹³
Dec. 6	7.09 ¹⁹	40.0 ²	27.87 ²⁵	63.1 ¹³	27.14 ¹⁶	32.2 ²⁵	39.15 ¹⁷	24.8 ¹³
16	7.28 ¹⁴	39.8 ²	28.12 ¹⁸	64.4 ¹⁵	27.30 ¹¹	34.7 ²⁵	39.32 ¹³	23.5 ¹²
26	7.42 ¹⁰	39.6 ¹	28.30 ¹²	65.9 ¹⁶	27.41 ⁶	37.2 ²⁴	39.45 ⁸	22.3 ¹²
36	7.52	39.5	28.42	67.5	27.47	39.6	39.53	21.1
Mittl. Ort	1.91	51.1	21.11	77.3	23.01	25.8	34.54	33.9
	106)		385)		561)		386)	

1902	10 Monocerot. 5 ^m .o.		8 Lynceis. 6 ^m .o.		23 H. Camelop. 5 ^m .3.		ξ ² Canis maj. 5 ^m .i.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. —
	6 ^h 23 ^m	4° 42'	6 ^h 28 ^m	61° 33'	6 ^h 29 ^m	79° 39'	6 ^h 30 ^m	22° 53'
Jan. 0	9.26 ¹⁵	14.9 ¹⁷	48.10 ¹²	55.5 ²³	40.66 ¹⁵	66.9 ²⁹	59.06 ⁴	22.6 ²⁶
10	9.31 ⁵	16.6 ¹⁵	48.22 ¹	57.8 ²²	40.81 ⁹	69.8 ²⁹	59.10 ⁰	25.2 ²⁴
20	9.33 ²	18.1 ¹³	48.23 ⁸	60.0 ²⁰	40.72 ³⁴	72.7 ²⁸	59.10 ⁵	27.6 ²²
30	9.29 ⁴	19.4 ¹²	48.15 ¹⁸	62.0 ¹⁹	40.38 ⁵⁷	75.5 ²⁴	59.05 ⁹	29.8 ¹⁹
Febr. 9	9.21 ⁸	20.6 ⁹	47.97 ²⁵	63.9 ¹⁶	39.81 ⁷⁶	77.9 ²¹	58.96 ¹⁴	31.7 ¹⁶
19	9.10 ¹⁵	21.5 ⁶	47.72 ³²	65.5 ¹³	39.05 ⁹³	80.0 ¹⁷	58.82 ¹⁸	33.3 ¹²
März 1	8.95 ¹⁸	22.1 ⁵	47.40 ³⁷	66.8 ¹⁰	38.12 ¹⁰⁵	81.7 ¹¹	58.64 ¹⁹	34.5 ⁸
11	8.77 ¹⁸	22.6 ²	47.03 ³⁹	67.8 ⁵	37.07 ¹¹³	82.8 ⁶	58.45 ²¹	35.3 ⁵
21	8.59 ¹⁹	22.8 ⁰	46.64 ⁴¹	68.3 ⁰	35.94 ¹¹⁴	83.4 ¹	58.24 ²¹	35.8 ¹
31	8.40 ¹⁸	22.8 ²	46.23 ³⁹	68.3 ³	34.80 ¹¹²	83.5 ⁵	58.03 ²¹	35.9 ³
April 10	8.22 ¹⁶	22.6 ⁴	45.84 ³⁶	68.0 ⁸	33.68 ¹⁰⁴	83.0 ¹¹	57.82 ¹⁹	35.6 ⁷
20	8.06 ¹⁴	22.2 ⁷	45.48 ³²	67.2 ¹²	32.64 ⁹³	81.9 ¹⁵	57.63 ¹⁷	34.9 ⁹
30	7.92 ¹¹	21.5 ⁸	45.16 ²⁵	66.0 ¹⁵	31.71 ⁷⁸	80.4 ²⁰	57.46 ¹³	34.0 ¹³
Mai 10	7.81 ⁷	20.7 ¹⁰	44.91 ¹⁸	64.5 ¹⁷	30.93 ⁶⁰	78.4 ²⁴	57.33 ¹⁰	32.7 ¹⁶
20	7.74 ³	19.7 ¹²	44.73 ¹¹	62.8 ²⁰	30.33 ⁴¹	76.0 ²⁶	57.23 ⁶	31.1 ¹⁹
30	7.71 ⁰	18.5 ¹³	44.62 ²	60.8 ²¹	29.92 ²⁰	73.4 ²⁷	57.17 ³	29.2 ²⁰
Juni 9	7.71 ⁵	17.2 ¹⁵	44.60 ⁶	58.7 ²²	29.72 ²	70.7 ²⁹	57.14 ²	27.2 ²³
19	7.76 ⁹	15.7 ¹⁶	44.66 ¹⁶	56.5 ²⁴	29.74 ²⁴	67.8 ³⁰	57.16 ⁶	24.9 ²⁴
29	7.85 ¹²	14.1 ¹⁵	44.82 ²²	54.1 ²²	29.98 ⁴⁹	64.8 ³²	57.22 ¹¹	22.5 ²⁵
Juli 9	7.97 ¹⁶	12.6 ¹⁵	45.04 ²⁹	51.9 ²⁰	30.47 ⁶⁴	61.6 ²⁸	57.33 ¹⁴	20.0 ²³
19	8.13 ¹⁸	11.1 ¹⁵	45.33 ³⁶	49.9 ¹⁹	31.11 ⁸²	58.8 ²⁶	57.47 ¹⁷	17.7 ²²
29	8.31 ²¹	9.6 ¹³	45.69 ⁴¹	48.0 ¹⁸	31.93 ⁹⁷	56.2 ²³	57.64 ²⁰	15.5 ²¹
Aug. 8	8.52 ²²	8.3 ¹¹	46.10 ⁴⁵	46.2 ¹⁵	32.90 ¹¹²	53.9 ²⁰	57.84 ²²	13.4 ¹⁸
18	8.74 ²⁵	7.2 ⁹	46.55 ⁵⁰	44.7 ¹³	34.02 ¹²⁴	51.9 ¹⁸	58.06 ²⁵	11.6 ¹⁴
28	8.99 ²⁶	6.3 ⁷	47.05 ⁵³	43.4 ¹¹	35.26 ¹³³	50.1 ¹⁴	58.31 ²⁷	10.2 ¹⁰
Sept. 7	9.25 ²⁷	5.6 ³	47.58 ⁵⁶	42.3 ⁸	36.59 ¹⁴⁰	48.7 ⁹	58.58 ²⁸	9.2 ⁶
17	9.52 ²⁸	5.3 ⁰	48.14 ⁵⁷	41.5 ⁵	37.99 ¹⁴⁴	47.8 ⁶	58.86 ²⁹	8.6 ²
27	9.80 ²⁸	5.3 ⁴	48.71 ⁵⁷	41.0 ¹	39.43 ¹⁴⁶	47.2 ²	59.15 ²⁹	8.4 ¹
Oct. 7	10.08 ²⁸	5.7 ⁷	49.28 ⁵⁷	40.9 ¹	40.89 ¹⁴⁶	47.0 ³	59.44 ²⁹	8.8 ⁴
17	10.36 ²⁸	6.4 ¹⁰	49.85 ⁵⁷	41.0 ⁴	42.35 ¹⁴²	47.3 ⁸	59.73 ²⁹	9.6 ⁸
27	10.64 ²⁷	7.4 ¹³	50.42 ⁵⁴	41.4 ⁸	43.77 ¹³⁵	48.1 ¹²	60.02 ²⁸	10.9 ¹⁸
Nov. 6	10.91 ²⁵	8.7 ¹⁵	50.96 ⁵¹	42.2 ¹¹	45.12 ¹²⁴	49.3 ¹⁶	60.30 ²⁶	12.7 ²¹
16	11.16 ²³	10.2 ¹⁷	51.47 ⁴⁷	43.3 ¹³	46.36 ¹¹¹	50.9 ²⁰	60.56 ²³	14.8 ²⁴
26	11.39 ²⁰	11.9 ¹⁸	51.94 ⁴⁰	44.6 ¹⁷	47.47 ⁹⁵	52.9 ²⁴	60.79 ²⁰	17.2 ²⁶
Dec. 6	11.59 ¹⁶	13.7 ¹⁹	52.34 ³³	46.3 ¹⁹	48.42 ⁷⁵	55.3 ²⁶	60.99 ¹⁷	19.8 ²⁷
16	11.75 ¹³	15.6 ¹⁸	52.67 ²⁵	48.2 ²¹	49.17 ⁵²	57.9 ²⁸	61.16 ¹²	22.5 ²⁷
26	11.88 ⁷	17.4 ¹⁷	52.92 ¹⁶	50.3 ²²	49.69 ²⁸	60.7 ³⁰	61.28 ⁷	25.2 ²⁷
36	11.95	19.1	53.08	52.5	49.97	63.7	61.35	27.9
Mittl. Ort	7.20	5.5	44.07	63.8	30.99	74.7	56.96	13.1
	562)		388)		387)		563)	

1902	51 Aurigae. 6 ^m .4.		7 Geminorum. 2 ^m .3.		S Monoc. 5.0...5 ^m .5		ε Geminorum. 3 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	6 ^h 31 ^m	39° 28'	6 ^h 32 ^m	16° 28'	6 ^h 35 ^m	9° 58'	6 ^h 37 ^m	25° 13'
Jan. 0	54.78 ¹⁰	29.9 ¹⁰	5.25 ⁹	49.9 ⁴	37.02 ⁸	62.0 ⁸	56.49 ⁹	32.7 ¹
10	54.88 ³	30.9 ¹⁰	5.34 ³	49.5 ⁴	37.10 ³	61.2 ⁷	56.58 ⁴	32.8 ²
20	54.91 ²	31.9 ¹⁰	5.37 ²	49.1 ²	37.13 ¹	60.5 ⁶	56.62 ¹	33.0 ³
30	54.89 ⁹	32.9 ¹⁰	5.35 ⁷	48.9 ¹	37.12 ⁷	59.9 ⁵	56.61 ⁶	33.3 ³
Febr. 9	54.80 ¹³	33.9 ⁹	5.28 ¹⁰	48.8 ¹	37.05 ¹⁰	59.4 ⁴	56.55 ¹¹	33.6 ³
19	54.67 ¹⁸	34.8 ⁷	5.18 ¹⁵	48.7 ⁰	36.95 ¹⁴	59.0 ²	56.44 ¹⁵	33.9 ³
März 1	54.49 ²²	35.5 ⁵	5.03 ¹⁷	48.7 ⁰	36.81 ¹⁶	58.8 ¹	56.29 ¹⁸	34.2 ³
11	54.27 ²³	36.0 ⁴	4.86 ¹⁸	48.7 ⁰	36.65 ¹⁸	58.7 ⁰	56.11 ¹⁹	34.5 ²
21	54.04 ²³	36.4 ¹	4.68 ¹⁹	48.7 ⁰	36.47 ¹⁹	58.7 ⁰	55.92 ²⁰	34.7 ¹
31	53.81 ²³	36.5 ²	4.49 ¹⁸	48.7 ¹	36.28 ¹⁸	58.7 ¹	55.72 ¹⁹	34.8 ⁰
April 10	53.58 ²¹	36.3 ³	4.31 ¹⁶	48.8 ¹	36.10 ¹⁶	58.8 ¹	55.53 ¹⁸	34.8 ¹
20	53.37 ¹⁸	36.0 ⁶	4.15 ¹⁴	48.9 ¹	35.94 ¹⁴	58.9 ³	55.35 ¹⁵	34.7 ²
30	53.19 ¹⁴	35.4 ⁷	4.01 ¹¹	49.0 ¹	35.80 ¹⁰	59.2 ³	55.20 ¹²	34.5 ²
Mai 10	53.05 ⁹	34.7 ⁹	3.90 ⁷	49.1 ¹	35.70 ⁸	59.5 ⁴	55.08 ⁸	34.3 ²
20	52.96 ⁵	33.8 ¹⁰	3.83 ⁴	49.2 ¹	35.62 ³	59.9 ⁵	55.00 ⁴	34.1 ³
30	52.91 ¹	32.8 ¹⁰	3.79 ¹	49.3 ²	35.59 ⁰	60.4 ⁵	54.96 ¹	33.8 ³
Juni 9	52.92 ⁶	31.8 ¹¹	3.80 ⁶	49.5 ³	35.59 ⁵	60.9 ⁶	54.97 ⁵	33.5 ²
19	52.98 ¹¹	30.7 ¹⁰	3.86 ⁹	49.8 ³	35.64 ⁸	61.5 ⁷	55.02 ⁹	33.3 ³
29	53.09 ¹⁷	29.7 ¹¹	3.95 ¹⁴	50.1 ³	35.72 ¹³	62.2 ⁸	55.11 ¹⁴	33.0 ²
Juli 9	53.26 ¹⁹	28.6 ¹⁰	4.09 ¹⁶	50.4 ⁴	35.85 ¹⁶	63.0 ⁷	55.25 ¹⁷	32.8 ¹
19	53.45 ²⁴	27.6 ⁹	4.25 ²⁰	50.8 ³	36.01 ¹⁸	63.7 ⁶	55.42 ²⁰	32.7 ²
29	53.69 ²⁷	26.7 ⁸	4.45 ²²	51.1 ³	36.19 ²⁰	64.3 ⁶	55.62 ²³	32.5 ²
Ang. 8	53.96 ³⁰	25.9 ⁸	4.67 ²⁴	51.4 ²	36.39 ²³	64.9 ⁵	55.85 ²⁵	32.3 ²
18	54.26 ³²	25.1 ⁶	4.91 ²⁶	51.6 ²	36.62 ²⁵	65.4 ⁴	56.10 ²⁷	32.1 ²
28	54.58 ³³	24.5 ⁶	5.17 ²⁷	51.8 ⁰	36.87 ²⁷	65.8 ²	56.37 ²⁹	31.9 ²
Sept. 7	54.91 ³⁶	23.9 ⁵	5.44 ²⁸	51.8 ¹	37.14 ²⁷	66.0 ⁰	56.66 ³⁰	31.7 ³
17	55.27 ³⁶	23.4 ⁴	5.72 ³⁰	51.7 ²	37.41 ²⁹	66.0 ¹	56.96 ³¹	31.4 ³
27	55.63 ³⁷	23.0 ³	6.02 ³⁰	51.5 ³	37.70 ²⁹	65.9 ⁴	57.27 ³¹	31.1 ³
Oct. 7	56.00 ³⁷	22.7 ²	6.32 ³⁰	51.2 ³	37.99 ²⁹	65.5 ⁵	57.58 ³¹	30.7 ⁴
17	56.37 ³⁷	22.5 ¹	6.62 ³⁰	50.7 ⁵	38.28 ²⁹	65.0 ⁸	57.90 ³²	30.3 ⁴
27	56.74 ³⁵	22.4 ¹	6.92 ²⁹	50.1 ⁶	38.57 ²⁸	64.2 ⁹	58.22 ³¹	29.8 ⁴
Nov. 6	57.09 ³⁴	22.5 ²	7.21 ²⁷	49.5 ⁸	38.85 ²⁷	63.3 ¹⁰	58.53 ³⁰	29.4 ⁴
16	57.43 ³¹	22.7 ⁴	7.48 ²⁵	48.7 ⁷	39.12 ²⁵	62.3 ¹⁰	58.83 ²⁷	29.0 ³
26	57.74 ²⁸	23.1 ⁵	7.73 ²³	48.0 ⁷	39.37 ²²	61.3 ¹¹	59.10 ²⁵	28.7 ³
Dec. 6	58.02 ²³	23.6 ⁷	7.96 ²⁰	47.3 ⁷	39.59 ¹⁹	60.2 ¹¹	59.35 ²¹	28.4 ²
16	58.25 ¹⁸	24.3 ⁹	8.16 ¹⁵	46.6 ⁶	39.78 ¹⁵	59.1 ¹⁰	59.56 ¹⁷	28.2 ⁰
26	58.43 ¹³	25.2 ⁹	8.31 ¹⁰	46.0 ⁵	39.93 ¹⁰	58.1 ⁹	59.73 ¹²	28.2 ⁰
36	58.56	26.1	8.41	45.5	40.03	57.2	59.85	28.2
Mittl. Ort	52.10	38.9	3.04	59.3	34.88	71.6	54.16	42.3
	389)		107)		108)		109)	

1902	ξ Geminorum. 3 ^m .6.		α Canis maj.*) 1 ^m .		18 Monocerot. 5 ^m .0.		θ Geminorum. 3 ^m .3.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	6 ^h 39 ^m	12° 59'	6 ^h 40 ^m	16° 34'	6 ^h 42 ^m	2° 30'	6 ^h 46 ^m	34° 4'
Jan. 0	49.51	55.3	51.84	62.7	47.15	60.4	22.37	37.3
10	49.60	54.6	51.90	65.1	47.23	59.1	22.48	37.9
20	49.64	54.0	51.92	67.3	47.26	57.9	22.53	38.6
30	49.63	53.5	51.88	69.2	47.25	56.9	22.52	39.3
Febr. 9	49.57	53.2	51.79	70.9	47.19	56.0	22.46	40.1
19	49.47	53.0	51.66	72.4	47.09	55.3	22.35	40.8
März 1	49.33	52.9	51.50	73.4	46.95	54.8	22.19	41.5
11	49.16	52.8	51.32	74.2	46.79	54.5	22.00	42.0
21	48.98	52.8	51.13	74.6	46.62	54.4	21.80	42.3
31	48.80	52.9	50.93	74.8	46.43	54.4	21.58	42.5
April 10	48.62	53.0	50.73	74.6	46.25	54.5	21.37	42.6
20	48.45	53.1	50.55	74.1	46.09	54.8	21.17	42.4
30	48.31	53.3	50.39	73.2	45.95	55.2	20.99	42.1
Mai 10	48.20	53.5	50.26	72.1	45.83	55.8	20.86	41.6
20	48.12	53.8	50.17	70.8	45.75	56.5	20.76	41.0
30	48.09	54.1	50.11	69.2	45.71	57.3	20.71	40.3
Juni 9	48.09	54.4	50.09	67.5	45.70	58.2	20.70	39.6
19	48.13	54.9	50.11	65.6	45.74	59.2	20.74	38.8
29	48.21	55.4	50.17	63.6	45.81	60.3	20.83	38.1
Juli 9	48.34	55.9	50.28	61.4	45.93	61.5	20.98	37.3
19	48.49	56.4	50.41	59.4	46.07	62.6	21.15	36.5
29	48.67	56.9	50.58	57.5	46.24	63.6	21.36	35.8
Aug. 8	48.88	57.3	50.77	55.7	46.44	64.5	21.60	35.2
18	49.11	57.7	50.99	54.2	46.65	65.3	21.86	34.5
28	49.36	57.9	51.23	53.0	46.89	66.0	22.15	33.9
Sept. 7	49.62	58.0	51.48	52.2	47.15	66.4	22.46	33.4
17	49.90	58.0	51.75	51.7	47.41	66.5	22.79	32.8
27	50.19	57.7	52.03	51.6	47.69	66.4	23.12	32.3
Oct. 7	50.48	57.3	52.32	52.1	47.97	66.0	23.47	31.9
17	50.78	56.8	52.61	52.9	48.26	65.4	23.82	31.5
27	51.07	56.1	52.89	54.2	48.55	64.5	24.16	31.2
Nov. 6	51.36	55.3	53.16	55.8	48.82	63.3	24.50	30.9
16	51.64	54.4	53.42	57.8	49.09	62.0	24.83	30.8
26	51.89	53.4	53.66	59.9	49.34	60.6	25.13	30.8
Dec. 6	52.12	52.5	53.86	62.4	49.56	59.1	25.41	31.0
16	52.32	51.6	54.03	64.9	49.75	57.6	25.64	31.3
26	52.47	50.7	54.16	67.4	49.90	56.2	25.83	31.7
36	52.58	50.0	54.24	69.9	50.00	54.8	25.97	32.3
Mittl. Ort	47.35	64.9	49.90	53.8	45.06	70.1	19.87	47.3
	110)		564)		392)		112)	

*) Ort des Hauptsterns; die jährliche Parallaxe ist bereits angebracht.

1902	15 Lynceis. 4 ^m .7.		♃ Canis maj. 4 ^m .3.		ε Canis maj. 1 ^m .6.		ζ Gemin. 3.7...4 ^m .5.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. -	AR.	Decl. +
	6 ^h 48 ^m	58° 32'	6 ^h 49 ^m	11° 54'	6 ^h 54 ^m	28° 50'	6 ^h 58 ^m	20° 42'
Jan. 0	51.25 ¹⁵	55.5 ²¹	40.25 ⁷	66.2 ²¹	48.58 ⁶	27.9 ³⁰	20.06 ¹¹	40.9 ²
10	51.40 ⁶	57.6 ²⁰	40.32 ³	68.3 ²⁰	48.64 ²	30.9 ²⁸	20.17 ⁶	40.7 ¹
20	51.46 ⁴	59.6 ²¹	40.35 ²	70.3 ¹⁸	48.66 ⁴	33.7 ²⁵	20.23 ¹	40.6 ⁰
30	51.42 ¹²	61.7 ¹⁹	40.33 ⁶	72.1 ¹⁵	48.62 ⁹	36.2 ²²	20.24 ⁴	40.6 ¹
Febr. 9	51.30 ²⁰	63.6 ¹⁷	40.27 ¹¹	73.6 ¹³	48.53 ¹³	38.4 ¹⁹	20.20 ⁹	40.7 ¹
19	51.10 ²⁶	65.3 ¹⁴	40.16 ¹⁴	74.9 ¹⁰	48.40 ¹⁷	40.3 ¹⁶	20.11 ¹⁴	40.8 ²
März 1	50.84 ³²	66.7 ¹⁰	40.02 ¹⁷	75.9 ⁷	48.23 ²⁰	41.9 ¹¹	19.97 ¹⁶	41.0 ²
11	50.52 ³⁵	67.7 ⁷	39.85 ¹⁸	76.6 ⁴	48.03 ²²	43.0 ⁷	19.81 ¹⁸	41.2 ²
21	50.17 ³⁶	68.4 ³	39.67 ²⁰	77.0 ¹	47.81 ²²	43.7 ⁴	19.63 ¹⁸	41.4 ²
31	49.81 ³⁶	68.7 ¹	39.47 ¹⁸	77.1 ¹	47.59 ²²	44.1 ¹	19.45 ¹⁹	41.6 ¹
April 10	49.45 ³⁴	68.6 ⁵	39.29 ¹⁸	77.0 ⁵	47.37 ²²	44.0 ⁵	19.26 ¹⁸	41.7 ¹
20	49.11 ³⁰	68.1 ⁸	39.11 ¹⁶	76.5 ⁷	47.15 ¹⁹	43.5 ⁹	19.08 ¹⁵	41.8 ⁰
30	48.81 ²⁵	67.3 ¹³	38.95 ¹³	75.8 ⁹	46.96 ¹⁶	42.6 ¹³	18.93 ¹³	41.8 ⁰
Mai 10	48.56 ¹⁸	66.0 ¹⁵	38.82 ⁹	74.9 ¹¹	46.80 ¹³	41.3 ¹⁵	18.80 ⁹	41.8 ⁰
20	48.38 ¹²	64.5 ¹⁷	38.73 ⁶	73.8 ¹⁴	46.67 ⁹	39.8 ¹⁹	18.71 ⁵	41.8 ⁰
30	48.26 ⁵	62.8 ²⁰	38.67 ³	72.4 ¹⁵	46.58 ⁶	37.9 ²²	18.66 ¹	41.8 ⁰
Juni 9	48.21 ²	60.8 ²⁰	38.64 ²	70.9 ¹⁷	46.52 ¹	35.7 ²³	18.65 ²	41.8 ¹
19	48.23 ¹⁰	58.8 ²⁰	38.66 ⁵	69.2 ¹⁸	46.51 ³	33.4 ²⁴	18.67 ⁷	41.7 ⁰
29	48.33 ¹⁹	56.8 ²³	38.71 ¹⁰	67.4 ²⁰	46.54 ⁸	31.0 ²⁸	18.74 ¹²	41.7 ⁰
Juli 9	48.52 ²⁴	54.5 ²¹	38.81 ¹³	65.4 ¹⁸	46.62 ¹¹	28.2 ²⁶	18.86 ¹⁴	41.7 ⁰
19	48.76 ³⁰	52.4 ¹⁹	38.94 ¹⁵	63.6 ¹⁸	46.73 ¹⁵	25.6 ²⁴	19.00 ¹⁸	41.7 ⁰
29	49.06 ³⁵	50.5 ¹⁸	39.09 ¹⁹	61.8 ¹⁶	46.88 ¹⁸	23.2 ²³	19.18 ²⁰	41.7 ⁰
Aug. 8	49.41 ⁴⁰	48.7 ¹⁶	39.28 ²¹	60.2 ¹⁴	47.06 ²¹	20.9 ²⁰	19.38 ²³	41.7 ¹
18	49.81 ⁴⁴	47.1 ¹⁵	39.49 ²³	58.8 ¹¹	47.27 ²⁴	18.9 ¹⁷	19.61 ²⁴	41.6 ²
28	50.25 ⁴⁶	45.6 ¹²	39.72 ²⁵	57.7 ⁸	47.51 ²⁶	17.2 ¹²	19.85 ²⁷	41.4 ²
Sept. 7	50.71 ⁵⁰	44.4 ¹¹	39.97 ²⁶	56.9 ⁵	47.77 ²⁸	16.0 ⁹	20.12 ²⁸	41.2 ⁴
17	51.21 ⁵²	43.3 ⁷	40.23 ²⁷	56.4 ¹	48.05 ²⁹	15.1 ³	20.40 ³⁰	40.8 ⁴
27	51.73 ⁵³	42.6 ⁵	40.50 ²⁹	56.3 ³	48.34 ³¹	14.8 ²	20.70 ³⁰	40.4 ⁵
Oct. 7	52.26 ⁵³	42.1 ²	40.79 ²⁸	56.6 ⁸	48.65 ³⁰	15.0 ⁸	21.00 ³¹	39.9 ⁶
17	52.79 ⁵³	41.9 ¹	41.07 ²⁹	57.4 ¹¹	48.95 ³¹	15.8 ¹²	21.31 ³²	39.3 ⁷
27	53.32 ⁵²	42.0 ⁴	41.36 ²⁸	58.5 ¹⁵	49.26 ³⁰	17.0 ¹⁸	21.63 ³¹	38.6 ⁷
Nov. 6	53.84 ⁴⁹	42.4 ⁸	41.64 ²⁶	60.0 ¹⁸	49.56 ²⁸	18.8 ²¹	21.94 ²⁹	37.9 ⁷
16	54.33 ⁴⁵	43.2 ¹⁰	41.90 ²⁵	61.8 ²⁰	49.84 ²⁶	20.9 ²⁵	22.23 ²⁸	37.2 ⁷
26	54.78 ⁴⁰	44.2 ¹⁴	42.15 ²²	63.8 ²¹	50.10 ²²	23.4 ²⁸	22.51 ²⁶	36.5 ⁶
Dec. 6	55.18 ³⁴	45.6 ¹⁶	42.37 ¹⁹	65.9 ²³	50.32 ¹⁹	26.2 ³⁰	22.77 ²²	35.9 ⁵
16	55.52 ²⁷	47.2 ¹⁸	42.56 ¹⁵	68.2 ²³	50.51 ¹⁵	29.2 ³⁰	22.99 ¹⁹	35.4 ⁴
26	55.79 ¹⁹	49.0 ²⁰	42.71 ⁹	70.5 ²¹	50.66 ⁹	32.2 ³⁰	23.18 ¹³	35.0 ³
36	55.98	51.0	42.80	72.6	50.75	35.2	23.31	34.7
Mittl. Ort	47.61	65.6	38.18	56.7	46.41	19.1	17.83	51.4
	394)		565)		566)		113)	

1902	γ Canis maj. 4 ^m .3.		δ Canis maj. 2 ^m .0.		63 Aurigae. 5 ^m .0.		λ Geminorum. 3 ^m .8.	
	AR.	Decl.	AR.	Decl.	AR.	Decl. +	AR.	Decl. +
	6 ^h 59 ^m	15° 29'	7 ^h 4 ^m	26° 14'	7 ^h 4 ^m	39° 28'	7 ^h 12 ^m	16° 42'
Jan. 0	21.50 ⁸	27.6 ²⁴	26.51 ⁸	24.1 ²⁹	57.56 ¹³	39.7 ⁸	29.86 ¹²	52.0 ⁶
10	21.58 ⁴	30.0 ²²	26.59 ³	27.0 ²⁷	57.69 ⁸	40.5 ¹⁰	29.98 ⁷	51.4 ⁴
20	21.62 ¹	32.2 ²⁰	26.62 ³	29.7 ²⁵	57.77 ¹	41.5 ¹¹	30.05 ²	51.0 ²
30	21.61 ⁶	34.2 ¹⁷	26.59 ⁷	32.2 ²²	57.78 [—]	42.6 ¹¹	30.07 [—]	50.8 ²
Febr. 9	21.55 ¹¹	35.9 ¹⁵	26.52 ¹²	34.4 ¹⁹	57.73 ⁵	43.7 ¹¹	30.04 ³	50.6 ⁰
19	21.44 ¹⁴	37.4 ¹¹	26.40 ¹⁶	36.3 ¹⁶	57.63 ¹⁶	44.8 ⁹	29.96 ¹²	50.6 ¹
März 1	21.30 ¹⁷	38.5 ⁹	26.24 ¹⁸	37.9 ¹¹	57.47 ¹⁹	45.7 ⁸	29.84 ¹⁵	50.7 ¹
11	21.13 ¹⁸	39.4 ⁵	26.06 ²¹	39.0 ⁸	57.28 ²²	46.5 ⁶	29.69 ¹⁷	50.8 ¹
21	20.95 ²⁰	39.9 ²	25.85 ²²	39.8 ³	57.06 ²³	47.1 ³	29.52 ¹⁸	50.9 ²
31	20.75 ¹⁹	40.1 ¹	25.63 ²¹	40.1 ⁰	56.83 ²³	47.4 ²	29.34 ¹⁸	51.1 ²
April 10	20.56 ¹⁸	40.0 ⁴	25.42 ²⁰	40.1 ⁴	56.60 ²²	47.6 ¹	29.16 ¹⁸	51.3 ²
20	20.38 ¹⁷	39.6 ⁷	25.22 ¹⁹	39.7 ⁸	56.38 ²⁰	47.5 ⁴	28.98 ¹⁵	51.5 ¹
30	20.21 ¹⁴	38.9 ¹⁰	25.03 ¹⁶	38.9 ¹¹	56.18 ¹⁶	47.1 ⁵	28.83 ¹³	51.6 ²
Mai 10	20.07 ¹⁰	37.9 ¹²	24.87 ¹³	37.8 ¹⁵	56.02 ¹²	46.6 ⁷	28.70 ¹⁰	51.8 ¹
20	19.97 ⁷	36.7 ¹⁵	24.74 ¹⁰	36.3 ¹⁷	55.90 ⁸	45.9 ⁸	28.60 ⁶	51.9 ²
30	19.90 ⁴	35.2 ¹⁶	24.64 ⁵	34.6 ²⁰	55.82 ²	45.1 ¹⁰	28.54 ²	52.1 ²
Juni 9	19.86 ⁰	33.6 ¹⁸	24.59 ²	32.6 ²²	55.80 ²	44.1 ¹⁰	28.52 ¹	52.3 ²
19	19.86 ⁴	31.8 ¹⁹	24.57 ³	30.4 ²⁴	55.82 ⁶	43.1 ¹¹	28.53 ⁵	52.5 ²
29	19.90 ⁶	29.9 ²¹	24.60 ⁷	28.0 ²⁶	55.88 ¹³	42.0 ¹²	28.58 ¹⁰	52.7 ²
Juli 9	19.99 ¹²	27.8 ²⁰	24.67 ¹⁰	25.4 ²⁴	56.01 ¹⁶	40.8 ¹²	28.68 ¹³	52.9 ²
19	20.11 ¹⁵	25.8 ¹⁹	24.77 ¹⁴	23.0 ²⁴	56.17 ²⁰	39.6 ¹¹	28.81 ¹⁵	53.1 ²
29	20.26 ¹⁷	23.9 ¹⁸	24.91 ¹⁷	20.6 ²²	56.37 ²⁴	38.5 ¹⁰	28.96 ¹⁹	53.3 ¹
Aug. 8	20.43 ²⁰	22.1 ¹⁵	25.08 ²⁰	18.4 ¹⁹	56.61 ²⁷	37.5 ¹⁰	29.15 ²¹	53.4 ⁰
18	20.63 ²²	20.6 ¹³	25.28 ²³	16.5 ¹⁶	56.88 ²⁹	36.5 ¹⁰	29.36 ²³	53.4 ¹
28	20.85 ²⁵	19.3 ⁹	25.51 ²⁵	14.9 ¹³	57.17 ³¹	35.5 ⁹	29.59 ²⁵	53.3 ¹
Sept. 7	21.10 ²⁶	18.4 ⁶	25.76 ²⁷	13.6 ⁸	57.48 ³⁴	34.6 ⁸	29.84 ²⁷	53.2 ³
17	21.36 ²⁸	17.8 ¹	26.03 ²⁹	12.8 ³	57.82 ³⁵	33.8 ⁸	30.11 ²⁸	52.9 ⁵
27	21.64 ²⁸	17.7 ³	26.32 ³⁰	12.5 ¹	58.17 ³⁷	33.0 ⁶	30.39 ³⁰	52.4 ⁵
Oct. 7	21.92 ²⁹	18.0 ⁷	26.62 ³⁰	12.6 ⁷	58.54 ³⁷	32.4 ⁶	30.69 ³⁰	51.9 ⁷
17	22.21 ²⁹	18.7 ¹¹	26.92 ³⁰	13.3 ¹²	58.91 ³⁸	31.8 ⁴	30.99 ³¹	51.2 ⁹
27	22.50 ²⁸	19.8 ¹⁵	27.22 ³⁰	14.5 ¹⁷	59.29 ³⁷	31.4 ³	31.30 ³¹	50.3 ⁹
Nov. 6	22.78 ²⁸	21.3 ¹⁹	27.52 ²⁹	16.2 ²¹	59.66 ³⁶	31.1 ¹	31.61 ³⁰	49.4 ⁹
16	23.06 ²⁵	23.2 ²²	27.81 ²⁶	18.3 ²⁴	60.02 ³³	31.0 ¹	31.91 ²⁸	48.5 ¹⁰
26	23.31 ²³	25.4 ²³	28.07 ²³	20.7 ²⁷	60.35 ³¹	31.1 ³	32.19 ²⁶	47.5 ⁹
Dec. 6	23.54 ¹⁹	27.7 ²⁴	28.30 ²⁰	23.4 ²⁹	60.66 ²⁸	31.4 ⁵	32.45 ²²	46.6 ⁸
16	23.73 ¹⁶	30.1 ²⁴	28.50 ¹⁶	26.3 ²⁹	60.94 ²²	31.9 ⁸	32.67 ¹⁹	45.8 ⁷
26	23.89 ¹⁰	32.5 ²⁴	28.66 ¹⁰	29.2 ²⁹	61.16 ¹⁶	32.7 ⁸	32.86 ¹⁵	45.1 ⁶
36	23.99	34.9	28.76	32.1	61.32	33.5	33.01	44.5
Mittl. Ort	19.43	18.4	24.37	15.5	54.96	50.9	27.69	62.8
	567)		568)		395)		114)	

1902	♋ Geminorum. 3 ^m .3.		♌ Lyncis seq. 5 ^m .1.		♊ Geminorum. 4 ^m .0.		Gr. 1308. 6 ^m .0.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	7 ^h 14 ^m	22° 9'	7 ^h 14 ^m	55° 27'	7 ^h 19 ^m	27° 59'	7 ^h 20 ^m	68° 39'
Jan. 0	18.46 ¹³	36.0 ²	55.61 ¹⁹	46.5 ¹⁸	40.75 ¹⁵	23.5 ²	46.12 ²⁶	44.3 ²⁴
10	18.59 ⁸	35.8 ¹	55.80 ¹⁰	48.3 ¹⁹	40.90 ⁸	23.7 ³	46.38 ¹²	46.7 ²⁵
20	18.67 ²	35.7 [—]	55.90 ¹	50.2 ¹⁹	40.98 ³	24.0 ⁴	46.50 ⁰	49.2 ²⁶
30	18.69 [—]	35.8 ¹	55.91 [—]	52.1 ¹⁹	41.01 [—]	24.4 ⁵	46.50 ¹²	51.8 ²⁴
Febr. 9	18.66 ³	36.0 ²	55.84 ⁷	54.0 ¹⁸	40.98 ³	24.9 ⁵	46.38 ¹²	54.2 ²⁴
19	18.59 ⁷	36.2 ²	55.84 ¹⁴	54.0 ¹⁸	40.98 ⁷	24.9 ⁵	46.38 ²⁴	54.2 ²³
März 1	18.59 ¹²	36.2 ³	55.70 ²¹	55.8 ¹⁵	40.91 ¹²	25.4 ⁶	46.14 ³⁵	56.5 ¹⁹
11	18.47 ¹⁶	36.5 ³	55.49 ²⁷	57.3 ¹³	40.79 ¹⁶	26.0 ⁵	45.79 ⁴³	58.4 ¹⁶
21	18.31 ¹⁸	36.8 ³	55.22 ³⁰	58.6 ¹⁰	40.63 ¹⁸	26.5 ⁴	45.36 ⁴⁹	60.0 ¹²
31	18.13 ¹⁸	37.1 ²	54.92 ³³	59.6 ⁶	40.45 ²⁰	26.9 ⁴	44.87 ⁵²	61.2 ⁸
April 10	17.95 ¹⁹	37.3 ²	54.59 ³³	60.2 ²	40.25 ²⁰	27.3 ²	44.35 ⁵³	62.0 [—]
20	17.76 ¹⁸	37.5 ²	54.26 ³¹	60.4 ²	40.05 ¹⁹	27.5 ¹	43.82 ⁵²	62.2 [—]
30	17.58 ¹⁶	37.7 ¹	53.95 ²⁹	60.2 ⁶	39.86 ¹⁷	27.6 ⁰	43.30 ⁴⁹	62.0 ⁷
Mai 10	17.42 ¹⁴	37.8 ⁰	53.66 ²⁴	59.6 ⁹	39.69 ¹⁵	27.6 ¹	42.81 ⁴³	61.3 ¹²
20	17.28 ¹⁰	37.8 ¹	53.42 ²⁰	58.7 ¹²	39.54 ¹¹	27.5 ²	42.38 ³⁵	60.1 ¹⁶
30	17.18 ⁶	37.7 ⁰	53.22 ¹⁵	57.5 ¹⁵	39.43 ⁷	27.3 ³	42.03 ²⁷	58.5 ¹⁹
Juni 9	17.12 ³	37.7 ¹	53.07 ⁷	56.0 ¹⁶	39.36 ³	27.0 ⁴	41.76 ¹⁷	56.6 ²²
19	17.09 ¹	37.6 ¹	53.00 ¹	54.4 ¹⁸	39.33 ¹	26.6 ⁴	41.59 ⁷	54.4 ²⁴
29	17.10 ⁵	37.5 ¹	52.99 [—]	52.6 ²⁰	39.34 ⁴	26.2 ⁵	41.52 [—]	52.0 ²⁵
Juli 9	17.15 ¹⁰	37.4 ²	53.04 ¹²	50.6 ²⁰	39.38 ⁹	25.7 ⁴	41.54 ¹³	49.5 ²⁶
19	17.25 ¹⁴	37.2 ¹	53.16 ²⁰	48.6 ²²	39.47 ¹⁴	25.3 ⁶	41.67 ²⁴	46.9 ²⁸
29	17.39 ¹⁶	37.1 ²	53.36 ²⁴	46.4 ¹⁹	39.61 ¹⁶	24.7 ⁵	41.91 ³²	44.1 ²⁶
Aug. 8	17.55 ¹⁹	36.9 ²	53.60 ²⁸	44.5 ¹⁹	39.77 ¹⁹	24.2 ⁵	42.23 ⁴⁰	41.5 ²⁵
18	17.74 ²²	36.7 ²	53.88 ³⁴	42.6 ¹⁸	39.96 ²²	23.7 ⁶	42.63 ⁴⁸	39.0 ²³
28	17.96 ²⁴	36.5 ³	54.22 ³⁷	40.8 ¹⁶	40.18 ²⁵	23.1 ⁶	43.11 ⁵⁵	36.7 ²¹
Sept. 7	18.20 ²⁶	36.2 ⁴	54.59 ⁴¹	39.2 ¹⁵	40.43 ²⁷	22.5 ⁶	43.66 ⁶⁰	34.6 ¹⁸
17	18.46 ²⁷	35.8 ⁵	55.00 ⁴⁴	37.7 ¹³	40.70 ²⁹	21.9 ⁷	44.26 ⁶⁶	32.8 ¹⁶
27	18.73 ³⁰	35.3 ⁵	55.44 ⁴⁶	36.4 ¹¹	40.99 ³⁰	21.2 ⁷	44.92 ⁶⁹	31.2 ¹⁴
Oct. 7	19.03 ³⁰	34.8 ⁶	55.90 ⁴⁸	35.3 ⁸	41.29 ³²	20.5 ⁷	45.61 ⁷²	29.8 ⁹
17	19.33 ³¹	34.2 ⁷	56.38 ⁵⁰	34.5 ⁶	41.61 ³³	19.8 ⁸	46.33 ⁷⁵	28.9 ⁶
27	19.64 ³²	33.5 ⁸	56.88 ⁴⁹	33.9 ³	41.94 ³⁴	19.0 ⁷	47.08 ⁷⁵	28.3 [—]
Nov. 6	19.96 ³¹	32.7 ⁸	57.37 ⁴⁹	33.6 ⁰	42.28 ³³	18.3 ⁷	47.83 ⁷⁴	28.1 [—]
16	20.27 ³¹	31.9 ⁸	57.86 ⁴⁸	33.6 ⁴	42.61 ³²	17.6 ⁶	48.57 ⁷¹	28.3 ⁶
26	20.58 ³⁰	31.1 ⁷	58.34 ⁴⁵	34.0 ⁶	42.93 ³¹	17.0 ⁵	49.28 ⁶⁷	28.9 ¹¹
Dec. 6	20.88 ²⁷	30.4 ⁶	58.79 ⁴¹	34.6 ⁹	43.24 ²⁹	16.5 ⁴	49.95 ⁶⁰	30.0 ¹⁴
16	21.15 ²⁴	29.8 ⁵	59.20 ³⁶	35.5 ¹³	43.53 ²⁵	16.1 ³	50.55 ⁵²	31.4 ¹⁸
26	21.39 ²⁰	29.3 ⁵	59.56 ²⁹	36.8 ¹⁵	43.78 ²¹	15.8 ¹	51.07 ⁴³	33.2 ²¹
36	21.59 ¹⁵	28.8 ²	59.85 ²²	38.3 ¹⁷	43.99 ¹⁷	15.7 [—]	51.50 ³¹	35.3 ²³
36	21.74 [—]	28.6 [—]	60.07 [—]	40.0 [—]	44.16 [—]	15.8 [—]	51.81 [—]	37.6 [—]
Mittl. Ort	16.24	47.2	52.33	58.8	38.46	35.3	41.42	57.2
	II5)		397)		II7)		II6)	

1902	β Canis min. 3 ^m .0.		ρ Geminorum. 4 ^m .8.		α Gemin. 2.3 u. 3 ^m .3.		25 Monocer. 5 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	7 ^h 21 ^m	8° 28'	7 ^h 22 ^m	31° 58'	7 ^h 28 ^m	32° 5'	7 ^h 32 ^m	3° 53'
Jan. 0	52.28 ¹²	62.7 ¹⁰	50.84 ¹⁶	35.0 ⁴	23.03 ¹⁶	61.1 ⁴	26.26 ¹²	41.0 ¹⁸
10	52.40 ⁸	61.7 ⁹	51.00 ⁹	35.4 ⁵	23.19 ¹⁰	61.5 ⁵	26.38 ⁸	42.8 ¹⁷
20	52.48	60.8 ⁸	51.09	35.9 ⁷	23.29	62.0 ⁷	26.46	44.5 ¹⁵
30	52.50 ²	60.0 ⁶	51.12 ³	36.6 ⁷	23.33 ⁴	62.7 ⁷	26.48 ²	46.0 ¹³
Febr. 9	52.48 ²	59.4 ⁵	51.10 ²	37.3 ⁸	23.31 ²	63.4 ⁷	26.46 ²	47.3 ¹¹
19	52.41 ⁷	58.9 ⁵	51.02 ⁸	38.1 ⁷	23.24 ⁷	64.2 ⁸	26.39 ⁷	48.4 ¹¹
März 1	52.30 ¹¹	58.6 ³	50.89 ¹³	38.8 ⁷	23.13 ¹¹	64.9 ⁷	26.29 ¹⁰	49.2 ⁸
11	52.16 ¹⁴	58.5 ¹	50.73 ¹⁶	39.5 ⁷	22.97 ¹⁶	65.6 ⁷	26.15 ¹⁴	49.8 ⁶
21	52.00 ¹⁶	58.5 ⁰	50.54 ¹⁹	40.0 ⁵	22.78 ¹⁹	66.2 ⁶	25.98 ¹⁷	50.1 ³
31	51.82 ¹⁸	58.6 ¹	50.34 ²⁰	40.4 ⁴	22.58 ²⁰	66.7 ⁵	25.81 ¹⁷	50.3 ²
April 10	51.65 ¹⁷	58.7 ¹	50.13 ²¹	40.7 ³	22.37 ²¹	67.0 ³	25.63 ¹⁸	50.3 ⁰
20	51.48 ¹⁷	58.9 ²	49.93 ²⁰	40.8 ¹	22.17 ²⁰	67.1 ¹	25.45 ¹⁸	50.0 ³
30	51.32 ¹⁶	59.2 ³	49.75 ¹⁸	40.8 ⁰	21.98 ¹⁹	67.1 ⁰	25.29 ¹⁶	49.6 ⁴
Mai 10	51.19 ¹³	59.6 ⁴	49.60 ¹⁵	40.6 ²	21.82 ¹⁶	67.1 ²	25.15 ¹⁴	49.0 ⁶
20	51.09 ¹⁰	60.1 ⁵	49.48 ¹²	40.2 ⁴	21.70 ¹²	66.6 ³	25.04 ¹¹	48.2 ⁸
30	51.02 ⁷	60.6 ⁵	49.40 ⁸	39.8 ⁴	21.62 ⁸	66.2 ⁴	24.96 ⁸	47.2 ¹⁰
Juni 9	50.99 ³	61.1 ⁵	49.36 ⁴	39.3 ⁵	21.57 ⁵	66.2 ⁶	24.91 ⁵	46.2 ¹⁰
19	50.99 ⁰	61.7 ⁶	49.37 ¹	38.7 ⁶	21.57 ⁰	65.6 ⁶	24.91 ¹	45.0 ¹²
29	51.03 ⁴	62.4 ⁷	49.41 ¹	38.0 ⁷	21.57 ³	65.0 ⁷	24.90 ²	45.0 ¹³
Juli 9	51.03 ⁸	62.4 ⁶	49.41 ⁹	38.0 ⁷	21.60 ⁸	64.3 ⁸	24.92 ⁶	43.7 ¹³
19	51.11 ¹¹	63.0 ⁷	49.50 ¹⁴	37.3 ⁸	21.68 ¹⁴	63.5 ⁸	24.98 ¹⁰	42.4 ¹⁴
29	51.23 ¹²	63.7 ⁶	49.64 ¹¹	36.5 ⁸	21.82 ¹³	62.7 ⁸	25.08 ¹²	41.0 ¹³
Aug. 8	51.37 ¹⁴	64.3 ⁶	49.81 ¹⁷	35.7 ⁸	21.82 ¹⁶	62.7 ⁸	25.20 ¹²	39.7 ¹¹
18	51.54 ¹⁷	64.9 ⁶	49.81 ²⁰	35.7 ⁸	21.98 ¹⁹	61.9 ⁸	25.20 ¹⁵	38.6 ¹⁰
28	51.54 ¹⁹	64.9 ⁴	50.01 ²³	34.9 ⁸	22.17 ²²	61.1 ⁸	25.35 ¹⁸	37.6 ⁸
Sept. 7	51.73 ²¹	65.3 ²	50.24 ²⁵	34.1 ⁸	22.39 ²⁵	60.3 ⁸	25.53 ²¹	36.8 ⁶
17	51.94 ²⁴	65.5 ¹	50.49 ²⁸	33.3 ⁷	22.64 ²⁷	59.5 ⁹	25.74 ²²	36.2 ⁶
27	52.18 ²⁶	65.6 ¹	50.77 ²⁹	32.6 ⁸	22.91 ²⁹	58.6 ⁹	25.96 ²⁵	36.2 ³
Oct. 7	52.44 ²⁷	65.5 ³	51.06 ³²	31.8 ⁸	23.20 ³¹	57.7 ⁸	26.21 ²⁵	35.9 ¹
17	52.71 ²⁷	65.2 ⁵	51.38 ³³	31.0 ⁸	23.51 ³³	56.9 ⁸	26.47 ²⁶	36.0 ⁴
27	52.99 ²⁸	64.7 ⁷	51.71 ³⁴	30.2 ⁸	23.84 ³³	56.1 ⁸	26.75 ²⁸	36.4 ⁷
Nov. 6	53.28 ²⁹	64.0 ¹⁰	52.05 ³⁴	29.4 ⁷	24.18 ³⁴	55.2 ⁹	27.03 ³⁰	37.1 ¹⁰
16	53.58 ³⁰	63.0 ¹¹	52.39 ³⁵	28.7 ⁶	24.52 ³⁵	54.5 ⁷	27.33 ²⁹	38.1 ¹³
26	53.88 ²⁹	61.9 ¹²	52.74 ³⁴	28.1 ⁵	24.87 ³⁴	53.8 ⁶	27.62 ²⁹	39.4 ¹⁶
Dec. 6	54.17 ²⁸	60.7 ¹³	53.08 ³²	27.6 ⁴	25.21 ³³	53.2 ⁴	27.91 ²⁸	41.0 ¹⁸
16	54.45 ²⁵	59.4 ¹⁴	53.40 ³⁰	27.2 ²	25.54 ³¹	52.8 ³	28.19 ²⁵	42.8 ¹⁸
26	54.70 ²³	58.0 ¹³	53.70 ²⁷	27.0 ⁰	25.85 ²⁷	52.5 ⁰	28.44 ²³	44.6 ²⁰
36	54.93 ¹⁹	56.7 ¹²	53.97 ²²	27.0 ¹	26.12 ²³	52.5 ¹	28.67 ¹⁹	46.6 ¹⁹
	55.12 ¹⁵	55.5 ¹²	54.19 ¹⁸	27.1 ³	26.35 ¹⁸	52.6 ³	28.86 ¹⁵	48.5 ¹⁹
	55.27	54.3	54.37	27.4	26.53	52.9	29.01	50.4
Mittl. Ort	50.20	73.4	48.48	47.1	20.69	73.5	24.21	31.2
	(118)		(398)		(119)		(569)	

1902	α Canis min. *) I ^m .		24 Lyncis. 5 ^m .I.		x Geminorum. 3 ^m .6.		β Geminorum. I ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	7 ^h 34 ^m	5° 28'	7 ^h 34 ^m	58° 55'	7 ^h 38 ^m	24° 37'	7 ^h 39 ^m	28° 15'
Jan. 0	12.43 ¹³	23.4 ¹³	46.55 ²³	69.4 ¹⁹	34.11 ¹⁶	47.0 ²	21.45 ¹⁶	34.5 ¹
10	12.56 ⁸	22.1 ¹²	46.78 ¹⁴	71.3 ²¹	34.27 ¹¹	46.8 [—]	21.61 ¹¹	34.6 ³
20	12.64 ⁴	20.9 ¹⁰	46.92 ¹⁴	73.4 ²¹	34.38 ⁵	46.9 ¹	21.72 ⁵	34.9 ⁴
30	12.68 ²	19.9 ⁸	46.96 ⁴	75.5 ²¹	34.43 ¹	47.1 ³	21.77 ¹	35.3 ⁵
Febr. 9	12.66 ⁶	19.1 ⁶	46.92 ¹⁴	77.6 ²⁰	34.42 ⁶	47.4 ⁴	21.76 ⁶	35.8 ⁷
19	12.60 ¹⁰	18.5 ⁵	46.78 ²¹	79.6 ¹⁸	34.36 ¹⁰	47.8 ⁵	21.70 ¹⁰	36.5 ⁶
März 1	12.50 ¹³	18.0 ³	46.57 ²⁷	81.4 ¹⁶	34.26 ¹⁴	48.3 ⁴	21.60 ¹⁵	37.1 ⁶
11	12.37 ¹⁶	17.7 ¹	46.30 ³²	83.0 ¹²	34.12 ¹⁷	48.7 ⁵	21.45 ¹⁸	37.7 ⁶
21	12.21 ¹⁸	17.6 ⁰	45.98 ³⁵	84.2 ⁸	33.95 ¹⁹	49.2 ⁴	21.27 ¹⁹	38.3 ⁴
31	12.03 ¹⁷	17.6 ¹	45.63 ³⁷	85.0 ⁴	33.76 ¹⁹	49.6 ³	21.08 ¹⁹	38.7 ⁴
April 10	11.86 ¹⁷	17.7 ²	45.26 ³⁵	85.4 ⁰	33.57 ¹⁸	49.9 ³	20.89 ²⁰	39.1 ²
20	11.69 ¹⁶	17.9 ³	44.91 ³³	85.4 ⁴	33.39 ¹⁷	50.2 ¹	20.69 ¹⁸	39.3 ¹
30	11.53 ¹³	18.2 ⁵	44.58 ³⁰	85.0 ⁷	33.22 ¹⁵	50.3 ⁰	20.51 ¹⁵	39.4 ⁰
Mai 10	11.40 ¹¹	18.7 ⁵	44.28 ²⁴	84.3 ¹²	33.07 ¹²	50.3 ⁰	20.36 ¹²	39.4 ²
20	11.29 ⁸	19.2 ⁶	44.04 ¹⁹	83.1 ¹⁵	32.95 ⁸	50.3 ¹	20.24 ⁹	39.2 ³
30	11.21 ⁴	19.8 ⁶	43.85 ¹²	81.6 ¹⁷	32.87 ⁵	50.2 ²	20.15 ⁵	38.9 ³
Juni 9	11.17 ¹	20.4 ⁷	43.73 ⁵	79.9 ¹⁹	32.82 ¹	50.0 ²	20.10 ¹	38.6 ⁴
19	11.16 ²	21.1 ⁸	43.68 ¹	78.0 ²¹	32.81 ³	49.8 ³	20.09 ²	38.2 ⁵
29	11.18 ⁶	21.9 ⁷	43.69 ⁹	75.9 ²²	32.84 ⁷	49.5 ³	20.11 ⁷	37.7 ⁵
Juli 9	11.24 ¹⁴	22.6 ⁸	43.78 ¹⁷	73.7 ²⁴	32.91 ¹⁵	49.2 ⁴	20.18 ¹⁶	37.2 ⁶
19	11.35 ¹²	23.4 ⁷	43.95 ²²	71.3 ²²	33.03 ¹⁴	48.8 ⁴	20.30 ¹⁴	36.6 ⁶
29	11.47 ¹⁵	24.1 ⁷	44.17 ²⁸	69.1 ²²	33.17 ¹⁶	48.4 ⁴	20.44 ¹⁷	36.0 ⁷
Aug. 8	11.62 ¹⁸	24.8 ⁵	44.45 ³³	66.9 ²¹	33.33 ²⁰	48.0 ⁵	20.61 ²⁰	35.3 ⁷
18	11.80 ²¹	25.3 ³	44.78 ³⁸	64.8 ¹⁹	33.53 ²³	47.5 ⁶	20.81 ²³	34.6 ⁷
28	12.01 ²²	25.6 ²	45.16 ⁴²	62.9 ¹⁸	33.76 ²⁵	46.9 ⁶	21.04 ²⁶	33.9 ⁸
Sept. 7	12.23 ²⁴	25.8 ¹	45.58 ⁴⁶	61.1 ¹⁶	34.01 ²⁷	46.3 ⁷	21.30 ²⁷	33.1 ⁸
17	12.47 ²⁶	25.7 ³	46.04 ⁴⁹	59.5 ¹⁴	34.28 ²⁸	45.6 ⁸	21.57 ³⁰	32.3 ⁹
27	12.73 ²⁸	25.4 ⁶	46.53 ⁵¹	58.1 ¹¹	34.56 ³⁰	44.8 ⁸	21.87 ³¹	31.4 ⁹
Oct. 7	13.01 ²⁹	24.8 ⁸	47.04 ⁵³	57.0 ⁹	34.86 ³²	44.0 ⁹	22.18 ³²	30.5 ⁹
17	13.30 ²⁹	24.0 ¹¹	47.57 ⁵⁴	56.1 ⁵	35.18 ³³	43.1 ⁹	22.50 ³⁴	29.6 ⁸
27	13.59 ³⁰	22.9 ¹²	48.11 ⁵⁴	55.6 ²	35.51 ³³	42.2 ⁹	22.84 ³³	28.8 ⁹
Nov. 6	13.89 ²⁹	21.7 ¹³	48.65 ⁵³	55.4 ²	35.84 ³²	41.3 ⁹	23.17 ³³	27.9 ⁸
16	14.18 ²⁸	20.4 ¹⁵	49.18 ⁵¹	55.6 ⁵	36.16 ³¹	40.4 ⁸	23.50 ³³	27.1 ⁶
26	14.46 ²⁶	18.9 ¹⁶	49.69 ⁴⁷	56.1 ⁹	36.47 ³⁰	39.6 ⁷	23.83 ³⁰	26.5 ⁵
Dec. 6	14.72 ²³	17.3 ¹⁵	50.16 ⁴¹	57.0 ¹²	36.77 ²⁶	38.9 ⁵	24.13 ²⁷	26.0 ⁴
16	14.95 ²⁰	15.8 ¹⁵	50.57 ³⁴	58.2 ¹⁵	37.03 ²²	38.4 ⁴	24.40 ²³	25.6 ²
26	15.15 ¹⁶	14.3 ¹⁴	50.91 ²⁷	59.7 ¹⁸	37.25 ¹⁸	38.0 ²	24.63 ¹⁹	25.4 ⁰
36	15.31	12.9	51.18	61.5	37.43	37.8	24.82	25.4
Mittl. Ort	10.34	34.9	43.14	83.4	31.92	59.3	19.21	47.2
	120)		399)		121)		122)	

*) Die Angaben für α Canis min. beziehen sich hier auf den Ort des sichtbaren Sterns.

1902	π Geminorum. 6 ^m .0.			Gr. 1374. 5 ^m .4.		χ Geminorum. 5 ^m .0.		27 Lyncis. 4 ^m .6.	
	AR.	Decl. +		AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	7 ^h 41 ^m	33 ^m 39'		7 ^h 48 ^m	74° 10'	7 ^h 57 ^m	28° 3'	8 ^h 1 ^m	51° 46'
Jan. 0	13.73	10.4		33.87	33.0	32.21	56.2	7.99	66.5
10	13.90	10.8		34.28	35.5	32.40	56.2	8.23	67.9
20	14.02	11.4		34.51	38.2	32.52	56.4	8.39	69.5
30	14.07	12.2		34.58	41.0	32.59	56.8	8.48	71.3
Febr. 9	14.07	13.0		34.48	43.7	32.60	57.3	8.49	73.1
19	14.00	13.9		34.22	46.3	32.56	58.0	8.42	75.0
März 1	13.89	14.8		33.82	48.6	32.47	58.6	8.29	76.7
11	13.74	15.6		33.29	50.6	32.34	59.3	8.09	78.2
21	13.56	16.3		32.66	52.2	32.18	59.9	7.85	79.6
31	13.35	16.9		31.98	53.3	32.00	60.5	7.58	80.6
April 10	13.14	17.3		31.26	53.9	31.80	61.0	7.29	81.3
20	12.94	17.5		30.54	53.9	31.61	61.3	7.00	81.6
30	12.75	17.6		29.85	53.5	31.43	61.5	6.72	81.6
Mai 10	12.59	17.4		29.22	52.5	31.27	61.6	6.47	81.2
20	12.45	17.1		28.66	51.1	31.14	61.5	6.26	80.5
30	12.35	16.7		28.21	49.2	31.04	61.4	6.09	79.5
Juni 9	12.30	16.1		27.87	47.0	30.98	61.1	5.97	78.3
19	12.29	15.4		27.66	44.6	30.95	60.7	5.90	76.8
29	12.31	14.6		27.57	41.9	30.97	60.2	5.89	75.1
Juli 9	12.38	13.8		27.61	39.1	31.02	59.7	5.93	73.3
19	12.50	12.8		27.81	35.9	31.11	59.1	6.03	71.4
29	12.65	11.9		28.11	33.0	31.24	58.4	6.20	69.2
Aug. 8	12.83	10.9		28.53	30.2	31.40	57.7	6.40	67.2
18	13.04	10.0		29.06	27.5	31.58	56.9	6.64	65.2
28	13.28	9.0		29.70	24.9	31.79	56.1	6.93	63.3
Sept. 7	13.55	8.0		30.42	22.6	32.03	55.2	7.25	61.5
17	13.84	7.0		31.22	20.6	32.29	54.3	7.61	59.8
27	14.15	6.0		32.08	18.9	32.58	53.3	8.00	58.2
Oct. 7	14.48	5.0		33.00	17.5	32.88	52.2	8.42	56.8
17	14.82	4.1		33.95	16.5	33.20	51.2	8.86	55.6
27	15.18	3.2		34.92	15.9	33.54	50.1	9.32	54.6
Nov. 6	15.53	2.4		35.90	15.8	33.88	49.1	9.78	53.9
16	15.88	1.8		36.85	16.2	34.21	48.2	10.24	53.5
26	16.22	1.3		37.75	17.1	34.54	47.4	10.69	53.5
Dec. 6	16.54	1.0		38.59	18.3	34.86	46.7	11.12	53.8
16	16.82	1.0		39.34	20.0	35.14	46.2	11.50	54.4
26	17.07	1.1		39.96	22.1	35.39	46.0	11.83	55.4
36	17.27	1.4		40.44	24.5	35.60	45.9	12.11	56.7
Mittl. Ort	11.40	23.6		28.23	48.4	30.04	69.6	5.20	82.1
	400)			401)		404)		405)	

1902	♄ Navis. 3 ^m .O.		♃ Br. 1147. 5 ^m .I.		♆ 20 Navis. 6 ^m .O.		♋ β Cancri. 3 ^m .6.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.	AR.	Decl.
	8 ^h 3 ^m	24° 1'	8 ^h 7 ^m	76° 2'	8 ^h 8 ^m	15° 29'	8 ^h 11 ^m	9° 28'
Jan. 0	24.27 ¹⁵	25.2 ²⁹	20.39 ⁵¹	66.0 ²⁵	51.72 ¹⁵	43.2 ²⁶	14.04 ¹⁷	64.3 ¹²
10	24.42 ¹⁰	28.1 ²⁸	20.90 ³³	68.5 ²⁷	51.87 ¹¹	45.8 ²⁴	14.21 ¹²	63.1 ¹⁰
20	24.52 ⁵	30.9 ²⁶	21.23 ¹⁴	71.2 ²⁸	51.98 ⁵	48.2 ²²	14.33 ⁸	62.1 ⁸
30	24.57 ¹	33.5 ²⁴	21.37 ⁵	74.0 ²⁸	52.03 ¹	50.4 ²⁰	14.41 ²	61.3 ⁶
Febr. 9	24.56 ⁵	35.9 ²²	21.32 ²⁴	76.8 ²⁸	52.04 ⁴	52.4 ¹⁷	14.43 ²	60.7 ⁴
19	24.51 ¹⁰	38.1 ¹⁸	21.08 ⁴⁰	79.6 ²⁵	52.00 ⁹	54.1 ¹⁵	14.41 ⁷	60.3 ²
März 1	24.41 ¹⁴	39.9 ¹⁵	20.68 ⁵⁵	82.1 ²²	51.91 ¹²	55.6 ¹²	14.34 ¹¹	60.1 ¹
11	24.27 ¹⁷	41.4 ¹¹	20.13 ⁶⁷	84.3 ¹⁸	51.79 ¹⁵	56.8 ⁹	14.23 ¹⁴	60.0 ¹
21	24.10 ¹⁹	42.5 ⁷	19.46 ⁷⁵	85.1 ¹³	51.64 ¹⁷	57.7 ⁵	14.09 ¹⁶	60.1 ¹
31	23.91 ²⁰	43.2 ⁴	18.71 ⁸¹	87.4 ⁹	51.47 ¹⁹	58.2 ³	13.93 ¹⁷	60.2 ²
April 10	23.71 ²⁰	43.6 ⁰	17.90 ⁸²	88.3 ³	51.28 ¹⁸	58.5 ¹	13.76 ¹⁶	60.4 ³
20	23.51 ¹⁹	43.6 ³	17.08 ⁸⁰	88.6 ⁸	51.10 ¹⁷	58.4 ³	13.60 ¹⁶	60.7 ⁴
30	23.32 ¹⁸	43.3 ⁷	16.28 ⁷⁵	88.3 ⁸	50.93 ¹⁶	58.1 ⁶	13.44 ¹⁵	61.1 ⁴
Mai 10	23.14 ¹⁵	42.6 ¹⁰	15.53 ⁶⁸	87.5 ¹³	50.77 ¹³	57.5 ⁹	13.29 ¹²	61.5 ⁴
20	22.99 ¹³	41.6 ¹³	14.85 ⁵⁷	86.2 ¹⁷	50.64 ¹¹	56.6 ¹¹	13.17 ⁹	61.9 ⁵
30	22.86 ⁹	40.3 ¹⁶	14.28 ⁴⁶	84.5 ²¹	50.53 ⁸	55.5 ¹³	13.08 ⁷	62.4 ⁵
Juni 9	22.77 ⁶	38.7 ¹⁸	13.82 ³²	82.4 ²⁴	50.45 ⁵	54.2 ¹⁵	13.01 ⁴	62.9 ⁵
19	22.71 ³	36.9 ²⁰	13.50 ¹⁸	80.0 ²⁶	50.40 ²	52.7 ¹⁷	12.97 ⁰	63.4 ⁵
29	22.68 ¹	34.9 ²¹	13.32 ⁴	77.4 ²⁹	50.38 ¹	51.0 ¹⁷	12.97 ³	63.9 ⁵
Juli 9	22.69 ⁵	32.8 ²¹	13.28 ¹¹	74.5 ³⁰	50.39 ⁵	49.3 ¹⁸	13.00 ⁷	64.4 ⁴
19	22.74 ⁹	30.7 ²⁴	13.39 ²⁸	71.5 ³³	50.44 ⁹	47.5 ¹⁹	13.07 ¹⁰	64.8 ⁵
29	22.83 ¹²	28.3 ²¹	13.67 ⁴⁰	68.2 ³⁰	50.53 ¹¹	45.6 ¹⁷	13.17 ¹²	65.3 ³
Aug. 8	22.95 ¹⁵	26.2 ¹⁹	14.07 ⁵²	65.2 ²⁹	50.64 ¹⁵	43.9 ¹⁷	13.29 ¹⁵	65.6 ²
18	23.10 ¹⁹	24.3 ¹⁷	14.59 ⁶⁴	62.3 ²⁷	50.79 ¹⁷	42.4 ¹³	13.44 ¹⁸	65.8 ¹
28	23.29 ²¹	22.6 ¹⁴	15.23 ⁷⁵	59.6 ²⁶	50.96 ¹⁹	41.1 ¹¹	13.62 ²⁰	65.9 ¹
Sept. 7	23.50 ²³	21.2 ¹⁰	15.98 ⁸⁵	57.0 ²³	51.15 ²²	40.0 ⁷	13.82 ²³	65.8 ³
17	23.73 ²⁶	20.2 ⁶	16.83 ⁹³	54.7 ²⁰	51.37 ²⁵	39.3 ³	14.05 ²⁵	65.5 ⁵
27	23.99 ²⁷	19.6 ¹	17.76 ¹⁰⁰	52.7 ¹⁶	51.62 ²⁷	39.0 ¹	14.30 ²⁶	65.0 ⁷
Oct. 7	24.26 ²⁹	19.5 ⁴	18.76 ¹⁰⁵	51.1 ¹³	51.89 ²⁸	39.1 ⁵	14.56 ²⁹	64.3 ⁹
17	24.55 ³⁰	19.9 ⁹	19.81 ¹⁰⁹	49.8 ⁸	52.17 ²⁹	39.6 ⁹	14.85 ³⁰	63.4 ¹¹
27	24.85 ³¹	20.8 ¹⁴	20.90 ¹⁰⁹	49.0 ⁴	52.46 ³¹	40.5 ¹⁴	15.15 ³⁰	62.3 ¹³
Nov. 6	25.16 ³⁰	22.2 ¹⁸	21.99 ¹⁰⁹	48.6 ¹	52.77 ³⁰	41.9 ¹⁷	15.45 ³¹	61.0 ¹⁴
16	25.46 ³⁰	24.0 ²²	23.08 ¹⁰³	48.7 ⁶	53.07 ³⁰	43.6 ²⁰	15.76 ³⁰	59.6 ¹⁵
26	25.76 ²⁷	26.2 ²⁵	24.11 ⁹⁷	49.3 ¹¹	53.37 ²⁷	45.6 ²³	16.06 ²⁹	58.1 ¹⁵
Dec. 6	26.03 ²⁵	28.7 ²⁷	25.08 ⁸⁸	50.4 ¹⁶	53.64 ²⁵	47.9 ²⁵	16.35 ²⁶	56.6 ¹⁴
16	26.28 ²²	31.4 ²⁹	25.96 ⁷⁵	52.0 ²⁰	53.89 ²²	50.4 ²⁵	16.61 ²³	55.2 ¹⁴
26	26.50 ¹⁷	34.3 ²⁹	26.71 ⁶⁰	54.0 ²³	54.11 ¹⁸	52.9 ²⁵	16.84 ²⁰	53.8 ¹²
36	26.67	37.2	27.31	56.3	54.29	55.4	17.04	52.6
Mittl. Ort	22.19	18.2	14.46	82.9	49.70	35.2	12.06	75.9
	570)		406)		571)		123)	

1902	31 Lyneis. 5 ^m .0.		Br. 1197. 3 ^m .6.		o Ursae maj. 3 ^m .3.		Gr. 1450. 6 ^m .4.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	8 ^h 16 ^m	43 ^o 29'	8 ^h 20 ^m	3 ^o 35'	8 ^h 22 ^m	61 ^o 2'	8 ^h 26 ^m	38 ^o 20'
Jan. 0	10.23 ²³	53.7 ⁸	47.74 ¹⁸	20.7 ²⁰	10.77 ³²	28.1 ¹⁸	34.93 ²⁴	52.4 ⁵
10	10.46 ¹⁷	54.5 ¹¹	47.92 ¹²	22.7 ¹⁸	11.09 ²³	29.9 ²⁰	35.17 ¹⁷	52.9 ⁷
20	10.63 ¹⁰	55.6 ¹³	48.04 ⁸	24.5 ¹⁶	11.32 ¹⁴	31.9 ²²	35.34 ¹⁰	53.6 ⁹
30	10.73	56.9 ¹⁴	48.12 ²	26.1 ¹⁴	11.46 ³	34.1 ²³	35.44 ⁵	54.5 ¹²
Febr. 9	10.77 ⁴	58.3 ¹⁵	48.14 ²	27.5 ¹¹	11.49 ⁶	36.4 ²³	35.49 ¹	55.7 ¹²
19	10.74 ¹⁰	59.8 ¹⁴	48.12 ⁷	28.6 ⁹	11.43 ¹⁵	38.7 ²¹	35.48 ⁸	56.9 ¹³
März 1	10.64 ¹⁵	61.2 ¹⁴	48.05 ¹⁰	29.5 ⁷	11.28 ²³	40.8 ²⁰	35.40 ¹²	58.2 ¹²
11	10.49 ¹⁹	62.6 ¹²	47.95 ¹³	30.2 ⁵	11.05 ²⁹	42.8 ¹⁸	35.28 ¹⁶	59.4 ¹¹
21	10.30 ²¹	63.8 ¹⁰	47.82 ¹⁶	30.7 ³	10.76 ³⁴	44.6 ¹³	35.12 ²⁰	60.5 ¹⁰
31	10.09 ²³	64.8 ⁸	47.66 ¹⁷	31.0 ⁰	10.42 ³⁷	45.9 ¹⁰	34.92 ²¹	61.5 ⁸
April 10	9.86 ²⁴	65.6 ⁵	47.49 ¹⁶	31.0 ²	10.05 ³⁸	46.9 ⁵	34.71 ²¹	62.3 ⁶
20	9.62 ²³	66.1 ²	47.33 ¹⁶	30.8 ⁴	9.67 ³⁷	47.4 ¹	34.50 ²¹	62.9 ³
30	9.39 ²¹	66.3 ¹	47.17 ¹⁵	30.4 ⁵	9.30 ³⁵	47.5 ³	34.29 ²⁰	63.2 ¹
Mai 10	9.18 ¹⁹	66.2 ³	47.02 ¹³	29.9 ⁶	8.95 ³¹	47.2 ⁷	34.09 ¹⁷	63.3 ²
20	8.99 ¹⁴	65.9 ⁶	46.89 ¹⁰	29.3 ⁸	8.64 ²⁷	46.5 ¹¹	33.92 ¹⁴	63.1 ⁴
30	8.85 ¹¹	65.3 ⁹	46.79 ⁷	28.5 ⁹	8.37 ²⁰	45.4 ¹⁵	33.78 ¹⁰	62.7 ⁶
Juni 9	8.74 ⁶	64.4 ¹¹	46.72 ⁵	27.6 ¹⁰	8.17 ¹⁴	43.9 ¹⁸	33.68 ⁶	62.1 ⁸
19	8.68 ²	63.3 ¹²	46.67 ¹	26.6 ¹¹	8.03 ⁸	42.1 ²⁰	33.62 ²	61.3 ⁹
29	8.66 ³	62.1 ¹⁴	46.66 ¹	25.5 ¹²	7.95 ⁰	40.1 ²²	33.60 ¹	60.4 ¹¹
Juli 9	8.69 ⁷	60.7 ¹⁵	46.67 ⁴	24.3 ¹²	7.95 ⁶	37.9 ²⁴	33.61 ⁶	59.3 ¹³
19	8.76 ¹³	59.2 ¹⁷	46.71 ⁹	23.1 ¹²	8.01 ¹⁴	35.5 ²⁷	33.67 ¹¹	58.0 ¹⁴
29	8.89 ¹⁶	57.5 ¹⁶	46.80 ¹¹	21.9 ¹¹	8.15 ²⁰	32.8 ²⁵	33.78 ¹⁴	56.6 ¹⁴
Aug. 8	9.05 ¹⁹	55.9 ¹⁷	46.91 ¹³	20.8 ⁹	8.35 ²⁶	30.3 ²⁵	33.92 ¹⁷	55.2 ¹⁵
18	9.24 ²³	54.2 ¹⁷	47.04 ¹⁶	19.9 ⁷	8.61 ³²	27.8 ²⁵	34.09 ²⁰	53.7 ¹⁵
28	9.47 ²⁷	52.5 ¹⁷	47.20 ¹⁹	19.2 ⁵	8.93 ³⁷	25.3 ²³	34.29 ²⁴	52.2 ¹⁵
Sept. 7	9.74 ³⁰	50.8 ¹⁶	47.39 ²¹	18.7 ²	9.30 ⁴²	23.0 ²²	34.53 ²⁷	50.7 ¹⁵
17	10.04 ³²	49.2 ¹⁵	47.60 ²⁴	18.5 ¹	9.72 ⁴⁶	20.8 ²⁰	34.80 ²⁹	49.2 ¹⁵
27	10.36 ³⁶	47.7 ¹⁵	47.84 ²⁶	18.6 ⁴	10.18 ⁵⁰	18.8 ¹⁸	35.09 ³²	47.7 ¹⁵
Oct. 7	10.72 ³⁸	46.2 ¹³	48.10 ²⁷	19.0 ⁷	10.68 ⁵⁴	17.0 ¹⁵	35.41 ³⁵	46.2 ¹⁴
17	11.10 ³⁹	44.9 ¹²	48.37 ²⁹	19.7 ¹⁰	11.22 ⁵⁶	15.5 ¹²	35.76 ³⁶	44.8 ¹³
27	11.49 ⁴⁰	43.7 ¹⁰	48.66 ³⁰	20.7 ¹⁴	11.78 ⁵⁸	14.3 ⁸	36.12 ³⁷	43.5 ¹²
Nov. 6	11.89 ⁴⁰	42.7 ⁸	48.96 ³⁰	22.1 ¹⁶	12.36 ⁵⁷	13.5 ⁴	36.49 ³⁸	42.3 ¹⁰
16	12.29 ⁴⁰	41.9 ⁵	49.26 ³⁰	23.7 ¹⁸	12.93 ⁵⁷	13.1 ¹	36.87 ³⁸	41.3 ⁷
26	12.69 ³⁸	41.4 ²	49.56 ²⁸	25.5 ¹⁹	13.50 ⁵⁴	13.0 ⁴	37.25 ³⁶	40.6 ⁵
Dec. 6	13.07 ³⁶	41.2 ¹	49.84 ²⁶	27.4 ²⁰	14.04 ⁴⁹	13.4 ⁸	37.61 ³⁴	40.1 ²
16	13.43 ³¹	41.3 ⁵	50.10 ²³	29.4 ²⁰	14.53 ⁴⁴	14.2 ¹³	37.95 ³⁰	39.9 ⁰
26	13.74 ²⁶	41.8 ⁷	50.33 ¹⁹	31.4 ²⁰	14.97 ³⁶	15.5 ¹⁵	38.25 ²⁶	39.9 ⁴
36	14.00	42.5	50.52	33.4	15.33	17.0	38.51	40.3
Mittl. Ort	7.83	69.5	45.80	11.1	7.60	45.7	32.72	68.2
	407)		124)		125)		408)	

1902	γ Cancri. 5 ^m .8.		δ Cancri. 4 ^m .0.		ε Cancri. 4 ^m .1.		ζ Hydrae. 3 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	8 ^h 27 ^m	20° 46'	8 ^h 39 ^m	18° 30'	8 ^h 40 ^m	29° 6'	8 ^h 50 ^m	6° 18'
Jan. 0	4.56 ²⁰	13.9 6	8.92 ²¹	39.6 8	48.15 ²²	52.1 1	14.70 ²¹	56.0 15
10	4.76 ¹⁵	13.3 4	9.13 ¹⁶	38.8 5	48.37 ¹⁷	52.0 -1	14.91 ¹⁵	54.5 13
20	4.91 ¹⁰	12.9 1	9.29 ¹⁰	38.3 3	48.54 ¹²	52.1 4	15.06 ¹¹	53.2 11
30	5.01 ⁴	12.8 -1	9.39 ⁶	38.0 1	48.66 ⁷	52.5 5	15.17 ⁶	52.1 8
Febr. 9	5.05 ¹	12.9 2	9.45 ⁰	37.9 -1	48.73 ⁰	53.0 7	15.23 ¹	51.3 7
19	5.04 ⁵	13.1 3	9.45 ⁵	38.0 2	48.73 ⁵	53.7 9	15.24 ³	50.6 4
März 1	4.99 ¹⁰	13.4 5	9.40 ⁹	38.2 4	48.68 ¹⁰	54.6 9	15.21 ⁸	50.2 2
11	4.89 ¹⁴	13.9 5	9.31 ¹²	38.6 5	48.58 ¹³	55.5 9	15.13 ¹¹	50.0 1
21	4.75 ¹⁶	14.4 5	9.19 ¹⁵	39.1 4	48.45 ¹⁶	56.4 8	15.02 ¹⁴	49.9 -1
31	4.59 ¹⁷	14.9 5	9.04 ¹⁶	39.5 5	48.29 ¹⁸	57.2 7	14.88 ¹⁵	50.0 2
April 10	4.42 ¹⁷	15.4 5	8.88 ¹⁷	40.0 5	48.11 ¹⁹	57.9 6	14.73 ¹⁵	50.2 3
20	4.25 ¹⁷	15.9 4	8.71 ¹⁶	40.5 4	47.92 ¹⁸	58.5 4	14.58 ¹⁶	50.5 4
30	4.08 ¹⁶	16.3 3	8.55 ¹⁶	40.9 4	47.74 ¹⁷	58.9 3	14.42 ¹⁵	50.9 4
Mai 10	3.92 ¹³	16.6 2	8.39 ¹³	41.3 3	47.57 ¹⁵	59.2 2	14.27 ¹³	51.3 5
20	3.79 ¹¹	16.8 2	8.26 ¹¹	41.6 3	47.42 ¹²	59.4 0	14.14 ¹¹	51.8 5
30	3.68 ⁸	17.0 1	8.15 ⁹	41.9 2	47.30 ¹⁰	59.4 2	14.03 ⁹	52.3 6
Juni 9	3.60 ⁴	17.1 0	8.06 ⁵	42.1 1	47.20 ⁶	59.2 3	13.94 ⁶	52.9 7
19	3.56 ²	17.1 1	8.01 ³	42.2 0	47.14 ³	58.9 5	13.88 ³	53.6 6
29	3.54 ²	17.0 1	7.98 ¹	42.2 0	47.11 ¹	58.4 6	13.85 ⁰	54.2 6
Juli 9	3.56 ⁶	16.9 2	7.99 ⁴	42.2 1	47.12 ⁴	57.8 7	13.85 ²	54.8 6
19	3.62 ⁹	16.7 3	8.03 ⁷	42.1 2	47.16 ⁷	57.1 8	13.87 ⁶	55.4 5
29	3.71 ¹²	16.4 4	8.10 ¹¹	41.9 3	47.23 ¹²	56.3 10	13.93 ⁹	55.9 4
Aug. 8	3.83 ¹⁵	16.0 5	8.21 ¹⁴	41.6 4	47.35 ¹⁴	55.3 10	14.02 ¹¹	56.3 3
18	3.98 ¹⁷	15.5 6	8.35 ¹⁶	41.2 5	47.49 ¹⁷	54.3 11	14.13 ¹⁴	56.6 2
28	4.15 ²⁰	14.9 7	8.51 ¹⁸	40.7 7	47.66 ²⁰	53.2 12	14.27 ¹⁷	56.8 -1
Sept. 7	4.35 ²³	14.2 8	8.69 ²²	40.0 8	47.86 ²³	52.0 12	14.44 ¹⁹	56.7 2
17	4.58 ²⁵	13.4 9	8.91 ²⁴	39.2 9	48.09 ²⁶	50.8 13	14.63 ²²	56.5 5
27	4.83 ²⁷	12.5 11	9.15 ²⁶	38.3 11	48.35 ²⁸	49.5 14	14.85 ²⁵	56.0 7
Oct. 7	5.10 ³⁰	11.4 11	9.41 ²⁹	37.2 12	48.63 ³¹	48.1 14	15.10 ²⁷	55.3 10
17	5.40 ³¹	10.3 13	9.70 ³⁰	36.0 13	48.94 ³³	46.7 14	15.37 ²⁹	54.3 12
27	5.71 ³²	9.0 13	10.00 ³²	34.7 14	49.27 ³⁴	45.3 14	15.66 ³⁰	53.1 14
Nov. 6	6.03 ³³	7.7 13	10.32 ³²	33.3 14	49.61 ³⁵	43.9 13	15.96 ³¹	51.7 16
16	6.36 ³²	6.4 12	10.64 ³³	31.9 14	49.96 ³⁴	42.6 11	16.27 ³¹	50.1 17
26	6.68 ³¹	5.2 12	10.97 ³¹	30.5 13	50.30 ³⁴	41.5 9	16.58 ³⁰	48.4 17
Dec. 6	6.99 ²⁹	4.0 10	11.28 ²⁹	29.2 12	50.64 ³²	40.6 8	16.88 ²⁸	46.7 17
16	7.28 ²⁶	3.0 9	11.57 ²⁷	28.0 10	50.96 ²⁹	39.8 5	17.16 ²⁶	45.0 16
26	7.54 ²²	2.1 7	11.84 ²³	27.0 8	51.25 ²⁴	39.3 2	17.42 ²³	43.4 16
36	7.76	1.4	12.07	26.2	51.49	39.1	17.65	41.8
Mittl. Ort	2.58	27.3	6.99	53.0	46.14	67.2	12.85	67.3
	(409)		(126)		(127)		(129)	

1902	ι Ursae maj. 3 ^m .o.		α Cancr. 4 ^m .o.		ιO Ursae maj, 4 ^m .o.		ζ Ursae maj. 3 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	8 ^h 52 ^m	48° 25'	8 ^h 53 ^m	12° 13'	8 ^h 54 ^m	42° 9'	8 ^h 56 ^m	47° 32'
Jan. 0	32.40 ²⁹	17.5 ⁸	9.52 ²¹	61.7 ¹²	18.97 ²⁷	57.6 ⁵	58.53 ²⁹	20.7 ⁸
10	32.69 ²²	18.3 ¹²	9.73 ¹⁷	60.5 ⁹	19.24 ²²	58.1 ⁸	58.82 ²⁴	21.5 ¹¹
20	32.91 ¹⁶	19.5 ¹⁵	9.90 ¹²	59.6 ⁷	19.46 ¹⁴	58.9 ¹²	59.06 ¹⁶	22.6 ¹⁵
30	33.07 ⁹	21.0 ¹⁶	10.02 ⁶	58.9 ⁵	19.60 ⁸	60.1 ¹³	59.22 ⁹	24.1 ¹⁶
Febr. 9	33.16 ¹	22.6 ¹⁹	10.08 ¹	58.4 ³	19.68 ²	61.4 ¹⁴	59.31 ²	25.7 ¹⁷
19	33.17 ⁷	24.5 ¹⁸	10.09 ³	58.1 ¹	19.70 ⁵	62.8 ¹⁵	59.33 ⁵	27.4 ¹⁸
März 1	33.10 ¹²	26.3 ¹⁷	10.06 ⁷	58.0 ¹	19.65 ¹⁰	64.3 ¹⁵	59.28 ¹²	29.2 ¹⁷
11	32.98 ¹⁷	28.0 ¹⁷	9.99 ¹¹	58.1 ²	19.55 ¹⁵	65.8 ¹⁵	59.16 ¹⁶	30.9 ¹⁷
21	32.81 ²²	29.7 ¹⁴	9.88 ¹⁴	58.3 ³	19.40 ¹⁹	67.3 ¹³	59.00 ²¹	32.6 ¹⁴
31	32.59 ²⁴	31.1 ¹¹	9.74 ¹⁵	58.6 ³	19.21 ²¹	68.6 ¹¹	58.79 ²³	34.0 ¹²
April 10	32.35 ²⁶	32.2 ⁹	9.59 ¹⁶	58.9 ⁵	19.00 ²²	69.7 ⁸	58.56 ²⁵	35.2 ⁹
20	32.09 ²⁵	33.1 ⁵	9.43 ¹⁶	59.4 ⁴	18.78 ²³	70.5 ⁵	58.31 ²⁵	36.1 ⁶
30	31.84 ²⁴	33.6 ²	9.27 ¹⁵	59.8 ⁵	18.55 ²¹	71.0 ³	58.06 ²⁴	36.7 ²
Mai 10	31.60 ²³	33.8 ²	9.12 ¹³	60.3 ⁴	18.34 ¹⁹	71.3 ⁰	57.82 ²²	36.9 ¹
20	31.37 ¹⁹	33.6 ⁵	8.99 ¹¹	60.7 ⁴	18.15 ¹⁷	71.3 ³	57.60 ¹⁹	36.8 ⁴
30	31.18 ¹⁶	33.1 ⁷	8.88 ⁹	61.1 ⁴	17.98 ¹³	71.0 ⁶	57.41 ¹⁵	36.4 ⁸
Juni 9	31.02 ¹²	32.4 ¹¹	8.79 ⁶	61.5 ⁴	17.85 ¹⁰	70.4 ⁸	57.26 ¹²	35.6 ¹⁰
19	30.90 ⁷	31.3 ¹⁴	8.73 ⁴	61.9 ⁴	17.75 ⁶	69.6 ¹¹	57.14 ⁸	34.6 ¹²
29	30.83 ²	29.9 ¹⁵	8.69 ⁰	62.3 ³	17.69 ²	68.5 ¹²	57.06 ³	33.4 ¹⁵
Juli 9	30.81 ²	28.4 ¹⁸	8.69 ³	62.6 ²	17.67 ²	67.3 ¹⁴	57.03 ²	31.9 ¹⁷
19	30.83 ⁶	26.6 ¹⁹	8.72 ⁵	62.8 ²	17.69 ⁶	65.9 ¹⁶	57.05 ⁶	30.2 ¹⁸
29	30.89 ¹²	24.7 ²²	8.77 ⁹	63.0 ¹	17.75 ¹²	64.3 ¹⁸	57.11 ¹¹	28.4 ²²
Aug. 8	31.01 ¹⁶	22.5 ²¹	8.86 ¹¹	63.1 ¹	17.87 ¹⁴	62.5 ¹⁸	57.22 ¹⁵	26.2 ²⁰
18	31.17 ²⁰	20.4 ²¹	8.97 ¹⁵	63.0 ²	18.01 ¹⁷	60.7 ¹⁸	57.37 ¹⁹	24.2 ²¹
28	31.37 ²⁴	18.3 ²¹	9.12 ¹⁷	62.8 ⁴	18.18 ²²	58.9 ¹⁹	57.56 ²³	22.1 ²¹
Sept. 7	31.61 ²⁸	16.2 ²¹	9.29 ¹⁹	62.4 ⁵	18.40 ²⁵	57.0 ¹⁹	57.79 ²⁷	20.0 ²¹
17	31.89 ³¹	14.1 ²⁰	9.48 ²³	61.9 ⁸	18.65 ²⁹	55.1 ¹⁹	58.06 ³¹	17.9 ²¹
27	32.20 ³⁵	12.1 ²⁰	9.71 ²⁵	61.1 ⁹	18.94 ³¹	53.2 ¹⁸	58.37 ³⁴	15.8 ²⁰
Oct. 7	32.55 ³⁹	10.1 ¹⁸	9.96 ²⁷	60.2 ¹¹	19.25 ³⁵	51.4 ¹⁷	58.71 ³⁷	13.8 ¹⁸
17	32.94 ⁴¹	8.3 ¹⁶	10.23 ²⁹	59.1 ¹³	19.60 ³⁷	49.7 ¹⁶	59.08 ⁴¹	12.0 ¹⁷
27	33.35 ⁴²	6.7 ¹³	10.52 ³⁰	57.8 ¹⁵	19.97 ³⁹	48.1 ¹⁵	59.49 ⁴²	10.3 ¹⁴
Nov. 6	33.77 ⁴⁴	5.4 ¹¹	10.82 ³²	56.3 ¹⁵	20.36 ³⁹	46.6 ¹²	59.91 ⁴³	8.9 ¹¹
16	34.21 ⁴³	4.3 ⁸	11.14 ³²	54.8 ¹⁶	20.75 ⁴⁰	45.4 ¹⁰	60.34 ⁴³	7.8 ⁹
26	34.64 ⁴³	3.5 ⁴	11.46 ³¹	53.2 ¹⁵	21.15 ⁴⁰	44.4 ⁶	60.77 ⁴³	6.9 ⁵
Dec. 6	35.07 ⁴¹	3.1 ¹	11.77 ²⁹	51.7 ¹⁵	21.55 ³⁷	43.8 ³	61.20 ⁴⁰	6.4 ¹
16	35.48 ³⁷	3.0 ⁴	12.06 ²⁷	50.2 ¹⁴	21.92 ³⁴	43.5 ⁰	61.60 ³⁷	6.3 ³
26	35.85 ³²	3.4 ⁷	12.33 ²³	48.8 ¹³	22.26 ²⁹	43.5 ⁴	61.97 ³²	6.6 ⁶
36	36.17	4.1	12.56	47.5	22.55	43.9	62.29	7.2
Mittl. Ort	30.11	35.7	7.67	74.2	16.85	75.1	56.30	39.0
	130)		131)		132)		133)	

1902	♄ Ursae maj. 5 ^m .o.		♃ Hydrae. 4 ^m .o.		♋ Cancr. 5 ^m .8.		♌ Lyncis. 3 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	9 ^h 1 ^m	67° 31'	9 ^h 9 ^m	2° 43'	9 ^h 13 ^m	18° 6'	9 ^h 15 ^m	34° 47'
Jan. 0	49.99 ⁴⁷	37.4 ¹⁷	17.75 ²¹	29.6 ¹⁷	32.56 ²⁴	61.1 ⁹	7.04 ²⁷	68.5 ⁰
10	50.46 ³⁷	39.1 ²¹	17.96 ¹⁸	27.9 ¹⁶	32.80 ¹⁹	60.2 ⁷	7.31 ²²	68.5 ⁴
20	50.83 ²⁴	41.2 ²³	18.14 ¹³	26.3 ¹³	32.99 ¹⁴	59.5 ⁴	7.53 ¹⁷	68.9 ⁶
30	51.07 ¹³	43.5 ²⁶	18.27 ⁷	25.0 ¹¹	33.13 ⁹	59.1 ¹	7.70 ¹⁰	69.5 ⁸
Febr. 9	51.20 ⁰	46.1 ²⁵	18.34 ³	23.9 ⁹	33.22 ⁴	59.0 ⁰	7.80 ⁴	70.3 ¹¹
19	51.20 ¹¹	48.6 ²⁶	18.37 ²	23.0 ⁷	33.26 ¹	59.0 ²	7.84 ²	71.4 ¹²
März 1	51.09 ²²	51.2 ²⁵	18.35 ⁶	22.3 ⁴	33.25 ⁶	59.2 ⁴	7.82 ⁷	72.6 ¹²
11	50.87 ³²	53.7 ²²	18.29 ¹⁰	21.9 ³	33.19 ¹⁰	59.6 ⁵	7.75 ¹¹	73.8 ¹³
21	50.55 ³⁹	55.9 ¹⁹	18.19 ¹²	21.6 ⁰	33.09 ¹²	60.1 ⁶	7.64 ¹⁵	75.1 ¹²
31	50.16 ⁴⁴	57.8 ¹⁴	18.07 ¹⁴	21.6 ¹	32.97 ¹⁵	60.7 ⁶	7.49 ¹⁷	76.3 ¹¹
April 10	49.72 ⁴⁷	59.2 ¹¹	17.93 ¹⁵	21.7 ²	32.82 ¹⁶	61.3 ⁶	7.32 ¹⁹	77.4 ⁹
20	49.25 ⁴⁹	60.3 ⁵	17.78 ¹⁵	21.9 ³	32.66 ¹⁶	61.9 ⁶	7.13 ¹⁹	78.3 ⁷
30	48.76 ⁴⁷	60.8 ¹	17.63 ¹⁴	22.2 ⁵	32.50 ¹⁵	62.5 ⁵	6.94 ¹⁹	79.0 ⁵
Mai 10	48.29 ⁴⁴	60.9 ⁵	17.49 ¹³	22.7 ⁵	32.35 ¹⁴	63.0 ⁴	6.75 ¹⁷	79.5 ²
20	47.85 ⁴⁰	60.4 ⁹	17.36 ¹²	23.2 ⁶	32.21 ¹²	63.4 ⁴	6.58 ¹⁵	79.7 ¹
30	47.45 ³⁵	59.5 ¹³	17.24 ¹⁰	23.8 ⁷	32.09 ¹⁰	63.8 ³	6.43 ¹³	79.8 ²
Juni 9	47.10 ²⁸	58.2 ¹⁷	17.14 ⁷	24.5 ⁷	31.99 ⁸	64.1 ¹	6.30 ¹⁰	79.6 ⁴
19	46.82 ²⁰	56.5 ²¹	17.07 ⁴	25.2 ⁷	31.91 ⁵	64.2 ¹	6.20 ⁶	79.2 ⁷
29	46.62 ¹³	54.4 ²⁴	17.03 ²	25.9 ⁷	31.86 ²	64.3 ⁰	6.14 ⁴	78.5 ⁸
Juli 9	46.49 ⁴	52.0 ²⁶	17.01 ¹	26.6 ⁷	31.84 ¹	64.3 ¹	6.10 ⁰	77.7 ¹⁰
19	46.45 ⁵	49.4 ²⁷	17.02 ³	27.3 ⁷	31.85 ³	64.2 ²	6.10 ⁴	76.7 ¹¹
29	46.50 ¹⁴	46.7 ³²	17.05 ⁷	28.0 ⁷	31.88 ⁷	64.0 ³	6.14 ⁷	75.6 ¹³
Aug. 8	46.64 ²¹	43.5 ²⁹	17.12 ⁹	28.7 ⁴	31.95 ¹⁰	63.7 ⁵	6.21 ¹²	74.3 ¹⁵
18	46.85 ²⁹	40.6 ²⁹	17.21 ¹²	29.1 ³	32.05 ¹³	63.2 ⁶	6.33 ¹⁴	72.8 ¹⁶
28	47.14 ³⁷	37.7 ²⁹	17.33 ¹⁵	29.4 ¹	32.18 ¹⁵	62.6 ⁷	6.47 ¹⁷	71.2 ¹⁶
Sept. 7	47.51 ⁴³	34.8 ²⁷	17.48 ¹⁸	29.5 ¹	32.33 ¹⁹	61.9 ⁹	6.64 ²¹	69.6 ¹⁷
17	47.94 ⁵¹	32.1 ²⁶	17.66 ²¹	29.4 ⁴	32.52 ²¹	61.0 ¹¹	6.85 ²⁴	67.9 ¹⁸
27	48.45 ⁵⁶	29.5 ²³	17.87 ²³	29.0 ⁶	32.73 ²⁴	59.9 ¹²	7.09 ²⁷	66.1 ¹⁸
Oct. 7	49.01 ⁶¹	27.2 ²⁰	18.10 ²⁵	28.4 ⁹	32.97 ²⁷	58.7 ¹⁴	7.36 ³⁰	64.3 ¹⁷
17	49.62 ⁶⁶	25.2 ¹⁷	18.35 ²⁸	27.5 ¹²	33.24 ²⁹	57.3 ¹⁴	7.66 ³³	62.6 ¹⁸
27	50.28 ⁶⁹	23.5 ¹⁴	18.63 ³⁰	26.3 ¹⁴	33.53 ³¹	55.9 ¹⁶	7.99 ³⁵	60.8 ¹⁶
Nov. 6	50.97 ⁷¹	22.1 ⁹	18.93 ³¹	24.9 ¹⁶	33.84 ³²	54.3 ¹⁶	8.34 ³⁷	59.2 ¹⁵
16	51.68 ⁷¹	21.2 ⁴	19.24 ³¹	23.3 ¹⁸	34.16 ³³	52.7 ¹⁶	8.71 ³⁷	57.7 ¹³
26	52.39 ⁶⁹	20.8 ¹	19.55 ³¹	21.5 ¹⁹	34.49 ³²	51.1 ¹⁵	9.08 ³⁶	56.4 ¹¹
Dec. 6	53.08 ⁶⁵	20.9 ⁶	19.86 ²⁹	19.6 ¹⁹	34.81 ³¹	49.6 ¹⁴	9.44 ³⁵	55.3 ⁸
16	53.73 ⁵⁹	21.5 ¹⁰	20.15 ²⁷	17.7 ¹⁸	35.12 ²⁹	48.2 ¹²	9.79 ³³	54.5 ⁵
26	54.32 ⁵²	22.5 ¹⁶	20.42 ²⁴	15.9 ¹⁸	35.41 ²⁶	47.0 ¹⁰	10.12 ²⁹	54.0 ¹
36	54.84	24.1	20.66	14.1	35.67	46.0	10.41	53.9
Mittl. Ort	46.75	57.7	15.96	40.2	30.79	75.0	5.17	85.6
	415)		134)		417)		136)	

1902	α Hydrae. 2 ^m .0.		λ Ursae maj. 3 ^m .3.		d Ursae maj. 4 ^m .6.		θ Ursae maj. 3 ^m .0.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	9 ^h 22 ^m	8° 14'	9 ^h 23 ^m	63° 28'	9 ^h 25 ^m	70° 15'	9 ^h 26 ^m	52° 6'
Jan. 0	48.07	8.8	51.05	64.8	52.78	19.2	20.50	66.0
10	48.30	11.1	51.50	66.1	53.35	20.8	20.84	66.8
20	48.48	13.2	51.86	67.8	53.80	22.8	21.13	67.9
30	48.61	15.2	52.13	69.9	54.14	25.1	21.35	69.4
Febr. 9	48.70	17.0	52.30	72.3	54.34	27.7	21.48	71.2
19	48.74	18.6	52.35	74.7	54.40	30.5	21.54	73.2
März I	48.73	19.9	52.31	77.2	54.33	33.2	21.52	75.3
11	48.67	20.9	52.17	79.7	54.13	35.9	21.43	77.3
21	48.58	21.7	51.94	82.0	53.82	38.3	21.28	79.2
31	48.47	22.3	51.65	84.0	53.42	40.5	21.07	81.0
April 10	48.33	22.6	51.30	85.7	52.95	42.2	20.83	82.6
20	48.18	22.6	50.92	87.0	52.43	43.6	20.57	83.8
30	48.03	22.5	50.52	87.8	51.88	44.4	20.29	84.6
Mai 10	47.88	22.1	50.12	88.2	51.33	44.7	20.02	85.1
20	47.75	21.6	49.74	88.1	50.80	44.5	19.76	85.2
30	47.62	20.9	49.39	87.5	50.31	43.8	19.52	85.0
Juni 9	47.52	20.0	49.09	86.5	49.88	42.7	19.32	84.3
19	47.44	19.0	48.83	85.1	49.51	41.1	19.15	83.3
29	47.38	17.9	48.63	83.4	49.21	39.1	19.02	82.0
Juli 9	47.34	16.7	48.50	81.3	49.00	36.8	18.94	80.4
19	47.33	15.5	48.43	79.0	48.87	34.2	18.90	78.6
29	47.34	14.3	48.42	76.4	48.84	31.4	18.91	76.5
Aug. 8	47.39	13.1	48.49	73.7	48.91	28.4	18.97	74.2
18	47.47	11.9	48.64	70.6	49.08	25.0	19.08	71.6
28	47.57	11.0	48.85	67.7	49.32	21.9	19.24	69.2
Sept. 7	47.70	10.3	49.12	64.8	49.66	18.8	19.44	66.7
17	47.87	9.9	49.45	62.0	50.08	15.8	19.69	64.2
27	48.06	9.7	49.85	59.3	50.58	12.9	19.98	61.8
Oct. 7	48.28	9.9	50.30	56.8	51.16	10.3	20.31	59.4
17	48.53	10.5	50.81	54.5	51.81	7.9	20.69	57.2
27	48.81	11.4	51.36	52.5	52.51	5.9	21.10	55.2
Nov. 6	49.10	12.7	51.94	50.8	53.26	4.3	21.54	53.4
16	49.41	14.3	52.55	49.5	54.03	3.1	22.00	52.0
26	49.72	16.1	53.17	48.7	54.82	2.4	22.47	50.9
Dec. 6	50.03	18.1	53.78	48.4	55.60	2.2	22.93	50.2
16	50.33	20.3	54.37	48.5	56.35	2.5	23.38	49.9
26	50.60	22.6	54.91	49.2	57.05	3.4	23.80	50.0
36	50.85	24.8	55.40	50.3	57.67	4.8	24.19	50.6
Mittl. Ort	46.30	1.0	48.45	86.0	49.64	41.0	18.40	86.1

138)

139)

418)

140)

1902	10 Leon. min. 4 ^m .8.		ε Leonis. 3 ^m .0.		υ Ursae maj. 3 ^m .6.		6 Sextantis. 6 ^m .1.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	9 ^h 28 ^m	36° 49'	9 ^h 40 ^m	24° 13'	9 ^h 44 ^m	59° 29'	9 ^h 46 ^m	3° 47'
Jan. 0	15.17 ²⁹	40.6 ⁰	19.05 ²⁷	16.8 ⁷	3.74 ⁴²	38.2 ¹⁰	19.43 ²⁴	10.5 ²²
10	15.46 ²⁴	40.6 ³	19.32 ²³	16.1 ⁴	4.16 ³⁵	39.2 ¹⁴	19.67 ²¹	12.7 ¹⁹
20	15.70 ¹⁸	40.9 ⁷	19.55 ¹⁷	15.7 ²	4.51 ²⁸	40.6 ¹⁸	19.88 ¹⁶	14.6 ¹⁸
30	15.88 ¹¹	41.6 ¹⁰	19.72 ¹²	15.5 ⁻²	4.79 ¹⁹	42.4 ²¹	20.04 ¹¹	16.4 ¹⁶
Febr. 9	15.99 ⁶	42.6 ¹²	19.84 ⁷	15.7 ⁴	4.98 ⁹	44.5 ²³	20.15 ⁶	18.0 ¹³
19	16.05 ⁰	43.8 ¹³	19.91 ¹	16.1 ⁶	5.07 ⁰	46.8 ²⁴	20.21 ¹	19.3 ¹¹
März 1	16.05 ⁶	45.1 ¹⁴	19.92 ³	16.7 ⁸	5.07 ⁸	49.2 ²⁴	20.22 ²	20.4 ⁹
11	15.99 ¹⁰	46.5 ¹⁴	19.89 ⁸	17.5 ⁸	4.99 ¹⁷	51.6 ²³	20.20 ⁷	21.3 ⁶
21	15.89 ¹⁴	47.9 ¹³	19.81 ¹¹	18.3 ⁹	4.82 ²³	53.9 ²¹	20.13 ⁹	21.9 ³
31	15.75 ¹⁷	49.2 ¹²	19.70 ¹⁴	19.2 ⁹	4.59 ²⁸	56.0 ¹⁹	20.04 ¹²	22.2 ²
April 10	15.58 ¹⁹	50.4 ¹¹	19.56 ¹⁵	20.1 ⁹	4.31 ³¹	57.9 ¹⁴	19.92 ¹⁴	22.4 ⁰
20	15.39 ¹⁹	51.5 ⁸	19.41 ¹⁶	21.0 ⁸	4.00 ³³	59.3 ¹¹	19.78 ¹⁴	22.4 ³
30	15.20 ¹⁹	52.3 ⁶	19.25 ¹⁶	21.8 ⁶	3.67 ³⁴	60.4 ⁶	19.64 ¹⁴	22.1 ³
Mai 10	15.01 ¹⁹	52.9 ³	19.09 ¹⁵	22.4 ⁵	3.33 ³³	61.0 ²	19.50 ¹³	21.8 ⁵
20	14.82 ¹⁶	53.2 ¹	18.94 ¹³	22.9 ⁴	3.00 ³¹	61.2 ²	19.37 ¹²	21.3 ⁶
30	14.66 ¹⁴	53.3 ⁻²	18.81 ¹²	23.3 ²	2.69 ²⁸	61.0 ⁷	19.25 ¹¹	20.7 ⁸
Juni 9	14.52 ¹¹	53.1 ⁴	18.69 ⁹	23.5 ¹	2.41 ²⁴	60.3 ¹¹	19.14 ⁹	19.9 ⁸
19	14.41 ⁸	52.7 ⁶	18.60 ⁸	23.6 ⁻¹	2.17 ¹⁹	59.2 ¹⁴	19.05 ⁷	19.1 ⁹
29	14.33 ⁴	52.1 ⁹	18.52 ⁴	23.5 ³	1.98 ¹⁴	57.8 ¹⁸	18.98 ⁵	18.2 ¹⁰
Juli 9	14.29 ²	51.2 ¹¹	18.48 ²	23.2 ³	1.84 ⁹	56.0 ²¹	18.93 ²	17.2 ¹⁰
19	14.27 ⁻²	50.1 ¹³	18.46 ⁻¹	22.9 ⁶	1.75 ³	53.9 ²⁴	18.91 ⁰	16.2 ⁹
29	14.29 ⁶	48.8 ¹⁴	18.47 ⁴	22.3 ⁷	1.72 ⁻²	51.5 ²⁵	18.91 ²	15.3 ⁹
Aug. 8	14.35 ¹⁰	47.4 ¹⁷	18.51 ⁸	21.6 ⁹	1.74 ⁹	49.0 ³⁰	18.93 ⁶	14.4 ⁹
18	14.45 ¹³	45.7 ¹⁷	18.59 ¹⁰	20.7 ¹⁰	1.83 ¹⁵	46.0 ²⁸	18.99 ⁸	13.5 ⁶
28	14.58 ¹⁶	44.0 ¹⁸	18.69 ¹³	19.7 ¹²	1.98 ²⁰	43.2 ²⁸	19.07 ¹¹	12.9 ⁴
Sept. 7	14.74 ²⁰	42.2 ¹⁸	18.82 ¹⁷	18.5 ¹³	2.18 ²⁶	40.4 ²⁹	19.18 ¹⁵	12.5 ²
17	14.94 ²³	40.4 ¹⁹	18.99 ¹⁹	17.2 ¹⁵	2.44 ³¹	37.5 ²⁸	19.33 ¹⁷	12.3 ⁻¹
27	15.17 ²⁷	38.5 ²⁰	19.18 ²³	15.7 ¹⁵	2.75 ³⁷	34.7 ²⁶	19.50 ²¹	12.4 ⁴
Oct. 7	15.44 ³⁰	36.5 ¹⁹	19.41 ²⁶	14.2 ¹⁷	3.12 ⁴³	32.1 ²⁵	19.71 ²³	12.8 ⁷
17	15.74 ³³	34.6 ¹⁹	19.67 ²⁹	12.5 ¹⁸	3.55 ⁴⁶	29.6 ²³	19.94 ²⁶	13.5 ¹⁰
27	16.07 ³⁵	32.7 ¹⁸	19.96 ³¹	10.7 ¹⁷	4.01 ⁵¹	27.3 ²⁰	20.20 ²⁹	14.5 ¹³
Nov. 6	16.42 ³⁷	30.9 ¹⁶	20.27 ³³	9.0 ¹⁷	4.52 ⁵³	25.3 ¹⁵	20.49 ³⁰	15.8 ¹⁶
16	16.79 ³⁸	29.3 ¹⁴	20.60 ³⁴	7.3 ¹⁷	5.05 ⁵⁵	23.8 ¹²	20.79 ³²	17.4 ¹⁸
26	17.17 ³⁸	27.9 ¹¹	20.94 ³⁴	5.6 ¹⁶	5.60 ⁵⁵	22.6 ⁸	21.11 ³¹	19.2 ²⁰
Dec. 6	17.55 ³⁶	26.8 ⁸	21.28 ³³	4.0 ¹³	6.15 ⁵⁴	21.8 ²	21.42 ³¹	21.2 ²¹
16	17.91 ³⁴	26.0 ⁵	21.61 ³²	2.7 ¹¹	6.69 ⁵⁰	21.6 ⁻³	21.73 ²⁹	23.3 ²¹
26	18.25 ³¹	25.5 ²	21.93 ²⁹	1.6 ⁹	7.19 ⁴⁶	21.9 ⁷	22.02 ²⁶	25.4 ²¹
36	18.56	25.3	22.22	0.7	7.65	22.6	22.28	27.5
Mittl. Ort	13.36	58.4	17.40	32.3	1.59	59.9	17.77	2.1
	419)		142)		143)		572)	

1902	Gr. 1586. 6 ^m .o.		π Leonis. 5 ^m .o.		η Leonis. 3 ^m .3.		α Leonis. 1 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	9 ^h 49 ^m	73° 20'	9 ^h 55 ^m	8° 30'	10 ^h 1 ^m	17° 13'	10 ^h 3 ^m	12° 26'
Jan. 0	40.87 ⁷¹	21.8 ¹⁵	3.66 ²⁶	40.8 ¹⁶	61.08 ²⁷	72.3 ¹²	10.71 ²⁷	34.2 ¹⁴
10	41.58 ⁵⁸	23.3 ¹⁹	3.92 ²²	39.2 ¹³	61.35 ²³	71.1 ⁹	10.98 ²³	32.8 ¹¹
20	42.16 ⁴⁵	25.2 ²³	4.14 ¹⁸	37.9 ¹¹	61.58 ¹⁹	70.2 ⁶	11.21 ¹⁸	31.7 ⁹
30	42.61 ³⁰	27.5 ²⁶	4.32 ¹²	36.8 ⁹	61.77 ¹⁴	69.6 ³	11.39 ¹⁴	30.8 ⁷
Febr. 9	42.91 ¹⁴	30.1 ²⁹	4.44 ⁸	35.9 ⁶	61.91 ⁹	69.3 ¹	11.53 ⁸	30.1 ⁴
19	43.05 ²	33.0 ²⁸	4.52 ³	35.3 ³	62.00 ³	69.2 ²	11.61 ⁴	29.7 ¹
März 1	43.03 ¹⁶	35.8 ²⁹	4.55 ²	35.0 ²	62.03 ¹	69.4 ⁴	11.65 ¹	29.6 ¹
11	42.87 ³¹	38.7 ²⁶	4.53 ⁶	34.8 ¹	62.02 ⁵	69.8 ⁵	11.64 ⁵	29.7 ³
21	42.56 ⁴²	41.3 ²⁴	4.47 ⁹	34.9 ²	61.97 ⁹	70.3 ⁷	11.59 ⁸	30.0 ⁵
31	42.14 ⁵²	43.7 ²⁰	4.38 ¹¹	35.1 ⁴	61.88 ¹¹	71.0 ⁷	11.51 ¹¹	30.5 ⁵
April 10	41.62 ⁵⁹	45.7 ¹⁶	4.27 ¹³	35.5 ⁴	61.77 ¹³	71.7 ⁸	11.40 ¹³	31.0 ⁶
20	41.03 ⁶⁴	47.3 ¹¹	4.14 ¹⁴	35.9 ⁵	61.64 ¹⁴	72.5 ⁷	11.27 ¹³	31.6 ⁶
30	40.39 ⁶⁵	48.4 ⁶	4.00 ¹⁴	36.4 ⁶	61.50 ¹⁵	73.2 ⁷	11.14 ¹⁴	32.2 ⁶
Mai 10	39.74 ⁶⁵	49.0 ¹	3.86 ¹³	37.0 ⁵	61.35 ¹⁴	73.9 ⁶	11.00 ¹⁴	32.8 ⁶
20	39.09 ⁶¹	49.1 ⁵	3.73 ¹²	37.5 ⁶	61.21 ¹³	74.5 ⁵	10.86 ¹³	33.4 ⁶
30	38.48 ⁵⁸	48.6 ¹⁰	3.61 ¹¹	38.1 ⁶	61.08 ¹¹	75.0 ⁵	10.73 ¹¹	34.0 ⁵
Juni 9	37.90 ⁵⁰	47.6 ¹⁴	3.50 ⁹	38.7 ⁵	60.97 ¹⁰	75.5 ³	10.62 ⁹	34.5 ⁵
19	37.40 ⁴²	46.2 ¹⁹	3.41 ⁸	39.2 ⁶	60.87 ⁸	75.8 ³	10.53 ⁸	35.0 ⁴
29	36.98 ³³	44.3 ²²	3.33 ⁵	39.8 ⁴	60.79 ⁶	76.1 ¹	10.45 ⁶	35.4 ³
Juli 9	36.65 ²⁴	42.1 ²⁶	3.28 ³	40.2 ⁴	60.73 ³	76.2 ¹	10.39 ⁴	35.7 ²
19	36.41 ¹⁴	39.5 ²⁹	3.25 ⁰	40.6 ³	60.70 ¹	76.1 ¹	10.35 ¹	35.9 ¹
29	36.27 ²	36.6 ³¹	3.25 ²	40.9 ²	60.69 ¹	76.0 ³	10.34 ²	36.0 ¹
Aug. 8	36.25 ⁸	33.5 ³²	3.27 ⁵	41.1 ⁰	60.70 ⁵	75.7 ⁵	10.36 ⁴	35.9 ²
18	36.33 ²¹	30.3 ³⁶	3.32 ⁸	41.1 ¹	60.75 ⁸	75.2 ⁷	10.40 ⁸	35.7 ³
28	36.54 ³¹	26.7 ³³	3.40 ¹¹	41.0 ³	60.83 ¹⁰	74.5 ⁸	10.48 ¹⁰	35.4 ⁶
Sept. 7	36.85 ⁴¹	23.4 ³²	3.51 ¹⁴	40.7 ⁵	60.93 ¹⁴	73.7 ¹⁰	10.58 ¹³	34.8 ⁷
17	37.26 ⁵¹	20.2 ³¹	3.65 ¹⁷	40.2 ⁷	61.07 ¹⁷	72.7 ¹²	10.71 ¹⁶	34.1 ⁹
27	37.77 ⁵⁹	17.1 ²⁹	3.82 ²⁰	39.5 ⁹	61.24 ²⁰	71.5 ¹³	10.87 ²⁰	33.2 ¹²
Oct. 7	38.36 ⁶⁹	14.2 ²⁷	4.02 ²³	38.6 ¹²	61.44 ²³	70.2 ¹⁶	11.07 ²²	32.0 ¹³
17	39.05 ⁷⁷	11.5 ²³	4.25 ²⁶	37.4 ¹⁴	61.67 ²⁷	68.6 ¹⁶	11.29 ²⁶	30.7 ¹⁶
27	39.82 ⁸³	9.2 ²⁰	4.51 ²⁹	36.0 ¹⁶	61.94 ²⁹	67.0 ¹⁸	11.55 ²⁹	29.1 ¹⁶
Nov. 6	40.65 ⁸⁸	7.2 ¹⁵	4.80 ³⁰	34.4 ¹⁷	62.23 ³¹	65.2 ¹⁹	11.84 ³⁰	27.5 ¹⁸
16	41.53 ⁹⁰	5.7 ¹⁰	5.10 ³²	32.7 ¹⁸	62.54 ³³	63.3 ¹⁸	12.14 ³²	25.7 ¹⁹
26	42.43 ⁹¹	4.7 ⁴	5.42 ³²	30.9 ¹⁹	62.87 ³³	61.5 ¹⁸	12.46 ³³	23.8 ¹⁸
Dec. 6	43.34 ⁸⁹	4.3 ¹	5.74 ³²	29.0 ¹⁸	63.20 ³³	59.7 ¹⁷	12.79 ³²	22.0 ¹⁸
16	44.23 ⁸³	4.4 ⁷	6.06 ³⁰	27.2 ¹⁸	63.53 ³¹	58.0 ¹⁵	13.11 ³¹	20.2 ¹⁷
26	45.06 ⁷⁶	5.1 ¹²	6.36 ²⁷	25.4 ¹⁷	63.84 ²⁸	56.5 ¹³	13.42 ²⁸	18.5 ¹⁵
36	45.82	6.3	6.63	23.7	64.12	55.2	13.70	17.0
Mittl. Ort	37.86	44.8	2.10	52.4	59.56	86.2	9.20	46.8
	421)		423)		145)		146)	

1902	λ Hydrae. 4 ^m .o.		λ Ursae maj. 3 ^m .3.		ζ Leonis. 3 ^m .o.		μ Ursae maj. 3 ^m .o.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	10 ^h 5 ^m	11° 52'	10 ^h 11 ^m	43° 23'	10 ^h 11 ^m	23° 53'	10 ^h 16 ^m	41° 58'
Jan. 0	50.24 ²⁶	16.1 ²⁴	12.88 ³⁵	53.2 ⁰	15.91 ²⁹	65.9 ⁹	31.10 ³⁵	73.1 ¹
10	50.50 ²²	18.5 ²⁴	13.23 ³⁰	53.2 ⁴	16.20 ²⁵	65.0 ⁶	31.45 ²⁹	73.0 [—]
20	50.72 ¹⁷	20.9 ²²	13.53 ²⁴	53.6 ⁸	16.45 ²¹	64.4 ³	31.74 ²⁴	73.3 ⁷
30	50.89 ¹³	23.1 ²¹	13.77 ¹⁸	54.4 ¹²	16.66 ¹⁵	64.1 [—]	31.98 ¹⁹	74.0 ¹¹
Febr. 9	51.02 ⁸	25.2 ¹⁸	13.95 ¹²	55.6 ¹⁵	16.81 ¹⁰	64.2 ³	32.17 ¹²	75.1 ¹³
19	51.10 ³	27.0 ¹⁶	14.07 ⁵	57.1 ¹⁷	16.91 ⁵	64.5 ⁶	32.29 ⁶	76.4 ¹⁶
März 1	51.13 ¹	28.6 ¹³	14.12 ¹	58.8 ¹⁸	16.96 ¹	65.1 ⁸	32.35 ¹	78.0 ¹⁸
11	51.12 ⁵	29.9 ¹¹	14.11 ⁷	60.6 ¹⁸	16.95 ⁴	65.9 ⁹	32.34 ⁶	79.8 ¹⁸
21	51.07 ⁹	31.0 ⁸	14.04 ¹²	62.4 ¹⁸	16.91 ⁹	66.8 ¹⁰	32.28 ¹¹	81.6 ¹⁸
31	50.98 ¹¹	31.8 ⁶	13.92 ¹⁵	64.2 ¹⁷	16.82 ¹¹	67.8 ¹⁰	32.17 ¹⁴	83.4 ¹⁷
April 10	50.87 ¹²	32.4 ³	13.77 ¹⁸	65.9 ¹⁵	16.71 ¹³	68.8 ¹⁰	32.03 ¹⁷	85.1 ¹⁵
20	50.75 ¹⁴	32.7 ⁰	13.59 ²⁰	67.4 ¹³	16.58 ¹⁵	69.8 ⁹	31.86 ²⁰	86.6 ¹³
30	50.61 ¹³	32.7 ¹	13.39 ²¹	68.7 ¹⁰	16.43 ¹⁵	70.7 ⁸	31.66 ²⁰	87.9 ¹⁰
Mai 10	50.48 ¹⁴	32.6 ⁴	13.18 ²¹	69.7 ⁶	16.28 ¹⁵	71.5 ⁷	31.46 ²⁰	88.9 ⁷
20	50.34 ¹³	32.2 ⁶	12.97 ²⁰	70.3 ³	16.13 ¹⁴	72.2 ⁶	31.26 ¹⁹	89.6 ⁴
30	50.21 ¹²	31.6 ⁸	12.77 ¹⁸	70.6 ⁰	15.99 ¹²	72.8 ³	31.07 ¹⁷	90.0 ⁰
Juni. 9	50.09 ¹⁰	30.8 ⁹	12.59 ¹⁶	70.6 ³	15.87 ¹¹	73.1 ²	30.90 ¹⁶	90.0 ²
19	49.99 ⁹	29.9 ¹¹	12.43 ¹³	70.3 ⁷	15.76 ⁹	73.3 ⁰	30.74 ¹³	89.8 ⁶
29	49.90 ⁷	28.8 ¹¹	12.30 ¹⁰	69.6 ⁹	15.67 ⁷	73.3 ¹	30.61 ¹⁰	89.2 ⁸
Juli 9	49.83 ⁴	27.7 ¹³	12.20 ⁷	68.7 ¹³	15.60 ⁴	73.2 ³	30.51 ⁸	88.4 ¹²
19	49.79 ²	26.4 ¹²	12.13 ⁴	67.4 ¹⁵	15.56 ²	72.9 ⁵	30.43 ⁴	87.2 ¹⁴
29	49.77 ⁰	25.2 ¹³	12.09 ¹	65.9 ¹⁸	15.54 ⁰	72.4 ⁷	30.39 ¹	85.8 ¹⁷
Aug. 8	49.77 ²	23.9 ¹²	12.08 [—]	64.1 ¹⁹	15.54 ⁴	71.7 ⁹	30.38 [—]	84.1 ¹⁸
18	49.79 ⁷	22.7 ¹¹	12.12 ⁴	62.2 ²³	15.58 ⁷	70.8 ¹¹	30.41 ⁷	82.3 ²³
28	49.86 ⁹	21.6 ⁹	12.20 ²⁴	59.9 ²³	15.65 ²⁴	69.7 ¹¹	30.48 ²⁵	80.0 ²³
Sept. 7	49.95 ¹²	20.7 ⁷	12.32 ¹⁵	57.6 ²³	15.75 ¹³	68.5 ¹⁴	30.59 ¹⁵	77.8 ²²
17	50.07 ¹⁶	20.0 ³	12.47 ²⁰	55.3 ²⁴	15.88 ¹⁷	67.1 ¹⁶	30.74 ¹⁹	75.5 ²³
27	50.23 ¹⁹	19.7 ⁰	12.67 ²⁴	52.9 ²⁵	16.05 ²⁰	65.5 ¹⁷	30.93 ²³	73.1 ²⁴
Oct. 7	50.42 ²³	19.7 ³	12.91 ²⁸	50.4 ²⁴	16.25 ²³	63.8 ¹⁸	31.16 ²⁷	70.6 ²⁵
17	50.65 ²⁵	20.0 ⁷	13.19 ³²	48.0 ²⁴	16.48 ²⁷	62.0 ¹⁹	31.43 ³¹	68.2 ²⁴
27	50.90 ²⁸	20.7 ¹¹	13.51 ³⁶	45.6 ²²	16.75 ²⁹	60.1 ¹⁹	31.74 ³⁴	65.9 ²³
Nov. 6	51.18 ³¹	21.8 ¹⁴	13.87 ³⁸	43.4 ²⁰	17.04 ³²	58.2 ¹⁹	32.08 ³⁷	63.6 ²⁰
16	51.49 ³²	23.2 ¹⁸	14.25 ⁴⁰	41.4 ¹⁸	17.36 ³⁴	56.3 ¹⁹	32.45 ⁴⁰	61.6 ¹⁸
26	51.81 ³²	25.0 ²⁰	14.65 ⁴¹	39.6 ¹⁴	17.70 ³⁴	54.4 ¹⁸	32.85 ⁴⁰	59.8 ¹⁵
Dec. 6	52.13 ³¹	27.0 ²³	15.06 ⁴¹	38.2 ¹⁰	18.04 ³⁴	52.6 ¹⁶	33.25 ⁴⁰	58.3 ¹²
16	52.44 ³⁰	29.3 ²³	15.47 ³⁹	37.2 ⁷	18.38 ³³	51.0 ¹³	33.65 ³⁹	57.1 ⁷
26	52.74 ²⁷	31.6 ²⁴	15.86 ³⁷	36.5 ²	18.71 ³¹	49.7 ¹⁰	34.04 ³⁶	56.4 ⁴
36	53.01	34.0	16.23	36.3	19.02	48.7	34.40	56.0
Mittl. Ort	48.61	10.4	11.35	73.2	14.45	81.5	29.61	92.8
	573)		147)		148)		149)	

1902	30 H. Urs. maj. 5 ^m .0.		μ Hydrae. 4 ^m .0.		31 Leon. min. 4 ^m .3		Lac. α Antliae. 4 ^m .2.	
	AR.	Decl. +	AR.	Decl. —	AR.	Decl. +	AR.	Decl. —
	10 ^h 17 ^m	66° 3'	10 ^h 21 ^m	16° 20'	10 ^h 22 ^m	37° 11'	10 ^h 22 ^m	30° 34'
Jan. 0	6.07 ⁵⁶	20.6 ⁹	22.61 ²⁸	13.5 ²⁵	14.54 ³³	76.0 ⁴	41.73 ²⁸	9.0 ²⁹
10	6.63 ⁴⁹	21.5 ¹⁴	22.89 ²³	16.0 ²⁵	14.87 ²⁸	75.6 ⁰	42.01 ²⁵	11.9 ³⁰
20	7.12 ³⁹	22.9 ¹⁸	23.12 ¹⁹	18.5 ²⁵	15.15 ²⁴	75.6 ⁵	42.26 ¹⁹	14.9 ³⁰
30	7.51 ²⁹	24.7 ²³	23.31 ¹⁴	21.0 ²³	15.39 ¹⁹	76.1 ⁷	42.45 ¹⁵	17.9 ²⁹
Febr. 9	7.80 ¹⁸	27.0 ²⁵	23.45 ¹⁰	23.3 ²¹	15.58 ¹²	76.8 ¹¹	42.60 ¹⁰	20.8 ²⁸
19	7.98 ⁷	29.5 ²⁷	23.55 ⁵	25.4 ¹⁹	15.70 ⁶	77.9 ¹⁴	42.70 ⁴	23.6 ²⁶
März 1	8.05 ⁴	32.2 ²⁷	23.60 ⁰	27.3 ¹⁶	15.76 ¹	79.3 ¹⁵	42.74 ¹	26.2 ²⁴
11	8.01 ¹⁵	34.9 ²⁶	23.60 ⁴	28.9 ¹³	15.77 ⁵	80.8 ¹⁶	42.73 ⁵	28.6 ²¹
21	7.86 ²⁴	37.5 ²⁵	23.56 ⁷	30.2 ¹¹	15.72 ⁹	82.4 ¹⁶	42.68 ⁸	30.7 ¹⁸
31	7.62 ³¹	40.0 ²³	23.49 ¹⁰	31.3 ⁸	15.63 ¹³	84.0 ¹⁶	42.60 ¹¹	32.5 ¹⁴
April 10	7.31 ³⁶	42.3 ¹⁸	23.39 ¹²	32.1 ⁵	15.50 ¹⁵	85.6 ¹⁴	42.49 ¹⁴	33.9 ¹¹
20	6.95 ⁴⁰	44.1 ¹⁵	23.27 ¹³	32.6 ³	15.35 ¹⁷	87.0 ¹³	42.35 ¹⁵	35.0 ⁸
30	6.55 ⁴³	45.6 ¹⁰	23.14 ¹⁴	32.9 ¹	15.18 ¹⁸	88.3 ¹⁰	42.20 ¹⁶	35.8 ³
Mai 10	6.12 ⁴³	46.6 ⁵	23.00 ¹⁴	32.8 ²	15.00 ¹⁸	89.3 ⁸	42.04 ¹⁷	36.1 ¹
20	5.69 ⁴³	47.1 ⁰	22.86 ¹³	32.6 ⁵	14.82 ¹⁸	90.1 ⁵	41.87 ¹⁶	36.2 ³
30	5.26 ⁴⁰	47.1 ⁵	22.73 ¹²	32.1 ⁷	14.64 ¹⁶	90.6 ²	41.71 ¹⁵	35.9 ⁷
Juni 9	4.86 ³⁶	46.6 ⁹	22.61 ¹¹	31.4 ⁹	14.48 ¹⁴	90.8 ¹	41.56 ¹⁴	35.2 ⁹
19	4.50 ³²	45.7 ¹⁴	22.50 ¹⁰	30.5 ¹¹	14.34 ¹²	90.7 ⁴	41.42 ¹³	34.3 ¹³
29	4.18 ²⁶	44.3 ¹⁸	22.40 ⁸	29.4 ¹³	14.22 ¹⁰	90.3 ⁷	41.29 ¹¹	33.0 ¹⁶
Juli 9	3.92 ²⁰	42.5 ²¹	22.32 ⁶	28.1 ¹³	14.12 ⁷	89.6 ⁹	41.18 ⁸	31.4 ¹⁷
19	3.72 ¹³	40.4 ²⁵	22.26 ⁴	26.8 ¹⁴	14.05 ⁴	88.7 ¹²	41.10 ⁶	29.7 ¹⁹
29	3.59 ⁶	37.9 ²⁸	22.22 ²	25.4 ¹⁴	14.01 ¹	87.5 ¹⁴	41.04 ³	27.8 ²⁰
Aug. 8	3.53 ⁰	35.1 ²⁹	22.20 ¹	24.0 ¹⁴	14.00 ²	86.1 ¹⁵	41.01 ¹	25.8 ²⁰
18	3.53 ⁹	32.2 ³⁴	22.21 ¹	22.6 ¹⁴	14.02 ⁶	84.6 ²⁰	41.00 ²⁷	23.8 ²²
28	3.62 ¹⁶	28.8 ³²	22.26 ⁷	21.2 ¹¹	14.08 ¹⁰	82.6 ²⁰	41.04 ⁷	21.6 ¹⁸
Sept. 7	3.78 ²³	25.6 ³²	22.33 ¹¹	20.1 ⁹	14.18 ¹³	80.6 ²¹	41.11 ¹²	19.8 ¹⁶
17	4.01 ³¹	22.4 ³²	22.44 ¹⁵	19.2 ⁶	14.31 ¹⁷	78.5 ²³	41.23 ¹⁵	18.2 ¹⁴
27	4.32 ³⁸	19.2 ³¹	22.59 ¹⁸	18.6 ³	14.48 ²¹	76.2 ²³	41.38 ¹⁹	16.8 ⁹
Oct. 7	4.70 ⁴⁵	16.1 ²⁹	22.77 ²²	18.3 ¹	14.69 ²⁵	73.9 ²³	41.57 ²⁴	15.9 ⁶
17	5.15 ⁵¹	13.2 ²⁶	22.99 ²⁵	18.4 ⁵	14.94 ²⁹	71.6 ²³	41.81 ²⁷	15.3 ⁰
27	5.66 ⁵⁷	10.6 ²³	23.24 ²⁸	18.9 ⁹	15.23 ³²	69.3 ²²	42.08 ³⁰	15.3 ⁴
Nov. 6	6.23 ⁶²	8.3 ²⁰	23.52 ³⁰	19.8 ¹³	15.55 ³⁵	67.1 ²¹	42.38 ³³	15.7 ⁹
16	6.85 ⁶⁵	6.3 ¹⁵	23.82 ³²	21.1 ¹⁷	15.90 ³⁷	65.0 ¹⁹	42.71 ³⁵	16.6 ¹⁴
26	7.50 ⁶⁶	4.8 ¹⁰	24.14 ³³	22.8 ¹⁹	16.27 ³⁸	63.1 ¹⁶	43.06 ³⁵	18.0 ¹⁹
Dec. 6	8.16 ⁶⁶	3.8 ⁵	24.47 ³²	24.7 ²²	16.65 ³⁸	61.5 ¹⁴	43.41 ³⁵	19.9 ²²
16	8.82 ⁶⁴	3.3 ¹	24.79 ³¹	26.9 ²⁴	17.03 ³⁷	60.1 ¹⁰	43.76 ³³	22.1 ²⁵
26	9.46 ⁵⁹	3.4 ⁶	25.10 ²⁹	29.3 ²⁵	17.40 ³⁵	59.1 ⁵	44.09 ³⁰	24.6 ²⁸
36	10.05	4.0	25.39	31.8	17.75	58.6	44.39	27.4
Mittl. Ort	4.15	44.0	21.01	9.5	13.12	94.8	39.94	9.0
	424)		574)		426)		575)	

1902	36 Ursae maj. 5 ^m .o.		9 H. Draconis. 4 ^m .6.		33 Sextantis. 6 ^m .4.		42 Leon. min. 5 ^m .o.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +
	10 ^h 24 ^m	56° 28'	10 ^h 26 ^m	76° 12'	10 ^h 36 ^m	1° 13'	10 ^h 40 ^m	31° 11'
Jan. 0	23.08	37.2	48.85	40.3	26.34	42.5	26.27	38.0
10	23.52	37.6	49.76	41.4	26.62	44.6	26.60	37.2
20	23.91	38.5	50.55	43.1	26.86	46.5	26.89	36.8
30	24.23	39.9	51.20	45.2	27.07	48.2	27.13	36.8
Febr. 9	24.47	41.7	51.68	47.8	27.23	49.7	27.32	37.2
19	24.63	43.7	51.98	50.6	27.34	50.9	27.46	37.9
März 1	24.70	46.0	52.09	53.5	27.41	52.0	27.54	38.9
11	24.70	48.4	52.02	56.5	27.43	52.7	27.57	40.1
21	24.61	50.8	51.78	59.4	27.41	53.2	27.55	41.5
31	24.46	53.1	51.38	62.1	27.36	53.5	27.48	42.9
April 10	24.26	55.3	50.84	64.5	27.28	53.5	27.38	44.3
20	24.01	57.1	50.20	66.5	27.18	53.4	27.26	45.7
30	23.73	58.6	49.47	68.1	27.07	53.2	27.11	46.9
Mai 10	23.44	59.7	48.70	69.1	26.95	52.8	26.96	48.0
20	23.14	60.4	47.91	69.6	26.82	52.3	26.80	48.9
30	22.85	60.7	47.12	69.6	26.70	51.7	26.64	49.6
Juni 9	22.58	60.6	46.37	69.0	26.58	51.1	26.50	50.0
19	22.34	60.0	45.67	67.9	26.48	50.3	26.36	50.2
29	22.12	59.0	45.04	66.3	26.39	49.6	26.25	50.1
Juli 9	21.94	57.6	44.51	64.2	26.31	48.8	26.15	49.8
19	21.80	55.8	44.08	61.8	26.25	48.0	26.07	49.2
29	21.71	53.7	43.76	59.0	26.21	47.3	26.02	48.4
Aug. 8	21.67	51.4	43.55	56.0	26.19	46.6	26.00	47.4
18	21.67	48.9	43.48	52.7	26.20	46.1	26.00	46.1
28	21.73	46.2	43.53	49.3	26.23	45.7	26.03	44.6
Sept. 7	21.85	43.0	43.74	45.5	26.30	45.4	26.11	42.8
17	22.02	40.1	44.06	42.0	26.39	45.4	26.21	41.0
27	22.25	37.1	44.51	38.6	26.52	45.6	26.35	39.0
Oct. 7	22.53	34.2	45.08	35.3	26.69	46.1	26.53	36.8
17	22.86	31.3	45.78	32.2	26.89	46.9	26.75	34.6
27	23.24	28.7	46.59	29.5	27.12	48.0	27.00	32.4
Nov. 6	23.67	26.3	47.48	27.1	27.38	49.3	27.30	30.1
16	24.14	24.2	48.46	25.1	27.67	50.9	27.62	27.9
26	24.63	22.4	49.48	23.6	27.98	52.8	27.96	25.8
Dec. 6	25.14	21.1	50.54	22.7	28.30	54.8	28.32	24.0
16	25.65	20.3	51.60	22.4	28.62	56.9	28.69	22.4
26	26.15	19.9	52.62	22.7	28.93	59.0	29.04	21.1
36	26.62	20.0	53.57	23.5	29.22	61.0	29.37	20.1
Mittl. Ort	21.52	59.5	46.46	64.6	24.93	34.4	25.01	55.5

427)

150)

576)

431)

1902	♌ Leonis. 5 ^m .I.		♍ Ursae maj. 2 ^m .3.		♎ Ursae maj. 2 ^m .0.		♏ Leonis. 4 ^m .8.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	10 ^h 44 ^m	11° 3'	10 ^h 55 ^m	56° 53'	10 ^h 57 ^m	62° 16'	10 ^h 59 ^m	7° 51'
Jan. 0	7.70 ²⁹	37.9 ¹⁶	57.05 ⁴⁷	65.5 ¹	42.27 ⁵⁴	24.9 ³	58.92 ²⁹	47.2 ¹⁸
10	7.99 ²⁶	36.3 ¹³	57.52 ⁴³	65.6 ⁷	42.81 ⁴⁹	25.2 ⁸	59.21 ²⁷	45.4 ¹⁶
20	8.25 ²²	35.0 ¹¹	57.95 ³⁶	66.3 ¹²	43.30 ⁴¹	26.0 ¹⁴	59.48 ²³	43.8 ¹³
30	8.47 ¹⁷	33.9 ⁹	58.31 ²⁹	67.5 ¹⁶	43.71 ³³	27.4 ¹⁸	59.71 ¹⁸	42.5 ¹⁰
Febr. 9	8.64 ¹³	33.0 ⁵	58.60 ²²	69.1 ¹⁹	44.04 ²⁵	29.2 ²²	59.89 ¹⁴	41.5 ⁸
19	8.77 ⁸	32.5 ²	58.82 ¹³	71.0 ²³	44.29 ¹⁴	31.4 ²⁴	60.03 ⁹	40.7 ⁴
März 1	8.85 ³	32.3 ⁰	58.95 ⁴	73.3 ²⁵	44.43 ⁵	33.8 ²⁷	60.12 ⁵	40.3 ²
11	8.88 ¹	32.3 ²	58.99 ³	75.8 ²⁵	44.48 ⁴	36.5 ²⁷	60.17 ⁰	40.1 ⁰
21	8.87 ⁴	32.5 ⁴	58.96 ¹⁰	78.3 ²⁵	44.44 ¹²	39.2 ²⁶	60.17 ³	40.1 ³
31	8.83 ⁸	32.9 ⁶	58.86 ¹⁶	80.8 ²³	44.32 ²⁰	41.8 ²⁵	60.14 ⁶	40.4 ⁴
April 10	8.75 ¹⁰	33.5 ⁶	58.70 ²¹	83.1 ²¹	44.12 ²⁶	44.3 ²²	60.08 ⁹	40.8 ⁵
20	8.65 ¹¹	34.1 ⁷	58.49 ²⁵	85.2 ¹⁹	43.86 ³¹	46.5 ¹⁹	59.99 ¹⁰	41.3 ⁶
30	8.54 ¹²	34.8 ⁷	58.24 ²⁸	87.1 ¹⁵	43.55 ³⁴	48.4 ¹⁵	59.89 ¹¹	41.9 ⁷
Mai 10	8.42 ¹³	35.5 ⁷	57.96 ²⁹	88.6 ¹⁰	43.21 ³⁵	49.9 ¹⁰	59.78 ¹²	42.6 ⁷
20	8.29 ¹²	36.2 ⁷	57.67 ³⁰	89.6 ⁶	42.86 ³⁶	50.9 ⁶	59.66 ¹²	43.3 ⁷
30	8.17 ¹²	36.9 ⁶	57.37 ²⁸	90.2 ²	42.50 ³⁵	51.5 ¹	59.54 ¹²	44.0 ⁶
Juni 9	8.05 ¹¹	37.5 ⁶	57.09 ²⁷	90.4 ³	42.15 ³⁴	51.6 ⁴	59.42 ¹¹	44.6 ⁷
19	7.94 ¹⁰	38.1 ⁵	56.82 ²⁵	90.1 ⁷	41.81 ³¹	51.2 ⁹	59.31 ¹⁰	45.3 ⁵
29	7.84 ⁸	38.6 ⁴	56.57 ²²	89.4 ¹²	41.50 ²⁷	50.3 ¹³	59.21 ⁸	45.8 ⁵
Juli 9	7.76 ⁶	39.0 ²	56.35 ¹⁸	88.2 ¹⁵	41.23 ²³	49.0 ¹⁷	59.13 ⁷	46.3 ⁴
19	7.70 ⁴	39.2 ²	56.17 ¹⁴	86.7 ¹⁹	41.00 ¹⁸	47.3 ²¹	59.06 ⁶	46.7 ³
29	7.66 ²	39.4 ⁰	56.03 ¹⁰	84.8 ²²	40.82 ¹⁴	45.2 ²⁴	59.00 ⁴	47.0 ²
Aug. 8	7.64 ⁰	39.4 ¹	55.93 ⁵	82.6 ²⁵	40.68 ⁷	42.8 ²⁷	58.96 ¹	47.2 ¹
18	7.64 ²	39.3 ³	55.88 ⁰	80.1 ²⁷	40.61 ²	40.1 ²⁹	58.95 ¹	47.3 ¹
28	7.66 ⁷	39.0 ⁵	55.88 ⁵	77.4 ³²	40.59 ⁵	37.2 ³⁴	58.96 ⁴	47.2 ⁴
Sept. 7	7.73 ⁹	38.5 ⁷	55.93 ¹¹	74.2 ³⁰	40.64 ¹¹	33.8 ³³	59.00 ⁸	46.8 ⁵
17	7.82 ¹²	37.8 ¹⁰	56.04 ¹⁶	71.2 ³¹	40.75 ¹⁹	30.5 ³³	59.08 ¹⁰	46.3 ⁸
27	7.94 ¹⁶	36.8 ¹¹	56.20 ²³	68.1 ³²	40.94 ²⁵	27.2 ³²	59.18 ¹⁴	45.5 ¹⁰
Oct. 7	8.10 ²⁰	35.7 ¹⁴	56.43 ²⁹	64.9 ³¹	41.19 ³²	24.0 ³²	59.32 ¹⁸	44.5 ¹²
17	8.30 ²³	34.3 ¹⁶	56.72 ³⁴	61.8 ²⁹	41.51 ³⁹	20.8 ³⁰	59.50 ²²	43.3 ¹⁵
27	8.53 ²⁶	32.7 ¹⁷	57.06 ⁴⁰	58.9 ²⁷	41.90 ⁴⁵	17.8 ²⁸	59.72 ²⁵	41.8 ¹⁷
Nov. 6	8.79 ²⁹	31.0 ¹⁹	57.46 ⁴⁴	56.2 ²⁵	42.35 ⁵⁰	15.0 ²⁵	59.97 ²⁸	40.1 ¹⁸
16	9.08 ³¹	29.1 ²⁰	57.90 ⁴⁸	53.7 ²¹	42.85 ⁵⁴	12.5 ²¹	60.25 ³⁰	38.3 ²⁰
26	9.39 ³²	27.1 ²⁰	58.38 ⁵¹	51.6 ¹⁷	43.39 ⁵⁸	10.4 ¹⁶	60.55 ³²	36.3 ²⁰
Dec. 6	9.71 ³³	25.1 ²⁰	58.89 ⁵¹	49.9 ¹²	43.97 ⁵⁸	8.8 ¹²	60.87 ³³	34.3 ²⁰
16	10.04 ³²	23.1 ¹⁸	59.40 ⁵¹	48.7 ⁸	44.55 ⁵⁸	7.6 ⁶	61.20 ³²	32.3 ²⁰
26	10.36 ³⁰	21.3 ¹⁸	59.91 ⁴⁸	47.9 ¹	45.13 ⁵⁶	7.0 ⁰	61.52 ³⁰	30.3 ¹⁸
36	10.66	19.5	60.39	47.8	45.69	7.0	61.82	28.5
Mittl. Ort	6.41	49.7	55.89	88.4	41.10	48.5	57.69	57.6
	432)		153)		154)		434)	

1902	♃ Ursae maj. 3 ^m .I.		♄ Crateris. 4 ^m .O.		♁ Leonis. 2 ^m .3.		♂ Leonis. 3 ^m .3.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	11 ^h 4 ^m	45° 1'	11 ^h 6 ^m	22° 17'	11 ^h 8 ^m	21° 3'	11 ^h 9 ^m	15° 57'
Jan. 0	10.46 ³⁹	27.9 ⁴	51.62 ³¹	27.6 ²⁶	54.97 ³²	24.5 ¹⁴	6.99 ³¹	42.7 ¹⁶
10	10.85 ³⁵	27.5 ⁰	51.93 ²⁸	30.2 ²⁶	55.29 ²⁸	23.1 ¹⁰	7.30 ²⁸	41.1 ¹³
20	11.20 ³¹	27.5 ⁶	52.21 ²³	32.8 ²⁶	55.57 ²⁵	22.1 ⁷	7.58 ²⁴	39.8 ⁹
30	11.51 ²⁵	28.1 ¹⁰	52.44 ¹⁹	35.4 ²⁶	55.82 ²¹	21.4 ³	7.82 ²⁰	38.9 ⁶
Febr. 9	11.76 ¹⁸	29.1 ¹⁴	52.63 ¹⁴	38.0 ²⁴	56.03 ¹⁶	21.1 ⁰	8.02 ¹⁶	38.3 ³
19	11.94 ¹²	30.5 ¹⁷	52.77 ¹⁰	40.4 ²²	56.19 ¹⁰	21.1 ⁴	8.18 ¹⁰	38.0 ¹
März 1	12.06 ⁶	32.2 ¹⁹	52.87 ⁵	42.6 ²⁰	56.29 ⁶	21.5 ⁶	8.28 ⁶	38.1 ³
11	12.12 ⁰	34.1 ²⁰	52.92 ¹	44.6 ¹⁷	56.35 ²	22.1 ⁸	8.34 ¹	38.4 ⁵
21	12.12 ⁶	36.1 ²¹	52.93 ³	46.3 ¹⁵	56.37 ³	22.9 ¹⁰	8.35 ²	38.9 ⁷
31	12.06 ¹⁰	38.2 ²¹	52.90 ⁶	47.8 ¹²	56.34 ⁶	23.9 ¹¹	8.33 ⁶	39.6 ⁸
April 10	11.96 ¹⁴	40.3 ¹⁹	52.84 ⁹	49.0 ¹⁰	56.28 ⁹	25.0 ¹¹	8.27 ⁸	40.4 ⁹
20	11.82 ¹⁸	42.2 ¹⁷	52.75 ¹⁰	50.0 ⁶	56.19 ¹⁰	26.1 ¹¹	8.19 ¹⁰	41.3 ¹⁰
30	11.64 ¹⁹	43.9 ¹⁵	52.65 ¹²	50.6 ⁴	56.09 ¹²	27.2 ¹¹	8.09 ¹²	42.3 ⁹
Mai 10	11.45 ²⁰	45.4 ¹²	52.53 ¹³	51.0 ¹	55.97 ¹³	28.3 ⁹	7.97 ¹²	43.2 ⁹
20	11.25 ²¹	46.6 ⁸	52.40 ¹³	51.1 ²	55.84 ¹³	29.2 ⁸	7.85 ¹²	44.1 ⁷
30	11.04 ²⁰	47.4 ⁴	52.27 ¹³	50.9 ⁵	55.71 ¹³	30.0 ⁷	7.73 ¹²	44.8 ⁷
Juni 9	10.84 ¹⁹	47.8 ¹	52.14 ¹²	50.4 ⁷	55.58 ¹²	30.7 ⁶	7.61 ¹²	45.5 ⁶
19	10.65 ¹⁷	47.9 ³	52.02 ¹²	49.7 ¹⁰	55.46 ¹²	31.3 ³	7.49 ¹¹	46.1 ⁴
29	10.48 ¹⁵	47.6 ⁷	51.90 ¹¹	48.7 ¹¹	55.34 ¹⁰	31.6 ¹	7.38 ⁹	46.5 ³
Juli 9	10.33 ¹⁴	46.9 ¹⁰	51.79 ¹⁰	47.6 ¹³	55.24 ⁸	31.7 ¹	7.29 ⁸	46.8 ²
19	10.19 ¹⁰	45.9 ¹³	51.69 ⁸	46.3 ¹⁴	55.16 ⁷	31.6 ³	7.21 ⁷	47.0 ¹
29	10.09 ⁷	44.6 ¹⁷	51.61 ⁶	44.9 ¹⁵	55.09 ⁴	31.3 ⁵	7.14 ⁴	46.9 ²
Aug. 8	10.02 ⁴	42.9 ¹⁹	51.55 ³	43.4 ¹⁵	55.05 ³	30.8 ⁶	7.10 ²	46.7 ⁴
18	9.98 ⁰	41.0 ²²	51.52 ¹	41.9 ¹⁵	55.02 ⁰	30.2 ⁹	7.08 ⁰	46.3 ⁶
28	9.98 ³	38.8 ²⁴	51.51 ³	40.4 ¹⁴	55.02 ⁴	29.3 ¹¹	7.08 ²	45.7 ⁸
Sept. 7	10.01 ⁹	36.4 ²⁸	51.54 ⁷	39.0 ¹⁴	55.06 ⁷	28.2 ¹⁴	7.10 ⁷	44.9 ¹¹
17	10.10 ¹³	33.6 ²⁷	51.61 ¹⁰	37.6 ¹⁰	55.13 ¹⁰	26.8 ¹⁵	7.17 ¹⁰	43.8 ¹³
27	10.23 ¹⁷	30.9 ²⁸	51.71 ¹⁴	36.6 ⁶	55.23 ¹⁴	25.3 ¹⁸	7.27 ¹⁴	42.5 ¹⁴
Oct. 7	10.40 ²³	28.1 ²⁸	51.85 ¹⁹	36.0 ⁴	55.37 ¹⁸	23.5 ¹⁹	7.41 ¹⁸	41.1 ¹⁷
17	10.63 ²⁷	25.3 ²⁸	52.04 ²²	35.6 ¹	55.55 ²²	21.6 ²⁰	7.59 ²¹	39.4 ¹⁸
27	10.90 ³¹	22.5 ²⁷	52.26 ²⁶	35.7 ⁵	55.77 ²⁵	19.6 ²²	7.80 ²⁵	37.6 ²⁰
Nov. 6	11.21 ³⁵	19.8 ²⁵	52.52 ³⁰	36.2 ⁹	56.02 ²⁹	17.4 ²¹	8.05 ²⁸	35.6 ²¹
16	11.56 ³⁹	17.3 ²²	52.82 ³²	37.1 ¹³	56.31 ³¹	15.3 ²²	8.33 ³¹	33.5 ²¹
26	11.95 ⁴⁰	15.1 ²⁰	53.14 ³⁴	38.4 ¹⁷	56.62 ³³	13.1 ²¹	8.64 ³²	31.4 ²¹
Dec. 6	12.35 ⁴²	13.1 ¹⁶	53.48 ³⁴	40.1 ²⁰	56.95 ³⁴	11.0 ²⁰	8.96 ³⁴	29.3 ²⁰
16	12.77 ⁴²	11.5 ¹¹	53.82 ³³	42.1 ²³	57.29 ³⁴	9.0 ¹⁸	9.30 ³³	27.3 ¹⁸
26	13.19 ⁴⁰	10.4 ⁷	54.15 ³¹	44.4 ²⁴	57.63 ³³	7.2 ¹⁴	9.63 ³²	25.5 ¹⁷
36	13.59	9.7	54.46	46.8	57.96	5.8	9.95	23.8
Mittl. Ort	9.40	48.6	50.17	27.2	53.87	38.9	5.87	55.4
	155)		578)		156)		157)	

1902	♋ Ursae maj. 3 ^m .3.		♌ Crateris. 3 ^m .3.		♍ Leonis. 4 ^m .1.		Gr. 1771. 6 ^m .1.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	11 ^h 13 ^m	33° 37'	11 ^h 14 ^m	14° 14'	11 ^h 16 ^m	6° 33'	11 ^h 17 ^m	64° 51'
Jan. 0	12.42	27.3	27.69	56.7	6.15	49.6	2.64	36.4
10	12.77	26.4	27.99	59.1	6.45	47.8	3.24	36.5
20	13.08	25.9	28.26	61.4	6.73	46.1	3.78	37.3
30	13.36	25.8	28.50	63.7	6.97	44.7	4.25	38.6
Febr. 9	13.59	26.2	28.69	65.9	7.17	43.6	4.65	40.3
19	13.76	26.9	28.84	67.9	7.32	42.7	4.95	42.5
März 1	13.88	28.0	28.95	69.7	7.43	42.2	5.14	45.0
11	13.95	29.3	29.01	71.2	7.49	41.9	5.23	47.7
21	13.96	30.8	29.03	72.4	7.52	41.9	5.23	50.6
31	13.93	32.5	29.01	73.5	7.51	42.0	5.13	53.4
April 10	13.86	34.2	28.96	74.3	7.46	42.4	4.94	56.0
20	13.76	35.8	28.89	74.8	7.39	42.9	4.68	58.4
30	13.63	37.3	28.80	75.1	7.30	43.5	4.37	60.5
Mai 10	13.49	38.6	28.69	75.2	7.19	44.1	4.01	62.2
20	13.33	39.8	28.57	75.0	7.08	44.8	3.62	63.5
30	13.17	40.7	28.45	74.7	6.96	45.5	3.22	64.2
Juni 9	13.02	41.4	28.33	74.2	6.85	46.2	2.82	64.5
19	12.87	41.7	28.22	73.5	6.74	46.9	2.44	64.3
29	12.73	41.8	28.11	72.6	6.64	47.5	2.07	63.6
Juli 9	12.61	41.6	28.01	71.7	6.54	48.1	1.74	62.4
19	12.50	41.0	27.92	70.6	6.46	48.5	1.45	60.8
29	12.42	40.2	27.84	69.4	6.39	48.9	1.20	58.8
Aug. 8	12.36	39.1	27.78	68.3	6.34	49.2	1.01	56.4
18	12.32	37.8	27.75	67.1	6.32	49.3	0.88	53.7
28	12.31	36.3	27.74	66.0	6.31	49.2	0.80	50.7
Sept. 7	12.34	34.5	27.76	65.0	6.33	49.0	0.80	47.5
17	12.41	32.2	27.82	64.1	6.39	48.5	0.88	43.8
27	12.51	30.0	27.92	63.6	6.49	47.8	1.02	40.4
Oct. 7	12.65	27.7	28.05	63.4	6.62	46.8	1.25	37.0
17	12.84	25.2	28.22	63.4	6.78	45.6	1.55	33.6
27	13.08	22.7	28.43	63.8	6.98	44.2	1.93	30.4
Nov. 6	13.35	20.2	28.68	64.6	7.23	42.6	2.38	27.5
16	13.65	17.8	28.96	65.8	7.50	40.8	2.89	24.8
26	13.99	15.5	29.26	67.3	7.79	38.8	3.45	22.5
Dec. 6	14.35	13.4	29.58	69.0	8.11	36.7	4.06	20.7
16	14.72	11.5	29.91	71.0	8.43	34.6	4.68	19.4
26	15.08	10.0	30.24	73.2	8.76	32.6	5.31	18.6
36	15.44	8.9	30.55	75.6	9.07	30.7	5.92	18.4
Mittl. Ort	11.40	45.2	26.37	53.9	5.01	59.2	1.77	60.4
	159)		579)		160)		436)	

1902	λ Draconis. 3 ^m .3.		ξ Hydrae. 4 ^m .0.		υ Leonis. 4 ^m .8.		3 Draconis. 5 ^m .3.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. -	AR.	Decl. +
	11 ^h 25 ^m	69° 51'	11 ^h 28 ^m	31° 18'	11 ^h 31 ^m	0° 16'	11 ^h 36 ^m	67° 16'
Jan. 0	36.30 ⁷²	54.6 ¹	12.29 ³⁴	52.3 ²⁵	56.92 ³⁰	64.5 ²⁰	61.32 ⁶⁶	50.2 ⁰
10	37.02 ⁶⁶	54.7 ⁸	12.63 ³⁰	54.8 ²⁸	57.22 ²⁹	66.5 ¹⁹	61.98 ⁶¹	50.2 ⁵
20	37.68 ⁵⁸	55.5 ¹⁴	12.93 ²⁷	57.6 ²⁸	57.51 ²⁵	68.4 ¹⁸	62.59 ⁵⁴	50.7 ¹²
30	38.26 ⁴⁹	56.9 ¹⁹	13.20 ²²	60.4 ²⁸	57.76 ²¹	70.2 ¹⁵	63.13 ⁴⁷	51.9 ¹⁷
Febr. 9	38.75 ³⁸	58.8 ²³	13.42 ¹⁷	63.2 ²⁷	57.97 ¹⁶	71.7 ¹²	63.60 ³⁶	53.6 ²²
19	39.13 ²⁵	61.1 ²⁶	13.59 ¹²	65.9 ²⁷	58.13 ¹²	72.9 ¹⁰	63.96 ²⁶	55.8 ²⁵
März 1	39.38 ¹³	63.7 ²⁹	13.71 ⁸	68.6 ²⁵	58.25 ⁸	73.9 ⁷	64.22 ¹⁴	58.3 ²⁷
11	39.51 ⁰	66.6 ²⁹	13.79 ³	71.1 ²²	58.33 ⁴	74.6 ⁵	64.36 ⁴	61.0 ²⁹
21	39.51 ¹¹	69.5 ²⁹	13.82 ¹	73.3 ²⁰	58.37 ⁰	75.1 ²	64.40 ⁷	63.9 ²⁹
31	39.40 ²³	72.4 ²⁸	13.81 ⁵	75.3 ¹⁷	58.37 ³	75.3 ⁰	64.33 ¹⁷	66.8 ²⁸
April 10	39.17 ³¹	75.2 ²⁵	13.76 ⁷	77.0 ¹⁵	58.34 ⁵	75.3 ²	64.16 ²⁵	69.6 ²⁶
20	38.86 ⁴⁰	77.7 ²²	13.69 ¹⁰	78.5 ¹¹	58.29 ⁸	75.1 ³	63.91 ³³	72.2 ²³
30	38.46 ⁴⁵	79.9 ¹⁹	13.59 ¹²	79.6 ⁸	58.21 ⁹	74.8 ⁴	63.58 ³⁷	74.5 ¹⁹
Mai 10	38.01 ⁴⁸	81.8 ¹³	13.47 ¹³	80.4 ⁴	58.12 ¹⁰	74.4 ⁶	63.21 ⁴¹	76.4 ¹⁵
20	37.53 ⁵²	83.1 ⁸	13.34 ¹⁴	80.8 ²	58.02 ¹¹	73.8 ⁶	62.80 ⁴⁴	77.9 ¹⁰
30	37.01 ⁵¹	83.9 ³	13.20 ¹⁴	81.0 ²	57.91 ¹¹	73.2 ⁶	62.36 ⁴⁵	78.9 ⁵
Juni 9	36.50 ⁵⁰	84.2 ²	13.06 ¹⁵	80.8 ⁵	57.80 ¹¹	72.6 ⁷	61.91 ⁴⁴	79.4 ⁰
19	36.00 ⁴⁹	84.0 ⁸	12.91 ¹⁴	80.3 ⁸	57.69 ¹¹	71.9 ⁷	61.47 ⁴³	79.4 ⁶
29	35.51 ⁴⁴	83.2 ¹²	12.77 ¹⁴	79.5 ¹⁰	57.58 ¹⁰	71.2 ⁷	61.04 ⁴⁰	78.8 ¹⁰
Juli 9	35.07 ⁴⁰	82.0 ¹⁷	12.63 ¹²	78.5 ¹³	57.48 ⁸	70.5 ⁷	60.64 ³⁷	77.8 ¹⁵
19	34.67 ³⁴	80.3 ²¹	12.51 ¹¹	77.2 ¹⁶	57.40 ⁸	69.8 ⁶	60.27 ³²	76.3 ¹⁹
29	34.33 ²⁷	78.2 ²⁵	12.40 ⁹	75.6 ¹⁷	57.32 ⁶	69.2 ⁶	59.95 ²⁶	74.4 ²⁴
Aug. 8	34.06 ²¹	75.7 ²⁸	12.31 ⁷	73.9 ¹⁸	57.26 ⁴	68.6 ⁴	59.69 ²¹	72.0 ²⁷
18	33.85 ¹³	72.9 ³¹	12.24 ⁴	72.1 ¹⁸	57.22 ²	68.2 ³	59.48 ¹³	69.3 ²⁹
28	33.72 ⁴	69.8 ³³	12.20 ⁰	70.3 ¹⁸	57.20 ⁰	67.9 ²	59.35 ⁷	66.4 ³²
Sept. 7	33.68 ¹³	66.5 ³⁸	12.20 ⁵	68.5 ¹⁹	57.20 ⁴	67.7 ⁰	59.28 ¹	63.2 ³⁴
17	33.74 ¹⁴	62.7 ³⁶	12.25 ⁸	66.6 ¹⁵	57.24 ⁸	67.7 ³	59.29 ¹²	59.8 ³⁹
27	33.88 ²⁴	59.1 ³⁶	12.33 ¹³	65.1 ¹²	57.32 ¹¹	68.0 ⁶	59.41 ¹⁹	55.9 ³⁶
Oct. 7	34.12 ³⁴	55.5 ³⁴	12.46 ¹⁷	63.9 ⁸	57.43 ¹⁵	68.6 ⁸	59.60 ²⁷	52.3 ³⁵
17	34.46 ⁴²	52.1 ³³	12.63 ²²	63.1 ⁵	57.58 ¹⁹	69.4 ¹¹	59.87 ³⁶	48.8 ³³
27	34.88 ⁵²	48.8 ³¹	12.85 ²⁷	62.6 ¹	57.77 ²³	70.5 ¹³	60.23 ⁴⁴	45.5 ³²
Nov. 6	35.40 ⁵⁹	45.7 ²⁸	13.12 ³⁰	62.5 ⁵	58.00 ²⁶	71.8 ¹⁶	60.67 ⁵²	42.3 ²⁹
16	35.99 ⁶⁷	42.9 ²⁴	13.42 ³³	63.0 ⁹	58.26 ²⁹	73.4 ¹⁹	61.19 ⁵⁸	39.4 ²⁵
26	36.66 ⁷¹	40.5 ¹⁸	13.75 ³⁵	63.9 ¹⁴	58.55 ³²	75.3 ²⁰	61.77 ⁶³	36.9 ²¹
Dec. 6	37.37 ⁷⁴	38.7 ¹³	14.10 ³⁶	65.3 ¹⁷	58.87 ³²	77.3 ²⁰	62.40 ⁶⁷	34.8 ¹⁴
16	38.11 ⁷⁵	37.4 ⁸	14.46 ³⁶	67.0 ²¹	59.19 ³²	79.3 ²¹	63.07 ⁶⁸	33.4 ¹⁰
26	38.86 ⁷⁴	36.6 ¹	14.82 ³⁵	69.1 ²⁵	59.51 ³¹	81.4 ²¹	63.75 ⁶⁷	32.4 ⁴
36	39.60	36.5	15.17	71.6	59.82	83.5	64.42	32.0
Mittl. Ort	35.62	79.1	10.83	55.5	55.82	57.6	60.82	74.4
	162)		581)		438)		439)	

1902	γ Ursae maj. 3 ^m .8.		β Leonis. 2 ^m .0.		β Virginis. 3 ^m .3.		γ Ursae maj. 2 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	II ^h 40 ^m	48° 18'	II ^h 44 ^m	15° 6'	II ^h 45 ^m	2° 18'	II ^h 48 ^m	54° 13'
Jan. 0	53.37 ⁴²	60.9 ⁷	4.57 ³²	60.1 ¹⁷	36.38 ³¹	53.7 ²⁰	41.24 ⁴⁷	60.5 ⁶
10	53.79 ³⁹	60.2 ¹	4.89 ³⁰	58.4 ¹⁴	36.69 ²⁹	51.7 ¹⁹	41.71 ⁴⁴	59.9 ¹
20	54.18 ³⁶	60.1 [—]	5.19 ²⁶	57.0 ¹¹	36.98 ²⁶	49.8 ¹⁶	42.15 ⁴⁰	59.8 [—]
30	54.54 ³⁰	60.5 ⁴	5.45 ²³	55.9 ⁸	37.24 ²³	48.2 ¹⁴	42.55 ³⁵	60.3 ¹¹
Febr. 9	54.84 ²⁴	61.4 ¹³	5.68 ¹⁸	55.1 ⁴	37.47 ¹⁸	46.8 ¹¹	42.90 ²⁸	61.4 ¹⁵
19	55.08 ¹⁷	62.7 ¹⁷	5.86 ¹⁴	54.7 ¹	37.65 ¹³	45.7 ⁹	43.18 ²⁰	62.9 ¹⁹
März 1	55.25 ¹¹	64.4 ²¹	6.00 ¹⁰	54.6 [—]	37.78 ¹⁰	44.8 ⁶	43.38 ¹³	64.8 ²³
11	55.36 ⁵	66.5 ²²	6.10 ⁵	54.8 ⁵	37.88 ⁵	44.2 ²	43.51 ⁶	67.1 ²⁴
21	55.41 ¹	68.7 ²⁴	6.15 [—]	55.3 ⁷	37.93 ²	44.0 ¹	43.57 [—]	69.5 ²⁶
31	55.40 ⁷	71.1 ²³	6.16 ³	56.0 ⁹	37.95 ²	43.9 ¹	43.56 ⁷	72.1 ²⁶
April 10	55.33 ¹²	73.4 ²³	6.13 ⁵	56.9 ¹⁰	37.93 ⁴	44.0 ³	43.49 ¹³	74.7 ²⁴
20	55.21 ¹⁵	75.7 ²¹	6.08 ⁸	57.9 ¹⁰	37.89 ⁶	44.3 ⁵	43.36 ¹⁸	77.1 ²³
30	55.06 ¹⁸	77.8 ¹⁸	6.00 ⁹	58.9 ¹⁰	37.83 ⁸	44.8 ⁵	43.18 ²¹	79.4 ²⁰
Mai 10	54.88 ²⁰	79.6 ¹⁵	5.91 ¹¹	59.9 ¹⁰	37.75 ¹⁰	45.3 ⁶	42.97 ²⁴	81.4 ¹⁶
20	54.68 ²²	81.1 ¹²	5.80 ¹¹	60.9 ⁹	37.65 ¹⁰	45.9 ⁷	42.73 ²⁵	83.0 ¹³
30	54.46 ²²	82.3 ⁷	5.69 ¹²	61.8 ⁸	37.55 ¹¹	46.6 ⁷	42.48 ²⁶	84.3 ⁹
Juni 9	54.24 ²¹	83.0 ⁴	5.57 ¹²	62.6 ⁷	37.44 ¹¹	47.3 ⁷	42.22 ²⁶	85.2 ⁴
19	54.03 ²¹	83.4 ⁰	5.45 ¹¹	63.3 ⁶	37.33 ¹⁰	48.0 ⁷	41.96 ²⁶	85.6 ¹
29	53.82 ¹⁹	83.4 ⁵	5.34 ¹¹	63.9 ⁴	37.23 ¹⁰	48.7 ⁶	41.70 ²⁴	85.5 ⁵
Juli 9	53.63 ¹⁸	82.9 ⁸	5.23 ¹⁰	64.3 ²	37.13 ¹⁰	49.3 ⁶	41.46 ²²	85.0 ⁹
19	53.45 ¹⁶	82.1 ¹³	5.13 ⁹	64.5 ¹	37.03 ⁸	49.9 ⁵	41.24 ²⁰	84.1 ¹⁴
29	53.29 ¹³	80.8 ¹⁶	5.04 ⁷	64.6 [—]	36.95 ⁷	50.4 ⁵	41.04 ¹⁶	82.7 ¹⁷
Aug. 8	53.16 ¹⁰	79.2 ¹⁹	4.97 ⁶	64.5 ⁴	36.88 ⁵	50.9 ³	40.88 ¹³	81.0 ²¹
18	53.06 ⁶	77.3 ²²	4.91 ³	64.1 ⁵	36.83 ³	51.2 ¹	40.75 ⁹	78.9 ²⁴
28	53.00 ²	75.1 ²⁵	4.88 ¹	63.6 ⁷	36.80 ¹	51.3 ⁰	40.66 ⁵	76.5 ²⁷
Sept. 7	52.98 [—]	72.6 ²⁷	4.87 [—]	62.9 ¹⁰	36.79 [—]	51.3 ²	40.61 ⁰	73.8 ³⁰
17	53.00 ⁸	69.9 ³²	4.90 ³	61.9 ¹³	36.82 ³	51.1 ⁵	40.61 ⁷	70.8 ³⁴
27	53.08 ¹³	66.7 ³⁰	4.97 ⁷	60.6 ¹⁵	36.89 ⁷	50.6 ²⁰	40.68 ¹²	67.4 ³²
Oct. 7	53.21 ¹⁷	63.7 ³¹	5.07 ¹⁰	59.1 ¹⁶	36.99 ¹⁰	49.9 ⁷	40.80 ¹⁹	64.2 ³³
17	53.38 ²⁴	60.6 ³¹	5.20 ¹³	57.5 ¹⁹	37.13 ¹⁴	49.0 ⁹	40.99 ²⁴	60.9 ³³
27	53.62 ²⁸	57.5 ³⁰	5.39 ¹⁹	55.6 ²⁰	37.30 ¹⁷	47.7 ¹³	41.23 ²⁴	57.6 ³³
Nov. 6	53.90 ³³	54.5 ³⁰	5.61 ²²	53.6 ²⁰	37.52 ²²	46.2 ¹⁵	41.53 ³⁰	54.5 ³¹
16	54.23 ³⁸	51.6 ²⁹	5.86 ²⁵	51.4 ²²	37.78 ²⁶	44.6 ¹⁶	41.53 ³⁶	54.5 ³⁰
26	54.61 ⁴¹	49.0 ²⁶	6.15 ²⁹	49.2 ²²	37.88 ²⁸	42.7 ¹⁹	41.89 ⁴⁰	51.5 ²⁷
Dec. 6	55.02 ⁴²	46.7 ²³	6.46 ³¹	47.0 ²²	38.06 ³¹	42.7 ²¹	42.29 ⁴⁵	48.8 ²⁴
16	55.44 ⁴²	44.8 ¹⁹	6.46 ³³	47.0 ²¹	38.37 ³²	40.6 ²¹	42.74 ⁴⁷	46.4 ²⁰
26	55.88 ⁴⁴	43.4 ¹⁴	6.79 ³³	44.9 ²⁰	38.69 ³³	38.5 ²¹	43.21 ⁴⁸	44.4 ¹⁴
36	56.31 ⁴³	42.4 ¹⁰	7.12 ³³	42.9 ¹⁹	39.02 ³²	36.4 ²⁰	43.69 ⁴⁸	43.0 ⁹
Mittl. Ort	52.69	82.0	3.66	71.8	35.38	61.1	40.71	82.5
	163)		164)		165)		166)	

1902	α Virginis. 4 ^m .0.		ε Corvi. 3 ^m .0.		4 H. Draconis. 4 ^m .6.		δ Ursae maj. 3 ^m .4.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	12 ^h 0 ^m	9° 16'	12 ^h 5 ^m	22° 4'	12 ^h 7 ^m	78° 8'	12 ^h 10 ^m	57° 33'
Jan. 0	13.89 ³²	28.8 ¹⁹	6.11 ³³	27.8 ²³	35.92 ¹¹⁵	74.6 ¹	34.95 ⁵¹	75.1 ⁸
10	14.21 ³⁰	26.9 ¹⁷	6.44 ³²	30.1 ²³	37.07 ¹¹²	74.5 [—]	35.46 ⁴⁹	74.3 ¹
20	14.51 ²⁷	25.2 ¹⁴	6.76 ²⁸	32.4 ²⁴	38.19 ¹⁰²	75.0 ¹¹	35.95 ⁴⁵	74.2 [—]
30	14.78 ²³	23.8 ¹¹	7.04 ²⁴	34.8 ²⁴	39.21 ⁹⁰	76.1 ¹⁸	36.40 ³⁹	74.7 ⁵
Febr. 9	15.01 ²⁰	22.7 ⁷	7.28 ²⁰	37.2 ²³	40.11 ⁷⁴	77.9 ²²	36.79 ³³	75.7 ¹⁰
19	15.21 ¹⁵	22.0 ⁵	7.48 ¹⁶	39.5 ²²	40.85 ⁵⁶	80.1 ²⁶	37.12 ²⁵	77.2 ²⁰
März 1	15.36 ¹¹	21.5 ¹	7.64 ¹²	41.7 ¹⁹	41.41 ³⁷	82.7 ²⁹	37.37 ¹⁷	79.2 ²³
11	15.47 ⁷	21.4 [—]	7.76 ⁸	43.6 ¹⁷	41.78 ¹⁶	85.6 ³¹	37.54 ¹⁰	81.5 ²⁶
21	15.54 ³	21.5 ⁴	7.84 ³	45.3 ¹⁵	41.94 [—]	88.7 ³²	37.64 ³	84.1 ²⁷
31	15.57 ¹	21.9 ⁵	7.87 ⁰	46.8 ¹³	41.90 ²³	91.9 ³¹	37.67 ⁵	86.8 ²⁷
April 10	15.56 ⁴	22.4 ⁷	7.87 ³	48.1 ¹¹	41.67 ⁴¹	95.0 ²⁸	37.62 ¹¹	89.5 ²⁷
20	15.52 ⁵	23.1 ⁸	7.84 ⁵	49.2 ⁸	41.26 ⁵⁷	97.8 ²⁶	37.51 ¹⁷	92.2 ²⁵
30	15.47 ⁸	23.9 ⁹	7.79 ⁸	50.0 ⁵	40.69 ⁶⁹	100.4 ²²	37.34 ²¹	94.7 ²²
Mai 10	15.39 ¹⁰	24.8 ⁹	7.71 ⁹	50.5 ³	40.00 ⁸⁰	102.6 ¹⁷	37.13 ²⁵	96.9 ¹⁸
20	15.29 ¹⁰	25.7 ⁸	7.62 ¹⁰	50.8 ⁰	39.20 ⁸⁸	104.3 ¹³	36.88 ²⁷	98.7 ¹⁴
30	15.19 ¹⁰	26.5 ⁹	7.52 ¹¹	50.8 ²	38.32 ⁹²	105.6 ⁷	36.61 ²⁹	100.1 ¹⁰
Juni 9	15.09 ¹²	27.4 ⁷	7.41 ¹³	50.6 ⁴	37.40 ⁹³	106.3 ²	36.32 ³⁰	101.1 ⁶
19	14.97 ¹¹	28.1 ⁷	7.28 ¹²	50.2 ⁶	36.47 ⁹³	106.5 [—]	36.02 ²⁹	101.7 ¹
29	14.86 ¹¹	28.8 ⁵	7.16 ¹²	49.6 ⁸	35.54 ⁹⁰	106.1 ¹⁰	35.73 ²⁹	101.8 [—]
Juli 9	14.75 ¹⁰	29.3 ⁵	7.04 ¹²	48.8 ¹⁰	34.64 ⁸⁵	105.1 ¹⁵	35.44 ²⁷	101.5 ³
19	14.65 ⁹	29.8 ³	6.92 ¹¹	47.8 ¹²	33.79 ⁷⁷	103.6 ¹⁹	35.17 ²⁴	100.6 ¹³
29	14.56 ⁸	30.1 ¹	6.81 ¹⁰	46.6 ¹²	33.02 ⁶⁸	101.7 ²⁴	34.93 ²²	99.3 ¹⁷
Aug. 8	14.48 ⁷	30.2 ⁰	6.71 ⁸	45.4 ¹³	32.34 ⁵⁷	99.3 ²⁸	34.71 ¹⁹	97.6 ²¹
18	14.41 ⁵	30.2 ²	6.63 ⁷	44.1 ¹⁴	31.77 ⁴⁵	96.5 ³⁰	34.52 ¹⁴	95.5 ²⁵
28	14.36 ²	30.0 ⁴	6.56 ³	42.7 ¹³	31.32 ³³	93.5 ³⁴	34.38 ⁹	93.0 ²⁸
Sept. 7	14.34 [—]	29.6 ⁶	6.53 ⁰	41.4 ¹²	30.99 ¹⁸	90.1 ³⁶	34.29 ⁵	90.2 ³⁰
17	14.35 ²³	29.0 ⁹	6.53 ⁵	40.2 ¹¹	30.81 ²	86.5 ⁴¹	34.24 ²	87.2 ³⁵
27	14.40 ⁸	28.1 ¹¹	6.58 ⁸	39.1 ⁷	30.79 ¹⁵	82.4 ³⁷	34.26 ⁸	83.7 ³⁴
Oct. 7	14.48 ¹³	27.0 ¹³	6.66 ¹³	38.4 ⁵	30.94 ³⁰	78.7 ³⁷	34.34 ¹⁵	80.3 ³⁵
17	14.61 ¹⁶	25.7 ¹⁶	6.79 ¹⁸	37.9 [—]	31.24 ⁴⁷	75.0 ³⁷	34.49 ²²	76.8 ³⁴
27	14.77 ²¹	24.1 ¹⁸	6.97 ²²	37.8 [—]	31.71 ⁶⁴	71.3 ³⁴	34.71 ²⁸	73.4 ³³
Nov. 6	14.98 ²⁴	22.3 ²⁰	7.19 ²⁶	38.0 ⁶	32.35 ⁷⁸	67.9 ³¹	34.99 ³⁵	70.1 ³²
16	15.22 ²⁸	20.3 ²¹	7.45 ²⁹	38.6 ¹⁰	33.13 ⁹¹	64.8 ²⁷	35.34 ⁴¹	66.9 ²⁹
26	15.50 ³⁰	18.2 ²¹	7.74 ³²	39.6 ¹³	34.04 ¹⁰³	62.1 ²⁵	35.75 ⁴⁵	64.0 ²⁶
Dec. 6	15.80 ³²	16.1 ²²	8.06 ³⁴	40.9 ¹⁷	35.07 ¹¹²	59.8 ¹⁷	36.20 ⁴⁹	61.4 ²¹
16	16.12 ³³	13.9 ²¹	8.40 ³⁵	42.6 ²⁰	36.19 ¹¹⁷	58.1 ¹¹	36.69 ⁵¹	59.3 ¹⁶
26	16.45 ³²	11.8 ²⁰	8.75 ³³	44.6 ²³	37.36 ¹¹⁸	57.0 ⁵	37.20 ⁵²	57.7 ¹⁰
36	16.77	9.8	9.08	46.9	38.54	56.5	37.72	56.7
Mittl. Ort	13.04	38.1	4.98	29.5	36.82	99.2	34.76	97.3
	(167)		(582)		(168)		(169)	

1902	γ Virginis. 3 ^m .3.		δ Corvi. 2 ^m .3.		20 Comae. 6 ^m .0.		8 Canum ven. 4 ^m .3.	
	AR.	Decl.	AR.	Decl.	AR.	Decl. +	AR.	Decl. +
	12 ^h 14 ^m	0° 7'	12 ^h 24 ^m	15° 58'	12 ^h 24 ^m	21° 25'	12 ^h 29 ^m	41° 52'
Jan. 0	54.32 ³²	26.0 ²¹	48.54 ³³	12.0 ²²	48.57 ³⁴	67.1 ¹⁷	5.69 ⁴⁰	65.0 ¹³
10	54.64 ³⁰	28.1 ¹⁹	48.87 ³¹	14.2 ²²	48.91 ³²	65.4 ¹⁴	6.09 ³⁸	63.7 ⁸
20	54.94 ²⁸	30.0 ¹⁸	49.18 ²⁹	16.4 ²²	49.23 ³⁰	64.0 ¹⁰	6.47 ³⁵	62.9 ³
30	55.22 ²⁴	31.8 ¹⁵	49.47 ²⁵	18.6 ²¹	49.53 ²⁶	63.0 ⁷	6.82 ³¹	62.6 ²
Febr. 9	55.46 ²⁰	33.3 ¹³	49.72 ²¹	20.7 ²⁰	49.79 ²³	62.3 ²	7.13 ²⁷	62.8 ⁸
19	55.66 ¹⁷	34.6 ¹⁰	49.93 ¹⁸	22.7 ¹⁸	50.02 ¹⁸	62.1 ²	7.40 ²²	63.6 ¹²
März 1	55.83 ¹²	35.6 ⁷	50.11 ¹⁴	24.5 ¹⁶	50.20 ¹³	62.3 ⁵	7.62 ¹⁶	64.8 ¹⁶
11	55.95 ⁸	36.3 ⁴	50.25 ⁹	26.1 ¹⁴	50.33 ¹⁰	62.8 ⁹	7.78 ¹¹	66.4 ¹⁹
21	56.03 ⁵	36.7 ²	50.34 ⁶	27.5 ¹²	50.43 ⁵	63.7 ¹¹	7.89 ⁵	68.3 ²¹
31	56.08 ¹	36.9 ⁰	50.40 ²	28.7 ⁹	50.48 ²	64.8 ¹²	7.94 ¹	70.4 ²³
April 10	56.09 ²	36.9 ²	50.42 ¹	29.6 ⁷	50.50 ²	66.0 ¹⁴	7.95 ⁵	72.7 ²³
20	56.07 ⁴	36.7 ⁴	50.41 ³	30.3 ⁵	50.48 ⁵	67.4 ¹⁵	7.90 ⁸	75.0 ²²
30	56.03 ⁶	36.3 ⁵	50.38 ⁵	30.8 ³	50.43 ⁷	68.9 ¹⁴	7.82 ¹¹	77.2 ²¹
Mai 10	55.97 ⁸	35.8 ⁵	50.33 ⁷	31.1 ¹	50.36 ⁹	70.3 ¹³	7.71 ¹⁴	79.3 ¹⁹
20	55.89 ⁹	35.3 ⁷	50.26 ⁹	31.2 ¹	50.27 ¹⁰	71.6 ¹²	7.57 ¹⁶	81.2 ¹⁶
30	55.80 ¹⁰	34.6 ⁶	50.17 ¹⁰	31.1 ³	50.17 ¹²	72.8 ¹¹	7.41 ¹⁷	82.8 ¹³
Juni 9	55.70 ¹¹	34.0 ⁷	50.07 ¹¹	30.8 ⁵	50.05 ¹²	73.9 ⁹	7.24 ¹⁹	84.1 ⁹
19	55.59 ¹⁰	33.3 ⁸	49.96 ¹²	30.3 ⁶	49.93 ¹³	74.8 ⁷	7.05 ¹⁸	85.0 ⁵
29	55.49 ¹¹	32.5 ⁶	49.84 ¹²	29.7 ⁷	49.80 ¹²	75.5 ⁵	6.87 ¹⁹	85.5 ²
Juli 9	55.38 ¹¹	31.9 ⁷	49.72 ¹¹	29.0 ⁸	49.68 ¹²	76.0 ²	6.68 ¹⁸	85.7 ³
19	55.27 ¹⁰	31.2 ⁶	49.61 ¹²	28.2 ¹⁰	49.56 ¹²	76.2 ⁰	6.50 ¹⁷	85.4 ⁶
29	55.17 ⁹	30.6 ⁵	49.49 ¹⁰	27.2 ¹⁰	49.44 ¹¹	76.2 ³	6.33 ¹⁶	84.8 ¹⁰
Aug. 8	55.08 ⁷	30.1 ⁴	49.39 ⁹	26.2 ¹⁰	49.33 ⁹	75.9 ⁵	6.17 ¹³	83.8 ¹³
18	55.01 ⁶	29.7 ³	49.30 ⁷	25.2 ¹⁰	49.24 ⁷	75.4 ⁸	6.04 ¹¹	82.5 ¹⁷
28	54.95 ⁴	29.4 ¹	49.23 ⁵	24.2 ¹⁰	49.17 ⁵	74.6 ¹⁰	5.93 ⁸	80.8 ²¹
Sept. 7	54.91 ⁰	29.3 ⁰	49.18 ²	23.2 ⁸	49.12 ²	73.6 ¹³	5.85 ⁵	78.7 ²³
17	54.91 ²	29.3 ³	49.16 ²	22.4 ⁷	49.10 ¹	72.3 ¹⁵	5.80 ⁰	76.4 ²⁵
27	54.93 ⁸	29.6 ⁶	49.18 ⁷	21.7 ⁵	49.11 ⁶	70.8 ²⁰	5.80 ⁴	73.9 ³¹
Oct. 7	55.01 ¹¹	30.2 ⁸	49.25 ¹⁰	21.2 ³⁰	49.17 ¹⁰	68.8 ²⁰	5.84 ¹⁰	70.8 ³⁰
17	55.12 ¹⁵	31.0 ¹¹	49.35 ¹⁵	21.1 ²	49.27 ¹⁵	66.8 ²²	5.94 ¹⁵	67.8 ³¹
27	55.27 ²⁰	32.1 ¹³	49.50 ²⁰	21.3 ⁴	49.42 ¹⁹	64.6 ²²	6.09 ²⁰	64.7 ³¹
Nov. 6	55.47 ²³	33.4 ¹⁵	49.70 ²⁴	21.7 ⁸	49.61 ²³	62.2 ²⁴	6.29 ²⁶	61.6 ³⁰
16	55.70 ²⁷	34.9 ¹⁸	49.94 ²⁸	22.5 ¹²	49.84 ²⁶	59.8 ²⁵	6.55 ³⁰	58.6 ²⁹
26	55.97 ³⁰	36.7 ²⁰	50.22 ³⁰	23.7 ¹⁵	50.10 ³⁰	57.3 ²⁵	6.85 ³⁴	55.7 ²⁷
Dec. 6	56.27 ³¹	38.7 ²¹	50.52 ³²	25.2 ¹⁷	50.40 ³³	54.8 ²³	7.19 ³⁷	53.0 ²⁴
16	56.58 ³³	40.8 ²¹	50.84 ³⁴	26.9 ¹⁹	50.73 ³⁴	52.5 ²¹	7.56 ³⁹	50.6 ²¹
26	56.91 ³²	42.9 ²¹	51.18 ³³	28.8 ²¹	51.07 ³⁴	50.4 ¹⁹	7.95 ³⁹	48.5 ¹⁶
36	57.23	45.0	51.51	30.9	51.41	48.5	8.34	46.9
Mittl. Ort	53.47	20.5	47.59	12.4	47.99	79.7	5.40	83.4
	170)		584)		443)		445)	

1902	β Corvi. 2 ^m .3.		α Draconis. 3 ^m .3.		24 Comae seq. 5 ^m .2.		76 Ursae maj. 6 ^m .0.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	12 ^h 29 ^m	22° 51'	12 ^h 29 ^m	70° 19'	12 ^h 30 ^m	18° 54'	12 ^h 37 ^m	63° 14'
Jan. 0	15.15 ³⁵	15.1 ²²	17.37 ⁷⁵	18.4 ⁷	13.47 ³³	48.0 ¹⁸	16.78 ⁵⁹	41.4 ¹⁰
10	15.50 ³²	17.3 ²³	18.12 ⁷³	17.7 [—]	13.80 ³²	46.2 ¹⁵	17.37 ⁵⁷	40.4 ³
20	15.82 ²⁹	19.6 ²³	18.85 ⁶⁸	17.8 ⁶	14.12 ³⁰	44.7 ¹²	17.94 ⁵⁴	40.1 [—]
30	16.11 ²⁷	21.9 ²³	19.53 ⁶¹	18.4 ¹³	14.42 ²⁶	43.5 ⁷	18.48 ⁴⁸	40.4 ¹⁰
Febr. 9	16.38 ²³	24.2 ²³	20.14 ⁵²	19.7 ¹⁸	14.68 ²³	42.8 ³	18.96 ⁴²	41.4 ¹⁶
19	16.61 ¹⁸	26.5 ²¹	20.66 ⁴²	21.5 ²³	14.91 ¹⁸	42.5 ⁰	19.38 ³⁴	43.0 ²⁰
März 1	16.79 ¹⁵	28.6 ²⁰	21.08 ³⁰	23.8 ²⁶	15.09 ¹⁵	42.5 ⁴	19.72 ²⁵	45.0 ²⁴
11	16.94 ¹⁰	30.6 ¹⁷	21.88 ¹⁸	26.4 ²⁹	15.24 ¹⁰	42.9 ⁶	19.97 ¹⁷	47.4 ²⁷
21	17.04 ⁶	32.3 ¹⁶	21.56 ⁵	29.3 ³¹	15.34 ⁵	43.5 ¹⁰	20.14 ⁷	50.1 ²⁸
31	17.10 ³	33.9 ¹³	21.61 ⁶	32.4 ³⁰	15.39 ²	44.5 ¹²	20.21 ²	52.9 ³⁰
April 10	17.13 ⁰	35.2 ¹¹	21.55 ¹⁷	35.4 ³⁰	15.41 ¹	45.7 ¹²	20.19 ¹⁰	55.9 ²⁹
20	17.13 ³	36.3 ⁸	21.38 ²⁸	38.4 ²⁷	15.40 ⁴	46.9 ¹⁴	20.09 ¹⁷	58.8 ²⁷
30	17.10 ⁵	37.1 ⁷	21.10 ³⁵	41.1 ²⁴	15.36 ⁶	48.3 ¹³	19.92 ²²	61.5 ²⁵
Mai 10	17.05 ⁸	37.8 ⁴	20.75 ⁴²	43.5 ²¹	15.30 ⁸	49.6 ¹³	19.70 ²⁹	64.0 ²¹
20	16.97 ⁹	38.2 ¹	20.33 ⁴⁸	45.6 ¹⁶	15.22 ¹⁰	50.9 ¹²	19.41 ³²	66.1 ¹⁸
30	16.88 ¹⁰	38.3 ⁰	19.85 ⁵¹	47.2 ¹¹	15.12 ¹¹	52.1 ¹¹	19.09 ³⁵	67.9 ¹³
Juni 9	16.78 ¹²	38.3 ³	19.34 ⁵³	48.3 ⁶	15.01 ¹²	53.2 ⁹	18.74 ³⁷	69.2 ⁸
19	16.66 ¹²	38.0 ⁵	18.81 ⁵³	48.9 ⁰	14.89 ¹²	54.1 ⁷	18.37 ³⁸	70.0 ³
29	16.54 ¹³	37.5 ⁷	18.28 ⁵³	48.9 ⁴	14.77 ¹²	54.8 ⁵	17.99 ³⁷	70.3 ²
Juli 9	16.41 ¹²	36.8 ⁹	17.75 ⁵¹	48.5 ¹⁰	14.65 ¹²	55.3 ³	17.62 ³⁶	70.1 ⁷
19	16.29 ¹²	35.9 ¹⁰	17.24 ⁴⁸	47.5 ¹⁵	14.53 ¹²	55.6 ¹	17.26 ³⁵	69.4 ¹²
29	16.17 ¹²	34.9 ¹²	16.76 ⁴³	46.0 ¹⁹	14.41 ¹¹	55.7 [—]	16.91 ³¹	68.2 ¹⁷
Aug. 8	16.05 ¹⁰	33.7 ¹²	16.33 ³⁸	44.1 ²⁴	14.30 ⁹	55.6 ⁴	16.60 ²⁸	66.5 ²⁰
18	15.95 ⁸	32.5 ¹³	15.95 ³¹	41.7 ²⁸	14.21 ⁸	55.2 ⁷	16.32 ²⁴	64.5 ²⁵
28	15.87 ⁶	31.2 ¹³	15.64 ²⁴	38.9 ³⁰	14.13 ⁵	54.5 ⁹	16.08 ¹⁸	62.0 ²⁹
Sept. 7	15.81 ²	29.9 ¹²	15.40 ¹⁶	35.9 ³⁴	14.08 ²	53.6 ¹¹	15.90 ¹²	59.1 ³¹
17	15.79 [—]	28.7 ¹⁰	15.24 ⁷	32.5 ³⁵	14.06 ⁰	52.5 ¹⁴	15.78 ⁶	56.0 ³¹
27	15.80 ¹	27.7 ⁹	15.17 [—]	29.0 ⁴¹	14.06 ⁶	51.1 ¹⁸	15.72 [—]	52.7 ³³
Oct. 7	15.87 ¹⁰	26.8 ⁶	15.21 ⁴	24.9 ³⁷	14.12 ⁹	49.3 ¹⁹	15.74 ²	48.8 ³⁹
17	15.97 ¹⁶	26.2 ³	15.35 ²⁴	21.2 ³⁷	14.21 ¹⁴	47.4 ²¹	15.84 ¹⁸	45.2 ³⁶
27	16.13 ²⁰	25.9 ¹	15.59 ³⁵	17.5 ³⁵	14.35 ¹⁸	45.3 ²²	16.02 ²⁶	41.6 ³⁶
Nov. 6	16.33 ²⁴	26.0 ⁵	15.94 ⁴⁶	14.0 ³⁴	14.53 ²³	43.1 ²⁴	16.28 ³⁵	38.0 ³⁴
16	16.57 ²⁸	26.5 ⁸	16.40 ⁵⁴	10.6 ³⁰	14.76 ²⁶	40.7 ²⁴	16.63 ⁴²	34.6 ³¹
26	16.85 ³¹	27.3 ¹¹	16.94 ⁶³	7.6 ²⁶	15.02 ²⁹	38.3 ²⁴	17.05 ⁴⁸	31.5 ²⁸
Dec. 6	17.16 ³⁴	28.4 ¹⁶	17.57 ⁶⁹	5.0 ²¹	15.31 ³²	35.9 ²³	17.53 ⁵³	28.7 ²³
16	17.50 ³⁴	30.0 ¹⁹	18.26 ⁷³	2.9 ¹⁶	15.63 ³³	33.6 ²²	18.06 ⁵⁷	26.4 ¹⁸
26	17.84 ³⁴	31.9 ²⁰	18.99 ⁷⁶	1.3 ¹⁰	15.96 ³⁴	31.4 ²⁰	18.63 ⁵⁹	24.6 ¹³
36	18.18	33.9	19.75	0.3	16.30	29.4	19.22	23.3
Mittl. Ort	14.15	18.1	18.03	41.8	12.89	59.6	17.16	63.6
	585)		171)		446)		447)	

1902	ε Ursae maj. 2 ^m .o.		δ Virginis. 3 ^m .o.		12 Can. ven. sq. 2 ^m .g.		8 Draconis. 5 ^m .o.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	12 ^h 49 ^m	56° 28'	12 ^h 50 ^m	3° 55'	12 ^h 51 ^m	38° 50'	12 ^h 51 ^m	65° 57'
Jan. 0	42.86	68.2	40.53	42.1	26.82	34.7	33.96	49.6
10	43.36	66.9	40.86	40.1	27.20	33.1	34.59	48.5
20	43.84	66.3	41.17	38.2	27.57	31.9	35.22	48.1
30	44.30	66.3	41.46	36.6	27.92	31.3	35.81	48.4
Febr. 9	44.72	66.9	41.73	35.2	28.25	31.3	36.35	49.2
19	45.09	68.0	41.96	34.1	28.53	31.8	36.83	50.7
März 1	45.40	69.7	42.15	33.3	28.76	32.7	37.23	52.7
11	45.64	71.9	42.31	32.8	28.94	34.1	37.53	55.1
21	45.80	74.3	42.42	32.6	29.08	35.8	37.74	57.8
31	45.89	77.0	42.50	32.7	29.17	37.8	37.85	60.7
April 10	45.91	79.8	42.55	33.0	29.20	40.0	37.86	63.8
20	45.86	82.6	42.57	33.5	29.19	42.2	37.77	66.8
30	45.76	85.3	42.55	34.1	29.14	44.4	37.61	69.6
Mai 10	45.60	87.8	42.52	34.9	29.05	46.6	37.37	72.2
20	45.40	90.0	42.46	35.7	28.94	48.6	37.07	74.5
30	45.17	91.8	42.39	36.5	28.81	50.3	36.72	76.4
Juni 9	44.91	93.3	42.30	37.3	28.66	51.8	36.33	77.8
19	44.63	94.4	42.20	38.1	28.50	52.9	35.92	78.8
29	44.34	94.9	42.10	38.9	28.32	53.7	35.49	79.2
Juli 9	44.05	95.0	41.98	39.6	28.15	54.0	35.06	79.1
19	43.77	94.6	41.87	40.2	27.97	54.0	34.63	78.5
29	43.50	93.7	41.76	40.7	27.80	53.7	34.23	77.4
Aug. 8	43.24	92.4	41.64	41.1	27.64	52.9	33.85	75.8
18	43.00	90.7	41.54	41.3	27.49	51.8	33.50	73.8
28	42.80	88.5	41.46	41.4	27.36	50.3	33.21	71.3
Sept. 7	42.64	86.0	41.39	41.3	27.26	48.6	32.97	68.5
17	42.53	83.2	41.35	41.1	27.19	46.5	32.79	65.4
27	42.47	80.1	41.34	40.5	27.16	44.1	32.68	62.1
Oct. 7	42.46	76.7	41.36	39.8	27.17	41.5	32.66	58.5
17	42.54	72.9	41.44	38.7	27.25	38.3	32.73	54.5
27	42.67	69.4	41.56	37.4	27.37	35.3	32.88	50.8
Nov. 6	42.88	65.9	41.72	35.9	27.54	32.3	33.13	47.1
16	43.16	62.5	41.93	34.2	27.76	29.2	33.47	43.6
26	43.50	59.3	42.17	32.3	28.03	26.2	33.89	40.4
Dec. 6	43.90	56.4	42.45	30.2	28.34	23.4	34.39	37.5
16	44.35	53.8	42.75	28.1	28.69	20.8	34.95	35.1
26	44.83	51.7	43.07	26.0	29.06	18.5	35.55	33.1
36	45.32	50.2	43.39	23.9	29.44	16.7	36.18	31.7
Mittl. Ort	43.13	88.9	39.94	47.9	26.66	51.4	34.72	71.7
	173)		174)		175)		448)	

1902	ε Virginis. 2 ^m .6.		θ Virginis. 4 ^m .3.		43 Comae. 4 ^m .1.		γ Hydrae. 3 ^m .2.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. -
	12 ^h 57 ^m	11° 28'	13 ^h 4 ^m	5° 0'	13 ^h 7 ^m	28° 21'	13 ^h 13 ^m	22° 39'
Jan. 0	18.39	60.7	53.04	59.3	18.28	76.3	36.14	12.6
10	18.72	58.7	53.37	61.3	18.63	74.4	36.49	14.5
20	19.04	57.0	53.69	63.3	18.97	73.0	36.83	16.5
30	19.33	55.5	53.99	65.2	19.29	72.0	37.15	18.6
Febr. 9	19.60	54.3	54.26	66.9	19.59	71.5	37.44	20.7
19	19.84	53.6	54.50	68.3	19.86	71.4	37.70	22.8
März 1	20.05	53.2	54.71	69.5	20.09	71.8	37.93	24.8
11	20.21	53.1	54.88	70.5	20.27	72.7	38.12	26.6
21	20.33	53.4	55.01	71.2	20.41	73.9	38.27	28.2
31	20.42	53.9	55.11	71.7	20.51	75.4	38.39	29.7
April 10	20.47	54.7	55.17	71.9	20.56	77.1	38.47	31.0
20	20.49	55.6	55.20	72.0	20.58	78.9	38.51	32.1
30	20.48	56.6	55.21	71.8	20.56	80.8	38.52	32.9
Mai 10	20.45	57.7	55.19	71.5	20.51	82.7	38.51	33.6
20	20.39	58.8	55.15	71.1	20.44	84.5	38.48	34.1
30	20.32	59.9	55.09	70.6	20.35	86.2	38.42	34.4
Juni 9	20.22	61.0	55.01	70.0	20.24	87.7	38.34	34.5
19	20.12	61.9	54.92	69.4	20.11	88.9	38.25	34.3
29	20.01	62.8	54.82	68.7	19.97	89.8	38.14	34.0
Juli 9	19.90	63.5	54.71	68.0	19.82	90.5	38.01	33.5
19	19.78	64.0	54.60	67.4	19.67	90.9	37.88	32.8
29	19.65	64.4	54.48	66.7	19.52	90.9	37.74	32.0
Aug. 8	19.54	64.5	54.36	66.1	19.38	90.6	37.61	31.1
18	19.43	64.5	54.25	65.5	19.24	90.1	37.49	30.1
28	19.34	64.3	54.16	65.0	19.12	89.1	37.37	29.0
Sept. 7	19.26	63.8	54.08	64.7	19.02	87.9	37.28	27.9
17	19.21	63.1	54.02	64.5	18.95	86.4	37.21	26.8
27	19.20	62.2	54.00	64.4	18.91	84.6	37.18	25.8
Oct. 7	19.22	61.0	54.02	64.6	18.91	82.5	37.19	24.9
17	19.29	59.4	54.09	65.1	18.96	79.9	37.25	24.2
27	19.39	57.7	54.19	65.8	19.05	77.4	37.36	23.8
Nov. 6	19.55	55.8	54.34	66.8	19.20	74.8	37.52	23.8
16	19.75	53.8	54.54	68.1	19.39	72.0	37.73	24.0
26	19.99	51.6	54.78	69.6	19.63	69.2	37.98	24.6
Dec. 6	20.26	49.3	55.05	71.3	19.91	66.5	38.27	25.6
16	20.56	47.0	55.35	73.1	20.22	63.9	38.59	26.8
26	20.88	44.8	55.67	75.1	20.55	61.6	38.92	28.4
36	21.20	42.7	56.00	77.2	20.90	59.6	39.27	30.2
Mittl. Ort	17.91	68.8	52.44	57.3	18.07	89.5	35.41	17.0
	176)		449)		177)		586)	

1902	ζ Urs. maj. pr. 2 ^m . I.		α Virginis. 1 ^m .		Gr. 2001. 5 ^m . 7.		69 H. Urs. maj. 5 ^m . 3.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	13 ^h 19 ^m	55° 25'	13 ^h 20 ^m	10° 38'	13 ^h 23 ^m	72° 53'	13 ^h 24 ^m	60° 26'
Jan. 0	58.25 ⁴⁸	54.2 ¹⁶	2.26 ³³	59.3 ²⁰	35.84 ⁸²	39.9 ¹⁴	50.54 ⁵³	46.1 ¹⁶
10	58.73 ⁴⁸	52.6 ¹⁰	2.59 ³²	61.3 ²⁰	36.66 ⁸³	38.5 ⁶	51.07 ⁵³	44.5 ⁹
20	59.21 ⁴⁶	51.6 ⁴	2.91 ³¹	63.3 ¹⁹	37.49 ⁸¹	37.9 ¹	51.60 ⁵²	43.6 ³
30	59.67 ⁴⁴	51.2 ³	3.22 ²⁹	65.2 ¹⁸	38.30 ⁷⁷	38.0 ⁶	52.12 ⁴⁹	43.3 ³
Febr. 9	60.11 ³⁹	51.5 ⁸	3.51 ²⁵	67.0 ¹⁶	39.07 ⁶⁹	38.6 ¹³	52.61 ⁴⁴	43.6 ⁹
19	60.50 ³³	52.3 ¹⁴	3.76 ²²	68.6 ¹⁵	39.76 ⁶⁰	39.9 ¹⁹	53.05 ³⁸	44.5 ¹⁶
März 1	60.83 ²⁷	53.7 ¹⁹	3.98 ¹⁹	70.1 ¹²	40.36 ⁴⁹	41.8 ²⁴	53.43 ³²	46.1 ²⁰
11	61.10 ²¹	55.6 ²³	4.17 ¹⁵	71.3 ¹⁰	40.85 ³⁶	44.2 ²⁷	53.75 ²⁴	48.1 ²⁴
21	61.31 ¹⁵	57.9 ²⁶	4.32 ¹¹	72.3 ⁸	41.21 ²²	46.9 ³⁰	53.99 ¹⁶	50.5 ²⁸
31	61.46 ⁷	60.5 ²⁸	4.43 ⁸	73.1 ⁵	41.43 ⁹	49.9 ³¹	54.15 ⁸	53.3 ²⁹
April 10	61.53 ⁰	63.3 ²⁹	4.51 ⁵	73.6 ⁴	41.52 ⁴	53.0 ³¹	54.23 ¹	56.2 ²⁹
20	61.53 ⁵	66.2 ²⁸	4.56 ²	74.0 ²	41.48 ¹⁶	56.1 ³¹	54.24 ⁷	59.1 ³⁰
30	61.48 ¹¹	69.0 ²⁶	4.58 ⁰	74.2 ⁰	41.32 ²⁸	59.2 ²⁹	54.17 ¹³	62.1 ²⁸
Mai 10	61.37 ¹⁶	71.6 ²⁵	4.58 ³	74.2 ²	41.04 ³⁸	62.1 ²⁵	54.04 ¹⁹	64.9 ²⁵
20	61.21 ¹⁹	74.1 ²²	4.55 ⁵	74.0 ³	40.66 ⁴⁷	64.6 ²²	53.85 ²³	67.4 ²²
30	61.02 ²³	76.3 ¹⁸	4.50 ⁷	73.7 ³	40.19 ⁵³	66.8 ¹⁸	53.62 ²⁸	69.6 ¹⁹
Juni 9	60.79 ²⁶	78.1 ¹⁴	4.43 ⁸	73.4 ⁵	39.66 ⁵⁹	68.6 ¹²	53.34 ³¹	71.5 ¹⁴
19	60.53 ²⁷	79.5 ⁹	4.35 ¹⁰	72.9 ⁵	39.07 ⁶³	69.8 ⁸	53.03 ³³	72.9 ⁹
29	60.26 ²⁸	80.4 ⁵	4.25 ¹¹	72.4 ⁷	38.44 ⁶⁵	70.6 ²	52.70 ³⁴	73.8 ⁵
Juli 9	59.98 ²⁹	80.9 ¹	4.14 ¹²	71.7 ⁷	37.79 ⁶⁵	70.8 ⁴	52.36 ³⁵	74.3 ¹
19	59.69 ²⁹	80.8 ⁵	4.02 ¹²	71.0 ⁷	37.14 ⁶⁴	70.4 ⁸	52.01 ³⁵	74.2 ⁵
29	59.40 ²⁸	80.3 ⁹	3.90 ¹³	70.3 ⁷	36.50 ⁶²	69.6 ¹⁴	51.66 ³⁴	73.7 ¹¹
Aug. 8	59.12 ²⁶	79.4 ¹⁴	3.77 ¹²	69.6 ⁷	35.88 ⁵⁸	68.2 ¹⁹	51.32 ³¹	72.6 ¹⁵
18	58.86 ²³	78.0 ¹⁹	3.65 ¹⁰	68.9 ⁷	35.30 ⁵²	66.3 ²³	51.01 ²⁹	71.1 ²⁰
28	58.63 ²¹	76.1 ²³	3.55 ⁹	68.2 ⁶	34.78 ⁴⁵	64.0 ²⁶	50.72 ²⁵	69.1 ²³
Sept. 7	58.42 ¹⁶	73.8 ²⁶	3.46 ⁷	67.6 ⁵	34.33 ³⁸	61.4 ³¹	50.47 ²¹	66.8 ²⁸
17	58.26 ¹¹	71.2 ²⁹	3.39 ⁴	67.1 ³	33.95 ²⁸	58.3 ³⁴	50.26 ¹⁵	64.0 ³⁰
27	58.15 ⁶	68.3 ³³	3.35 ⁰	66.8 ¹	33.67 ¹⁸	54.9 ³⁶	50.11 ⁹	61.0 ³⁴
Oct. 7	58.09 ¹	65.0 ³⁷	3.35 ⁵	66.7 ¹	33.49 ⁶	51.3 ⁴¹	50.02 ¹	57.6 ³⁹
17	58.10 ⁸	61.3 ³⁵	3.40 ¹⁰	66.8 ³	33.43 ⁸	47.2 ³⁸	50.01 ⁷	53.7 ³⁶
27	58.18 ¹⁵	57.8 ³⁶	3.50 ¹⁴	67.1 ⁶	33.51 ²⁰	43.4 ³⁸	50.08 ¹⁵	50.1 ³⁷
Nov. 6	58.33 ²²	54.2 ³⁵	3.64 ¹⁹	67.7 ⁹	33.71 ³³	39.6 ³⁶	50.23 ²³	46.4 ³⁶
16	58.55 ²⁹	50.7 ³⁴	3.83 ²³	68.6 ¹²	34.04 ⁴⁵	36.0 ³⁴	50.46 ³¹	42.8 ³⁵
26	58.84 ³⁵	47.3 ³²	4.06 ²⁷	69.8 ¹⁴	34.49 ⁵⁶	32.6 ³²	50.77 ³⁸	39.3 ³²
Dec. 6	59.19 ⁴¹	44.1 ²⁸	4.33 ²⁹	71.2 ¹⁷	35.05 ⁶⁶	29.4 ²⁷	51.15 ⁴⁴	36.1 ²⁸
16	59.60 ⁴⁴	41.3 ²⁴	4.62 ³²	72.9 ¹⁸	35.71 ⁷⁵	26.7 ²²	51.59 ⁴⁹	33.3 ²⁴
26	60.04 ⁴⁷	38.9 ¹⁹	4.94 ³³	74.7 ¹⁹	36.46 ⁸⁰	24.5 ¹⁶	52.08 ⁵²	30.9 ¹⁹
36	60.51	37.0	5.27	76.6	37.26	22.9	52.60	29.0
Mittl. Ort	58.83	73.4	1.69	59.8	37.96	61.1	51.43	65.8
	178)		587)		452)		453)	

1902	ζ Virginis. 3 ^m .3.		ι7 H.Can.ven. 5 ^m .5.		τ Bootis. 4 ^m .6.		η Ursae maj. 2 ^m .0.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.	AR.	Decl.
	13 ^h 29 ^m	0° 5'	13 ^h 30 ^m	37° 40'	13 ^h 42 ^m	17° 56'	13 ^h 43 ^m	49° 47'
Jan. 0	42.30 ³²	44.4 ²⁰	25.08 ³⁸	48.8 ²⁰	36.44 ³³	33.8 ²¹	40.26 ⁴²	51.3 ¹⁹
10	42.62 ³²	46.4 ²⁰	25.46 ³⁷	46.8 ¹⁴	36.77 ³²	31.7 ¹⁸	40.68 ⁴²	49.4 ¹⁴
20	42.94 ³⁰	48.4 ¹⁷	25.83 ³⁵	45.4 ¹⁰	37.09 ³²	29.9 ¹⁵	41.11 ⁴³	48.0 ⁸
30	43.24 ²⁹	50.1 ¹⁵	26.18 ³⁴	44.4 ⁴	37.41 ³⁰	28.4 ¹⁰	41.53 ⁴⁰	47.2 ¹
Febr. 9	43.53 ²⁶	51.6 ¹³	26.52 ³¹	44.0 ¹	37.71 ²⁷	27.4 ⁷	41.93 ³⁷	47.1 ⁴
19	43.79 ²²	52.9 ¹⁰	26.83 ²⁷	44.1 ⁷	37.98 ²⁴	26.7 ²	42.30 ³³	47.5 ¹⁰
März 1	44.01 ¹⁹	53.9 ⁶	27.10 ²²	44.8 ¹¹	38.22 ²¹	26.5 ²	42.63 ²⁷	48.5 ¹⁵
11	44.20 ¹⁵	54.5 ⁴	27.32 ¹⁷	45.9 ¹⁶	38.43 ¹⁷	26.7 ⁶	42.90 ²²	50.0 ²⁰
21	44.35 ¹²	54.9 ²	27.49 ¹³	47.5 ¹⁹	38.60 ¹³	27.3 ⁹	43.12 ¹⁶	52.0 ²³
31	44.47 ⁹	55.1 ¹	27.62 ⁹	49.4 ²¹	38.73 ⁹	28.2 ¹¹	43.28 ¹¹	54.3 ²⁶
April 10	44.56 ⁵	55.0 ³	27.71 ³	51.5 ²²	38.82 ⁶	29.3 ¹⁴	43.39 ⁵	56.9 ²⁸
20	44.61 ³	54.7 ⁵	27.74 ⁰	53.7 ²⁴	38.88 ³	30.7 ¹⁴	43.44 ¹	59.7 ²⁸
30	44.64 ⁰	54.2 ⁶	27.74 ³	56.1 ²³	38.91 ⁰	32.1 ¹⁶	43.43 ⁵	62.5 ²⁷
Mai 10	44.64 ²	53.6 ⁶	27.71 ⁸	58.4 ²²	38.91 ³	33.7 ¹⁶	43.38 ¹⁰	65.2 ²⁵
20	44.62 ⁵	53.0 ⁸	27.63 ¹⁰	60.6 ²⁰	38.88 ⁵	35.3 ¹⁵	43.28 ¹⁴	67.7 ²³
30	44.57 ⁶	52.2 ⁸	27.53 ¹²	62.6 ¹⁸	38.83 ⁷	36.8 ¹⁴	43.14 ¹⁷	70.0 ²⁰
Juni 9	44.51 ⁸	51.4 ⁷	27.41 ¹⁴	64.4 ¹⁵	38.76 ⁹	38.2 ¹²	42.97 ¹⁹	72.0 ¹⁷
19	44.43 ¹⁰	50.7 ⁸	27.27 ¹⁶	65.9 ¹¹	38.67 ¹¹	39.4 ¹¹	42.78 ²²	73.7 ¹³
29	44.33 ¹¹	49.9 ⁷	27.11 ¹⁸	67.0 ⁷	38.56 ¹²	40.5 ⁹	42.56 ²⁴	75.0 ⁸
Juli 9	44.22 ¹¹	49.2 ⁷	26.93 ¹⁸	67.7 ⁴	38.44 ¹⁴	41.4 ⁷	42.32 ²⁵	75.8 ³
19	44.11 ¹²	48.5 ⁶	26.75 ¹⁹	68.1 ⁰	38.30 ¹⁴	42.1 ⁴	42.07 ²⁵	76.1 ¹
29	43.99 ¹³	47.9 ⁵	26.56 ¹⁸	68.1 ⁴	38.16 ¹⁴	42.5 ²	41.82 ²⁵	76.0 ⁶
Aug. 8	43.86 ¹²	47.4 ⁴	26.38 ¹⁷	67.7 ⁸	38.02 ¹⁴	42.7 ¹	41.57 ²⁴	75.4 ¹⁰
18	43.74 ¹²	47.0 ³	26.21 ¹⁶	66.9 ¹¹	37.88 ¹³	42.6 ⁴	41.33 ²³	74.4 ¹⁵
28	43.62 ¹⁰	46.7 ¹	26.05 ¹⁴	65.8 ¹⁵	37.75 ¹²	42.2 ⁶	41.10 ²⁰	72.9 ¹⁹
Sept. 7	43.52 ⁷	46.6 ⁰	25.91 ¹¹	64.3 ¹⁹	37.63 ⁹	41.6 ¹⁰	40.90 ¹⁷	71.0 ²²
17	43.45 ⁴	46.6 ²	25.80 ⁸	62.4 ²²	37.54 ⁷	40.6 ¹²	40.73 ¹³	68.8 ²⁶
27	43.41 ¹	46.8 ⁵	25.72 ⁴	60.2 ²⁵	37.47 ³	39.4 ¹⁴	40.60 ⁸	66.2 ²⁹
Oct. 7	43.40 ³	47.3 ⁷	25.68 ¹	57.7 ²⁷	37.44 ¹	38.0 ¹⁸	40.52 ³	63.3 ³²
17	43.43 ¹⁸	48.0 ¹¹	25.69 ¹⁸	55.0 ³³	37.45 ²¹	36.2 ²²	40.49 ⁴	60.1 ³⁷
27	43.51 ¹³	49.1 ¹²	25.77 ¹²	51.7 ³¹	37.51 ¹¹	34.0 ²²	40.53 ¹¹	56.4 ³⁵
Nov. 6	43.64 ¹⁷	50.3 ¹⁵	25.89 ¹⁷	48.6 ³¹	37.62 ¹⁵	31.8 ²³	40.64 ¹⁷	52.9 ³⁵
16	43.81 ²²	51.8 ¹⁶	26.06 ²³	45.5 ³¹	37.77 ²¹	29.5 ²⁵	40.81 ²³	49.4 ³⁴
26	44.03 ²⁵	53.4 ¹⁹	26.29 ²⁸	42.4 ³¹	37.98 ²⁴	27.0 ²⁶	41.04 ²⁹	46.0 ³³
Dec. 6	44.28 ²⁹	55.3 ²⁰	26.57 ³¹	39.3 ²⁸	38.22 ²⁸	24.4 ²⁵	41.33 ³⁴	42.7 ³⁰
16	44.57 ³¹	57.3 ²⁰	26.88 ³⁴	36.5 ²⁶	38.50 ³⁰	21.9 ²⁴	41.67 ³⁹	39.7 ²⁷
26	44.88 ³¹	59.3 ²¹	27.22 ³⁷	33.9 ²¹	38.80 ³²	19.5 ²²	42.06 ⁴¹	37.0 ²²
36	45.19	61.4	27.59	31.8	39.12	17.3	42.47	34.8
Mittl. Ort	41.89	41.6	25.22	63.5	36.32	42.2	40.85	68.1
	179)		454)		180)		181)	

1902	89 Virginis. 5 ^m .o.		η Bootis. 3 ^m .o.		τ Virginis. 4 ^m .o.		II Bootis. 6 ^m .o.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	13 ^h 44 ^m	17° 38'	13 ^h 50 ^m	18° 52'	13 ^h 56 ^m	2° 0'	13 ^h 56 ^m	27° 51'
Jan. 0	33.16	43.1	1.18	71.9	39.68	63.7	43.77	24.7
10	33.50	44.9	1.50	69.8	40.00	61.6	44.11	22.5
20	33.83	46.8	1.83	67.9	40.32	59.7	44.45	20.7
30	34.15	48.7	2.15	66.4	40.63	58.0	44.79	19.4
Febr. 9	34.46	50.5	2.45	65.4	40.93	56.6	45.11	18.5
19	34.74	52.3	2.73	64.7	41.20	55.4	45.40	18.1
März 1	34.98	54.0	2.98	64.5	41.45	54.5	45.66	18.2
11	35.19	55.5	3.19	64.7	41.66	53.9	45.89	18.8
21	35.37	56.8	3.37	65.3	41.84	53.6	46.08	19.8
31	35.51	57.9	3.51	66.2	41.98	53.6	46.23	21.2
April 10	35.62	58.8	3.61	67.4	42.10	53.8	46.34	22.9
20	35.70	59.6	3.68	68.8	42.18	54.3	46.41	24.7
30	35.75	60.1	3.72	70.3	42.23	54.9	46.45	26.7
Mai 10	35.77	60.5	3.72	71.9	42.26	55.7	46.45	28.8
20	35.76	60.7	3.70	73.5	42.26	56.5	46.43	30.8
30	35.73	60.8	3.66	75.1	42.23	57.4	46.37	32.7
Juni 9	35.68	60.7	3.59	76.6	42.18	58.3	46.29	34.4
19	35.60	60.5	3.50	77.9	42.12	59.2	46.19	36.0
29	35.51	60.2	3.39	79.0	42.03	60.0	46.07	37.3
Juli 9	35.40	59.7	3.27	79.9	41.93	60.8	45.93	38.3
19	35.27	59.2	3.14	80.6	41.81	61.5	45.78	39.0
29	35.14	58.5	3.00	81.0	41.68	62.1	45.62	39.4
Aug. 8	35.00	57.7	2.85	81.2	41.55	62.6	45.45	39.4
18	34.87	56.9	2.70	81.1	41.42	63.0	45.29	39.1
28	34.74	56.1	2.57	80.7	41.29	63.2	45.13	38.5
Sept. 7	34.63	55.3	2.45	80.1	41.17	63.3	44.99	37.5
17	34.54	54.5	2.34	79.1	41.08	63.2	44.87	36.2
27	34.48	53.8	2.27	77.9	41.01	62.8	44.78	34.5
Oct. 7	34.45	53.3	2.23	76.4	40.97	62.2	44.72	32.6
17	34.48	52.9	2.23	74.6	40.97	61.4	44.71	30.4
27	34.56	52.7	2.29	72.4	41.03	60.3	44.75	27.7
Nov. 6	34.68	52.9	2.39	70.1	41.13	59.0	44.84	25.0
16	34.85	53.3	2.54	67.7	41.27	57.5	44.98	22.2
26	35.07	54.0	2.73	65.2	41.46	55.7	45.17	19.3
Dec. 6	35.33	55.0	2.97	62.6	41.70	53.8	45.41	16.4
16	35.62	56.3	3.24	60.0	41.97	51.8	45.69	13.7
26	35.94	57.8	3.54	57.6	42.26	49.7	45.99	11.1
36	36.27	59.5	3.86	55.3	42.58	47.7	46.32	8.7
Mittl. Ort	32.67	46.8	1.11	80.2	39.45	66.1	43.89	35.3
	588)		182)		183)		457)	

1902	α Draconis. 3 ^m .3.		δ Bootis. 5 ^m .0.		ζ Virginis. 4 ^m .3.		4 Ursae min. 5 ^m .0.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +
	14 ^h 1 ^m	64° 50'	14 ^h 5 ^m	25° 32'	14 ^h 7 ^m	9° 49'	14 ^h 9 ^m	77° 59'
Jan. 0	42.41	20.8	55.65	70.6	40.29	2.1	8.61	70.5
10	42.98	18.9	55.98	68.3	40.62	4.0	9.64	68.8
20	43.57	17.6	56.32	66.5	40.94	5.8	10.74	67.6
30	44.17	17.0	56.65	65.1	41.26	7.5	11.86	67.2
Febr. 9	44.74	17.0	56.97	64.1	41.56	9.2	12.96	67.4
19	45.28	17.7	57.26	63.6	41.84	10.7	14.00	68.2
März 1	45.77	18.9	57.53	63.6	42.10	12.0	14.94	69.7
11	46.18	20.8	57.76	64.0	42.32	13.1	15.76	71.8
21	46.52	23.1	57.96	64.9	42.51	13.9	16.42	74.3
31	46.78	25.8	58.12	66.1	42.67	14.5	16.91	77.1
April 10	46.94	28.8	58.24	67.6	42.80	14.9	17.22	80.2
20	47.01	31.9	58.32	69.4	42.90	15.2	17.34	83.4
30	47.00	35.0	58.37	71.3	42.97	15.2	17.27	86.6
Mai 10	46.91	38.0	58.38	73.3	43.01	15.1	17.02	89.7
20	46.74	40.9	58.37	75.3	43.02	14.9	16.61	92.6
30	46.51	43.5	58.33	77.1	43.01	14.5	16.04	95.2
Juni 9	46.21	45.7	58.26	78.9	42.98	14.1	15.35	97.4
19	45.87	47.5	58.16	80.5	42.92	13.6	14.55	99.1
29	45.49	48.8	58.05	81.8	42.84	13.1	13.66	100.4
Juli 9	45.07	49.7	57.92	82.8	42.74	12.5	12.72	101.1
19	44.64	50.0	57.77	83.6	42.62	11.9	11.73	101.3
29	44.20	49.9	57.62	84.1	42.49	11.3	10.73	101.0
Aug. 8	43.76	49.2	57.46	84.2	42.36	10.6	9.73	100.1
18	43.33	48.0	57.30	84.0	42.22	10.0	8.76	98.7
28	42.93	46.3	57.14	83.5	42.09	9.5	7.85	96.8
Sept. 7	42.56	44.1	56.99	82.7	41.97	9.0	7.01	94.5
17	42.23	41.6	56.87	81.5	41.86	8.6	6.26	91.8
27	41.97	38.7	56.77	80.0	41.78	8.3	5.63	88.8
Oct. 7	41.77	35.4	56.71	78.2	41.74	8.2	5.14	85.4
17	41.65	31.9	56.69	76.1	41.73	8.3	4.79	81.8
27	41.62	27.9	56.71	73.8	41.77	8.6	4.61	78.0
Nov. 6	41.69	24.1	56.80	71.0	41.88	9.2	4.62	73.8
16	41.85	20.4	56.93	68.3	42.02	10.0	4.83	70.0
26	42.11	16.7	57.11	65.5	42.21	11.0	5.22	66.4
Dec. 6	42.46	13.3	57.34	62.6	42.45	12.3	5.78	63.0
16	42.89	10.1	57.60	59.9	42.71	13.8	6.51	60.0
26	43.39	7.4	57.90	57.3	43.01	15.5	7.39	57.4
36	43.94	5.2	58.23	54.9	43.33	17.3	8.39	55.3
Mittl. Ort	44.12	38.9	55.79	80.1	40.00	4.0	13.26	89.1
	184)		458)		185)		459)	

1902	♄ Virginis. 4 ^m .o.		♌ Bootis. 1 ^m .		♌ Bootis. 4 ^m .o.		♄ Bootis. 3 ^m .8.	
	AR.	Decl.	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	14 ^h 10 ^m	5° 31'	14 ^h 11 ^m	19° 41'	14 ^h 12 ^m	46° 31'	14 ^h 21 ^m	52° 17'
Jan. 0	52.62	58.6	11.36	25.8	38.77	62.8	50.58	58.2
10	52.95	60.5	11.68	24.6	39.16	60.5	51.00	55.9
20	53.27	62.4	12.01	21.6	39.56	58.8	51.43	54.1
30	53.58	64.1	12.33	20.0	39.96	57.7	51.87	52.9
Febr. 9	53.88	65.7	12.63	18.8	40.35	57.1	52.30	52.4
19	54.16	67.1	12.92	18.0	40.72	57.2	52.71	52.5
März 1	54.42	68.3	13.18	17.7	41.05	57.9	53.08	53.3
11	54.64	69.2	13.41	17.8	41.34	59.1	53.41	54.6
21	54.83	69.9	13.60	18.4	41.58	60.8	53.69	56.4
31	55.00	70.3	13.76	19.3	41.78	62.9	53.92	58.7
April 10	55.13	70.4	13.88	20.5	41.92	65.3	54.07	61.2
20	55.23	70.4	13.97	21.9	42.01	68.0	54.17	64.0
30	55.30	70.2	14.02	23.5	42.05	70.8	54.22	66.9
Mai 10	55.34	69.8	14.05	25.2	42.04	73.5	54.21	69.9
20	55.35	69.4	14.04	26.8	41.99	76.2	54.15	72.7
30	55.34	68.9	14.01	28.5	41.89	78.7	54.05	75.3
Juni 9	55.31	68.3	13.95	30.0	41.77	80.9	53.90	77.7
19	55.25	67.6	13.87	31.4	41.61	82.8	53.71	79.7
29	55.17	67.0	13.77	32.6	41.42	84.3	53.49	81.3
Juli 9	55.07	66.3	13.65	33.6	41.21	85.5	53.24	82.5
19	54.96	65.7	13.51	34.4	40.98	86.2	52.97	83.3
29	54.83	65.1	13.37	34.9	40.74	86.5	52.69	83.6
Aug. 8	54.70	64.5	13.21	35.1	40.50	86.3	52.40	83.4
18	54.56	64.0	13.05	35.1	40.26	85.7	52.11	82.7
28	54.42	63.6	12.90	34.7	40.02	84.6	51.83	81.5
Sept. 7	54.30	63.2	12.76	34.1	39.81	83.1	51.57	79.9
17	54.19	63.0	12.64	33.1	39.62	81.2	51.33	77.9
27	54.11	63.0	12.54	31.9	39.46	78.9	51.13	75.5
Oct. 7	54.07	63.1	12.48	30.4	39.34	76.2	50.98	72.7
17	54.06	63.5	12.46	28.5	39.28	73.3	50.89	69.6
27	54.10	64.1	12.48	26.4	39.27	70.1	50.85	66.2
Nov. 6	54.19	65.0	12.56	23.9	39.34	66.4	50.89	62.3
16	54.33	66.0	12.68	21.4	39.46	62.9	51.00	58.7
26	54.51	67.3	12.86	18.8	39.64	59.5	51.18	55.1
Dec. 6	54.74	68.9	13.07	16.1	39.89	56.1	51.43	51.6
16	55.01	70.6	13.33	13.4	40.19	52.9	51.74	48.4
26	55.30	72.4	13.62	10.8	40.53	50.1	52.10	45.4
36	55.61	74.3	13.93	8.5	40.91	47.6	52.49	42.8
Mittl. Ort	52.39	59.2	11.43	33.3	39.48	77.1	51.61	72.9
	186)		187)		188)		190)	

1902	ρ Bootis. 3 ^m .6.		γ Bootis. 2 ^m .9.		π Bootis pr. 4 ^m .3.		μ Virginis. 4 ^m .0.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	14 ^h 27 ^m	30° 47'	14 ^h 28 ^m	38° 43'	14 ^h 36 ^m	16° 49'	14 ^h 37 ^m	5° 13'
Jan. 0	36.03 ³³	55.5 ²⁴	7.34 ³⁵	60.5 ²³	7.00 ³¹	71.1 ²³	53.71 ³¹	55.0 ¹⁸
10	36.36 ³⁴	53.1 ¹⁹	7.69 ³⁶	58.2 ²⁰	7.31 ³²	68.8 ²⁰	54.02 ³²	56.8 ¹⁸
20	36.70 ³⁴	51.2 ¹⁵	8.05 ³⁷	56.2 ¹⁴	7.63 ³²	66.8 ¹⁶	54.34 ³²	58.6 ¹⁷
30	37.04 ³³	49.7 ¹⁰	8.42 ³⁶	54.8 ⁹	7.95 ³¹	65.2 ¹³	54.66 ³¹	60.3 ¹⁵
Febr. 9	37.37 ³²	48.7 ⁵	8.78 ³³	53.9 ²	8.26 ³⁰	63.9 ⁹	54.97 ²⁹	61.8 ¹³
19	37.69 ²⁹	48.2 ⁰	9.11 ³¹	53.7 ³	8.56 ²⁷	63.0 ⁴	55.26 ²⁷	63.1 ¹¹
März 1	37.98 ²⁵	48.2 ⁶	9.42 ²⁸	54.0 ⁸	8.83 ²⁴	62.6 ⁰	55.53 ²⁴	64.2 ⁸
11	38.23 ²²	48.8 ¹⁰	9.70 ²³	54.8 ¹³	9.07 ²¹	62.6 ⁴	55.77 ²¹	65.0 ⁶
21	38.45 ¹⁹	49.8 ¹⁵	9.93 ²⁰	56.1 ¹⁸	9.28 ¹⁸	63.0 ⁷	55.98 ¹⁹	65.6 ⁴
31	38.64 ¹⁴	51.3 ¹⁷	10.13 ¹⁵	57.9 ²¹	9.46 ¹⁵	63.7 ¹¹	56.17 ¹⁵	66.0 ¹
April 10	38.78 ¹¹	53.0 ²⁰	10.28 ¹⁰	60.0 ²³	9.61 ¹²	64.8 ¹⁴	56.32 ¹³	66.1 ¹
20	38.89 ⁷	55.0 ²²	10.38 ⁷	62.3 ²⁵	9.73 ⁸	66.2 ¹⁵	56.45 ¹⁰	66.0 ³
30	38.96 ³	57.2 ²³	10.45 ²	64.8 ²⁶	9.81 ⁶	67.7 ¹⁶	56.55 ⁶	65.7 ⁴
Mai 10	38.99 ⁰	59.5 ²²	10.47 ¹	67.4 ²⁶	9.87 ²	69.3 ¹⁷	56.61 ⁴	65.3 ⁵
20	38.99 ⁴	61.7 ²²	10.46 ⁵	70.0 ²⁴	9.89 ¹	71.0 ¹⁷	56.65 ²	64.8 ⁶
30	38.95 ⁶	63.9 ²¹	10.41 ⁸	72.4 ²²	9.88 ³	72.7 ¹⁶	56.67 ²	64.2 ⁷
Juni 9	38.89 ⁹	66.0 ¹⁸	10.33 ¹²	74.6 ²⁰	9.85 ⁶	74.3 ¹⁵	56.65 ⁴	63.5 ⁶
19	38.80 ¹²	67.8 ¹⁵	10.21 ¹⁴	76.6 ¹⁶	9.79 ⁸	75.8 ¹⁴	56.61 ⁶	62.9 ⁷
29	38.68 ¹⁴	69.3 ¹³	10.07 ¹⁷	78.2 ¹³	9.71 ¹¹	77.2 ¹¹	56.55 ⁹	62.2 ⁷
Juli 9	38.54 ¹⁶	70.6 ⁹	9.90 ¹⁸	79.5 ¹⁰	9.60 ¹²	78.3 ⁹	56.46 ¹¹	61.5 ⁶
19	38.38 ¹⁷	71.5 ⁶	9.72 ²⁰	80.5 ⁵	9.48 ¹⁴	79.2 ⁷	56.35 ¹²	60.9 ⁶
29	38.21 ¹⁸	72.1 ²	9.52 ²¹	81.0 ¹	9.34 ¹⁶	79.9 ⁵	56.23 ¹⁴	60.3 ⁶
Aug. 8	38.03 ¹⁸	72.3 ¹	9.31 ²¹	81.1 ³	9.18 ¹⁶	80.4 ²	56.09 ¹⁴	59.7 ⁵
18	37.85 ¹⁸	72.2 ⁵	9.10 ²¹	80.8 ⁷	9.02 ¹⁵	80.6 ¹	55.95 ¹⁵	59.2 ⁴
28	37.67 ¹⁷	71.7 ⁹	8.89 ²⁰	80.1 ¹¹	8.87 ¹⁵	80.5 ⁴	55.80 ¹⁴	58.8 ³
Sept. 7	37.50 ¹⁵	70.8 ¹³	8.69 ¹⁷	79.0 ¹⁶	8.72 ¹⁴	80.1 ⁷	55.66 ¹²	58.5 ²
17	37.35 ¹³	69.5 ¹⁶	8.52 ¹⁵	77.4 ¹⁹	8.58 ¹¹	79.4 ⁹	55.54 ¹⁰	58.3 ⁰
27	37.22 ¹⁰	67.9 ¹⁹	8.37 ¹¹	75.5 ²²	8.47 ⁸	78.5 ¹³	55.44 ⁷	58.3 ¹
Oct. 7	37.12 ⁵	66.0 ²²	8.26 ⁷	73.3 ²⁶	8.39 ⁵	77.2 ¹⁵	55.37 ⁴	58.4 ³
17	37.07 ⁰	63.8 ²⁵	8.19 ¹	70.7 ²⁹	8.34 ⁰	75.7 ¹⁸	55.33 ¹	58.7 ⁶
27	37.07 ⁵	61.3 ³¹	8.18 ⁴	67.8 ³⁴	8.34 ⁶	73.9 ²³	55.34 ⁷	59.3 ⁹
Nov. 6	37.12 ¹⁰	58.2 ²⁹	8.22 ¹⁰	64.4 ³²	8.40 ¹⁰	71.6 ²³	55.41 ¹¹	60.2 ¹⁰
16	37.22 ¹⁶	55.3 ³⁰	8.32 ¹⁶	61.2 ³³	8.50 ¹⁵	69.3 ²⁴	55.52 ¹⁶	61.2 ¹²
26	37.38 ²¹	52.3 ³⁰	8.48 ²²	57.9 ³²	8.65 ²⁰	66.9 ²⁵	55.68 ²¹	62.4 ¹⁵
Dec. 6	37.59 ²⁶	49.3 ³⁰	8.70 ²⁶	54.7 ³²	8.85 ²⁴	64.4 ²⁶	55.89 ²⁴	63.9 ¹⁶
16	37.85 ²⁹	46.3 ²⁸	8.96 ³¹	51.5 ²⁹	9.09 ²⁷	61.8 ²⁵	56.13 ²⁸	65.5 ¹⁸
26	38.14 ³¹	43.5 ²⁵	9.27 ³³	48.6 ²⁶	9.36 ²⁹	59.3 ²³	56.41 ³⁰	67.3 ¹⁹
36	38.45	41.0	9.60	46.0	9.65	57.0	56.71	69.2
Mittl. Ort	36.39	65.2	7.90	72.1	7.17	76.4	53.63	56.3
	192)		193)		194)		196)	

1902	109 Virginis. 3 ^m .6.		α Librae. 2 ^m .3.		Gr. 2164. 5 ^m .8.		β Ursae min. 2 ^m .0.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	14 ^h 41 ^m	2° 18'	14 ^h 45 ^m	15° 38'	14 ^h 48 ^m	59° 41'	14 ^h 50 ^m	74° 32'
Jan. 0	17.55 ³¹	19.4 ²⁰	27.41 ³²	1.0 ¹⁵	55.33 ⁴⁶	18.7 ²⁵	54.91 ⁷⁶	66.1 ²³
10	17.86 ³²	17.4 ¹⁹	27.73 ³³	2.5 ¹⁵	55.79 ⁴⁹	16.2 ¹⁹	55.67 ⁸³	63.8 ¹⁷
20	18.18 ³¹	15.5 ¹⁷	28.06 ³³	4.0 ¹⁶	56.28 ⁵⁰	14.3 ¹³	56.50 ⁸⁷	62.1 ¹¹
30	18.49 ³⁰	13.8 ¹⁴	28.39 ³²	5.6 ¹⁵	56.78 ⁵⁰	13.0 ⁷	57.37 ⁸⁸	61.0 ⁴
Febr. 9	18.79 ²⁹	12.4 ¹²	28.71 ³⁰	7.1 ¹⁵	57.28 ⁴⁹	12.3 ⁰	58.25 ⁸⁶	60.6 ²
19	19.08 ²⁷	11.2 ⁹	29.01 ²⁸	8.6 ¹³	57.77 ⁴⁶	12.3 ⁶	59.11 ⁸²	60.8 ⁹
März 1	19.35 ²⁴	10.3 ⁵	29.29 ²⁶	9.9 ¹²	58.23 ⁴¹	12.9 ¹³	59.93 ⁷⁴	61.7 ¹⁶
11	19.59 ²¹	9.8 ²	29.55 ²²	11.1 ¹⁰	58.64 ³⁶	14.2 ¹⁹	60.67 ⁶⁴	63.3 ²¹
21	19.80 ¹⁹	9.6 ⁰	29.77 ²⁰	12.1 ⁹	59.00 ³⁰	16.1 ²³	61.31 ⁵²	65.4 ²⁵
31	19.99 ¹⁶	9.6 ³	29.97 ¹⁷	13.0 ⁶	59.30 ²⁴	18.4 ²⁷	61.83 ³⁹	67.9 ²⁹
April 10	20.15 ¹²	9.9 ⁶	30.14 ¹⁴	13.6 ⁵	59.54 ¹⁶	21.1 ²⁹	62.22 ²⁵	70.8 ³¹
20	20.27 ⁹	10.5 ⁸	30.28 ¹¹	14.1 ³	59.70 ⁸	24.0 ³¹	62.47 ¹⁰	73.9 ³²
30	20.36 ⁷	11.3 ⁹	30.39 ⁹	14.4 ²	59.78 ²	27.1 ³¹	62.57 ⁴	77.1 ³²
Mai 10	20.43 ⁴	12.2 ⁹	30.48 ⁵	14.6 ⁰	59.80 ⁵	30.2 ³¹	62.53 ¹⁷	80.3 ³²
20	20.47 ¹	13.1 ¹⁰	30.53 ²	14.6 ⁰	59.75 ¹¹	33.3 ²⁹	62.36 ³⁰	83.5 ²⁹
30	20.48 ²	14.1 ¹¹	30.55 ⁰	14.6 ²	59.64 ¹⁷	36.2 ²⁶	62.06 ⁴²	86.4 ²⁶
Juni 9	20.46 ⁴	15.2 ¹⁰	30.55 ⁴	14.4 ²	59.47 ²²	38.8 ²⁴	61.64 ⁵²	89.0 ²³
19	20.42 ⁷	16.2 ⁹	30.51 ⁶	14.2 ³	59.25 ²⁷	41.2 ¹⁹	61.12 ⁶¹	91.3 ¹⁸
29	20.35 ⁹	17.1 ⁹	30.45 ⁸	13.9 ⁴	58.98 ³¹	43.1 ¹⁵	60.51 ⁶⁸	93.1 ¹⁴
Juli 9	20.26 ¹⁰	18.0 ⁸	30.37 ¹¹	13.5 ⁴	58.67 ³⁵	44.6 ¹¹	59.83 ⁷³	94.5 ⁹
19	20.16 ¹³	18.8 ⁶	30.26 ¹³	13.1 ⁵	58.32 ³⁶	45.7 ⁵	59.10 ⁷⁸	95.4 ³
29	20.03 ¹⁴	19.4 ⁶	30.13 ¹⁴	12.6 ⁵	57.96 ³⁸	46.2 ⁰	58.32 ⁸⁰	95.7 ²
Aug. 8	19.89 ¹⁵	20.0 ⁴	29.99 ¹⁵	12.1 ⁶	57.58 ³⁸	46.2 ⁵	57.52 ⁷⁹	95.5 ⁷
18	19.74 ¹⁵	20.4 ²	29.84 ¹⁵	11.5 ⁶	57.20 ³⁸	45.7 ¹⁰	56.73 ⁷⁸	94.8 ¹³
28	19.59 ¹⁴	20.6 ¹	29.69 ¹⁵	10.9 ⁶	56.82 ³⁶	44.7 ¹⁵	55.95 ⁷⁴	93.5 ¹⁷
Sept. 7	19.45 ¹³	20.7 ¹	29.54 ¹³	10.3 ⁶	56.46 ³⁴	43.2 ¹⁹	55.21 ⁶⁹	91.8 ²²
17	19.32 ¹⁰	20.6 ³	29.41 ¹¹	9.7 ⁵	56.12 ²⁹	41.3 ²³	54.52 ⁶²	89.6 ²⁶
27	19.22 ⁸	20.3 ⁵	29.30 ⁸	9.2 ⁴	55.83 ²⁵	39.0 ²⁸	53.90 ⁵²	87.0 ³⁰
Oct. 7	19.14 ⁴	19.8 ⁸	29.22 ⁵	8.8 ³	55.58 ¹⁸	36.2 ³¹	53.38 ⁴²	84.0 ³³
17	19.10 ¹	19.0 ¹⁰	29.17 ¹	8.5 ¹	55.40 ¹²	33.1 ³⁴	52.96 ²⁹	80.7 ³⁶
27	19.11 ⁶	18.0 ¹³	29.18 ⁵	8.4 ¹	55.28 ⁴	29.7 ³⁶	52.67 ¹⁵	77.1 ³⁷
Nov. 6	19.17 ¹⁰	16.7 ¹⁵	29.23 ¹²	8.5 ⁴	55.24 ⁶	26.1 ⁴⁰	52.52 ¹	73.4 ⁴²
16	19.27 ¹⁵	15.2 ¹⁷	29.35 ¹⁶	8.9 ⁷	55.30 ¹⁴	22.1 ³⁸	52.53 ¹⁶	69.2 ³⁷
26	19.42 ²⁰	13.5 ¹⁸	29.51 ²¹	9.6 ⁸	55.44 ²³	18.3 ³⁶	52.69 ³²	65.5 ³⁷
Dec. 6	19.62 ²³	11.7 ²⁰	29.72 ²⁵	10.4 ¹¹	55.67 ³⁰	14.7 ³⁵	53.01 ⁴⁶	61.8 ³⁴
16	19.85 ²⁷	9.7 ²⁰	29.97 ²⁸	11.5 ¹³	55.97 ³⁷	11.2 ³¹	53.47 ⁶⁰	58.4 ³⁰
26	20.12 ³⁰	7.7 ²⁰	30.25 ³¹	12.8 ¹⁴	56.34 ⁴³	8.1 ²⁷	54.07 ⁷⁰	55.4 ²⁶
36	20.42	5.7	30.56	14.2	56.77	5.4	54.77	52.8
Mittl. Ort	17.56	20.3	27.28	5.7	57.08	32.6	59.13	81.2
	(197)		(590)		(462)		(198)	

1902	P. XIV, 221. 6 ^m .o.		β Bootis. 3 ^m .o.		γ Scorp. 3 ^m .4.		ψ Bootis. 4 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +
	14 ^h 51 ^m	14° 50'	14 ^h 58 ^m	40° 46'	14 ^h 58 ^m	24° 53'	15 ^h 0 ^m	27° 19'
Jan. 0	35.48 ³¹	28.4 ²²	14.44 ³⁴	26.9 ²⁶	20.02 ³³	41.7 ¹¹	14.28 ³⁰	39.4 ²⁵
10	35.79 ³¹	26.2 ²⁰	14.78 ³⁶	24.3 ²²	20.35 ³⁵	42.8 ¹³	14.58 ³³	36.9 ²¹
20	36.10 ³¹	24.2 ¹⁷	15.14 ³⁶	22.1 ¹⁶	20.70 ³⁴	44.1 ¹⁴	14.91 ³³	34.8 ¹⁷
30	36.41 ³¹	22.5 ¹⁴	15.50 ³⁷	20.5 ¹¹	21.04 ³⁴	45.5 ¹⁴	15.24 ³²	33.1 ¹³
Febr. 9	36.72 ³⁰	21.1 ¹⁰	15.87 ⁹⁶	19.4 ⁵	21.38 ³²	46.9 ¹⁵	15.56 ³¹	31.8 ⁸
19	37.02 ²⁸	20.1 ⁵	16.23 ³³	18.9 ¹	21.70 ³¹	48.4 ¹⁴	15.87 ³⁰	31.0 ²
März 1	37.30 ²⁵	19.6 ¹	16.56 ³⁰	19.0 ⁷	22.01 ²⁸	49.8 ¹⁴	16.17 ²⁷	30.8 [—]
11	37.55 ²²	19.5 ³	16.86 ²⁷	19.7 ¹²	22.29 ²⁵	51.2 ¹³	16.44 ²⁴	31.1 ³
21	37.77 ¹⁹	19.8 ⁶	17.13 ²³	20.9 ¹⁷	22.54 ²²	52.5 ¹²	16.68 ²¹	31.8 ¹²
31	37.96 ¹⁷	20.4 ¹⁰	17.36 ¹⁹	22.6 ²¹	22.76 ¹⁹	53.7 ¹¹	16.89 ¹⁸	33.0 ¹⁶
April 10	38.13 ¹³	21.4 ¹³	17.55 ¹⁴	24.7 ²⁴	22.95 ¹⁶	54.8 ⁹	17.07 ¹⁴	34.6 ¹⁸
20	38.26 ¹⁰	22.7 ¹⁴	17.69 ¹⁰	27.1 ²⁶	23.11 ¹³	55.7 ⁹	17.21 ¹⁰	36.4 ²¹
30	38.36 ⁷	24.1 ¹⁶	17.79 ⁶	29.7 ²⁷	23.24 ¹⁰	56.6 ⁷	17.31 ⁷	38.5 ²²
Mai 10	38.43 ³	25.7 ¹⁶	17.85 ²	32.4 ²⁷	23.34 ⁷	57.3 ⁶	17.38 ⁴	40.7 ²²
20	38.46 ¹	27.3 ¹⁷	17.87 ³	35.1 ²⁶	23.41 ⁴	57.9 ⁴	17.42 ⁰	42.9 ²²
30	38.47 [—]	29.0 ¹⁶	17.84 ⁶	37.7 ²⁵	23.45 ¹	58.3 ⁴	17.42 ³	45.1 ²¹
Juni 9	38.46 ⁵	30.6 ¹⁵	17.78 ¹⁰	40.2 ²²	23.46 [—]	58.7 ²	17.39 ⁶	47.2 ¹⁹
19	38.41 ⁷	32.1 ¹⁴	17.68 ¹³	42.4 ¹⁹	23.43 ³	58.9 ¹	17.33 ⁹	49.1 ¹⁸
29	38.34 ¹⁰	33.5 ¹²	17.55 ¹⁶	44.3 ¹⁶	23.38 ⁹	59.0 [—]	17.24 ¹²	50.9 ¹⁴
Juli 9	38.24 ¹¹	34.7 ¹⁰	17.39 ¹⁹	45.9 ¹²	23.29 ¹¹	58.9 ¹	17.12 ¹⁴	52.3 ¹²
19	38.13 ¹⁴	35.7 ⁷	17.20 ²¹	47.1 ⁸	23.18 ¹⁴	58.8 ³	16.98 ¹⁶	53.5 ⁸
29	37.99 ¹⁵	36.4 ⁵	16.99 ²²	47.9 ⁴	23.04 ¹⁵	58.5 ⁵	16.82 ¹⁷	54.3 ⁵
Aug. 8	37.84 ¹⁶	36.9 ³	16.77 ²³	48.3 ⁰	22.89 ¹⁶	58.0 ⁶	16.65 ¹⁹	54.8 ²
18	37.68 ¹⁶	37.2 ⁰	16.54 ²³	48.3 ⁵	22.73 ¹⁷	57.4 ⁶	16.46 ¹⁹	55.0 [—]
28	37.52 ¹⁶	37.2 ²	16.31 ²³	47.8 ¹⁰	22.56 ¹⁶	56.8 ⁸	16.27 ¹⁸	54.8 ⁵
Sept. 7	37.36 ¹⁴	37.0 ⁶	16.08 ²¹	46.8 ¹³	22.40 ¹⁵	56.0 ⁸	16.09 ¹⁷	54.3 ⁹
17	37.22 ¹²	36.4 ⁸	15.87 ¹⁸	45.5 ¹⁸	22.25 ¹³	55.2 ⁸	15.92 ¹⁵	53.4 ¹³
27	37.10 ¹⁰	35.6 ¹¹	15.69 ¹⁵	43.7 ²¹	22.12 ⁹	54.4 ⁹	15.77 ¹²	52.1 ¹⁶
Oct. 7	37.00 ⁵	34.5 ¹⁴	15.54 ¹¹	41.6 ²⁵	22.03 ⁶	53.5 ⁷	15.65 ⁸	50.5 ²⁰
17	36.95 ²	33.1 ¹⁶	15.43 ⁶	39.1 ²⁸	21.97 ¹	52.8 ⁶	15.57 ⁴	48.5 ²²
27	36.93 ³	31.5 ¹⁹	15.37 ¹	36.3 ³⁰	21.96 ⁵	52.2 ⁵	15.53 ¹	46.3 ²⁵
Nov. 6	36.96 ⁹	29.6 ²⁴	15.36 ⁷	33.3 ³⁶	22.01 ¹²	51.7 ³	15.54 ⁸	43.8 ³⁰
16	37.05 ¹⁴	27.2 ²³	15.43 ¹²	29.7 ³³	22.13 ¹⁶	51.4 ⁰	15.62 ¹²	40.8 ²⁹
26	37.19 ¹⁸	24.9 ²⁴	15.55 ¹⁸	26.4 ³⁴	22.29 ²¹	51.4 ³	15.74 ¹⁷	37.9 ³⁰
Dec. 6	37.37 ²³	22.5 ²⁵	15.73 ²³	23.0 ³³	22.50 ²⁵	51.7 ⁵	15.91 ²²	34.9 ²⁹
16	37.60 ²⁶	20.0 ²⁴	15.96 ²⁸	19.7 ³¹	22.75 ²⁹	52.2 ⁸	16.13 ²⁶	32.0 ²⁸
26	37.86 ²⁹	17.6 ²³	16.24 ³²	16.6 ²⁸	23.04 ³²	53.0 ¹⁰	16.39 ³⁰	29.2 ²⁶
36	38.15	15.3	16.56	13.8	23.36	54.0	16.69	26.6
Mittl. Ort	35.70	32.5	15.26	36.8	19.90	49.4	14.75	46.2

463)

199)

591)

465)

1902	♁ Bootis. 3 ^m .o.		♋ Librae. 2 ^m .o.		♄ H. Urs. min. 5 ^m .3.		♁ Bootis. 3 ^m .8.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	15 ^h 11 ^m	33° 40'	15 ^h 11 ^m	9° 1'	15 ^h 13 ^m	67° 42'	15 ^h 20 ^m	37° 42'
Jan. 0	32.45 ³¹	41.6 ²⁶	43.85 ³⁰	14.1 ¹⁶	27.63 ⁵³	55.0 ²⁷	46.37 ³¹	66.3 ²⁷
10	32.76 ³³	39.0 ²²	44.15 ³¹	15.7 ¹⁶	28.16 ⁵⁹	52.3 ²¹	46.68 ³³	63.6 ²³
20	33.09 ³⁴	36.8 ¹⁸	44.46 ³²	17.3 ¹⁵	28.75 ⁶²	50.2 ¹⁵	47.01 ³⁵	61.3 ¹⁹
30	33.43 ³⁴	35.0 ¹³	44.78 ³¹	18.8 ¹⁴	29.37 ⁶⁴	48.7 ⁹	47.36 ³⁵	59.4 ¹³
Febr. 9	33.77 ³³	33.7 ⁷	45.09 ³⁰	20.2 ¹³	30.01 ⁶⁴	47.8 ¹	47.71 ³⁵	58.1 ⁷
19	34.10 ³²	33.0 ²	45.39 ²⁹	21.5 ¹¹	30.65 ⁶¹	47.7 ⁵	48.06 ³³	57.4 ¹
März 1	34.42 ²⁹	32.8 ⁴	45.68 ²⁶	22.6 ⁹	31.26 ⁵⁶	48.2 ¹²	48.39 ³¹	57.3 ⁴
11	34.71 ²⁶	33.2 ⁹	45.94 ²⁴	23.5 ⁶	31.82 ⁵⁰	49.4 ¹⁸	48.70 ²⁸	57.7 ¹⁰
21	34.97 ²³	34.1 ¹⁴	46.18 ²²	24.1 ⁴	32.32 ⁴³	51.2 ²²	48.98 ²⁴	58.7 ¹⁵
31	35.20 ¹⁹	35.5 ¹⁸	46.40 ¹⁹	24.5 ³	32.75 ³⁴	53.4 ²⁶	49.22 ²⁰	60.2 ¹⁹
April 10	35.39 ¹⁵	37.3 ²¹	46.59 ¹⁶	24.8 ⁰	33.09 ²⁵	56.0 ²⁹	49.42 ¹⁷	62.1 ²²
20	35.54 ¹²	39.4 ²³	46.75 ¹³	24.8 ¹	33.34 ¹⁵	58.9 ³²	49.59 ¹³	64.3 ²⁵
30	35.66 ⁸	41.7 ²⁴	46.88 ¹⁰	24.7 ³	33.49 ⁶	62.1 ³²	49.72 ⁸	66.8 ²⁶
Mai 10	35.74 ⁴	44.1 ²⁵	46.98 ⁸	24.4 ⁴	33.55 ⁴	65.3 ³³	49.80 ⁵	69.4 ²⁷
20	35.78 ⁰	46.6 ²⁵	47.06 ⁴	24.0 ⁵	33.51 ¹³	68.6 ³¹	49.85 ¹	72.1 ²⁷
30	35.78 ³	49.1 ²⁴	47.10 ²	23.5 ⁵	33.38 ²²	71.7 ²⁸	49.86 ³	74.8 ²⁵
Juni 9	35.75 ⁶	51.5 ²²	47.12 ²	23.0 ⁶	33.16 ³⁰	74.5 ²⁵	49.83 ⁷	77.3 ²³
19	35.69 ¹⁰	53.7 ¹⁹	47.10 ⁴	22.4 ⁵	32.86 ³⁶	77.0 ²²	49.76 ¹⁰	79.6 ²¹
29	35.59 ¹³	55.6 ¹⁶	47.06 ⁷	21.9 ⁶	32.50 ⁴²	79.2 ¹⁷	49.66 ¹⁴	81.7 ¹⁸
Juli 9	35.46 ¹⁵	57.2 ¹³	46.99 ¹⁰	21.3 ⁶	32.08 ⁴⁸	80.9 ¹³	49.52 ¹⁷	83.5 ¹⁴
19	35.31 ¹⁸	58.5 ¹⁰	46.89 ¹²	20.7 ⁵	31.60 ⁵¹	82.2 ⁷	49.35 ¹⁹	84.9 ¹¹
29	35.13 ¹⁹	59.5 ⁶	46.77 ¹³	20.2 ⁶	31.09 ⁵³	82.9 ³	49.16 ²¹	86.0 ⁶
Aug. 8	34.94 ²⁰	60.1 ¹	46.64 ¹⁵	19.6 ⁵	30.56 ⁵⁵	83.2 ³	48.95 ²²	86.6 ²
18	34.74 ²¹	60.2 ²	46.49 ¹⁶	19.1 ⁴	30.01 ⁵⁵	82.9 ⁹	48.73 ²³	86.8 ²
28	34.53 ²¹	60.0 ⁶	46.33 ¹⁵	18.7 ⁴	29.46 ⁵³	82.0 ¹³	48.50 ²³	86.6 ⁶
Sept. 7	34.32 ²⁰	59.4 ¹¹	46.18 ¹⁵	18.3 ³	28.93 ⁵⁰	80.7 ¹⁸	48.27 ²²	86.0 ¹¹
17	34.12 ¹⁷	58.3 ¹⁴	46.03 ¹²	18.0 ²	28.43 ⁴⁶	78.9 ²³	48.05 ¹⁹	84.9 ¹⁵
27	33.95 ¹⁴	56.9 ¹⁸	45.91 ¹⁰	17.8 ¹	27.97 ⁴⁰	76.6 ²⁷	47.86 ¹⁶	83.4 ¹⁹
Oct. 7	33.81 ¹⁰	55.1 ²¹	45.81 ⁷	17.7 ¹	27.57 ³³	73.9 ³⁰	47.70 ¹³	81.5 ²²
17	33.71 ⁶	53.0 ²⁵	45.74 ²	17.8 ³	27.24 ²⁴	70.9 ³⁴	47.57 ⁸	79.3 ²⁵
27	33.65 ¹	50.5 ²⁷	45.72 ²	18.1 ⁴	27.00 ¹⁴	67.5 ³⁶	47.49 ²	76.8 ²⁹
Nov. 6	33.64 ⁵	47.8 ³³	45.74 ⁹	18.5 ⁸	26.86 ⁴	63.9 ⁴¹	47.47 ¹⁵	73.9 ³⁴
16	33.69 ¹¹	44.5 ³¹	45.83 ¹³	19.3 ⁹	26.82 ⁹	59.8 ³⁸	47.50 ⁹	70.5 ³²
26	33.80 ¹⁶	41.4 ³²	45.96 ¹⁸	20.2 ¹²	26.91 ¹⁹	56.0 ³⁷	47.59 ¹⁵	67.3 ³³
Dec. 6	33.96 ²¹	38.2 ³¹	46.14 ²²	21.4 ¹³	27.10 ³¹	52.3 ³⁶	47.74 ²¹	64.0 ³³
16	34.17 ²⁶	35.1 ³⁰	46.36 ²⁵	22.7 ¹⁵	27.41 ⁴¹	48.7 ³³	47.95 ²⁵	60.7 ³¹
26	34.43 ²⁹	32.1 ²⁸	46.61 ²⁹	24.2 ¹⁵	27.82 ⁴⁹	45.4 ²⁹	48.20 ²⁹	57.6 ²⁹
36	34.72	29.3	46.90	25.7	28.31	42.5	48.49	54.7
Mittl. Ort	33.13	49.2	43.90	17.7	30.57	67.6	47.21	74.0
	201)		200)		467)		202)	

1902	γ Ursae min. 3 ^m .o.		ε Draconis. 3 ^m .o.		β Coron. bor. 3 ^m .8.		ν ¹ Bootis. 4 ^m .5.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	15 ^h 20 ^m	72° 10'	15 ^h 22 ^m	59° 18'	15 ^h 23 ^m	29° 26'	15 ^h 27 ^m	41° 9'
Jan. 0	49.11 ⁶¹	45.6 ²⁶	42.86 ⁴¹	22.6 ²⁸	46.69 ³⁰	29.5 ²⁶	23.56 ³²	52.7 ²⁷
10	49.72 ⁶⁸	43.0 ²²	43.27 ⁴⁶	19.8 ²³	46.99 ³¹	26.9 ²³	23.88 ³⁴	50.0 ²⁴
20	50.40 ⁷⁴	40.8 ¹⁵	43.73 ⁴⁸	17.5 ¹⁷	47.30 ³³	24.6 ¹⁸	24.22 ³⁶	47.6 ¹⁹
30	51.14 ⁷⁷	39.3 ⁸	44.21 ⁴⁹	15.8 ¹¹	47.63 ³³	22.8 ¹⁴	24.58 ³⁷	45.7 ¹³
Febr. 9	51.91 ⁷⁷	38.5 ²	44.70 ⁵⁰	14.7 ⁴	47.96 ³³	21.4 ⁹	24.95 ³⁶	44.4 ⁸
19	52.68 ⁷⁴	38.3 ⁵	45.20 ⁴⁷	14.3 ³	48.29 ³⁰	20.5 ³	25.31 ³⁴	43.6 ¹
März 1	53.42 ⁷⁰	38.8 ¹¹	45.67 ⁴⁴	14.6 ⁹	48.59 ²⁹	20.2 ²	25.65 ³²	43.5 ⁵
11	54.12 ⁶²	39.9 ¹⁸	46.11 ⁴⁰	15.5 ¹⁵	48.88 ²⁶	20.4 ⁷	25.97 ³⁰	44.0 ¹¹
21	54.74 ⁵³	41.7 ²²	46.51 ³⁴	17.0 ²¹	49.14 ²³	21.1 ¹²	26.27 ²⁶	45.1 ¹⁵
31	55.27 ⁴³	43.9 ²⁷	46.85 ²⁹	19.1 ²⁵	49.37 ²⁰	22.3 ¹⁶	26.53 ²²	46.6 ²⁰
April 10	55.70 ³¹	46.6 ³⁰	47.14 ²¹	21.6 ²⁸	49.57 ¹⁶	23.9 ¹⁹	26.75 ¹⁸	48.6 ²³
20	56.01 ¹⁹	49.6 ³²	47.35 ¹⁵	24.4 ³⁰	49.73 ¹³	25.8 ²²	26.93 ¹³	50.9 ²⁶
30	56.20 ⁶	52.8 ³³	47.50 ⁹	27.4 ³²	49.86 ¹⁰	28.0 ²³	27.06 ¹⁰	53.5 ²⁷
Mai 10	56.26 ⁵	56.1 ³²	47.59 ¹	30.6 ³²	49.96 ⁶	30.3 ²⁴	27.16 ⁵	56.2 ²⁸
20	56.21 ¹⁷	59.3 ³¹	47.60 ⁶	33.8 ³⁰	50.02 ²	32.7 ²⁴	27.21 ⁰	59.0 ²⁸
30	56.04 ²⁸	62.4 ²⁹	47.54 ¹¹	36.8 ²⁹	50.04 ¹	35.1 ²³	27.21 ³	61.8 ²⁷
Juni 9	55.76 ³⁷	65.3 ²⁶	47.43 ¹⁸	39.7 ²⁷	50.03 ⁵	37.4 ²¹	27.18 ⁷	64.5 ²⁴
19	55.39 ⁴⁶	67.9 ²²	47.25 ²³	42.4 ²³	49.98 ⁸	39.5 ¹⁹	27.11 ¹¹	66.9 ²²
29	54.93 ⁵⁴	70.1 ¹⁸	47.02 ²⁸	44.7 ¹⁹	49.90 ¹¹	41.4 ¹⁷	27.00 ¹⁵	69.1 ¹⁹
Juli 9	54.39 ⁶¹	71.9 ¹³	46.74 ³²	46.6 ¹⁴	49.79 ¹³	43.1 ¹⁴	26.85 ¹⁸	71.0 ¹⁵
19	53.78 ⁶⁵	73.2 ⁸	46.42 ³⁵	48.0 ¹⁰	49.66 ¹⁷	44.5 ¹⁰	26.67 ²⁰	72.5 ¹⁰
29	53.13 ⁶⁹	74.0 ³	46.07 ³⁸	49.0 ⁵	49.49 ¹⁸	45.5 ⁷	26.47 ²²	73.5 ⁷
Aug. 8	52.44 ⁷⁰	74.3 ³	45.69 ³⁹	49.5 ¹	49.31 ¹⁹	46.2 ⁴	26.25 ²⁴	74.2 ³
18	51.74 ⁷¹	74.0 ³	45.30 ³⁹	49.4 ⁵	49.12 ²⁰	46.6 ¹	26.01 ²⁵	74.5 ²
28	51.03 ⁶⁸	73.3 ¹³	44.91 ³⁹	48.9 ¹⁰	48.92 ²⁰	46.5 ⁴	25.76 ²⁵	74.3 ⁶
Sept. 7	50.35 ⁶⁵	72.0 ¹⁸	44.52 ³⁷	47.9 ¹⁶	48.72 ¹⁹	46.1 ⁸	25.51 ²³	73.7 ¹¹
17	49.70 ⁶⁰	70.2 ²²	44.15 ³⁴	46.3 ²⁰	48.53 ¹⁷	45.3 ¹²	25.28 ²¹	72.6 ¹⁶
27	49.10 ⁵³	68.0 ²⁷	43.81 ³⁰	44.3 ²⁴	48.36 ¹⁵	44.1 ¹⁶	25.07 ¹⁸	71.0 ¹⁹
Oct. 7	48.57 ⁴⁴	65.3 ³⁰	43.51 ²⁵	41.9 ²⁹	48.21 ¹¹	42.5 ¹⁹	24.89 ¹⁵	69.1 ²³
17	48.13 ³⁴	62.3 ³³	43.26 ¹⁷	39.0 ³¹	48.10 ⁶	40.6 ²²	24.74 ¹⁰	66.8 ²⁶
27	47.79 ²²	59.0 ³⁶	43.09 ¹⁰	35.9 ³⁴	48.04 ²	38.4 ²⁵	24.64 ⁴	64.2 ³⁰
Nov. 6	47.57 ¹⁵	55.4 ⁴¹	42.99 ¹⁵	32.5 ⁴⁰	48.02 ⁴	35.9 ²⁸	24.60 ¹	61.2 ³²
16	47.48 ⁵	51.3 ³⁸	42.97 ⁷	28.5 ³⁷	48.06 ¹⁰	33.1 ³²	24.61 ⁹	58.0 ³⁶
26	47.53 ²⁰	47.5 ³⁶	43.04 ¹⁶	24.8 ³⁷	48.16 ¹⁴	29.9 ³⁰	24.70 ¹⁴	54.4 ³⁴
Dec. 6	47.73 ³²	43.9 ³⁶	43.20 ²⁴	21.1 ³⁶	48.30 ²⁰	26.9 ³⁰	24.84 ²⁰	51.0 ³⁴
16	48.05 ⁴⁵	40.3 ³⁴	43.44 ³¹	17.5 ³⁴	48.50 ²⁴	23.9 ²⁹	25.04 ²⁵	47.6 ³²
26	48.50 ⁵⁶	36.9 ³⁰	43.75 ³⁸	14.1 ³⁰	48.74 ²⁷	21.0 ²⁸	25.29 ³⁰	44.4 ²⁹
36	49.06	33.9	44.13	11.1	49.01	18.2	25.59	41.5
Mittl. Ort	53.06	57.9	44.86	33.6	47.33	35.3	24.56	60.6
	203)		204)		205)		206)	

1902	γ Librae. 4 ^m .3.		α Coron. bor. 2 ^m .0.		α Serpentis. 2 ^m .3.		β Serpentis. 3 ^m .3.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	15 ^h 30 ^m	14° 27'	15 ^h 30 ^m	27° 2'	15 ^h 39 ^m	6° 43'	15 ^h 41 ^m	15° 43'
Jan. 0	2.49 ²⁹	40.6 ¹³	31.69 ²⁹	34.5 ²⁶	26.06 ²⁷	61.7 ²¹	39.33 ²⁸	40.5 ²⁴
10	2.78 ³²	41.9 ¹³	31.98 ³⁰	31.9 ²³	26.33 ³⁰	59.6 ¹⁹	39.61 ³⁰	38.1 ²¹
20	3.10 ³²	43.2 ¹⁴	32.28 ³²	29.6 ¹⁹	26.63 ³⁰	57.7 ¹⁷	39.91 ³¹	36.0 ¹⁸
30	3.42 ³²	44.6 ¹³	32.60 ³³	27.7 ¹⁴	26.93 ³⁰	56.0 ¹⁴	40.22 ³⁰	34.2 ¹⁵
Febr. 9	3.74 ³¹	45.9 ¹²	32.93 ³²	26.3 ¹⁰	27.23 ³⁰	54.6 ¹¹	40.52 ³¹	32.7 ¹¹
19	4.05 ³⁰	47.1 ¹¹	33.25 ³¹	25.3 ⁴	27.53 ²⁹	53.5 ⁸	40.83 ²⁹	31.6 ⁶
März 1	4.35 ²⁸	48.2 ¹⁰	33.56 ²⁹	24.9 ¹	27.82 ²⁸	52.7 ⁵	41.12 ²⁷	31.0 ³
11	4.63 ²⁵	49.2 ⁸	33.85 ²⁶	25.0 ⁶	28.10 ²⁵	52.2 ⁰	41.39 ²⁶	30.7 ²
21	4.88 ²³	50.0 ⁶	34.11 ²³	25.6 ¹¹	28.35 ²²	52.2 ³	41.65 ²³	30.9 ⁷
31	5.11 ²¹	50.6 ⁴	34.34 ²⁰	26.7 ¹⁵	28.57 ²¹	52.5 ⁶	41.88 ²¹	31.6 ¹⁰
April 10	5.32 ¹⁸	51.0 ²	34.54 ¹⁷	28.2 ¹⁸	28.78 ¹⁷	53.1 ⁸	42.09 ¹⁷	32.6 ¹³
20	5.50 ¹⁵	51.2 ¹	34.71 ¹⁴	30.0 ²⁰	28.95 ¹⁵	53.9 ¹¹	42.26 ¹⁵	33.9 ¹⁵
30	5.65 ¹³	51.3 ⁰	34.85 ¹⁰	32.0 ²²	29.10 ¹²	55.0 ¹²	42.41 ¹²	35.4 ¹⁷
Mai 10	5.78 ¹⁰	51.3 ¹	34.95 ⁷	34.2 ²³	29.22 ⁹	56.2 ¹⁴	42.53 ⁹	37.1 ¹⁸
20	5.88 ⁶	51.2 ²	35.02 ³	36.5 ²³	29.31 ⁶	57.6 ¹⁴	42.62 ⁵	38.9 ¹⁸
30	5.94 ⁴	51.0 ²	35.05 ⁰	38.8 ²³	29.37 ³	59.0 ¹⁴	42.67 ²	40.7 ¹⁹
Juni 9	5.98 ⁰	50.8 ³	35.05 ⁴	41.1 ²¹	29.40 ⁰	60.4 ¹⁴	42.69 ⁻¹	42.6 ¹⁸
19	5.98 ³	50.5 ⁴	35.01 ⁶	43.2 ¹⁹	29.40 ³	61.8 ¹³	42.68 ⁴	44.4 ¹⁶
29	5.95 ⁶	50.1 ³	34.95 ¹⁰	45.1 ¹⁷	29.37 ⁷	63.1 ¹¹	42.64 ⁷	46.0 ¹⁴
Juli 9	5.89 ⁹	49.8 ⁴	34.85 ¹³	46.8 ¹⁴	29.30 ⁹	64.2 ¹⁰	42.57 ¹⁰	47.4 ¹³
19	5.80 ¹²	49.4 ⁵	34.72 ¹⁵	48.2 ¹¹	29.21 ¹¹	65.2 ⁹	42.47 ¹²	48.7 ¹⁰
29	5.68 ¹⁴	48.9 ⁴	34.57 ¹⁷	49.3 ⁷	29.10 ¹⁴	66.1 ⁷	42.35 ¹⁵	49.7 ⁸
Aug. 8	5.54 ¹⁵	48.5 ⁴	34.40 ¹⁹	50.0 ⁴	28.96 ¹⁵	66.8 ⁵	42.20 ¹⁷	50.5 ⁵
18	5.39 ¹⁶	48.1 ⁵	34.21 ²⁰	50.4 ⁰	28.81 ¹⁷	67.3 ³	42.03 ¹⁷	51.0 ²
28	5.23 ¹⁶	47.6 ⁵	34.01 ¹⁹	50.4 ³	28.64 ¹⁷	67.6 ¹	41.86 ¹⁸	51.2 ⁰
Sept. 7	5.07 ¹⁶	47.1 ⁴	33.82 ¹⁹	50.1 ⁷	28.47 ¹⁶	67.7 ⁻¹	41.68 ¹⁷	51.2 ³
17	4.91 ¹⁴	46.7 ⁴	33.63 ¹⁷	49.4 ¹¹	28.31 ¹⁴	67.6 ³	41.51 ¹⁶	50.9 ⁷
27	4.77 ¹¹	46.3 ³	33.46 ¹⁴	48.3 ¹⁴	28.17 ¹³	67.3 ⁶	41.35 ¹⁴	50.2 ⁹
Oct. 7	4.66 ⁸	46.0 ²	33.32 ¹²	46.9 ¹⁸	28.04 ⁹	66.7 ⁹	41.21 ¹⁰	49.3 ¹³
17	4.58 ³	45.8 ⁰	33.20 ⁶	45.1 ²¹	27.95 ⁶	65.8 ¹¹	41.11 ⁶	48.0 ¹⁵
27	4.55 ⁻¹	45.8 ¹	33.14 ³	43.0 ²⁴	27.89 ⁻¹	64.7 ¹³	41.05 ²	46.5 ¹⁸
Nov. 6	4.56 ⁶	45.9 ³	33.11 ⁻³	40.6 ²⁶	27.88 ⁻⁴	63.4 ¹⁵	41.03 ⁻³	44.7 ²⁰
16	4.62 ¹²	46.2 ⁶	33.14 ⁹	38.0 ³¹	27.92 ¹⁰	61.9 ²⁰	41.06 ⁹	42.7 ²⁵
26	4.74 ¹⁷	46.8 ⁸	33.23 ¹⁴	34.9 ²⁹	28.02 ¹⁴	59.9 ¹⁹	41.15 ¹³	40.2 ²⁴
Dec. 6	4.91 ²¹	47.6 ⁹	33.37 ²⁰	32.0 ²⁹	28.16 ¹⁹	58.0 ²¹	41.28 ¹⁸	37.8 ²⁵
16	5.12 ²⁵	48.5 ¹¹	33.57 ²⁴	29.1 ²⁹	28.35 ²³	55.9 ²¹	41.46 ²²	35.3 ²⁵
26	5.37 ²⁸	49.6 ¹³	33.81 ²⁶	26.2 ²⁷	28.58 ²⁶	53.8 ²¹	41.68 ²⁶	32.8 ²⁴
36	5.65	50.9	34.07	23.5	28.84	51.7	41.94	30.4
Mittl. Ort	2.58	46.0	32.30	39.3	26.38	61.3	39.79	42.1
	593)		209)		212)		213)	

1902	α Serpentis. 4 ^m .0.		μ Serpentis. 3 ^m .3.		ε Serpentis. 3 ^m .3.		ζ Ursae min. 4 ^m .3.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	15 ^h 44 ^m	18° 26'	15 ^h 44 ^m	3° 7'	15 ^h 45 ^m	4° 46'	15 ^h 47 ^m	78° 5'
Jan. 0	19.19	36.4	29.99	46.4	55.43	21.7	25.98	36.0
10	19.46	34.0	30.27	48.1	55.70	19.8	26.73	33.2
20	19.75	31.8	30.56	49.8	55.99	17.9	27.63	30.9
30	20.06	30.0	30.87	51.3	56.29	16.2	28.63	29.1
Febr. 9	20.37	28.5	31.17	52.7	56.59	14.8	29.71	28.0
19	20.67	27.4	31.47	53.9	56.89	13.6	30.81	27.6
März 1	20.97	26.7	31.76	54.8	57.18	12.8	31.90	27.8
11	21.25	26.6	32.04	55.4	57.46	12.4	32.95	28.7
21	21.51	26.9	32.29	55.8	57.71	12.3	33.91	30.2
31	21.74	27.6	32.53	55.9	57.94	12.5	34.75	32.2
April 10	21.95	28.7	32.74	55.7	58.15	13.0	35.45	34.7
20	22.13	30.1	32.92	55.4	58.33	13.7	35.99	37.6
30	22.28	31.8	33.08	54.8	58.49	14.7	36.36	40.7
Mai 10	22.40	33.6	33.21	54.1	58.62	15.9	36.54	43.9
20	22.48	35.6	33.31	53.3	58.71	17.1	36.53	47.2
30	22.54	37.6	33.38	52.4	58.78	18.4	36.35	50.4
Juni 9	22.56	39.5	33.42	51.5	58.82	19.8	35.99	53.5
19	22.55	41.4	33.43	50.6	58.82	21.1	35.47	56.2
29	22.51	43.1	33.41	49.7	58.80	22.3	34.80	58.6
Juli 9	22.43	44.6	33.36	48.9	58.74	23.4	34.01	60.6
19	22.33	46.0	33.28	48.2	58.65	24.4	33.11	62.2
29	22.20	47.1	33.17	47.5	58.54	25.3	32.12	63.3
Aug. 8	22.05	47.9	33.03	46.9	58.41	26.0	31.07	63.9
18	21.88	48.4	32.88	46.4	58.26	26.5	29.97	64.0
28	21.70	48.6	32.72	46.0	58.09	26.8	28.87	63.5
Sept. 7	21.52	48.6	32.56	45.7	57.92	27.0	27.77	62.6
17	21.34	48.2	32.40	45.6	57.76	26.9	26.71	61.1
27	21.18	47.4	32.25	45.6	57.61	26.7	25.71	59.2
Oct. 7	21.04	46.4	32.13	45.8	57.48	26.2	24.80	56.8
17	20.93	45.1	32.04	46.2	57.39	25.4	24.01	54.0
27	20.86	43.4	31.99	46.7	57.33	24.5	23.36	50.9
Nov. 6	20.83	41.5	31.98	47.5	57.32	23.3	22.87	47.5
16	20.85	39.3	32.02	48.4	57.35	21.8	22.56	43.9
26	20.94	36.7	32.12	49.7	57.44	20.0	22.44	39.9
Dec. 6	21.07	34.1	32.26	51.1	57.58	18.2	22.54	36.2
16	21.25	31.5	32.45	52.7	57.76	16.3	22.85	32.6
26	21.47	28.9	32.68	54.3	57.98	14.2	23.35	29.2
36	21.72	26.5	32.93	56.0	58.24	12.2	24.03	26.1
Mittl. Ort	19.69	38.6	30.24	49.5	55.75	20.6	32.69	46.0
	215)		214)		216)		217)	

1902	ε Coron. bor. 4 ^m .0.		δ Scorpii. 2 ^m .3.		β Scorpii. 2 ^m .0.		η Draconis. 3 ^m .6.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. -	AR.	Decl. +
	15 ^h 53 ^m	27° 9'	15 ^h 54 ^m	22° 20'	15 ^h 59 ^m	19° 32'	16 ^h 0 ^m	58° 49'
Jan. 0	31.06	37.6	32.04	27.7	43.98	8.4	1.08	29.3
10	31.33	35.0	32.33	28.5	44.27	9.4	1.43	26.3
20	31.62	32.6	32.64	29.5	44.58	10.4	1.84	23.7
30	31.94	30.6	32.97	30.5	44.90	11.4	2.29	21.6
Febr. 9	32.26	29.1	33.31	31.6	45.22	12.5	2.76	20.0
19	32.57	28.0	33.63	32.6	45.54	13.6	3.24	19.2
März 1	32.88	27.4	33.95	33.6	45.85	14.5	3.72	19.0
11	33.18	27.5	34.25	34.6	46.15	15.4	4.18	19.5
21	33.45	28.0	34.54	35.5	46.43	16.2	4.60	20.6
31	33.70	28.9	34.80	36.3	46.69	16.8	4.98	22.4
April 10	33.92	30.3	35.04	36.9	46.93	17.3	5.31	24.6
20	34.11	32.0	35.25	37.4	47.14	17.7	5.59	27.2
30	34.27	34.1	35.43	37.9	47.33	18.0	5.81	30.2
Mai 10	34.40	36.4	35.59	38.3	47.49	18.2	5.95	33.3
20	34.49	38.7	35.71	38.6	47.62	18.3	6.03	36.6
30	34.55	41.1	35.81	38.8	47.71	18.4	6.04	39.8
Juni 9	34.57	43.5	35.87	39.0	47.78	18.4	5.98	42.9
19	34.55	45.7	35.90	39.1	47.81	18.3	5.86	45.9
29	34.50	47.8	35.89	39.2	47.80	18.2	5.68	48.5
Juli 9	34.41	49.6	35.84	39.1	47.76	18.1	5.44	50.8
19	34.29	51.1	35.76	39.0	47.69	17.9	5.15	52.8
29	34.15	52.4	35.65	38.9	47.58	17.7	4.82	54.2
Aug. 8	33.98	53.3	35.51	38.7	47.45	17.4	4.46	55.2
18	33.79	53.9	35.35	38.3	47.29	17.1	4.07	55.7
28	33.59	54.1	35.18	37.9	47.12	16.7	3.67	55.7
Sept. 7	33.39	54.0	35.00	37.5	46.95	16.3	3.26	55.1
17	33.19	53.4	34.83	36.9	46.78	15.8	2.86	54.1
27	33.00	52.5	34.67	36.4	46.62	15.4	2.48	52.5
Oct. 7	32.84	51.2	34.53	35.8	46.48	15.0	2.14	50.5
17	32.71	49.6	34.43	35.3	46.38	14.6	1.84	48.1
27	32.62	47.6	34.37	34.8	46.31	14.3	1.61	45.3
Nov. 6	32.57	45.3	34.36	34.5	46.30	14.1	1.44	42.1
16	32.58	42.8	34.40	34.3	46.33	14.0	1.34	38.7
26	32.65	39.7	34.51	34.3	46.43	14.1	1.33	34.7
Dec. 6	32.76	36.8	34.66	34.4	46.57	14.5	1.42	31.0
16	32.92	33.9	34.86	34.8	46.75	15.0	1.59	27.3
26	33.13	31.0	35.10	35.4	46.99	15.7	1.84	23.8
36	33.38	28.2	35.38	36.1	47.26	16.6	2.15	20.6
Mittl. Ort	31.76	41.0	32.21	35.4	44.19	15.6	3.26	36.9
	219)		594)		595)		220)	

1902	δ Ophiuchi. 3 ^m .0.		ε Ophiuchi. 3 ^m .3.		ι9 Ursae min. 5 ^m .8.		τ Herculis. 3 ^m .3.	
	AR.	Decl.	AR.	Decl.	AR.	Decl. +	AR.	Decl. +
	16 ^h 9 ^m	3° 26'	16 ^h 13 ^m	4° 27'	16 ^h 13 ^m	76° 7'	16 ^h 16 ^m	46° 32'
Jan. 0	12.16	28.2	7.72	10.4	30.56	20.7	46.11	42.7
10	12.42	28.16	7.98	11.9	31.14	17.2	46.39	39.6
20	12.70	28.15	8.26	13.4	31.86	14.6	46.71	36.9
30	12.99	28.15	8.56	14.8	32.68	12.5	47.07	34.6
Febr. 9	13.30	28.13	8.86	16.1	33.58	11.0	47.44	32.9
19	13.60	28.11	9.16	17.2	34.53	10.2	47.81	31.8
März 1	13.89	28.9	9.46	18.1	35.49	10.0	48.19	31.3
11	14.17	28.6	9.74	18.7	36.42	10.5	48.56	31.4
21	14.44	28.3	10.01	19.0	37.30	11.7	48.91	32.2
31	14.69	28.1	10.26	19.1	38.09	13.5	49.23	33.5
April 10	14.92	28.2	10.49	19.0	38.77	15.7	49.51	35.4
20	15.12	28.4	10.70	18.6	39.33	18.4	49.76	37.7
30	15.30	28.6	10.89	18.0	39.75	21.4	49.96	40.3
Mai 10	15.46	28.8	11.04	17.3	40.01	24.6	50.11	43.2
20	15.58	28.8	11.17	16.5	40.11	27.9	50.22	46.2
30	15.68	28.9	11.27	15.6	40.06	31.2	50.28	49.3
Juni 9	15.74	28.10	11.34	14.7	39.86	34.4	50.30	52.3
19	15.77	28.9	11.38	13.8	39.51	37.4	50.26	55.1
29	15.77	28.9	11.38	12.9	39.03	40.1	50.17	57.8
Juli 9	15.73	28.8	11.35	12.1	38.42	42.5	50.04	60.2
19	15.66	28.7	11.28	11.4	37.71	44.4	49.87	62.2
29	15.56	28.6	11.18	10.7	36.91	45.9	49.65	63.9
Aug. 8	15.44	28.5	11.06	10.1	36.03	46.9	49.41	65.1
18	15.29	28.3	10.91	9.6	35.10	47.4	49.14	65.9
28	15.13	28.3	10.75	9.2	34.15	47.4	48.86	66.2
Sept. 7	14.96	28.2	10.58	8.9	33.19	46.8	48.56	66.0
17	14.79	28.0	10.41	8.7	32.24	45.8	48.27	65.3
27	14.63	28.2	10.25	8.7	31.33	44.2	47.99	64.2
Oct. 7	14.49	28.3	10.11	8.8	30.49	42.2	47.73	62.6
17	14.38	28.5	10.00	9.1	29.74	39.7	47.51	60.6
27	14.31	28.7	9.92	9.5	29.09	36.9	47.34	58.1
Nov. 6	14.28	28.9	9.89	10.2	28.57	33.7	47.21	55.3
16	14.29	28.11	9.90	11.0	28.21	30.3	47.15	52.2
26	14.36	28.15	9.96	12.0	28.02	26.7	47.15	48.9
Dec. 6	14.49	28.14	10.09	13.4	28.00	22.6	47.22	45.1
16	14.65	28.15	10.26	14.8	28.17	18.9	47.35	41.5
26	14.86	28.16	10.46	16.2	28.52	15.4	47.55	38.1
36	15.10	28.16	10.70	17.8	29.05	12.2	47.81	34.9
Mittl. Ort	12.49	32.0	8.07	14.5	36.49	27.5	47.54	47.5

222)

223)

472)

224)

1902	γ Herculis. 3 ^m .I.		η Draconis. 2 ^m .6.		α Scorpii. 1 ^m .3.		β Herculis. 2 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +
	16 ^h 17 ^m	19° 22'	16 ^h 22 ^m	61° 43'	16 ^h 23 ^m	26° 12'	16 ^h 25 ^m	21° 41'
Jan. 0	35.11 ²⁵	58.5 ²⁵	37.52 ³⁴	63.2 ³²	23.49 ²⁸	45.4 ⁴	59.63 ²⁴	70.0 ²⁶
10	35.36 ²⁷	56.0 ²²	37.86 ⁴⁰	60.0 ²⁸	23.77 ³¹	45.8 ⁶	59.87 ²⁷	67.4 ²³
20	35.63 ²⁹	53.8 ²⁰	38.26 ⁴⁵	57.2 ²³	24.08 ³³	46.4 ⁷	60.14 ²⁹	65.1 ²¹
30	35.92 ³⁰	51.8 ¹⁶	38.71 ⁴⁹	54.9 ¹⁸	24.41 ³³	47.1 ⁸	60.43 ³⁰	63.0 ¹⁶
Febr. 9	36.22 ³¹	50.2 ¹²	39.20 ⁵²	53.1 ¹¹	24.74 ³⁴	47.9 ⁸	60.73 ³¹	61.4 ¹²
19	36.53 ³⁰	49.0 ⁸	39.72 ⁵²	52.0 ⁴	25.08 ³³	48.7 ⁸	61.04 ³⁰	60.2 ⁸
März 1	36.83 ²⁹	48.2 ²	40.24 ⁵⁰	51.6 ³	25.41 ³²	49.5 ⁸	61.34 ³⁰	59.4 ³
11	37.12 ²⁷	48.0 ²	40.74 ⁴⁸	51.9 ⁹	25.73 ³¹	50.3 ⁷	61.64 ²⁸	59.1 ²
21	37.39 ²⁶	48.2 ⁷	41.22 ⁴⁴	52.8 ¹⁵	26.04 ²⁹	51.0 ⁷	61.92 ²⁶	59.3 ⁷
31	37.65 ²³	48.9 ¹⁰	41.66 ³⁹	54.3 ²¹	26.33 ²⁶	51.7 ⁷	62.18 ²⁴	60.0 ¹¹
April 10	37.88 ²¹	49.9 ¹⁴	42.05 ³³	56.4 ²⁵	26.59 ²⁵	52.4 ⁵	62.42 ²¹	61.1 ¹⁵
20	38.09 ¹⁸	51.3 ¹⁷	42.38 ²⁶	58.9 ²⁹	26.84 ²²	52.9 ⁵	62.63 ¹⁹	62.6 ¹⁸
30	38.27 ¹⁵	53.0 ¹⁹	42.64 ²⁰	61.8 ³¹	27.06 ¹⁹	53.4 ⁵	62.82 ¹⁶	64.4 ²⁰
Mai 10	38.42 ¹²	54.9 ²¹	42.84 ¹²	64.9 ³³	27.25 ¹⁶	53.9 ⁴	62.98 ¹²	66.4 ²²
20	38.54 ⁹	57.0 ²²	42.96 ⁴	68.2 ³³	27.41 ¹³	54.3 ⁴	63.10 ¹⁰	68.6 ²³
30	38.63 ⁵	59.2 ²¹	43.00 [—]	71.5 ³³	27.54 ⁹	54.7 ³	63.20 ⁶	70.9 ²²
Juni 9	38.68 ²	61.3 ²⁰	42.97 ³	74.8 ³¹	27.63 ⁵	55.0 ³	63.26 ²	73.1 ²²
19	38.70 [—]	63.3 ¹⁹	42.87 ¹⁷	77.9 ²⁸	27.68 ²	55.3 ³	63.28 [—]	75.3 ²¹
29	38.68 ⁶	65.2 ¹⁸	42.70 ²⁴	80.7 ²⁵	27.70 [—]	55.6 ²	63.26 ⁵	77.4 ¹⁸
Juli 9	38.62 ⁹	67.0 ¹⁵	42.46 ³⁰	83.2 ²²	27.68 ⁷	55.8 ¹	63.21 ⁹	79.2 ¹⁷
19	38.53 ¹²	68.5 ¹³	42.16 ³⁵	85.4 ¹⁷	27.61 ¹⁰	55.9 ¹	63.12 ¹¹	80.9 ¹⁴
29	38.41 ¹⁴	69.8 ¹¹	41.81 ³⁹	87.1 ¹³	27.51 ¹³	56.0 [—]	63.01 ¹⁵	82.3 ¹¹
Aug. 8	38.27 ¹⁷	70.9 ⁷	41.42 ⁴³	88.4 ⁷	27.38 ¹⁵	55.9 ¹	62.86 ¹⁷	83.4 ⁸
18	38.10 ¹⁸	71.6 ⁵	40.99 ⁴⁵	89.1 ³	27.23 ¹⁸	55.8 ²	62.69 ¹⁹	84.2 ⁵
28	37.92 ¹⁹	72.1 ¹	40.54 ⁴⁶	89.4 ³	27.05 ¹⁹	55.6 ⁴	62.50 ²⁰	84.7 [—]
Sept. 7	37.73 ¹⁹	72.2 [—]	40.08 ⁴⁶	89.1 ⁸	26.86 ¹⁹	55.2 ⁵	62.30 ¹⁹	84.8 [—]
17	37.54 ¹⁸	71.9 ⁵	39.62 ⁴⁴	88.3 ¹²	26.67 ¹⁸	54.7 ⁵	62.11 ¹⁹	84.6 ²
27	37.36 ¹⁷	71.4 ⁹	39.18 ⁴¹	87.1 ¹⁸	26.49 ¹⁶	54.2 ⁵	61.92 ¹⁷	84.1 ⁵
Oct. 7	37.19 ¹³	70.5 ¹²	38.77 ³⁶	85.3 ²³	26.33 ¹³	53.7 ⁶	61.75 ¹⁵	83.1 ¹²
17	37.06 ¹⁰	69.3 ¹⁵	38.41 ³⁰	83.0 ²⁶	26.20 ⁹	53.1 ⁷	61.60 ¹²	81.9 ¹⁶
27	36.96 ⁶	67.8 ¹⁸	38.11 ²⁴	80.4 ³⁰	26.11 ⁴	52.4 ⁵	61.48 ⁷	80.3 ¹⁹
Nov. 6	36.90 ²	66.0 ²¹	37.87 ¹⁵	77.4 ³³	26.07 [—]	51.9 ⁵	61.41 ²	78.4 ²¹
16	36.88 [—]	63.9 ²⁴	37.72 ⁷	74.1 ³⁶	26.08 ⁷	51.4 ³	61.39 [—]	76.3 ²⁴
26	36.92 ⁴	61.5 ²⁷	37.65 [—]	70.5 ⁴¹	26.15 ¹³	51.1 ²	61.42 ⁹	73.9 ²⁹
Dec. 6	37.02 ¹⁰	58.8 ³⁰	37.69 ⁴	66.4 ³⁰	26.28 ¹³	50.9 ²	61.51 ³⁰	71.0 ²⁹
16	37.17 ¹⁵	56.2 ²⁶	37.81 ¹²	62.7 ³⁷	26.46 ¹⁸	50.9 ⁰	61.64 ¹³	68.3 ²⁷
26	37.36 ¹⁹	53.6 ²⁶	37.81 ²¹	62.7 ³⁶	26.46 ²²	50.9 ²	61.64 ¹⁸	68.3 ²⁷
36	37.58 ²²	51.0 ²⁶	38.02 ³⁰	59.1 ³²	26.68 ²⁷	51.1 ⁴	61.82 ²²	65.6 ²⁶
	37.58 ²²	51.0 ²⁶	38.32 ³⁰	55.9 ³²	26.95 ²⁷	51.5 ⁴	62.04 ²²	63.0 ²⁶
Mittl. Ort	35.75	58.9	40.11	68.9	23.79	54.0	60.34	70.3
	225)		226)		596)		228)	

1902	A Draconis. 5 ^m .0.		σ Herculis. 4 ^m .1.		ζ Ophiuchi. 2 ^m .6.		η Herculis. 3 ^m .1.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +
	16 ^h 28 ^m	68° 58'	16 ^h 30 ^m	42° 38'	16 ^h 31 ^m	10° 22'	16 ^h 39 ^m	39° 6'
Jan. 0	6.41 ³⁹	43.2 ³²	55.29 ²⁶	16.5 ³¹	45.28 ²⁶	2.2 ¹²	30.99 ²⁴	28.8 ³¹
10	6.80 ⁴⁹	40.0 ²⁹	55.55 ²⁹	13.4 ²⁷	45.54 ²⁷	3.4 ¹²	31.23 ²⁸	25.7 ²⁷
20	7.29 ⁵⁶	37.1 ²³	55.84 ³³	10.7 ²³	45.81 ²⁹	4.6 ¹¹	31.51 ³¹	23.0 ²⁴
30	7.85 ⁶¹	34.8 ¹⁷	56.17 ³⁴	8.4 ¹⁹	46.10 ³⁰	5.7 ¹¹	31.82 ³³	20.6 ¹⁹
Febr. 9	8.46 ⁶⁵	33.1 ¹¹	56.51 ³⁶	6.5 ¹³	46.40 ³¹	6.8 ¹⁰	32.15 ³⁴	18.7 ¹⁴
19	9.11 ⁶⁶	32.0 ⁴	56.87 ³⁶	5.2 ⁷	46.71 ³⁰	7.8 ⁸	32.49 ³⁴	17.3 ⁷
März 1	9.77 ⁶⁵	31.6 ²	57.23 ³⁵	4.5 ⁰	47.01 ³⁰	8.6 ⁶	32.83 ³⁴	16.6 ²
11	10.42 ⁶¹	31.8 ¹⁰	57.58 ³⁴	4.5 ⁶	47.31 ²⁸	9.2 ⁴	33.17 ³²	16.4 ⁵
21	11.03 ⁵⁷	32.8 ¹⁵	57.92 ³¹	5.1 ¹¹	47.59 ²⁶	9.6 ²	33.49 ³¹	16.9 ¹⁰
31	11.60 ⁵¹	34.3 ²¹	58.23 ²⁸	6.2 ¹⁷	47.85 ²⁵	9.8 ⁰	33.80 ²⁸	17.9 ¹⁵
April 10	12.11 ⁴²	36.4 ²⁶	58.51 ²⁵	7.9 ²¹	48.10 ²³	9.8 ²	34.08 ²⁵	19.4 ²⁰
20	12.53 ³⁴	39.0 ²⁹	58.76 ²¹	10.0 ²⁵	48.33 ²⁰	9.6 ³	34.33 ²¹	21.4 ²⁴
30	12.87 ²⁴	41.9 ³¹	58.97 ¹⁷	12.5 ²⁸	48.53 ¹⁸	9.3 ⁴	34.54 ¹⁸	23.8 ²⁶
Mai 10	13.11 ¹⁴	45.0 ³³	59.14 ¹³	15.3 ²⁹	48.71 ¹⁵	8.9 ⁶	34.72 ¹⁴	26.4 ²⁸
20	13.25 ³	48.3 ³⁴	59.27 ⁸	18.2 ³⁰	48.86 ¹²	8.3 ⁶	34.86 ⁹	29.2 ²⁹
30	13.28 ⁶	51.7 ³³	59.35 ⁴	21.2 ³⁰	48.98 ⁹	7.7 ⁶	34.95 ⁵	32.1 ²⁹
Juni 9	13.22 ¹⁶	55.0 ³¹	59.39 ¹	24.2 ²⁸	49.07 ⁵	7.1 ⁶	35.00 ¹	35.0 ²⁹
19	13.06 ²⁶	58.1 ²⁹	59.38 ⁶	27.0 ²⁷	49.12 ²	6.5 ⁶	35.01 ⁴	37.9 ²⁶
29	12.80 ³⁴	61.0 ²⁵	59.32 ¹⁰	29.7 ²⁴	49.14 ²	5.9 ⁶	34.97 ⁸	40.5 ²⁴
Juli 9	12.46 ⁴²	63.5 ²²	59.22 ¹⁴	32.1 ²¹	49.12 ⁵	5.3 ⁵	34.89 ¹²	42.9 ²²
19	12.04 ⁴⁹	65.7 ¹⁸	59.08 ¹⁹	34.2 ¹⁸	49.07 ⁸	4.8 ⁵	34.77 ¹⁶	45.1 ¹⁸
29	11.55 ⁵⁵	67.5 ¹³	58.89 ²¹	36.0 ¹⁴	48.99 ¹²	4.3 ⁵	34.61 ¹⁹	46.9 ¹⁴
Aug. 8	11.00 ⁵⁹	68.8 ⁸	58.68 ²⁴	37.4 ⁹	48.87 ¹⁴	3.8 ⁴	34.42 ²²	48.3 ¹⁰
18	10.41 ⁶¹	69.6 ²	58.44 ²⁶	38.3 ⁵	48.73 ¹⁶	3.4 ³	34.20 ²⁵	49.3 ⁶
28	9.80 ⁶³	69.8 ²	58.18 ²⁷	38.8 ⁰	48.57 ¹⁷	3.1 ³	33.95 ²⁵	49.9 ¹
Sept. 7	9.17 ⁶³	69.6 ⁸	57.91 ²⁸	38.8 ⁴	48.40 ¹⁸	2.8 ²	33.70 ²⁶	50.0 ³
17	8.54 ⁶⁰	68.8 ¹³	57.63 ²⁶	38.4 ⁹	48.22 ¹⁷	2.6 ²	33.44 ²⁵	49.7 ⁷
27	7.94 ⁵⁷	67.5 ¹⁷	57.37 ²⁵	37.5 ¹⁴	48.05 ¹⁵	2.4 ¹	33.19 ²³	49.0 ¹²
Oct. 7	7.37 ⁵¹	65.8 ²³	57.12 ²¹	36.1 ¹⁸	47.90 ¹²	2.3 ⁰	32.96 ²¹	47.8 ¹⁷
17	6.86 ⁴⁴	63.5 ²⁷	56.91 ¹⁷	34.3 ²²	47.78 ⁹	2.3 ²	32.75 ¹⁷	46.1 ²¹
27	6.42 ³⁵	60.8 ³⁰	56.74 ¹³	32.1 ²⁶	47.69 ⁵	2.5 ³	32.58 ¹²	44.0 ²⁴
Nov. 6	6.07 ²⁵	57.8 ³³	56.61 ⁸	29.5 ²⁹	47.64 ⁰	2.8 ⁴	32.46 ⁷	41.6 ²⁷
16	5.82 ¹⁴	54.5 ³⁶	56.53 ¹	26.6 ³²	47.64 ⁵	3.2 ⁷	32.39 ¹	38.9 ³¹
26	5.68 ²	50.9 ⁴¹	56.52 ⁶	23.4 ³⁷	47.69 ¹¹	3.9 ⁹	32.38 ⁵	35.8 ³⁵
Dec. 6	5.66 ¹¹	46.8 ³⁷	56.58 ¹²	19.7 ³⁴	47.80 ¹⁵	4.8 ⁹	32.43 ¹¹	32.3 ³³
16	5.77 ²³	43.1 ³⁶	56.70 ¹⁸	16.3 ³⁴	47.95 ¹⁹	5.7 ¹¹	32.54 ¹⁶	29.0 ³³
26	6.00 ³⁵	39.5 ³⁴	56.88 ²³	12.9 ³²	48.14 ²³	6.8 ¹²	32.70 ²²	25.7 ³²
36	6.35	36.1	57.11	9.7	48.37	8.0	32.92	22.5
Mittl. Ort	10.16	48.7	56.59	19.6	45.65	7.9	32.18	30.7
	229)		230)		597)		232)	

1902	Gr. 2377. 5 ^m .o.		49 Herculis. 6 ^m .o.		z Ophiuchi. 3 ^m .3.		ε Herculis. 3 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	16 ^h 43 ^m	56° 57'	16 ^h 47 ^m	15° 8'	16 ^h 53 ^m	9° 31'	16 ^h 56 ^m	31° 4'
Jan. 0	24.19 ²⁸	21.1 ³³	36.47 ²²	20.0 ²³	I.II ²²	41.2 ²¹	31.39 ²²	13.9 ²⁸
10	24.47 ³⁴	17.8 ³⁰	36.69 ²⁵	17.7 ²²	I.33 ²⁴	39.1 ²⁰	31.61 ²⁵	11.1 ²⁷
20	24.81 ³⁸	14.8 ²⁵	36.94 ²⁸	15.5 ¹⁹	I.57 ²⁷	37.1 ¹⁷	31.86 ²⁸	8.4 ²⁴
30	25.19 ⁴³	12.3 ²⁰	37.22 ²⁹	13.6 ¹⁶	I.84 ²⁸	35.4 ¹⁵	32.14 ³⁰	6.0 ¹⁹
Febr. 9	25.62 ⁴⁴	10.3 ¹³	37.51 ²⁹	12.0 ¹³	2.12 ²⁹	33.9 ¹²	32.44 ³¹	4.1 ¹⁴
19	26.06 ⁴⁶	9.0 ⁸	37.80 ³⁰	10.7 ⁸	2.41 ³⁰	32.7 ⁹	32.75 ³²	2.7 ⁹
März 1	26.52 ⁴⁵	8.2 ⁰	38.10 ²⁹	9.9 ⁴	2.71 ²⁸	31.8 ⁴	33.07 ³²	1.8 ³
11	26.97 ⁴⁴	8.2 ⁷	38.39 ²⁸	9.5 ⁰	2.99 ²⁸	31.4 ¹	33.39 ³⁰	1.5 ²
21	27.41 ⁴⁰	8.9 ¹²	38.67 ²⁶	9.5 ⁵	3.27 ²⁷	31.3 ⁴	33.69 ²⁹	1.7 ⁷
31	27.81 ³⁷	10.1 ¹⁸	38.93 ²⁵	10.0 ⁹	3.54 ²⁵	31.7 ⁷	33.98 ²⁸	2.4 ¹³
April 10	28.18 ³³	11.9 ²³	39.18 ²³	10.9 ¹²	3.79 ²³	32.4 ¹⁰	34.26 ²⁴	3.7 ¹⁷
20	28.51 ²⁷	14.2 ²⁸	39.41 ²⁰	12.1 ¹⁵	4.02 ²¹	33.4 ¹³	34.50 ²²	5.4 ²¹
30	28.78 ²¹	17.0 ³⁰	39.61 ¹⁸	13.6 ¹⁸	4.23 ¹⁸	34.7 ¹⁵	34.72 ¹⁹	7.5 ²³
Mai 10	28.99 ¹⁶	20.0 ³²	39.79 ¹⁵	15.4 ¹⁹	4.41 ¹⁶	36.2 ¹⁷	34.91 ¹⁶	9.8 ²⁶
20	29.15 ⁸	23.2 ³³	39.94 ¹²	17.3 ²⁰	4.57 ¹²	37.9 ¹⁷	35.07 ¹²	12.4 ²⁷
30	29.23 ³	26.5 ³³	40.06 ⁸	19.3 ²⁰	4.69 ⁹	39.6 ¹⁷	35.19 ⁸	15.1 ²⁷
Juni 9	29.26 ⁴	29.8 ³¹	40.14 ⁵	21.3 ¹⁹	4.78 ⁶	41.3 ¹⁸	35.27 ³	17.8 ²⁶
19	29.22 ¹¹	32.9 ³⁰	40.19 ¹	23.2 ¹⁹	4.84 ²	43.1 ¹⁶	35.30 ⁰	20.4 ²⁶
29	29.11 ¹⁷	35.9 ²⁷	40.20 ²	25.1 ¹⁸	4.86 ¹	44.7 ¹⁶	35.30 ⁴	23.0 ²³
Juli 9	28.94 ²²	38.6 ²⁴	40.18 ⁶	26.9 ¹⁶	4.85 ⁵	46.3 ¹⁴	35.26 ⁹	25.3 ²¹
19	28.72 ²⁷	41.0 ¹⁹	40.12 ⁹	28.5 ¹³	4.80 ⁹	47.7 ¹²	35.17 ¹²	27.4 ¹⁸
29	28.45 ³²	42.9 ¹⁶	40.03 ¹³	29.8 ¹¹	4.71 ¹²	48.9 ¹⁰	35.05 ¹⁶	29.2 ¹⁵
Aug. 8	28.13 ³⁵	44.5 ¹¹	39.90 ¹⁶	30.9 ⁹	4.59 ¹⁴	49.9 ⁸	34.89 ¹⁸	30.7 ¹¹
18	27.78 ³⁸	45.6 ⁵	39.74 ¹⁷	31.8 ⁶	4.45 ¹⁶	50.7 ⁶	34.71 ²¹	31.8 ⁸
28	27.40 ³⁹	46.1 ¹	39.57 ¹⁸	32.4 ³	4.29 ¹⁸	51.3 ³	34.50 ²²	32.6 ³
Sept. 7	27.01 ⁴⁰	45.2 ⁴	39.39 ¹⁹	32.7 ⁰	4.11 ¹⁹	51.6 ⁰	34.28 ²³	32.9 ¹
17	26.61 ³⁹	45.8 ¹⁰	39.20 ¹⁹	32.7 ³	3.92 ¹⁸	51.6 ¹	34.05 ²³	32.8 ⁵
27	26.22 ³⁶	44.8 ¹⁴	39.01 ¹⁷	32.4 ⁶	3.74 ¹⁷	51.5 ⁵	33.82 ²¹	32.3 ⁹
Oct. 7	25.86 ³³	43.4 ¹⁹	38.84 ¹⁵	31.8 ⁹	3.57 ¹⁵	51.0 ⁷	33.61 ¹⁹	31.4 ¹³
17	25.53 ²⁹	41.5 ²⁴	38.69 ¹²	30.9 ¹³	3.42 ¹¹	50.3 ¹⁰	33.42 ¹⁶	30.1 ¹⁷
27	25.24 ²²	39.1 ²⁸	38.57 ⁸	29.6 ¹⁵	3.31 ⁸	49.3 ¹²	33.26 ¹²	28.4 ²⁰
Nov. 6	25.02 ¹⁶	36.3 ³¹	38.49 ⁴	28.1 ¹⁷	3.23 ⁴	48.1 ¹⁵	33.14 ⁷	26.4 ²⁴
16	24.86 ⁸	33.2 ³⁴	38.45 ¹	26.4 ²¹	3.19 ²	46.6 ¹⁷	33.07 ¹	24.0 ²⁶
26	24.78 ⁰	29.8 ⁴⁰	38.46 ⁵	24.3 ²⁴	3.21 ⁶	44.9 ¹⁹	33.06 ³	21.4 ²⁹
Dec. 6	24.78 ⁹	25.8 ³⁶	38.54 ¹¹	21.9 ²³	3.27 ¹²	43.0 ²²	33.09 ¹⁰	18.5 ³³
16	24.87 ¹⁷	22.2 ³⁶	38.65 ¹⁶	19.6 ²⁴	3.39 ¹⁶	40.8 ²¹	33.19 ¹⁵	15.2 ³⁰
26	25.04 ²⁴	18.6 ³⁵	38.81 ²¹	17.2 ²⁴	3.55 ²⁰	38.7 ²²	33.34 ¹⁹	12.2 ³⁰
36	25.28	15.1	39.02	14.8	3.75	36.5	33.53	9.2
Mittl. Ort	26.37	24.4	37.12	18.1	1.70	38.2	32.37	13.6
	477)		478)		233)		234)	

1902	η Ophiuchi. 2 ^m .3.		ζ Draconis. 3 ^m .0.		α Herculis. 3.2...4 ^m .0.		δ Herculis. 3 ^m .0.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	17 ^h 4 ^m	15° 36'	17 ^h 8 ^m	65° 49'	17 ^h 10 ^m	14° 29'	17 ^h 10 ^m	24° 57'
Jan. 0	44.90 ²³	7.0 ⁸	26.83 ²⁷	65.9 ³⁴	10.00 ²⁰	69.0 ²³	59.47 ²⁰	18.2 ²⁷
10	45.13 ²⁶	7.8 ⁸	27.10 ³⁶	62.5 ³¹	10.20 ²³	66.7 ²¹	59.67 ²⁴	15.5 ²⁵
20	45.39 ²⁸	8.6 ⁸	27.46 ⁴⁵	59.4 ²⁷	10.43 ²⁶	64.6 ¹⁹	59.91 ²⁶	13.0 ²²
30	45.67 ³⁰	9.4 ⁸	27.91 ⁵⁰	56.7 ²²	10.69 ²⁸	62.7 ¹⁷	60.17 ²⁸	10.8 ¹⁹
Febr. 9	45.97 ³⁰	10.2 ⁷	28.41 ⁵⁴	54.5 ¹⁶	10.97 ²⁹	61.0 ¹³	60.45 ³⁰	8.9 ¹⁵
19	46.27 ³¹	10.9 ⁶	28.95 ⁵⁷	52.9 ¹⁰	11.26 ²⁹	59.7 ⁸	60.75 ³¹	7.4 ⁹
März 1	46.58 ³⁰	11.5 ⁴	29.52 ⁵⁸	51.9 ²	11.55 ²⁹	58.9 ⁵	61.06 ³⁰	6.5 ⁵
11	46.88 ³⁰	11.9 ³	30.10 ⁵⁷	51.7 ⁴	11.84 ²⁸	58.4 ⁰	61.36 ²⁹	6.0 ¹
21	47.18 ²⁹	12.2 ²	30.67 ⁵⁵	52.1 ¹⁰	12.12 ²⁸	58.4 ⁴	61.65 ²⁹	6.1 ⁶
31	47.47 ²⁷	12.4 ⁰	31.22 ⁵⁰	53.1 ¹⁷	12.40 ²⁶	58.8 ⁸	61.94 ²⁷	6.7 ¹⁰
April 10	47.74 ²⁵	12.4 ¹	31.72 ⁴⁵	54.8 ²²	12.66 ²⁴	59.6 ¹²	62.21 ²⁵	7.7 ¹⁵
20	47.99 ²³	12.3 ²	32.17 ³⁸	57.0 ²⁶	12.90 ²²	60.8 ¹⁵	62.46 ²²	9.2 ¹⁹
30	48.22 ²¹	12.1 ³	32.55 ³¹	59.6 ³⁰	13.12 ²⁰	62.3 ¹⁷	62.68 ²⁰	11.1 ²¹
Mai 10	48.43 ¹⁹	11.8 ³	32.86 ²²	62.6 ³²	13.32 ¹⁷	64.0 ¹⁹	62.88 ¹⁷	13.2 ²³
20	48.62 ¹⁶	11.5 ⁴	33.08 ¹⁴	65.8 ³⁴	13.49 ¹⁴	65.9 ²⁰	63.05 ¹⁴	15.5 ²⁵
30	48.78 ¹²	11.1 ⁴	33.22 ⁴	69.2 ³⁴	13.63 ¹⁰	67.9 ²¹	63.19 ¹⁰	18.0 ²⁵
Juni 9	48.90 ⁹	10.7 ⁴	33.26 ⁴	72.6 ³³	13.73 ⁷	70.0 ²⁰	63.29 ⁶	20.5 ²⁴
19	48.99 ⁵	10.3 ⁴	33.22 ¹³	75.9 ³²	13.80 ³	72.0 ²⁰	63.35 ²	22.9 ²⁴
29	49.04 ¹	9.9 ⁴	33.09 ²²	79.1 ²⁹	13.83 ⁰	74.0 ¹⁸	63.37 ²	25.3 ²²
Juli 9	49.05 ³	9.5 ³	32.87 ²⁹	82.0 ²⁶	13.83 ⁴	75.8 ¹⁶	63.35 ⁶	27.5 ²⁰
19	49.02 ⁶	9.2 ³	32.58 ³⁷	84.6 ²³	13.79 ⁸	77.4 ¹⁵	63.29 ¹⁰	29.5 ¹⁸
29	48.96 ¹⁰	8.9 ²	32.21 ⁴³	86.9 ¹⁸	13.71 ¹²	78.9 ¹²	63.19 ¹³	31.3 ¹⁵
Aug. 8	48.86 ¹³	8.7 ³	31.78 ⁴⁸	88.7 ¹⁴	13.59 ¹⁴	80.1 ¹⁰	63.06 ¹⁶	32.8 ¹¹
18	48.73 ¹⁶	8.4 ²	31.30 ⁵²	90.1 ⁹	13.45 ¹⁷	81.1 ⁷	62.90 ¹⁹	33.9 ⁸
28	48.57 ¹⁸	8.2 ²	30.78 ⁵⁴	91.0 ⁴	13.28 ¹⁸	81.8 ⁴	62.71 ²⁰	34.7 ⁵
Sept. 7	48.39 ¹⁸	8.0 ²	30.24 ⁵⁶	91.4 ²	13.10 ²⁰	82.2 ¹	62.51 ²²	35.2 ¹
17	48.21 ¹⁸	7.8 ²	29.68 ⁵⁶	91.2 ⁶	12.90 ¹⁹	82.3 ²	62.29 ²¹	35.3 ³
27	48.03 ¹⁷	7.6 ²	29.12 ⁵³	90.6 ¹²	12.71 ¹⁸	82.1 ⁵	62.08 ²⁰	35.0 ⁷
Oct. 7	47.86 ¹⁴	7.4 ¹	28.59 ⁵⁰	89.4 ¹⁷	12.53 ¹⁶	81.6 ⁸	61.88 ¹⁹	34.3 ¹¹
17	47.72 ¹¹	7.3 ¹	28.09 ⁴⁴	87.7 ²²	12.37 ¹³	80.8 ¹¹	61.69 ¹⁵	33.2 ¹⁴
27	47.61 ⁸	7.2 ⁰	27.65 ³⁸	85.5 ²⁶	12.24 ¹⁰	79.7 ¹³	61.54 ¹¹	31.8 ¹⁷
Nov. 6	47.53 ³	7.2 ²	27.27 ²⁹	82.9 ³⁰	12.14 ⁶	78.4 ¹⁷	61.43 ⁷	30.1 ²¹
16	47.50 ²	7.4 ²	26.98 ²⁰	79.9 ³³	12.08 ⁰	77.7 ¹⁹	61.36 ³	28.0 ²⁴
26	47.52 ⁷	7.6 ⁴	26.78 ¹⁰	76.6 ³⁵	12.08 ⁴	74.8 ²¹	61.33 ³	25.6 ²⁵
Dec. 6	47.59 ¹³	8.0 ⁶	26.68 ¹	73.1 ⁴⁰	12.12 ¹⁰	72.7 ²⁴	61.36 ⁹	23.1 ³⁰
16	47.72 ¹⁷	8.6 ⁶	26.69 ¹²	69.1 ³⁷	12.22 ¹⁴	70.3 ²³	61.45 ¹⁴	20.1 ²⁸
26	47.89 ²¹	9.2 ⁸	26.81 ²³	65.4 ³⁶	12.36 ¹⁸	68.0 ²³	61.59 ¹⁷	17.3 ²⁷
36	48.10	10.0	27.04	61.8	12.54	65.7	61.76	14.6
Mittl. Ort	45.35	14.0	30.12	67.2	10.68	65.9	60.34	16.3
	598)		236)		237)		238)	

1902	π Herculis. 3 ^m .I.		θ Ophiuchi. 3 ^m .4.		β Draconis. 2 ^m .6.		α Ophiuchi. 2 ^m .0.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	17 ^h 11 ^m	36° 54'	17 ^h 15 ^m	24° 54'	17 ^h 28 ^m	52° 22'	17 ^h 30 ^m	12° 37'
Jan. 0	36.81	70.2	58.86	0.0	11.19	26.5	22.37	56.3
10	37.02	67.2	59.10	0.2	11.38	23.1	22.55	54.1
20	37.26	64.4	59.37	0.5	11.64	20.0	22.77	52.1
30	37.54	61.9	59.66	0.8	11.95	17.2	23.01	50.2
Febr. 9	37.84	59.8	59.97	1.2	12.30	14.8	23.28	48.6
19	38.16	58.2	60.29	1.6	12.68	13.0	23.56	47.3
März 1	38.49	57.2	60.61	2.0	13.08	11.8	23.84	46.4
11	38.82	56.8	60.93	2.4	13.49	11.2	24.13	45.9
21	39.15	56.9	61.25	2.7	13.90	11.3	24.42	45.8
31	39.46	57.7	61.56	3.0	14.29	12.1	24.70	46.1
April 10	39.76	59.0	61.85	3.2	14.66	13.5	24.97	46.9
20	40.03	60.7	62.13	3.3	15.01	15.4	25.22	48.0
30	40.27	62.9	62.39	3.4	15.31	17.7	25.46	49.4
Mai 10	40.48	65.4	62.62	3.5	15.57	20.5	25.67	51.0
20	40.65	68.1	62.83	3.6	15.79	23.5	25.86	52.8
30	40.78	71.0	63.01	3.8	15.94	26.7	26.02	54.8
Juni 9	40.87	73.9	63.16	3.9	16.04	30.1	26.14	56.8
19	40.92	76.8	63.26	4.0	16.09	33.3	26.23	58.8
29	40.92	79.6	63.33	4.1	16.07	36.5	26.29	60.7
Juli 9	40.88	82.2	63.35	4.3	15.99	39.5	26.30	62.5
19	40.79	84.6	63.33	4.5	15.85	42.3	26.27	64.2
29	40.66	86.6	63.27	4.6	15.66	44.7	26.21	65.6
Aug. 8	40.49	88.3	63.17	4.7	15.42	46.7	26.11	66.9
18	40.29	89.6	63.04	4.7	15.14	48.3	25.98	67.9
28	40.07	90.5	62.87	4.7	14.82	49.5	25.82	68.7
Sept. 7	39.82	91.0	62.69	4.6	14.48	50.2	25.64	69.2
17	39.57	91.1	62.50	4.5	14.13	50.4	25.45	69.4
27	39.32	90.7	62.30	4.2	13.77	50.1	25.26	69.3
Oct. 7	39.08	89.8	62.12	3.9	13.42	49.3	25.08	69.0
17	38.86	88.5	61.96	3.6	13.10	47.9	24.91	68.3
27	38.67	86.8	61.83	3.2	12.81	46.1	24.76	67.4
Nov. 6	38.52	84.7	61.75	2.8	12.57	43.9	24.65	66.2
16	38.42	82.2	61.71	2.4	12.38	41.2	24.59	64.7
26	38.37	79.4	61.72	2.1	12.25	38.2	24.56	63.0
Dec. 6	38.38	76.4	61.78	1.9	12.19	34.9	24.59	61.0
16	38.46	72.9	61.91	1.8	12.21	31.0	24.67	58.7
26	38.59	69.7	62.08	1.8	12.31	27.5	24.79	56.5
36	38.76	66.6	62.29	1.9	12.47	24.0	24.95	54.3
Mith. Ort	37.98	69.5	59.36	8.2	13.09	25.4	23.06	52.1
	239)		599)		240)		241)	

1902	ξ Serpentis. 3 ^m .6.		ε Herculis. 3 ^m .3.		ω Draconis. 5 ^m .0.		β Ophiuchi. 3 ^m .0.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.	AR.	Decl.
	17 ^h 31 ^m	15° 20'	17 ^h 36 ^m	46° 3'	17 ^h 37 ^m	68° 47'	17 ^h 38 ^m	4° 36'
Jan. 0	57.91 ⁵	6.4 ⁷	40.38 ¹⁸	31.8 ³³	27.64 ²²	72.9 ³⁵	37.19 ¹⁸	34.2 ¹⁸
10	58.11 ²⁰	7.1 ⁷	40.56 ²³	28.5 ³¹	27.86 ³³	69.4 ³²	37.37 ²²	32.4 ¹⁶
20	58.35 ²⁴	7.8 ⁷	40.79 ²⁸	25.4 ²⁸	28.19 ⁴³	66.2 ²⁹	37.59 ²⁴	30.8 ¹⁵
30	58.61 ²⁶	8.5 ⁶	41.07 ³¹	22.6 ²⁴	28.62 ⁵¹	63.3 ²⁵	37.83 ²⁶	29.3 ¹⁴
Febr. 9	58.89 ²⁸	9.1 ⁶	41.38 ³³	20.2 ¹⁸	29.13 ⁵⁷	60.8 ¹⁹	38.09 ²⁷	27.9 ¹¹
19	59.18 ³⁰	9.7 ⁴	41.71 ³⁶	18.4 ¹³	29.70 ⁶¹	58.9 ¹³	38.36 ²⁸	26.8 ⁸
März 1	59.48 ³¹	10.1 ⁴	42.07 ³⁷	17.1 ⁷	30.31 ⁶⁴	57.6 ⁶	38.64 ²⁹	26.0 ⁵
11	59.79 ³⁰	10.5 ²	42.44 ³⁷	16.4 ¹	30.95 ⁶⁵	57.0 ¹	38.93 ²⁸	25.5 ¹
21	60.09 ²⁹	10.7 ⁰	42.81 ³⁶	16.5 ⁶	31.60 ⁶³	57.1 ⁷	39.21 ²⁸	25.4 ³
31	60.38 ²⁸	10.7 ²	43.17 ³⁴	17.1 ¹²	32.23 ⁶⁰	57.8 ¹³	39.49 ²⁷	25.7 ⁶
April 10	60.66 ²⁷	10.5 ²	43.51 ³²	18.3 ¹⁸	32.83 ⁵⁴	59.1 ¹⁹	39.76 ²⁶	26.3 ⁹
20	60.93 ²⁵	10.3 ⁴	43.83 ²⁸	20.1 ²²	33.37 ⁴⁸	61.0 ²⁴	40.02 ²⁴	27.2 ¹¹
30	61.18 ²⁴	9.9 ⁴	44.11 ²⁵	22.3 ²⁶	33.85 ⁴⁰	63.4 ²⁹	40.26 ²²	28.3 ¹³
Mai 10	61.42 ²¹	9.5 ⁵	44.36 ²¹	24.9 ²⁹	34.25 ³¹	66.3 ³¹	40.48 ²⁰	29.6 ¹⁵
20	61.63 ¹⁸	9.0 ⁵	44.57 ¹⁷	27.8 ³¹	34.56 ²¹	69.4 ³³	40.68 ¹⁷	31.1 ¹⁶
30	61.81 ¹⁵	8.5 ⁵	44.74 ¹²	30.9 ³²	34.77 ¹¹	72.7 ³⁴	40.85 ¹⁴	32.7 ¹⁶
Juni 9	61.96 ¹¹	8.0 ⁵	44.86 ⁶	34.1 ³²	34.88 ¹	76.1 ³⁴	40.99 ¹⁰	34.3 ¹⁷
19	62.07 ⁸	7.5 ⁴	44.92 ¹	37.3 ³¹	34.89 ¹⁰	79.5 ³⁴	41.09 ⁷	36.0 ¹⁵
29	62.15 ³	7.1 ⁴	44.93 ⁴	40.4 ³⁰	34.79 ¹⁹	82.9 ³²	41.16 ²	37.5 ¹⁵
Juli 9	62.18 ¹	6.7 ⁴	44.89 ¹⁰	43.4 ²⁷	34.60 ²⁹	86.1 ²⁹	41.18 ¹	39.0 ¹³
19	62.17 ⁴	6.3 ²	44.79 ¹⁴	46.1 ²⁴	34.31 ³⁸	89.0 ²⁵	41.17 ⁵	40.3 ¹²
29	62.13 ⁹	6.1 ³	44.65 ¹⁹	48.5 ²¹	33.93 ⁴⁶	91.5 ²²	41.12 ⁸	41.5 ¹¹
Aug. 8	62.04 ¹²	5.8 ²	44.46 ²³	50.6 ¹⁷	33.47 ⁵²	93.7 ¹⁸	41.04 ¹²	42.6 ⁸
18	61.92 ¹⁴	5.6 ²	44.23 ²⁷	52.3 ¹²	32.95 ⁵⁸	95.5 ¹³	40.92 ¹⁵	43.4 ⁶
28	61.78 ¹⁷	5.4 ¹	43.96 ²⁹	53.5 ⁸	32.37 ⁶¹	96.8 ⁸	40.77 ¹⁷	44.0 ⁵
Sept. 7	61.61 ¹⁸	5.3 ²	43.67 ³⁰	54.3 ³	31.76 ⁶⁴	97.6 ³	40.60 ¹⁸	44.5 ²
17	61.43 ¹⁹	5.1 ¹	43.37 ³¹	54.6 ²	31.12 ⁶⁵	97.9 ²	40.42 ¹⁹	44.7 ⁰
27	61.24 ¹⁸	5.0 ¹	43.06 ³⁰	54.4 ⁶	30.47 ⁶⁴	97.7 ⁸	40.23 ¹⁸	44.7 ²
Oct. 7	61.06 ¹⁶	4.9 ⁰	42.76 ²⁸	53.8 ¹²	29.83 ⁶⁰	96.9 ¹³	40.05 ¹⁶	44.5 ⁴
17	60.90 ¹³	4.9 ⁰	42.48 ²⁵	52.6 ¹⁶	29.23 ⁵⁵	95.6 ¹⁸	39.89 ¹⁴	44.1 ⁷
27	60.77 ⁹	4.9 ⁰	42.23 ²¹	51.0 ²¹	28.68 ⁴⁹	93.8 ²²	39.75 ¹⁰	43.4 ⁸
Nov. 6	60.68 ⁵	4.9 ²	42.02 ¹⁶	48.9 ²⁵	28.19 ⁴¹	91.6 ²⁷	39.65 ⁷	42.6 ¹¹
16	60.63 ¹	5.1 ²	41.86 ¹⁰	46.4 ²⁹	27.78 ³¹	88.9 ³¹	39.58 ³	41.5 ¹³
26	60.62 ¹¹	5.3 ⁴	41.76 ⁵	43.5 ³¹	27.47 ²⁰	85.8 ³³	39.55 ³	40.2 ¹⁵
Dec. 6	60.66 ¹¹	5.7 ⁵	41.71 ²	40.4 ³⁴	27.27 ⁹	82.5 ³⁵	39.58 ⁷	38.7 ¹⁶
16	60.77 ¹⁴	6.2 ⁵	41.73 ⁹	37.0 ³⁷	27.18 ⁴	79.0 ⁴⁰	39.65 ¹²	37.1 ¹⁹
26	60.91 ¹⁸	6.7 ⁷	41.82 ¹⁵	33.3 ³⁴	27.22 ¹⁶	75.0 ³⁶	39.77 ¹⁶	35.2 ¹⁸
36	61.09	7.4	41.97	29.9	27.38	71.4	39.93	33.4
Mittl. Ort	58.43	13.5	41.93	29.5	31.49	71.3	37.82	28.9
	(600)		(244)		(483)		(245)	

1902	μ Herculis. 3 ^m .3.		ϕ Drac. austr. 4 ^m .6.		ξ Draconis. 3 ^m .3.		† Herculis. 4 ^m .0.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	17 ^h 42 ^m	27° 46'	17 ^h 43 ^m	72° 11'	17 ^h 51 ^m	56° 53'	17 ^h 52 ^m	37° 15'
Jan. 0	36.42 ¹⁷	43.4 ²⁸	35.96 ²³	51.6 ³⁵	48.06 ¹⁷	19.5 ³⁵	52.23 ¹⁵	51.8 ³⁰
10	36.59 ²¹	40.6 ²⁷	36.19 ³⁵	48.1 ³³	48.23 ²³	16.0 ³³	52.38 ²⁰	48.8 ²⁹
20	36.80 ²⁴	37.9 ²⁴	36.54 ⁴⁷	44.8 ³⁰	48.46 ³⁰	12.7 ³⁰	52.58 ²⁴	45.9 ²⁷
30	37.04 ²⁶	35.5 ²¹	37.01 ⁵⁷	41.8 ²⁵	48.76 ³⁵	9.7 ²⁵	52.82 ²⁸	43.2 ²³
Febr. 9	37.30 ²⁹	33.4 ¹⁶	37.58 ⁶⁶	39.3 ¹⁹	49.11 ³⁹	7.2 ²¹	53.10 ³⁰	40.9 ¹⁹
19	37.59 ³⁰	31.8 ¹²	38.24 ⁷¹	37.4 ¹⁴	49.50 ⁴³	5.1 ¹⁴	53.40 ³¹	39.0 ¹³
März 1	37.89 ³⁰	30.6 ⁶	38.95 ⁷⁴	36.0 ⁸	49.93 ⁴⁴	3.7 ⁸	53.71 ³³	37.7 ⁸
11	38.19 ³¹	30.0 ¹	39.69 ⁷⁵	35.2 ⁰	50.37 ⁴⁵	2.9 ²	54.04 ³³	36.9 ¹
21	38.50 ³⁰	29.9 ⁴	40.44 ⁷⁴	35.2 ⁶	50.82 ⁴⁴	2.7 ⁵	54.37 ³²	36.8 ⁴
31	38.80 ²⁸	30.3 ¹⁰	41.18 ⁷⁰	35.8 ¹³	51.26 ⁴³	3.2 ¹²	54.69 ³²	37.2 ¹⁰
April 10	39.08 ²⁸	31.3 ¹⁴	41.88 ⁶⁵	37.1 ¹⁹	51.69 ³⁹	4.4 ¹⁷	55.01 ³⁰	38.2 ¹⁶
20	39.36 ²⁵	32.7 ¹⁸	42.53 ⁵⁶	39.0 ²³	52.08 ³⁶	6.1 ²³	55.31 ²⁷	39.8 ²⁰
30	39.61 ²³	34.5 ²¹	43.09 ⁴⁷	41.3 ²⁷	52.44 ³²	8.4 ²⁷	55.58 ²⁵	41.8 ²³
Mai 10	39.84 ²⁰	36.6 ²⁴	43.56 ³⁶	44.0 ³¹	52.76 ²⁶	11.1 ³⁰	55.83 ²²	44.1 ²⁷
20	40.04 ¹⁶	39.0 ²⁶	43.92 ²⁵	47.1 ³³	53.02 ²⁰	14.1 ³²	56.05 ¹⁷	46.8 ²⁹
30	40.20 ¹³	41.6 ²⁶	44.17 ¹³	50.4 ³⁴	53.22 ¹⁴	17.3 ³⁴	56.22 ¹⁴	49.7 ³⁰
Juni 9	40.33 ⁹	44.2 ²⁷	44.30 ¹	53.8 ³⁴	53.36 ⁷	20.7 ³⁴	56.36 ¹⁰	52.7 ³⁰
19	40.42 ⁴	46.9 ²⁶	44.31 ¹²	57.2 ³³	53.43 ⁰	24.1 ³³	56.46 ⁴	55.7 ²⁹
29	40.46 ¹	49.5 ²⁴	44.19 ²³	60.5 ³²	53.43 ⁷	27.4 ³²	56.50 ⁰	58.6 ²⁸
Juli 9	40.47 ⁴	51.9 ²³	43.96 ³⁵	63.7 ²⁹	53.36 ¹³	30.6 ³⁰	56.50 ⁵	61.4 ²⁷
19	40.43 ⁸	54.2 ²⁰	43.61 ⁴⁵	66.6 ²⁷	53.23 ²⁰	33.6 ²⁷	56.45 ¹⁰	64.1 ²⁴
29	40.35 ¹²	56.2 ¹⁷	43.16 ⁵⁴	69.3 ²²	53.03 ²⁵	36.3 ²³	56.35 ¹³	66.5 ²⁰
Aug. 8	40.23 ¹⁵	57.9 ¹⁵	42.62 ⁶³	71.5 ¹⁸	52.78 ³⁰	38.6 ¹⁹	56.22 ¹⁸	68.5 ¹⁷
18	40.08 ¹⁹	59.4 ¹¹	41.99 ⁶⁹	73.3 ¹⁴	52.48 ³⁵	40.5 ¹⁵	56.04 ²¹	70.2 ¹⁴
28	39.89 ²¹	60.5 ⁷	41.30 ⁷³	74.7 ⁹	52.13 ³⁸	42.0 ¹⁰	55.83 ²⁴	71.6 ⁹
Sept. 7	39.68 ²²	61.2 ³	40.57 ⁷⁷	75.6 ³	51.75 ⁴⁰	43.0 ⁵	55.59 ²⁵	72.5 ⁵
17	39.46 ²²	61.5 ¹	39.80 ⁷⁸	75.9 ¹	51.35 ⁴¹	43.5 ⁰	55.34 ²⁶	73.0 ⁰
27	39.24 ²²	61.4 ⁵	39.02 ⁷⁶	75.8 ⁷	50.94 ⁴⁰	43.5 ⁵	55.08 ²⁵	73.0 ⁴
Oct. 7	39.02 ²¹	60.9 ⁸	38.26 ⁷³	75.1 ¹²	50.54 ³⁸	43.0 ¹¹	54.83 ²⁴	72.6 ⁹
17	38.81 ¹⁸	60.1 ¹³	37.53 ⁶⁸	73.9 ¹⁷	50.16 ³⁶	41.9 ¹⁵	54.59 ²²	71.7 ¹⁴
27	38.63 ¹⁴	58.8 ¹⁶	36.85 ⁶¹	72.2 ²²	49.80 ³¹	40.4 ²¹	54.37 ¹⁸	70.3 ¹⁷
Nov. 6	38.49 ¹¹	57.2 ²¹	36.24 ⁵¹	70.0 ²⁷	49.49 ²⁵	38.3 ²⁴	54.19 ¹⁴	68.6 ²²
16	38.38 ⁶	55.1 ²³	35.73 ⁴⁰	67.3 ³⁰	49.24 ¹⁹	35.9 ²⁹	54.05 ¹⁰	66.4 ²⁵
26	38.32 ¹	52.8 ²⁵	35.33 ²⁸	64.3 ³³	49.05 ¹²	33.0 ³²	53.95 ⁴	63.9 ²⁸
Dec. 6	38.31 ⁵	50.3 ²⁸	35.05 ¹⁵	61.0 ³⁵	48.93 ⁴	29.8 ³⁵	53.91 ²	61.1 ³⁰
16	38.36 ¹⁰	47.5 ³¹	34.90 ¹	57.5 ³⁹	48.89 ⁵	26.3 ³⁹	53.93 ⁸	58.1 ³⁵
26	38.46 ¹⁴	44.4 ²⁹	34.91 ¹⁴	53.6 ³⁷	48.94 ¹²	22.4 ³⁵	54.01 ¹³	54.6 ³²
36	38.60	41.5	35.05	49.9	49.06	18.9	54.14	51.4
Mittl. Ort	37.38	39.7	40.67	49.3	50.29	16.3	53.43	48.0
	246)		184)		248)		249)	

1902	v Ophiuchi. 3 ^m .6.		35 Draconis. 5 ^m .0.		γ Draconis. 2 ^m .3.		67 Ophiuchi. 4 ^m .0.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	17 ^h 53 ^m	9° 45'	17 ^h 53 ^m	76° 58'	17 ^h 54 ^m	51° 29'	17 ^h 55 ^m	2° 56'
Jan. 0	37.25 ¹⁸	34.8 ⁹	43.53 ²²	36.7 ³⁴	17.96 ¹⁵	64.1 ³⁵	43.65 ¹⁷	15.7 ¹⁶
10	37.43 ²¹	35.7 ⁹	43.75 ⁴⁰	33.3 ³³	18.11 ²²	60.6 ³²	43.82 ²⁰	14.1 ¹⁶
20	37.64 ²⁴	36.6 ⁹	44.15 ⁵⁶	30.0 ³⁰	18.33 ²⁷	57.4 ²⁹	44.02 ²³	12.5 ¹⁴
30	37.88 ²⁷	37.5 ⁷	44.71 ⁷²	27.0 ²⁶	18.60 ³²	54.5 ²⁶	44.25 ²⁵	11.1 ¹³
Febr. 9	38.15 ²⁸	38.2 ⁷	45.43 ⁸³	24.4 ²⁰	18.92 ³⁵	51.9 ²⁰	44.50 ²⁶	9.8 ¹⁰
19	38.43 ²⁸	38.9 ⁴	46.26 ⁹²	22.4 ¹⁵	19.27 ³⁸	49.9 ¹⁵	44.76 ²⁸	8.8 ⁸
März 1	38.71 ²⁹	39.3 ³	47.18 ⁹⁸	20.9 ⁸	19.65 ³⁹	48.4 ⁸	45.04 ²⁸	8.0 ⁴
11	39.00 ²⁹	39.6 ¹	48.16 ¹⁰⁰	20.1 ¹	20.04 ⁴⁰	47.6 ²	45.32 ²⁹	7.6 ¹
21	39.29 ²⁹	39.7 [—]	49.16 ⁹⁹	20.0 [—]	20.44 ⁴⁰	47.4 [—]	45.61 ²⁹	7.5 [—]
31	39.58 ²⁹	39.6 ¹	50.15 ⁹⁵	20.5 ⁵	20.84 ³⁹	47.9 ⁵	45.89 ²⁷	7.8 ³
April 10	39.87 ²⁷	39.2 ⁵	51.10 ⁸⁷	21.6 ¹⁸	21.23 ³⁶	49.0 ¹⁷	46.16 ²⁷	8.3 ⁹
20	40.14 ²⁶	38.7 ⁷	51.97 ⁷⁶	23.4 ²²	21.59 ³²	50.7 ²¹	46.43 ²⁵	9.2 ¹¹
30	40.40 ²⁴	38.0 ⁷	52.73 ⁶⁴	25.6 ²⁶	21.91 ²⁹	52.8 ²⁶	46.68 ²⁴	10.3 ¹³
Mai 10	40.64 ²²	37.3 ⁹	53.37 ⁵⁰	28.2 ³⁰	22.20 ²⁵	55.4 ³⁰	46.92 ²¹	11.6 ¹⁴
20	40.86 ¹⁹	36.4 ⁹	53.87 ³⁴	31.2 ³³	22.45 ¹⁹	58.4 ³¹	47.13 ¹⁸	13.0 ¹⁶
30	41.05 ¹⁷	35.5 ⁹	54.21 ¹⁸	34.5 ³⁴	22.64 ¹⁴	61.5 ³³	47.31 ¹⁵	14.6 ¹⁶
Juni 9	41.22 ¹³	34.6 ⁸	54.39 ¹	37.9 ³⁴	22.78 ⁸	64.8 ³⁴	47.46 ¹²	16.2 ¹⁵
19	41.35 ⁹	33.8 ⁸	54.40 ¹⁶	41.3 ³³	22.86 ²	68.2 ³³	47.58 ⁹	17.7 ¹⁵
29	41.44 ⁵	33.0 ⁸	54.24 ³²	44.6 ³²	22.88 [—]	71.5 ³¹	47.67 ⁴	19.2 ¹⁵
Juli 9	41.49 ¹	32.2 ⁷	53.92 ⁴⁷	47.8 ³⁰	22.85 ¹⁰	74.6 ²⁹	47.71 ¹	20.7 ¹³
19	41.50 ³	31.5 ⁵	53.45 ⁶¹	50.8 ²⁷	22.75 ¹⁶	77.5 ²⁷	47.72 [—]	22.0 ¹²
29	41.47 ⁷	31.0 ⁵	52.84 ⁷⁴	53.5 ²³	22.59 ²¹	80.2 ²³	47.68 ⁴	23.2 ¹⁰
Aug. 8	41.40 ¹¹	30.5 ⁴	52.10 ⁸⁶	55.8 ²⁰	22.38 ²⁵	82.5 ¹⁹	47.61 ¹¹	24.2 ⁸
18	41.29 ¹⁴	30.1 ³	51.24 ⁹³	57.8 ¹⁵	22.13 ³⁰	84.4 ¹⁵	47.50 ¹⁴	25.0 ⁶
28	41.15 ¹⁶	29.8 ²	50.31 ¹⁰¹	59.3 ¹⁰	21.83 ³²	85.9 ¹⁰	47.36 ¹⁶	25.6 ⁵
Sept. 7	40.99 ¹⁷	29.6 ¹	49.30 ¹⁰⁶	60.3 ⁵	21.51 ³⁴	86.9 ⁵	47.20 ¹⁸	26.1 ²
17	40.82 ¹⁹	29.5 ¹	48.24 ¹⁰⁷	60.8 ⁰	21.17 ³⁵	87.4 ¹	47.02 ¹⁹	26.3 ¹
27	40.63 ¹⁸	29.4 [—]	47.17 ¹⁰⁶	60.8 ⁵	20.82 ³⁵	87.5 [—]	46.83 ¹⁸	26.4 [—]
Oct. 7	40.45 ¹⁶	29.5 ¹	46.11 ¹⁰³	60.3 ¹⁰	20.47 ³³	87.0 ¹⁰	46.65 ¹⁷	26.3 ¹
17	40.29 ¹⁴	29.6 ²	45.08 ⁹⁷	59.3 ¹⁵	20.14 ³⁰	86.0 ¹⁵	46.48 ¹⁴	25.9 ⁶
27	40.15 ¹¹	29.8 ³	44.11 ⁸⁷	57.8 ²⁰	19.84 ²⁶	84.5 ²⁰	46.34 ¹²	25.3 ⁷
Nov. 6	40.04 ⁸	30.1 ⁴	43.24 ⁷⁵	55.8 ²⁵	19.58 ²²	82.5 ²⁴	46.22 ⁸	24.6 ¹⁰
16	39.96 ³	30.5 ⁵	42.49 ⁶²	53.3 ²⁹	19.36 ¹⁵	80.1 ²⁸	46.14 ³	23.6 ¹²
26	39.93 [—]	31.0 ⁶	41.87 ⁴⁵	50.4 ³²	19.21 ⁹	77.3 ³¹	46.11 ³	22.4 ¹³
Dec. 6	39.95 ⁷	31.6 ⁸	41.42 ²⁸	47.2 ³⁴	19.12 ³	74.2 ³³	46.12 ⁵	21.1 ¹⁵
16	40.02 ¹³	32.4 ⁹	41.14 ⁹	43.8 ³⁹	19.09 ⁶	70.9 ³⁸	46.17 ¹¹	19.6 ¹⁸
26	40.15 ¹⁶	33.3 ⁹	41.05 ¹²	39.9 ³⁵	19.15 ¹²	67.1 ³⁵	46.28 ¹⁵	17.8 ¹⁶
36	40.31	34.2	41.17	36.4	19.27	63.6	46.43	16.2
Mittl. Ort	37.83	41.5	50.15	33.4	19.79	60.5	44.28	9.9
	250)		485)		252)		253)	

1902	γ Sagittarii. 3 ^m .3.		72 Ophiuchi. 3 ^m .3.		ο Herculis. 3 ^m .8.		μ Sagittarii. 4 ^m .0.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.	AR.	Decl.
	17 ^h 59 ^m	30° 25'	18 ^h 2 ^m	9° 32'	18 ^h 3 ^m	28° 44'	18 ^h 7 ^m	21° 4'
Jan. 0	30.09	25.1	41.47	64.5	42.18	60.2	53.52	58.3
10	30.30	24.7	41.62	62.5	42.32	57.4	53.70	58.4
20	30.53	24.4	41.81	60.7	42.51	54.7	53.92	58.6
30	30.81	24.2	42.03	59.0	42.73	52.3	54.16	58.9
Febr. 9	31.10	24.0	42.28	57.5	42.98	50.1	54.43	59.1
19	31.41	23.9	42.54	56.2	43.26	48.4	54.71	59.2
März 1	31.74	23.8	42.81	55.3	43.55	47.1	55.01	59.3
11	32.07	23.8	43.09	54.8	43.85	46.4	55.32	59.3
21	32.41	23.7	43.38	54.7	44.16	46.2	55.62	59.3
31	32.74	23.7	43.66	55.0	44.46	46.5	55.93	59.1
April 10	33.06	23.7	43.94	55.6	44.76	47.4	56.24	58.9
20	33.38	23.7	44.21	56.6	45.04	48.7	56.53	58.6
30	33.68	23.7	44.46	57.9	45.31	50.5	56.82	58.2
Mai 10	33.96	23.8	44.70	59.5	45.56	52.6	57.09	57.8
20	34.22	23.9	44.91	61.2	45.78	55.0	57.33	57.5
30	34.45	24.1	45.10	63.1	45.96	57.6	57.55	57.1
Juni 9	34.65	24.3	45.26	65.0	46.11	60.3	57.74	56.8
19	34.80	24.7	45.38	66.9	46.22	63.1	57.89	56.5
29	34.92	25.1	45.46	68.8	46.29	65.8	58.00	56.3
Juli 9	34.99	25.5	45.50	70.6	46.32	68.4	58.07	56.2
19	35.01	26.0	45.51	72.3	46.30	70.8	58.10	56.2
29	34.98	26.5	45.47	73.7	46.23	73.0	58.08	56.2
Aug. 8	34.91	26.9	45.40	75.0	46.13	75.0	58.02	56.2
18	34.79	27.3	45.29	76.1	45.98	76.6	57.92	56.3
28	34.64	27.6	45.15	76.9	45.80	77.9	57.79	56.3
Sept. 7	34.46	27.9	44.98	77.5	45.60	78.8	57.62	56.4
17	34.26	28.0	44.80	77.9	45.39	79.3	57.44	56.4
27	34.05	27.9	44.61	78.0	45.16	79.5	57.25	56.4
Oct. 7	33.85	27.8	44.42	77.8	44.93	79.2	57.06	56.4
17	33.66	27.5	44.24	77.4	44.72	78.5	56.89	56.3
27	33.49	27.1	44.09	76.7	44.53	77.4	56.73	56.2
Nov. 6	33.36	26.6	43.96	75.7	44.37	75.9	56.61	56.1
16	33.28	26.1	43.87	74.5	44.24	74.1	56.53	56.0
26	33.25	25.5	43.82	73.0	44.16	71.9	56.49	55.9
Dec. 6	33.27	24.9	43.82	71.4	44.13	69.4	56.50	55.9
16	33.34	24.4	43.86	69.6	44.15	66.7	56.56	55.9
26	33.47	23.9	43.96	67.5	44.23	63.6	56.68	56.0
36	33.65	23.5	44.09	65.5	44.35	60.8	56.83	56.1
Mittl. Ort	30.74	33.1	42.16	58.8	43.16	55.3	54.13	65.6
	601)		254)		255)		602)	

1902	γ Serpentis. 3 ^m .o.		109 Herculis. 4 ^m .o.		δ Draconis. 5 ^m .I.		χ Draconis. 3 ^m .8.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.	AR.	Decl.
	18 ^h 16 ^m	2° 55'	18 ^h 19 ^m	21° 43'	18 ^h 22 ^m	58° 44'	18 ^h 22 ^m	72° 41'
Jan. 0	13.63 ¹⁵	21.1 ¹³	30.44 ¹⁴	35.2 ²⁵	26.40 ¹¹	43.3 ³⁵	44.66 ¹¹	31.7 ³⁶
10	13.78 ¹⁸	22.4 ¹²	30.58 ¹⁷	32.7 ²⁴	26.51 ¹⁹	39.8 ³⁴	44.77 ²⁵	28.1 ³⁴
20	13.96 ²²	23.6 ¹¹	30.75 ²¹	30.3 ²²	26.70 ²⁶	36.4 ³²	45.02 ³⁷	24.7 ³²
30	14.18 ²⁴	24.7 ¹⁰	30.96 ²³	28.1 ²⁰	26.96 ³²	33.2 ²⁸	45.39 ⁴⁹	21.5 ²⁸
Febr. 9	14.42 ²⁵	25.7 ⁸	31.19 ²⁵	26.1 ¹⁷	27.28 ³⁷	30.4 ²³	45.88 ⁶⁰	18.7 ²⁴
19	14.67 ²⁷	26.5 ⁶	31.44 ²⁸	24.4 ¹²	27.65 ⁴²	28.1 ¹⁸	46.48 ⁶⁸	16.3 ¹⁸
März 1	14.94 ²⁸	27.1 ⁴	31.72 ²⁸	23.2 ⁷	28.07 ⁴⁴	26.3 ¹¹	47.16 ⁷³	14.5 ¹²
11	15.22 ²⁸	27.5 ⁰	32.00 ³⁰	22.5 ³	28.51 ⁴⁶	25.2 ⁵	47.89 ⁷⁶	13.3 ⁶
21	15.50 ²⁹	27.5 ²	32.30 ²⁹	22.2 ³	28.97 ⁴⁷	24.7 ²	48.65 ⁷⁸	12.7 ¹
31	15.79 ²⁸	27.3 ⁵	32.59 ²⁹	22.5 ⁷	29.44 ⁴⁶	24.9 ⁸	49.43 ⁷⁵	12.8 ⁸
April 10	16.07 ²⁷	26.8 ⁷	32.88 ²⁸	23.2 ¹²	29.90 ⁴⁴	25.7 ¹⁴	50.18 ⁷²	13.6 ¹⁴
20	16.34 ²⁷	26.1 ¹⁰	33.16 ²⁷	24.4 ¹⁵	30.34 ⁴⁰	27.1 ²⁰	50.90 ⁶⁶	15.0 ¹⁹
30	16.61 ²⁵	25.1 ¹¹	33.43 ²⁵	25.9 ¹⁹	30.74 ³⁷	29.1 ²⁴	51.56 ⁵⁷	16.9 ²⁴
Mai 10	16.86 ²³	24.0 ¹²	33.68 ²³	27.8 ²²	31.11 ³¹	31.5 ²⁹	52.13 ⁴⁸	19.3 ²⁹
20	17.09 ²⁰	22.8 ¹³	33.91 ²⁰	30.0 ²³	31.42 ²⁶	34.4 ³¹	52.61 ³⁷	22.2 ³¹
30	17.29 ¹⁷	21.5 ¹³	34.11 ¹⁷	32.3 ²⁵	31.68 ¹⁹	37.5 ³⁴	52.98 ²⁵	25.3 ³³
Juni 9	17.46 ¹⁴	20.2 ¹³	34.28 ¹³	34.8 ²⁵	31.87 ¹²	40.9 ³⁴	53.23 ¹³	28.6 ³⁵
19	17.60 ¹¹	18.9 ¹³	34.41 ⁹	37.3 ²⁵	31.99 ⁵	44.3 ³⁵	53.36 ⁰	32.1 ³⁴
29	17.71 ⁷	17.6 ¹¹	34.50 ⁵	39.8 ²⁴	32.04 ³	47.8 ³⁴	53.36 ¹²	35.5 ³⁴
Juli 9	17.78 ²	16.5 ¹¹	34.55 ¹	42.2 ²²	32.01 ⁹	51.2 ³²	53.24 ²⁵	38.9 ³²
19	17.80 ²	15.4 ⁹	34.56 ⁴	44.4 ²¹	31.92 ¹⁷	54.4 ²⁹	52.99 ³⁶	42.1 ³⁰
29	17.78 ⁵	14.5 ⁸	34.52 ⁸	46.5 ¹⁸	31.75 ²³	57.3 ²⁷	52.63 ⁴⁷	45.1 ²⁷
Aug. 8	17.73 ⁹	13.7 ⁶	34.44 ¹²	48.3 ¹⁵	31.52 ²⁹	60.0 ²³	52.16 ⁵⁷	47.8 ²³
18	17.64 ¹³	13.1 ⁵	34.32 ¹⁵	49.8 ¹²	31.23 ³⁵	62.3 ¹⁹	51.59 ⁶⁵	50.1 ¹⁹
28	17.51 ¹⁶	12.6 ³	34.17 ¹⁸	51.0 ⁹	30.88 ³⁸	64.2 ¹⁴	50.94 ⁷¹	52.0 ¹⁵
Sept. 7	17.35 ¹⁷	12.3 ²	33.99 ²⁰	51.9 ⁶	30.50 ⁴¹	65.6 ⁹	50.23 ⁷⁶	53.5 ⁹
17	17.18 ¹⁸	12.1 ¹	33.79 ²⁰	52.5 ²	30.09 ⁴³	66.5 ⁴	49.47 ⁷⁹	54.4 ⁵
27	17.00 ¹⁹	12.0 ¹	33.59 ²¹	52.7 ¹	29.66 ⁴⁴	66.9 ¹	48.68 ⁸⁰	54.9 ¹
Oct. 7	16.81 ¹⁷	12.1 ³	33.38 ²⁰	52.6 ⁵	29.22 ⁴²	66.8 ⁶	47.88 ⁷⁸	54.8 ⁶
17	16.64 ¹⁵	12.4 ⁴	33.18 ¹⁸	52.1 ⁹	28.80 ⁴⁰	66.2 ¹²	47.10 ⁷⁵	54.2 ¹¹
27	16.49 ¹³	12.8 ⁵	33.00 ¹⁵	51.2 ¹²	28.40 ³⁶	65.0 ¹⁶	46.35 ⁶⁹	53.1 ¹⁷
Nov. 6	16.36 ⁹	13.3 ⁷	32.85 ¹²	50.0 ¹⁵	28.04 ³¹	63.4 ²²	45.66 ⁶¹	51.4 ²¹
16	16.27 ⁵	14.0 ⁸	32.73 ⁸	48.5 ¹⁹	27.73 ²⁵	61.2 ²⁶	45.05 ⁵¹	49.3 ²⁷
26	16.22 ¹	14.8 ¹⁰	32.65 ⁴	46.6 ²¹	27.48 ¹⁸	58.6 ²⁹	44.54 ³⁹	46.6 ³⁰
Dec. 6	16.21 ⁴	15.8 ¹¹	32.61 ²	44.5 ²³	27.30 ¹⁰	55.7 ³³	44.15 ²⁷	43.6 ³²
16	16.25 ¹⁰	16.9 ¹³	32.63 ⁶	42.2 ²⁶	27.20 ³	52.4 ³⁴	43.88 ¹³	40.4 ³⁵
26	16.35 ¹³	18.2 ¹³	32.69 ¹²	39.6 ²⁷	27.17 ⁷	49.0 ³⁹	43.75 ¹	36.9 ⁴⁰
36	16.48	19.5	32.81	36.9	27.24	45.1	43.76	32.9
Mittl. Ort	14.24	27.7	31.29	29.2	28.73	37.2	49.36	25.3
	(257)		(258)		(488)		(259)	

1902	α Lyrae. 1 ^m .*)		110 Herculis. 4 ^m .0.		β Lyrae. 3.4...4 ^m .5.		σ Sagittarii. 2 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	18 ^h 33 ^m	38° 41'	18 ^h 41 ^m	20° 27'	18 ^h 46 ^m	33° 14'	18 ^h 49 ^m	26° 24'
Jan. 0	36.02	39.1	25.79	14.6	26.65	63.7	10.61	61.2
10	36.13	36.0	25.90	12.2	26.75	60.5	10.77	60.9
20	36.28	33.0	26.05	9.9	26.89	57.6	10.95	60.5
30	36.49	30.2	26.23	7.7	27.07	54.9	11.16	60.2
Febr. 9	36.73	27.7	26.45	5.7	27.29	52.5	11.41	59.9
19	37.00	25.6	26.69	4.1	27.54	50.5	11.68	59.6
März 1	37.30	24.0	26.95	2.9	27.81	48.9	11.96	59.2
11	37.62	23.0	27.22	2.1	28.11	47.9	12.26	58.8
21	37.95	22.5	27.51	1.7	28.42	47.4	12.58	58.4
31	38.28	22.7	27.80	1.8	28.73	47.4	12.90	57.9
April 10	38.61	23.4	28.09	2.5	29.05	48.0	13.22	57.4
20	38.93	24.7	28.38	3.6	29.36	49.2	13.54	56.9
30	39.24	26.5	28.66	5.0	29.66	50.8	13.85	56.4
Mai 10	39.52	28.8	28.92	6.8	29.94	52.9	14.15	56.0
20	39.78	31.3	29.16	8.9	30.20	55.3	14.43	55.6
30	40.00	34.2	29.38	11.2	30.43	57.9	14.69	55.3
Juni 9	40.18	37.2	29.57	13.7	30.62	60.8	14.93	55.0
19	40.32	40.4	29.72	16.2	30.78	63.7	15.12	54.9
29	40.41	43.5	29.83	18.6	30.89	66.7	15.28	54.9
Juli 9	40.45	46.5	29.90	21.0	30.95	69.6	15.40	55.0
19	40.44	49.4	29.93	23.3	30.96	72.4	15.47	55.2
29	40.38	52.1	29.91	25.4	30.93	75.0	15.49	55.5
Aug. 8	40.27	54.4	29.85	27.2	30.85	77.3	15.46	55.9
18	40.11	56.5	29.75	28.8	30.73	79.4	15.38	56.2
28	39.92	58.3	29.62	30.2	30.57	81.1	15.27	56.6
Sept. 7	39.70	59.6	29.45	31.2	30.37	82.5	15.12	57.0
17	39.45	60.5	29.26	31.9	30.15	83.4	14.94	57.3
27	39.19	60.9	29.06	32.2	29.91	84.0	14.75	57.5
Oct. 7	38.92	60.9	28.85	32.2	29.67	84.1	14.55	57.6
17	38.67	60.4	28.65	31.9	29.44	83.7	14.36	57.7
27	38.43	59.5	28.47	31.2	29.21	83.0	14.18	57.6
Nov. 6	38.22	58.1	28.31	30.1	29.01	81.8	14.03	57.5
16	38.04	56.2	28.18	28.8	28.85	80.1	13.91	57.3
26	37.91	54.0	28.09	27.1	28.72	78.1	13.84	57.0
Dec. 6	37.83	51.4	28.04	25.1	28.64	75.8	13.81	56.7
16	37.80	48.5	28.03	22.9	28.61	73.2	13.83	56.3
26	37.82	45.5	28.07	20.6	28.62	70.4	13.89	56.0
36	37.90	42.1	28.16	18.0	28.69	67.2	14.02	55.7
Mittl. Ort	37.22	32.4	26.60	7.5	27.69	55.8	11.31	67.8
	260)		263)		264)		603)	

*) Die jährliche Parallaxe ist bereits angebracht.

1902	♁ Draconis. 4 ^m .6.		♃ Serpentis pr. 4 ^m .2		♄ Lyrae. 4.3...4 ^m .6.		♄ Lyrae. 3 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	18 ^h 49 ^m	59° 15'	18 ^h 51 ^m	4° 4'	18 ^h 52 ^m	43° 48'	18 ^h 55 ^m	32° 33'
Jan. 0	43.04 ⁶	75.4 ³⁸	20.15 ¹³	41.0 ¹⁷	19.82 ⁹	68.6 ³⁵	15.60 ⁹	26.2 ³¹
10	43.10 ¹⁴	71.6 ³⁴	20.28 ¹⁵	39.3 ¹⁵	19.91 ¹³	65.1 ³²	15.69 ¹³	23.1 ²⁸
20	43.24 ²¹	68.2 ³³	20.43 ¹⁸	37.8 ¹⁴	20.04 ¹⁸	61.9 ³⁰	15.82 ¹⁸	20.3 ²⁷
30	43.45 ²⁸	64.9 ³⁰	20.61 ²⁰	36.4 ¹²	20.22 ²³	58.9 ²⁷	16.00 ²¹	17.6 ²⁴
Febr. 9	43.73 ³⁵	61.9 ²⁵	20.81 ²⁴	35.2 ¹⁰	20.45 ²⁷	56.2 ²³	16.21 ²⁴	15.2 ²⁰
19	44.08 ³⁹	59.4 ²¹	21.05 ²⁵	34.2 ⁸	20.72 ³⁰	53.9 ¹⁸	16.45 ²⁷	13.2 ¹⁶
März 1	44.47 ⁴³	57.3 ¹⁴	21.30 ²⁶	33.4 ⁴	21.02 ³²	52.1 ¹³	16.72 ²⁸	11.6 ¹¹
11	44.90 ⁴⁶	55.9 ⁸	21.56 ²⁷	33.0 ¹	21.34 ³⁴	50.8 ⁷	17.00 ³⁰	10.5 ⁶
21	45.36 ⁴⁷	55.1 ²	21.83 ²⁸	32.9 [—]	21.68 ³⁵	50.1 ¹	17.30 ³¹	9.9 ⁰
31	45.83 ⁴⁷	54.9 ⁵	22.11 ²⁹	33.2 ⁶	22.03 ³⁶	50.0 ⁶	17.61 ³²	9.9 ⁵
April 10	46.30 ⁴⁶	55.4 ¹²	22.40 ²⁸	33.8 ⁹	22.39 ³⁵	50.6 ¹¹	17.93 ³¹	10.4 ¹¹
20	46.76 ⁴⁴	56.6 ¹⁷	22.68 ²⁸	34.7 ¹²	22.74 ³³	51.7 ¹⁷	18.24 ³¹	11.5 ¹⁶
30	47.20 ⁴⁰	58.3 ²²	22.96 ²⁶	35.9 ¹⁴	23.07 ³²	53.4 ²¹	18.55 ²⁹	13.1 ²⁰
Mai 10	47.60 ³⁶	60.5 ²⁷	23.22 ²⁵	37.3 ¹⁶	23.39 ²⁸	55.5 ²⁵	18.84 ²⁶	15.1 ²⁴
20	47.96 ³⁰	63.2 ³⁰	23.47 ²³	38.9 ¹⁷	23.67 ²⁵	58.0 ²⁹	19.10 ²³	17.5 ²⁶
30	48.26 ²⁴	66.2 ³³	23.70 ²⁰	40.6 ¹⁸	23.92 ²¹	60.9 ³¹	19.33 ²¹	20.1 ²⁸
Juni 9	48.50 ¹⁷	69.5 ³⁴	23.90 ¹⁷	42.4 ¹⁸	24.13 ¹⁶	64.0 ³²	19.54 ¹⁶	22.9 ³⁰
19	48.67 ¹⁰	72.9 ³⁵	24.07 ¹³	44.2 ¹⁷	24.29 ¹¹	67.2 ³³	19.70 ¹²	25.9 ²⁹
29	48.77 ²	76.4 ³⁴	24.20 ⁹	45.9 ¹⁶	24.40 ⁶	70.5 ³²	19.82 ⁷	28.8 ²⁹
Juli 9	48.79 ⁵	79.8 ³⁴	24.29 ⁵	47.5 ¹⁵	24.46 ⁰	73.7 ³¹	19.89 ³	31.7 ²⁸
19	48.74 ¹³	83.2 ³¹	24.34 ¹	49.0 ¹⁴	24.46 ⁵	76.8 ³⁰	19.92 ²	34.5 ²⁶
29	48.61 ²⁰	86.3 ²⁹	24.35 ³	50.4 ¹²	24.41 ¹⁰	79.8 ²⁷	19.90 ⁷	37.1 ²⁴
Aug. 8	48.41 ²⁶	89.2 ²⁶	24.32 ⁸	51.6 ¹¹	24.31 ¹⁶	82.5 ²³	19.83 ¹²	39.5 ²¹
18	48.15 ³²	91.8 ²²	24.24 ¹¹	52.7 ⁸	24.15 ²⁰	84.8 ²⁰	19.71 ¹⁵	41.6 ¹⁸
28	47.83 ³⁶	94.0 ¹⁸	24.13 ¹⁴	53.5 ⁶	23.95 ²³	86.8 ¹⁶	19.56 ¹⁹	43.4 ¹⁴
Sept. 7	47.47 ⁴⁰	95.8 ¹³	23.99 ¹⁶	54.1 ⁴	23.72 ²⁶	88.4 ¹²	19.37 ²¹	44.8 ¹⁰
17	47.07 ⁴³	97.1 ⁸	23.83 ¹⁸	54.5 ²	23.46 ²⁹	89.6 ⁷	19.16 ²³	45.8 ⁶
27	46.64 ⁴⁴	97.9 ³	23.65 ¹⁸	54.7 ⁰	23.17 ²⁹	90.3 ³	18.93 ²⁴	46.4 ²
Oct. 7	46.20 ⁴³	98.2 ²	23.47 ¹⁸	54.7 ³	22.88 ²⁸	90.6 ³	18.69 ²³	46.6 ²
17	45.77 ⁴²	98.0 ⁸	23.29 ¹⁷	54.4 ⁴	22.60 ²⁷	90.3 ⁷	18.46 ²³	46.4 ⁷
27	45.35 ³⁹	97.2 ¹³	23.12 ¹⁴	54.0 ⁶	22.33 ²⁵	89.6 ¹³	18.23 ²⁰	45.7 ¹¹
Nov. 6	44.96 ³⁴	95.9 ¹⁸	22.98 ¹¹	53.4 ⁹	22.08 ²²	88.3 ¹⁷	18.03 ¹⁶	44.6 ¹⁶
16	44.62 ²⁹	94.1 ²³	22.87 ⁸	52.5 ¹⁰	21.86 ¹⁷	86.6 ²¹	17.87 ¹⁴	43.0 ¹⁹
26	44.33 ²²	91.8 ²⁷	22.79 ⁴	51.5 ¹²	21.69 ¹³	84.5 ²⁶	17.73 ⁹	41.1 ²²
Dec. 6	44.11 ¹⁵	89.1 ³¹	22.75 ⁰	50.3 ¹⁴	21.56 ⁷	81.9 ²⁸	17.64 ⁴	38.9 ²⁵
16	43.96 ⁸	86.0 ³³	22.75 ⁵	48.9 ¹⁵	21.49 ¹	79.1 ³⁰	17.60 ¹	36.4 ²⁷
26	43.88 [—]	82.7 ³⁸	22.80 ¹⁰	47.4 ¹⁷	21.48 [—]	76.1 ³⁵	17.61 ⁷	33.7 ³²
36	43.89 ³³	78.9 ³⁸	22.90 ³⁸	45.7 ¹⁷	21.53 ³¹	72.6 ³⁵	17.68 ³⁴	30.5 ³²
Mittl. Ort	45.31	66.4	20.81	33.7	21.17	60.0	16.61	17.8
	265)		266)		492)		268)	

1902	ζ Aquilae. 3 ^m .O.		λ Aquilae. 3 ^m .I.		π Sagittarii. 3 ^m .I.		δ Draconis. 3 ^m .O.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. -	AR.	Decl. +
	19 ^h 0 ^m	13° 42'	19 ^h 1 ^m	5° 1'	19 ^h 3 ^m	21° 10'	19 ^h 12 ^m	67° 29'
Jan. 0	53.57 ¹¹	70.9 ²³	2.21 ¹²	40.2 ¹⁰	55.48 ¹³	41.0 ⁰	28.87 ²	32.0 ³⁸
10	53.68 ¹³	68.6 ¹⁹	2.33 ¹⁵	41.2 ¹⁰	55.61 ¹⁶	41.0 ¹	28.85 ⁹	28.2 ³⁵
20	53.81 ¹⁷	66.7 ¹⁹	2.48 ¹⁷	42.2 ⁸	55.77 ²⁰	40.9 ¹	28.94 ¹⁹	24.7 ³⁴
30	53.98 ²⁰	64.8 ¹⁷	2.65 ²¹	43.0 ⁸	55.97 ²²	40.8 ¹	29.13 ³⁰	21.3 ³¹
Febr. 9	54.18 ²²	63.1 ¹⁴	2.86 ²³	43.8 ⁶	56.19 ²⁴	40.7 ²	29.43 ³⁸	18.2 ²⁷
19	54.40 ²⁴	61.7 ¹⁰	3.09 ²⁵	44.4 ³	56.43 ²⁷	40.5 ²	29.81 ⁴⁶	15.5 ²³
März 1	54.64 ²⁶	60.7 ⁷	3.34 ²⁶	44.7 ²	56.70 ²⁸	40.3 ⁴	30.27 ⁵³	13.2 ¹⁸
11	54.90 ²⁸	60.0 ³	3.60 ²⁷	44.9 ¹	56.98 ³⁰	39.9 ⁵	30.80 ⁵⁷	11.4 ¹¹
21	55.18 ²⁸	59.7 ²	3.87 ²⁹	44.8 ⁴	57.28 ³⁰	39.4 ⁵	31.37 ⁶⁰	10.3 ⁵
31	55.46 ²⁹	59.9 ⁵	4.16 ²⁸	44.4 ⁶	57.58 ³¹	38.9 ⁶	31.97 ⁶²	9.8 ²
April 10	55.75 ²⁸	60.4 ¹⁰	4.44 ²⁹	43.8 ⁸	57.89 ³¹	38.3 ⁷	32.59 ⁶⁰	10.0 ⁸
20	56.03 ²⁸	61.4 ¹³	4.73 ²⁸	43.0 ¹⁰	58.20 ³⁰	37.6 ⁷	33.19 ⁵⁸	10.8 ¹⁴
30	56.31 ²⁷	62.7 ¹⁷	5.01 ²⁸	42.0 ¹²	58.50 ³⁰	36.9 ⁷	33.77 ⁵⁴	12.2 ²⁰
Mai 10	56.58 ²⁶	64.4 ¹⁹	5.29 ²⁶	40.8 ¹³	58.80 ²⁸	36.2 ⁷	34.31 ⁴⁸	14.2 ²⁵
20	56.84 ²³	66.3 ²⁰	5.55 ²⁴	39.5 ¹⁴	59.08 ²⁶	35.5 ⁷	34.79 ⁴¹	16.7 ²⁸
30	57.07 ²⁰	68.3 ²²	5.79 ²¹	38.1 ¹³	59.34 ²⁴	34.8 ⁶	35.20 ³³	19.5 ³²
Juni 9	57.27 ¹⁷	70.5 ²³	6.00 ¹⁸	36.8 ¹⁴	59.58 ²⁰	34.2 ⁴	35.53 ²⁵	22.7 ³⁴
19	57.44 ¹⁴	72.8 ²²	6.18 ¹⁵	35.4 ¹²	59.78 ¹⁶	33.8 ⁴	35.78 ¹⁴	26.1 ³⁵
29	57.58 ¹⁰	75.0 ²²	6.33 ¹¹	34.2 ¹²	59.94 ¹³	33.4 ³	35.92 ⁵	29.6 ³⁶
Juli 9	57.68 ⁵	77.2 ²⁰	6.44 ⁷	33.0 ¹¹	60.07 ⁸	33.1 ¹	35.97 ⁵	33.2 ³⁵
19	57.73 ¹	79.2 ¹⁹	6.51 ²	31.9 ⁹	60.15 ⁴	33.0 ⁰	35.92 ¹⁵	36.7 ³³
29	57.74 ⁴	81.1 ¹⁷	6.53 ²	31.0 ⁸	60.19 ²	33.0 ¹	35.77 ²⁵	40.0 ³²
Aug. 8	57.70 ⁷	82.8 ¹⁴	6.51 ⁶	30.2 ⁶	60.17 ⁶	33.1 ¹	35.52 ³³	43.2 ²⁹
18	57.63 ¹²	84.2 ¹²	6.45 ¹⁰	29.6 ⁵	60.11 ¹⁰	33.2 ²	35.19 ⁴¹	46.1 ²⁵
28	57.51 ¹⁴	85.4 ⁹	6.35 ¹³	29.1 ³	60.01 ¹³	33.4 ²	34.78 ⁴⁸	48.6 ²¹
Sept. 7	57.37 ¹⁷	86.3 ⁷	6.22 ¹⁶	28.8 ²	59.88 ¹⁶	33.6 ³	34.30 ⁵³	50.7 ¹⁷
17	57.20 ¹⁹	87.0 ⁴	6.06 ¹⁷	28.6 ⁰	59.72 ¹⁸	33.9 ²	33.77 ⁵⁷	52.4 ¹²
27	57.01 ¹⁹	87.4 ¹	5.89 ¹⁸	28.6 ⁰	59.54 ¹⁹	34.1 ²	33.20 ⁵⁹	53.6 ⁷
Oct. 7	56.82 ¹⁹	87.5 ³	5.71 ¹⁸	28.6 ²	59.35 ¹⁹	34.3 ¹	32.61 ⁶⁰	54.3 ¹
17	56.63 ¹⁸	87.2 ⁵	5.53 ¹⁶	28.8 ³	59.16 ¹⁸	34.4 ¹	32.01 ⁵⁹	54.4 ⁴
27	56.45 ¹⁵	86.7 ⁸	5.37 ¹⁵	29.1 ⁵	58.98 ¹⁵	34.5 ¹	31.42 ⁵⁶	54.0 ¹⁰
Nov. 6	56.30 ¹³	85.9 ¹¹	5.22 ¹²	29.6 ⁵	58.83 ¹²	34.6 ⁰	30.86 ⁵²	53.0 ¹⁴
16	56.17 ¹⁰	84.8 ¹³	5.10 ⁸	30.1 ⁷	58.71 ⁸	34.6 ⁰	30.34 ⁴⁵	51.6 ²⁰
26	56.07 ⁶	83.5 ¹⁶	5.02 ⁴	30.8 ⁸	58.63 ⁴	34.6 ⁰	29.89 ³⁸	49.6 ²⁵
Dec. 6	56.01 ¹	81.9 ¹⁸	4.98 ¹	31.6 ⁹	58.59 ⁰	34.6 ⁰	29.51 ²⁹	47.1 ²⁹
16	56.00 ³	80.1 ²⁰	4.99 ⁴	32.5 ⁹	58.59 ⁵	34.6 ¹	29.22 ¹⁹	44.2 ³²
26	56.03 ⁸	78.1 ²²	5.03 ⁹	33.4 ¹⁰	58.64 ¹⁰	34.5 ⁰	29.03 ⁹	41.0 ³⁴
36	56.11	75.9	5.12	34.4	58.74	34.5	28.94	37.6
Mittl. Ort	54.29	63.0	2.84	47.2	56.15	47.4	32.00	20.7
	270)		269)		604)		271)	

1902	♃ Lyrae. 4 ^m .3.		♈ Aquilae. 5 ^m .6.		ζ Cygni. 4 ^m .0.		τ Draconis. 4 ^m .8.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	19 ^h 12 ^m	37° 57'	19 ^h 13 ^m	11° 25'	19 ^h 14 ^m	53° 11'	19 ^h 17 ^m	73° 10'
Jan. 0	56.79	41.6	12.29	14.5	48.61	25.4	22.14	37.2
10	56.85	38.3	12.38	12.5	48.64	21.7	22.05	33.5
20	56.96	35.3	12.50	10.6	48.74	18.4	22.12	30.0
30	57.11	32.5	12.66	8.9	48.90	15.2	22.33	26.7
Febr. 9	57.31	29.9	12.85	7.4	49.12	12.2	22.68	23.5
19	57.54	27.6	13.06	6.1	49.39	9.6	23.15	20.7
März 1	57.81	25.7	13.30	5.1	49.71	7.4	23.72	18.3
11	58.10	24.4	13.55	4.5	50.07	5.8	24.38	16.5
21	58.41	23.6	13.82	4.2	50.45	4.8	25.11	15.3
31	58.73	23.4	14.10	4.4	50.86	4.4	25.89	14.7
April 10	59.06	23.8	14.38	4.9	51.27	4.6	26.68	14.7
20	59.39	24.8	14.67	5.9	51.68	5.5	27.46	15.4
30	59.72	26.3	14.95	7.2	52.08	7.0	28.20	16.7
Mai 10	60.03	28.2	15.23	8.7	52.46	9.0	28.89	18.6
20	60.31	30.6	15.49	10.5	52.81	11.5	29.51	21.0
30	60.57	33.3	15.73	12.5	53.11	14.3	30.03	23.8
Juni 9	60.80	36.2	15.94	14.6	53.37	17.4	30.44	26.9
19	60.98	39.3	16.12	16.8	53.57	20.8	30.74	30.2
29	61.12	42.4	16.27	19.0	53.71	24.2	30.91	33.7
Juli 9	61.21	45.5	16.38	21.0	53.78	27.7	30.95	37.3
19	61.25	48.6	16.45	23.0	53.79	31.1	30.86	40.8
29	61.23	51.4	16.47	24.8	53.74	34.3	30.65	44.2
Aug. 8	61.17	54.1	16.45	26.4	53.62	37.3	30.31	47.4
18	61.06	56.5	16.39	27.8	53.45	40.0	29.86	50.3
28	60.90	58.5	16.29	29.0	53.22	42.4	29.31	52.9
Sept. 7	60.71	60.2	16.15	29.9	52.94	44.4	28.66	55.1
17	60.48	61.5	15.99	30.6	52.62	46.0	27.95	56.9
27	60.24	62.4	15.81	31.0	52.28	47.1	27.18	58.2
Oct. 7	59.98	62.8	15.62	31.1	51.93	47.7	26.38	59.0
17	59.72	62.7	15.44	30.9	51.57	47.8	25.56	59.3
27	59.48	62.2	15.26	30.5	51.22	47.4	24.76	59.0
Nov. 6	59.25	61.2	15.10	29.8	50.89	46.4	23.99	58.2
16	59.05	59.8	14.97	28.8	50.60	44.9	23.28	56.8
26	58.89	57.9	14.87	27.6	50.34	42.9	22.64	54.9
Dec. 6	58.77	55.7	14.81	26.2	50.14	40.4	22.09	52.5
16	58.70	53.1	14.78	24.5	50.00	37.6	21.65	49.7
26	58.67	50.3	14.80	22.7	49.92	34.5	21.35	46.6
36	58.70	47.3	14.86	20.8	49.90	31.2	21.18	43.2
Mittl. Ort	57.88	31.8	12.97	6.5	50.30	14.6	26.46	25.2
	496)		495)		272)		273)	

1902	♁ Aquilae. 3 ^m .3.		β Cygni. 3 ^m .0.		γ Cygni. 4 ^m .1.		δ Sagittarii. 4 ^m .6.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	19 ^h 20 ^m	2 ^m 55'	19 ^h 26 ^m	27 ^m 45'	19 ^h 27 ^m	51 ^m 31'	19 ^h 30 ^m	25 ^m 5'
Jan. 0	32.78	16.3	45.27	22.1	12.60	26.3	43.88	55.0
10	32.87	14.8	45.33	19.5	12.62	23.0	43.97	54.7
20	32.99	13.5	45.43	16.7	12.70	19.4	44.12	54.3
30	33.15	12.2	45.57	14.2	12.84	16.2	44.29	53.8
Febr. 9	33.33	11.1	45.75	11.9	13.04	13.2	44.49	53.3
19	33.54	10.2	45.95	9.9	13.29	10.5	44.72	52.8
März 1	33.77	9.5	46.19	8.3	13.59	8.4	44.98	52.2
11	34.02	9.2	46.45	7.2	13.93	6.7	45.25	51.6
21	34.29	9.1	46.73	6.5	14.29	5.6	45.54	50.9
31	34.57	9.4	47.02	6.4	14.68	5.1	45.85	50.1
April 10	34.85	10.0	47.33	6.8	15.08	5.1	46.16	49.3
20	35.14	10.9	47.64	7.7	15.48	5.9	46.48	48.4
30	35.42	12.1	47.94	9.0	15.87	7.2	46.80	47.6
Mai 10	35.70	13.5	48.23	10.8	16.25	9.1	47.11	46.8
20	35.96	15.1	48.51	13.0	16.60	11.5	47.42	46.0
30	36.21	16.8	48.77	15.4	16.91	14.3	47.71	45.4
Juni 9	36.43	18.6	49.00	18.0	17.18	17.4	47.97	44.8
19	36.63	20.4	49.19	20.8	17.39	20.7	48.20	44.4
29	36.79	22.2	49.34	23.7	17.55	24.1	48.40	44.2
Juli 9	36.91	23.8	49.45	26.5	17.65	27.5	48.55	44.1
19	36.99	25.4	49.52	29.2	17.69	30.9	48.66	44.1
29	37.02	26.8	49.54	31.8	17.66	34.2	48.72	44.3
Aug. 8	37.02	28.0	49.51	34.2	17.56	37.2	48.73	44.6
18	36.97	29.1	49.43	36.3	17.41	40.0	48.69	44.9
28	36.88	29.9	49.32	38.1	17.21	42.5	48.61	45.3
Sept. 7	36.76	30.5	49.16	39.6	16.95	44.6	48.49	45.8
17	36.61	31.0	48.98	40.8	16.66	46.3	48.34	46.3
27	36.44	31.2	48.78	41.6	16.35	47.6	48.16	46.7
Oct. 7	36.26	31.3	48.56	42.0	16.01	48.3	47.97	47.0
17	36.08	31.1	48.35	42.0	15.67	48.5	47.78	47.3
27	35.91	30.8	48.14	41.6	15.34	48.2	47.59	47.5
Nov. 6	35.76	30.2	47.94	40.8	15.02	47.4	47.43	47.6
16	35.63	29.5	47.77	39.6	14.73	46.1	47.29	47.6
26	35.53	28.5	47.63	38.1	14.48	44.2	47.18	47.5
Dec. 6	35.47	27.4	47.53	36.2	14.28	42.0	47.12	47.3
16	35.46	26.2	47.47	34.0	14.13	39.3	47.10	47.0
26	35.48	24.9	47.46	31.6	14.04	36.3	47.12	46.8
36	35.54	23.5	47.49	29.0	14.01	33.0	47.19	46.5
Mittl. Ort	33.41	8.7	46.11	12.3	14.15	14.6	44.58	60.5

274)

275)

276)

605)

1902	♁ Cygni. 4 ^m .6.		γ Aquilae. 3 ^m .0.		♁ Cygni. 2 ^m .8.		♁ Sagittae. 4 ^m .0.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	19 ^h 33 ^m	49° 59'	19 ^h 41 ^m	10° 22'	19 ^h 41 ^m	44° 53'	19 ^h 43 ^m	18° 17'
Jan. 0	47.37 ⁵	49.9 ³¹	35.38 ⁶	35.8 ¹⁷	53.56 ¹	40.6 ³¹	0.35 ⁵	42.4 ²¹
10	47.37 ⁸	46.8 ³⁶	35.44 ¹⁰	34.1 ¹⁹	53.57 ⁷	37.5 ³⁴	0.40 ⁹	40.3 ²³
20	47.45 ¹³	43.2 ³²	35.54 ¹³	32.2 ¹⁷	53.64 ¹²	34.1 ³¹	0.49 ¹³	38.0 ²⁰
30	47.58 ¹⁹	40.0 ³⁰	35.67 ¹⁶	30.5 ¹⁵	53.76 ¹⁷	31.0 ²⁹	0.62 ¹⁶	36.0 ¹⁹
Febr. 9	47.77 ²⁴	37.0 ²⁷	35.83 ¹⁹	29.0 ¹²	53.93 ²¹	28.1 ²⁵	0.78 ¹⁹	34.1 ¹⁶
19	48.01 ²⁸	34.3 ²²	36.02 ²²	27.8 ⁹	54.14 ²⁶	25.6 ²²	0.97 ²¹	32.5 ¹³
März 1	48.29 ³²	32.1 ¹⁷	36.24 ²³	26.9 ⁶	54.40 ²⁹	23.4 ¹⁷	1.18 ²⁴	31.2 ⁹
11	48.61 ³⁵	30.4 ¹¹	36.47 ²⁶	26.3 ³	54.69 ³²	21.7 ¹¹	1.42 ²⁶	30.3 ⁵
21	48.96 ³⁸	29.3 ⁶	36.73 ²⁷	26.0 ¹	55.01 ³⁴	20.6 ⁶	1.68 ²⁷	29.8 ⁰
31	49.34 ³⁹	28.7 ¹	37.00 ²⁸	26.1 ⁵	55.35 ³⁶	20.0 ¹	1.95 ²⁹	29.8 ⁴
April 10	49.73 ³⁹	28.8 ⁷	37.28 ²⁹	26.6 ⁹	55.71 ³⁶	20.1 ⁷	2.24 ³⁰	30.2 ⁹
20	50.12 ³⁹	29.5 ¹³	37.57 ²⁹	27.5 ¹³	56.07 ³⁶	20.8 ¹²	2.54 ²⁹	31.1 ¹²
30	50.51 ³⁷	30.8 ¹⁹	37.86 ²⁸	28.8 ¹⁵	56.43 ³⁵	22.0 ¹⁸	2.83 ²⁹	32.3 ¹⁶
Mai 10	50.88 ³⁴	32.7 ²³	38.14 ²⁸	30.3 ¹⁸	56.78 ³³	23.8 ²²	3.12 ²⁸	33.9 ²⁰
20	51.22 ³¹	35.0 ²⁷	38.42 ²⁶	32.1 ²⁰	57.11 ³⁰	26.0 ²⁶	3.40 ²⁶	35.9 ²²
30	51.53 ²⁷	37.7 ³⁰	38.68 ²³	34.1 ²¹	57.41 ²⁷	28.6 ³⁰	3.66 ²⁴	38.1 ²³
Juni 9	51.80 ²²	40.7 ³³	38.91 ²¹	36.2 ²¹	57.68 ²²	31.6 ³¹	3.90 ²¹	40.4 ²⁵
19	52.02 ¹⁷	44.0 ³⁴	39.12 ¹⁷	38.3 ²²	57.90 ¹⁸	34.7 ³³	4.11 ¹⁷	42.9 ²⁵
29	52.19 ¹¹	47.4 ³⁴	39.29 ¹⁴	40.5 ²¹	58.08 ¹²	38.0 ³⁴	4.28 ¹³	45.4 ²⁴
Juli 9	52.30 ⁵	50.8 ³⁴	39.43 ⁹	42.6 ²⁰	58.20 ⁶	41.4 ³³	4.41 ⁸	47.8 ²⁴
19	52.35 ²	54.2 ³³	39.52 ⁵	44.6 ¹⁸	58.26 ¹	44.7 ³²	4.49 ⁵	50.2 ²²
29	52.33 ⁸	57.5 ³¹	39.57 ⁰	46.4 ¹⁷	58.27 ⁵	47.9 ³⁰	4.54 ⁰	52.4 ²¹
Aug. 8	52.25 ¹³	60.6 ²⁸	39.57 ³	48.1 ¹⁴	58.22 ¹⁰	50.9 ²⁸	4.54 ⁵	54.5 ¹⁸
18	52.12 ¹⁹	63.4 ²⁵	39.54 ⁸	49.5 ¹²	58.12 ¹⁵	53.7 ²⁴	4.49 ⁹	56.3 ¹⁶
28	51.93 ²³	65.9 ²¹	39.46 ¹²	50.7 ¹⁰	57.97 ²⁰	56.1 ²¹	4.40 ¹²	57.9 ¹³
Sept. 7	51.70 ²⁸	68.0 ¹⁸	39.34 ¹⁴	51.7 ⁸	57.77 ²³	58.2 ¹⁷	4.28 ¹⁵	59.2 ¹⁰
17	51.42 ³⁰	69.8 ¹³	39.20 ¹⁷	52.5 ⁴	57.54 ²⁷	59.9 ¹³	4.13 ¹⁸	60.2 ⁷
27	51.12 ³²	71.1 ⁸	39.03 ¹⁸	52.9 ²	57.27 ²⁸	61.2 ⁹	3.95 ¹⁹	60.9 ⁴
Oct. 7	50.80 ³²	71.9 ³	38.85 ¹⁸	53.1 ⁰	56.99 ²⁹	62.1 ³	3.76 ¹⁹	61.3 ⁰
17	50.48 ³²	72.2 ²	38.67 ¹⁸	53.1 ³	56.70 ²⁸	62.4 ²	3.57 ¹⁹	61.3 ³
27	50.16 ³¹	72.0 ⁸	38.49 ¹⁶	52.8 ⁶	56.42 ²⁷	62.2 ⁷	3.38 ¹⁷	61.0 ⁶
Nov. 6	49.85 ²³	71.2 ¹²	38.33 ¹⁵	52.2 ⁹	56.15 ²⁵	61.5 ¹¹	3.21 ¹⁶	60.4 ¹⁰
16	49.57 ²⁴	70.0 ¹⁸	38.18 ¹¹	51.3 ¹⁰	55.90 ²¹	60.4 ¹⁷	3.05 ¹²	59.4 ¹²
26	49.33 ²⁰	68.2 ²²	38.07 ⁸	50.3 ¹³	55.69 ¹⁷	58.7 ²¹	2.93 ⁹	58.2 ¹⁶
Dec. 6	49.13 ¹⁵	66.0 ²⁶	37.99 ⁴	49.0 ¹⁵	55.52 ¹³	56.6 ²⁴	2.84 ⁶	56.6 ¹⁸
16	48.98 ⁹	63.4 ²⁹	37.95 ¹	47.5 ¹⁶	55.39 ⁸	54.2 ²⁸	2.78 ²	54.8 ¹⁹
26	48.89 ³	60.5 ³²	37.94 ⁴	45.9 ¹⁷	55.31 ²	51.4 ³⁰	2.76 ³	52.9 ²¹
36	48.86	57.3	37.98	44.2	55.29	48.4	2.79	50.8
Mittl. Ort	48.80	37.9	36.00	27.1	54.75	28.5	1.02	32.9
	498)		277)		278)		279)	

1902	α Aquilae. 1 ^m .3.		ϵ Draconis. 3 ^m .8.		β Aquilae. 4 ^m .0.		ψ Cygni. 5 ^m .2.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	19 ^h 45 ^m	8° 36'	19 ^h 48 ^m	70° 0'	19 ^h 50 ^m	6° 9'	19 ^h 53 ^m	52° 10'
Jan. 0	59.49 ⁵	41.6 ¹⁶	27.16 ¹⁴	80.2 ³³	29.34 ⁵	50.6 ¹⁵	4.33 ³	55.8 ³¹
10	59.54 ¹⁰	40.0 ¹⁸	27.02 ²	76.9 ³⁷	29.39 ¹⁰	49.1 ¹⁶	4.30 ¹⁰	52.7 ³⁶
20	59.64 ¹⁵	38.2 ¹⁵	27.00 ¹⁵	73.2 ³⁵	29.49 ¹⁸	47.5 ¹⁴	4.34 ¹⁶	49.1 ³²
30	59.77 ¹⁶	36.7 ¹³	27.11 ²³	69.7 ³²	29.61 ¹⁶	46.1 ¹²	4.44 ¹⁶	45.9 ³¹
Febr. 9	59.93 ¹⁹	35.4 ¹¹	27.34 ³³	66.5 ³⁰	29.77 ¹⁸	44.9 ¹¹	4.60 ²²	42.8 ²⁸
19	60.12 ²¹	34.3 ⁹	27.67 ⁴⁴	63.5 ²⁶	29.95 ²¹	43.8 ⁸	4.82 ²⁷	40.0 ²⁴
März 1	60.33 ²³	33.4 ⁶	28.11 ⁵²	60.9 ²²	30.16 ²³	43.0 ⁴	5.09 ³²	37.6 ¹⁹
11	60.56 ²⁶	32.8 ²	28.63 ⁵⁹	58.7 ¹⁶	30.39 ²⁵	42.6 ²	5.41 ³⁵	35.7 ¹⁴
21	60.82 ²⁷	32.6 ²	29.22 ⁶⁴	57.1 ⁹	30.64 ²⁶	42.4 ²	5.76 ³⁸	34.3 ⁸
31	61.09 ²⁸	32.8 ⁵	29.86 ⁶⁷	56.2 ³	30.90 ²⁸	42.6 ⁶	6.14 ⁴⁰	33.5 ¹
April 10	61.37 ²⁸	33.3 ⁹	30.53 ⁶⁸	55.9 ³	31.18 ²⁹	43.2 ⁹	6.54 ⁴¹	33.4 ⁵
20	61.65 ²⁹	34.2 ¹³	31.21 ⁶⁷	56.2 ¹⁰	31.47 ²⁸	44.1 ¹²	6.95 ⁴⁰	33.9 ¹⁰
30	61.94 ²⁹	35.5 ¹⁵	31.88 ⁶⁴	57.2 ¹⁵	31.75 ²⁹	45.3 ¹⁴	7.35 ⁴⁰	34.9 ¹⁷
Mai 10	62.23 ²⁸	37.0 ¹⁸	32.52 ⁵⁹	58.7 ²¹	32.04 ²⁸	46.7 ¹⁷	7.75 ³⁸	36.6 ²²
20	62.51 ²⁶	38.8 ¹⁹	33.11 ⁵²	60.8 ²⁶	32.32 ²⁷	48.4 ¹⁸	8.13 ³⁴	38.8 ²⁶
30	62.77 ²⁴	40.7 ²⁰	33.63 ⁴³	63.4 ³⁰	32.59 ²⁴	50.2 ²⁰	8.47 ³⁰	41.4 ²⁹
Juni 9	63.01 ²¹	42.7 ²¹	34.06 ³⁵	66.4 ³²	32.83 ²¹	52.2 ²⁰	8.77 ²⁵	44.3 ³²
19	63.22 ¹⁸	44.8 ²¹	34.41 ²⁵	69.6 ³⁴	33.04 ¹⁸	54.2 ¹⁹	9.02 ²⁰	47.5 ³⁴
29	63.40 ¹⁴	46.9 ²⁰	34.66 ¹⁴	73.0 ³⁶	33.22 ¹⁵	56.1 ¹⁹	9.22 ¹³	50.9 ³⁴
Juli 9	63.54 ¹⁰	48.9 ¹⁹	34.80 ³	76.6 ³⁶	33.37 ¹⁰	58.0 ¹⁸	9.35 ⁸	54.3 ³⁵
19	63.64 ⁶	50.8 ¹⁸	34.83 ⁸	80.2 ³⁵	33.47 ⁷	59.8 ¹⁶	9.43 ¹	57.8 ³⁴
29	63.70 ¹	52.6 ¹⁶	34.75 ¹⁹	83.7 ³⁴	33.54 ¹	61.4 ¹⁵	9.44 ⁶	61.2 ³²
Aug. 8	63.71 [—]	54.2 ¹⁴	34.56 ²⁹	87.1 ³²	33.55 [—]	62.9 ¹³	9.38 ¹²	64.4 ³⁰
18	63.68 ³	55.6 ¹²	34.27 ³⁹	90.3 ²⁹	33.53 ⁷	64.2 ¹⁰	9.26 ¹⁸	67.4 ²⁷
28	63.61 ⁷	56.8 ⁹	33.88 ⁴⁷	93.2 ²⁶	33.46 ¹¹	65.2 ⁸	9.08 ²³	70.1 ²⁴
Sept. 7	63.50 ¹⁴	57.7 ⁷	33.41 ⁵⁴	95.8 ²¹	33.35 ¹³	66.0 ⁶	8.85 ²⁷	72.5 ²⁰
17	63.36 ¹⁶	58.4 ⁵	32.87 ⁶⁰	97.9 ¹⁷	33.22 ¹⁶	66.6 ⁴	8.58 ³⁰	74.5 ¹⁵
27	63.20 ¹⁸	58.9 ²	32.27 ⁶⁴	99.6 ¹³	33.06 ¹⁷	67.0 ¹	8.28 ³³	76.0 ¹¹
Oct. 7	63.02 ¹⁸	59.1 [—]	31.63 ⁶⁶	100.9 ⁸	32.89 ¹⁸	67.1 ⁰	7.95 ³⁴	77.1 ⁶
17	62.84 ¹⁷	59.0 ³	30.97 ⁶⁷	101.7 [—]	32.71 ¹⁸	67.1 ³	7.61 ³³	77.7 ⁰
27	62.67 ¹⁷	58.7 ⁵	30.30 ⁶⁵	101.8 ⁴	32.53 ¹⁶	66.8 ⁶	7.28 ³³	77.7 ⁵
Nov. 6	62.50 ¹⁴	58.2 ⁸	29.65 ⁶²	101.4 ⁹	32.37 ¹⁴	66.2 ⁷	6.95 ³¹	77.2 ¹⁰
16	62.36 ¹¹	57.4 ¹⁰	29.03 ⁵⁶	100.5 ¹⁵	32.23 ¹¹	65.5 ¹⁰	6.64 ²⁷	76.2 ¹⁶
26	62.25 ⁸	56.4 ¹²	28.47 ⁵⁰	99.0 ²⁰	32.12 ⁸	64.5 ¹¹	6.37 ²³	74.6 ²⁰
Dec. 6	62.17 ⁴	55.2 ¹⁴	27.97 ⁴¹	97.0 ²⁵	32.04 ⁵	63.4 ¹³	6.14 ¹⁸	72.6 ²⁴
16	62.13 ¹	53.8 ¹⁵	27.56 ³¹	94.5 ²⁹	31.99 ¹	62.1 ¹⁴	5.96 ¹²	70.2 ²⁸
26	62.12 [—]	52.3 ¹⁶	27.25 ²¹	91.6 ³³	31.98 [—]	60.7 ¹⁵	5.84 ⁷	67.4 ³¹
36	62.15 ³	50.7 [—]	27.04 [—]	88.3 [—]	32.01 ³	59.2 [—]	5.77 [—]	64.3 [—]
Mittl. Ort	60.09	33.1	30.35	65.7	29.92	42.3	5.75	42.3
	280)		282)		283)		285)	

1902	♄ Sagittae. 3 ^m .6.		♃ Aquilae. 3 ^m .0.		♁ seq. Cygni. 4 ^m .5.		♆ Cephei. 4 ^m .3.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	19 ^h 54 ^m	19° 13'	20 ^h 6 ^m	1° 6'	20 ^h 10 ^m	46° 26'	20 ^h 12 ^m	77° 24'
Jan. 0	23.25	43.0	14.32	37.3	31.66	52.0	6.78	75.6
10	23.29	40.9	14.36	38.4	31.63	49.0	6.40	72.5
20	23.37	38.5	14.45	39.5	31.65	46.0	6.21	69.2
30	23.48	36.5	14.56	40.4	31.74	42.6	6.21	65.5
Febr. 9	23.63	34.6	14.70	41.2	31.87	39.6	6.41	62.2
19	23.81	32.9	14.87	41.8	32.05	36.9	6.80	59.0
März 1	24.01	31.6	15.07	42.2	32.28	34.5	7.36	56.2
11	24.24	30.6	15.29	42.3	32.55	32.6	8.07	53.8
21	24.50	30.1	15.53	42.2	32.85	31.2	8.91	51.9
31	24.77	30.0	15.79	41.8	33.19	30.4	9.84	50.6
April 10	25.05	30.3	16.07	41.1	33.55	30.2	10.84	49.9
20	25.35	31.1	16.35	40.1	33.92	30.6	11.87	49.9
30	25.65	32.4	16.64	38.9	34.29	31.6	12.89	50.4
Mai 10	25.94	34.0	16.93	37.5	34.66	33.1	13.88	51.6
20	26.22	35.9	17.22	36.0	35.02	35.1	14.80	53.4
30	26.49	38.1	17.49	34.3	35.35	37.5	15.63	55.6
Juni 9	26.74	40.4	17.75	32.6	35.65	40.3	16.34	58.3
19	26.96	42.9	17.98	30.9	35.91	43.4	16.92	61.3
29	27.14	45.5	18.18	29.2	36.12	46.7	17.34	64.6
Juli 9	27.28	48.0	18.34	27.6	36.28	50.0	17.60	68.1
19	27.38	50.4	18.47	26.2	36.38	53.4	17.69	71.7
29	27.43	52.7	18.55	24.9	36.43	56.7	17.61	75.3
Aug. 8	27.44	54.8	18.58	23.8	36.41	59.9	17.37	78.8
18	27.41	56.8	18.57	22.9	36.34	62.9	16.96	82.1
28	27.33	58.4	18.52	22.1	36.21	65.6	16.41	85.2
Sept. 7	27.21	59.8	18.43	21.6	36.04	68.0	15.72	88.1
17	27.07	60.9	18.31	21.2	35.82	70.0	14.91	90.6
27	26.90	61.7	18.17	21.0	35.57	71.6	14.00	92.7
Oct. 7	26.71	62.1	18.00	21.0	35.30	72.8	13.02	94.4
17	26.52	62.2	17.83	21.1	35.02	73.5	11.98	95.6
27	26.33	62.0	17.66	21.4	34.73	73.7	10.92	96.2
Nov. 6	26.15	61.5	17.50	21.9	34.45	73.4	9.86	96.3
16	25.99	60.6	17.36	22.5	34.18	72.5	8.83	95.8
26	25.86	59.4	17.24	23.2	33.94	71.2	7.85	94.7
Dec. 6	25.76	57.9	17.16	24.0	33.74	69.4	6.96	93.0
16	25.69	56.1	17.11	24.9	33.58	67.2	6.19	90.9
26	25.66	54.2	17.09	26.0	33.47	64.6	5.56	88.3
36	25.68	52.1	17.11	27.0	33.40	61.7	5.08	85.4
Mittl. Ort	23.90	33.0	14.85	44.7	32.74	38.0	11.68	58.7

286)

287)

288)

502)

1902	24 Vulpecul. 5 ^m .8.		α ² Capricorni. 3 ^m .3.		γ Cygni. 2 ^m .4.		δ Cephei. 4 ^m .0.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	20 ^h 12 ^m	24° 22'	20 ^h 12 ^m	12° 50'	20 ^h 18 ^m	39° 56'	20 ^h 27 ^m	62° 39'
Jan. 0	34.82 ²	18.6 ²²	36.48 ⁴	50.2 ³	41.83 ²	48.2 ²⁸	54.47 ¹⁵	68.9 ³⁰
10	34.84 ⁵	16.4 ²³	36.52 ⁸	50.5 ³	41.81 ²	45.4 ²⁸	54.32 ⁶	65.9 ³³
20	34.89 ⁹	14.1 ²⁵	36.60 ¹²	50.8 ²	41.83 ⁸	42.6 ³²	54.26 ²⁵	62.6 ³⁷
30	34.98 ¹³	11.6 ²²	36.72 ¹⁵	51.0 ¹	41.91 ¹²	39.4 ²⁸	54.28 ¹¹	58.9 ³³
Febr. 9	35.11 ¹⁶	9.4 ¹⁹	36.87 ¹⁷	51.1 ¹	42.03 ¹⁶	36.6 ²⁵	54.39 ²⁰	55.6 ³¹
19	35.27 ²⁰	7.5 ¹⁶	37.04 ²⁰	51.0 ²	42.19 ²⁰	34.1 ²²	54.59 ²⁷	52.5 ²⁸
März 1	35.47 ²²	5.9 ¹²	37.24 ²³	50.8 ⁴	42.39 ²⁵	31.9 ¹⁸	54.86 ³⁵	49.7 ²⁴
11	35.69 ²⁵	4.7 ⁸	37.47 ²⁵	50.4 ⁶	42.64 ²⁸	30.1 ¹³	55.21 ⁴⁰	47.3 ¹⁹
21	35.94 ²⁷	3.9 ³	37.72 ²⁶	49.8 ⁷	42.92 ³⁰	28.8 ⁷	55.61 ⁴⁶	45.4 ¹³
31	36.21 ²⁸	3.6 ²	37.98 ²⁸	49.1 ⁹	43.22 ³²	28.1 ¹	56.07 ⁵⁰	44.1 ⁷
April 10	36.49 ³⁰	3.8 ⁷	38.26 ³⁰	48.2 ¹¹	43.54 ³⁴	28.0 ⁴	56.57 ⁵²	43.4 ⁰
20	36.79 ³¹	4.5 ¹¹	38.56 ³⁰	47.1 ¹²	43.88 ³⁵	28.4 ⁹	57.09 ⁵²	43.4 ⁶
30	37.10 ³⁰	5.6 ¹⁶	38.86 ³⁰	45.9 ¹³	44.23 ³⁵	29.3 ¹⁵	57.61 ⁵²	44.0 ¹²
Mai 10	37.40 ³⁰	7.2 ¹⁹	39.16 ³⁰	44.6 ¹³	44.58 ³³	30.8 ²⁰	58.13 ⁵⁰	45.2 ¹⁷
20	37.70 ²⁸	9.1 ²²	39.46 ²⁸	43.3 ¹⁴	44.91 ³¹	32.8 ²³	58.63 ⁴⁷	46.9 ²³
30	37.98 ²⁶	11.3 ²⁵	39.74 ²⁷	41.9 ¹³	45.22 ²⁹	35.1 ²⁷	59.10 ⁴¹	49.2 ²⁷
Juni 9	38.24 ²⁴	13.8 ²⁶	40.01 ²⁵	40.6 ¹²	45.51 ²⁶	37.8 ³⁰	59.51 ³⁶	51.9 ³¹
19	38.48 ²⁰	16.4 ²⁷	40.26 ²¹	39.4 ¹¹	45.77 ²¹	40.8 ³¹	59.87 ²⁹	55.0 ³³
29	38.68 ¹⁵	19.1 ²⁷	40.47 ¹⁸	38.3 ⁹	45.98 ¹⁶	43.9 ³²	60.16 ²¹	58.3 ³⁴
Juli 9	38.83 ¹²	21.8 ²⁷	40.65 ¹⁴	37.4 ⁸	46.14 ¹²	47.1 ³²	60.37 ¹³	61.7 ³⁶
19	38.95 ⁷	24.5 ²⁶	40.79 ⁹	36.6 ⁶	46.26 ⁷	50.3 ³²	60.50 ⁵	65.3 ³⁶
29	39.02 ²	27.1 ²⁴	40.88 ⁵	36.0 ⁵	46.33 ¹	53.5 ³⁰	60.55 ³	68.9 ³⁶
Aug. 8	39.04 ²	29.5 ²²	40.93 ⁰	35.5 ³	46.34 ⁵	56.5 ²⁸	60.52 ¹²	72.5 ³⁴
18	39.02 ⁷	31.7 ²⁰	40.93 ⁴	35.2 ¹	46.29 ¹⁰	59.3 ²⁶	60.40 ²⁰	75.9 ³¹
28	38.95 ¹¹	33.7 ¹⁷	40.89 ⁸	35.1 ⁰	46.19 ¹⁴	61.9 ²³	60.20 ²⁶	79.0 ²⁹
Sept. 7	38.84 ¹⁵	35.4 ¹³	40.81 ¹²	35.1 ¹	46.05 ¹⁷	64.2 ¹⁹	59.94 ³³	81.9 ²⁵
17	38.69 ¹⁷	36.7 ¹¹	40.69 ¹⁵	35.2 ²	45.88 ²¹	66.1 ¹⁵	59.61 ³⁸	84.4 ²²
27	38.52 ¹⁸	37.8 ⁷	40.54 ¹⁶	35.4 ³	45.67 ²⁴	67.6 ¹¹	59.23 ⁴²	86.6 ¹⁷
Oct. 7	38.34 ²⁰	38.5 ³	40.38 ¹⁷	35.7 ³	45.43 ²⁵	68.7 ⁷	58.81 ⁴⁴	88.3 ¹¹
17	38.14 ²⁰	38.8 ¹	40.21 ¹⁷	36.0 ⁴	45.18 ²⁵	69.4 ²	58.37 ⁴⁶	89.4 ⁷
27	37.94 ¹⁹	38.7 ⁴	40.04 ¹⁶	36.4 ⁴	44.93 ²⁴	69.6 ³	57.91 ⁴⁶	90.1 ¹
Nov. 6	37.75 ¹⁸	38.3 ⁸	39.88 ¹⁵	36.8 ⁴	44.69 ²³	69.3 ⁷	57.45 ⁴⁵	90.2 ⁴
16	37.57 ¹⁵	37.5 ¹²	39.73 ¹²	37.2 ⁴	44.46 ²⁰	68.6 ¹²	57.00 ⁴²	89.8 ¹¹
26	37.42 ¹²	36.3 ¹⁵	39.61 ⁸	37.6 ⁴	44.26 ¹⁸	67.4 ¹⁷	56.58 ³⁸	88.7 ¹⁶
Dec. 6	37.30 ⁸	34.8 ¹⁸	39.53 ⁵	38.0 ⁴	44.08 ¹³	65.7 ²¹	56.20 ³²	87.1 ²¹
16	37.22 ⁵	33.0 ²⁰	39.48 ²	38.4 ⁴	43.95 ¹⁰	63.6 ²⁴	55.88 ²⁶	85.0 ²⁵
26	37.17 ²	31.0 ²³	39.46 ²	38.8 ³	43.85 ⁵	61.2 ²⁷	55.62 ²⁰	82.5 ²⁹
36	37.15	28.7	39.48	39.1	43.80	58.5	55.42	79.6
Mittl. Ort	35.46	7.4	37.04	55.9	42.68	34.5	56.26	52.0
	501)		607)		289)		291)	

1902	ε Delphini 4 ^m .0.		73 Draconis. 5 ^m .3.		β Delphini. 3 ^m .3.		υ Capricorni. 5 ^m .6.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	20 ^h 28 ^m	10° 58'	20 ^h 32 ^m	74° 36'	20 ^h 32 ^m	14° 15'	20 ^h 34 ^m	18° 28'
Jan. 0	31.35	21.0	44.85	85.8	56.67	24.3	27.75	57.3
10	31.36	19.4	44.49	82.9	56.68	22.6	27.77	57.3
20	31.41	17.8	44.28	79.7	56.72	20.8	27.83	57.2
30	31.50	16.1	44.23	76.0	56.80	18.9	27.93	57.0
Febr. 9	31.61	14.7	44.34	72.6	56.91	17.3	28.06	56.6
19	31.76	13.5	44.60	69.4	57.05	15.9	28.22	56.2
März 1	31.94	12.5	45.01	66.5	57.22	14.7	28.41	55.6
11	32.14	11.8	45.55	63.9	57.42	13.9	28.62	54.8
21	32.37	11.4	46.20	61.8	57.65	13.4	28.86	53.9
31	32.62	11.5	46.94	60.3	57.90	13.4	29.12	52.9
April 10	32.89	11.9	47.75	59.4	58.17	13.7	29.40	51.8
20	33.17	12.7	48.60	59.1	58.45	14.5	29.69	50.5
30	33.46	13.9	49.46	59.4	58.74	15.6	30.00	49.2
Mai 10	33.75	15.4	50.31	60.4	59.04	17.1	30.31	47.9
20	34.05	17.1	51.12	61.9	59.33	18.8	30.62	46.6
30	34.33	19.1	51.86	64.0	59.62	20.8	30.92	45.3
Juni 9	34.60	21.2	52.51	66.5	59.89	23.0	31.21	44.1
19	34.84	23.4	53.06	69.4	60.13	25.3	31.47	43.1
29	35.05	25.6	53.50	72.6	60.35	27.7	31.71	42.2
Juli 9	35.22	27.8	53.80	76.1	60.53	30.0	31.92	41.4
19	35.36	29.9	53.97	79.7	60.67	32.3	32.08	40.9
29	35.45	31.9	54.00	83.3	60.76	34.5	32.20	40.5
Aug. 8	35.50	33.7	53.89	86.9	60.81	36.5	32.27	40.4
18	35.51	35.4	53.65	90.4	60.82	38.3	32.29	40.4
28	35.47	36.8	53.27	93.7	60.78	39.9	32.27	40.6
Sept. 7	35.39	37.9	52.78	96.8	60.70	41.2	32.20	40.9
17	35.28	38.8	52.18	99.5	60.59	42.2	32.10	41.3
27	35.14	39.5	51.50	101.9	60.45	43.0	31.97	41.7
Oct. 7	34.98	39.9	50.74	103.8	60.29	43.6	31.81	42.2
17	34.81	40.0	49.93	105.2	60.12	43.8	31.64	42.7
27	34.63	39.9	49.09	106.1	59.94	43.7	31.47	43.1
Nov. 6	34.46	39.5	48.24	106.5	59.77	43.4	31.30	43.5
16	34.31	38.9	47.41	106.2	59.61	42.7	31.15	43.9
26	34.18	38.0	46.61	105.4	59.47	41.8	31.02	44.2
Dec. 6	34.07	36.8	45.87	104.0	59.36	40.6	30.91	44.5
16	33.99	35.5	45.21	102.1	59.28	39.2	30.84	44.7
26	33.95	34.0	44.66	99.7	59.23	37.6	30.81	44.8
36	33.94	32.5	44.23	96.9	59.21	35.9	30.81	44.8
Mittl. Ort	31.84	11.6	48.35	67.6	57.16	14.3	28.30	61.7
	290)		504)		292)		610)	

1902	α Delphini. 3 ^m .6.		α Cygni. 1 ^m .6.		ε Cygni. 2 ^m .6.		ε Aquarii. 3 ^m .6.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	20 ^h 35 ^m	15° 33'	20 ^h 38 ^m	44° 55'	20 ^h 42 ^m	33° 36'	20 ^h 42 ^m	9° 50'
Jan. 0	4.66 ⁰	68.1 ¹⁸	4.61 ⁶	63.1 ²⁸	14.14	24.3 ²⁴	21.78 ²	71.8 ⁴
10	4.66 ³	66.3 ¹⁸	4.55 ²	60.3 ²⁹	14.10 ⁴	21.9 ²⁶	21.80 ⁵	72.2 ⁴
20	4.69 ⁸	64.5 ²⁰	4.53 ⁵	57.4 ³³	14.11 ⁶	19.3 ²⁸	21.85 ⁹	72.6 ³
30	4.77 ¹¹	62.5 ¹⁷	4.58 ¹⁰	54.1 ²⁹	14.17 ⁹	16.5 ²⁵	21.94 ¹¹	72.9 ²
Febr. 9	4.88 ¹⁴	60.8 ¹⁴	4.68 ¹⁴	51.2 ²⁷	14.26 ¹³	14.0 ²³	22.05 ¹⁴	73.1 ⁰
19	5.02 ¹⁷	59.4 ¹²	4.82 ¹⁹	48.5 ²⁴	14.39 ¹⁸	11.7 ²¹	22.19 ¹⁷	73.1 ¹
März 1	5.19 ²⁰	58.2 ⁹	5.01 ²³	46.1 ²¹	14.57 ²¹	9.6 ¹⁶	22.36 ²⁰	73.0 ³
11	5.39 ²²	57.3 ⁶	5.24 ²⁸	44.0 ¹⁶	14.78 ²⁴	8.0 ¹²	22.56 ²²	72.7 ⁶
21	5.61 ²⁵	56.7 ¹	5.52 ³¹	42.4 ¹⁰	15.02 ²⁷	6.8 ⁷	22.78 ²⁵	72.1 ⁷
31	5.86 ²⁷	56.6 ³	5.83 ³⁴	41.4 ⁴	15.29 ³⁰	6.1 ²	23.03 ²⁶	71.4 ¹⁰
April 10	6.13 ²⁹	56.9 ⁷	6.17 ³⁶	41.0 ¹	15.59 ³¹	5.9 ³	23.29 ²⁹	70.4 ¹²
20	6.42 ²⁹	57.6 ¹¹	6.53 ³⁷	41.1 ⁸	15.90 ³³	6.2 ⁹	23.58 ²⁹	69.2 ¹³
30	6.71 ³⁰	58.7 ¹⁵	6.90 ³⁷	41.9 ¹²	16.23 ³³	7.1 ¹³	23.87 ³⁰	67.9 ¹⁴
Mai 10	7.01 ²⁹	60.2 ¹⁸	7.27 ³⁶	43.1 ¹⁸	16.56 ³²	8.4 ¹⁸	24.17 ³⁰	66.5 ¹⁵
20	7.30 ²⁹	62.0 ²⁰	7.63 ³⁴	44.9 ²³	16.88 ³¹	10.2 ²²	24.47 ²⁹	65.0 ¹⁵
30	7.59 ²⁷	64.0 ²²	7.97 ³²	47.2 ²⁶	17.19 ³⁰	12.4 ²⁶	24.76 ²⁹	63.5 ¹⁵
Juni 9	7.86 ²⁵	66.2 ²⁴	8.29 ²⁹	49.8 ²⁹	17.49 ²⁷	15.0 ²⁸	25.05 ²⁶	62.0 ¹⁵
19	8.11 ²¹	68.6 ²⁴	8.58 ²⁴	52.7 ³²	17.76 ²³	17.8 ²⁹	25.31 ²³	60.5 ¹³
29	8.32 ¹⁸	71.0 ²⁴	8.82 ¹⁹	55.9 ³³	17.99 ¹⁹	20.7 ³⁰	25.54 ²⁰	59.2 ¹³
Juli 9	8.50 ¹⁴	73.4 ²⁴	9.01 ¹⁴	59.2 ³³	18.18 ¹⁴	23.7 ³⁰	25.74 ¹⁶	57.9 ¹⁰
19	8.64 ¹⁰	75.8 ²²	9.15 ⁹	62.5 ³³	18.32 ¹⁰	26.7 ³⁰	25.90 ¹²	56.9 ⁹
29	8.74 ⁶	78.0 ²⁰	9.24 ³	65.8 ³³	18.42 ⁵	29.7 ²⁹	26.02 ⁷	56.0 ⁷
Aug. 8	8.80 ⁰	80.0 ¹⁹	9.27 ³	69.1 ³¹	18.47 ¹	32.6 ²⁷	26.09 ³	55.3 ⁵
18	8.80 ⁰	81.9 ¹⁷	9.24 ³	72.2 ²⁸	18.46 ⁵	35.3 ²⁵	26.12 ¹	54.8 ³
28	8.76 ⁷	83.6 ¹⁴	9.15 ¹³	75.0 ²⁶	18.41 ¹⁰	37.8 ²²	26.11 ⁶	54.5 ¹
Sept. 7	8.69 ¹²	85.0 ¹¹	9.02 ¹⁸	77.6 ²²	18.31 ¹³	40.0 ¹⁹	26.05 ¹⁰	54.4 ⁰
17	8.57 ¹⁴	86.1 ⁸	8.84 ²²	79.8 ¹⁸	18.18 ¹⁷	41.9 ¹⁶	25.95 ¹²	54.4 ¹
27	8.43 ¹⁶	86.9 ⁶	8.62 ²⁴	81.6 ¹⁴	18.01 ¹⁹	43.5 ¹¹	25.83 ¹⁵	54.5 ³
Oct. 7	8.27 ¹⁷	87.5 ³	8.38 ²⁶	83.0 ¹⁰	17.82 ²¹	44.6 ⁸	25.68 ¹⁶	54.8 ³
17	8.10 ¹⁸	87.8 ¹	8.12 ²⁷	84.0 ⁵	17.61 ²²	45.4 ³	25.52 ¹⁶	55.1 ⁴
27	7.92 ¹⁷	87.7 ³	7.85 ²⁷	84.5 ⁰	17.39 ²²	45.7 ¹	25.36 ¹⁶	55.5 ⁴
Nov. 6	7.75 ¹⁶	87.4 ⁷	7.58 ²⁶	84.5 ⁵	17.17 ²⁰	45.6 ⁵	25.20 ¹⁵	55.9 ⁵
16	7.59 ¹⁴	86.7 ⁹	7.32 ²³	84.0 ¹⁰	16.97 ¹⁸	45.1 ¹⁰	25.05 ¹³	56.4 ⁵
26	7.45 ¹¹	85.8 ¹²	7.09 ²¹	83.0 ¹⁵	16.79 ¹⁶	44.1 ¹⁴	24.92 ¹⁰	56.9 ⁶
Dec. 6	7.34 ⁹	84.6 ¹⁴	6.88 ¹⁸	81.5 ²⁰	16.63 ¹³	42.7 ¹⁸	24.82 ⁸	57.5 ⁵
16	7.25 ⁶	83.2 ¹⁶	6.70 ¹³	79.5 ²³	16.50 ¹⁰	40.9 ²¹	24.74 ⁴	58.0 ⁶
26	7.19 ²	81.6 ¹⁸	6.57 ⁹	77.2 ²⁷	16.40 ⁵	38.8 ²³	24.70 ⁰	58.6 ⁵
36	7.17	79.8	6.48	74.5	16.35	36.5	24.70	59.1
Mittl. Ort	5.14	57.8	5.46	47.8	14.75	10.7	22.26	77.4
	293)		294)		298)		297)	

1902	η Cephei. 3 ^m .6.		λ Cygni. 4 ^m .6.		32 Vulpecul. 5 ^m .3.		ν Cygni. 4 ^m .0.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	20 ^h 43 ^m	61° 27'	20 ^h 43 ^m	36° 7'	20 ^h 50 ^m	27° 41'	20 ^h 53 ^m	40° 47'
Jan. 0	16.30 ¹⁶	46.3 ²⁸	34.78 ⁴	63.9 ²⁵	22.49 ³	17.5 ²³	30.50 ⁶	38.5 ²⁶
10	16.14 ⁹	43.5 ³²	34.74 ⁰	61.4 ²⁷	22.46 ⁰	15.2 ²³	30.44 ²	35.9 ²⁷
20	16.05 ¹	40.3 ³⁶	34.74 ⁵	58.7 ²⁹	22.46 ⁴	12.9 ²³	30.42 [—]	33.2 ²⁹
30	16.04 ²⁸	36.7 ³²	34.79 ²⁸	55.8 ²⁷	22.50 ¹⁰	10.6 ²⁵	30.44 ⁸	30.3 ³⁰
Febr. 9	16.13 ¹⁶	33.5 ³¹	34.88 ¹³	53.1 ²⁴	22.60 ³⁰	8.1 ²¹	30.52 ³¹	27.3 ²⁶
19	16.29 ²⁴	30.4 ²⁹	35.01 ¹⁸	50.7 ²¹	22.73 ¹⁶	6.0 ¹⁸	30.64 ¹⁷	24.7 ²³
März 1	16.53 ³¹	27.5 ²⁴	35.19 ²¹	48.6 ¹⁸	22.89 ¹⁹	4.2 ¹⁴	30.81 ²¹	22.4 ²⁰
11	16.84 ³⁷	25.1 ²⁰	35.40 ²⁴	46.8 ¹³	23.08 ²²	2.8 ¹⁰	31.02 ²⁵	20.4 ¹⁵
21	17.21 ⁴²	23.1 ¹⁴	35.64 ²⁸	45.5 ⁸	23.30 ²⁶	1.8 ⁶	31.27 ²⁸	18.9 ¹¹
31	17.63 ⁴⁷	21.7 ⁹	35.92 ³⁰	44.7 ³	23.56 ²⁸	1.2 ¹	31.55 ³¹	17.8 ⁵
April 10	18.10 ⁴⁹	20.8 ²	36.22 ³²	44.4 ³	23.84 ²⁹	1.1 ⁴	31.86 ³⁴	17.3 ¹
20	18.59 ⁵¹	20.6 ⁵	36.54 ³³	44.7 ⁸	24.13 ³¹	1.5 ⁹	32.20 ³⁵	17.4 ⁷
30	19.10 ⁵¹	21.1 ¹⁰	36.87 ³⁴	45.5 ¹³	24.44 ³²	2.4 ¹³	32.55 ³⁵	18.1 ¹²
Mai 10	19.61 ⁵⁰	22.1 ¹⁶	37.21 ³³	46.8 ¹⁸	24.76 ³¹	3.7 ¹⁸	32.90 ³⁵	19.3 ¹⁷
20	20.11 ⁴⁷	23.7 ²²	37.54 ³²	48.6 ²²	25.07 ³¹	5.5 ²¹	33.25 ³⁴	21.0 ²¹
30	20.58 ⁴²	25.9 ²⁶	37.86 ³⁰	50.8 ²⁵	25.38 ²⁹	7.6 ²⁴	33.59 ³²	23.1 ²⁵
Juni 9	21.00 ³⁷	28.5 ³⁰	38.16 ²⁷	53.3 ²⁸	25.67 ²⁶	10.0 ²⁶	33.91 ²⁹	25.6 ²⁸
19	21.37 ³¹	31.5 ³²	38.43 ²⁴	56.1 ³⁰	25.93 ²³	12.6 ²⁸	34.20 ²⁵	28.4 ³⁰
29	21.68 ²⁴	34.7 ³⁵	38.67 ¹⁹	59.1 ³¹	26.16 ²⁰	15.4 ²⁸	34.45 ²¹	31.4 ³²
Juli 9	21.92 ¹⁶	38.2 ³⁶	38.86 ¹⁵	62.2 ³¹	26.36 ¹⁵	18.2 ²⁸	34.66 ¹⁶	34.6 ³³
19	22.08 ⁹	41.8 ³⁶	39.01 ⁹	65.3 ³¹	26.51 ¹¹	21.0 ²⁸	34.82 ¹⁰	37.9 ³²
29	22.17 ⁰	45.4 ³⁶	39.10 ⁵	68.4 ³⁰	26.62 ⁶	23.8 ²⁷	34.92 ⁵	41.1 ³²
Aug. 8	22.17 ⁸	49.0 ³⁵	39.15 ¹	71.4 ²⁸	26.68 ¹	26.5 ²⁵	34.97 ⁰	44.3 ³⁰
18	22.09 ¹⁵	52.5 ³³	39.14 ⁶	74.2 ²⁵	26.69 [—]	29.0 ²²	34.97 ⁵	47.3 ²⁷
28	21.94 ²²	55.8 ³⁰	39.08 ¹⁰	76.7 ²³	26.66 ³	31.2 ²⁰	34.92 ¹⁰	50.0 ²⁵
Sept. 7	21.72 ²⁹	58.8 ²⁷	38.98 ¹⁴	79.0 ²⁰	26.58 ¹²	33.2 ¹⁷	34.82 ¹⁵	52.5 ²²
17	21.43 ³⁴	61.5 ²³	38.84 ¹⁸	81.0 ¹⁶	26.46 ¹⁵	34.9 ¹⁴	34.67 ¹⁸	54.7 ¹⁹
27	21.09 ³⁸	63.8 ¹⁹	38.66 ²⁰	82.6 ¹³	26.31 ¹⁷	36.3 ¹¹	34.49 ²¹	56.6 ¹⁵
Oct. 7	20.71 ⁴¹	65.7 ¹⁴	38.46 ²²	83.9 ⁸	26.14 ¹⁹	37.4 ⁶	34.28 ²³	58.1 ¹⁰
17	20.30 ⁴³	67.1 ⁹	38.24 ²²	84.7 ⁴	25.95 ¹⁹	38.0 ³	34.05 ²⁴	59.1 ⁶
27	19.87 ⁴⁴	68.0 ³	38.02 ²²	85.1 ¹	25.76 ²⁰	38.3 ¹	33.81 ²⁴	59.7 ¹
Nov. 6	19.43 ⁴²	68.3 ³	37.80 ²¹	85.0 ⁵	25.56 ¹⁹	38.2 ⁶	33.57 ²³	59.8 [—]
16	19.01 ⁴¹	68.0 ⁸	37.59 ²⁰	84.5 ¹⁰	25.37 ¹⁶	37.6 ⁹	33.34 ²²	59.4 ⁴
26	18.60 ³⁷	67.2 ¹⁴	37.39 ¹⁷	83.5 ¹⁴	25.21 ¹⁵	36.7 ¹²	33.12 ²⁰	58.5 ¹³
Dec. 6	18.23 ³²	65.8 ¹⁹	37.22 ¹⁴	82.1 ¹⁸	25.06 ¹²	35.5 ¹⁶	32.92 ¹⁶	57.2 ¹⁸
16	17.91 ²⁷	63.9 ²³	37.08 ¹¹	80.3 ²¹	24.94 ⁸	33.9 ¹⁹	32.76 ¹³	55.4 ²¹
26	17.64 ²⁰	61.6 ²⁸	36.97 ⁶	78.2 ²⁴	24.86 ⁵	32.0 ²²	32.63 ⁹	53.3 ²⁵
36	17.44	58.8	36.91	75.8	24.81	29.8	32.54	50.8
Mittl. Ort	17.82	28.6	35.42	49.7	22.99	4.6	31.16	23.1
	299)		506)		507)		300)	

1902	61 Cygni pr. 5 ^m .7. ⁵)		v Aquarii. 4 ^m .3.		Br. 2777. 5 ^m .8.		ζ Cygni. 3 ^m .0.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +	AR.	Decl. +
	21 ^h 2 ^m	38° 15'	21 ^h 4 ^m	11° 45'	21 ^h 7 ^m	77° 43'	21 ^h 8 ^m	29° 49'
Jan. 0	29.45	76.3	14.95	62.7	24.40	65.0	45.44	42.4
10	29.40	73.9	14.95	63.1	23.82	62.4	45.39	40.2
20	29.39	71.3	14.97	63.3	23.38	59.4	45.38	37.9
30	29.42	68.7	15.03	63.4	23.14	56.2	45.40	35.6
Febr. 9	29.51	65.9	15.13	63.5	23.09	52.5	45.47	33.0
19	29.64	63.5	15.25	63.3	23.25	49.2	45.57	30.8
März 1	29.81	61.4	15.40	63.0	23.60	46.1	45.71	28.9
11	30.02	59.6	15.58	62.5	24.13	43.3	45.89	27.3
21	30.27	58.3	15.79	61.8	24.82	40.9	46.10	26.1
31	30.56	57.4	16.02	60.9	25.65	38.9	46.35	25.4
April 10	30.87	57.1	16.28	59.8	26.58	37.5	46.62	25.1
20	31.20	57.3	16.55	58.6	27.59	36.7	46.91	25.3
30	31.55	58.1	16.84	57.2	28.64	36.6	47.23	26.1
Mai 10	31.90	59.4	17.14	55.7	29.70	37.0	47.55	27.3
20	32.25	61.2	17.45	54.1	30.73	38.1	47.87	28.9
30	32.59	63.5	17.76	52.5	31.70	39.7	48.19	30.9
Juni 9	32.92	66.1	18.05	51.0	32.59	41.9	48.49	33.3
19	33.21	68.9	18.32	49.5	33.37	44.4	48.77	35.9
29	33.47	72.0	18.57	48.2	34.02	47.4	49.02	38.7
Juli 9	33.69	75.2	18.79	47.0	34.52	50.6	49.24	41.5
19	33.87	78.4	18.98	46.0	34.87	54.1	49.41	44.4
29	33.99	81.7	19.12	45.2	35.04	57.7	49.53	47.3
Aug. 8	34.05	84.9	19.21	44.6	35.05	61.4	49.61	50.1
18	34.07	87.9	19.26	44.2	34.89	65.0	49.64	52.7
28	34.04	90.7	19.26	43.9	34.57	68.6	49.62	55.1
Sept. 7	33.95	93.2	19.23	43.9	34.10	71.9	49.56	57.3
17	33.83	95.4	19.15	44.0	33.48	75.0	49.46	59.2
27	33.67	97.3	19.04	44.2	32.74	77.8	49.32	60.8
Oct. 7	33.48	98.7	18.91	44.6	31.89	80.2	49.16	62.0
17	33.27	99.8	18.76	45.0	30.95	82.2	48.98	62.8
27	33.05	100.4	18.60	45.5	29.95	83.6	48.78	63.3
Nov. 6	32.83	100.6	18.44	46.0	28.91	84.6	48.59	63.4
16	32.62	100.3	18.29	46.5	27.86	84.9	48.40	63.0
26	32.43	99.5	18.15	47.0	26.83	84.7	48.22	62.2
Dec. 6	32.25	98.3	18.04	47.5	25.85	83.9	48.06	61.1
16	32.11	96.7	17.95	48.0	24.94	82.5	47.93	59.6
26	32.00	94.7	17.89	48.4	24.13	80.5	47.82	57.8
36	31.92	92.5	17.87	48.8	23.45	78.1	47.75	55.7
Mittl. Ort	30.03	61.5	15.37	67.5	27.99	44.3	45.86	28.7
	302)		611)		510)		303)	

*) Die jährliche Parallaxe ist bereits angebracht.

1902	α Equulei. 4 ^m .0.		α Cephei. 2 ^m .6.		ι Pegasi. 4 ^m .3.		ζ Capricorni. 4 ^m .1.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -
	21 ^h 10 ^m	4° 50'	21 ^h 16 ^m	62° 10'	21 ^h 17 ^m	19° 23'	21 ^h 21 ^m	22° 49'
Jan. 0	55.14	41.3	13.30	31.5	32.88	17.9	3.93	68.9
10	55.13	40.1	13.08	29.0	32.85	16.1	3.91	68.6
20	55.14	38.9	12.93	26.0	32.84	14.2	3.92	68.2
30	55.18	37.8	12.86	22.9	32.86	12.4	3.97	67.7
Febr. 9	55.26	36.7	12.88	19.3	32.93	10.4	4.05	66.9
19	55.37	35.9	12.97	16.1	33.03	8.7	4.16	66.0
März 1	55.51	35.2	13.15	13.1	33.16	7.3	4.31	65.0
11	55.67	34.8	13.41	10.4	33.32	6.2	4.48	63.9
21	55.87	34.8	13.74	8.2	33.51	5.4	4.69	62.6
31	56.09	35.0	14.13	6.4	33.74	5.0	4.92	61.2
April 10	56.34	35.6	14.58	5.2	33.99	5.1	5.18	59.7
20	56.61	36.4	15.07	4.6	34.26	5.6	5.46	58.1
30	56.89	37.6	15.58	4.6	34.55	6.5	5.76	56.5
Mai 10	57.18	39.1	16.11	5.2	34.86	7.8	6.07	54.9
20	57.48	40.7	16.63	6.4	35.16	9.4	6.39	53.4
30	57.77	42.6	17.13	8.2	35.47	11.4	6.72	51.9
Juni 9	58.06	44.6	17.60	10.4	35.76	13.6	7.03	50.6
19	58.33	46.6	18.03	13.1	36.04	16.0	7.33	49.5
29	58.57	48.6	18.40	16.2	36.29	18.5	7.61	48.6
Juli 9	58.79	50.5	18.71	19.5	36.51	21.0	7.86	47.9
19	58.97	52.4	18.94	23.0	36.69	23.5	8.06	47.4
29	59.10	54.2	19.09	26.6	36.82	26.0	8.23	47.1
Aug. 8	59.19	55.8	19.16	30.2	36.91	28.3	8.35	47.1
18	59.24	57.2	19.15	33.8	36.96	30.5	8.42	47.3
28	59.24	58.4	19.06	37.2	36.96	32.5	8.44	47.7
Sept. 7	59.21	59.3	18.90	40.4	36.92	34.2	8.42	48.3
17	59.13	60.0	18.67	43.4	36.84	35.6	8.35	49.0
27	59.03	60.5	18.38	46.1	36.73	36.8	8.24	49.8
Oct. 7	58.90	60.8	18.03	48.3	36.59	37.7	8.11	50.6
17	58.75	60.9	17.64	50.1	36.44	38.3	7.96	51.3
27	58.59	60.7	17.23	51.4	36.27	38.5	7.79	52.1
Nov. 6	58.44	60.4	16.81	52.1	36.10	38.5	7.62	52.7
16	58.29	59.9	16.38	52.3	35.93	38.1	7.46	53.2
26	58.15	59.2	15.96	51.9	35.78	37.4	7.32	53.6
Dec. 6	58.03	58.3	15.57	50.9	35.64	36.4	7.19	53.9
16	57.94	57.4	15.21	49.4	35.53	35.1	7.09	54.0
26	57.87	56.3	14.90	47.4	35.44	33.6	7.01	54.0
36	57.83	55.1	14.64	44.9	35.38	31.9	6.97	53.9
Mittl. Ort	55.47	33.0	14.47	12.0	33.20	6.2	4.40	70.8
	304)		306)		512)		612)	

1902	β Aquarii. 3 ^m .o.		β Cephei. 3 ^m .o.		74 Cygni. 5 ^m .o.		ε Pegasi. 2 ^m .3.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	21 ^h 26 ^m	5° 59'	21 ^h 27 ^m	70° 7'	21 ^h 33 ^m	39° 58'	21 ^h 39 ^m	9° 25'
Jan. 0	23.69	63.5	22.25	70.2	0.85	38.9	22.16	41.2
10	23.66	64.1	21.89	67.7	0.75	36.6	22.11	40.0
20	23.67	64.7	21.61	64.8	0.69	34.1	22.09	38.7
30	23.70	65.2	21.44	61.7	0.67	31.5	22.10	37.4
Febr. 9	23.77	65.5	21.39	58.1	0.69	28.8	22.15	36.1
19	23.87	65.7	21.46	54.8	0.77	26.0	22.23	34.9
März 1	23.99	65.7	21.65	51.7	0.89	23.6	22.34	34.0
11	24.15	65.4	21.96	48.8	1.05	21.5	22.48	33.4
21	24.34	65.0	22.37	46.3	1.26	19.8	22.65	33.1
31	24.55	64.3	22.86	44.2	1.51	18.6	22.85	33.1
April 10	24.79	63.3	23.44	42.7	1.79	17.8	23.08	33.5
20	25.05	62.1	24.08	41.8	2.10	17.6	23.34	34.2
30	25.33	60.7	24.75	41.5	2.44	17.9	23.61	35.3
Mai 10	25.63	59.2	25.44	41.9	2.79	18.8	23.91	36.6
20	25.93	57.5	26.13	42.8	3.15	20.2	24.21	38.2
30	26.23	55.8	26.80	44.4	3.50	22.0	24.51	40.1
Juni 9	26.52	54.0	27.42	46.4	3.84	24.2	24.81	42.2
19	26.80	52.3	27.99	48.9	4.16	26.8	25.09	44.3
29	27.06	50.7	28.48	51.8	4.44	29.7	25.35	46.5
Juli 9	27.29	49.1	28.88	55.0	4.69	32.7	25.58	48.7
19	27.49	47.8	29.19	58.5	4.90	35.8	25.78	50.8
29	27.64	46.6	29.39	62.1	5.05	39.0	25.94	52.8
Aug. 8	27.76	45.6	29.49	65.8	5.16	42.2	26.06	54.7
18	27.83	44.8	29.48	69.4	5.21	45.3	26.13	56.4
28	27.85	44.2	29.36	73.0	5.21	48.2	26.16	57.9
Sept. 7	27.83	43.8	29.15	76.4	5.16	50.9	26.15	59.1
17	27.77	43.6	28.84	79.6	5.06	53.3	26.10	60.1
27	27.68	43.6	28.44	82.5	4.92	55.4	26.01	60.9
Oct. 7	27.56	43.7	27.97	85.0	4.75	57.1	25.90	61.5
17	27.42	44.0	27.44	87.1	4.56	58.5	25.77	61.8
27	27.27	44.4	26.87	88.7	4.34	59.4	25.62	61.8
Nov. 6	27.12	44.9	26.27	89.8	4.12	59.9	25.47	61.6
16	26.97	45.5	25.66	90.3	3.90	59.9	25.32	61.2
26	26.84	46.1	25.05	90.3	3.68	59.5	25.18	60.6
Dec. 6	26.72	46.7	24.47	89.6	3.48	58.6	25.05	59.8
16	26.62	47.4	23.92	88.3	3.30	57.2	24.94	58.8
26	26.55	48.0	23.43	86.5	3.15	55.4	24.85	57.6
36	26.51	48.7	23.01	84.2	3.03	53.3	24.79	56.4
Mittl. Ort	24.00	69.1	23.89	49.2	1.22	22.4	22.35	32.0

307)

308)

514)

309)

1902	♄ Capricorni. 3 ^m .o.		♃ Cygni. 4 ^m .3.		16 Pegasi. 5 ^m .3.		α Aquarii. 3 ^m .o.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.	AR.	Decl.
	21 ^h 41 ^m	16° 33'	21 ^h 43 ^m	48° 51'	21 ^h 48 ^m	25° 27'	22 ^h 0 ^m	0° 47'
Jan. 0	37.63	77.6	9.94	39.4	35.99	63.2	44.87	39.6
10	37.59	77.7	9.79	37.0	35.91	61.4	44.81	40.4
20	37.58	77.7	9.69	34.4	35.87	59.4	44.79	41.2
30	37.60	77.5	9.63	31.6	35.86	57.4	44.79	41.9
Febr. 9	37.65	77.2	9.63	28.7	35.88	55.3	44.81	42.5
19	37.75	76.6	9.69	25.6	35.94	53.2	44.87	42.9
März 1	37.87	75.9	9.80	22.9	36.04	51.5	44.96	43.2
11	38.02	75.1	9.96	20.4	36.18	50.0	45.08	43.2
21	38.19	74.1	10.18	18.3	36.35	48.9	45.24	43.0
31	38.40	72.8	10.45	16.7	36.56	48.1	45.42	42.5
April 10	38.64	71.5	10.76	15.6	36.80	47.8	45.64	41.7
20	38.90	70.0	11.11	15.0	37.06	48.0	45.88	40.6
30	39.19	68.4	11.49	15.0	37.35	48.6	46.14	39.3
Mai 10	39.49	66.7	11.88	15.6	37.66	49.6	46.43	37.8
20	39.80	65.0	12.28	16.8	37.98	51.1	46.73	36.1
30	40.11	63.4	12.68	18.4	38.30	52.9	47.03	34.3
Juni 9	40.42	61.8	13.06	20.6	38.61	55.0	47.33	32.4
19	40.72	60.3	13.42	23.1	38.91	57.4	47.62	30.4
29	41.00	59.1	13.75	25.9	39.18	60.0	47.89	28.5
Juli 9	41.25	58.0	14.03	29.0	39.43	62.6	48.14	26.7
19	41.47	57.1	14.26	32.3	39.64	65.4	48.36	25.0
29	41.65	56.4	14.44	35.7	39.81	68.1	48.54	23.5
Aug. 8	41.78	56.0	14.56	39.1	39.93	70.7	48.69	22.1
18	41.87	55.8	14.62	42.5	40.01	73.2	48.79	21.0
28	41.91	55.9	14.62	45.7	40.04	75.5	48.84	20.1
Sept. 7	41.91	56.1	14.56	48.7	40.03	77.6	48.85	19.4
17	41.87	56.5	14.45	51.5	39.97	79.5	48.82	18.9
27	41.78	57.0	14.30	54.0	39.88	81.1	48.76	18.6
Oct. 7	41.67	57.7	14.11	56.1	39.76	82.3	48.67	18.5
17	41.53	58.3	13.88	57.9	39.61	83.3	48.55	18.6
27	41.38	59.0	13.63	59.2	39.45	83.9	48.42	18.9
Nov. 6	41.23	59.7	13.36	60.0	39.28	84.1	48.28	19.3
16	41.08	60.3	13.09	60.3	39.11	84.0	48.14	19.8
26	40.94	60.9	12.82	60.0	38.94	83.5	48.00	20.4
Dec. 6	40.81	61.4	12.57	59.3	38.79	82.7	47.88	21.1
16	40.70	61.7	12.34	58.0	38.65	81.5	47.77	21.9
26	40.62	62.0	12.13	56.3	38.53	80.1	47.68	22.7
36	40.57	62.2	11.96	54.1	38.44	78.4	47.61	23.5
Mittl. Ort	37.96	80.3	10.36	20.9	36.15	49.8	45.00	45.9
	(615)		(517)		(518)		(311)	

1902	♈ Aquarii. 4 ^m .0.		♄ Cephei. 5 ^m .8.		♃ Pegasi. 3 ^m .3.		♊ Pegasi 4 ^m .2.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	22 ^h 1 ^m	14° 20'	22 ^h 2 ^m	62° 18'	22 ^h 5 ^m	5° 42'	22 ^h 5 ^m	32° 41'
Jan. 0	8.44	40.6	1.16	48.1	15.29	64.1	37.97	65.8
10	8.39	40.8	0.88	45.9	15.23	63.1	37.87	63.9
20	8.36	40.9	0.65	43.3	15.20	62.0	37.80	61.8
30	8.36	40.8	0.49	40.4	15.19	61.0	37.76	59.6
Febr. 9	8.39	40.5	0.41	37.3	15.21	60.0	37.75	57.3
19	8.46	40.1	0.41	33.9	15.27	59.1	37.79	54.8
März 1	8.55	39.5	0.50	30.8	15.35	58.4	37.87	52.7
11	8.68	38.7	0.67	27.9	15.46	58.0	37.99	50.9
21	8.83	37.8	0.93	25.4	15.61	57.9	38.15	49.4
31	9.02	36.6	1.25	23.2	15.80	58.1	38.35	48.3
April 10	9.24	35.2	1.65	21.5	16.01	58.6	38.59	47.6
20	9.49	33.7	2.10	20.4	16.25	59.4	38.86	47.4
30	9.76	32.1	2.59	19.9	16.51	60.5	39.16	47.7
Mai 10	10.05	30.4	3.11	20.0	16.80	61.9	39.48	48.4
20	10.36	28.6	3.64	20.6	17.10	63.5	39.81	49.7
30	10.67	26.8	4.17	21.9	17.40	65.4	40.15	51.3
Juni 9	10.98	25.1	4.69	23.7	17.70	67.4	40.48	53.3
19	11.28	23.5	5.17	25.9	17.99	69.4	40.80	55.7
29	11.57	22.0	5.61	28.6	18.27	71.5	41.10	58.3
Juli 9	11.83	20.7	5.99	31.6	18.52	73.5	41.37	61.1
19	12.06	19.7	6.31	34.9	18.74	75.5	41.60	64.0
29	12.25	18.8	6.56	38.4	18.92	77.4	41.79	66.9
Aug. 8	12.40	18.2	6.73	42.0	19.07	79.1	41.93	69.8
18	12.50	17.9	6.82	45.6	19.17	80.6	42.03	72.6
28	12.56	17.8	6.83	49.2	19.22	81.9	42.07	75.3
Sept. 7	12.58	17.9	6.77	52.6	19.24	83.0	42.07	77.8
17	12.55	18.1	6.63	55.9	19.21	83.9	42.03	80.0
27	12.49	18.5	6.42	59.0	19.15	84.5	41.94	82.0
Oct. 7	12.39	19.1	6.16	61.7	19.06	84.9	41.82	83.7
17	12.27	19.8	5.84	64.0	18.95	85.1	41.68	85.0
27	12.14	20.5	5.49	65.8	18.82	85.1	41.52	86.0
Nov. 6	11.99	21.2	5.10	67.2	18.68	84.9	41.34	86.6
16	11.84	21.8	4.70	68.0	18.54	84.5	41.15	86.7
26	11.70	22.5	4.29	68.3	18.40	83.9	40.97	86.4
Dec. 6	11.57	23.1	3.89	67.9	18.27	83.2	40.79	85.8
16	11.46	23.5	3.50	67.0	18.16	82.3	40.63	84.7
26	11.37	23.9	3.15	65.6	18.06	81.3	40.49	83.3
36	11.30	24.2	2.84	63.6	17.99	80.3	40.37	81.6
Mittl. Ort	8.66	43.1	1.71	26.7	15.38	56.1	38.04	50.4
	(616)		(520)		(314)		(315)	

1902	ζ Cephei. 3 ^m .4.		24 Cephei. 4 ^m .8.		θ Aquarii. 4 ^m .3.		γ Aquarii. 3 ^m .4.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -	AR.	Decl. -
	22 ^h 7 ^m	57° 42'	22 ^h 7 ^m	71° 51'	22 ^h 11 ^m	8° 15'	22 ^h 16 ^m	1° 52'
Jan. 0	26.77	85.6	54.40	53.0	39.63	73.3	35.59	47.1
10	26.53	83.4	53.92	50.9	39.57	73.7	35.52	47.8
20	26.34	80.9	53.52	48.4	39.54	74.1	35.48	48.5
30	26.21	78.1	53.22	45.6	39.53	74.4	35.47	49.1
Febr. 9	26.14	75.1	53.04	42.5	39.55	74.5	35.48	49.7
19	26.14	71.8	52.98	38.9	39.60	74.5	35.52	50.0
März 1	26.22	68.8	53.06	35.7	39.69	74.3	35.60	50.2
11	26.36	66.0	53.27	32.6	39.80	73.8	35.71	50.1
21	26.58	63.5	53.60	29.8	39.94	73.2	35.85	49.8
31	26.87	61.4	54.05	27.4	40.12	72.3	36.02	49.2
April 10	27.22	59.8	54.60	25.5	40.33	71.1	36.22	48.4
20	27.61	58.8	55.23	24.1	40.57	69.8	36.45	47.3
30	28.04	58.3	55.92	23.3	40.83	68.3	36.71	46.0
Mai 10	28.50	58.4	56.66	23.0	41.11	66.6	36.99	44.4
20	28.97	59.1	57.41	23.4	41.41	64.9	37.29	42.7
30	29.45	60.4	58.16	24.4	41.72	63.1	37.59	40.9
Juni 9	29.91	62.2	58.89	26.0	42.02	61.2	37.89	39.0
19	30.35	64.5	59.57	28.1	42.32	59.4	38.19	37.0
29	30.76	67.1	60.18	30.6	42.60	57.7	38.47	35.1
Juli 9	31.11	70.1	60.72	33.5	42.87	56.2	38.73	33.3
19	31.41	73.4	61.16	36.7	43.10	54.8	38.96	31.6
29	31.65	76.8	61.50	40.2	43.29	53.6	39.15	30.1
Aug. 8	31.82	80.3	61.73	43.8	43.45	52.6	39.31	28.8
18	31.92	83.9	61.84	47.5	43.56	51.9	39.43	27.7
28	31.95	87.4	61.84	51.2	43.63	51.4	39.50	26.8
Sept. 7	31.91	90.8	61.73	54.8	43.65	51.1	39.52	26.2
17	31.81	94.0	61.52	58.3	43.64	51.1	39.51	25.7
27	31.65	96.9	61.20	61.5	43.58	51.2	39.47	25.5
Oct. 7	31.43	99.5	60.80	64.5	43.50	51.5	39.39	25.5
17	31.17	101.7	60.32	67.1	43.39	51.9	39.28	25.6
27	30.88	103.5	59.77	69.2	43.26	52.4	39.16	25.9
Nov. 6	30.56	104.8	59.17	70.8	43.12	53.0	39.02	26.3
16	30.22	105.6	58.54	71.9	42.98	53.6	38.89	26.9
26	29.88	105.8	57.89	72.5	42.84	54.3	38.75	27.5
Dec. 6	29.54	105.5	57.24	72.5	42.72	54.9	38.62	28.2
16	29.22	104.6	56.61	71.8	42.61	55.6	38.51	28.9
26	28.93	103.2	56.02	70.5	42.51	56.2	38.42	29.7
36	28.66	101.3	55.50	68.7	42.44	56.7	38.34	30.5
Mittl. Ort	27.10	64.8	55.38	30.2	39.76	77.2	35.65	52.7
	316)		521)		522)		317)	

1902	3 Lacertae. 4 ^m .4.		7 Lacertae. 4 ^m .0.		7 Aquarii. 3 ^m .8.		10 Lacertae. 5 ^m .0.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +
	22 ^h 19 ^m	51° 44'	22 ^h 27 ^m	49° 46'	22 ^h 30 ^m	0° 36'	22 ^h 34 ^m	38° 32'
Jan. 0	42.16 ²⁰	36.0 ²⁰	15.14 ¹⁹	61.9 ²⁰	19.22 ⁷	76.4 ⁸	51.90 ¹⁴	41.4 ¹⁷
10	41.96 ¹⁶	34.0 ²³	14.95 ¹⁶	59.9 ²³	19.15 ⁵	77.2 ⁷	51.76 ¹¹	39.7 ²¹
20	41.80 ¹²	31.7 ²⁷	14.79 ¹¹	57.6 ²⁵	19.10 ³	77.9 ⁷	51.65 ⁸	37.6 ²²
30	41.68 ⁶	29.0 ²⁸	14.68 ⁷	55.1 ²⁷	19.07 ¹	78.6 ⁵	51.57 ⁵	35.4 ²⁴
Febr. 9	41.62 ¹	26.2 ²⁹	14.61 ²	52.4 ²⁸	19.06 ³	79.1 ⁴	51.52 ¹	33.0 ²⁴
19	41.61 ⁶	23.3 ³¹	14.59 ⁵	49.6 ³⁰	19.09 ⁷	79.5 ³	51.51 ⁴	30.6 ²⁶
März 1	41.67 ¹²	20.2 ²⁶	14.64 ¹¹	46.6 ²⁶	19.16 ⁹	79.8 ⁰	51.55 ⁹	28.0 ²¹
11	41.79 ¹⁸	17.6 ²⁴	14.75 ¹⁶	44.0 ²³	19.25 ¹²	79.8 ²	51.64 ¹⁴	25.9 ¹⁹
21	41.97 ²⁴	15.2 ¹⁹	14.91 ²²	41.7 ¹⁹	19.37 ¹⁶	79.6 ⁵	51.78 ¹⁸	24.0 ¹⁵
31	42.21 ²⁹	13.3 ¹⁵	15.13 ²⁷	39.8 ¹⁵	19.53 ¹⁹	79.1 ⁸	51.96 ²³	22.5 ¹¹
April 10	42.50 ³⁴	11.8 ¹⁰	15.40 ³²	38.3 ¹⁰	19.72 ²³	78.3 ¹¹	52.19 ²⁷	21.4 ⁶
20	42.84 ³⁷	10.8 ⁴	15.72 ³⁶	37.3 ⁴	19.95 ²⁵	77.2 ¹³	52.46 ³⁰	20.8 ¹
30	43.21 ⁴⁰	10.4 ¹	16.08 ³⁹	36.9 ¹	20.20 ²⁷	75.9 ¹⁵	52.76 ³²	20.7 ⁴
Mai 10	43.61 ⁴²	10.5 ⁷	16.47 ⁴⁰	37.0 ⁶	20.47 ²⁹	74.4 ¹⁷	53.08 ³⁵	21.1 ⁹
20	44.03 ⁴³	11.2 ¹²	16.87 ⁴¹	37.6 ¹²	20.76 ³⁰	72.7 ¹⁸	53.43 ³⁶	22.0 ¹³
30	44.46 ⁴²	12.4 ¹⁷	17.28 ⁴¹	38.8 ¹⁷	21.06 ³¹	70.9 ¹⁹	53.79 ³⁶	23.3 ¹⁸
Juni 9	44.88 ⁴⁰	14.1 ²²	17.69 ⁴⁰	40.5 ²²	21.37 ³⁰	69.0 ²⁰	54.15 ³⁵	25.1 ²¹
19	45.28 ³⁷	16.3 ²⁶	18.09 ³⁷	42.7 ²⁵	21.67 ²⁹	67.0 ¹⁹	54.50 ³³	27.2 ²⁵
29	45.65 ³⁴	18.9 ²⁹	18.46 ³⁴	45.2 ²⁸	21.96 ²⁷	65.1 ¹⁹	54.83 ³⁰	29.7 ²⁷
Juli 9	45.99 ²⁹	21.8 ³²	18.80 ²⁹	48.0 ³¹	22.23 ²⁴	63.2 ¹⁸	55.13 ²⁷	32.4 ²⁹
19	46.28 ²⁴	25.0 ³³	19.09 ²⁴	51.1 ³³	22.47 ²⁰	61.4 ¹⁶	55.40 ²²	35.3 ³⁰
29	46.52 ¹⁸	28.3 ³³	19.33 ¹⁹	54.4 ³³	22.67 ¹⁷	59.8 ¹⁴	55.62 ¹⁸	38.3 ³⁰
Aug. 8	46.70 ¹¹	31.6 ³³	19.52 ¹³	57.7 ³³	22.84 ¹²	58.4 ¹²	55.80 ¹³	41.3 ³¹
18	46.81 ⁶	35.0 ³⁴	19.65 ⁷	61.1 ³⁴	22.96 ⁹	57.2 ¹⁰	55.93 ⁹	44.4 ²⁹
28	46.87 ⁰	38.4 ³³	19.72 ¹	64.4 ³²	23.05 ⁴	56.2 ⁷	56.02 ³	47.3 ²⁸
Sept. 7	46.87 ⁶	41.7 ³⁰	19.73 ⁴	67.6 ³¹	23.09 ⁰	55.5 ⁵	56.05 ²	50.1 ²⁶
17	46.81 ¹²	44.7 ²⁸	19.69 ¹⁰	70.7 ²⁷	23.09 ⁴	55.0 ³	56.03 ⁵	52.7 ²⁴
27	46.69 ¹⁶	47.5 ²⁵	19.59 ¹⁴	73.4 ²⁵	23.05 ⁷	54.7 ¹	55.98 ¹⁰	55.1 ²¹
Oct. 7	46.53 ²⁰	50.0 ²¹	19.45 ¹⁷	75.9 ²¹	22.98 ⁹	54.6 ¹	55.88 ¹³	57.2 ¹⁷
17	46.33 ²³	52.1 ¹⁷	19.28 ²¹	78.0 ¹⁸	22.89 ¹¹	54.7 ²	55.75 ¹⁶	58.9 ¹⁴
27	46.10 ²⁵	53.8 ¹³	19.07 ²⁴	79.8 ¹³	22.78 ¹³	54.9 ⁴	55.59 ¹⁷	60.3 ¹⁰
Nov. 6	45.85 ²⁷	55.1 ⁸	18.83 ²⁵	81.1 ⁸	22.65 ¹³	55.3 ⁵	55.42 ¹⁹	61.3 ⁵
16	45.58 ²⁸	55.9 ²	18.58 ²⁶	81.9 ³	22.52 ¹⁴	55.8 ⁶	55.23 ¹⁹	61.8 ¹
26	45.30 ²⁸	56.1 ²	18.32 ²⁶	82.2 ³	22.38 ¹²	56.4 ⁷	55.04 ¹⁹	61.9 ³
Dec. 6	45.02 ²⁶	55.9 ⁸	18.06 ²⁵	81.9 ⁷	22.26 ¹²	57.1 ⁸	54.85 ¹⁹	61.6 ⁸
16	44.76 ²⁴	55.1 ¹³	17.81 ²³	81.2 ¹²	22.14 ¹⁰	57.9 ⁸	54.66 ¹⁸	60.8 ¹²
26	44.52 ²³	53.8 ¹⁸	17.58 ²⁰	80.0 ¹⁷	22.04 ⁹	58.7 ⁸	54.48 ¹⁵	59.6 ¹⁶
36	44.29	52.0	17.38	78.3	21.95	59.5	54.33	58.0
Mittl. Ort	42.25	16.1	15.13	42.2	19.21	82.1	51.77	24.3
	524)		319)		320)		526)	

1902	ζ Pegasi. 3 ^m .3.		η Pegasi. 3 ^m .0.		λ Pegasi. 4 ^m .0.		ι Cephei. 3 ^m .4.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	22 ^h 36 ^m	10° 19'	22 ^h 38 ^m	29° 42'	22 ^h 41 ^m	23° 2'	22 ^h 46 ^m	65° 40'
Jan. 0	34.54 ⁸	19.2 ¹¹	24.60 ¹¹	45.3 ¹⁵	48.75 ⁹	72.2 ¹⁴	11.36 ³⁸	87.9 ¹⁶
10	34.46 ⁷	18.1 ¹²	24.49 ¹⁰	43.8 ¹⁸	48.66 ⁸	70.8 ¹⁶	10.98 ³³	86.3 ²²
20	34.39 ⁴	16.9 ¹²	24.39 ⁷	42.0 ²⁰	48.58 ⁶	69.2 ¹⁷	10.65 ²⁷	84.1 ²⁶
30	34.35 ¹	15.7 ¹¹	24.32 ³	40.0 ²¹	48.52 ³	67.5 ¹⁸	10.38 ²⁰	81.5 ²⁸
Febr. 9	34.34 ²	14.6 ¹¹	24.29 ⁰	37.9 ²⁰	48.49 ⁰	65.7 ¹⁷	10.18 ¹¹	78.7 ³¹
19	34.36 ⁶	13.5 ¹⁰	24.29 ⁵	35.9 ²¹	48.49 ⁴	64.0 ¹⁷	10.07 ²	75.6 ³¹
März 1	34.42 ⁸	12.5 ⁶	24.34 ⁸	33.8 ¹⁷	48.53 ⁸	62.3 ¹⁴	10.05 ⁹	72.5 ³³
11	34.50 ¹¹	11.9 ⁴	24.42 ¹²	32.1 ¹⁵	48.61 ¹²	60.9 ¹¹	10.14 ¹⁸	69.2 ²⁸
21	34.61 ¹⁶	11.5 ¹	24.54 ¹⁷	30.6 ¹¹	48.73 ¹⁵	59.8 ⁸	10.32 ²⁸	66.4 ²⁶
31	34.77 ¹⁹	11.4 ³	24.71 ²⁰	29.5 ⁷	48.88 ²⁰	59.0 ⁴	10.60 ³⁶	63.8 ²¹
April 10	34.96 ²²	11.7 ⁵	24.91 ²⁴	28.8 ³	49.08 ²³	58.6 ⁰	10.96 ⁴⁴	61.7 ¹⁷
20	35.18 ²⁵	12.2 ⁹	25.15 ²⁸	28.5 ²	49.31 ²⁶	58.6 ⁴	11.40 ⁵⁰	60.0 ¹¹
30	35.43 ²⁸	13.1 ¹²	25.43 ³⁰	28.7 ⁶	49.57 ²⁹	59.0 ⁸	11.90 ⁵⁵	58.9 ⁵
Mai 10	35.71 ²⁹	14.3 ¹⁵	25.73 ³²	29.3 ¹¹	49.86 ³⁰	59.8 ¹²	12.45 ⁵⁸	58.4 ⁰
20	36.00 ³⁰	15.8 ¹⁸	26.05 ³³	30.4 ¹⁵	50.16 ³²	61.0 ¹⁶	13.03 ⁶⁰	58.4 ⁷
30	36.30 ³¹	17.6 ¹⁹	26.38 ³⁴	31.9 ¹⁸	50.48 ³²	62.6 ¹⁹	13.63 ⁶⁰	59.1 ¹²
Juni 9	36.61 ³⁰	19.5 ²¹	26.72 ³³	33.7 ²¹	50.80 ³²	64.5 ²¹	14.23 ⁵⁸	60.3 ¹⁷
19	36.91 ²⁹	21.6 ²²	27.05 ³¹	35.8 ²⁴	51.12 ³⁰	66.6 ²³	14.81 ⁵⁴	62.0 ²²
29	37.20 ²⁷	23.8 ²²	27.36 ²⁹	38.2 ²⁶	51.42 ²⁸	68.9 ²⁵	15.35 ⁴⁹	64.2 ²⁶
Juli 9	37.47 ²⁴	26.0 ²¹	27.65 ²⁵	40.8 ²⁷	51.70 ²⁵	71.4 ²⁵	15.84 ⁴³	66.8 ³⁰
19	37.71 ²¹	28.1 ²¹	27.90 ²²	43.5 ²⁸	51.95 ²²	73.9 ²⁶	16.27 ³⁷	69.8 ³²
29	37.92 ¹⁷	30.2 ²⁰	28.12 ¹⁸	46.3 ²⁸	52.17 ¹⁸	76.5 ²⁵	16.64 ²⁸	73.0 ³⁵
Aug. 8	38.09 ¹³	32.2 ¹⁸	28.30 ¹³	49.1 ²⁷	52.35 ¹³	79.0 ²⁴	16.92 ²⁰	76.5 ³⁶
18	38.22 ⁹	34.0 ¹⁶	28.43 ⁸	51.8 ²⁵	52.48 ⁹	81.4 ²²	17.12 ¹²	80.1 ³⁶
28	38.31 ⁴	35.6 ¹⁴	28.51 ⁴	54.3 ²⁴	52.57 ⁵	83.6 ²¹	17.24 ³	83.7 ³⁶
Sept. 7	38.35 ¹	37.0 ¹¹	28.55 ⁰	56.7 ²²	52.62 ⁰	85.7 ¹⁹	17.27 ⁵	87.3 ³⁵
17	38.36 ³	38.1 ⁹	28.55 ⁴	58.9 ²⁰	52.62 ³	87.6 ¹⁶	17.22 ¹³	90.8 ³⁴
27	38.33 ⁷	39.0 ⁷	28.51 ⁸	60.9 ¹⁷	52.59 ⁷	89.2 ¹⁴	17.09 ²¹	94.2 ³¹
Oct. 7	38.26 ⁹	39.7 ⁵	28.43 ¹¹	62.6 ¹³	52.52 ⁹	90.6 ¹⁰	16.88 ²⁷	97.3 ²⁸
17	38.17 ¹¹	40.2 ²	28.32 ¹³	63.9 ¹¹	52.43 ¹²	91.6 ⁸	16.61 ³³	100.1 ²⁴
27	38.06 ¹²	40.4 ⁰	28.19 ¹⁵	65.0 ⁷	52.31 ¹⁴	92.4 ⁵	16.28 ³⁷	102.5 ²⁰
Nov. 6	37.94 ¹³	40.4 ³	28.04 ¹⁶	65.7 ³	52.17 ¹⁴	92.9 ¹	15.91 ⁴¹	104.5 ¹⁵
16	37.81 ¹⁴	40.1 ⁵	27.88 ¹⁶	66.0 ¹	52.03 ¹⁵	93.0 ²	15.50 ⁴⁴	106.0 ⁹
26	37.67 ¹³	39.6 ⁶	27.72 ¹⁷	65.9 ⁴	51.88 ¹⁵	92.8 ⁵	15.06 ⁴⁶	106.9 ³
Dec. 6	37.54 ¹³	39.0 ⁸	27.55 ¹⁵	65.5 ⁸	51.73 ¹⁴	92.3 ⁸	14.60 ⁴⁵	107.2 ³
16	37.41 ¹¹	38.2 ¹⁰	27.40 ¹⁵	64.7 ¹²	51.59 ¹³	91.5 ¹¹	14.15 ⁴³	106.9 ⁸
26	37.30 ⁹	37.2 ¹¹	27.25 ¹³	63.5 ¹⁴	51.46 ¹²	90.4 ¹³	13.72 ⁴¹	106.1 ¹⁴
36	37.21	36.1	27.12	62.1	51.34	89.1	13.31	104.7
Mittl. Ort	34.44	10.3	24.44	30.7	48.58	59.5	11.31	65.1
	321)		322)		323)		325)	

1902	λ Aquarii. 4 ^m .0.		δ Aquarii. 3 ^m .0.		α Pisc. austr. 1 ^m .3.		σ Andromed. 3 ^m .6.	
	AR.	Decl.	AR.	Decl.	AR.	Decl.	AR.	Decl.
	22 ^h 47 ^m	8° 5'	22 ^h 49 ^m	16° 20'	22 ^h 52 ^m	30° 8'	22 ^h 57 ^m	41° 47'
Jan. 0	30.13 ⁸	61.7 ⁵	26.94 ⁹	31.2 ²	13.97 ¹¹	34.7 ³	24.93 ¹⁷	75.0 ¹⁵
10	30.05 ⁷	62.2 ⁴	26.85 ⁷	31.4 ⁰	13.86 ⁸	34.4 ⁶	24.76 ¹⁴	73.5 ¹⁹
20	29.98 ⁴	62.6 ³	26.78 ⁴	31.4 ¹	13.78 ⁵	33.8 ⁹	24.62 ¹¹	71.6 ²²
30	29.94 ¹	62.9 ¹	26.74 ²	31.3 ³	13.73 ³	32.9 ¹¹	24.51 ⁸	69.4 ²⁴
Febr. 9	29.93 ¹	63.0 ¹	26.72 ¹	31.0 ⁶	13.70 ⁰	31.8 ¹⁴	24.43 ⁴	67.0 ²⁴
19	29.94 ⁴	62.9 ²	26.73 ⁴	30.4 ⁸	13.70 ⁴	30.4 ¹⁶	24.39 ⁰	64.6 ²⁵
März 1	29.98 ⁸	62.7 ⁵	26.77 ⁸	29.6 ¹¹	13.74 ⁹	28.8 ¹⁹	24.39 ⁷	62.1 ²⁵
11	30.06 ¹¹	62.2 ⁷	26.85 ¹¹	28.5 ¹²	13.83 ¹¹	26.9 ²⁰	24.46 ¹¹	59.6 ²⁰
21	30.17 ¹⁴	61.5 ¹⁰	26.96 ¹⁵	27.3 ¹³	13.94 ¹⁶	24.9 ²¹	24.57 ¹⁶	57.6 ¹⁸
31	30.31 ¹⁸	60.5 ¹¹	27.11 ¹⁸	26.0 ¹⁶	14.10 ¹⁹	22.8 ²²	24.73 ²¹	55.8 ¹³
April 10	30.49 ²¹	59.4 ¹⁴	27.29 ²¹	24.4 ¹⁷	14.29 ²³	20.6 ²²	24.94 ²⁶	54.5 ⁹
20	30.70 ²⁴	58.0 ¹⁶	27.50 ²⁴	22.7 ¹⁸	14.52 ²⁶	18.4 ²³	25.20 ³⁰	53.6 ⁴
30	30.94 ²⁷	56.4 ¹⁷	27.74 ²⁷	20.9 ²⁰	14.78 ²⁹	16.1 ²²	25.50 ³³	53.2 ⁰
Mai 10	31.21 ²⁹	54.7 ¹⁸	28.01 ³⁰	18.9 ¹⁹	15.07 ³¹	13.9 ²¹	25.83 ³⁵	53.2 ⁶
20	31.50 ³⁰	52.9 ¹⁹	28.31 ³¹	17.0 ²⁰	15.38 ³³	11.8 ²⁰	26.18 ³⁷	53.8 ¹¹
30	31.80 ³¹	51.0 ¹⁹	28.62 ³¹	15.0 ¹⁹	15.71 ³⁴	9.8 ¹⁸	26.55 ³⁸	54.9 ¹⁵
Juni 9	32.11 ³¹	49.1 ¹⁹	28.93 ³²	13.1 ¹⁷	16.05 ³⁴	8.0 ¹⁵	26.93 ³⁷	56.4 ²⁰
19	32.42 ²⁹	47.2 ¹⁸	29.25 ³⁰	11.4 ¹⁶	16.39 ³⁴	6.5 ¹²	27.30 ³⁵	58.4 ²³
29	32.71 ²⁸	45.4 ¹⁷	29.55 ²⁹	9.8 ¹⁴	16.73 ³¹	5.3 ¹⁰	27.65 ³³	60.7 ²⁶
Juli 9	32.99 ²⁶	43.7 ¹⁵	29.84 ²⁶	8.4 ¹²	17.04 ²⁹	4.3 ⁶	27.98 ³⁰	63.3 ²⁸
19	33.25 ²²	42.2 ¹³	30.10 ²³	7.2 ⁹	17.33 ²⁵	3.7 ³	28.28 ²⁶	66.1 ²⁹
29	33.47 ¹⁸	40.9 ¹¹	30.33 ²⁰	6.3 ⁶	17.58 ²²	3.4 ¹	28.54 ²¹	69.0 ³¹
Aug. 8	33.65 ¹⁵	39.8 ⁸	30.53 ¹⁵	5.7 ⁴	17.80 ¹⁷	3.5 ⁴	28.75 ¹⁶	72.1 ³¹
18	33.80 ¹⁰	39.0 ⁵	30.68 ¹¹	5.3 ¹	17.97 ¹²	3.9 ⁷	28.91 ¹¹	75.2 ³¹
28	33.90 ⁶	38.5 ³	30.79 ⁶	5.2 ²	18.09 ⁷	4.6 ¹⁰	29.02 ⁶	78.3 ²⁹
Sept. 7	33.96 ²	38.2 ¹	30.85 ²	5.4 ⁴	18.16 ²	5.6 ¹²	29.08 ²	81.2 ²⁸
17	33.98 ²	38.1 ¹	30.87 ²	5.8 ⁶	18.18 ²	6.8 ¹⁴	29.10 ⁴	84.0 ²⁶
27	33.96 ⁶	38.2 ³	30.85 ⁵	6.4 ⁸	18.16 ⁶	8.2 ¹⁴	29.06 ⁷	86.6 ²³
Oct. 7	33.90 ⁸	38.5 ⁵	30.80 ⁹	7.2 ⁸	18.10 ¹⁰	9.6 ¹⁵	28.99 ¹¹	88.9 ²⁰
17	33.82 ¹⁰	39.0 ⁶	30.71 ¹¹	8.0 ⁹	18.00 ¹³	11.1 ¹⁴	28.88 ¹⁴	90.9 ¹⁶
27	33.72 ¹²	39.6 ⁶	30.60 ¹²	8.9 ⁹	17.87 ¹⁴	12.5 ¹³	28.74 ¹⁷	92.5 ¹³
Nov. 6	33.60 ¹³	40.2 ⁷	30.48 ¹⁴	9.8 ⁹	17.73 ¹⁶	13.8 ¹¹	28.57 ¹⁹	93.8 ⁹
16	33.47 ¹³	40.9 ⁷	30.34 ¹³	10.7 ⁸	17.57 ¹⁶	14.9 ¹⁰	28.38 ²⁰	94.7 ⁴
26	33.34 ¹³	41.6 ⁸	30.21 ¹⁴	11.5 ⁸	17.41 ¹⁶	15.9 ⁷	28.18 ²⁰	95.1 ⁴
Dec. 6	33.21 ¹²	42.4 ⁷	30.07 ¹³	12.3 ⁶	17.25 ¹⁵	16.6 ⁴	27.98 ²⁰	95.0 ⁵
16	33.09 ¹¹	43.1 ⁶	29.94 ¹¹	12.9 ⁴	17.10 ¹⁴	17.0 ¹	27.78 ¹⁹	94.5 ¹⁰
26	32.98 ⁹	43.7 ⁵	29.83 ¹⁰	13.3 ³	16.96 ¹²	17.1 ¹	27.59 ¹⁸	93.5 ¹⁴
36	32.89	44.2	29.73	13.6	16.84	17.0	27.41	92.1
Mittl. Ort	30.09	64.6	26.96	31.5	14.16	30.9	24.60	57.1

326)

618)

619)

327)

1902	β Pegasi. 2.2...2 ^m .7.		α Pegasi. 2 ^m .0.		ε ² Aquarii. 4 ^m .0.		π Cephei. 4 ^m .6.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +
	22 ^h 59 ^m	27° 33'	22 ^h 59 ^m	14° 40'	23 ^h 4 ^m	21° 41'	23 ^h 4 ^m	74° 51'
Jan. 0	1.62 ¹²	17.6 ¹⁴	52.94 ¹⁰	50.6 ¹²	13.33 ¹⁰	77.7 ¹	47.01 ⁶⁹	51.6 ¹³
10	1.50 ¹⁰	16.2 ¹⁶	52.84 ⁸	49.4 ¹³	13.23 ⁹	77.8 ²	46.32 ⁶²	50.3 ¹⁹
20	1.40 ⁸	14.6 ¹⁸	52.76 ⁶	48.1 ¹³	13.14 ⁶	77.6 ⁴	45.70 ⁵²	48.4 ²³
30	1.32	12.8	52.70	46.8	13.08	77.2	45.18	46.1
Febr. 9	1.27 ⁵	10.9 ¹⁹	52.66 ⁴	45.5 ¹³	13.05 ³	76.6 ⁶	44.76 ⁴²	43.4 ²⁷
19	1.25 ²	9.0 ¹⁹	52.65 ¹	44.3 ¹²	13.04 ¹	75.7 ⁹	44.49 ²⁷	40.3 ³¹
März 1	1.27 ²	7.3 ¹⁷	52.67 ²	43.2 ¹¹	13.07 ³	74.6 ¹¹	44.36 ¹³	37.2 ³¹
11	1.33 ⁶	5.5 ¹⁸	52.74 ⁷	42.2 ¹⁰	13.14 ⁷	73.2 ¹⁴	44.40 ⁴	33.7 ³⁵
21	1.43 ¹⁰	4.1 ¹⁴	52.84 ¹⁰	41.5 ⁷	13.23 ⁹	71.7 ¹⁵	44.59 ¹⁹	30.6 ³¹
31	1.57 ¹⁴	3.1 ¹⁰	52.97 ¹³	41.1 ⁴	13.36 ¹³	70.0 ¹⁷	44.93 ³⁴	27.8 ²⁸
April 10	1.76 ¹⁹	2.4 ⁷	53.14 ¹⁷	41.1 ⁰	13.53 ¹⁷	68.1 ¹⁹	45.42 ⁴⁹	25.3 ²⁵
20	1.98 ²²	2.1 ³	53.35 ²¹	41.4 ³	13.73 ²⁰	66.1 ²⁰	46.03 ⁶¹	23.3 ²⁰
30	2.24 ²⁶	2.2 ¹	53.59 ²⁴	42.1 ⁷	13.97 ²⁴	64.0 ²¹	46.75 ⁷²	21.7 ¹⁶
Mai 10	2.53 ²⁹	2.8 ⁶	53.86 ²⁷	43.1 ¹⁰	14.25 ²⁸	61.9 ²¹	47.56 ⁸¹	20.7 ¹⁰
20	2.84 ³¹	3.8 ¹⁰	54.15 ²⁹	44.5 ¹⁴	14.54 ²⁹	59.8 ²¹	48.41 ⁸⁵	20.3 ⁴
30	3.16 ³²	5.2 ¹⁴	54.45 ³⁰	46.1 ¹⁶	14.85 ³¹	57.8 ²⁰	49.30 ⁸⁹	20.5 ²
Juni 9	3.49 ³³	6.9 ¹⁷	54.76 ³¹	47.9 ¹⁸	15.17 ³²	57.8 ¹⁹	49.30 ⁸⁹	20.5 ⁸
19	3.82 ³³	8.9 ²⁰	55.07 ³¹	47.9 ²¹	15.17 ³²	55.9 ¹⁸	50.19 ⁸⁸	21.3 ¹³
29	4.14 ³²	8.9 ²³	55.07 ³⁰	50.0 ²²	15.49 ³²	54.1 ¹⁵	51.07 ⁸³	22.6 ¹⁹
Juli 9	4.44 ³⁰	11.2 ²⁵	55.37 ²⁹	52.2 ²²	15.81 ³⁰	52.6 ¹³	51.90 ⁷⁶	24.5 ²³
19	4.71 ²⁷	13.7 ²⁶	55.66 ²⁶	54.4 ²³	16.11 ²⁸	51.3 ¹⁰	52.66 ⁶⁸	26.8 ²⁷
29	4.94 ²³	16.3 ²⁶	55.92 ²²	56.7 ²²	16.39 ²⁵	50.3 ⁸	53.34 ⁵⁸	29.5 ³¹
Aug. 8	5.14 ¹⁵	18.9 ²⁶	56.14 ¹⁹	58.9 ²²	16.64 ²¹	49.5 ⁴	53.92 ⁴⁷	32.6 ³³
18	5.29 ¹¹	21.5 ²⁶	56.33 ¹⁶	61.1 ²⁰	16.85 ¹⁷	49.1 ⁰	54.39 ³⁴	35.9 ³⁶
28	5.40 ⁷	24.1 ²⁵	56.49 ¹¹	63.1 ¹⁸	17.02 ¹²	49.1 ²	54.73 ²²	39.5 ³⁷
Sept. 7	5.47 ²	26.6 ²³	56.60 ⁶	64.9 ¹⁷	17.14 ⁸	49.3 ⁴	54.95 ⁹	43.2 ³⁷
17	5.49 ²²	28.9 ²²	56.66 ³	66.6 ¹⁴	17.22 ⁴	49.7 ⁸	55.04 ³	46.9 ³⁷
27	5.47 ¹⁹	31.1 ¹⁹	56.69 ¹	68.0 ¹²	17.26 ¹	50.5 ⁹	55.01 ¹⁶	50.6 ³⁶
Oct. 7	5.42 ¹⁶	33.0 ¹⁶	56.68 ⁴	69.2 ⁹	17.25 ⁴	51.4 ¹⁰	54.85 ²⁸	54.2 ³⁴
17	5.34 ¹⁴	34.6 ¹⁴	56.64 ⁷	70.1 ⁷	17.21 ⁸	52.4 ¹¹	54.57 ³⁹	57.6 ³¹
27	5.23 ¹¹	36.0 ¹⁰	56.57 ¹⁰	70.8 ⁵	17.13 ¹⁰	53.5 ¹²	54.18 ⁴⁸	60.7 ²⁸
Nov. 6	5.23 ¹³	37.0 ⁷	56.47 ¹²	71.3 ²	17.03 ¹²	54.7 ¹¹	53.70 ⁵⁸	63.5 ²⁵
16	5.10 ¹⁵	37.7 ⁴	56.35 ¹²	71.5 ¹	16.91 ¹⁴	55.8 ¹¹	53.12 ⁶⁵	66.0 ¹⁹
26	4.95 ¹⁵	38.1 ⁰	56.23 ¹³	71.4 ³	16.77 ¹⁴	56.9 ⁹	52.47 ⁷¹	67.9 ¹⁴
Dec. 6	4.80 ¹⁵	38.1 ³	56.10 ¹³	71.1 ⁵	16.63 ¹⁴	57.8 ⁸	51.76 ⁷⁴	69.3 ⁸
16	4.65 ¹⁵	37.8 ⁶	55.97 ¹³	70.6 ⁷	16.49 ¹⁴	58.6 ⁶	51.02 ⁷⁶	70.1 ²
26	4.50 ¹⁴	37.2 ¹⁰	55.84 ¹²	69.9 ¹⁰	16.35 ¹²	59.2 ⁴	50.26 ⁷⁶	70.3 ⁴
36	4.36 ¹³	36.2 ¹³	55.72 ¹¹	68.9 ¹¹	16.23 ¹¹	59.6 ²	49.50 ⁷³	69.9 ¹⁰
	4.23	34.9	55.61	67.8	16.12	59.8	48.77	68.9
Mittl. Ort	1.31	3.6	52.68	40.6	13.34	75.9	46.75	27.4
	(328)		(329)		(620)		(529)	

1902	Br. 3077. 6 ^m .o.		τ Pegasi. 4 ^m .6.		4 Cassiopej. 5 ^m .8.		ζ Piscium. 5 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	23 ^h 8 ^m	56° 37'	23 ^h 15 ^m	23° 12'	23 ^h 20 ^m	61° 44'	23 ^h 21 ^m	0° 43'
Jan. 0	34.06 ²⁶	58.8 ¹⁵	47.50 ¹²	25.7 ¹²	29.51 ³⁴	62.8 ¹³	54.77 ¹⁰	13.0 ⁸
10	33.80 ²⁴	57.3 ¹⁹	47.38 ¹⁰	24.5 ¹⁴	29.17 ³¹	61.5 ¹⁸	54.67 ⁹	12.2 ⁷
20	33.56 ²⁰	55.4 ²³	47.28 ⁹	23.1 ¹⁶	28.86 ²⁶	59.7 ²²	54.58 ⁷	11.5 ⁷
30	33.36 ¹⁵	53.1 ²⁶	47.19 ⁶	21.5 ¹⁶	28.60 ²¹	57.5 ²⁶	54.51 ⁵	10.8 ⁶
Febr. 9	33.21 ⁹	50.5 ²⁸	47.13 ³	19.9 ¹⁶	28.39 ¹⁵	54.9 ²⁸	54.46 ²	10.2 ⁴
19	33.12 ³	47.7 ²⁸	47.10 ⁰	18.3 ¹⁶	28.24 ⁸	52.1 ³⁰	54.44 ⁰	9.8 ³
März 1	33.09 ⁵	44.9 ³¹	47.10 ⁵	16.7 ¹⁵	28.16 ²	49.1 ³²	54.44 ⁵	9.5 ¹
11	33.14 ¹²	41.8 ²⁷	47.15 ⁸	15.2 ¹²	28.18 ¹⁰	45.9 ²⁸	54.49 ⁷	9.4 ²
21	33.26 ¹⁹	39.1 ²³	47.23 ¹²	14.0 ⁸	28.28 ¹⁸	43.1 ²⁶	54.56 ¹¹	9.6 ⁴
31	33.45 ²⁶	36.8 ²⁰	47.35 ¹⁶	13.2 ⁵	28.46 ²⁶	40.5 ²²	54.67 ¹⁴	10.0 ⁷
April 10	33.71 ³²	34.8 ¹⁶	47.51 ²¹	12.7 ²	28.72 ³⁴	38.3 ¹⁹	54.81 ¹⁸	10.7 ¹⁰
20	34.03 ³⁸	33.2 ¹⁰	47.72 ²⁴	12.5 ²	29.06 ⁴⁰	36.4 ¹³	54.99 ²³	11.7 ¹³
30	34.41 ⁴²	32.2 ⁵	47.96 ²⁷	12.7 ⁷	29.46 ⁴⁶	35.1 ⁸	55.22 ²⁵	13.0 ¹⁴
Mai 10	34.83 ⁴⁶	31.7 ¹	48.23 ²⁹	13.4 ¹⁰	29.92 ⁵⁰	34.3 ²	55.47 ²⁷	14.4 ¹⁶
20	35.29 ⁴⁸	31.8 ⁶	48.52 ³¹	14.4 ¹⁴	30.42 ⁵³	34.1 ³	55.74 ²⁹	16.0 ¹⁹
30	35.77 ⁴⁸	32.4 ¹¹	48.83 ³³	15.8 ¹⁷	30.95 ⁵³	34.4 ⁹	56.03 ³¹	17.9 ¹⁹
Juni 9	36.25 ⁴⁷	33.5 ¹⁶	49.16 ³²	17.5 ¹⁹	31.48 ⁵³	35.3 ¹⁴	56.34 ³⁰	19.8 ²⁰
19	36.72 ⁴⁶	35.1 ²¹	49.48 ³²	19.4 ²²	32.01 ⁵²	36.7 ¹⁹	56.64 ³¹	21.8 ²⁰
29	37.18 ⁴³	37.2 ²⁵	49.80 ³⁰	21.6 ²³	32.53 ⁴⁸	38.6 ²³	56.95 ²⁹	23.8 ¹⁹
Juli 9	37.61 ³⁸	39.7 ²⁸	50.10 ²⁷	23.9 ²⁵	33.01 ⁴⁴	40.9 ²⁷	57.24 ²⁷	25.7 ¹⁹
19	37.99 ³⁴	42.5 ³¹	50.37 ²⁵	26.4 ²⁵	33.45 ³⁹	43.6 ³⁰	57.51 ²⁴	27.6 ¹⁷
29	38.33 ²⁸	45.6 ³³	50.62 ²¹	28.9 ²⁴	33.84 ³²	46.6 ³³	57.75 ²¹	29.3 ¹⁵
Aug. 8	38.61 ²²	48.9 ³⁴	50.83 ¹⁶	31.3 ²⁴	34.16 ²⁵	49.9 ³⁴	57.96 ¹⁷	30.8 ¹⁴
18	38.83 ¹⁵	52.3 ³⁵	50.99 ¹³	33.7 ²²	34.41 ¹⁹	53.3 ³⁵	58.13 ¹³	32.2 ¹¹
28	38.98 ⁹	55.8 ³⁴	51.12 ⁸	35.9 ²¹	34.60 ¹¹	56.8 ³⁵	58.26 ⁹	33.3 ⁸
Sept. 7	39.07 ²	59.2 ³³	51.20 ⁵	38.0 ²⁰	34.71 ⁴	60.3 ³⁵	58.35 ⁵	34.1 ⁶
17	39.09 ³	62.5 ³²	51.25 ⁰	40.0 ¹⁷	34.75 ³	63.8 ³⁴	58.40 ²	34.7 ⁴
27	39.06 ⁹	65.7 ³⁰	51.25 ³	41.7 ¹⁴	34.72 ⁹	67.2 ³¹	58.42 ²	35.1 ²
Oct. 7	38.97 ¹⁵	68.7 ²⁷	51.22 ⁶	43.1 ¹²	34.63 ¹⁶	70.3 ²⁹	58.40 ⁵	35.3 ¹
17	38.82 ¹⁹	71.4 ²³	51.16 ⁹	44.3 ⁹	34.47 ²¹	73.2 ²⁶	58.35 ⁸	35.2 ²
27	38.63 ²²	73.7 ¹⁹	51.07 ¹¹	45.2 ⁶	34.26 ²⁶	75.8 ²²	58.27 ¹⁰	35.0 ³
Nov. 6	38.41 ²⁶	75.6 ¹⁴	50.96 ¹³	45.8 ³	34.00 ³¹	78.0 ¹⁷	58.17 ¹⁰	34.7 ⁵
16	38.15 ²⁸	77.0 ¹⁰	50.83 ¹³	46.1 ⁰	33.69 ³³	79.7 ¹²	58.07 ¹²	34.2 ⁶
26	37.87 ³⁰	78.0 ⁴	50.70 ¹⁴	46.1 ⁴	33.36 ³⁵	80.9 ⁷	57.95 ¹²	33.6 ⁷
Dec. 6	37.57 ³⁰	78.4 ²	50.56 ¹⁴	45.7 ⁶	33.01 ³⁶	81.6 ¹	57.83 ¹²	32.9 ⁷
16	37.27 ²⁹	78.2 ⁶	50.42 ¹⁴	45.1 ⁸	32.65 ³⁷	81.7 ⁴	57.71 ¹²	32.2 ⁸
26	36.98 ²⁸	77.6 ¹²	50.28 ¹³	44.3 ¹¹	32.28 ³⁵	81.3 ¹¹	57.59 ¹⁰	31.4 ⁸
36	36.70	76.4	50.15	43.2	31.93	80.2	57.49	30.6
Mittl. Ort	33.61	37.4	47.09	13.3	28.88	40.5	54.47	8.2
	530)		531)		533)		534)	

1902	70 Pegasi. 5 ^m .O.		† Andromedae. 4 ^m .O.		† Piscium. 4 ^m .3.	
	AR.	Decl. +	AR.	Decl. +	AR.	Decl. +
	23 ^h 24 ^m	12° 13'	23 ^h 33 ^m	42° 43'	23 ^h 34 ^m	5° 5'
Jan. 0	12.20 ⁵ _{II}	19.5 ⁵ ₁₀	20.32 ⁵ ₁₈	49.1 ⁵ ₁₃	54.93 ⁵ _{II}	47.7 ⁵ ₈
10	12.09 ⁵ ₁₀	18.5 ⁵ ₁₁	20.14 ⁵ ₁₇	47.8 ⁵ ₁₆	54.82 ⁵ ₉	46.9 ⁵ ₉
20	11.99 ⁵ ₇	17.4 ⁵ ₁₂	19.97 ⁵ ₁₅	46.2 ⁵ ₁₉	54.73 ⁵ ₈	46.0 ⁵ ₈
30	11.92 ⁵ ₆	16.2 ⁵ ₁₁	19.82 ⁵ ₁₂	44.3 ⁵ ₂₂	54.65 ⁵ ₆	45.2 ⁵ ₈
Febr. 9	11.86 ⁵ ₃	15.1 ⁵ ₁₀	19.70 ⁵ ₉	42.1 ⁵ ₂₃	54.59 ⁵ ₄	44.4 ⁵ ₇
19	11.83 ⁵ ₀	14.1 ⁵ ₁₀	19.61 ⁵ ₄	39.8 ⁵ ₂₃	54.55 ⁵ _I	43.7 ⁵ ₅
März 1	11.83 ⁵ ₄	13.1 ⁵ ₇	19.57 ⁵ _I	37.5 ⁵ ₂₃	54.54 ⁵ ₂	43.2 ⁵ ₄
11	11.87 ⁵ ₈	12.4 ⁵ ₆	19.58 ⁵ ₇	35.2 ⁵ ₂₄	54.56 ⁵ ₇	42.8 ⁵ _I
21	11.95 ⁵ ₁₀	11.8 ⁵ ₃	19.65 ⁵ ₁₂	32.8 ⁵ ₁₉	54.63 ⁵ ₁₀	42.7 ⁵ ₂
31	12.05 ⁵ ₁₄	11.5 ⁵ _I	19.77 ⁵ ₁₇	30.9 ⁵ ₁₅	54.73 ⁵ ₁₄	42.9 ⁵ ₄
April 10	12.19 ⁵ ₁₉	11.6 ⁵ ₄	19.94 ⁵ ₂₃	29.4 ⁵ ₁₂	54.87 ⁵ ₁₇	43.3 ⁵ ₇
20	12.38 ⁵ ₂₂	12.0 ⁵ ₇	20.17 ⁵ ₂₇	28.2 ⁵ ₇	55.04 ⁵ ₂₁	44.0 ⁵ ₁₀
30	12.60 ⁵ ₂₅	12.7 ⁵ ₁₀	20.44 ⁵ ₃₁	27.5 ⁵ ₃	55.25 ⁵ ₂₄	45.0 ⁵ ₁₃
Mai 10	12.85 ⁵ ₂₈	13.7 ⁵ ₁₃	20.75 ⁵ ₃₄	27.2 ⁵ ₃	55.49 ⁵ ₂₇	46.3 ⁵ ₁₅
20	13.13 ⁵ ₃₀	15.0 ⁵ ₁₆	21.09 ⁵ ₃₇	27.5 ⁵ ₇	55.76 ⁵ ₂₉	47.8 ⁵ ₁₇
30	13.43 ⁵ ₃₁	16.6 ⁵ ₁₈	21.46 ⁵ ₃₈	28.2 ⁵ ₁₂	56.05 ⁵ ₃₀	49.5 ⁵ ₁₈
Juni 9	13.74 ⁵ ₃₁	18.4 ⁵ ₂₀	21.84 ⁵ ₃₈	29.4 ⁵ ₁₆	56.35 ⁵ ₃₁	51.3 ⁵ ₂₀
19	14.05 ⁵ ₃₁	20.4 ⁵ ₂₁	22.22 ⁵ ₃₈	31.0 ⁵ ₂₀	56.66 ⁵ ₃₁	53.3 ⁵ ₂₁
29	14.36 ⁵ ₂₉	22.5 ⁵ ₂₂	22.60 ⁵ ₃₆	33.0 ⁵ ₂₃	56.97 ⁵ ₂₉	55.4 ⁵ ₂₀
Juli 9	14.65 ⁵ ₂₇	24.7 ⁵ ₂₂	22.96 ⁵ ₃₃	35.3 ⁵ ₂₆	57.26 ⁵ ₂₈	57.4 ⁵ ₁₉
19	14.92 ⁵ ₂₄	26.9 ⁵ ₂₁	23.29 ⁵ ₃₀	37.9 ⁵ ₂₈	57.54 ⁵ ₂₅	59.3 ⁵ ₁₉
29	15.16 ⁵ ₂₁	29.0 ⁵ ₂₀	23.59 ⁵ ₂₅	40.7 ⁵ ₂₉	57.79 ⁵ ₂₂	61.2 ⁵ ₁₇
Aug. 8	15.37 ⁵ ₁₈	31.0 ⁵ ₁₉	23.84 ⁵ ₂₁	43.6 ⁵ ₃₀	58.01 ⁵ ₁₈	62.9 ⁵ ₁₆
18	15.55 ⁵ ₁₃	32.9 ⁵ ₁₇	24.05 ⁵ ₁₆	46.6 ⁵ ₃₀	58.19 ⁵ ₁₄	64.5 ⁵ ₁₃
28	15.68 ⁵ ₉	34.6 ⁵ ₁₅	24.21 ⁵ ₁₂	49.6 ⁵ ₂₉	58.33 ⁵ ₁₁	65.8 ⁵ ₁₁
Sept. 7	15.77 ⁵ ₆	36.1 ⁵ ₁₃	24.33 ⁵ ₆	52.5 ⁵ ₂₉	58.44 ⁵ ₇	66.9 ⁵ ₉
17	15.83 ⁵ _I	37.4 ⁵ ₁₁	24.39 ⁵ ₂	55.4 ⁵ ₂₇	58.51 ⁵ ₂	67.8 ⁵ ₆
27	15.84 ⁵ ₂	38.5 ⁵ ₈	24.41 ⁵ ₃	58.1 ⁵ ₂₅	58.53 ⁵ _I	68.4 ⁵ ₄
Oct. 7	15.82 ⁵ ₄	39.3 ⁵ ₆	24.38 ⁵ ₇	60.6 ⁵ ₂₂	58.52 ⁵ ₄	68.8 ⁵ ₂
17	15.78 ⁵ ₈	39.9 ⁵ ₄	24.31 ⁵ ₁₀	62.8 ⁵ ₁₉	58.48 ⁵ ₆	69.0 ⁵ ₀
27	15.70 ⁵ ₉	40.3 ⁵ _I	24.21 ⁵ ₁₃	64.7 ⁵ ₁₅	58.42 ⁵ ₈	69.0 ⁵ _I
Nov. 6	15.61 ⁵ ₁₁	40.4 ⁵ _I	24.08 ⁵ ₁₆	66.2 ⁵ ₁₁	58.34 ⁵ ₁₀	68.9 ⁵ ₄
16	15.50 ⁵ ₁₂	40.3 ⁵ ₃	23.92 ⁵ ₁₈	67.3 ⁵ ₈	58.24 ⁵ ₁₁	68.5 ⁵ ₅
26	15.38 ⁵ ₁₃	40.0 ⁵ ₅	23.74 ⁵ ₁₉	68.1 ⁵ ₃	58.13 ⁵ ₁₂	68.0 ⁵ ₆
Dec. 6	15.25 ⁵ ₁₂	39.5 ⁵ ₆	23.55 ⁵ ₁₉	68.4 ⁵ _I	58.01 ⁵ ₁₂	67.4 ⁵ ₇
16	15.13 ⁵ ₁₂	38.9 ⁵ ₈	23.36 ⁵ ₂₀	68.3 ⁵ ₆	57.89 ⁵ ₁₁	66.7 ⁵ ₈
26	15.01 ⁵ ₁₂	38.1 ⁵ ₁₀	23.16 ⁵ ₂₀	67.7 ⁵ ₁₁	57.78 ⁵ ₁₂	65.9 ⁵ ₉
36	14.89	37.1	22.96	66.6	57.66	65.0
Mittl. Ort	11.80	10.9	19.66	31.2	54.52	41.9

535)

332)

333)

1902	γ Cephei. 3 ^m .3.		ω ² Aquarii. 4 ^m .6.		41 H. Cephei. 5 ^m .6.	
	AR.	Decl. +	AR.	Decl. -	AR.	Decl. +
	23 ^h 35 ^m	77° 4'	23 ^h 37 ^m	15° 4'	23 ^h 43 ^m	67° 15'
Jan. 0	20.43 ⁵ 86	91.0 ⁹	38.67 ¹¹	73.7 ³	14.13 ⁴⁵	67.1 ⁹
10	19.57 ⁸⁰	90.1 ¹⁴	38.56 ¹⁰	74.0 ²	13.68 ⁴³	66.2 ¹⁵
20	18.77 ⁷¹	88.7 ²⁰	38.46 ⁸	74.2 ⁰	13.25 ³⁸	64.7 ²⁰
30	18.06 ⁵⁹	86.7 ²⁵	38.38 ⁶	74.2 ²	12.87 ³³	62.7 ²⁴
Febr. 9	17.47 ⁴⁵	84.2 ²⁸	38.32 ⁴	74.0 ⁴	12.54 ²⁵	60.3 ²⁷
19	17.02 ²⁸	81.4 ³⁰	38.28 ¹	73.6 ⁷	12.29 ¹⁶	57.6 ²⁹
März 1	16.74 ¹⁰	78.4 ³²	38.27 ²	72.9 ⁹	12.13 ⁶	54.7 ³⁰
11	16.64 [—]	75.2 ³⁴	38.29 ⁶	72.0 ¹³	12.07 ⁶	51.7 ³³
21	¹⁴ 16.73 ⁹	71.8 ²⁹	¹⁴ 38.35 ¹⁰	70.7 ¹³	¹⁶ 12.13 ¹⁶	48.4 ²⁸
31	16.99 ⁴⁵	68.9 ²⁷	38.45 ¹³	69.4 ¹⁶	12.29 ²⁶	45.6 ²⁵
April 10	17.44 ⁶¹	66.2 ²⁴	38.58 ¹⁷	67.8 ¹⁷	12.55 ³⁶	43.1 ²²
20	18.05 ⁷⁴	63.8 ¹⁹	38.75 ²¹	66.1 ¹⁹	12.91 ⁴⁵	40.9 ¹⁷
30	18.79 ⁸⁷	61.9 ¹⁴	38.96 ²⁴	64.2 ²¹	13.36 ⁵²	39.2 ¹²
Mai 10	19.66 ⁹⁵	60.5 ⁸	39.20 ²⁶	62.1 ²¹	13.88 ⁵⁸	38.0 ⁷
20	20.61 ¹⁰²	59.7 ³	39.46 ²⁹	60.0 ²⁰	14.46 ⁶¹	37.3 ¹
30	21.63 ¹⁰⁴	59.4 ³	39.75 ³¹	58.0 ²¹	15.07 ⁶⁴	37.2 ⁵
Juni 9	22.67 ¹⁰³	59.7 ⁹	40.06 ³¹	55.9 ²⁰	15.71 ⁶⁵	37.7 ¹⁰
19	23.70 ¹⁰⁰	60.6 ¹⁵	40.37 ³²	53.9 ¹⁸	16.36 ⁶³	38.7 ¹⁵
29	24.70 ⁹⁵	62.1 ¹⁹	40.69 ³⁰	52.1 ¹⁶	16.99 ⁶⁰	40.2 ²⁰
Juli 9	25.65 ⁸⁷	64.0 ²⁴	40.99 ²⁹	50.5 ¹⁴	17.59 ⁵⁵	42.2 ²⁴
19	26.52 ⁷⁷	66.4 ²⁸	41.28 ²⁶	49.1 ¹²	18.14 ⁵⁰	44.6 ²⁸
29	27.29 ⁶⁵	69.2 ³¹	41.54 ²³	47.9 ⁸	18.64 ⁴³	47.4 ³¹
Aug. 8	27.94 ⁵²	72.3 ³⁴	41.77 ¹⁹	47.1 ⁶	19.07 ³⁵	50.5 ³³
18	28.46 ³⁹	75.7 ³⁵	41.96 ¹⁵	46.5 ²	19.42 ²⁸	53.8 ³⁵
28	28.85 ²⁴	79.2 ³⁷	42.11 ¹¹	46.3 ⁰	19.70 ¹⁸	57.3 ³⁶
Sept. 7	29.09 ¹⁰	82.9 ³⁸	42.22 ⁷	46.3 ⁴	19.88 ¹⁰	60.9 ³⁶
17	29.19 [—]	86.7 ³⁷	42.29 ³	46.7 ⁵	19.98 ²	64.5 ³⁵
27	29.15 ⁴	90.4 ³⁶	42.32 ¹	47.2 ⁸	20.00 ⁷	68.0 ³⁴
Oct. 7	28.95 ³³	94.0 ³³	42.31 ⁴	48.0 ⁹	19.93 ¹⁴	71.4 ³²
17	28.62 ⁴⁵	97.3 ³¹	42.27 ⁷	48.9 ¹⁰	19.79 ²²	74.6 ²⁹
27	28.17 ⁵⁷	100.4 ²⁸	42.20 ⁹	49.9 ¹⁰	19.57 ²⁹	77.5 ²⁶
Nov. 6	27.60 ⁶⁸	103.2 ²⁴	42.11 ¹¹	50.9 ¹¹	19.28 ³⁴	80.1 ²¹
16	26.92 ⁷⁷	105.6 ¹⁸	42.00 ¹²	52.0 ¹⁰	18.94 ³⁹	82.2 ¹⁷
26	26.15 ⁸³	107.4 ¹³	41.88 ¹²	53.0 ⁹	18.55 ⁴⁴	83.9 ¹¹
Dec. 6	25.32 ⁸⁸	108.7 ⁷	41.76 ¹³	53.9 ⁸	18.11 ⁴⁵	85.0 ⁵
16	24.44 ⁸⁹	109.4 ⁰	41.63 ¹²	54.7 ⁶	17.66 ⁴⁷	85.5 ⁰
26	23.55 ⁸⁸	109.4 ⁵	41.51 ¹²	55.3 ⁵	17.19 ⁴⁷	85.5 ⁶
36	22.67	108.9	41.39	55.8	16.72	84.9
Mittl. Ort	19.23	66.7	38.43	72.6	13.05	44.1

1902	Lac. ♀ Sculptoris. 4 ^m .4.		φ Pegasi. 5 ^m .6.		ω Piscium. 4 ^m .0.	
	AR.	Decl. —	AR.	Decl. +	AR.	Decl. +
	23 ^h 43 ^m	28° 39'	23 ^h 47 ^m	18° 34'	23 ^h 54 ^m	6° 19'
Jan. 0	49.34 ¹⁴	85.8 ⁰	30.60 ¹²	43.3 ¹⁰	17.20 ¹¹	20.5 ⁸
10	49.20 ¹²	85.8 ³	30.48 ¹¹	42.3 ¹²	17.09 ¹¹	19.7 ⁹
20	49.08 ¹⁰	85.5 ⁶	30.37 ¹⁰	41.1 ¹³	16.98 ⁹	18.8 ⁸
30	48.98 ⁸	84.9 ⁹	30.27 ⁸	39.8 ¹³	16.89 ⁸	18.0 ⁸
Febr. 9	48.90 ⁵	84.0 ¹²	30.19 ⁶	38.5 ¹³	16.81 ⁵	17.2 ⁷
19	48.85 ²	82.8 ¹⁴	30.13 ³	37.2 ¹²	16.76 ³	16.5 ⁶
März 1	48.83 ¹	81.4 ¹⁷	30.10 ¹	36.0 ¹¹	16.73 ⁰	15.9 ⁴
11	48.84 ⁵	79.7 ²¹	30.11 ⁵	34.9 ¹⁰	16.73 ⁴	15.5 ²
21	48.89 ⁹	77.6 ²¹	30.16 ⁹	33.9 ⁷	16.77 ⁸	15.3 ¹
31	48.98 ¹⁴	75.5 ²³	30.25 ¹²	33.2 ³	16.85 ¹²	15.4 ⁴
April 10	49.12 ¹⁷	73.2 ²⁴	30.37 ¹⁷	32.9 ⁰	16.97 ¹⁶	15.8 ⁶
20	49.29 ²¹	70.8 ²⁴	30.54 ²¹	32.9 ³	17.13 ¹⁹	16.4 ⁹
30	49.50 ²⁵	68.4 ²⁴	30.75 ²⁵	33.2 ⁷	17.32 ²³	17.3 ¹²
Mai 10	49.75 ²⁸	66.0 ²⁴	31.00 ²⁷	33.9 ¹⁰	17.55 ²⁶	18.5 ¹⁴
20	50.03 ³⁰	63.6 ²³	31.27 ³⁰	34.9 ¹³	17.81 ²⁸	19.9 ¹⁷
30	50.33 ³³	61.3 ²¹	31.57 ³¹	36.2 ¹⁶	18.09 ³⁰	21.6 ¹⁸
Juni 9	50.66 ³³	59.2 ¹⁹	31.88 ³²	37.8 ¹⁹	18.39 ³¹	23.4 ¹⁹
19	50.99 ³⁴	57.3 ¹⁷	32.20 ³²	39.7 ²⁰	18.70 ³¹	25.3 ²⁰
29	51.33 ³³	55.6 ¹³	32.52 ³⁰	41.7 ²²	19.01 ³⁰	27.3 ²¹
Juli 9	51.66 ³¹	54.3 ¹⁰	32.82 ²⁹	43.9 ²²	19.31 ²⁸	29.4 ²⁰
19	51.97 ²⁸	53.3 ⁷	33.11 ²⁷	46.1 ²³	19.59 ²⁶	31.4 ¹⁹
29	52.25 ²⁵	52.6 ²	33.38 ²³	48.4 ²²	19.85 ²⁴	33.3 ¹⁸
Aug. 8	52.50 ²¹	52.4 ¹	33.61 ¹⁹	50.6 ²¹	20.09 ²⁰	35.1 ¹⁶
18	52.71 ¹⁷	52.5 ⁵	33.80 ¹⁶	52.7 ²⁰	20.29 ¹⁶	36.7 ¹⁴
28	52.88 ¹³	53.0 ⁸	33.96 ¹¹	54.7 ¹⁹	20.45 ¹²	38.1 ¹¹
Sept. 7	53.01 ⁸	53.8 ¹¹	34.07 ⁸	56.6 ¹⁶	20.57 ⁸	39.2 ¹⁰
17	53.09 ³	54.9 ¹³	34.15 ⁴	58.2 ¹⁵	20.65 ⁵	40.2 ⁷
27	53.12 ⁰	56.2 ¹⁵	34.19 ¹	59.7 ¹²	20.70 ¹	40.9 ⁵
Oct. 7	53.12 ⁵	57.7 ¹⁶	34.20 ³	60.9 ¹⁰	20.71 ²	41.4 ³
17	53.07 ⁸	59.3 ¹⁶	34.17 ⁶	61.9 ⁷	20.69 ⁴	41.7 ⁰
27	52.99 ¹⁰	60.9 ¹⁶	34.11 ⁸	62.6 ⁵	20.65 ⁷	41.7 ¹
Nov. 6	52.89 ¹³	62.5 ¹⁴	34.03 ⁹	63.1 ²	20.58 ⁹	41.6 ³
16	52.76 ¹⁴	63.9 ¹³	33.94 ¹²	63.3 ⁰	20.49 ¹⁰	41.3 ⁴
26	52.62 ¹⁵	65.2 ¹⁰	33.82 ¹²	63.3 ³	20.39 ¹¹	40.9 ⁵
Dec. 6	52.47 ¹⁵	66.2 ⁸	33.70 ¹³	63.0 ⁵	20.28 ¹²	40.4 ⁷
16	52.32 ¹⁵	67.0 ⁵	33.57 ¹³	62.5 ⁷	20.16 ¹²	39.7 ⁸
26	52.17 ¹⁴	67.5 ²	33.44 ¹³	61.8 ¹⁰	20.04 ¹²	38.9 ⁸
36	52.03	67.7	33.31	60.8	19.92	38.1
Mittl. Ort	49.22	80.3	30.01	33.1	16.67	14.8

(622)

(538)

(336)

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für die 172 Sterne des Jahrbuchsverzeichnisses, von denen nur mittl. Oerter gegeben sind.

Nr. des Fund.-Knt.	log. <i>a</i>	log. <i>b</i>	log. <i>c</i>	log. <i>d</i>	log. <i>a'</i>	log. <i>b'</i>	log. <i>c'</i>	log. <i>d'</i>
337	0.4919	8.8318	8.9783	7.3364	1.3020	8.3579 _n	9.4589	9.8533
338	0.5224	9.4400	9.4523	8.1198	1.3017	8.6670 _n	8.7544	9.9872
5	0.5286	9.1023	9.1548	8.2348	1.2990	9.0769 _n	8.9793	9.9444
8	0.5023	8.5591	8.8766	8.0429	1.2975	9.1617 _n	9.4919	9.6779
12	0.5394	9.0086	9.0835	8.3636	1.2944	9.2723 _n	8.8856	9.9173
342	0.4919	7.9084	8.8193	8.1038	1.2942	9.2766 _n	9.6099	9.0812
343	0.5561	9.1220	9.1693	8.4657	1.2938	9.2880 _n	8.2572	9.9443
345	0.6981	9.5244	9.5322	8.9884	1.2851	9.4391 _n	9.2749 _n	9.9752
541	0.4777	8.0834 _n	8.8146	8.2695	1.2851	9.4380 _n	9.6786	9.2518 _n
17	0.5171	8.5594	8.8661	8.3395	1.2838	9.4550 _n	9.3740	9.6749
346	0.6201	9.1829	9.2169	8.7720	1.2758	9.5288 _n	9.1682 _n	9.9397
349	0.4942	7.7256	8.7860	8.4363	1.2626	9.6107 _n	9.5985	8.9000
28	0.5158	8.3060	8.7975	8.5054	1.2519	9.6576 _n	9.4217	9.4582
351	0.5944	8.8390	8.9509	8.7428	1.2316	9.7214 _n	9.1193 _n	9.8176
352	0.5504	8.5672	8.8265	8.6369	1.2264	9.7346 _n	8.8025	9.6649
354	0.5226	8.2946	8.7722	8.5875	1.2249	9.7381 _n	9.3558	9.4452
36	0.6890	9.1073	9.1434	8.9926	1.2142	9.7612 _n	9.5578 _n	9.8760
356	0.7075	9.0946	9.1293	9.0392	1.1921	9.7998 _n	9.6186 _n	9.8552
357	0.5454	8.4244	8.7630	8.6780	1.1900	9.8028 _n	8.9747	9.5492
41	0.4934	7.4039	8.7115	8.6284	1.1892	9.8040 _n	9.6042	8.5795
43	0.6380	8.8651	8.9492	8.8866	1.1807	9.8159 _n	9.4677 _n	9.7945
51	0.6211	8.7341	8.8548	8.8623	1.1478	9.8532 _n	9.4099 _n	9.7250
54	0.5110	7.8462	8.6336	8.7170	1.1060	9.8872 _n	9.4802	9.0165
362	0.6244	8.6639	8.7952	8.8855	1.1018	9.8900 _n	9.4495 _n	9.6684
363	0.7135	8.8902	8.9407	9.0701	1.0774	9.9047 _n	9.7136 _n	9.7248
58	0.5743	8.3828	8.6589	8.8063	1.0656	9.9109 _n	8.8021 _n	9.4874
550	0.4592	7.8369 _n	8.5932	8.7421	1.0646	9.9114 _n	9.7559	9.0062 _n
60	0.5508	8.2296	8.6236	8.7746	1.0633	9.9121 _n	8.8276	9.3671
62	0.5514	8.2169	8.6118	8.7801	1.0516	9.9177 _n	8.8046	9.3545
367	0.5899	8.3076	8.5564	8.8589	0.9515	9.9518 _n	9.1659 _n	9.4006
70	0.5318	7.9124	8.4885	8.7918	0.9509	9.9520 _n	9.2568	9.0726
368	0.6754	8.5660	8.6597	9.0125	0.9103	9.9610 _n	9.6810 _n	9.5145
75	0.4767	7.1330 _n	8.3556	8.7981	0.8331	9.9734 _n	9.6896	8.3083 _n
77	0.5043	7.3041	8.3274	8.8028	0.8037	9.9770 _n	9.5340	8.4782
82	0.6219	8.2048	8.3885	8.9283	0.7450	9.9826 _n	9.4797 _n	9.2592
85	0.4579	7.3978 _n	8.2093	8.8163	0.6824	9.9871 _n	9.7623	8.5687 _n
88	0.4644	7.2202 _n	8.1374	8.8178	0.6124	9.9907 _n	9.7396	8.3931 _n
89	0.4794	6.7063 _n	8.0688	8.8175	0.5467	9.9932 _n	9.6777	7.8819 _n
555	0.4100	7.5982 _n	8.0471	8.8479	0.4959	9.9946 _n	9.8790	8.7449 _n
376	0.5176	7.1676	7.9535	8.8259	0.4258	9.9961 _n	9.4244	8.3378
94	0.4693	6.9129 _n	7.9349	8.8223	0.4112	9.9964 _n	9.7211	8.0870 _n
95	0.4692	6.9134 _n	7.9333	8.8223	0.4096	9.9964 _n	9.7215	8.0877 _n
99	0.4787	6.5472 _n	7.8812	8.8215	0.3589	9.9972 _n	9.6807	7.7228 _n

für die 172 Sterne des Jahrbuchsverzeichnisses, von denen nur mittl. Oerter gegeben sind.

Nr. des Fund.-Kat.	log. a	log. b	log. c	log. d	log. a'	log. b'	log. c'	log. d'
557	0.4017	7.3727 _n	7.7903	8.8566	0.2343	9.9984 _n	9.8931	8.5146 _n
378	0.5438	7.2290	7.7463	8.8436	0.2035	9.9986 _n	9.0428	8.3840
101	0.6188	7.5590	7.7584	8.9332	0.1265	9.9990 _n	9.4668 _n	8.6243
559	0.4088	7.1559 _n	7.6038	8.8528	0.0525	9.9993 _n	9.8815	8.3026 _n
560	0.4370	6.7728 _n	7.3835	8.8371	9.8483	9.9997 _n	9.8232	7.9355 _n
380	0.5011	4.6335	5.7782	8.8251	8.2558	0.0000 _n	9.5564	5.8261
381	0.7809	7.2847 _n	7.3245 _n	9.2101	9.4155 _n	0.0000 _n	9.8653 _n	8.0744 _n
384	0.7242	7.7262 _n	7.7929 _n	9.1122	9.9824 _n	9.9995 _n	9.8018 _n	8.6134 _n
390	0.6365	8.0400 _n	8.2008 _n	8.9581	0.5383 _n	9.9935 _n	9.5640 _n	9.0754 _n
391	0.8125	8.5119 _n	8.5418 _n	9.2619	0.5743 _n	9.9923 _n	9.8817 _n	9.2423 _n
393	0.9442	8.7617 _n	8.7728 _n	9.4665	0.5998 _n	9.9913 _n	9.9338 _n	9.2865 _n
396	0.6213	8.2494 _n	8.4319 _n	8.9252	0.7876 _n	9.9787 _n	9.4745 _n	9.3029 _n
402	0.6423	8.5222 _n	8.6524 _n	8.9472	0.9576 _n	9.9503 _n	9.5677 _n	9.5253 _n
403	0.7127	8.7493 _n	8.8092 _n	9.0775	0.9785 _n	9.9446 _n	9.7433 _n	9.6164 _n
410	0.8312	9.1472 _n	9.1644 _n	9.2840	1.0837 _n	9.9012 _n	9.8100 _n	9.7643 _n
411	0.6506	8.7371 _n	8.8344 _n	8.9415	1.0916 _n	9.8965 _n	9.5670 _n	9.6921 _n
128	0.5043	7.7106 _n	8.6386 _n	8.7087	1.1138 _n	9.8817 _n	9.5326	8.8836 _n
412	0.5644	8.4279 _n	8.7167 _n	8.7612	1.1282 _n	9.8706 _n	7.9897 _n	9.5373 _n
413	0.7385	9.0550 _n	9.0878 _n	9.1116	1.1394 _n	9.8611 _n	9.7084 _n	9.8044 _n
414	0.6459	8.8168 _n	8.9052 _n	8.9171	1.1456 _n	9.8554 _n	9.5237 _n	9.7550 _n
416	0.5959	8.6661 _n	8.8273 _n	8.7992	1.1652 _n	9.8350 _n	9.1981 _n	9.7018 _n
135	0.5740	8.5768 _n	8.7952 _n	8.7467	1.1745 _n	9.8239 _n	8.7617 _n	9.6540 _n
420	0.7178	9.1604 _n	9.1883 _n	9.0580	1.2071 _n	9.7747 _n	9.6103 _n	9.8771 _n
141	0.5073	7.9928 _n	8.7389 _n	8.6004	1.2100 _n	9.7694 _n	9.5068	9.1618 _n
144	0.5362	8.4436 _n	8.7946 _n	8.6105	1.2248 _n	9.7385 _n	9.1592	9.5716 _n
422	0.5684	8.6991 _n	8.8776 _n	8.6748	1.2302 _n	9.7252 _n	8.4355 _n	9.7495 _n
425	0.8892	9.6949 _n	9.6981 _n	9.3709	1.2587 _n	9.6293 _n	9.5686 _n	9.9533 _n
151	0.5002	8.0255 _n	8.7941 _n	8.4237	1.2659 _n	9.5934 _n	9.5571	9.1952 _n
428	0.5897	8.9859 _n	9.0594 _n	8.6828	1.2669 _n	9.5880 _n	8.9752 _n	9.8912 _n
429	0.6394	9.2234 _n	9.2516 _n	8.8354	1.2724 _n	9.5540 _n	9.2657 _n	9.9420 _n
430	0.5156	8.4380 _n	8.8338 _n	8.4061	1.2738 _n	9.5439 _n	9.4092	9.5758 _n
577	0.4701	8.2484	8.8166 _n	8.3487	1.2783 _n	9.5083 _n	9.7031	9.4080
152	0.5263	8.6431 _n	8.8873 _n	8.4001	1.2802 _n	9.4910 _n	9.2552	9.7340 _n
433	0.6951	9.4882 _n	9.4974 _n	8.9818	1.2828 _n	9.4651 _n	9.2962 _n	9.9715 _n
435	0.5327	8.8903 _n	9.0060 _n	8.3411	1.2922 _n	9.3251 _n	9.0674	9.8744 _n
158	0.5110	8.6118 _n	8.8867 _n	8.2051	1.2929 _n	9.3093 _n	9.4138	9.7160 _n
161	0.4941	8.1083 _n	8.8250 _n	8.0843	1.2951 _n	9.2522 _n	9.5927	9.2762 _n
580	0.4773	8.3065	8.8370 _n	8.0835	1.2955 _n	9.2398 _n	9.6682	9.4629
437	0.5140	8.7994 _n	8.9599 _n	8.1444	1.2971 _n	9.1795 _n	9.3204	9.8345 _n
440	0.4865	9.4765 _n	9.4870 _n	6.5694 _n	1.3022 _n	7.0824	8.9793	9.9895 _n
583	0.4902	8.3087	8.8428 _n	7.5150 _n	1.3017 _n	8.6716	9.6033	9.4654
441	0.4794	8.7657 _n	8.9470 _n	7.6370 _n	1.3016 _n	8.6895	9.5546	9.8182 _n
442	0.4730	8.7392 _n	8.9351 _n	7.8990 _n	1.3003 _n	8.9619	9.5942	9.8022 _n

für die 172 Sterne des Jahrbuchsverzeichnisses, von denen nur mittl. Oerter gegeben sind.

Nr. des Fund.-Kat.	log. <i>a</i>	log. <i>b</i>	log. <i>c</i>	log. <i>d</i>	log. <i>a</i> '	log. <i>b</i> '	log. <i>c</i> '	log. <i>d</i> '
444	0.4514	9.0415 _n	9.1087 _n	8.1548 _n	1.2995 _n	9.0434	9.5031	9.9301 _n
172	0.4880	7.0204	8.8184 _n	8.0265 _n	1.2966 _n	9.2026	9.6347	8.1962
450	0.4420	8.7146 _n	8.9155 _n	8.3840 _n	1.2841 _n	9.4505	9.7115	9.7810 _n
451	0.4325	8.7419 _n	8.9242 _n	8.4433 _n	1.2796 _n	9.4966	9.7269	9.7952 _n
455	0.1595	9.2672 _n	9.2896 _n	8.9322 _n	1.2639 _n	9.6043	9.7141	9.9393 _n
456	0.2437	9.1087 _n	9.1507 _n	8.8605 _n	1.2515 _n	9.6592	9.7753	9.9073 _n
189	0.3309	8.8510 _n	8.9556 _n	8.7710 _n	1.2249 _n	9.7381	9.8440	9.8182 _n
191	0.4910	7.2276	8.7332 _n	8.5911 _n	1.2113 _n	9.7670	9.6184	8.4035
460	0.2130	8.9749 _n	9.0345 _n	8.9158 _n	1.2030 _n	9.7821	9.8694	9.8412 _n
461	0.3503	8.7130 _n	8.8649 _n	8.7701 _n	1.1939 _n	9.7970	9.8747	9.7399 _n
195	0.4564	8.1152 _n	8.7271 _n	8.6372 _n	1.1919 _n	9.8000	9.7596	9.2780 _n
589	0.5210	8.1452	8.7159 _n	8.6599 _n	1.1778 _n	9.8197	9.3810	9.3050
464	9.9799	9.0388 _n	9.0770 _n	9.0620 _n	1.1590 _n	9.8418	9.9087	9.8187 _n
592	0.5335	8.2077	8.6859 _n	8.7110 _n	1.1387 _n	9.8617	9.2235	9.3584
466	0.4744	7.6206 _n	8.6548 _n	8.6940 _n	1.1312 _n	9.8682	9.6991	8.7948 _n
468	0.4444	8.0801 _n	8.6458 _n	8.7268 _n	1.1074 _n	9.8862	9.7970	9.2395 _n
207	0.3322	8.5553 _n	8.7363 _n	8.8446 _n	1.0908 _n	9.8969	9.9274	9.6076 _n
208	0.3839	8.4014 _n	8.6810 _n	8.7920 _n	1.0891 _n	9.8980	9.8946	9.5074 _n
469	0.3321	8.5316 _n	8.7176 _n	8.8496 _n	1.0758 _n	9.9056	9.9312	9.5877 _n
210	0.3541	8.4703 _n	8.6913 _n	8.8288 _n	1.0722 _n	9.9075	9.9204	9.5490 _n
211	0.4025	8.2859 _n	8.6348 _n	8.7840 _n	1.0644 _n	9.9115	9.8769	9.4134 _n
470	9.9540	8.8592 _n	8.9097 _n	9.0855 _n	1.0464 _n	9.9201	9.9723	9.6938 _n
218	0.4390	8.0053 _n	8.5655 _n	8.7694 _n	1.0266 _n	9.9283	9.8132	9.1643 _n
471	0.1575	8.6926 _n	8.7791 _n	8.9980 _n	1.0157 _n	9.9324	9.9777	9.6270 _n
221	0.2767	8.5066 _n	8.6557 _n	8.9194 _n	0.9820 _n	9.9436	9.9679	9.5307 _n
473	0.4416	7.8513 _n	8.4598 _n	8.7956 _n	0.9245 _n	9.9581	9.8089	9.0138 _n
474	0.2512 _n	9.0510 _n	9.0641 _n	9.3973 _n	0.9266 _n	9.9576	9.9935	9.6113 _n
475	0.1162	8.6022 _n	8.6865 _n	9.0292 _n	0.9187 _n	9.9593	9.9982	9.5322 _n
227	0.4808	7.0090 _n	8.4251 _n	8.7866 _n	0.9030 _n	9.9624	9.6709	8.1847 _n
476	0.4170 _n	9.0432 _n	9.0534 _n	9.4628 _n	0.8621 _n	9.9693	0.0013	9.5498 _n
231	0.3613	8.1624 _n	8.4408 _n	8.8658 _n	0.8485 _n	9.9713	9.9354	9.2679 _n
479	0.4436	7.5900 _n	8.2420 _n	8.8203 _n	0.7092 _n	9.9854	9.8050	8.7550 _n
480	0.2920	8.1369 _n	8.3230 _n	8.9310 _n	0.6814 _n	9.9872	9.9830	9.1930 _n
481	0.2010	8.0674 _n	8.1940 _n	8.9960 _n	0.4948 _n	9.9947	0.0113	9.0661 _n
242	0.0652	8.0949 _n	8.1802 _n	9.0644 _n	0.4143 _n	9.9963	0.0261	9.0268 _n
243	0.0655	8.0934 _n	8.1788 _n	9.0643 _n	0.4130 _n	9.9964	0.0261	9.0255 _n
482	9.3887 _n	8.3023 _n	8.3345 _n	9.2509 _n	0.3826 _n	9.9968	0.0346	9.0482 _n
247	0.4784	6.3749 _n	7.6949 _n	8.8232 _n	0.1726 _n	9.9988	9.6822	7.5505 _n
251	0.3663	6.9930 _n	7.3043 _n	8.8830 _n	9.7232 _n	9.9998	9.9380	8.1102 _n
486	0.2708	7.5200	7.6935	8.9530 _n	0.0419	9.9993	9.9963	8.5663
487	9.4652	7.9072	7.9522	9.1870 _n	0.0066	9.9993	0.0365	8.7194
489	9.9319 _n	8.2788	8.3024	9.3156 _n	0.2869	9.9980	0.0342	8.9612
490	0.4586 _n	8.6530	8.6634	9.4826 _n	0.4780	9.9951	0.0250	9.1654

für die 172 Sterne des Jahrbuchsverzeichnisses, von denen nur mittl. Oerter gegeben sind.

Nr. des Fund.-Kat.	log. <i>a</i>	log. <i>b</i>	log. <i>c</i>	log. <i>d</i>	log. <i>a'</i>	log. <i>b'</i>	log. <i>c'</i>	log. <i>d'</i>
49I	9.2758	8.3565	8.3978	9.1992 _n	0.4954	9.9946	0.0329	9.1520
26I	0.2980	7.9923	8.1882	8.9299 _n	0.5534	9.9930	9.9828	9.0554
262	0.2984	7.9918	8.1882	8.9295 _n	0.5538	9.9930	9.9826	9.0553
267	0.4356	7.6273	8.2162	8.8261 _n	0.6795	9.9873	9.8257	8.7885
493	9.8643 _n	8.6717	8.6956	9.3020 _n	0.6828	9.9871	0.0248	9.3567
494	0.3306	8.1234	8.3547	8.8986 _n	0.7412	9.9830	9.9617	9.2077
497	0.5513 _n	9.1238	9.1313	9.5269 _n	0.8740	9.9674	9.9964	9.5644
499	0.3339	8.3318	8.5512	8.8788 _n	0.9311	9.9566	9.9504	9.4096
28I	0.4853	6.5987	8.4791	8.7743 _n	0.9573	9.9504	9.6489	7.7743
500	0.1429	8.7328	8.8129	9.0040 _n	1.0357	9.9247	9.9732	9.6535
606	0.5221	7.9174 _n	8.5715	8.7582 _n	1.0389	9.9233	9.3750	9.0826 _n
608	0.5279	8.0009 _n	8.5853	8.7584 _n	1.0483	9.9192	9.3068	9.1617 _n
609	0.5350	8.1065 _n	8.6134	8.7550 _n	1.0695	9.9090	9.2036	9.2605 _n
503	0.4614	7.8536	8.6252	8.7232 _n	1.0972	9.8930	9.7480	9.0234
295	0.4476	8.0490	8.6439	8.7244 _n	1.1077	9.8860	9.7889	9.2106
296	0.4450	8.0876	8.6534	8.7214 _n	1.1149	9.8809	9.7952	9.2470
505	0.1758	8.8298	8.9050	8.9700 _n	1.1167	9.8796	9.9405	9.7393
509	0.4112 _n	9.4197	9.4262	9.4563 _n	1.1360	9.8640	9.9000	9.8275
30I	0.3384	8.6538	8.8157	8.8105 _n	1.1542	9.8469	9.9024	9.6902
51I	0.1845	8.9216	8.9860	8.9506 _n	1.1686	9.8311	9.9053	9.8021
305	0.3765	8.5800	8.7943	8.7530 _n	1.1713	9.8279	9.8775	9.6548
513	0.3438	8.7340	8.8763	8.7775 _n	1.1954	9.7946	9.8749	9.7510
613	0.5207	8.2182 _n	8.7497	8.6162 _n	1.2083	9.7727	9.3808	9.3746 _n
515	0.2695	8.9200	8.9962	8.8578 _n	1.2100	9.7694	9.8630	9.8317
310	0.4334	8.4101	8.7810	8.6254 _n	1.2158	9.7580	9.8037	9.5427
516	9.9396	9.1975	9.2222	9.0655 _n	1.2162	9.7573	9.8341	9.8893
614	0.5095	8.0596 _n	8.7482	8.5884 _n	1.2173	9.7552	9.4886	9.2264 _n
519	0.4652	8.1084	8.7680	8.5454 _n	1.2356	9.7108	9.7290	9.2739
312	0.4423	8.4301	8.8064	8.5570 _n	1.2423	9.6908	9.7781	9.5640
313	0.4248	8.5741	8.8416	8.5814 _n	1.2449	9.6825	9.7960	9.6753
523	0.4701	8.0948	8.7874	8.4722 _n	1.2564	9.6391	9.7103	9.2618
318	0.3461	8.9887	9.0607	8.7014 _n	1.2642	9.6027	9.7558	9.8900
525	0.1599	9.3104	9.3295	8.9285 _n	1.2704	9.5672	9.6804	9.9491
527	0.3265	9.0877	9.1375	8.7264 _n	1.2717	9.5584	9.7151	9.9197
528	0.4265	8.7405	8.9209	8.4837 _n	1.2749	9.5355	9.7422	9.7924
617	0.5026	8.2002 _n	8.8132	8.3476 _n	1.2781	9.5104	9.5337	9.3629 _n
324	0.4596	8.4507	8.8400	8.3690 _n	1.2786	9.5056	9.7216	9.5872
330	0.4856	7.4953	8.8148	8.1415 _n	1.2926	9.3172	9.6466	8.6710
532	0.4736	8.4424	8.8530	8.0938 _n	1.2957	9.2344	9.6687	9.5830
536	0.4721	8.5950	8.8859	8.0185 _n	1.2982	9.1286	9.6449	9.7051
331	0.4638	8.8349	8.9785	8.0554 _n	1.2991	9.0739	9.5876	9.8533
335	0.4678	8.8031	8.9630	7.9921 _n	1.2997	9.0267	9.5874	9.8377
539	0.4740	9.0102	9.0868	7.7488 _n	1.3017	8.6615	9.4394	9.9229

Allgemeine Praecession = $50''.257$

$$A = t - 0.02526 \sin 2 \odot \\ + 0.00293 \sin (\odot + 81^\circ 56') \\ - 0.34210 \sin \Omega \\ + 0.00409 \sin 2 \Omega$$

$$[A' = -0.00405 \sin 2 \zeta \\ + 0.00134 \sin (\zeta - 76^\circ 5')]]$$

$$B = -0''.5519 \cos 2 \odot \\ - 0.0092 \cos (\odot + 281^\circ 15') \\ - 9.2100 \cos \Omega \\ + 0.0895 \cos 2 \Omega$$

$$[B' = -0.0884 \cos 2 \zeta]$$

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

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

$$E = -0''.0031 \sin 2 \odot$$

$$- 0.0426 \sin \Omega$$

$$+ 0.0014 \sin 2 \Omega$$

$$a = 46''.0856 + 20''.0466 \sin \alpha \operatorname{tg} \delta$$

$$b = \cos \alpha \operatorname{tg} \delta$$

$$c = \cos \alpha \sec \delta$$

$$d = \sin \alpha \sec \delta$$

$$a' = 20''.0466 \cos \alpha$$

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

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

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

\odot = wahre Länge der Sonne

Ω = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik

ζ = mittlere Länge des Mondes

m, m' = jährliche Eigen-Bewegung in AR. und Decl.

t = Zeit seit Anfang des Jahres, in Theilen des Jahres ausgedrückt.

AR. app. = AR. 1902.0 + $tm + Aa + Bb + Cc + Dd + E + [A'a + B'b]$

Decl. app. = Decl. 1902.0 + $tm' + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$

$$\text{Setzt man } f = 46''.0856 A + E$$

$$g \cos G = 20''.0466 A$$

$$g \sin G = B$$

$$[f' = 46''.0856 A']$$

$$[g' \cos G' = 20''.0466 A']$$

$$[g' \sin G' = B'] ,$$

$$h \sin H = C$$

$$h \cos H = D$$

$$i = C \operatorname{tg} \varepsilon$$

so wird

$$\text{AR. app.} = \text{AR. } 1902.0 + tm + f + g \sin (G + \alpha) \operatorname{tg} \delta + h \sin (H + \alpha) \sec \delta \\ + [f' + g' \sin (G' + \alpha) \operatorname{tg} \delta]$$

$$\text{Decl. app.} = \text{Decl. } 1902.0 + tm' + g \cos (G + \alpha) + h \cos (H + \alpha) \sin \delta + i \cos \delta \\ + [g' \cos (G' + \alpha)]$$

Correction für die tägliche Aberration, wenn Θ die Sternzeit, φ die Polhöhe ist:

$$\Delta \alpha = + 0''.0214 \cos \varphi \cos (\Theta - \alpha) \sec \delta = \pm [8.1375]'' \sec \delta.$$

$$\Delta \delta = + 0''.321 \cos \varphi \sin (\Theta - \alpha) \sin \delta.$$

Constanten für die Sternzeit - Epochen

18^h 40^m des Normal-Meridians oder 14^h 42^m Berlin,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

Datum in Mittl. Zeit.	<i>t</i>	log. <i>A</i>	log. <i>B</i>	log. <i>C</i>	log. <i>D</i>	<i>E</i>
1902 Jan. 0.83	0.000	9.3708	0.8778	0.5117 _n	1.3045	+0.03
10.81	0.027	9.4281	0.8753	0.8104 _n	1.2838	0.03
20.78	0.055	9.4756	0.8698	0.9763 _n	1.2474	0.03
30.75	0.082	9.5148	0.8622	1.0855 _n	1.1927	0.03
Febr. 9.73	0.109	9.5469	0.8537	1.1612 _n	1.1144	0.03
19.70	0.137	9.5732	0.8459	1.2138 _n	1.0022	+0.03
März 1.67	0.164	9.5950	0.8401	1.2483 _n	0.8319	0.03
11.64	0.191	9.6137	0.8375	1.2678 _n	0.5241	0.03
21.62	0.218	9.6305	0.8388	1.2737 _n	9.2723 _n	0.03
31.59	0.246	9.6467	0.8442	1.2665 _n	0.5673 _n	0.03
April 10.56	0.273	9.6633	0.8531	1.2461 _n	0.8493 _n	+0.02
20.53	0.300	9.6809	0.8647	1.2114 _n	1.0095 _n	0.02
30.51	0.328	9.6999	0.8777	1.1601 _n	1.1161 _n	0.02
Mai 10.48	0.355	9.7204	0.8909	1.0879 _n	1.1910 _n	0.02
20.45	0.382	9.7421	0.9032	0.9865 _n	1.2438 _n	0.02
30.42	0.410	9.7646	0.9135	0.8378 _n	1.2798 _n	+0.02
Juni 9.40	0.437	9.7873	0.9213	0.5900 _n	1.3016 _n	0.02
19.37	0.464	9.8095	0.9260	9.9013 _n	1.3107 _n	0.02
29.34	0.491	9.8308	0.9276	0.3645	1.3078 _n	0.02
Juli 9.32	0.519	9.8507	0.9262	0.7292	1.2927 _n	0.02
19.29	0.546	9.8688	0.9221	0.9170	1.2644 _n	+0.02
29.26	0.573	9.8850	0.9160	1.0390	1.2211 _n	0.02
Aug. 8.23	0.601	9.8992	0.9088	1.1245	1.1593 _n	0.02
18.21	0.628	9.9114	0.9013	1.1857	1.0724 _n	0.02
28.18	0.655	9.9220	0.8948	1.2287	0.9472 _n	0.02
Sept. 7.15	0.683	9.9312	0.8903	1.2566	0.7507 _n	+0.02
17.12	0.710	9.9394	0.8887	1.2711	0.3489 _n	0.02
27.10	0.737	9.9473	0.8905	1.2729	0.0966	0.02
Oct. 7.07	0.765	9.9551	0.8957	1.2618	0.6734	0.02
17.04	0.792	9.9635	0.9040	1.2371	0.9064	0.02
27.02	0.819	9.9727	0.9145	1.1967	1.0486	+0.02
Nov. 5.99	0.846	9.9830	0.9262	1.1371	1.1457	0.02
15.96	0.874	9.9944	0.9377	1.0518	1.2142	0.02
25.93	0.901	0.0069	0.9481	0.9276	1.2618	0.02
Dec. 5.91	0.928	0.0200	0.9562	0.7316	1.2924	0.02
15.88	0.956	0.0335	0.9614	0.3302	1.3083	+0.02
25.85	0.983	0.0468	0.9634	0.0736 _n	1.3103	0.02
35.82	1.010	0.0596	0.9622	0.6507 _n	1.2984	0.02

Constanten für die mittleren Tage 1902,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

^{12^h} Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	log. <i>h</i>	<i>H</i>	log. <i>i</i>	⊕
Jan. 0	+10.80	0.9486	58° 10'	1.3101	351° 10'	0.1340 _n	487
1	10.95	0.9503	57 47	1.3099	350 13	0.1773 _n	523
2	11.11	0.9520	57 25	1.3097	349 17	0.2166 _n	560
3	11.26	0.9537	57 3	1.3095	348 21	0.2524 _n	597
4	11.42	0.9553	56 41	1.3092	347 24	0.2854 _n	633
5	+11.57	0.9569	56 19	1.3089	346 27	0.3159 _n	670
6	11.73	0.9585	55 57	1.3086	345 31	0.3443 _n	707
7	11.88	0.9601	55 35	1.3082	344 34	0.3708 _n	743
8	12.03	0.9617	55 13	1.3079	343 37	0.3957 _n	780
9	12.18	0.9632	54 52	1.3075	342 40	0.4191 _n	816
10	+12.33	0.9647	54 31	1.3071	341 43	0.4411 _n	853
11	12.48	0.9662	54 10	1.3067	340 45	0.4620 _n	890
12	12.63	0.9677	53 49	1.3063	339 48	0.4817 _n	926
13	12.78	0.9692	53 28	1.3059	338 51	0.5005 _n	963
14	12.92	0.9706	53 7	1.3054	337 53	0.5184 _n	999
15	+13.07	0.9720	52 47	1.3049	336 56	0.5354 _n	036
16	13.21	0.9734	52 27	1.3044	335 58	0.5517 _n	073
17	13.35	0.9748	52 7	1.3039	335 0	0.5672 _n	109
18	13.49	0.9761	51 47	1.3034	334 2	0.5820 _n	146
19	13.63	0.9774	51 27	1.3029	333 4	0.5963 _n	182
20	+13.77	0.9787	51 7	1.3023	332 6	0.6099 _n	219
21	13.91	0.9800	50 48	1.3018	331 7	0.6230 _n	256
22	14.04	0.9813	50 29	1.3012	330 9	0.6356 _n	292
23	14.18	0.9826	50 10	1.3006	329 10	0.6477 _n	329
24	14.31	0.9838	49 51	1.3000	328 11	0.6593 _n	365
25	+14.44	0.9850	49 32	1.2994	327 12	0.6705 _n	402
26	14.57	0.9862	49 14	1.2988	326 13	0.6812 _n	439
27	14.70	0.9874	48 56	1.2982	325 14	0.6916 _n	475
28	14.83	0.9886	48 38	1.2976	324 14	0.7016 _n	512
29	14.96	0.9898	48 20	1.2970	323 15	0.7112 _n	548
30	+15.08	0.9909	48 3	1.2963	322 15	0.7205 _n	585
31	15.20	0.9920	47 46	1.2957	321 15	0.7295 _n	622
Febr. 1	15.32	0.9931	47 29	1.2950	320 15	0.7381 _n	658
2	15.44	0.9942	47 12	1.2944	319 15	0.7464 _n	695
3	15.56	0.9953	46 56	1.2937	318 14	0.7544 _n	731
4	+15.68	0.9964	46 40	1.2930	317 14	0.7622 _n	768
5	15.80	0.9975	46 24	1.2924	316 13	0.7697 _n	805
6	15.91	0.9986	46 8	1.2917	315 12	0.7769 _n	841

Constanten für die mittleren Tage 1902,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	$\log. g$	G	$\log. h$	H	$\log. i$	ζ
Febr. 6	+15.91	0.9986	46° 8'	1.2917	315° 12'	0.7769 _n	841
7	16.02	0.9996	45 52	1.2911	314 11	0.7839 _n	878
8	16.13	1.0007	45 37	1.2904	313 10	0.7906 _n	914
9	16.24	1.0017	45 22	1.2897	312 9	0.7971 _n	951
10	16.35	1.0027	45 7	1.2891	311 7	0.8034 _n	988
11	+16.46	1.0037	44 52	1.2884	310 5	0.8094 _n	024
12	16.57	1.0047	44 38	1.2878	309 3	0.8152 _n	061
13	16.67	1.0057	44 24	1.2871	308 1	0.8208 _n	097
14	16.77	1.0067	44 10	1.2865	306 59	0.8262 _n	134
15	16.87	1.0076	43 57	1.2859	305 57	0.8314 _n	171
16	+16.97	1.0086	43 44	1.2852	304 54	0.8364 _n	207
17	17.07	1.0095	43 31	1.2846	303 52	0.8412 _n	244
18	17.17	1.0105	43 18	1.2840	302 49	0.8458 _n	280
19	17.26	1.0114	43 6	1.2834	301 46	0.8502 _n	317
20	17.36	1.0124	42 54	1.2829	300 43	0.8545 _n	354
21	+17.45	1.0133	42 42	1.2823	299 40	0.8586 _n	390
22	17.54	1.0143	42 30	1.2817	298 36	0.8625 _n	427
23	17.63	1.0152	42 19	1.2812	297 33	0.8662 _n	463
24	17.72	1.0162	42 8	1.2806	296 29	0.8698 _n	500
25	17.81	1.0171	41 57	1.2801	295 26	0.8732 _n	537
26	+17.90	1.0181	41 46	1.2796	294 22	0.8764 _n	573
27	17.98	1.0190	41 36	1.2791	293 18	0.8795 _n	610
28	18.07	1.0200	41 26	1.2787	292 14	0.8824 _n	646
März 1	18.15	1.0209	41 16	1.2782	291 9	0.8852 _n	683
2	18.24	1.0218	41 7	1.2778	290 5	0.8878 _n	720
3	+18.32	1.0227	40 58	1.2774	289 1	0.8903 _n	756
4	18.40	1.0236	40 49	1.2770	287 56	0.8926 _n	793
5	18.48	1.0246	40 40	1.2766	286 51	0.8948 _n	829
6	18.56	1.0255	40 32	1.2763	285 47	0.8968 _n	866
7	18.64	1.0265	40 24	1.2759	284 42	0.8987 _n	903
8	+18.72	1.0275	40 16	1.2756	283 37	0.9005 _n	939
9	18.80	1.0285	40 8	1.2753	282 33	0.9021 _n	976
10	18.88	1.0295	40 0	1.2750	281 28	0.9036 _n	012
11	18.95	1.0305	39 53	1.2748	280 23	0.9049 _n	049
12	19.03	1.0315	39 46	1.2746	279 18	0.9061 _n	086
13	+19.10	1.0325	39 39	1.2744	278 13	0.9072 _n	122
14	19.18	1.0335	39 32	1.2742	277 8	0.9081 _n	159
15	19.25	1.0346	39 26	1.2741	276 3	0.9089 _n	195

Constanten für die mittleren Tage 1902,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

t_2^h Mittl. Zeit	f	$\log. g$	G	$\log. h$	H	$\log. i$	ζ		
März	15	+19.25	1.0346	39 26	1.2741	276° 3	0.9089 _n	195	
	16	19.33	1.0356	39 20	1.2739	274 58	0.9096 _n	232	
	17	19.40	1.0367	39 14	1.2738	273 53	0.9101 _n	269	
	18	19.48	1.0378	39 8	1.2738	272 48	0.9105 _n	305	
	19	19.55	1.0389	39 3	1.2737	271 43	0.9108 _n	342	
	20	+19.62	1.0400	38 58	1.2737	270 38	0.9109 _n	378	
	21	19.70	1.0411	38 53	1.2737	269 33	0.9109 _n	415	
	22	19.77	1.0422	38 48	1.2737	268 28	0.9108 _n	452	
	23	19.85	1.0434	38 43	1.2737	267 23	0.9106 _n	488	
	24	19.92	1.0445	38 38	1.2738	266 19	0.9102 _n	525	
	25	+20.00	1.0457	38 33	1.2739	265 14	0.9097 _n	561	
	26	20.07	1.0469	38 29	1.2740	264 9	0.9091 _n	598	
	27	20.15	1.0481	38 25	1.2742	263 5	0.9083 _n	635	
	28	20.22	1.0493	38 21	1.2743	262 0	0.9074 _n	671	
	29	20.30	1.0505	38 17	1.2745	260 56	0.9064 _n	708	
	30	+20.37	1.0518	38 13	1.2747	259 52	0.9052 _n	744	
	31	20.45	1.0531	38 10	1.2750	258 47	0.9039 _n	781	
	April	1	20.52	1.0544	38 6	1.2752	257 43	0.9025 _n	818
		2	20.60	1.0557	38 3	1.2755	256 39	0.9009 _n	854
		3	20.68	1.0570	38 0	1.2758	255 35	0.8992 _n	891
		4	+20.76	1.0584	37 57	1.2761	254 32	0.8974 _n	927
		5	20.84	1.0598	37 54	1.2765	253 28	0.8954 _n	964
		6	20.92	1.0612	37 51	1.2768	252 25	0.8933 _n	001
		7	21.00	1.0626	37 48	1.2772	251 21	0.8911 _n	037
		8	21.08	1.0640	37 46	1.2776	250 18	0.8887 _n	074
		9	+21.16	1.0654	37 43	1.2780	249 15	0.8862 _n	110
		10	21.24	1.0668	37 41	1.2785	248 12	0.8835 _n	147
		11	21.32	1.0683	37 38	1.2789	247 10	0.8807 _n	184
		12	21.41	1.0698	37 36	1.2794	246 7	0.8778 _n	220
13	21.49	1.0713	37 33	1.2799	245 5	0.8747 _n	257		
14	+21.58	1.0728	37 31	1.2804	244 3	0.8715 _n	293		
15	21.67	1.0743	37 29	1.2809	243 1	0.8681 _n	330		
16	21.76	1.0759	37 27	1.2814	241 59	0.8646 _n	367		
17	21.85	1.0774	37 24	1.2819	240 57	0.8609 _n	403		
18	21.94	1.0790	37 22	1.2825	239 56	0.8570 _n	440		
19	+22.03	1.0806	37 20	1.2830	238 55	0.8530 _n	476		
20	22.12	1.0822	37 18	1.2836	237 54	0.8488 _n	513		
21	22.21	1.0838	37 16	1.2842	236 53	0.8445 _n	550		

Constanten für die mittleren Tage 1902,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	$\log. g$	G	$\log. h$	H	$\log. i$	ζ
April 21	+22.2I	I.0838	37° 16'	I.2842	236° 53'	0.8445 _n	550
22	22.3I	I.0855	37 14	I.2848	235 52	0.8400 _n	586
23	22.4I	I.0872	37 12	I.2854	234 52	0.8353 _n	623
24	22.5I	I.0889	37 9	I.2860	233 5I	0.8304 _n	659
25	22.6I	I.0906	37 7	I.2866	232 5I	0.8254 _n	696
26	+22.7I	I.0923	37 5	I.2872	23I 5I	0.8202 _n	733
27	22.8I	I.0940	37 3	I.2878	230 52	0.8148 _n	769
28	22.9I	I.0957	37 0	I.2885	229 52	0.8092 _n	806
29	23.0I	I.0974	36 58	I.289I	228 53	0.8034 _n	842
30	23.1I	I.0992	36 55	I.2897	227 54	0.7974 _n	879
Mai 1	+23.22	I.1009	36 53	I.2903	226 55	0.7912 _n	916
2	23.33	I.1027	36 50	I.2910	225 56	0.7848 _n	952
3	23.44	I.1044	36 47	I.2916	224 58	0.7782 _n	989
4	23.55	I.1062	36 45	I.2922	224 0	0.7713 _n	025
5	23.66	I.1080	36 42	I.2929	223 2	0.7642 _n	062
6	+23.77	I.1098	36 39	I.2935	222 4	0.7569 _n	099
7	23.88	I.1116	36 36	I.294I	22I 6	0.7493 _n	135
8	23.99	I.1134	36 33	I.2948	220 9	0.7415 _n	172
9	24.11	I.1152	36 30	I.2954	219 11	0.7334 _n	208
10	24.23	I.1171	36 27	I.2960	218 14	0.7250 _n	245
11	+24.35	I.1189	36 24	I.2966	217 17	0.7164 _n	282
12	24.47	I.1208	36 21	I.2972	216 21	0.7074 _n	318
13	24.59	I.1226	36 18	I.2978	215 24	0.6981 _n	355
14	24.72	I.1245	36 14	I.2984	214 28	0.6885 _n	392
15	24.84	I.1263	36 10	I.2990	213 31	0.6786 _n	428
16	+24.97	I.1282	36 7	I.2996	212 35	0.6683 _n	465
17	25.09	I.1300	36 3	I.3001	211 40	0.6576 _n	501
18	25.22	I.1319	35 59	I.3007	210 44	0.6465 _n	538
19	25.35	I.1338	35 55	I.3012	209 48	0.6351 _n	575
20	25.48	I.1356	35 51	I.3018	208 53	0.6232 _n	611
21	+25.61	I.1375	35 47	I.3023	207 58	0.6108 _n	648
22	25.74	I.1393	35 43	I.3028	207 3	0.5980 _n	684
23	25.87	I.1412	35 39	I.3033	206 8	0.5847 _n	721
24	26.01	I.1430	35 35	I.3038	205 13	0.5708 _n	758
25	26.14	I.1449	35 30	I.3043	204 19	0.5563 _n	794
26	+26.28	I.1467	35 25	I.3048	203 24	0.5412 _n	831
27	26.42	I.1485	35 20	I.3052	202 30	0.5254 _n	867
28	26.56	I.1504	35 16	I.3056	201 36	0.5090 _n	904

Constanten für die mittleren Tage 1902,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit		f	$\log. g$	G	$\log. h$	H	$\log. i$	ζ
Mai	28	+26.56	1.1504	35 16'	1.3056	201 36'	0.5090 _n	904
	29	26.70	1.1522	35 11	1.3061	200 42	0.4918 _n	941
	30	26.84	1.1540	35 6	1.3065	199 48	0.4737 _n	977
	31	26.98	1.1559	35 1	1.3069	198 54	0.4547 _n	014
Juni	1	27.12	1.1577	34 56	1.3073	198 0	0.4347 _n	050
	2	+27.26	1.1595	34 51	1.3076	197 6	0.4137 _n	087
	3	27.41	1.1613	34 45	1.3080	196 13	0.3915 _n	124
	4	27.55	1.1631	34 40	1.3083	195 19	0.3679 _n	160
	5	27.70	1.1649	34 34	1.3086	194 26	0.3429 _n	197
	6	27.84	1.1667	34 28	1.3089	193 33	0.3162 _n	233
	7	+27.99	1.1684	34 22	1.3092	192 40	0.2876 _n	270
	8	28.14	1.1702	34 16	1.3094	191 47	0.2569 _n	307
	9	28.28	1.1719	34 10	1.3097	190 54	0.2237 _n	343
	10	28.43	1.1737	34 4	1.3099	190 1	0.1877 _n	380
	11	28.58	1.1754	33 58	1.3101	189 8	0.1483 _n	416
	12	+28.72	1.1771	33 52	1.3103	188 15	0.1049 _n	453
	13	28.87	1.1788	33 46	1.3105	187 22	0.0565 _n	490
	14	29.02	1.1805	33 40	1.3106	186 30	0.0019 _n	526
	15	29.17	1.1822	33 33	1.3107	185 37	9.9392 _n	563
	16	29.32	1.1839	33 27	1.3108	184 44	9.8659 _n	599
	17	+29.47	1.1855	33 20	1.3109	183 52	9.7775 _n	636
	18	29.62	1.1872	33 13	1.3110	182 59	9.6661 _n	673
	19	29.77	1.1888	33 6	1.3111	182 6	9.5176 _n	709
	20	29.92	1.1904	32 59	1.3111	181 14	9.2847 _n	746
	21	30.07	1.1920	32 52	1.3111	180 21	8.7559 _n	782
	22	+30.22	1.1936	32 45	1.3111	179 29	8.8960	819
	23	30.37	1.1952	32 38	1.3111	178 36	9.3310	856
	24	30.52	1.1968	32 31	1.3111	177 44	9.5437	892
	25	30.67	1.1983	32 24	1.3110	176 51	9.6858	929
	26	30.82	1.1999	32 17	1.3109	175 59	9.7927	965
27	+30.97	1.2014	32 9	1.3108	175 6	9.8783	002	
28	31.12	1.2029	32 2	1.3107	174 14	9.9497	039	
29	31.27	1.2044	31 55	1.3106	173 21	0.0108	075	
30	31.42	1.2059	31 48	1.3104	172 29	0.0642	112	
Juli	1	31.56	1.2073	31 40	1.3103	171 36	0.1117	148
	2	+31.71	1.2088	31 33	1.3101	170 43	0.1544	185
	3	31.85	1.2102	31 25	1.3099	169 51	0.1932	222
	4	32.00	1.2116	31 18	1.3096	168 58	0.2287	258

Constanten für die mittleren Tage 1902,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

	12^h Mittl. Zeit	f	$\log. g$	G	$\log. h$	H	$\log. i$	ζ
Juli	4	+32.00	I.2116	31 18'	I.3096	168° 58'	0.2287	258
	5	32.15	I.2130	31 10	I.3094	168 5	0.2614	295
	6	32.30	I.2144	31 3	I.3091	167 12	0.2916	331
	7	32.44	I.2158	30 55	I.3088	166 19	0.3198	368
	8	32.59	I.2172	30 48	I.3085	165 26	0.3462	405
	9	+32.73	I.2185	30 40	I.3082	164 33	0.3709	441
	10	32.88	I.2198	30 33	I.3079	163 39	0.3942	478
	11	33.02	I.2211	30 25	I.3076	162 46	0.4162	514
	12	33.16	I.2224	30 18	I.3072	161 53	0.4371	551
	13	33.30	I.2237	30 10	I.3068	160 59	0.4569	588
	14	+33.44	I.2250	30 3	I.3064	160 6	0.4756	624
	15	33.58	I.2262	29 55	I.3060	159 12	0.4935	661
	16	33.72	I.2275	29 47	I.3056	158 18	0.5106	697
	17	33.85	I.2287	29 39	I.3052	157 24	0.5269	734
	18	33.99	I.2299	29 31	I.3047	156 30	0.5425	771
	19	+34.12	I.2311	29 24	I.3043	155 36	0.5574	807
	20	34.26	I.2323	29 16	I.3038	154 42	0.5718	844
	21	34.39	I.2334	29 9	I.3033	153 47	0.5856	880
	22	34.52	I.2346	29 1	I.3028	152 53	0.5988	917
	23	34.65	I.2357	28 54	I.3023	151 58	0.6115	954
	24	+34.78	I.2368	28 46	I.3017	151 3	0.6237	990
	25	34.91	I.2379	28 39	I.3012	150 8	0.6355	027
	26	35.04	I.2390	28 32	I.3007	149 13	0.6469	063
	27	35.16	I.2401	28 24	I.3001	148 18	0.6579	100
	28	35.29	I.2411	28 17	I.2996	147 23	0.6684	137
	29	+35.41	I.2421	28 10	I.2990	146 27	0.6786	173
	30	35.53	I.2431	28 2	I.2984	145 31	0.6885	210
	31	35.66	I.2441	27 55	I.2978	144 35	0.6980	246
Aug.	1	35.78	I.2451	27 48	I.2972	143 39	0.7072	283
	2	35.90	I.2461	27 41	I.2966	142 43	0.7161	320
	3	+36.02	I.2471	27 34	I.2960	141 47	0.7247	356
	4	36.14	I.2480	27 27	I.2954	140 50	0.7330	393
	5	36.26	I.2489	27 20	I.2948	139 53	0.7411	429
	6	36.37	I.2498	27 13	I.2942	138 56	0.7489	466
	7	36.48	I.2507	27 6	I.2935	137 59	0.7564	503
	8	+36.59	I.2516	26 59	I.2929	137 2	0.7637	539
	9	36.70	I.2525	26 52	I.2923	136 4	0.7707	576
	10	36.81	I.2534	26 46	I.2917	135 7	0.7775	612

Constanten für die mittleren Tage 1902,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	$\log. g$	G	$\log. h$	H	$\log. i$	ζ
Aug. 10	+36.81	1.2534	26 ⁿ 46	1.2917	135 ^o 7	0.7775	612
11	36.92	1.2543	26 40	1.2910	134 9	0.7841	649
12	37.02	1.2551	26 34	1.2904	133 11	0.7905	686
13	37.13	1.2560	26 28	1.2898	132 13	0.7966	722
14	37.23	1.2568	26 21	1.2892	131 14	0.8026	759
15	+37.33	1.2576	26 15	1.2885	130 16	0.8084	795
16	37.43	1.2584	26 9	1.2879	129 17	0.8139	832
17	37.53	1.2592	26 3	1.2873	128 18	0.8193	869
18	37.63	1.2600	25 57	1.2867	127 19	0.8245	905
19	37.73	1.2608	25 51	1.2861	126 19	0.8295	942
20	+37.82	1.2615	25 46	1.2855	125 20	0.8343	978
21	37.92	1.2623	25 40	1.2849	124 20	0.8390	015
22	38.01	1.2630	25 35	1.2843	123 20	0.8435	052
23	38.11	1.2638	25 30	1.2837	122 20	0.8478	088
24	38.20	1.2645	25 25	1.2832	121 19	0.8520	125
25	+38.29	1.2652	25 20	1.2826	120 19	0.8560	161
26	38.38	1.2659	25 15	1.2821	119 18	0.8598	198
27	38.47	1.2666	25 10	1.2815	118 17	0.8635	235
28	38.56	1.2673	25 5	1.2810	117 16	0.8671	271
29	38.65	1.2680	25 0	1.2805	116 15	0.8705	308
30	+38.73	1.2687	24 56	1.2800	115 14	0.8737	344
31	38.82	1.2694	24 51	1.2795	114 12	0.8768	381
Sept. 1	38.90	1.2701	24 47	1.2791	113 11	0.8798	418
2	38.98	1.2708	24 43	1.2786	112 9	0.8826	454
3	39.06	1.2715	24 39	1.2782	111 7	0.8853	491
4	+39.14	1.2722	24 35	1.2778	110 5	0.8879	527
5	39.22	1.2729	24 31	1.2774	109 2	0.8903	564
6	39.30	1.2736	24 27	1.2770	108 0	0.8925	601
7	39.38	1.2742	24 24	1.2766	106 58	0.8946	637
8	39.46	1.2749	24 20	1.2763	105 55	0.8966	674
9	+39.54	1.2755	24 17	1.2760	104 52	0.8984	710
10	39.62	1.2762	24 14	1.2757	103 49	0.9002	747
11	39.69	1.2768	24 11	1.2754	102 46	0.9018	784
12	39.77	1.2775	24 8	1.2751	101 43	0.9032	820
13	39.84	1.2781	24 5	1.2749	100 39	0.9046	857
14	+39.92	1.2788	24 2	1.2746	99 36	0.9058	893
15	39.99	1.2794	24 0	1.2744	98 32	0.9068	930
16	40.06	1.2801	23 57	1.2743	97 29	0.9078	967

Constanten für die mittleren Tage 1902,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12 ^h Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	log. <i>h</i>	<i>H</i>	log. <i>i</i>	<i>Q</i>
Sept. 16	+40.06	1.2801	23° 57'	1.2743	97° 29'	0.9078	967
17	40.14	1.2807	23 55	1.2741	96 25	0.9086	003
18	40.21	1.2814	23 53	1.2740	95 21	0.9093	040
19	40.28	1.2821	23 51	1.2739	94 18	0.9099	076
20	40.36	1.2827	23 49	1.2738	93 14	0.9104	113
21	+40.43	1.2834	23 47	1.2737	92 10	0.9107	150
22	40.50	1.2841	23 45	1.2737	91 6	0.9109	186
23	40.57	1.2848	23 44	1.2737	90 2	0.9110	223
24	40.64	1.2855	23 42	1.2737	88 58	0.9109	259
25	40.71	1.2862	23 41	1.2737	87 54	0.9107	296
26	+40.78	1.2869	23 39	1.2738	86 49	0.9104	333
27	40.86	1.2876	23 38	1.2739	85 45	0.9099	369
28	40.93	1.2883	23 37	1.2740	84 41	0.9094	406
29	41.01	1.2890	23 36	1.2741	83 37	0.9087	442
30	41.08	1.2897	23 35	1.2743	82 33	0.9079	479
Oct. 1	+41.16	1.2905	23 34	1.2745	81 29	0.9069	516
2	41.23	1.2912	23 33	1.2747	80 25	0.9058	552
3	41.31	1.2920	23 32	1.2749	79 21	0.9046	589
4	41.38	1.2928	23 31	1.2751	78 16	0.9032	625
5	41.46	1.2936	23 31	1.2754	77 12	0.9017	662
6	+41.54	1.2944	23 31	1.2757	76 8	0.9001	699
7	41.61	1.2952	23 31	1.2760	75 4	0.8983	735
8	41.69	1.2960	23 30	1.2763	74 1	0.8964	772
9	41.77	1.2968	23 30	1.2767	72 57	0.8944	808
10	41.85	1.2976	23 30	1.2770	71 53	0.8922	845
11	+41.93	1.2984	23 30	1.2774	70 49	0.8899	882
12	42.01	1.2992	23 30	1.2778	69 46	0.8874	918
13	42.09	1.3001	23 30	1.2783	68 42	0.8848	955
14	42.17	1.3009	23 30	1.2787	67 39	0.8821	991
15	42.26	1.3018	23 30	1.2792	66 36	0.8792	028
16	+42.34	1.3027	23 31	1.2797	65 32	0.8761	065
17	42.43	1.3036	23 31	1.2802	64 29	0.8729	101
18	42.51	1.3045	23 31	1.2807	63 26	0.8695	138
19	42.60	1.3054	23 31	1.2812	62 23	0.8660	174
20	42.69	1.3063	23 32	1.2817	61 21	0.8623	211
21	+42.78	1.3072	23 32	1.2823	60 18	0.8584	248
22	42.87	1.3081	23 32	1.2829	59 16	0.8544	284
23	42.96	1.3091	23 32	1.2834	58 13	0.8502	321

Constanten für die mittleren Tage 1902,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	$\log. g$	G	$\log. h$	H	$\log. i$	ζ
Oct. 23	+42.96	1.3091	23° 32'	1.2834	58° 13'	0.8502	321
24	43.05	1.3100	23 33	1.2840	57 11	0.8458	357
25	43.15	1.3110	23 33	1.2846	56 9	0.8412	394
26	43.24	1.3120	23 34	1.2852	55 7	0.8365	431
27	43.34	1.3130	23 34	1.2858	54 5	0.8315	467
28	+43.44	1.3140	23 35	1.2865	53 3	0.8264	504
29	43.54	1.3150	23 35	1.2871	52 2	0.8211	540
30	43.64	1.3160	23 36	1.2877	51 1	0.8156	577
31	43.74	1.3171	23 36	1.2884	49 59	0.8098	614
Nov. 1	43.84	1.3181	23 37	1.2890	48 58	0.8039	650
2	+43.95	1.3192	23 37	1.2897	47 57	0.7977	687
3	44.06	1.3203	23 37	1.2903	46 57	0.7913	723
4	44.17	1.3214	23 37	1.2910	45 56	0.7847	760
5	44.28	1.3225	23 38	1.2916	44 55	0.7778	797
6	44.39	1.3236	23 38	1.2923	43 55	0.7707	833
7	+44.50	1.3247	23 38	1.2930	42 55	0.7633	870
8	44.62	1.3258	23 38	1.2936	41 55	0.7557	906
9	44.73	1.3269	23 39	1.2943	40 55	0.7477	943
10	44.85	1.3281	23 39	1.2949	39 55	0.7395	980
11	44.97	1.3292	23 39	1.2956	38 55	0.7310	016
12	+45.09	1.3304	23 39	1.2962	37 56	0.7222	053
13	45.21	1.3316	23 39	1.2968	36 57	0.7131	089
14	45.33	1.3328	23 39	1.2975	35 58	0.7036	126
15	45.45	1.3340	23 39	1.2981	34 59	0.6937	163
16	45.58	1.3352	23 38	1.2987	34 0	0.6835	199
17	+45.70	1.3364	23 38	1.2993	33 1	0.6729	236
18	45.83	1.3376	23 38	1.2999	32 2	0.6619	272
19	45.96	1.3388	23 37	1.3005	31 4	0.6505	309
20	46.09	1.3400	23 36	1.3011	30 6	0.6386	346
21	46.22	1.3412	23 36	1.3016	29 7	0.6262	382
22	+46.36	1.3424	23 35	1.3022	28 9	0.6134	419
23	46.49	1.3436	23 35	1.3027	27 12	0.6000	455
24	46.63	1.3448	23 34	1.3033	26 14	0.5860	492
25	46.77	1.3460	23 33	1.3038	25 16	0.5714	529
26	46.91	1.3473	23 32	1.3043	24 19	0.5562	565
27	+47.05	1.3485	23 31	1.3048	23 21	0.5402	602
28	47.19	1.3498	23 30	1.3053	22 24	0.5235	638
29	47.33	1.3511	23 29	1.3057	21 27	0.5060	675

Constanten für die mittleren Tage 1902,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	$\log. g$	G	$\log. h$	H	$\log. i$	ζ
Nov. 29	+47.33	1.3511	23 29	1.3057	21 27	0.5060	675
30	47.48	1.3523	23 27	1.3062	20 30	0.4876	712
Dec. 1	47.62	1.3536	23 26	1.3066	19 32	0.4682	748
2	47.77	1.3548	23 24	1.3070	18 35	0.4478	785
3	47.92	1.3561	23 23	1.3074	17 39	0.4263	821
4	+48.07	1.3573	23 21	1.3078	16 42	0.4035	858
5	48.22	1.3586	23 19	1.3081	15 45	0.3792	895
6	48.37	1.3598	23 17	1.3085	14 48	0.3533	931
7	48.52	1.3610	23 15	1.3088	13 52	0.3257	968
8	48.67	1.3622	23 13	1.3091	12 55	0.2960	004
9	+48.82	1.3635	23 11	1.3094	11 59	0.2640	041
10	48.97	1.3647	23 9	1.3096	11 3	0.2293	078
11	49.12	1.3660	23 7	1.3099	10 6	0.1914	114
12	49.28	1.3672	23 4	1.3101	9 10	0.1497	151
13	49.43	1.3684	23 2	1.3103	8 14	0.1035	187
14	+49.58	1.3696	22 59	1.3105	7 18	0.0515	224
15	49.74	1.3708	22 56	1.3106	6 21	9.9924	261
16	49.89	1.3720	22 53	1.3108	5 25	9.9236	297
17	50.04	1.3731	22 50	1.3109	4 29	9.8417	334
18	50.20	1.3743	22 47	1.3110	3 33	9.7405	370
19	+50.35	1.3755	22 44	1.3110	2 37	9.6081	407
20	50.51	1.3767	22 41	1.3111	1 41	9.4165	444
21	50.67	1.3779	22 38	1.3111	0 45	9.0654	480
22	50.82	1.3790	22 34	1.3111	359 49	8.4564 _n	517
23	50.98	1.3802	22 31	1.3111	358 53	9.2393 _n	553
24	+51.14	1.3813	22 27	1.3111	357 57	9.5028 _n	590
25	51.30	1.3824	22 24	1.3110	357 1	9.6657 _n	627
26	51.45	1.3836	22 20	1.3109	356 4	9.7836 _n	663
27	51.61	1.3847	22 16	1.3108	355 8	9.8762 _n	700
28	51.76	1.3858	22 12	1.3107	354 12	9.9524 _n	736
29	+51.92	1.3869	22 9	1.3106	353 16	0.0171 _n	773
30	52.07	1.3880	22 5	1.3104	352 20	0.0732 _n	810
31	52.23	1.3891	22 1	1.3102	351 23	0.1228 _n	846
32	52.38	1.3902	21 57	1.3100	350 27	0.1672 _n	883
33	52.54	1.3913	21 53	1.3098	349 30	0.2073 _n	919
34	+52.69	1.3923	21 49	1.3095	348 34	0.2439 _n	956
35	52.84	1.3934	21 45	1.3093	347 37	0.2776 _n	993
36	52.99	1.3944	21 41	1.3090	346 41	0.3087 _n	029

Constanten zur Berücksichtigung der Nutations-
Glieder von kurzer Periode für 1902.

☾	log. A'	log. B'	f'	log. g'	G'	☾	log. A'	log. B'	f'	log. g'	G'
000	7.115 _n	8.946 _n	-0.06	8.965	253.5	350	7.688	8.436	+0.22	9.006	15.6
010	7.252 _n	8.943 _n	-0.08	8.977	247.8	360	7.703	8.219	+0.23	9.011	9.3
020	7.354 _n	8.933 _n	-0.10	8.986	242.2	370	7.713	7.744	+0.24	9.015	3.1
030	7.433 _n	8.915 _n	-0.12	8.993	236.6	380	7.717	7.744 _n	+0.24	9.019	357.0
040	7.496 _n	8.889 _n	-0.14	8.999	231.0	390	7.715	8.219 _n	+0.24	9.022	350.9
050	7.546 _n	8.854 _n	-0.16	9.002	225.4	400	7.707	8.436 _n	+0.23	9.024	345.0
060	7.587 _n	8.809 _n	-0.18	9.003	219.8	410	7.693	8.576 _n	+0.23	9.025	339.2
070	7.619 _n	8.751 _n	-0.19	9.003	214.1	420	7.673	8.675 _n	+0.22	9.024	333.4
080	7.644 _n	8.675 _n	-0.20	9.001	208.2	430	7.647	8.751 _n	+0.21	9.022	327.6
090	7.662 _n	8.576 _n	-0.21	8.997	202.2	440	7.613	8.809 _n	+0.19	9.019	321.9
100	7.673 _n	8.436 _n	-0.22	8.993	196.1	450	7.570	8.854 _n	+0.17	9.014	316.2
110	7.679 _n	8.219 _n	-0.22	8.987	189.8	460	7.517	8.889 _n	+0.15	9.007	310.4
120	7.678 _n	7.744 _n	-0.22	8.981	183.3	470	7.452	8.915 _n	+0.13	8.999	304.6
130	7.671 _n	7.744	-0.22	8.974	176.6	480	7.369	8.933 _n	+0.11	8.990	298.7
140	7.658 _n	8.219	-0.21	8.967	169.7	490	7.262	8.943 _n	+0.08	8.978	292.7
150	7.639 _n	8.436	-0.20	8.961	162.6	500	7.115	8.946 _n	+0.06	8.965	286.5
160	7.611 _n	8.576	-0.19	8.955	155.3	510	6.888	8.943 _n	+0.04	8.950	280.0
170	7.575 _n	8.675	-0.17	8.950	147.8	520	6.390	8.933 _n	+0.01	8.933	273.3
180	7.529 _n	8.751	-0.16	8.945	140.2	530	6.431 _n	8.915 _n	-0.01	8.916	266.2
190	7.470 _n	8.809	-0.14	8.942	132.5	540	6.885 _n	8.889 _n	-0.04	8.898	258.8
200	7.393 _n	8.854	-0.11	8.940	124.7	550	7.093 _n	8.854 _n	-0.06	8.879	250.9
210	7.292 _n	8.889	-0.09	8.939	116.9	560	7.224 _n	8.809 _n	-0.08	8.861	242.5
220	7.151 _n	8.915	-0.07	8.939	109.1	570	7.317 _n	8.751 _n	-0.10	8.845	233.6
230	6.929 _n	8.933	-0.04	8.941	101.3	580	7.385 _n	8.675 _n	-0.11	8.832	224.2
240	6.426 _n	8.943	-0.01	8.944	93.5	590	7.437 _n	8.576 _n	-0.13	8.823	214.5
250	6.509	8.946	+0.02	8.948	85.8	600	7.475 _n	8.436 _n	-0.14	8.818	204.6
260	6.960	8.943	+0.04	8.952	78.2	610	7.502 _n	8.219 _n	-0.15	8.818	194.6
270	7.173	8.933	+0.07	8.957	70.8	620	7.520 _n	7.744 _n	-0.15	8.823	184.8
280	7.312	8.915	+0.10	8.963	63.4	630	7.529 _n	7.744	-0.16	8.832	175.3
290	7.413	8.889	+0.12	8.970	56.2	640	7.530 _n	8.219	-0.16	8.845	166.3
300	7.490	8.854	+0.14	8.976	49.1	650	7.524 _n	8.436	-0.15	8.860	157.8
310	7.550	8.809	+0.16	8.982	42.2	660	7.510 _n	8.576	-0.15	8.875	149.9
320	7.598	8.751	+0.18	8.988	35.3	670	7.487 _n	8.675	-0.14	8.890	142.4
330	7.636	8.675	+0.20	8.995	28.6	680	7.455 _n	8.751	-0.13	8.905	135.4
340	7.666	8.576	+0.21	9.001	22.1	690	7.413 _n	8.809	-0.12	8.918	128.8
350	7.688	8.436	+0.22	9.006	15.6	700	7.358 _n	8.854	-0.10	8.929	122.6

Constanten zur Berücksichtigung der Nutations-
Glieder von kurzer Periode für 1902.

☾	log. A'	log. B'	f'	log. g'	G'	☾	log. A'	log. B'	f'	log. g'	G'
700	7.358 _n	8.854	-0.10	8.929	122.6	850	7.450	8.436	+0.13	8.798	25.8
710	7.287 _n	8.889	-0.08	8.938	116.6	860	7.462	8.219	+0.13	8.781	15.9
720	7.194 _n	8.915	-0.07	8.944	110.8	870	7.464	7.744	+0.13	8.768	5.4
730	7.066 _n	8.933	-0.05	8.948	105.2	880	7.457	7.744 _n	+0.13	8.761	354.5
740	6.873 _n	8.943	-0.03	8.949	99.7	890	7.442	8.219 _n	+0.13	8.762	343.4
750	6.509 _n	8.946	-0.01	8.948	94.2	900	7.416	8.436 _n	+0.12	8.770	332.4
760	6.014	8.943	0.00	8.943	88.6	910	7.378	8.576 _n	+0.11	8.785	321.8
770	6.718	8.933	+0.02	8.936	83.0	920	7.326	8.675 _n	+0.10	8.804	311.9
780	6.968	8.915	+0.04	8.926	77.3	930	7.256	8.751 _n	+0.08	8.826	302.7
790	7.118	8.889	+0.06	8.913	71.3	940	7.158	8.809 _n	+0.07	8.849	294.1
800	7.222	8.854	+0.08	8.897	64.9	950	7.017	8.854 _n	+0.05	8.872	286.2
810	7.299	8.809	+0.09	8.880	58.2	960	6.783	8.889 _n	+0.03	8.894	278.9
820	7.356	8.751	+0.10	8.860	51.0	970	6.173	8.915 _n	+0.01	8.915	272.1
830	7.399	8.675	+0.11	8.839	43.3	980	6.514 _n	8.933 _n	-0.02	8.934	265.6
840	7.430	8.576	+0.12	8.818	34.9	990	6.910 _n	8.943 _n	-0.04	8.951	259.4
850	7.450	8.436	+0.13	8.798	25.8	1000	7.115 _n	8.946 _n	-0.06	8.965	253.5

Correction der Schiefe der Ekliptik für die Glieder
von kurzer Periode.

Argument ☾		Δε	Argument ☾		Δε	Argument ☾		Δε
000	500	+0.09	200	700	-0.07	400	900	+0.03
020	520	+0.09	220	720	-0.08	420	920	+0.05
040	540	+0.08	240	740	-0.09	440	940	+0.07
060	560	+0.07	260	760	-0.09	460	960	+0.08
080	580	+0.05	280	780	-0.08	480	980	+0.09
100	600	+0.03	300	800	-0.07	500	000	+0.09
120	620	+0.01	320	820	-0.06			
140	640	-0.02	340	840	-0.04			
160	660	-0.04	360	860	-0.02			
180	680	-0.06	380	880	+0.01			
200	700	-0.07	400	900	+0.03			

Constanten für die Stern - Tage 1902,
gültig für die Sternzeit-Epochen 14^h 42^m.5 Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	C
Jan. 0.835	0.0000	9.3729	0.8726	0.5117 _n	I.3045	-3.249
1.832	0.0027	9.3754	0.8731	0.5535 _n	I.3031	3.577
2.830	0.0055	9.3785	0.8744	0.5914 _n	I.3015	3.903
3.827	0.0082	9.3827	0.8764	0.6262 _n	I.2998	4.229
4.824	0.0109	9.3882	0.8785	0.6582 _n	I.2980	4.553
5.821	0.0136	9.3950	0.8803	0.6880 _n	I.2960	-4.875
6.819	0.0164	9.4028	0.8814	0.7156 _n	I.2938	5.196
7.816	0.0191	9.4111	0.8815	0.7416 _n	I.2915	5.515
8.813	0.0218	9.4191	0.8805	0.7659 _n	I.2891	5.833
9.811	0.0246	9.4263	0.8786	0.7888 _n	I.2865	6.148
10.808	0.0273	9.4325	0.8760	0.8104 _n	I.2838	-6.462
11.805	0.0300	9.4372	0.8733	0.8308 _n	I.2809	
12.802	0.0328	9.4408	0.8708	0.8502 _n	I.2778	
13.800	0.0355	9.4434	0.8691	0.8687 _n	I.2746	
14.797	0.0382	9.4457	0.8683	0.8862 _n	I.2712	
15.794	0.0410	9.4482	0.8686	0.9030 _n	I.2677	
16.791	0.0437	9.4514	0.8697	0.9190 _n	I.2640	
17.789	0.0464	9.4557	0.8714	0.9342 _n	I.2601	
18.786	0.0491	9.4612	0.8731	0.9489 _n	I.2560	
19.783	0.0519	9.4678	0.8743	0.9629 _n	I.2518	
20.780	0.0546	9.4749	0.8748	0.9763 _n	I.2474	
21.778	0.0573	9.4822	0.8742	0.9893 _n	I.2428	
22.775	0.0601	9.4891	0.8725	I.0017 _n	I.2380	
23.772	0.0628	9.4950	0.8699	I.0136 _n	I.2331	
24.770	0.0655	9.4997	0.8669	I.0250 _n	I.2280	
25.767	0.0683	9.5030	0.8638	I.0361 _n	I.2226	
26.764	0.0710	9.5052	0.8612	I.0467 _n	I.2170	
27.761	0.0737	9.5066	0.8594	I.0569 _n	I.2113	
28.759	0.0764	9.5076	0.8587	I.0668 _n	I.2053	
29.756	0.0792	9.5088	0.8590	I.0763 _n	I.1991	
30.753	0.0819	9.5106	0.8602	I.0855 _n	I.1927	
31.750	0.0846	9.5134	0.8617	I.0944 _n	I.1860	
Febr. 1.748	0.0874	9.5172	0.8632	I.1029 _n	I.1791	
2.745	0.0901	9.5218	0.8640	I.1111 _n	I.1720	
3.742	0.0928	9.5270	0.8640	I.1191 _n	I.1646	
4.740	0.0956	9.5323	0.8629	I.1268 _n	I.1570	
5.737	0.0983	9.5372	0.8608	I.1341 _n	I.1490	
6.734	0.1010	9.5413	0.8579	I.1413 _n	I.1408	

Constanten für die Stern - Tage 1902,
gültig für die Sternzeit-Epochen 14^h 42^m.5 Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Febr. 6.734	0.1010	9.5413	0.8579	I.1413 _n	I.1408	
7.731	0.1038	9.5444	0.8546	I.1482 _n	I.1323	
8.729	0.1065	9.5465	0.8515	I.1548 _n	I.1235	
9.726	0.1092	9.5478	0.8490	I.1612 _n	I.1144	
10.723	0.1120	9.5486	0.8474	I.1674 _n	I.1049	
11.720	0.1147	9.5494	0.8470	I.1734 _n	I.0951	
12.718	0.1174	9.5507	0.8477	I.1791 _n	I.0850	
13.715	0.1201	9.5527	0.8491	I.1847 _n	I.0744	
14.712	0.1229	9.5557	0.8507	I.1900 _n	I.0635	
15.709	0.1256	9.5596	0.8522	I.1952 _n	I.0521	
16.707	0.1283	9.5643	0.8530	I.2001 _n	I.0404	
17.704	0.1311	9.5692	0.8527	I.2048 _n	I.0281	
18.701	0.1338	9.5740	0.8514	I.2094 _n	I.0154	
19.699	0.1365	9.5782	0.8491	I.2138 _n	I.0022	
20.696	0.1393	9.5816	0.8461	I.2180 _n	0.9883	
21.693	0.1420	9.5838	0.8430	I.2220 _n	0.9740	
22.690	0.1447	9.5851	0.8401	I.2259 _n	0.9590	
23.688	0.1474	9.5855	0.8381	I.2296 _n	0.9433	
24.685	0.1502	9.5855	0.8371	I.2331 _n	0.9269	
25.682	0.1529	9.5854	0.8373	I.2365 _n	0.9097	
26.679	0.1556	9.5858	0.8385	I.2397 _n	0.8917	
27.677	0.1584	9.5869	0.8404	I.2427 _n	0.8728	
28.674	0.1611	9.5889	0.8424	I.2456 _n	0.8529	
März 1.671	0.1638	9.5917	0.8441	I.2483 _n	0.8319	
2.669	0.1666	9.5952	0.8449	I.2509 _n	0.8098	+6.453
3.666	0.1693	9.5989	0.8447	I.2534 _n	0.7863	+6.113
4.663	0.1720	9.6024	0.8435	I.2557 _n	0.7613	5.772
5.660	0.1747	9.6054	0.8413	I.2578 _n	0.7347	5.429
6.658	0.1775	9.6076	0.8386	I.2598 _n	0.7062	5.084
7.655	0.1802	9.6090	0.8358	I.2617 _n	0.6756	4.738
8.652	0.1829	9.6096	0.8336	I.2634 _n	0.6426	+4.391
9.649	0.1857	9.6098	0.8323	I.2650 _n	0.6067	4.043
10.647	0.1884	9.6098	0.8321	I.2665 _n	0.5674	3.693
11.644	0.1911	9.6100	0.8332	I.2678 _n	0.5241	3.343
12.641	0.1939	9.6108	0.8351	I.2690 _n	0.4759	2.992
13.639	0.1966	9.6124	0.8376	I.2700 _n	0.4216	+2.640
14.636	0.1993	9.6150	0.8401	I.2709 _n	0.3594	2.288
15.633	0.2021	9.6183	0.8421	I.2717 _n	0.2866	1.935

$$E = +0.03$$

Constanten für die Stern - Tage 1902,
gültig für die Sternzeit-Epochen 14^h 42^m.5 Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
März 15.633	0.2021	9.6183	0.8421	1.2717 _n	0.2866	+1.935
16.630	0.2048	9.6221	0.8431	1.2724 _n	0.1990	1.581
17.628	0.2075	9.6259	0.8431	1.2729 _n	0.0891	1.228
18.625	0.2102	9.6294	0.8421	1.2733 _n	9.9415	0.874
19.622	0.2130	9.6323	0.8402	1.2735 _n	9.7162	0.520
20.619	0.2157	9.6343	0.8380	1.2737 _n	9.2213	+0.166
21.617	0.2184	9.6354	0.8359	1.2737 _n	9.2723 _n	-0.187
22.614	0.2212	9.6356	0.8345	1.2735 _n	9.7328 _n	0.541
23.611	0.2239	9.6354	0.8340	1.2733 _n	9.9511 _n	0.894
24.608	0.2266	9.6351	0.8348	1.2729 _n	0.0956 _n	1.246
25.606	0.2294	9.6349	0.8367	1.2723 _n	0.2036 _n	-1.598
26.603	0.2321	9.6354	0.8394	1.2717 _n	0.2899 _n	1.949
27.600	0.2348	9.6366	0.8425	1.2709 _n	0.3617 _n	2.300
28.598	0.2375	9.6387	0.8454	1.2700 _n	0.4231 _n	2.649
29.595	0.2403	9.6414	0.8477	1.2690 _n	0.4768 _n	2.998
30.592	0.2430	9.6445	0.8490	1.2678 _n	0.5245 _n	-3.346
31.589	0.2457	9.6476	0.8492	1.2665 _n	0.5673 _n	3.692
April 1.587	0.2485	9.6504	0.8484	1.2651 _n	0.6061 _n	4.037
2.584	0.2512	9.6527	0.8469	1.2635 _n	0.6416 _n	4.381
3.581	0.2539	9.6542	0.8453	1.2618 _n	0.6742 _n	4.723
4.578	0.2567	9.6550	0.8439	1.2600 _n	0.7045 _n	-5.064
5.576	0.2594	9.6552	0.8433	1.2580 _n	0.7326 _n	5.403
6.573	0.2621	9.6553	0.8437	1.2559 _n	0.7589 _n	5.740
7.570	0.2649	9.6554	0.8453	1.2537 _n	0.7835 _n	6.075
8.568	0.2676	9.6560	0.8480	1.2513 _n	0.8067 _n	6.408
9.565	0.2703	9.6572	0.8513	1.2488 _n	0.8286 _n	
10.562	0.2730	9.6593	0.8548	1.2461 _n	0.8493 _n	
11.559	0.2758	9.6623	0.8579	1.2433 _n	0.8690 _n	
12.557	0.2785	9.6657	0.8603	1.2404 _n	0.8876 _n	
13.554	0.2812	9.6694	0.8617	1.2373 _n	0.9054 _n	
14.551	0.2840	9.6730	0.8620	1.2340 _n	0.9223 _n	
15.548	0.2867	9.6761	0.8614	1.2306 _n	0.9385 _n	
16.546	0.2894	9.6785	0.8603	1.2271 _n	0.9539 _n	
17.543	0.2922	9.6801	0.8591	1.2234 _n	0.9687 _n	
18.540	0.2949	9.6810	0.8583	1.2196 _n	0.9829 _n	
19.537	0.2976	9.6813	0.8584	1.2156 _n	0.9965 _n	
20.535	0.3003	9.6813	0.8595	1.2114 _n	1.0095 _n	
21.532	0.3031	9.6815	0.8617	1.2071 _n	1.0221 _n	

Constanten für die Stern - Tage 1902,
gültig für die Sternzeit-Epochen 14^h 42^m.5 Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D
April 21.532	0.3031	9.6815	0.8617	1.2071 _n	1.0221 _n
22.529	0.3058	9.6821	0.8649	1.2026 _n	1.0341 _n
23.527	0.3085	9.6833	0.8684	1.1979 _n	1.0457 _n
24.524	0.3113	9.6853	0.8720	1.1930 _n	1.0569 _n
25.521	0.3140	9.6880	0.8751	1.1880 _n	1.0677 _n
26.518	0.3167	9.6911	0.8774	1.1828 _n	1.0781 _n
27.516	0.3195	9.6944	0.8787	1.1774 _n	1.0881 _n
28.513	0.3222	9.6976	0.8789	1.1718 _n	1.0978 _n
29.510	0.3249	9.7003	0.8784	1.1661 _n	1.1071 _n
30.507	0.3277	9.7024	0.8774	1.1601 _n	1.1161 _n
Mai 1.505	0.3304	9.7038	0.8766	1.1539 _n	1.1248 _n
2.502	0.3331	9.7047	0.8762	1.1475 _n	1.1332 _n
3.499	0.3358	9.7053	0.8767	1.1409 _n	1.1413 _n
4.497	0.3386	9.7059	0.8782	1.1340 _n	1.1492 _n
5.494	0.3413	9.7068	0.8808	1.1270 _n	1.1567 _n
6.491	0.3440	9.7082	0.8841	1.1197 _n	1.1640 _n
7.488	0.3468	9.7103	0.8876	1.1121 _n	1.1711 _n
8.486	0.3495	9.7132	0.8911	1.1043 _n	1.1780 _n
9.483	0.3522	9.7167	0.8939	1.0962 _n	1.1846 _n
10.480	0.3550	9.7205	0.8958	1.0879 _n	1.1910 _n
11.477	0.3577	9.7244	0.8967	1.0792 _n	1.1971 _n
12.475	0.3604	9.7279	0.8967	1.0703 _n	1.2031 _n
13.472	0.3631	9.7309	0.8960	1.0611 _n	1.2088 _n
14.469	0.3659	9.7332	0.8951	1.0515 _n	1.2144 _n
15.466	0.3686	9.7348	0.8943	1.0416 _n	1.2198 _n
16.464	0.3713	9.7358	0.8941	1.0313 _n	1.2249 _n
17.461	0.3741	9.7365	0.8948	1.0207 _n	1.2299 _n
18.458	0.3768	9.7372	0.8965	1.0097 _n	1.2347 _n
19.456	0.3795	9.7381	0.8991	0.9983 _n	1.2394 _n
20.453	0.3823	9.7396	0.9022	0.9865 _n	1.2438 _n
21.450	0.3850	9.7416	0.9056	0.9742 _n	1.2481 _n
22.447	0.3877	9.7443	0.9086	0.9614 _n	1.2523 _n
23.445	0.3904	9.7475	0.9109	0.9481 _n	1.2562 _n
24.442	0.3932	9.7509	0.9123	0.9343 _n	1.2601 _n
25.439	0.3959	9.7543	0.9127	0.9199 _n	1.2637 _n
26.436	0.3986	9.7574	0.9123	0.9049 _n	1.2672 _n
27.434	0.4014	9.7600	0.9113	0.8892 _n	1.2706 _n
28.431	0.4041	9.7620	0.9101	0.8728 _n	1.2738 _n

Constanten für die Stern - Tage 1902,
gültig für die Sternzeit-Epochen $14^h 42^m.5$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	C	
Mai	28.431	0.4041	9.7620	0.9101	0.8728 _n	1.2738 _n	-7.462
	29.428	0.4068	9.7635	0.9093	0.8557 _n	1.2769 _n	7.173
	30.426	0.4096	9.7646	0.9091	0.8378 _n	1.2798 _n	6.883
Juni	31.423	0.4123	9.7655	0.9098	0.8189 _n	1.2826 _n	6.590
	1.420	0.4150	9.7667	0.9114	0.7991 _n	1.2852 _n	6.296
	2.417	0.4178	9.7682	0.9138	0.7782 _n	1.2877 _n	-6.000
	3.415	0.4205	9.7703	0.9167	0.7561 _n	1.2901 _n	5.703
	4.412	0.4232	9.7730	0.9196	0.7327 _n	1.2923 _n	5.404
	5.409	0.4259	9.7763	0.9220	0.7079 _n	1.2945 _n	5.104
	6.406	0.4287	9.7799	0.9237	0.6814 _n	1.2964 _n	4.802
	7.404	0.4314	9.7837	0.9245	0.6532 _n	1.2983 _n	-4.499
	8.401	0.4341	9.7873	0.9242	0.6228 _n	1.3000 _n	4.195
	9.398	0.4369	9.7906	0.9233	0.5900 _n	1.3016 _n	3.890
	10.396	0.4396	9.7932	0.9218	0.5544 _n	1.3031 _n	3.584
	11.393	0.4423	9.7952	0.9204	0.5155 _n	1.3044 _n	3.277
	12.390	0.4451	9.7966	0.9193	0.4726 _n	1.3056 _n	-2.969
	13.387	0.4478	9.7977	0.9190	0.4249 _n	1.3067 _n	2.660
	14.385	0.4505	9.7986	0.9196	0.3713 _n	1.3077 _n	2.351
	15.382	0.4532	9.7996	0.9211	0.3099 _n	1.3085 _n	2.041
	16.379	0.4560	9.8009	0.9232	0.2382 _n	1.3093 _n	1.730
	17.376	0.4587	9.8028	0.9257	0.1521 _n	1.3099 _n	-1.419
	18.374	0.4614	9.8052	0.9280	0.0446 _n	1.3104 _n	1.108
	19.371	0.4642	9.8081	0.9298	9.9013 _n	1.3107 _n	0.797
	20.368	0.4669	9.8112	0.9308	9.6858 _n	1.3110 _n	0.485
	21.365	0.4696	9.8144	0.9309	9.2389 _n	1.3111 _n	-0.173
	22.363	0.4724	9.8174	0.9300	9.1415	1.3111 _n	+0.139
	23.360	0.4751	9.8201	0.9284	9.6534	1.3110 _n	0.450
	24.357	0.4778	9.8222	0.9265	9.8818	1.3108 _n	0.762
	25.355	0.4806	9.8238	0.9247	0.0306	1.3104 _n	1.073
	26.352	0.4833	9.8250	0.9235	0.1412	1.3099 _n	1.384
27.349	0.4860	9.8260	0.9230	0.2291	1.3093 _n	+1.695	
28.346	0.4887	9.8269	0.9234	0.3021	1.3086 _n	2.005	
29.344	0.4915	9.8282	0.9247	0.3645	1.3078 _n	2.315	
30.341	0.4942	9.8298	0.9265	0.4189	1.3068 _n	2.623	
Juli	1.338	0.4969	9.8321	0.9286	0.4671	1.3058 _n	2.932
	2.335	0.4997	9.8348	0.9303	0.5104	1.3046 _n	+3.239
	3.333	0.5024	9.8379	0.9315	0.5496	1.3032 _n	3.545
	4.330	0.5051	9.8413	0.9318	0.5856	1.3018 _n	3.851

Constanten für die Stern - Tage 1902,
gültig für die Sternzeit-Epochen 14^h 42^m.5 Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	C
Juli 4.330	0.5051	9.8413	0.9318	0.5856	I.3018 _n	+3.851
5.327	0.5079	9.8445	0.9311	0.6186	I.3002 _n	4.155
6.325	0.5106	9.8475	0.9296	0.6492	I.2985 _n	4.459
7.322	0.5133	9.8500	0.9275	0.6777	I.2967 _n	4.761
8.319	0.5160	9.8519	0.9252	0.7043	I.2947 _n	5.061
9.316	0.5188	9.8533	0.9231	0.7292	I.2927 _n	+5.361
10.314	0.5215	9.8543	0.9216	0.7527	I.2904 _n	5.659
11.311	0.5242	9.8550	0.9210	0.7749	I.2881 _n	5.955
12.308	0.5270	9.8557	0.9213	0.7959	I.2856 _n	6.250
13.305	0.5297	9.8567	0.9224	0.8158	I.2830 _n	6.543
14.303	0.5324	9.8580	0.9240	0.8347	I.2803 _n	
15.300	0.5352	9.8598	0.9256	0.8527	I.2774 _n	
16.297	0.5379	9.8621	0.9269	0.8699	I.2744 _n	
17.294	0.5406	9.8646	0.9275	0.8863	I.2712 _n	
18.292	0.5433	9.8673	0.9271	0.9020	I.2679 _n	
19.289	0.5461	9.8698	0.9258	0.9170	I.2644 _n	
20.286	0.5488	9.8721	0.9238	0.9315	I.2608 _n	
21.284	0.5515	9.8739	0.9212	0.9453	I.2570 _n	
22.281	0.5543	9.8753	0.9186	0.9586	I.2531 _n	
23.278	0.5570	9.8762	0.9163	0.9714	I.2490 _n	
24.275	0.5597	9.8769	0.9147	0.9837	I.2448 _n	
25.273	0.5625	9.8775	0.9141	0.9956	I.2404 _n	
26.270	0.5652	9.8782	0.9144	I.0070	I.2359 _n	
27.267	0.5679	9.8793	0.9155	I.0181	I.2311 _n	
28.264	0.5707	9.8808	0.9169	I.0287	I.2262 _n	
29.262	0.5734	9.8827	0.9182	I.0390	I.2211 _n	
30.259	0.5761	9.8851	0.9191	I.0489	I.2159 _n	
31.256	0.5789	9.8877	0.9192	I.0584	I.2104 _n	
Aug. 1.254	0.5816	9.8904	0.9184	I.0677	I.2047 _n	
2.251	0.5843	9.8928	0.9166	I.0767	I.1989 _n	
3.248	0.5870	9.8950	0.9141	I.0853	I.1928 _n	
4.245	0.5898	9.8966	0.9112	I.0937	I.1866 _n	
5.243	0.5925	9.8977	0.9085	I.1018	I.1801 _n	
6.240	0.5952	9.8984	0.9062	I.1096	I.1734 _n	
7.237	0.5980	9.8988	0.9048	I.1172	I.1665 _n	
8.234	0.6007	9.8990	0.9043	I.1245	I.1593 _n	
9.232	0.6034	9.8994	0.9048	I.1316	I.1519 _n	
10.229	0.6062	9.9001	0.9059	I.1384	I.1442 _n	

Constanten für die Stern - Tage 1902,
gültig für die Sternzeit-Epochen 14^h 42^m.5 Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Aug. 10.229	0.6062	9.9001	0.9059	I.1384	I.1442 _n	
11.226	0.6089	9.9012	0.9073	I.1450	I.1363 _n	
12.223	0.6116	9.9027	0.9086	I.1515	I.1280 _n	
13.221	0.6143	9.9046	0.9092	I.1577	I.1195 _n	
14.218	0.6171	9.9066	0.9090	I.1637	I.1108 _n	
15.215	0.6198	9.9086	0.9078	I.1695	I.1017 _n	
16.213	0.6225	9.9104	0.9058	I.1751	I.0923 _n	
17.210	0.6253	9.9118	0.9031	I.1805	I.0825 _n	
18.207	0.6280	9.9129	0.9002	I.1857	I.0724 _n	
19.204	0.6307	9.9135	0.8975	I.1908	I.0619 _n	
20.202	0.6335	9.9138	0.8955	I.1956	I.0510 _n	
21.199	0.6362	9.9139	0.8944	I.2003	I.0398 _n	
22.196	0.6389	9.9141	0.8943	I.2049	I.0280 _n	
23.193	0.6417	9.9146	0.8951	I.2092	I.0159 _n	
24.191	0.6444	9.9154	0.8965	I.2134	I.0032 _n	
25.188	0.6471	9.9166	0.8981	I.2175	0.9901 _n	
26.185	0.6498	9.9183	0.8994	I.2214	0.9764 _n	
27.183	0.6526	9.9203	0.9000	I.2251	0.9621 _n	
28.180	0.6553	9.9224	0.8997	I.2287	0.9472 _n	
29.177	0.6580	9.9244	0.8984	I.2321	0.9316 _n	
30.174	0.6608	9.9261	0.8962	I.2354	0.9154 _n	
31.172	0.6635	9.9275	0.8936	I.2385	0.8983 _n	
Sept. 1.169	0.6662	9.9283	0.8909	I.2415	0.8804 _n	
2.166	0.6690	9.9288	0.8886	I.2444	0.8616 _n	
3.163	0.6717	9.9289	0.8871	I.2471	0.8419 _n	
4.161	0.6744	9.9288	0.8865	I.2497	0.8210 _n	-6.622
5.158	0.6771	9.9288	0.8871	I.2521	0.7989 _n	6.294
6.155	0.6799	9.9290	0.8885	I.2544	0.7756 _n	5.964
7.152	0.6826	9.9295	0.8903	I.2566	0.7507 _n	5.633
8.150	0.6853	9.9305	0.8922	I.2586	0.7242 _n	5.299
9.147	0.6881	9.9318	0.8937	I.2605	0.6958 _n	-4.964
10.144	0.6908	9.9333	0.8943	I.2623	0.6653 _n	4.627
11.142	0.6935	9.9349	0.8941	I.2639	0.6323 _n	4.289
12.139	0.6963	9.9364	0.8928	I.2654	0.5965 _n	3.949
13.136	0.6990	9.9377	0.8909	I.2668	0.5573 _n	3.608
14.133	0.7017	9.9385	0.8885	I.2681	0.5141 _n	-3.266
15.131	0.7045	9.9390	0.8863	I.2692	0.4658 _n	2.923
16.128	0.7072	9.9391	0.8846	I.2702	0.4114 _n	2.579

Constanten für die Stern - Tage 1902,
gültig für die Sternzeit-Epochen 14^h 42^m.5 Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Sept. 16.128	0.7072	9.9391	0.8846	1.2702	0.4114 _n	-2.579
17.125	0.7099	9.9390	0.8838	1.2711	0.3489 _n	2.233
18.122	0.7126	9.9389	0.8840	1.2718	0.2758 _n	1.887
19.120	0.7154	9.9390	0.8853	1.2724	0.1876 _n	1.540
20.117	0.7181	9.9394	0.8873	1.2729	0.0765 _n	1.193
21.114	0.7208	9.9402	0.8897	1.2733	9.9267 _n	-0.845
22.112	0.7236	9.9414	0.8919	1.2735	9.6958 _n	0.496
23.109	0.7263	9.9430	0.8936	1.2737	9.1688 _n	-0.147
24.106	0.7290	9.9448	0.8945	1.2737	9.3043	+0.202
25.103	0.7318	9.9466	0.8944	1.2735	9.7409	0.551
26.101	0.7345	9.9483	0.8934	1.2733	9.9542	+0.900
27.098	0.7372	9.9496	0.8917	1.2729	0.0966	1.249
28.095	0.7400	9.9505	0.8899	1.2723	0.2036	1.598
29.092	0.7427	9.9510	0.8882	1.2717	0.2893	1.947
30.090	0.7454	9.9511	0.8873	1.2709	0.3608	2.295
Oct. 1.087	0.7481	9.9510	0.8872	1.2700	0.4221	+2.643
2.084	0.7509	9.9509	0.8883	1.2690	0.4757	2.990
3.081	0.7536	9.9509	0.8903	1.2678	0.5233	3.337
4.079	0.7563	9.9513	0.8929	1.2665	0.5662	3.683
5.076	0.7591	9.9520	0.8957	1.2651	0.6051	4.028
6.073	0.7618	9.9531	0.8983	1.2635	0.6407	+4.372
7.071	0.7645	9.9545	0.9002	1.2618	0.6734	4.715
8.068	0.7673	9.9560	0.9013	1.2600	0.7038	5.056
9.065	0.7700	9.9575	0.9013	1.2580	0.7321	5.397
10.062	0.7727	9.9588	0.9006	1.2559	0.7586	5.736
11.060	0.7754	9.9599	0.8993	1.2537	0.7834	+6.073
12.057	0.7782	9.9605	0.8979	1.2513	0.8068	6.409
13.054	0.7809	9.9608	0.8969	1.2487	0.8289	
14.051	0.7836	9.9609	0.8966	1.2460	0.8498	
15.049	0.7864	9.9608	0.8974	1.2432	0.8696	
16.046	0.7891	9.9609	0.8991	1.2402	0.8884	
17.043	0.7918	9.9613	0.9017	1.2371	0.9064	
18.041	0.7946	9.9620	0.9048	1.2338	0.9235	
19.038	0.7973	9.9632	0.9079	1.2303	0.9398	
20.035	0.8000	9.9647	0.9106	1.2267	0.9555	
21.032	0.8028	9.9665	0.9126	1.2230	0.9705	
22.030	0.8055	9.9685	0.9137	1.2190	0.9848	
23.027	0.8082	9.9703	0.9138	1.2149	0.9986	

$$E = +0.02$$

Constanten für die Stern - Tage 1902,
gültig für die Sternzeit-Epochen 14^h 42^m.5 Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D
Oct. 23.027	0.8082	9.9703	0.9138	1.2149	0.9986
24.024	0.8109	9.9719	0.9132	1.2106	1.0118
25.021	0.8137	9.9731	0.9122	1.2062	1.0246
26.019	0.8164	9.9739	0.9113	1.2015	1.0368
27.016	0.8191	9.9744	0.9108	1.1967	1.0486
28.013	0.8219	9.9746	0.9111	1.1917	1.0600
29.011	0.8246	9.9748	0.9123	1.1864	1.0709
30.008	0.8273	9.9750	0.9145	1.1810	1.0815
31.005	0.8301	9.9755	0.9175	1.1754	1.0916
Nov. 1.002	0.8328	9.9763	0.9207	1.1696	1.1015
2.000	0.8355	9.9775	0.9239	1.1636	1.1109
2.997	0.8382	9.9790	0.9265	1.1573	1.1201
3.994	0.8410	9.9807	0.9284	1.1508	1.1289
4.991	0.8437	9.9825	0.9293	1.1441	1.1375
5.989	0.8464	9.9841	0.9293	1.1371	1.1457
6.986	0.8492	9.9855	0.9287	1.1299	1.1537
7.983	0.8519	9.9866	0.9278	1.1224	1.1614
8.980	0.8546	9.9873	0.9271	1.1146	1.1688
9.978	0.8574	9.9877	0.9269	1.1066	1.1760
10.975	0.8601	9.9881	0.9275	1.0982	1.1830
11.972	0.8628	9.9884	0.9291	1.0896	1.1897
12.970	0.8656	9.9890	0.9315	1.0807	1.1961
13.967	0.8683	9.9899	0.9345	1.0714	1.2024
14.964	0.8710	9.9911	0.9376	1.0618	1.2084
15.961	0.8737	9.9928	0.9405	1.0518	1.2142
16.959	0.8765	9.9948	0.9429	1.0414	1.2198
17.956	0.8792	9.9969	0.9443	1.0307	1.2253
18.953	0.8819	9.9990	0.9449	1.0195	1.2305
19.950	0.8847	0.0010	0.9446	1.0079	1.2355
20.948	0.8874	0.0026	0.9438	0.9959	1.2403
21.945	0.8901	0.0039	0.9429	0.9833	1.2450
22.942	0.8929	0.0048	0.9422	0.9702	1.2494
23.940	0.8956	0.0055	0.9421	0.9566	1.2537
24.937	0.8983	0.0060	0.9428	0.9424	1.2578
25.934	0.9010	0.0065	0.9444	0.9276	1.2618
26.931	0.9038	0.0072	0.9467	0.9121	1.2656
27.929	0.9065	0.0082	0.9495	0.8959	1.2692
28.926	0.9092	0.0095	0.9523	0.8789	1.2726

Constanten für die Stern - Tage 1902,
gültig für die Sternzeit-Epochen 14^h 42^m.5 Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	C
Nov. 28.926	0.9092	0.0095	0.9523	0.8789	1.2726	
29.923	0.9120	0.0111	0.9548	0.8611	1.2759	
30.920	0.9147	0.0130	0.9565	0.8423	1.2791	
Dec. 1.918	0.9174	0.0150	0.9575	0.8226	1.2820	
2.915	0.9202	0.0169	0.9575	0.8018	1.2849	+6.335
3.912	0.9229	0.0186	0.9568	0.7798	1.2876	+6.022
4.909	0.9256	0.0200	0.9556	0.7564	1.2901	5.707
5.907	0.9284	0.0211	0.9544	0.7316	1.2924	5.390
6.904	0.9311	0.0219	0.9535	0.7051	1.2947	5.071
7.901	0.9338	0.0225	0.9533	0.6767	1.2968	4.750
8.899	0.9365	0.0231	0.9540	0.6462	1.2987	+4.428
9.896	0.9393	0.0238	0.9554	0.6133	1.3005	4.105
10.893	0.9420	0.0248	0.9575	0.5775	1.3021	3.780
11.890	0.9447	0.0260	0.9599	0.5383	1.3036	3.454
12.888	0.9475	0.0277	0.9622	0.4951	1.3050	3.127
13.885	0.9502	0.0297	0.9641	0.4469	1.3062	+2.798
14.882	0.9529	0.0318	0.9652	0.3925	1.3073	2.469
15.879	0.9557	0.0340	0.9654	0.3302	1.3083	2.139
16.877	0.9584	0.0361	0.9648	0.2572	1.3091	1.808
17.874	0.9611	0.0380	0.9635	0.1692	1.3098	1.477
18.871	0.9638	0.0395	0.9619	0.0586	1.3103	+1.145
19.869	0.9666	0.0407	0.9604	9.9096	1.3107	0.812
20.866	0.9693	0.0415	0.9593	9.6808	1.3110	0.480
21.863	0.9720	0.0422	0.9589	9.1661	1.3111	+0.147
22.860	0.9748	0.0428	0.9593	9.2704 _n	1.3111	-0.186
23.858	0.9775	0.0435	0.9605	9.7154 _n	1.3109	-0.519
24.855	0.9802	0.0444	0.9623	9.9305 _n	1.3107	0.852
25.852	0.9830	0.0457	0.9642	0.0736 _n	1.3103	1.185
26.849	0.9857	0.0472	0.9660	0.1810 _n	1.3097	1.517
27.847	0.9884	0.0489	0.9671	0.2669 _n	1.3090	1.849
28.844	0.9911	0.0508	0.9676	0.3385 _n	1.3082	-2.180
29.841	0.9939	0.0527	0.9671	0.3998 _n	1.3072	2.510
30.838	0.9966	0.0544	0.9658	0.4534 _n	1.3061	2.840
31.836	0.9993	0.0559	0.9639	0.5009 _n	1.3048	3.169
32.833	1.0021	0.0570	0.9618	0.5437 _n	1.3035	3.497
33.830	1.0048	0.0579	0.9599	0.5825 _n	1.3019	-3.824
34.828	1.0075	0.0585	0.9586	0.6180 _n	1.3003	4.149
35.825	1.0103	0.0591	0.9580	0.6507 _n	1.2984	4.474

$$E = +0.02$$

Constanten für die mittleren Tage 1902,

zur Reduction von dem Mittl. Aequin. 1900.0 auf das jedesmalige wahre Aequinoctium.

12 ^h Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	12 ^h Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>
1901 Dec. 29	+102.66	1.65586	9° 35.8	April 24	+114.68	1.70260	8° 27.0
1902 Jan. 2	103.28	1.65843	9 32.1	28	115.08	1.70420	8 31.3
6	103.90	1.66092	9 27.8	Mai 2	115.50	1.70587	8 35.7
10	104.50	1.66333	9 22.9	6	115.94	1.70762	8 40.0
14	105.09	1.66566	9 17.4	10	116.40	1.70943	8 44.2
18	+105.66	1.66790	9 11.5	14	+116.89	1.71131	8 48.1
22	106.21	1.67003	9 5.3	18	117.39	1.71325	8 51.7
26	106.74	1.67206	8 59.0	22	117.91	1.71524	8 54.9
30	107.25	1.67399	8 52.6	26	118.45	1.71728	8 57.6
Febr. 3	107.73	1.67582	8 46.2	30	119.01	1.71935	8 59.9
7	+108.19	1.67755	8 40.0	Juni 3	+119.58	1.72145	9 1.6
11	108.63	1.67918	8 34.0	7	120.16	1.72357	9 2.7
15	109.04	1.68072	8 28.3	11	120.75	1.72570	9 3.2
19	109.43	1.68217	8 23.1	15	121.34	1.72784	9 3.0
23	109.80	1.68355	8 18.4	19	121.94	1.72996	9 2.2
27	+110.15	1.68486	8 14.3	23	+122.54	1.73206	9 0.8
März 3	110.49	1.68612	8 10.9	27	123.14	1.73414	8 58.8
7	110.81	1.68734	8 8.2	Juli 1	123.73	1.73618	8 56.3
11	111.12	1.68852	8 6.1	5	124.32	1.73818	8 53.2
15	111.42	1.68968	8 4.8	9	124.90	1.74013	8 49.7
19	+111.72	1.69084	8 4.3	13	+125.47	1.74203	8 45.7
23	112.02	1.69200	8 4.5	17	126.02	1.74387	8 41.3
27	112.32	1.69317	8 5.4	21	126.56	1.74564	8 36.6
31	112.62	1.69437	8 7.0	25	127.08	1.74733	8 31.8
April 4	112.93	1.69561	8 9.2	29	127.58	1.74895	8 26.8
8	+113.25	1.69689	8 12.0	Aug. 2	+128.07	1.75049	8 21.6
12	113.58	1.69822	8 15.2	6	128.54	1.75196	8 16.4
16	113.93	1.69961	8 18.8	10	128.98	1.75337	8 11.4
20	114.29	1.70107	8 22.8	14	129.40	1.75470	8 6.5
24	114.68	1.70260	8 27.0	18	129.80	1.75597	8 1.8

Constanten für die mittleren Tage 1902,

zur Reduction von dem Mittl. Aequin. 1900.0 auf das jedesmalige wahre Aequinoctium.

12 ^h Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>	12 ^h Mittl. Zeit	<i>f</i>	log. <i>g</i>	<i>G</i>
Aug. 18	+129.80	1.75597	8° 1.8	Oct. 29	+135.71	1.77526	7° 58.4
22	130.18	1.75717	7 57.4	Nov. 2	136.12	1.77665	8 2.1
26	130.55	1.75832	7 53.3	6	136.56	1.77811	8 5.8
30	130.90	1.75942	7 49.6	10	137.02	1.77963	8 9.4
Sept. 3	131.23	1.76046	7 46.5	14	137.50	1.78122	8 12.8
7	+131.55	1.76147	7 43.9	18	+138.00	1.78287	8 16.0
11	131.86	1.76245	7 41.7	22	138.53	1.78457	8 18.8
15	132.16	1.76341	7 40.1	26	139.08	1.78633	8 21.3
19	132.45	1.76435	7 39.2	30	139.65	1.78814	8 23.3
23	132.74	1.76530	7 38.9	Dec. 4	140.24	1.78998	8 24.8
27	+133.03	1.76626	7 39.1	8	+140.84	1.79185	8 25.7
Oct. 1	133.33	1.76724	7 39.9	12	141.45	1.79373	8 26.0
5	133.63	1.76824	7 41.3	16	142.06	1.79562	8 25.7
9	133.94	1.76928	7 43.2	20	142.68	1.79750	8 24.8
13	134.26	1.77036	7 45.6	24	143.31	1.79937	8 23.3
17	+134.60	1.77149	7 48.4	28	+143.93	1.80122	8 21.2
21	134.95	1.77268	7 51.5	32	144.55	1.80303	8 18.6
25	135.32	1.77394	7 54.8	36	145.16	1.80480	8 15.4
29	135.71	1.77526	7 58.4	40	145.76	1.80652	8 11.8

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

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

Im Jahre 1902 werden drei Sonnen-Finsternisse und zwei Mond-Finsternisse stattfinden, von denen in unseren Gegenden die dritte Sonnen-Finsternis und die beiden Mond-Finsternisse sichtbar sein werden.

I. Partielle Sonnen-Finsternis 1902 April 8,
unsichtbar in Berlin.

Elemente der Finsternis
nach wahrer Berliner Zeit τ .

	^h ^m ^s 0 17 1.1	^h ^m ^s 1 29 2.0	^h ^m ^s 2 41 2.8	^h ^m ^s 3 53 3.7	^h ^m ^s 5 5 4.5
τ	4°.2547	22°.2582	40°.2617	58°.2653	76°.2688
$\lambda \odot$	16° 20' 5.5"	17° 3' 44.4"	17° 47' 25.3"	18° 31' 8.3"	19° 14' 53.2"
$\beta \odot$	+ 1 38 3.6	+ 1 34 13.6	+ 1 30 22.5	+ 1 26 30.3	+ 1 22 37.1
$\pi \odot$	0 59 58.02	0 59 59.56	1 0 1.04	1 0 2.49	1 0 3.93
$\Delta \alpha' \odot$	- 0 0 16.67	- 0 0 10.89	- 0 0 5.11	+ 0 0 0.68	+ 0 0 6.47
$\delta' \odot$	+ 6 56 43.9	+ 6 57 49.7	+ 6 58 55.4	+ 7 0 1.2	+ 7 1 6.9
N'	72 59 31.1	73 0 22.0	73 1 15.0	73 2 10.1	73 3 7.3
γ	+1.502140	+1.502117	+1.502093	+1.502067	+1.502040
u'_a	+0.539947	+0.539893	+0.539806	+0.539684	+0.539524
u'_i	+0.006428	+0.006481	+0.006568	+0.006690	+0.006849
$\log \sin f_a$	7.669114	7.669108	7.669101	7.669095	7.669088
$\log \sin f_i$	7.666944 _n	7.666937 _n	7.666931 _n	7.666924 _n	7.666917 _n
$\log n$	9.755429	9.755477	9.755508	9.755521	9.755513
μ	44°.1525	44°.1582	44°.1644	44°.1711	44°.1784
k	73° 7' 13.9"	73° 8' 6.8"	73° 9' 1.8"	73° 9' 58.9"	73° 10' 58.1"
g	18 19 57.6	18 19 34.9	18 19 10.3	18 18 43.8	18 18 15.5
K	87 52 53.9	87 52 40.7	87 52 27.8	87 52 15.2	87 52 3.0
G	21 34 13.7	21 38 20.5	21 42 30.2	21 46 42.6	21 50 57.8

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Beginn der Finsternis	2 ^h 24 ^m 3 ^s	234° 0'	+59° 53'
Ende der Finsternis	3 32.8	172 30	+80 51

Größe der Verfinsterung in Theilen des Sonnendurchmessers = 0.071

Da die Finsternis nur in nördlichen Polargegenden sichtbar sein wird, erscheinen nähere Angaben über die Grenzen der Sichtbarkeit nicht geboten.

II. Totale Mond-Finsterniß 1902 April 22,
theilweise sichtbar in Berlin.

Elemente der Finsterniß
nach mittlerer Berliner Zeit.

♁ in AR April 22	^h 7 ^m 54 ^s 29.9
☾ AR.	13 58 9.47
☾ Decl.	-12° 19' 26.0
☉ »	+12 4 17.2
☾ stündliche Bewegung in AR. .	30 3.1
☉ » » » » .	2 20.2
☾ » » » Decl. .	-7 51.0
☉ » » » » .	+ 50.6
☾ Aequatorial-Horizontal-Parallaxe	54 40.3
☉ » » » »	8.7
☾ Halbmesser	14 53.9
☉ »	15 54.3

Anfang der Finsterniß überhaupt	April 22	^h 5 ^m 53.9	mittl. Berl. Zt.
Anfang der totalen Verfinsterung		7 3.8	» » »
Mitte der Finsterniß		7 46.4	» » »
Ende der totalen Verfinsterung		8 29.0	» » »
Ende der Finsterniß überhaupt		9 38.9	» » »

Der Mond steht um diese Zeiten im Zenith der Orte, deren geographische Lage bezüglich ist:

103° 39' östl. Länge von Greenwich	12° 4' südl. Br.
86 43 » » » »	12 13 » »
76 23 » » » »	12 18 » »
66 3 » » » »	12 24 » »
49 7 » » » »	12 33 » »

Positionswinkel des Eintritts vom Nordpunkt gezählt = 89°

» » Austritts » » » » = 300

Größe der Verfinsterung in Theilen des Monddurchmessers = 1.337

Die Finsterniß wird demnach in der westlichen Hälfte des großen Oceans, in Australien, Asien, Europa, Afrika, in der östlichen Hälfte des atlantischen Oceans und an der Ostspitze Südamerikas zu sehen sein. — In Berlin geht der Mond erst um 7^h 5^m, also bereits total verfinstert, auf.

III. Partielle Sonnen-Finsternis 1902 Mai 7,

unsichtbar in Berlin.

Elemente der Finsternis

nach wahrer Berliner Zeit τ .

	8 ^h 53 ^m 13.9 ^s	10 ^h 5 ^m 14.1 ^s	11 ^h 17 ^m 14.3 ^s	12 ^h 29 ^m 14.5 ^s	13 ^h 41 ^m 14.7 ^s
τ	133°.3078	151°.3087	169°.3095	187°.3104	205°.3112
$\lambda \odot$	44° 39' 2.4	45° 24' 8.7	46° 9' 16.3	46° 54' 25.3	47° 39' 35.6
$\beta \odot$	- 0 56 42.3	- 1 0 48.1	- 1 4 53.4	- 1 8 58.1	- 1 13 2.2
$\pi \odot$	1 1 0.40	1 1 1.30	1 1 2.15	1 1 2.96	1 1 3.73
$\Delta \alpha' \odot$	- 0 0 11.79	- 0 0 5.58	+ 0 0 0.64	+ 0 0 6.86	+ 0 0 13.08
$\delta' \odot$	+16 43 27.73	+16 44 16.52	+16 45 5.27	+16 45 53.98	+16 46 42.66
N'	78 50 6.7	78 50 29.5	78 50 51.9	78 51 13.6	78 51 34.1
γ	-1.083860	-1.083843	-1.083825	-1.083807	-1.083788
u'_a	+0.533372	+0.533372	+0.533336	+0.533263	+0.533153
u'_i	+0.012970	+0.012970	+0.013006	+0.013079	+0.013188
$\log \sin f_a$	7.665708	7.665703	7.665698	7.665692	7.665687
$\log \sin f_i$	7.663537 _n	7.663532 _n	7.663527 _n	7.663522 _n	7.663516 _n
$\log n$	9.763851	9.763891	9.763912	9.763914	9.763898
μ	172°.8599	172°.8630	172°.8664	172°.8700	172°.8739
k	79° 18' 47.3	79° 19' 11.9	79° 19' 36.1	79° 19' 59.6	79° 20' 22.0
g	20 1 10.9	20 1 38.8	20 2 6.9	20 2 35.4	20 3 4.5
K	86 44 57.6	86 44 55.2	86 44 52.7	86 44 50.0	86 44 47.0
G	55 33 19.8	55 35 31.7	55 37 42.2	55 39 50.7	55 41 56.4

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Beginn der Finsternis	9 ^h 36. ^m 2	160° 40'	-53° 12'
Ende der Finsternis	13 19.9	252 28	-32 37

Größe der Verfinsterung in Theilen des Sonnendurchmessers = 0.864

Grenzcurven für die Sichtbarkeit der Finsternifs.

Westl. Grenze		Nördl. Grenze		Oestl. Grenze	
O. L. Gr.	Br.	O. L. Gr.	Br.	O. L. Gr.	Br.
222° 14'	-70° 28'	145° 42'	-42° 53'	263° 25'	-21° 49'
195 50	73 46	154 54	39 50	267 47	24 10
180 52	73 24	166 11	35 22	270 20	28 34
163 51	70 54	176 16	30 41	271 59	34 10
151 57	66 26	185 17	26 3	272 43	40 23
145 13	60 55	193 33	21 46	272 30	46 46
142 6	55 9	201 27	18 9	271 9	52 52
141 28	49 44	209 22	15 29	268 40	58 8
142 43	45 23	217 38	13 59	266 1	61 33
145 42	-42 53	226 28	13 45	249 25	70 28
		236 7	14 46	219 1	-73 54
		246 47	16 57		
		263 25	-21 49		

Die südliche Grenzcurve ist imaginär.

Die Finsternifs wird daher auf Neu-Seeland und im südlichen Theil des großen Oceans sichtbar sein.

IV. Totale Mond-Finsternifs 1902 Oct. 16
 theilweise sichtbar in Berlin.

Elemente der Finsternifs
 nach mittlerer Berliner Zeit.

♁ in AR.	Oct. 16	19 ^h 3 ^m 48. ^s 0
☾ AR.		1 24 52.59
☾ Decl.		+9° 8' 52.8
☉ »		-8 55 20.6
☾ stündliche Bewegung in AR. .		34 34.7
☉ » » » » .		2 20.0
☾ » » » Decl. .		+10 6.4
☉ » » » » .		- 55.2
☾ Aequatorial-Horizontal-Parallaxe		59 13.2
☉ » » » » .		8.8
☾ Halbmesser		16 8.3
☉ »		16 3.2

Anfang der Finsternifs überhaupt .	Oct. 16	17 ^h 10. ^m 6	mittl. Berl. Zt.
Anfang der totalen Verfinsterung		18 12.2	» » »
Mitte der Finsternifs		18 57.0	» » »
Ende der totalen Verfinsterung		19 41.8	» » »
Ende der Finsternifs überhaupt		20 43.4	» » »

Der Mond steht um diese Zeiten im Zenith der Orte, deren geographische Lage bezüglich ist:

291 ^m 9' östl. Länge von Greenwich	8° 50'	nördl. Br.
276 17 » » » »	9 0	» »
265 29 » » » »	9 8	» »
254 42 » » » »	9 15	» »
239 50 » » » »	9 26	» »

Positionswinkel des Eintritts vom Nordpunkt gezählt = 86°
 » » Austritts » » » = 241

Gröfse der Verfinsterung in Theilen des Monddurchmessers = 1.463

Die Finsternifs wird demnach im westlichen Europa und Afrika, im atlantischen Ocean, in Amerika, im großen Ocean, an der Ostspitze Australiens und dem äußersten Nordosten Asiens sichtbar sein. — In Berlin geht der Mond bereits um 18^h 31^m, also noch vor der Mitte der Finsternifs, unter.

V. Partielle Sonnen-Finsternis 1902 Oct. 30,

sichtbar in Berlin.

Elemente der Finsternis

nach wahrer Berliner Zeit τ .

	19 ^h 21 ^m 14. ^s 9	20 ^h 33 ^m 15. ^s 1	21 ^h 45 ^m 15. ^s 2	22 ^h 57 ^m 15. ^s 3	24 ^h 9 ^m 15. ^s 5
τ	290°.3122	308°.3128	326°.3134	344°.3140	362°.3145
$\lambda(\odot)$	215° 55' 27.7	216° 32' 39.4	217° 9' 49.4	217° 46' 57.7	218° 24' 43
$\beta(\odot)$	+ 0 58 19.5	+ 1 1 41.7	+ 1 5 3.4	+ 1 8 24.4	+ 1 11 44.8
$\pi(\odot)$	0 55 19.71	0 55 18.39	0 55 17.09	0 55 15.80	0 55 14.51
$\Delta\alpha'(\odot)$	- 0 0 5.94	- 0 0 0.42	+ 0 0 5.10	+ 0 0 10.63	+ 0 0 16.15
$\delta'(\odot)$	-13.49 26.0	-13 50 23.7	-13 51 21.4	-13 52 19.1	-13 53 16.7
N'	103 27 56.6	103 27 38.8	103 27 21.1	103 27 3.6	103 26 46.6
γ	+1.155534	+1.155568	+1.155601	+1.155635	+1.155670
u'_a	+0.565189	+0.565340	+0.565459	+0.565548	+0.565608
u'_i	-0.018688	-0.018838	-0.018957	-0.019046	-0.019105
$\log \sin f_a$	7.673152	7.673158	7.673164	7.673170	7.673176
$\log \sin f_i$	7.670981 _n	7.670987 _n	7.670993 _n	7.670999 _n	7.671006 _n
$\log n$	9.714884	9.714880	9.714858	9.714822	9.714773
μ	317°.5375	317°.5411	317°.5444	317°.5474	317°.5503
k	103° 4' 7.2	103° 3' 46.6	103° 3' 26.2	103° 3' 6.0	103° 2' 46.1
g	19 12 22.6	19 12 51.1	19 13 19.7	19 13 48.5	19 14 17.7
K	86 43 31.1	86 43 22.9	86 43 14.1	86 43 5.1	86 42 56.1
G	224 56 21.0	224 58 57.5	225 1 33.7	225 4 9.1	225 6 43.4

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Breite

Beginn der Finsternis 18^h 52.2 18° 27' +58° 41'

Ende der Finsternis 22 55.8 107 1 +33 22

Größe der Verfinsterung in Theilen des Sonnendurchmessers = 0.701

Grenzcurven für die Sichtbarkeit der Finsterniß.

Westl. Grenze		Südl. Grenze		Oestl. Grenze	
O. L. Gr.	Br.	O. L. Gr.	Br.	O. L. Gr.	Br.
49° 4'	+76° 43'	2° 28'	+48° 22'	119° 7'	+22° 32'
23 14	75 5	11 47	45 47	120 35	23 3
8 44	71 20	22 58	41 56	123 37	25 13
1 24	66 53	32 55	37 41	126 15	28 30
357 58	62 19	41 41	33 14	128 27	32 37
356 50	57 58	49 34	28 49	130 13	37 21
357 13	54 6	56 57	24 43	131 30	42 32
358 42	50 57	64 21	21 14	132 10	48 5
1 7	48 52	72 9	18 43	131 59	54 2
2 28	+48 22	80 38	17 25	130 4	60 41
		90 0	17 25	117 49	71 14
		100 29	18 37	80 1	+76 50
		119 7	+22 32		

Die nördliche Grenzcurve ist imaginär.

Die Finsterniß erstreckt sich daher über das mittlere, nördliche und östliche Europa und über das Innere Asiens mit Einschluss der nördlichen und südöstlichen Küstengebiete dieses Erdtheils.

In der folgenden Uebersicht über die näheren Umstände der Finsterniß im mittleren Europa ist als Einheit von $\Delta\lambda$ die Zeitminute und die östliche Richtung positiv zu nehmen. Diejenigen Zeiten des Eintrittes, welche vor Sonnen-Aufgang liegen und welche zur genäherten Bestimmung der Zeit der größten Phase dienen können, sind durch ein * bezeichnet. Für Orte, welche der Grenze der Finsterniß sehr nahe liegen, wird die nachstehende Tafel naturgemäß nur verhältnißmäßig unsichere Werthe ergeben.



Grenzeurven der partiellen Sonnenfinsterniß 1902 October 30.

Polhöhe	Mittlere Ortszeit des Eintrittes	Positions-Winkel	Mittlere Ortszeit des Austrittes	Positions-Winkel	Größte Phase
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Länge von Berlin: -30^m

+48°	18 ^h 47.3 ^m 69	+ 0.46 $\Delta\lambda$	10.4	19 ^h 10.2 ^m 91	+ 1.81 $\Delta\lambda$	28.9	0.02
49	40.4* 43	+ 0.69 »	3.7	19.3 ^m 65	+ 1.57 »	35.3	0.04
50	36.1* 31	+ 0.77 »	359.0	25.8 ^m 53	+ 1.47 »	39.8	0.06
51	33.0* 23	+ 0.82 »	355.2	31.1 ^m 47	+ 1.42 »	43.4	0.08
52	30.7* 19	+ 0.85 »	351.9	35.8 ^m 42	+ 1.38 »	46.4	0.10
53	28.8* 15	+ 0.87 »	349.0	40.0 ^m 38	+ 1.36 »	49.0	0.13
54	27.3* 12	+ 0.89 »	346.4	43.8 ^m 35	+ 1.34 »	51.4	0.15
55	26.1* 9	+ 0.90 »	344.0	47.3 ^m 34	+ 1.32 »	53.6	0.17
56	25.2* 7	+ 0.91 »	341.7	50.7 ^m 32	+ 1.30 »	55.6	0.19
57	24.5* 5	+ 0.92 »	339.6	53.9 ^m 30	+ 1.29 »	57.5	0.21
58	24.0* 5	+ 0.93 »	337.6	56.9 ^m 30	+ 1.28 »	59.3	0.23

Länge von Berlin: -15^m

+48°	18 ^h 55.8 ^m 44	+ 0.65 $\Delta\lambda$	4.0	19 ^h 36.0 ^m 65	+ 1.66 $\Delta\lambda$	36.0	0.04
49	51.4 32	+ 0.76 »	359.4	42.5 ^m 54	+ 1.54 »	40.4	0.07
50	48.2 25	+ 0.82 »	355.6	47.9 ^m 46	+ 1.47 »	43.9	0.09
51	45.7* 20	+ 0.86 »	352.3	52.5 ^m 41	+ 1.43 »	46.9	0.11
52	43.7* 16	+ 0.88 »	349.4	19 56.6 ^m 38	+ 1.40 »	49.5	0.13
53	42.1* 13	+ 0.90 »	346.8	20 0.4 ^m 36	+ 1.38 »	51.9	0.15
54	40.8* 10	+ 0.91 »	344.3	4.0 ^m 33	+ 1.36 »	54.1	0.17
55	39.8* 7	+ 0.92 »	342.1	7.3 ^m 31	+ 1.34 »	56.1	0.19
56	39.1* 6	+ 0.93 »	340.0	10.4 ^m 29	+ 1.32 »	57.9	0.21
57	38.5* 4	+ 0.94 »	338.0	13.3 ^m 28	+ 1.31 »	59.6	0.23
58	38.1* 4	+ 0.95 »	336.0	16.1 ^m 28	+ 1.30 »	61.3	0.25

Länge von Berlin: 0^m

+48°	19 ^h 6.6 ^m 33	+ 0.77 $\Delta\lambda$	359.4	20 ^h 0.3 ^m 52	+ 1.60 $\Delta\lambda$	41.4	0.06
49	3.3 26	+ 0.82 »	355.7	5.5 ^m 45	+ 1.53 »	44.8	0.09
50	19 0.7 20	+ 0.86 »	352.5	10.0 ^m 41	+ 1.48 »	47.7	0.11
51	18 58.7 16	+ 0.89 »	349.6	14.1 ^m 37	+ 1.45 »	50.3	0.13
52	57.1 13	+ 0.91 »	347.0	17.8 ^m 35	+ 1.42 »	52.6	0.15
53	55.8 11	+ 0.92 »	344.6	21.3 ^m 32	+ 1.40 »	54.7	0.17
54	54.7* 9	+ 0.94 »	342.3	24.5 ^m 30	+ 1.38 »	56.7	0.19
55	53.8* 6	+ 0.95 »	340.2	27.5 ^m 29	+ 1.36 »	58.5	0.21
56	53.2* 4	+ 0.96 »	338.2	30.4 ^m 27	+ 1.34 »	60.1	0.23
57	52.8* 3	+ 0.96 »	336.3	33.1 ^m 26	+ 1.33 »	61.7	0.25
58	52.5* 3	+ 0.97 »	334.5	35.7 ^m 26	+ 1.32 »	63.2	0.27

Polhöhe	Mittlere Ortszeit des Eintrittes	Positionswinkel	Mittlere Ortszeit des Austrittes	Positionswinkel	Größte Phase
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Länge von Berlin: +15^m

+48°	19 ^h 18.6 ^m + 0.83 Δλ	355.5	20 ^h 24.1 ^m + 1.59 Δλ	45.9	0.09
49	16.0 ²⁶ + 0.87 »	352.4	28.5 ⁴⁴ + 1.54 »	48.7	0.11
50	14.0 ²⁰ + 0.90 »	349.6	32.5 ⁴⁰ + 1.51 »	51.2	0.13
51	12.4 ¹⁶ + 0.92 »	347.0	36.1 ³⁶ + 1.48 »	53.5	0.15
52	11.0 ¹⁴ + 0.93 »	344.6	39.4 ³³ + 1.45 »	55.6	0.17
53	9.8 ¹² + 0.94 »	342.3	42.5 ³¹ + 1.42 »	57.5	0.19
54	8.9 ⁹ + 0.96 »	340.2	45.4 ²⁹ + 1.40 »	59.3	0.21
55	8.2 ⁷ + 0.97 »	338.3	48.2 ²⁸ + 1.38 »	60.9	0.23
56	7.7 ⁵ + 0.98 »	336.5	50.8 ²⁶ + 1.37 »	62.4	0.25
57	7.4 ³ + 0.98 »	334.7	53.2 ²⁴ + 1.35 »	63.8	0.27
58	7.2* ² + 0.99 »	332.9	55.6 ²⁴ + 1.34 »	65.2	0.29

Länge von Berlin: +30^m

+48°	19 ^h 31.5 ^m + 0.89 Δλ	352.0	20 ^h 47.9 ^m + 1.60 Δλ	50.0	0.12
49	29.4 ²¹ + 0.91 »	349.3	51.7 ³⁸ + 1.56 »	52.4	0.14
50	27.7 ¹⁷ + 0.93 »	346.8	55.2 ³⁵ + 1.53 »	54.6	0.16
51	26.2 ¹⁵ + 0.94 »	344.5	20 58.4 ³² + 1.50 »	56.6	0.18
52	25.0 ¹² + 0.95 »	342.3	21 1.3 ²⁹ + 1.47 »	58.4	0.20
53	24.1 ⁹ + 0.96 »	340.2	4.1 ²⁸ + 1.45 »	60.1	0.22
54	23.4 ⁷ + 0.97 »	338.2	6.7 ²⁶ + 1.43 »	61.7	0.24
55	22.9 ⁵ + 0.98 »	336.4	9.1 ²⁴ + 1.41 »	63.2	0.26
56	22.5 ⁴ + 0.99 »	334.7	11.4 ²³ + 1.39 »	64.6	0.28
57	22.3 ² + 1.00 »	333.0	13.6 ²² + 1.37 »	65.9	0.30
58	22.2 ¹ + 1.01 »	331.3	15.8 ²² + 1.36 »	67.2	0.32

Berlin

—	18 ^h 56.4 ^m — +	345.8	20 ^h 19.6 ^m — +	53.7	0.16
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Verzeichniß von Fixsternen, welche im Jahre 1902
vom Monde bedeckt werden.

Nr.	Name	Gr.	Mittl. AR. 1902.0	Mittl. Decl. 1902.0
1	δ Piscium	4.3	$^{\circ} 43^{\text{m}} 35^{\text{s}}.78$	+ 7° 3' 6.1
2	ϵ Piscium	4.0	$^{\circ} 57 51.33$	+ 7 21 45.7
3	ζ^1 Piscium	4.8	1 8 36.53	+ 7 3 25.7
4	δ^1 Tauri	4.0	4 17 16.89	+17 18 46.3
5	δ^3 Tauri	5.0	4 19 49.03	+17 42 14.0
6	ϵ Tauri	3.6	4 22 53.56	+18 57 47.7
7	z Tauri	5.4	4 45 38.34	+18 40 23.2
8	m Tauri	5.4	5 1 39.43	+18 30 49.2
9	l Tauri	5.5	5 2 0.39	+20 17 19.9
10	119 Tauri	5.3	5 26 27.97	+18 31 17.2
11	ζ Tauri	3.3	5 31 47.23	+21 4 58.5
12	χ^1 Orionis	4.6	5 48 34.71	+20 15 29.0
13	χ^4 Orionis	5.0	5 58 5.94	+20 8 26.9
14	ν Geminorum	4.6	6 23 8.60	+20 16 27.9
15	26 Geminorum	5.5	6 36 41.93	+17 44 28.6
16	λ Geminorum	3.8	7 12 27.69	+16 43 2.8
17	68 Geminorum	5.5	7 28 0.95	+16 2 14.6
18	α Cancri	4.0	8 53 7.67	+12 14 14.2
19	κ Cancri	5.0	9 2 26.36	+11 3 45.8
20	\circ Leonis	3.6	9 35 55.27	+10 20 18.1
21	π Leonis	5.0	9 55 2.10	+ 8 30 52.4
22	d Leonis	4.8	10 55 29.92	+ 4 8 37.2
23	p^5 Leonis	5.3	11 8 44.58	+ 0 27 49.4
24	75 Leonis	5.5	11 12 14.79	+ 2 32 57.7
25	υ Leonis	4.8	11 31 55.82	- 0 16 57.6
26	χ Virginis	5.0	12 34 11.21	- 7 27 22.4
27	ψ Virginis	5.0	12 49 15.29	- 9 0 24.2
28	α Virginis	1	13 20 1.69	-10 38 59.8
29	h Virginis	5.0	13 27 48.22	- 9 39 36.6
30	λ Virginis	4.6	14 13 48.28	-12 55 12.7

Verzeichniß von Fixsternen, welche im Jahre 1902
vom Monde bedeckt werden.

Nr.	Name	Gr.	Mittl. AR. 1902.0	Mittl. Decl. 1902.0
31	α Librae	2.3	14 ^h 45 ^m 27.28 ^s	-15° 38' 5.7"
32	ϑ Librae	4.7	15 48 14.63	-16 26 31.4
33	β^1 Scorpii	2.0	15 59 44.18	-19 32 15.6
34	ν Scorpii	4.0	16 6 17.83	-19 12 22.3
35	ψ Ophiuchi	5.0	16 18 22.00	-19 48 29.9
36	24 Scorpii	5.0	16 35 54.19	-17 33 9.9
37	ξ Ophiuchi	5.0	17 15 7.75	-21 0 28.3
38	ρ^1 Sagittarii	4.0	19 15 59.33	-18 1 55.1
39	υ Sagittarii	4.6	19 16 6.89	-16 8 20.8
40	e^2 Sagittarii	5.0	19 36 54.77	-16 21 14.3
41	g Sagittarii	5.5	19 52 23.54	-15 45 6.1
42	β Capricorni	3.0	20 15 30.33	-15 5 27.9
43	ν Aquarii	4.3	21 4 15.37	-11 46 7.5
44	ξ Aquarii	4.9	21 32 32.09	- 8 17 38.3
45	c^1 Capricorni	4.8	21 39 46.72	- 9 31 57.5
46	30 Aquarii	5.4	21 58 7.15	- 6 59 46.2
47	κ Aquarii	5.2	22 32 40.84	- 4 44 1.1
48	κ Piscium	5.3	23 21 54.47	+ 0 43 8.2
49	λ Piscium	5.0	23 37 2.68	+ 1 14 26.4

Elemente der Stern-Bedeckungen 1902.

Nr.	Zeit der Conj. in AR.	q	p'	q'	Nr.	Zeit der Conj. in AR.	q	p'	q'
	Jan.					Jan.			
	^d ^h ^m					^d ^h ^m			
26	1 5 14.4	+0.9454	5237	-1786	28	29 12 54.4	+0.7113	5287	-1629
27	1 13 1.9	+1.2684	5236	-1737	29	29 16 51.4	-1.0066	5288	-1594
28	2 4 56.0	+0.4042	5243	-1617	30	30 16 8.2	-0.8841	5308	-1358
29	2 8 56.4	-1.3266	5248	-1583	31	31 8 0.0	+0.1019	5334	-1168
30	3 8 28.2	-1.1958	5292	-1349					
31	4 0 25.0	-0.1940	5332	-1160		Febr.			
33	5 12 54.0	+0.8140	5439	-0641	33	1 20 30.1	+1.0680	5418	-0651
34	5 16 3.5	+0.2516	5448	-0591	34	1 23 40.4	+0.5022	5425	-0602
35	5 21 50.9	+0.6028	5464	-0498	35	2 5 29.2	+0.8445	5440	-0510
37	7 0 43.0	+1.1904	5523	-0043	38	5 16 51.0	+0.5157	5554	+0898
43	11 12 3.6	+0.2706	5480	+1606	40	6 2 34.1	-0.3476	5553	+1052
44	12 1 35.2	-1.1640	5463	+1734	48	10 11 58.6	-0.9052	5541	+1982
45	12 5 3.6	+0.7581	5459	+1762	49	10 19 1.5	-0.0462	5553	+1981
46	12 13 52.2	-0.3456	5453	+1828	1	12 1 33.4	-0.0904	5622	+1873
47	13 6 29.4	+0.3898	5450	+1920	2	12 7 58.6	+0.7797	5644	+1828
48	14 6 3.9	-0.7052	5471	+1976	5	15 21 27.5	+1.2538	5949	+0550
49	14 13 15.2	+0.1732	5485	+1975	6	15 22 41.8	+0.0448	5951	+0524
1	15 20 15.4	+0.1721	5578	+1871	7	16 7 49.3	+0.7292	5966	+0330
2	16 2 44.3	+1.0504	5607	+1827	8	16 14 13.5	+1.0579	5974	+0191
6	19 16 35.6	+0.2914	6034	+0520	9	16 14 21.9	-0.7372	5974	+0188
7	20 1 28.1	+0.9557	6058	+0322	10	17 0 7.5	+1.1327	5979	-0026
8	20 7 41.2	+1.2710	6070	+0179	12	17 8 57.3	-0.7348	5974	-0219
9	20 7 49.3	-0.5018	6070	+0176	13	17 12 45.8	-0.7151	5970	-0301
11	20 19 20.7	-1.2451	6077	-0091	14	17 22 49.0	-1.2626	5954	-0516
12	21 1 50.5	-0.5286	6074	-0241	15	18 4 17.3	+0.9954	5943	-0629
13	21 5 31.8	-0.5160	6072	-0326	16	18 18 52.1	+0.9090	5898	-0916
14	21 15 16.2	-1.0752	6055	-0546	17	19 1 17.5	+0.9762	5875	-1034
15	21 20 34.4	+1.1410	6041	-0661	18	20 13 36.5	+0.0680	5710	-1573
16	22 10 43.3	+1.0251	5987	-0954	19	20 17 43.2	+0.6210	5688	-1619
17	22 16 57.9	+1.0772	5959	-1073	20	21 8 45.5	-1.1780	5618	-1760
18	24 4 28.9	+0.0902	5751	-1612	21	21 17 31.1	-0.8590	5578	-1822
19	24 8 31.9	+0.6280	5727	-1656	23	23 4 25.8	+0.9596	5444	-1930
20	24 23 23.6	-1.1994	5634	-1792	25	23 15 44.0	-0.4286	5411	-1922
21	25 8 5.5	-0.9074	5583	-1850	28	25 21 32.8	+0.9697	5340	-1633
23	26 19 1.3	+0.8175	5410	-1942	29	26 1 26.6	-0.7360	5339	-1598
25	27 6 24.7	-0.5982	5369	-1929	30	27 0 26.8	-0.5950	5348	-1361
26	28 13 37.7	+1.2374	5298	-1800	31	27 16 10.1	+0.3944	5366	-1170

Elemente der Stern-Bedeckungen 1902.

Nr.	Zeit der Conj. in AR.	q	p'	q'	Nr.	Zeit der Conj. in AR.	q	p'	q'
März					April				
	d h m					d h m			
34	I 7 44.2	+0.7922	5420	-0605	45	4 6 39.6	+0.8136	5503	+1715
35	I 13 33.9	+1.1320	5431	-0513	46	4 15 17.8	-0.3334	5516	+1786
38	5 I 39.2	+0.7080	5520	+0876	47	5 7 27.0	+0.2916	5551	+1893
40	5 II 27.2	-0.1743	5522	+1028	4	II 8 50.2	+1.2388	6072	+0577
41	5 18 42.0	-0.0384	5525	+1136	5	II 9 49.3	+0.9056	6070	+0555
42	6 5 31.1	+0.5644	5528	+1289	6	II 11 1.0	-0.2828	6070	+0529
43	7 4 19.6	+0.3040	5535	+1574	7	II 19 50.9	+0.3876	6069	+0333
5	15 2 47.7	+1.0248	5970	+0552	8	12 2 4.5	+0.7116	6061	+0193
6	15 4 1.6	-0.1800	5970	+0526	9	12 2 12.7	-1.0596	6060	+0190
7	15 13 7.3	+0.5039	5972	+0332	10	12 11 45.4	+0.7884	6042	-0024
8	15 19 31.5	+0.8343	5973	+0194	12	12 20 26.6	-1.0586	6014	-0215
9	15 19 39.9	-0.9598	5973	+0191	13	13 0 12.5	-1.0385	6002	-0297
10	16 5 27.6	+0.9144	5961	-0021	15	13 15 39.4	+0.6744	5936	-0618
12	16 14 21.1	-0.9522	5946	-0212	16	14 6 18.7	+0.6072	5861	-0896
13	16 18 11.8	-0.9310	5939	-0293	17	14 12 48.5	+0.6844	5823	-1008
15	17 9 55.4	+0.7996	5892	-0614	18	16 1 56.0	-0.1598	5613	-1522
16	18 0 45.5	+0.7288	5836	-0894	19	16 6 10.1	+0.4090	5591	-1566
17	18 7 18.5	+0.8044	5808	-1009	21	17 6 43.2	-1.0297	5477	-1761
18	19 20 26.6	-0.0571	5639	-1536	23	18 18 41.3	+0.9112	5368	-1876
19	20 0 39.0	+0.5086	5620	-1581	25	19 6 16.4	-0.4612	5348	-1872
20	20 16 1.2	-1.2803	5555	-1721	28	21 12 48.9	+1.0867	5348	-1613
21	21 0 57.6	-0.9410	5520	-1783	29	21 16 43.6	-0.6192	5350	-1580
23	22 12 25.6	+0.9616	5415	-1901	30	22 15 43.6	-0.4320	5380	-1351
25	22 23 50.7	-0.4126	5394	-1896	31	23 7 23.5	+0.5842	5402	-1163
28	25 5 46.6	+1.0836	5362	-1626	34	24 22 47.7	+1.0246	5452	-0601
29	25 9 39.6	-0.6184	5363	-1591	38	28 17 52.8	+0.9428	5434	+0855
30	26 8 33.3	-0.4475	5380	-1357	39	28 17 56.5	-1.1305	5434	+0856
31	27 0 11.5	+0.5576	5396	-1167	40	29 3 59.7	+0.0407	5424	+1001
34	28 15 37.1	+0.9810	5435	-0602	41	29 11 29.6	+0.1716	5420	+1104
					42	29 22 42.7	+0.7719	5414	+1250
					43	30 22 24.6	+0.4772	5412	+1525
April					Mai				
38	I 10 18.0	+0.8882	5466	+0862					
39	I 10 21.6	-1.1704	5466	+0862					
40	I 20 16.0	-0.0064	5466	+1010	44	I 12 7.9	-1.0484	5424	+1658
41	2 3 38.5	+0.1246	5467	+1116	45	I 15 38.2	+0.8553	5426	+1688
42	2 14 39.1	+0.7215	5470	+1266	46	2 0 29.3	-0.3062	5440	+1759
43	3 13 50.5	+0.4344	5482	+1547	47	2 17 1.9	+0.3199	5476	+1865
44	4 3 14.3	-1.0714	5496	+1683	48	3 16 8.7	-0.9074	5556	+1946

Elemente der Stern-Bedeckungen 1902.

Nr.	Zeit der Conj. in AR.	q	p'	q'	Nr.	Zeit der Conj. in AR.	q	p'	q'
Juli					Aug.				
	^d ^h ^m					^d ^h ^m			
32	15 8 40.2	-1.2714	5414	-0765	42	16 23 56.9	+0.4806	5464	+1202
34	15 17 27.2	+1.1769	5430	-0635	43	17 23 31.6	+0.0454	5448	+1478
38	19 12 15.8	+0.7278	5478	+0821	45	18 16 47.4	+0.3343	5441	+1641
40	19 22 18.8	-0.2184	5468	+0968	46	19 1 43.1	-0.8854	5440	+1710
41	20 5 46.4	-0.1174	5460	+1073	47	19 18 32.3	-0.3254	5444	+1812
42	20 16 57.7	+0.4424	5446	+1220	49	21 1 39.1	-0.8324	5479	+1891
43	21 16 45.1	+0.0602	5415	+1492	1	22 9 6.5	-1.0240	5558	+1812
45	22 10 13.8	+0.3907	5398	+1650	2	22 15 42.5	-0.1608	5578	+1775
46	22 19 17.1	-0.8152	5391	+1718	3	22 20 38.9	+1.0242	5598	+1742
47	23 12 21.9	-0.2149	5389	+1816	4	26 5 43.5	+0.7828	5937	+0620
49	24 19 57.6	-0.6624	5425	+1890	5	26 6 45.2	+0.4494	5940	+0599
1	26 3 46.7	-0.8072	5522	+1814	6	26 7 59.8	-0.7528	5946	+0576
2	26 10 25.3	+0.0645	5550	+1777	7	26 17 9.3	-0.0166	5970	+0388
3	26 15 23.2	+1.2547	5573	+1745	8	26 23 33.8	+0.3506	5986	+0254
4	29 23 37.0	+1.0016	6013	+0620	10	27 9 26.2	+0.4904	6002	+0044
5	30 0 37.1	+0.6705	6016	+0600	13	27 21 59.0	-1.2542	6010	-0225
6	30 1 50.0	-0.5196	6022	+0574	15	28 13 18.3	+0.5672	6000	-0549
7	30 10 45.2	+0.1998	6056	+0385	16	29 3 36.3	+0.6056	5972	-0835
8	30 16 59.0	+0.5557	6076	+0248	17	29 9 52.7	+0.7288	5956	-0954
9	30 17 7.2	-1.2116	6076	+0245					
10	31 2 34.4	+0.6814	6096	+0032	Sept.				
12	31 11 5.0	-1.0997	6105	-0161	29	5 3 31.0	+0.2534	5442	-1612
13	31 14 44.5	-1.0566	6107	-0244	30	6 1 51.2	+0.4075	5430	-1383
					32	7 23 37.6	-0.7636	5440	-0778
					36	8 22 35.3	-0.9337	5448	-0428
Aug.									
15	1 5 35.9	+0.7162	6097	-0575	38	12 3 25.2	+0.9988	5452	+0783
22	5 17 37.0	-1.1167	5582	-1913	39	12 3 28.8	-1.0750	5452	+0784
24	6 1 22.6	-0.9638	5546	-1919	40	12 13 29.8	+0.0204	5451	+0930
25	6 10 36.7	+0.2015	5509	-1912	41	12 20 57.7	+0.0944	5450	+1034
29	8 18 45.7	+0.0502	5386	-1606	42	13 8 7.6	+0.6104	5448	+1182
30	9 17 26.4	+0.1844	5378	-1377	43	14 7 43.3	+0.1367	5448	+1460
31	10 9 1.4	+1.1440	5385	-1193	45	15 0 55.4	+0.3936	5454	+1626
32	11 15 43.7	-1.0069	5414	-0775	46	15 9 47.5	-0.8372	5460	+1698
36	12 14 47.7	-1.1716	5442	-0424	47	16 2 26.7	-0.3104	5478	+1805
38	15 19 22.4	+0.8278	5476	+0800	49	17 9 4.4	-0.8688	5538	+1893
39	15 19 26.0	-1.2453	5478	+0801	1	18 15 53.0	-1.1084	5630	+1821
40	16 5 23.7	-0.1370	5474	+0948	2	18 22 20.3	-0.2624	5654	+1784
41	16 12 49.5	-0.0525	5470	+1053	3	19 3 10.2	+0.9055	5672	+1752

Elemente der Stern-Bedeckungen 1902.

Nr.	Zeit der Conj. in AR.	q	p'	q'	Nr.	Zeit der Conj. in AR.	q	p'	q'
Sept.					Oct.				
	<small>d h m</small>					<small>d h m</small>			
4	22 11 3.7	+0.6139	5953	+0619	16	22 15 7.0	+0.4138	5922	-0818
5	22 12 5.2	+0.2807	5954	+0599	17	22 21 29.8	+0.5448	5892	-0933
6	22 13 19.7	-0.9208	5958	+0574	18	24 9 40.6	+0.0301	5710	-1460
7	22 22 29.2	-0.1855	5970	+0388	19	24 13 46.8	+0.6276	5689	-1507
8	23 4 54.9	+0.1829	5976	+0255	20	25 4 46.4	-0.9992	5621	-1651
10	23 14 51.1	+0.3255	5978	+0046	21	25 13 29.9	-0.5848	5584	-1717
15	24 19 5.4	+0.4168	5943	-0537	22	26 17 48.5	-1.1105	5492	-1844
16	25 9 40.4	+0.4661	5903	-0817	24	27 1 48.7	-0.9218	5474	-1856
17	25 16 5.1	+0.5961	5882	-0933	25	27 11 17.1	+0.2970	5458	-1858
18	27 4 9.4	+0.0726	5745	-1473					
19	27 8 13.1	+0.6670	5728	-1521	Nov.				
20	27 23 1.4	-0.9572	5672	-1670	36	2 14 23.1	-0.8182	5492	-0431
21	28 7 36.9	-0.5468	5640	-1738	38	5 19 32.4	+1.0990	5401	+0770
					39	5 19 36.1	-0.9927	5401	+0771
					40	6 5 49.3	+0.1058	5387	+0912
Oct.									
30	3 10 25.5	+0.4978	5464	-1383	41	6 13 27.7	+0.1754	5374	+1013
32	5 7 51.0	-0.6436	5472	-0779	42	7 0 55.2	+0.6890	5360	+1156
36	6 6 40.8	-0.8076	5470	-0428	43	8 1 13.9	+0.1910	5344	+1424
38	9 11 45.8	+1.1198	5420	+0775	45	8 18 59.2	+0.4360	5347	+1586
39	9 11 49.5	-0.9618	5420	+0776	46	9 4 7.9	-0.8152	5354	+1658
40	9 21 57.1	+0.1334	5412	+0918	47	9 21 15.7	-0.2959	5384	+1766
41	10 5 30.4	+0.2041	5408	+1021	49	11 4 29.3	-0.8750	5486	+1869
42	10 16 48.7	+0.7160	5402	+1166	1	12 11 21.1	-1.1208	5644	+1822
43	11 16 42.5	+0.2252	5402	+1441	2	12 17 44.1	-0.2816	5682	+1790
45	12 10 6.1	+0.4697	5415	+1607	3	12 22 29.7	+0.8741	5712	+1762
46	12 19 3.1	-0.7707	5427	+1680	4	16 3 12.0	+0.5848	6139	+0642
47	13 11 48.5	-0.2566	5448	+1789	5	16 4 10.1	+0.2607	6143	+0622
49	14 18 25.4	-0.8382	5548	+1888	6	16 5 20.5	-0.9090	6146	+0596
1	16 0 54.3	-1.0982	5674	+1828	7	16 13 59.2	-0.1884	6160	+0405
2	16 7 15.1	-0.2637	5706	+1794	8	16 20 3.1	+0.1734	6166	+0268
3	16 11 59.6	+0.8897	5728	+1762	10	17 5 26.2	+0.3175	6164	+0053
4	19 17 48.0	+0.5595	6044	+0626	15	18 8 13.6	+0.4243	6094	-0545
5	19 18 47.8	+0.2302	6046	+0605	16	18 22 11.3	+0.4832	6026	-0828
6	19 20 0.4	-0.9568	6049	+0580	17	19 4 21.8	+0.6156	5990	-0944
7	20 4 55.5	-0.2325	6056	+0391	18	20 15 35.2	+0.1229	5766	-1474
8	20 11 11.7	+0.1307	6056	+0256	19	20 19 36.4	+0.7156	5741	-1520
10	20 20 54.4	+0.2708	6049	+0046	20	21 10 21.6	-0.8952	5651	-1660
15	22 0 40.0	+0.3623	5983	-0540	21	21 18 59.2	-0.4838	5602	-1723

Elemente der Stern-Bedeckungen 1902.

Nr.	Zeit der Conj. in AR.	q	p'	q'	Nr.	Zeit der Conj. in AR.	q	p'	q'
Nov.					Dec.				
	d h m					d h m			
22	22 23 10.8	-1.0140	5476	-1841	5	13 15 27.2	+0.2566	6157	+0643
24	23 7 12.1	-0.8294	5451	-1852	6	13 16 37.2	-0.9064	6162	+0618
25	23 16 43.3	+0.3855	5425	-1852	7	14 1 11.4	-0.1712	6194	+0427
29	26 1 50.2	+0.3664	5390	-1594	8	14 7 10.7	+0.2002	6212	+0290
30	27 0 30.6	+0.5224	5415	-1380	10	14 16 24.3	+0.3614	6225	+0074
Dec.					15	15 18 31.3	+0.5164	6197	-0536
38	3 2 18.8	+0.9630	5414	+0762	16	16 8 1.6	+0.5988	6140	-0827
39	3 2 22.5	-1.1361	5412	+0763	17	16 13 58.9	+0.7394	6111	-0946
40	3 12 36.7	-0.0437	5392	+0904	18	17 23 51.5	+0.3082	5888	-1494
41	3 20 16.6	+0.0194	5375	+1003	19	18 3 43.4	+0.8956	5860	-1540
42	4 7 47.7	+0.5263	5354	+1146	20	18 17 55.4	-0.6706	5761	-1684
43	5 8 20.9	+0.0092	5314	+1411	21	19 2 14.6	-0.2586	5706	-1748
45	6 2 23.3	+0.2493	5299	+1569	22	20 5 34.6	-0.7669	5546	-1864
46	6 11 43.1	-1.0186	5299	+1638	24	20 13 24.1	-0.5836	5509	-1872
47	7 5 15.4	-0.4948	5313	+1743	25	20 22 43.2	+0.6170	5474	-1870
49	8 13 24.0	-1.0716	5393	+1842	29	23 7 19.9	+0.5650	5375	-1601
1	9 21 14.5	-1.2904	5546	+1801	30	24 6 4.9	+0.6912	5385	-1388
2	10 3 49.2	-0.4324	5589	+1772	32	26 4 17.6	-0.5898	5446	-0807
3	10 8 43.1	+0.7430	5621	+1745	36	27 3 17.5	-0.8296	5472	-0462
4	13 14 29.5	+0.5780	6152	+0664	42	31 13 46.5	+0.3508	5376	+1133

Stern-Bedeckungen für Berlin 1902.

Tag	Nr.	Name	Eintritt mittl. Zeit	Q_1	Austritt mittl. Zeit	Q_2	Bemerkungen
Jan.	12 45	c^1 Capricorni	$5^h 23^m 5$	83.5	$6^h 26^m 5$	229.4	☾ Untg. $7^h 34^m$
	13 47	x Aquarii . .	$7 20.2$	19.4	$8 1.6$	295.2	☾ Untg. $8 46$
	22 17	68 Geminorum	$17 43.2$	144.2	$18 21.8$	243.0	☾ Untg. $18 58$
	24 19	x Cancrī . .	$7 1.4$	113.4	$7 58.8$	274.4	☾ Aufg. $5 40$
	26 23	p^5 Leonis . .	$19 37.6$	71.1	$20 23.6$	330.9	☾ Untg. $20 53$
29 28	α Virginis .	$11 21.2$	128.8	$12 21.2$	274.3	☾ Aufg. $11 38$	
Febr.	12 2	ϵ Piscium .	$8 36.9$	119.4	$9 16.9$	207.1	☾ Untg. $10 20$
	16 7	i Tauri . . .	$7 37.1$	128.2	$8 33.1$	226.9	☾ i. Mer. $7 0$
	16 8	m Tauri . . .	$14 56.5$	152.3	$15 20.7$	212.1	☾ Untg. $15 8$
März	17 15	26 Geminorum	$10 20.0$	121.3	$11 19.8$	261.8	☾ Untg. $14 50$
	18 17	68 Geminorum	$6 53.3$	157.8	$7 36.3$	227.4	☾ i. Mer. $7 48$
	22 23	p^5 Leonis . .	$12 24.7$	131.2	$13 35.9$	279.9	☾ i. Mer. $11 8$
	28 34	v Scorpii . .	$14 53.5$	107.1	$16 16.9$	271.3	☾ i. Mer. $15 44$
April	11 5	δ^3 Tauri . . .	$10 22.2$	116.3	$11 5.2$	241.8	☾ Untg. $10 48$
	14 17	68 Geminorum	$13 28.3$	41.0	$13 51.9$	343.4	☾ Untg. $13 31$
21 28	α Virginis .	$12 53.8$	134.8	$14 4.0$	265.5	☾ i. Mer. $11 21$	
Mai	1 45	c^1 Capricorni	$14 12.3$	44.1	$15 9.7$	282.1	☾ Aufg. $13 50$
Juni	18 34	v Scorpii . .	$10 52.1$	110.8	$12 12.5$	262.6	☾ i. Mer. $10 20$
Juli	2 5	δ^3 Tauri . . .	$14 53.4$	83.0	$15 44.8$	257.4	☾ Aufg. $13 52$
	19 38	ρ^1 Sagittarii .	$12 10.1$	36.7	$13 12.1$	295.6	☾ i. Mer. $11 27$
	30 8	m Tauri . . .	$15 40.0$	52.0	$16 31.4$	293.0	☉ Aufg. $16 18$
Aug.	10 31	α Librae . .	$9 44.9$	144.7	$10 31.9$	233.9	☾ Untg. $10 12$
	28 15	26 Geminorum	$12 9.2$	37.3	$12 38.0$	324.7	☾ Aufg. $12 29$
Sept.	22 4	δ^1 Tauri . . .	$9 48.9$	29.4	$10 23.1$	309.9	☾ Aufg. $8 31$
	25 17	68 Geminorum	$14 39.1$	97.1	$15 43.1$	275.3	☾ Aufg. $11 29$
Oct.	12 45	c^1 Capricorni	$10 49.7$	356.3	$11 13.3$	317.8	☾ Untg. $13 37$
	16 3	ζ^1 Piscium .	$11 34.5$	113.3	$12 25.1$	201.2	☾ i. Mer. $11 30$
	19 4	δ^1 Tauri . . .	$18 12.8$	75.5	$19 12.6$	280.3	☉ Aufg. $18 34$
	22 16	λ Geminorum	$13 56.0$	61.8	$14 52.8$	310.6	☾ i. Mer. $17 15$
	24 19	x Cancrī . .	$12 14.9$	103.6	$13 10.5$	280.0	☾ Aufg. $11 45$
Nov.	23 25	ν Leonis . .	$15 18.3$	58.2	$15 57.5$	346.4	☾ Aufg. $13 15$
Dec.	10 3	ζ^1 Piscium .	$8 22.3$	84.5	$9 33.1$	230.5	☾ i. Mer. $7 53$
	13 4	δ^1 Tauri . . .	$14 56.3$	77.4	$15 54.0$	278.1	☾ Untg. $18 40$
	16 16	λ Geminorum	$6 38.2$	71.6	$7 25.8$	295.0	☾ Aufg. $5 54$
	16 17	68 Geminorum	$13 35.9$	133.1	$14 36.7$	251.3	☾ i. Mer. $13 49$

Geoc. Obere Conj.		$\frac{b}{a}$	Geoc. Obere Conj.		$\frac{b}{a}$	Geoc. Obere Conj.		$\frac{b}{a}$			
Mittlere Zeit			Mittlere Zeit			Mittlere Zeit					
TRABANT I.											
Jan.	1	10 ^h 57.4 ^m	-0.0221	März	22	3 39.3 ^m	-0.0102	Juni	9	19 ^h 8.6 ^m	-0.0007
	3	5 27.9	218		23	22 9.0	99		11	13 35.9	06
	4	23 58.4	216		25	16 38.7	97		13	8 3.1	05
	6	18 28.9	214		27	11 8.4	94		15	2 30.2	04
	8	12 59.4	211		29	5 38.0	91		16	20 57.2	04
	10	7 29.9	209		31	0 7.6	89		18	15 24.2	03
	12	2 0.3	207	April	1	18 37.1	86		20	9 51.1	02
	13	20 30.8	205		3	13 6.6	83		22	4 18.0	01
	15	15 1.2	202		5	7 36.1	81		23	22 44.8	-0.0001
	17	9 31.7	199		7	2 5.5	78		25	17 11.5	00
	19	4 2.1	197		8	20 34.9	75		27	11 38.1	00
	20	22 32.6	194		10	15 4.3	73		29	6 4.7	+0.0001
	22	17 3.1	192		12	9 33.6	71	Juli	1	0 31.3	01
	24	11 33.5	189		14	4 2.9	68		2	18 57.8	02
	26	6 3.9	186		15	22 32.1	66		4	13 24.2	02
	28	0 34.4	183		17	17 1.2	63		6	7 50.6	02
	29	19 4.8	181		19	11 30.3	61		8	2 16.9	02
	31	13 35.2	178		21	5 59.4	59		9	20 43.2	02
Febr.	2	8 5.6	176		23	0 28.4	56		11	15 9.5	02
	4	2 36.0	173		24	18 57.3	54		13	9 35.8	02
	5	21 6.4	170		26	13 26.2	52		15	4 2.0	02
	7	15 36.8	168		28	7 55.0	50		16	22 28.1	01
	9	10 7.2	165		30	2 23.8	47		18	16 54.2	01
	11	4 37.5	162	Mai	1	20 52.5	45		20	11 20.2	+0.0001
	12	23 7.8	160		3	15 21.2	43		22	5 46.2	00
	14	17 38.1	157		5	9 49.8	41		24	0 12.3	00
	16	12 8.3	154		7	4 18.3	38		25	18 38.3	00
	18	6 38.6	152		8	22 46.8	36		27	13 4.3	-0.0001
	20	1 8.9	149		10	17 15.3	34		29	7 30.2	02
	21	19 39.1	146		12	11 43.7	32		31	1 56.2	02
	23	14 9.3	143		14	6 12.0	30	Aug.	1	20 22.2	03
	25	8 39.5	140		16	0 40.2	28		3	14 48.2	03
	27	3 9.6	137		17	19 8.3	26		5	9 14.1	04
	28	21 39.7	135		19	13 36.4	24		7	3 40.1	05
März	2	16 9.8	132		21	8 4.5	23		8	22 6.1	05
	4	10 39.9	129		23	2 32.5	21		10	16 32.1	06
	6	5 10.0	127		24	21 0.4	19		12	10 58.1	07
	7	23 40.1	124		26	15 28.3	17		14	5 24.1	08
	9	18 10.1	121		28	9 56.1	16		15	23 50.1	09
	11	12 40.1	118		30	4 23.8	15		17	18 16.2	09
	13	7 10.0	115		31	22 51.4	13		19	12 42.3	10
	15	1 39.9	112	Juni	2	17 18.9	12		21	7 8.4	11
	16	20 9.8	110		4	11 46.4	11		23	1 34.6	12
	18	14 39.7	107		6	6 13.9	09		24	20 0.8	13
	20	9 9.5	104		8	0 41.3	08		26	14 27.1	14

Geoc. Obere Conj. Mittlere Zeit	$\frac{b}{a}$	Geoc. Obere Conj. Mittlere Zeit	$\frac{b}{a}$	Geoc. Obere Conj. Mittlere Zeit	$\frac{b}{a}$
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TRABANT I. (Fortsetzung.)

Aug. 28	8 ^h 53.5 ^m	-0.0015	Oct. 9	19 ^h 44.3 ^m	-0.0030	Nov. 21	7 ^h 15.1 ^m	-0.0018
30	3 19.9	16	11	14 12.3	30	23	1 44.6	17
31	21 46.3	16	13	8 40.4	30	24	20 14.2	16
Sept. 2	16 12.8	17	15	3 8.6	30	26	14 43.8	15
4	10 39.3	18	16	21 36.8	30	28	9 13.5	14
6	5 5.9	19	18	16 5.1	30	30	3 43.2	12
7	23 32.5	20	20	10 33.5	30	Dec. 1	22 12.9	11
9	17 59.2	21	22	5 2.0	30	3	16 42.7	09
11	12 26.0	22	23	23 30.5	30	5	11 12.5	07
13	6 52.8	23	25	17 59.1	30	7	5 42.4	06
15	1 19.7	24	27	12 27.7	29	9	0 12.3	05
16	19 46.7	24	29	6 56.4	29	10	18 42.2	03
18	14 13.8	25	31	1 25.2	28	12	13 12.1	-0.0001
20	8 41.0	25	Nov. 1	19 54.1	28	14	7 42.1	+0.0001
22	3 8.2	26	3	14 23.0	27	16	2 12.1	03
23	21 35.5	27	5	8 52.0	26	17	20 42.2	05
25	16 2.8	27	7	3 21.0	26	19	15 12.3	07
27	10 30.2	28	8	21 50.1	25	21	9 42.4	09
29	4 57.7	29	10	16 19.2	24	23	4 12.6	11
30	23 25.3	29	12	10 48.4	23	24	22 42.8	13
Oct. 2	17 52.9	29	14	5 17.6	22	26	17 13.0	16
4	12 20.6	30	15	23 46.9	21	28	11 43.2	18
6	6 48.4	30	17	18 16.2	20	30	6 13.4	20
8	1 16.3	30	19	12 45.6	19	32	0 43.7	22

TRABANT II.

Jan. 3	12 ^h 33.7 ^m	-0.0218	März 12	3 ^h 29.3 ^m	-0.0117	Mai 18	16 ^h 44.2 ^m	-0.0025
7	2 0.1	213	15	16 52.4	112	22	5 59.3	22
10	15 25.6	209	19	6 15.2	106	25	19 13.8	18
14	4 51.9	204	22	19 37.6	101	29	8 27.8	15
17	18 17.3	199	26	8 59.8	096	Juni 1	21 41.3	12
21	7 43.4	194	29	22 21.6	090	5	10 54.2	10
24	21 8.8	188	April 2	11 43.1	085	9	0 6.5	08
28	10 34.7	183	6	1 4.3	080	12	13 18.2	06
Febr. 1	0 0.0	178	9	14 25.1	075	16	2 29.4	04
4	13 25.6	172	13	3 45.5	070	19	15 40.0	02
8	2 50.6	167	16	17 5.4	065	23	4 50.3	-0.0001
11	16 15.8	162	20	6 24.9	060	26	17 59.9	0.0000
15	5 40.7	156	23	19 44.0	055	30	7 9.1	+0.0001
18	19 5.5	151	27	9 2.6	051	Juli 3	20 17.8	02
22	8 30.0	145	30	22 20.8	046	7	9 26.1	02
25	21 54.3	139	Mai 4	11 38.5	042	10	22 34.1	02
März 1	11 18.3	134	8	0 55.6	037	14	11 41.6	02
5	0 42.2	129	11	14 12.3	033	18	0 49.0	01
8	14 5.8	123	15	3 28.5	028	21	13 56.0	01

Geoc. Obere Conj. Mittlere Zeit	$\frac{b}{a}$	Geoc. Obere Conj. Mittlere Zeit	$\frac{b}{a}$	Geoc. Obere Conj. Mittlere Zeit	$\frac{b}{a}$
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TRABANT II. (Fortsetzung.)

Juli 25	^h 3 ^m 2.9	0.0000	Sept. 19	21 ^h 14.3	-0.0025	Nov. 15	17 ^h 41.4	-0.0022
28	16 9.6	-0.0001	23	10 26.6		27	19 7 3.4	20
Aug. 1	5 16.2	03	26	23 39.1		28	22 20 24.8	17
4	18 23.0	04	30	12 52.6		29	26 9 47.6	15
8	7 29.6	05	Oct. 4	2 6.2	30	29	23 9.8	12
11	20 36.5	06	7	15 21.1	30	Dec. 3	12 33.4	09
15	9 43.4	08	11	4 36.1	30	7	1 56.3	06
18	22 50.8	10	14	17 52.3	30	10	15 20.7	-0.0003
22	11 58.1	12	18	7 8.5	30	14	4 44.3	+0.0001
26	1 6.1	14	21	20 26.0	30	17	18 9.2	05
29	14 14.1	15	25	9 43.4	30	21	7 33.4	09
Sept. 2	3 23.0	17	28	23 2.1	29	24	20 58.8	13
5	16 32.0	19	Nov. 1	12 20.7	28	28	10 23.5	18
9	5 41.9	21	5	1 40.5	26	31	23 49.4	22
12	18 52.0	22	8	15 0.0	25			
16	8 3.0	24	12	4 20.9	23			

TRABANT III.

Jan. 2	^h 7 ^m 10.0	-0.0220	Mai 4	9 ^h 25.9	-0.0042	Sept. 2	21 ^h 11.2	-0.0017
9	11 40.4	210	11	13 25.2	34	10	0 37.4	21
16	16 11.1	200	18	17 21.0	26	17	4 7.1	24
23	20 41.4	190	25	21 12.2	19	24	7 41.3	27
31	1 11.3	179	Juni 2	0 59.4	13	Oct. 1	11 20.1	29
Febr. 7	5 41.3	168	9	4 41.6	08	8	15 3.8	30
14	10 10.1	157	16	8 18.7	04	15	18 53.0	30
21	14 38.6	146	23	11 51.1	-0.0001	22	22 46.8	29
28	19 5.2	135	30	15 19.4	+0.0001	30	2 45.6	28
März 7	23 30.4	124	Juli 7	18 44.2	02	Nov. 6	6 48.2	26
15	3 53.3	113	14	22 5.6	02	13	10 54.7	23
22	8 14.4	102	22	1 24.8	+0.0001	20	15 4.6	19
29	12 33.7	091	29	4 41.5	-0.0001	27	19 18.2	14
April 5	16 50.3	080	Aug. 5	7 57.4	04	Dec. 4	23 35.3	08
12	21 4.7	070	12	11 13.0	07	12	3 55.0	-0.0001
20	1 15.3	060	19	14 29.8	10	19	8 17.7	+0.0007
27	5 22.5	051	26	17 49.1	14	26	12 42.0	16

TRABANT IV.

Jan. 7	^h 2 ^m 22.9	-0.0188	Mai 21	16 ^h 59.4	-0.0024	Oct. 1	18 ^h 26.7	-0.0019
23	23 17.1	168	Juni 7	9 52.9	11	18	11 23.4	21
Febr. 9	20 7.7	147	24	1 47.5	-0.0001	Nov. 4	5 19.6	19
26	16 47.1	126	Juli 10	16 47.5	+0.0003	21	0 9.4	13
März 15	13 9.1	104	27	7 8.1	+0.0002	Dec. 7	19 42.0	-0.0002
April 1	9 5.2	082	Aug. 12	21 13.6	-0.0002	24	15 49.2	+0.0012
18	4 27.9	061	29	11 32.7	08			
Mai 4	23 8.9	041	Sept. 15	2 31.5	15			

TRABANT I.

Eintritte			Eintritte			Eintritte			Austritte		
Febr. 16	10 ^h 27 ^m 42 ^s	April 24	10 ^h 30 ^m 13 ^s	Juni 30	22 ^h 33 ^m 31 ^s	Sept. 2	18 ^h 2 ^m 2 ^s				
18	4 56 16	26	10 58 44	Juli 2	17 2 9	4	12 30 50				
19	23 24 45	28	5 27 8	4	11 30 42	6	6 59 35				
21	17 53 18	29	23 55 40	6	5 59 21	8	1 28 26				
23	12 21 45	Mai 1	18 24 6	8	0 27 53	9	19 57 11				
25	6 50 19	3	12 52 38	9	18 56 32	11	14 26 0				
27	1 18 48	5	7 21 2	11	13 25 6	13	8 54 46				
28	19 47 20	7	1 49 34	13	7 53 47	15	3 23 38				
März 2	14 15 47	8	20 18 0	15	2 22 20	16	21 52 24				
4	8 44 20	10	14 46 32	16	20 51 0	18	16 21 14				
6	3 12 48	12	9 14 57	18	15 19 36	20	10 50 0				
7	21 41 20	14	3 43 29	20	9 48 18	22	5 18 53				
9	16 9 46	15	22 11 56	22	4 16 52	23	23 47 39				
11	10 38 19	17	16 40 28	23	22 45 34	25	18 16 30				
13	5 6 46	19	11 8 53	25	17 14 11	27	12 45 17				
14	23 35 18	21	5 37 26	27	11 42 55	29	7 14 10				
16	18 3 44	23	0 5 53	29	6 11 31	Oct. 1	1 42 57				
18	12 32 16	24	18 34 26	31	0 40 14	2	20 11 48				
20	7 0 43	26	13 2 52	Aug. 1	19 8 53	4	14 40 36				
22	1 29 15	28	7 31 25	3	13 37 38	6	9 9 29				
23	19 57 40	30	1 59 53			8	3 38 17				
25	14 26 12	31	20 28 26	Austritte		9	22 7 8				
27	8 54 39	Juni 2	14 56 52	5	10 22 15	11	16 35 56				
29	3 23 10	4	9 25 26	7	4 50 59	13	11 4 49				
30	21 51 35	6	3 53 55	8	23 19 39	15	5 33 38				
April 1	16 20 7	7	22 22 29	10	17 48 25	17	0 2 28				
3	10 48 33	9	16 50 56	12	12 17 4	18	18 31 17				
5	5 17 4	11	11 19 31	14	6 45 49	20	13 0 10				
6	23 45 28	13	5 48 0	16	1 14 30	22	7 28 59				
8	18 14 0	15	0 16 36	17	19 43 17	24	1 57 49				
10	12 42 26	16	18 45 4	19	14 11 58	25	20 26 38				
12	7 10 57	18	13 13 39	21	8 40 44	27	14 55 31				
14	1 39 22	20	7 42 10	23	3 9 27	29	9 24 20				
15	20 7 53	22	2 10 46	24	21 38 15	31	3 53 10				
17	14 36 19	23	20 39 15	26	16 6 57	Nov. 1	22 21 59				
19	9 4 51	25	15 7 52	28	10 35 45	3	16 50 51				
21	3 33 15	27	9 36 23	30	5 4 29	5	11 19 39				
22	22 1 47	29	4 5 1	31	23 33 18	7	5 48 30				

TRABANT I. (Fortsetzung.)

Austritte			Austritte			Austritte			Austritte		
Nov.	9	0 ^h 17 ^m 18 ^s	Nov.	23	4 ^h 7 ^m 50 ^s	Dec.	7	7 ^h 58 ^m 11 ^s	Dec.	21	11 ^h 48 ^m 21 ^s
	10	18 46 9		24	22 36 40		9	2 27 0		23	6 17 6
	12	13 14 58		26	17 5 27		10	20 55 46		25	0 45 52
	14	7 43 47		28	11 34 15		12	15 24 32		26	19 14 36
	16	2 12 35		30	6 3 2		14	9 53 18		28	13 43 19
	17	20 41 26	Dec.	2	0 31 51		16	4 22 5		30	8 12 4
	19	15 10 14		3	19 0 38		17	22 50 51		32	2 40 49
	21	9 39 3		5	13 29 25		19	17 19 36			

TRABANT II.

Eintritte			Eintritte			Austritte			Austritte		
Febr.	18	16 ^h 29 ^m 18 ^s	Mai	14	23 ^h 22 ^m 6 ^s	Aug.	8	9 ^h 4 ^m 17 ^s	Oct.	22	0 ^h 30 ^m 56 ^s
	22	5 46 51		18	12 39 0		11	22 22 7		25	13 49 31
	25	19 4 37		22	1 55 52		15	11 39 54		29	3 8 56
März	1	8 22 6		25	15 12 46		19	0 57 53	Nov.	1	16 27 33
	4	21 39 44		29	4 29 39		22	14 15 47		5	5 47 4
	8	10 57 8	Juni	1	17 46 33		26	3 33 55		8	19 5 43
	12	0 14 39		5	7 3 28		29	16 51 55		12	8 25 18
	15	13 31 58		8	20 20 24	Sept.	2	6 10 13		15	21 43 58
	19	2 49 22		12	9 37 21		5	19 28 19		19	11 3 37
	22	16 6 37		15	22 54 19		9	8 46 47		23	0 22 18
	26	5 23 54		19	12 11 19		12	22 4 58		26	13 42 0
	29	18 41 6		23	1 28 20		16	11 23 36		30	3 0 42
April	2	7 58 17		26	14 45 25		20	0 41 52	Dec.	3	16 20 26
	5	21 15 24		30	4 2 30		23	14 0 39		7	5 39 7
	9	10 32 30	Juli	3	17 19 39		27	3 19 0		10	18 58 52
	12	23 49 34		7	6 36 49		30	16 37 55		14	8 17 33
	16	13 6 36		10	19 54 3	Oct.	4	5 56 21		17	21 37 19
	20	2 23 37		14	9 11 19		7	19 15 24		21	10 55 58
	23	15 40 35		17	22 28 39		11	8 33 54		25	0 15 44
	27	4 57 33		21	11 46 1		14	21 53 5		28	13 34 21
	30	18 14 29		25	1 3 27		18	11 11 38		32	2 54 5
Mai	4	7 31 25		28	14 20 57						
	7	20 48 19	Aug.	1	3 38 29						
	11	10 5 13		4	16 56 8						

Mitte der Verfinsternung	Halbe Dauer	Mitte der Verfinsternung	Halbe Dauer
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TRABANT III.

	^h ^m ^s	^h ^m ^s		^h ^m ^s	^h ^m ^s
Febr. 21	12 4 47	1 41 51	Juli 29	3 57 19	1 46 21
28	16 4 21	1 42 10	Aug. 5	7 57 40	1 46 25
März 7	20 3 51	1 42 28	12	11 57 52	1 46 29
15	0 3 0	1 42 46	19	15 58 17	1 46 33
22	4 2 9	1 43 3	26	19 59 18	1 46 35
29	8 1 43	1 43 19	Sept. 3	0 0 17	1 46 37
April 5	12 1 11	1 43 35	10	4 1 53	1 46 39
12	16 1 12	1 43 50	17	8 2 56	1 46 39
19	20 0 36	1 44 5	24	12 3 59	1 46 39
26	23 59 59	1 44 19	Oct. 1	16 4 53	1 46 39
Mai 4	3 59 4	1 44 32	8	20 5 56	1 46 37
11	7 58 14	1 44 45	16	0 7 32	1 46 35
18	11 57 53	1 44 57	23	4 8 59	1 46 33
25	15 57 28	1 45 8	30	8 10 56	1 46 30
Juni 1	19 57 39	1 45 19	Nov. 6	12 12 15	1 46 26
8	23 57 15	1 45 29	13	16 13 29	1 46 21
16	3 56 54	1 45 38	20	20 14 30	1 46 16
23	7 56 20	1 45 47	28	0 15 36	1 46 10
30	11 55 56	1 45 55	Dec. 5	4 17 12	1 46 4
Juli 7	15 56 6	1 46 2	12	8 18 32	1 45 57
14	19 56 15	1 46 9	19	12 20 19	1 45 49
21	23 57 3	1 46 15	26	16 21 24	1 45 41

TRABANT IV.

	^h ^m ^s	^h ^m ^s		^h ^m ^s	^h ^m ^s
Febr. 26	10 3 51	2 4 51	Aug. 12	23 5 18	2 20 31
März 15	4 9 20	2 7 14	29	17 14 40	2 21 6
31	22 14 27	2 9 26	Sept. 15	11 24 49	2 21 29
April 17	16 19 20	2 11 27	Oct. 2	5 36 3	2 21 42
Mai 4	10 24 45	2 13 17	18	23 47 21	2 21 44
21	4 30 6	2 14 57	Nov. 4	17 59 2	2 21 35
Juni 6	22 35 37	2 16 25	21	12 11 22	2 21 15
23	16 42 6	2 17 42	Dec. 8	6 23 11	2 20 44
Juli 10	10 48 57	2 18 49	25	0 35 0	2 20 2
27	4 56 28	2 19 45			

Lage und Gröfse des Saturns-Ringes 1902

nach
Bessel.

c^h	p	l	a	b	u	u'
Jan. 2	7° 15.2	+24° 3.1	34.04	+13.87	345° 2.9	302° 49.9
18	7 18.2	23 34.4	34.05	13.61	347 2.7	304 49.8
Febr. 3	7 20.6	23 4.7	34.26	13.43	348 59.0	306 46.2
19	7 22.3	22 35.8	34.68	13.32	350 47.0	308 34.3
März 7	7 23.3	22 9.3	35.28	13.30	352 22.2	310 9.5
23	7 23.9	+21 46.9	36.05	+13.38	353 40.4	311 27.8
April 8	7 24.2	21 30.2	36.95	13.55	354 38.2	312 25.7
24	7 24.3	21 20.6	37.95	13.81	355 12.6	313 0.2
Mai 10	7 24.4	21 18.9	38.97	14.17	355 22.2	313 9.8
26	7 24.4	21 25.2	39.94	14.59	355 6.5	312 54.2
Juni 11	7 24.4	+21 38.8	40.76	+15.04	354 27.7	312 15.5
27	7 24.2	21 57.9	41.35	15.47	353 30.3	311 18.2
Juli 13	7 23.8	22 20.2	41.63	15.82	352 21.1	310 9.0
29	7 23.1	22 42.6	41.56	16.04	351 8.8	308 56.8
Aug. 14	7 22.3	23 2.7	41.15	16.11	350 2.8	307 50.8
30	7 21.5	+23 18.1	40.46	+16.00	349 11.5	306 59.7
Sept. 15	7 21.1	23 27.3	39.56	15.75	348 41.7	306 29.9
Oct. 1	7 21.0	23 29.6	38.56	15.37	348 37.1	306 25.4
17	7 21.4	23 24.7	37.55	14.92	348 59.0	306 47.4
Nov. 2	7 22.3	23 12.8	36.59	14.42	349 46.2	307 34.7
18	7 23.2	+22 54.1	35.75	+13.91	350 56.0	308 44.5
Dec. 4	7 24.2	22 29.5	35.06	13.41	352 24.2	310 12.7
20	7 24.9	21 59.7	34.56	12.94	354 6.2	311 54.9
36	7 25.1	21 25.7	34.25	12.51	355 57.2	313 46.0

p . . . Winkel der kleinen Axe der Ring-Ellipse mit dem Declinations-Kreise; östlich positiv, westlich negativ.

l . . . Erhöhungs-Winkel der Erde über der Ring-Ebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

a . . . Gröfse Axe der Ring-Ellipse.

b . . . Kleine Axe der Ring-Ellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.

u . . . Länge der Erde vom Saturn aus gesehen, gezählt auf der Ring-Ebene vom aufsteigenden Knoten des Ringes im Aequator an.

u' . . . Dieselbe Länge, gezählt vom aufsteigenden Knoten des Ringes in der Ekliptik an.

Mittl. Zt.	Constellation	Mittl. Zt.	Constellation
Jan.		Febr.	
^a 20	☉ im Perigaeum	^a 22	α Virginis ♂ ☾ . Bedeckung
1 19	☽ obere ♂ ☉	27 2	♀ gr. nördl. hel. Breite
2 5	α Virginis ♂ ☾ . Bedeckung		
2 14	♀ im ♂	März	
5 13	β Scorpil ♂ ☾ . Bedeckung	5 16	♄ ♂ ☾
6 4	♀ ♂ ♃, ♀ 2° 11' südl.	6 15	♃ ♂ ☾
9 6	♀ ♂ ♃, ♀ 1° 50' südl.	7 8	♀ ♂ ☾
9 11	♃ ♂ ☉	7 18	♀ ♂ ☾
9 11	♃ ♂ ☾	10 3	♂ ♂ ☾
9 21	♃ ♂ ☾	11 13	♀ im ♃
9 21	♂ gr. südl. hel. Breite	12 6	♁ □ ☉
9 23	♀ ♂ ☾	17 3	♀ gr. westl. Elong. 27° 40'
10 8	♀ im größten Glanz	19 19	♃ □ ☉
11 1	♂ ♂ ☾	20 4	♀ im größten Glanz
12 19	♀ ♂ ☾	21 2	☉ im γ, Frühlingsanfang
13 4	♀ gr. südl. hel. Breite	21 18	♀ im Aphel
15 12	♃ ♂ ☉	25 6	α Virginis ♂ ☾ . Bedeckung
23 14	♀ ♂ ♂, ♀ 0° 25' südl.	29 14	♂ ♂ ☉
29 13	α Virginis ♂ ☾ . Bedeckung		
Febr.		April	
1 4	♀ im ♂	2 5	♃ ♂ ☾
1 21	β Scorpil ♂ ☾ . Bedeckung	3 10	♃ ♂ ☾
3 0	♀ gr. östl. Elong. 18° 17'	4 19	♀ ♂ ☾
3 4	♂ im Perihel	6 19	♀ ♂ ☾
5 3	♀ im Perihel	8 —	☉ Finsternis
5 18	♀ im Perihel	8 1	♂ ♂ ☾
6 2	♃ ♂ ☾	11 3	♀ gr. südl. hel. Breite
6 18	♃ ♂ ☾	18 0	♃ □ ☉
8 18	♀ ♂ ☾	21 13	α Virginis ♂ ☾ . Bedeckung
9 3	♂ ♂ ☾	22 —	☾ Finsternis
9 10	♀ ♂ ☾	23 13	♀ ♂ ♂, ♀ 0° 40' südl.
14 12	♀ untere ♂ ☉	24 3	♀ im ♃
16 2	♀ gr. nördl. hel. Breite	25 13	♀ gr. westl. Elong. 46° 12'
18 10	♀ untere ♂ ☉	28 13	♀ obere ♂ ☉
		29 15	♃ ♂ ☾
		30 3	♀ im ♂

Mittl. Zt.	Constellation	Mittl. Zt.	Constellation
Mai		Juni	
^d ^h		^d ^h	
1 2	♃ ♂ ☾	23 15	♀ ♂ ♄, ♀ 3° 1' südl.
4 6	♀ ♂ ☾	24 18	♃ ♂ ☾
4 18	♀ im Perihel		
6 22	♃ □ ⊙	Juli	
7 —	⊙ Finsternis	2 11	♀ ♂ ☾ . Bedeckung
8 5	♀ ♂ ☾	3 11	♂ ♂ ☾
15 1	♀ gr. nördl. hel. Breite	4 2	⊙ im Apogaeum
18 19	α Virginis ♂ ☾ . Bedeckung	8 2	♀ gr. südl. hel. Breite
24 5	♃ im ☿	15 11	♀ ♂ ♄, ♀ 1° 34' südl.
26 21	♃ ♂ ☾	15 16	♀ gr. westl. Elong. 20° 35'
28 7	♀ gr. östl. Elong. 23° 3'	17 14	♃ ♂ ⊙
28 9	♀ im Aphel	20 2	♃ ♂ ☾
28 13	♃ ♂ ☾	21 18	♃ ♂ ☾
29 4	♀ ♂ ♄, ♀ 2° 52' nördl.	23 15	♂ ♂ ♄, ♂ 1° 37' nördl.
		27 3	♀ im ☿
Juni		27 8	♀ ♂ ♄, ♀ 0° 11' nördl.
2 20	♀ ♂ ☾	31 17	♀ im Perihel
4 17	♂ ♂ ☾	31 22	♀ ♂ ♂, ♀ 1° 18' südl.
6 5	♂ im ☿	Aug.	
7 5	♀ ♂ ☾	1 5	♀ ♂ ☾
7 12	♀ im ☿	1 5	♂ ♂ ☾
10 17	♂ ♂ ⊙	2 19	♀ ♂ ☾
15 0	α Virginis ♂ ☾ . Bedeckung	5 6	♃ ♂ ⊙
17 17	♀ im Aphel	11 0	♀ gr. nördl. hel. Breite
20 0	♀ gr. südl. hel. Breite	11 4	♀ obere ♂ ⊙
21 22	⊙ im ☿, Sommersanfang	15 7	♀ im ☿
23 0	♃ ♂ ☾	16 5	♃ ♂ ☾
23 4	♄ ♂ ⊙	17 18	♃ ♂ ☾
23 9	♀ untere ♂ ⊙	29 21	♂ ♂ ☾
		31 4	♀ ♂ ☾

Mittl. Zt.	Constellation	Mittl. Zt.	Constellation
Sept.		Nov.	
^a 3 ^h 9	♀ ♂ ☾	^a 1 ^h 15	♃ □ ⊙
3 11	♀ im ♃	4 3	♀ gr. westl. Elong. 18° 50'
10 14	♁ □ ⊙	6 6	♃ ♂ ☾
11 10	♀ ♂ α Leonis, ♀ 0° 39' nördl.	6 23	♀ gr. nördl. hel. Breite
12 11	♃ ♂ ☾	7 17	♃ ♂ ☾
13 17	♀ im Aphel	23 9	♂ ♂ ☾
13 21	♃ ♂ ☾	28 15	♀ obere ♂ ⊙
17 17	♀ im Perihel	28 22	♀ ♂ ☾
20 8	♀ ♂ α Virginis, ♀ 0° 13' südl.	29 14	♀ ♂ ☾
23 13	⊙ in ♌, Herbstanfang	30 10	♀ im ♃
24 17	♀ gr. östl. Elong. 26° 11'	30 22	♀ ♂ β Scorpii, ♀ 1° 6' südl.
27 7	♃ □ ⊙	Dec.	
27 11	♂ ♂ ☾	3 18	♃ ♂ ☾
30 4	♀ ♂ ☾	4 20	♀ im ♃
Oct.		5 8	♃ ♂ ☾
3 4	♀ ♂ ☾	8 7	♂ gr. nördl. hel. Breite
4 2	♀ gr. südl. hel. Breite	10 16	♀ im Aphel
9 19	♀ gr. nördl. hel. Breite	10 20	♀ ♂ ♁, ♀ 0° 8' südl.
9 20	♃ ♂ ☾	12 1	♀ obere ♂ ⊙
11 5	♃ ♂ ☾	13 7	♀ ♂ ♁, ♀ 1° 13' südl.
15 8	♃ □ ⊙	13 23	♁ ♂ ⊙
16 —	☾ Finsternis	21 15	♂ ♂ ☾
19 8	♀ untere ♂ ⊙	21 21	♀ ♂ ♀, ♀ 1° 16' südl.
20 6	♂ ♂ α Leonis, ♂ 1° 4' nördl.	22 7	⊙ im ♌, Wintersanfang
23 2	♀ im ♁	24 7	♂ □ ⊙
23 10	♀ ♂ ♀, ♀ 1° 20' südl.	24 14	♃ ♂ ⊙
25 23	♂ ♂ ☾	30 5	♀ ♂ ☾
27 16	♀ im Perihel	30 12	♀ ♂ ☾
29 12	♀ ♂ ☾	31 1	♀ gr. südl. hel. Breite
30 —	⊙ Finsternis	31 6	♃ ♂ ☾

Tafel zur Berechnung der Mondlibration.

$\lambda - \varnothing$	$\Delta\lambda$	$\frac{1}{a}$	B	$\lambda - \varnothing$	$\Delta\lambda$	$\frac{1}{a}$	B
0°	0.0	+38	+0° 0.0	35°	+0.6	+ 46	+0° 52.4
1	0.0	38	0 1.6	36	0.6	47	0 53.7
2	0.0	38	0 3.2	37	0.6	47	0 55.0
3	+0.1	38	0 4.8	38	0.6	48	0 56.3
4	0.1	38	0 6.4	39	0.6	48	0 57.6
5	+0.1	+38	+0 8.0	40	+0.6	+ 49	+0 58.8
6	0.1	38	0 9.6	41	0.6	49	I 0.0
7	0.1	38	0 11.2	42	0.6	50	I 1.2
8	0.2	38	0 12.7	43	0.6	51	I 2.4
9	0.2	38	0 14.3	44	0.6	52	I 3.5
10	+0.2	+38	+0 15.9	45	+0.6	+ 53	+I 4.6
11	0.2	38	0 17.5	46	0.6	54	I 5.7
12	0.2	38	0 19.0	47	0.6	55	I 6.8
13	0.2	38	0 20.6	48	0.6	56	I 7.9
14	0.2	39	0 22.1	49	0.6	57	I 9.0
15	+0.3	+39	+0 23.7	50	+0.6	+ 58	+I 10.0
16	0.3	39	0 25.2	51	0.6	59	I 11.0
17	0.3	39	0 26.8	52	0.6	61	I 12.0
18	0.3	39	0 28.3	53	0.6	62	I 13.0
19	0.3	40	0 29.8	54	0.6	64	I 13.9
20	+0.4	+40	+0 31.3	55	+0.6	+ 65	+I 14.9
21	0.4	40	0 32.8	56	0.6	67	I 15.8
22	0.4	40	0 34.3	57	0.6	69	I 16.7
23	0.4	41	0 35.8	58	0.6	71	I 17.5
24	0.4	41	0 37.2	59	0.5	73	I 18.3
25	+0.5	+41	+0 38.7	60	+0.5	+ 75	+I 19.1
26	0.5	42	0 40.1	61	0.5	77	I 19.9
27	0.5	42	0 41.5	62	0.5	80	I 20.6
28	0.5	43	0 42.9	63	0.5	83	I 21.4
29	0.5	43	0 44.3	64	0.5	86	I 22.1
30	+0.5	+43	+0 45.7	65	+0.5	+ 89	+I 22.8
31	0.5	44	0 47.1	66	0.4	92	I 23.4
32	0.6	44	0 48.4	67	0.4	96	I 24.1
33	0.6	45	0 49.8	68	0.4	100	I 24.7
34	0.6	45	0 51.1	69	0.4	105	I 25.3
35	+0.6	+46	+0 52.4	70	+0.4	+110	+I 25.8

Tafel zur Berechnung der Mondlibration.

$\lambda - \vartheta$	$\Delta\lambda$	$\frac{1}{a}$	B	$\lambda - \vartheta$	$\Delta\lambda$	$\frac{1}{a}$	B
70°	+0.4	+110	+1° 25.8	80°	+0.2	+ 217	+1° 30.0
71	0.3	116	1 26.4	81	0.2	241	1 30.3
72	0.3	122	1 26.9	82	0.2	270	1 30.5
73	0.3	129	1 27.4	83	0.1	309	1 30.7
74	0.3	137	1 27.8	84	0.1	360	1 30.9
75	+0.3	+146	+1 28.2	85	+0.1	+ 432	+1 31.0
76	0.2	156	1 28.6	86	0.1	539	1 31.1
77	0.2	167	1 29.0	87	+0.1	719	1 31.2
78	0.2	181	1 29.3	88	0.0	1078	1 31.3
79	0.2	197	1 29.7	89	0.0	+2156	1 31.4
80	+0.2	+217	+1 30.0	90	0.0	∞	+1 31.4

$J = 1^\circ 31'.37 =$ Neigung des Mondaequators gegen die Ekliptik.

$\vartheta = 180^\circ + \delta =$ Länge des absteigenden Knotens der Mondbahn auf der Ekliptik (siehe Tafel S. 88).

$\lambda, \beta =$ Länge und Breite des Mittelpunktes der Mondscheibe, berechnet für den Beobachtungsort.

$$\Delta\lambda = \operatorname{tg} \frac{J^2}{2} \sin 2(\lambda - \vartheta) 3437'.75; \quad \frac{1}{a} = \frac{1}{\cos(\lambda - \vartheta) \sin J};$$

$$\operatorname{tg} B = \sin(\lambda - \vartheta) \operatorname{tg} J.$$

$l_0 =$ Mittlere Länge des Mondes (siehe Tafel S. 88).

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

$$l' = \lambda + \Delta\lambda - \frac{B - \beta}{\frac{1}{a}} - l_0.$$

$$b' = B - \beta.$$

Für $\lambda - \vartheta$ zwischen 90° und 180° gehe man mit dem Argument $180^\circ - (\lambda - \vartheta)$ in die Tafel ein und nehme $\Delta\lambda$ und $\frac{1}{a}$ negativ.

Für $\lambda - \vartheta$ zwischen 180° und 270° gehe man mit dem Argument $\lambda - \vartheta - 180^\circ$ in die Tafel ein und nehme $\frac{1}{a}$ und B negativ.

Für $\lambda - \vartheta$ zwischen 270° und 360° gehe man mit dem Argument $360^\circ - (\lambda - \vartheta)$ in die Tafel ein und nehme $\Delta\lambda$ und B negativ.

Bruchtheile des Jahres 1902,

für 0^h Mittl. Zeit der mittleren Sonnentage, gezählt vom Beginn
des annus fictus.

Monats- tag	Januar		Februar		März		April		Mai		Juni	
	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch
1	0	0.0004	31	0.0853	59	0.1620	90	0.2469	120	0.3290	151	0.4139
2	1	0032	32	0881	60	1647	91	2496	121	3317	152	4166
3	2	0059	33	0908	61	1675	92	2523	122	3345	153	4193
4	3	0087	34	0935	62	1702	93	2551	123	3372	154	4221
5	4	0114	35	0963	63	1729	94	2578	124	3399	155	4248
6	5	0.0141	36	0.0990	64	0.1757	95	0.2605	125	0.3427	156	0.4276
7	6	0169	37	1017	65	1784	96	2633	126	3454	157	4303
8	7	0196	38	1045	66	1811	97	2660	127	3482	158	4330
9	8	0223	39	1072	67	1839	98	2688	128	3509	159	4358
10	9	0251	40	1100	68	1866	99	2715	129	3536	160	4385
11	10	0.0278	41	0.1127	69	0.1894	100	0.2742	130	0.3564	161	0.4412
12	11	0306	42	1154	70	1921	101	2770	131	3591	162	4440
13	12	0333	43	1182	71	1948	102	2797	132	3618	163	4467
14	13	0360	44	1209	72	1976	103	2824	133	3646	164	4495
15	14	0388	45	1236	73	2003	104	2851	134	3673	165	4522
16	15	0.0415	46	0.1264	74	0.2030	105	0.2879	135	0.3701	166	0.4549
17	16	0442	47	1291	75	2058	106	2906	136	3728	167	4577
18	17	0470	48	1319	76	2085	107	2934	137	3755	168	4604
19	18	0497	49	1346	77	2113	108	2961	138	3783	169	4632
20	19	0525	50	1373	78	2140	109	2988	139	3810	170	4659
21	20	0.0552	51	0.1401	79	0.2167	110	0.3016	140	0.3838	171	0.4686
22	21	0579	52	1428	80	2195	111	3043	141	3865	172	4714
23	22	0607	53	1456	81	2222	112	3071	142	3892	173	4741
24	23	0634	54	1483	82	2250	113	3098	143	3920	174	4768
25	24	0662	55	1510	83	2277	114	3125	144	3947	175	4796
26	25	0.0689	56	0.1538	84	0.2304	115	0.3153	145	0.3974	176	0.4823
27	26	0716	57	1565	85	2332	116	3180	146	4002	177	4851
28	27	0744	58	1592	86	2359	117	3208	147	4029	178	4878
29	28	0771	59	1620	87	2386	118	3235	148	4057	179	4905
30	29	0798			88	2414	119	3263	149	4084	180	4933
31	30	0.0826			89	0.2441	120	0.3290	150	0.4111	181	0.4960
32	31	0853			90	2469			151	4139		

Bruchtheile des Jahres 1902,

für 0^h Mittl. Zeit der mittleren Sonnentage, gezählt vom Beginn
des annus fictus.

Monats- tag	Juli		August		September		October		November		December	
	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch	Jahres- tag	Jahres- bruch
1	181	0.4960	212	0.5809	243	0.6658	273	0.7479	304	0.8328	334	0.9149
2	182	4987	213	5836	244	6685	274	7506	305	8355	335	9176
3	183	5015	214	5864	245	6712	275	7534	306	8382	336	9204
4	184	5042	215	5891	246	6740	276	7561	307	8410	337	9231
5	185	5070	216	5918	247	6767	277	7588	308	8437	338	9259
6	186	0.5097	217	0.5946	248	0.6794	278	0.7616	309	0.8465	339	0.9286
7	187	5124	218	5973	249	6822	279	7643	310	8492	340	9313
8	188	5152	219	6000	250	6849	280	7671	311	8519	341	9341
9	189	5179	220	6028	251	6877	281	7698	312	8547	342	9368
10	190	5206	221	6055	252	6904	282	7725	313	8574	343	9396
11	191	0.5234	222	0.6083	253	0.6931	283	0.7753	314	0.8602	344	0.9423
12	192	5261	223	6110	254	6959	284	7780	315	8629	345	9450
13	193	5289	224	6137	255	6986	285	7808	316	8656	346	9478
14	194	5316	225	6165	256	7014	286	7835	317	8684	347	9505
15	195	5343	226	6192	257	7041	287	7862	318	8711	348	9532
16	196	0.5371	227	0.6220	258	0.7068	288	0.7890	319	0.8738	349	0.9560
17	197	5398	228	6247	259	7096	289	7917	320	8766	350	9587
18	198	5426	229	6274	260	7123	290	7944	321	8793	351	9615
19	199	5453	230	6302	261	7150	291	7972	322	8821	352	9642
20	200	5480	231	6329	262	7178	292	7999	323	8848	353	9669
21	201	0.5508	232	0.6356	263	0.7205	293	0.8027	324	0.8875	354	0.9697
22	202	5535	233	6384	264	7233	294	8054	325	8903	355	9724
23	203	5562	234	6411	265	7260	295	8081	326	8930	356	9751
24	204	5590	235	6439	266	7287	296	8109	327	8957	357	9779
25	205	5617	236	6466	267	7315	297	8136	328	8985	358	9806
26	206	0.5645	237	0.6493	268	0.7342	298	0.8163	329	0.9012	359	0.9834
27	207	5672	238	6521	269	7369	299	8191	330	9040	360	9861
28	208	5699	239	6548	270	7397	300	8218	331	9067	361	9888
29	209	5727	240	6575	271	7424	301	8246	332	9094	362	9916
30	210	5754	241	6603	272	7452	302	8273	333	9122	363	9943
31	211	0.5781	242	0.6630	273	0.7479	303	0.8300	334	0.9149	364	0.9970
32	212	5809	243	6658			304	8328			365	9998

Julianische Periode.

Anzahl der am Mittag des 1. Januar eines jeden Schaltjahrs
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	21058	57583	94108	30633	67158	03683	40208	76733	13258	49783
4	22519	59044	95569	32094	68619	05144	41669	78194	14719	51244
8	23980	60505	97030	33555	70080	06605	43130	79655	16180	52705
12	25441	61966	98491	35016	71541	08066	44591	81116	17641	54166
16	26902	63427	<u>99952</u>	36477	73002	09527	46052	82577	19102	55627
20	28363	64888	01413	37938	74463	10988	47513	84038	20563	57088
24	29824	66349	02874	39399	75924	12449	48974	85499	22024	58549
28	31285	67810	04335	40860	77385	13910	50435	86960	23485	60010
32	32746	69271	05796	42321	78846	15371	51896	88421	24946	61471
36	34207	70732	07257	43782	80307	16832	53357	89882	26407	62932
40	35668	72193	08718	45243	81768	18293	54818	91343	27868	64393
44	37129	73654	10179	46704	83229	19754	56279	92804	29329	65854
48	38590	75115	11640	48165	84690	21215	57740	94265	30790	67315
52	40051	76576	13101	49626	86151	22676	59201	95726	32251	68776
56	41512	78037	14562	51087	87612	24137	60662	97187	33712	70237
60	42973	79498	16023	52548	89073	25598	62123	<u>98648</u>	35173	71698
64	44434	80959	17484	54009	90534	27059	63584	00109	36634	73159
68	45895	82420	18945	55470	91995	28520	65045	01570	38095	74620
72	47356	83881	20406	56931	93456	29981	66506	03031	39556	76081
76	48817	85342	21867	58392	94917	31442	67967	04492	41017	77542
80	50278	86803	23328	59853	96378	32903	69428	05953	42478	79003
84	51739	88264	24789	61314	97839	34364	70889	07414	43939	80464
88	53200	89725	26250	62775	<u>99300</u>	35825	72350	08875	45400	81925
92	54661	91186	27711	64236	00761	37286	73811	10336	46861	83386
96	56122	92647	29172	65697	02222	38747	75272	11797	48322	84847
100	57583	94108	30633	67158	03683	40208	76733	13258	49783	86308
	17	17	18	18	19	19	19	20	20	20

Jahr n. Chr.	Tage
0	1721058
1	1721424
2	1721789
3	1722154
4	1722519

Jahr n. Chr.	Tage
1580	2298153
1581	2298519
1582	2298884
1583	2299239
1584	2299604

Julianische Periode.

Anzahl der am Mittag des 1. Januar eines jeden Schaltjahrs
seit Anfang der Periode verflossenen Tage.

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86308	22833	59358	95883	32408	68933	05448	41973*	78497*	15021*
4	87769	24294	60819	97344	33869	70394	06909	43433	79957	16481
8	89230	25755	62280	98805	35330	71855	08370	44894	81418	17942
12	90691	27216	63741	00266	36791	73316	09831	46355	82879	19403
16	92152	28677	65202	01727	38252	74777	11292	47816	84340	20864
20	93613	30138	66663	03188	39713	76238	12753	49277	85801	22325
24	95074	31599	68124	04649	41174	77699	14214	50738	87262	23786
28	96535	33060	69585	06110	42635	79160	15675	52199	88723	25247
32	97996	34521	71046	07571	44096	80621	17136	53660	90184	26708
36	99457	35982	72507	09032	45557	82082	18597	55121	91645	28169
40	00918	37443	73968	10493	47018	83543	20058	56582	93106	29630
44	02379	38904	75429	11954	48479	85004	21519	58043	94567	31091
48	03840	40365	76890	13415	49940	86465	22980	59504	96028	32552
52	05301	41826	78351	14876	51401	87926	24441	60965	97489	34013
56	06762	43287	79812	16337	52862	89387	25902	62426	98950	35474
60	08223	44748	81273	17798	54323	90848	27363	63887	00411	36935
64	09684	46209	82734	19259	55784	92309	28824	65348	01872	38396
68	11145	47670	84195	20720	57245	93770	30285	66809	03333	39857
72	12606	49131	85656	22181	58706	95231	31746	68270	04794	41318
76	14067	50592	87117	23642	60167	96692	33207	69731	06255	42779
80	15528	52053	88578	25103	61628	98153	34668	71192	07716	44240
84	16989	53514	90039	26564	63089	99604	36129	72653	09177	45701
88	18450	54975	91500	28025	64550	01065	37590	74114	10638	47162
92	19911	56436	92961	29486	66011	02526	39051	75575	12099	48623
96	21372	57897	94422	30947	67472	03987	40512	77036	13560	50084
100	22833	59358	95883	32408	68933	05448	41973*	78497*	15021*	51545
	21	21	21	22	22	23	23	23	24	24

Anm. Die mit * bezeichneten Jahre sind Gemeinjahre.

Jahr n. Chr.	Tage	Jahr n. Chr.	Tage	Jahr n. Chr.	Tage
1700	2341973	1800	2378497	1900	2415021
1701	2342338	1801	2378862	1901	2415386
1702	2342703	1802	2379227	1902	2415751
1703	2343068	1803	2379592	1903	2416116
1704	2343433	1804	2379957	1904	2416481

Zur Verwandlung der Mittl. Zeit in Sternzeit.

Tafel I.		Tafel II.					
Red. auf St.-Zt.	Mittl. Zt.	Red. auf St.-Zt.	Mittl. Zt.	Red. auf St.-Zt.	Mittl. Zt.	Red. auf St.-Zt.	Mittl. Zt.
+ 0 ^m 0 ^s	0 ^h 0 ^m 0 ^s	+ 0.0	0 ^m 0 ^s	+ 4.0	24 21 ^s	+ 8.0	48 ^m 42 ^s
0 10	1 0 52	0.1	0 37	4.1	24 58	8.1	49 19
0 20	2 1 45	0.2	1 13	4.2	25 34	8.2	49 55
0 30	3 2 37	0.3	1 50	4.3	26 11	8.3	50 32
0 40	4 3 30	0.4	2 26	4.4	26 47	8.4	51 8
0 50	5 4 22	0.5	3 3	4.5	27 24	8.5	51 45
		0.6	3 39	4.6	28 0	8.6	52 21
+ 1 0	6 5 15	0.7	4 16	4.7	28 37	8.7	52 58
1 10	7 6 7	0.8	4 52	4.8	29 13	8.8	53 34
1 20	8 6 59	0.9	5 29	4.9	29 50	8.9	54 11
1 30	9 7 52						
1 40	10 8 44	+ 1.0	6 5	+ 5.0	30 26	+ 9.0	54 47
1 50	11 9 37	1.1	6 42	5.1	31 3	9.1	55 24
		1.2	7 18	5.2	31 39	9.2	56 0
+ 2 0	12 10 29	1.3	7 55	5.3	32 16	9.3	56 37
2 10	13 11 21	1.4	8 31	5.4	32 52	9.4	57 13
2 20	14 12 14	1.5	9 8	5.5	33 29	9.5	57 50
2 30	15 13 6	1.6	9 44	5.6	34 5	9.6	58 26
2 40	16 13 59	1.7	10 21	5.7	34 42	9.7	59 3
2 50	17 14 51	1.8	10 57	5.8	35 18	9.8	59 39
		1.9	11 34	5.9	35 55	9.9	60 16
+ 3 0	18 15 44						
3 10	19 16 36	+ 2.0	12 10	+ 6.0	36 31		
3 20	20 17 28	2.1	12 47	6.1	37 8		
3 30	21 18 21	2.2	13 23	6.2	37 44		
3 40	22 19 13	2.3	14 0	6.3	38 21		
3 50	23 20 6	2.4	14 36	6.4	38 57		
4 0	24 20 58	2.5	15 13	6.5	39 34		
		2.6	15 49	6.6	40 10		
		2.7	16 26	6.7	40 47		
		2.8	17 2	6.8	41 23		
		2.9	17 39	6.9	42 0		
		+ 3.0	18 16	+ 7.0	42 37		
		3.1	18 53	7.1	43 14		
		3.2	19 29	7.2	43 50		
		3.3	20 6	7.3	44 27		
		3.4	20 42	7.4	45 3		
		3.5	21 19	7.5	45 40		
		3.6	21 55	7.6	46 16		
		3.7	22 32	7.7	46 53		
		3.8	23 8	7.8	47 29		
		3.9	23 45	7.9	48 6		

Tafel III.	
+ 0.01	0 ^m 4 ^s
0.02	0 7
0.03	0 11
0.04	0 15
0.05	0 18
0.06	0 22
0.07	0 26
0.08	0 29
0.09	0 33
0.10	0 37

Zur Verwandlung der Sternzeit in Mittl. Zeit.

Tafel I.		Tafel II.					
Red. auf Mittl. Zt.	Stern-Zt.	Red. auf Mittl. Zt.	Stern-Zt.	Red. auf Mittl. Zt.	Stern-Zt.	Red. auf Mittl. Zt.	Stern-Zt.
— 0 ^m 0 ^s	0 ^h 0 ^m 0 ^s	— 0.0	0 ^m 0 ^s	— 4.0	24 ^m 25 ^s	— 8.0	48 ^m 50 ^s
0 10	1 1 2	0.1	0 37	4.1	25 2	8.1	49 27
0 20	2 2 5	0.2	1 13	4.2	25 38	8.2	50 3
0 30	3 3 7	0.3	1 50	4.3	26 15	8.3	50 40
0 40	4 4 10	0.4	2 26	4.4	26 51	8.4	51 16
0 50	5 5 12	0.5	3 3	4.5	27 28	8.5	51 53
		0.6	3 40	4.6	28 5	8.6	52 30
— 1 0	6 6 15	0.7	4 16	4.7	28 41	8.7	53 6
1 10	7 7 17	0.8	4 53	4.8	29 18	8.8	53 43
1 20	8 8 19	0.9	5 30	4.9	29 55	8.9	54 20
1 30	9 9 22						
1 40	10 10 24	— 1.0	6 6	— 5.0	30 31	— 9.0	54 56
1 50	11 11 27	1.1	6 43	5.1	31 8	9.1	55 33
		1.2	7 19	5.2	31 44	9.2	56 9
— 2 0	12 12 29	1.3	7 56	5.3	32 21	9.3	56 46
2 10	13 13 31	1.4	8 32	5.4	32 57	9.4	57 22
2 20	14 14 34	1.5	9 9	5.5	33 34	9.5	57 59
2 30	15 15 36	1.6	9 46	5.6	34 11	9.6	58 36
2 40	16 16 39	1.7	10 22	5.7	34 47	9.7	59 12
2 50	17 17 41	1.8	10 59	5.8	35 24	9.8	59 49
		1.9	11 36	5.9	36 1	9.9	60 26
— 3 0	18 18 44	— 2.0	12 12	— 6.0	36 37		
3 10	19 19 46	2.1	12 49	6.1	37 14		
3 20	20 20 48	2.2	13 25	6.2	37 50		
3 30	21 21 51	2.3	14 2	6.3	38 27		
3 40	22 22 53	2.4	14 38	6.4	39 3		
3 50	23 23 56	2.5	15 15	6.5	39 40		
4 0	24 24 58	2.6	15 52	6.6	40 17		
		2.7	16 28	6.7	40 53		
		2.8	17 5	6.8	41 30		
		2.9	17 42	6.9	42 7		
		— 3.0	18 19	— 7.0	42 44		
		3.1	18 56	7.1	43 21		
		3.2	19 32	7.2	43 57		
		3.3	20 9	7.3	44 34		
		3.4	20 45	7.4	45 10		
		3.5	21 22	7.5	45 47		
		3.6	21 59	7.6	46 24		
		3.7	22 35	7.7	47 0		
		3.8	23 12	7.8	47 37		
		3.9	23 49	7.9	48 14		

Tafel III.	
— 0.01	0 ^m 4 ^s
0.02	0 7
0.03	0 11
0.04	0 15
0.05	0 18
0.06	0 22
0.07	0 26
0.08	0 29
0.09	0 33
0.10	0 37

Zur Verwandlung von Stunden, Minuten und Secunden
in Decimaltheile des Tages und umgekehrt.

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

Zur Verwandlung von Stunden, Minuten und Secunden
in Decimaltheile des Tages und umgekehrt.

Tag	m s	Tag	m s	Tag	m s	Tag	s
0.0001	0 8.64	0.0036	5 11.04	0.0071	10 13.44	0.00001	0.864
02	0 17.28	37	5 19.68	72	10 22.08	2	1.728
03	0 25.92	38	5 28.32	73	10 30.72	3	2.592
04	0 34.56	39	5 36.96	74	10 39.36	4	3.456
05	0 43.20	40	5 45.60	75	10 48.00	5	4.320
06	0 51.84	41	5 54.24	76	10 56.64	6	5.184
07	1 0.48	42	6 2.88	77	11 5.28	7	6.048
08	1 9.12	43	6 11.52	78	11 13.92	8	6.912
09	1 17.76	44	6 20.16	79	11 22.56	9	7.776
10	1 26.40	45	6 28.80	80	11 31.20	10	8.640
11	1 35.04	46	6 37.44	81	11 39.84		
12	1 43.68	47	6 46.08	82	11 48.48		
13	1 52.32	48	6 54.72	83	11 57.12		
14	2 0.96	49	7 3.36	84	12 5.76		
15	2 9.60	50	7 12.00	85	12 14.40		
16	2 18.24	51	7 20.64	86	12 23.04	0.000001	0.086
17	2 26.88	52	7 29.28	87	12 31.68	2	0.173
18	2 35.52	53	7 37.92	88	12 40.32	3	0.259
19	2 44.16	54	7 46.56	89	12 48.96	4	0.346
20	2 52.80	55	7 55.20	90	12 57.60	5	0.432
21	3 1.44	56	8 3.84	91	13 6.24	6	0.518
22	3 10.08	57	8 12.48	92	13 14.88	7	0.605
23	3 18.72	58	8 21.12	93	13 23.52	8	0.691
24	3 27.36	59	8 29.76	94	13 32.16	9	0.778
25	3 36.00	60	8 38.40	95	13 40.80	10	0.864
26	3 44.64	61	8 47.04	96	13 49.44		
27	3 53.28	62	8 55.68	97	13 58.08		
28	4 1.92	63	9 4.32	98	14 6.72		
29	4 10.56	64	9 12.96	99	14 15.36		
30	4 19.20	65	9 21.60	100	14 24.00		
31	4 27.84	66	9 30.24				
32	4 36.48	67	9 38.88				
33	4 45.12	68	9 47.52				
34	4 53.76	69	9 56.16				
35	5 2.40	70	10 4.80				

Hilfsgrößen
zur Berechnung der Praecession nach Newcomb
von den Katalogepochen t_0 bis 1902.0.

$$t = 1902.0.$$

t_0	$m^s(t-t_0)$	$\log [n^s(t-t_0)]$	$\log [n''(t-t_0)]$
1790	+5 ^m 43.989	2.175274	3.351365
1800	5 13.286	2.134646	3.310737
1810	4 42.580	2.089825	3.265916
1825	3 56.518	2.012514	3.188605
1830	3 41.162	1.983351	3.159442
1835	+3 25.807	1.952089	3.128180
1836	3 22.736	1.945557	3.121648
1840	3 10.452	1.918401	3.094492
1842	3 4.309	1.904158	3.080249
1845	2 55.095	1.881879	3.057970
1850	+2 39.738	1.842003	3.018094
1855	2 24.381	1.79809	2.97418
1860	2 9.024	1.74924	2.92533
1864	1 56.737	1.70577	2.88186
1865	1 53.665	1.69419	2.87028
1870	+1 38.307	1.63113	2.80722
1872	1 32.163	1.60310	2.77919
1875	1 22.947	1.55734	2.73343
1880	1 7.558	1.46840	2.64449
1885	0 52.228	1.35642	2.53251
1890	+0 36.867	1.20514	2.38123
1895	0 21.506	0.97106	2.14715
1900	+0 6.144	0.42698	1.60307
1910	-0 24.580	1.02903 _n	2.20512 _n

m und n sind die Newcomb'schen Constanten für die Epoche

$$\frac{1}{2}(t+t_0).$$

Ist α', δ' der genäherte Sternort für die Zeit $\frac{1}{2}(t+t_0)$,

so ist $\alpha = \alpha_0 + [m^s(t-t_0)] + [n^s(t-t_0)] \sin \alpha' \operatorname{tg} \delta'$

$$\delta = \delta_0 + [n''(t-t_0)] \cos \alpha'.$$

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
Altenburg ¹⁾	229 ^m	+50° 58' 20"	+0 ^h 3 ^m 50.64	+ 0.63	+50° 47' 4"	9.999141
Åbo	—	+60 26 56.8	— 0 35 31.50	— 5.84	+60 17 3.1	9.998902
Adelaide	43	—34 55 33.8	—8 20 45.51	—82.26	—34 44 46.2	9.999530
Albany (N. Stw.) ²⁾	40	+42 39 12.6	+5 48 41.23	+57.28	+42 27 44.5	9.999339
Alfred Centre N.Y.	556	+42 15 19.8	+6 4 42.00	+59.91	+42 3 52.5	9.999384
Algier (N. Stw.) ³⁾	20	+36 47 50	+0 41 26.3	+ 6.81	+36 36 48	9.999483
Allegheny Pa.	349	+40 27 41.6	+6 13 37.84	+61.38	+40 16 20.0	9.999415
Altona	—	+53 32 45.3	+0 13 48.56	+ 2.27	+53 21 44.5	9.999063
Amherst Mass.	122	+42 22 17.1	+5 43 39.58	+56.46	+42 10 49.6	9.999351
Annapolis Md.	—	+38 58 53.5	+5 59 31.40	+59.06	+38 47 38.5	9.999428
Ann Arbor Mich.	285	+42 16 48.0	+6 28 30.10	+63.82	+42 5 20.7	9.999364
Arcetri ⁴⁾	186	+43 45 14.4	+0 8 31.8	+ 1.40	+43 33 44.5	9.999321
Arequipa	2400	—16 24 0	+5 39 5	+55.70	—16 17 47	0.000049
Armagh	61	+54 21 12.7	+1 20 10.3	+13.17	+54 10 17.8	9.999047
Athen	—	+37 58 20.7	— 0 41 20	— 6.79	+37 47 11.3	9.999453
Bamberg ⁵⁾	299	+49 53 6.0	+0 10 1.23	+ 1.65	+49 41 45.0	9.999174
Beloit Wisc.	—	+42 30 9	+6 49 42.3	+67.31	+42 18 41	9.999340
Bergen	—	+60 23 54	+0 32 22.1	+ 5.32	+60 14 0	9.998903
Berkeley Calif.	—	+37 52 23.6	+9 2 37.63	+89.14	+37 41 14.7	9.999455
Berlin ⁶⁾	47	+52 30 16.7	0 0 0.00	0.00	+52 19 9.0	9.999091
Berlin (Urania)	—	+52 31 30.7	+0 0 7.40	+ 0.02	+52 20 23.2	9.999088
Bern	573	+46 57 8.7	+0 23 49.25	+ 3.91	+46 45 39.5	9.999266
Besançon	312	+47 14 59.0	+0 29 37.7	+ 4.87	+47 3 30.3	9.999241
Bethlehem Pa. ⁷⁾	—	+40 36 23.5	+5 55 6.81	+58.34	+40 25 1.3	9.999388
Birr Castle ⁸⁾	—	+53 5 47	+1 25 15.8	+14.00	+52 54 43	9.999073
Bogota	2700	+ 4 35 48	+5 50 34	+57.59	+ 4 33 58	0.000175
Bologna	—	+44 29 47	+0 8 10.0	+ 1.34	+44 18 16	9.999289
Bombay	—	+18 54 0	—3 57 40.79	—39.05	+18 46 58	9.999849
Bonn	62	+50 43 45.0	+0 25 11.62	+ 4.14	+50 32 27.7	9.999136
Bordeaux	73	+44 50 7.2	+0 55 40.32	+ 9.14	+44 38 36.6	9.999286
Bothkamp ⁹⁾	32	+54 12 9.6	+0 13 3.7	+ 2.15	+54 1 13.6	9.999048
Bremen ¹⁰⁾	—	+53 4 36	+0 18 20	+ 3.01	+52 53 32	9.999074
Breslau	147	+51 6 56.5	— 0 14 33.93	— 2.39	+50 55 41.1	9.999132

Bibl. Jag.

1) Fr. Krüger.

2) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37°.0 nördlich, 7°.10 östlich.

3) Alte Sternwarte 3'.8 südlich, 8° östlich.

4) Seit October 1872, früher in Florenz.

5) Remeis' Sternwarte.

6) Seit 1835. Alte Sternwarte 56".4 nördlich, 0°.39 westlich.

7) Sayre Observatory, auch South-Bethlehem.

8) Earl of Rosse.

9) Herr von Bülow.

10) Olbers.

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
Brisbane	— ^m	—27° 28' 0"	—9 ^h 18 ^m 31 ^s .5	—9 ^m .75	—27° 18' 36"	9.999693
Brüssel (Alte Stw.) . . .	56	+50 51 10.7	+0 36 6.2	+ 5.93	+50 39 54.0	9.999133
Brüssel (Neue Stw.) ¹⁾ . .	102	+50 47 53	+0 36 8.1	+ 5.94	+50 36 36	9.999137
Budapest ²⁾	—	+47 29 34.7	—0 22 40.5	— 3.73	+47 18 6.5	9.999213
Cambridge Engl.	28	+52 12 51.6	+0 53 12.16	+ 8.74	+52 1 42.2	9.999097
Cambridge Mass. ³⁾ . . .	24	+42 22 47.6	+5 38 5.89	+55.54	+42 11 20.1	9.999345
Catania	60	+37 30 13.3	—0 6 45.8	— 1.11	+37 19 6.7	9.999468
Chapultepec ⁴⁾	—	+19 25 17.5	+7 30 13.15	+73.96	+19 18 5.5	9.999841
Charkow	—	+50 0 10.2	—1 31 19.8	—15.01	+49 48 49.7	9.999150
Charlottesville Virg. ⁵⁾	—	+38 2 1.2	+6 7 40.13	+60.40	+37 50 51.4	9.999451
Chicago Ill. (Alte Stw.) ⁶⁾	—	+41 50 1.0	+6 44 1.69	+66.37	+41 38 34.8	9.999357
Chicago Ill. (Neue Stw.)	—	+42 3	+6 44 17	+66.41	+41 52	9.999351
Christiania	25	+59 54 43.7	+0 10 41.27	+ 1.76	+59 44 43.5	9.998916
Cincinnati Ohio (A.Stw.)	—	+39 6 26.5	+6 31 33.96	+64.32	+38 55 10.9	9.999425
Cincinnati (N. Stw.) ⁷⁾	263	+39 8 19.5	+6 31 16.20	+64.27	+38 57 3.7	9.999442
Clinton N. Y. ⁸⁾	276	+43 3 16.5	+5 55 12.35	+58.35	+42 51 47.6	9.999345
Coimbra	99	+40 12 25.8	+1 27 9.0	+14.32	+40 1 5.2	9.999405
Columbia Missouri ⁹⁾	225	+38 56 51.7	+7 2 53.24	+69.47	+38 45 36.9	9.999444
Cordoba	439	—31 25 15.5	+5 10 23.1	+50.99	—31 15 2.0	9.999638
Danzig	3	+54 21 18.0	—0 21 4.7	— 3.46	+54 10 23.1	9.999043
Denver Col. ¹⁰⁾	1650	+39 40 36.4	+7 53 22.54	+77.76	+39 29 18.1	9.999523
Dorpat	73	+58 22 47.1	—0 53 18.6	— 8.76	+58 12 29.5	9.998953
Dresden (Neue Stw.) ¹¹⁾	121	+51 2 16.8	—0 1 19.94	— 0.22	+50 51 1.0	9.999132
Dublin ¹²⁾	86	+53 23 13.1	+1 18 56.0	+12.97	+53 12 11.2	9.999072
Düsseldorf (Bilk)	26	+51 12 25.0	+0 26 29.9	+ 4.35	+51 1 10.0	9.999122
Dunecht ¹³⁾	141	+57 9 36	+1 3 15	+10.39	+56 59 6	9.998986
Durham	—	+54 46 6.2	+0 59 54.6	+ 9.84	+54 35 14.6	9.999033
Edinburg	106	+55 57 23.2	+1 6 17.96	+10.89	+55 46 41.7	9.999012
Edinburg (Blackf. Hill)	134	+55 55 28.0	+1 6 18.9	+10.89	+55 44 46.2	9.999014
Florenz ¹⁴⁾	73	+43 46 4.1	+0 8 33.0	+ 1.40	+43 34 34.2	9.999313
Genf	407	+46 11 58.8	+0 28 58.15	+ 4.76	+46 0 28.7	9.999274
Genua (Mar. Stw.)	—	+44 25 9.3	+0 17 53.5	+ 2.94	+44 13 38.8	9.999291
Georgetown D. C.	46	+38 54 26.2	+6 1 53.20	+59.45	+38 43 11.6	9.999433

1) Uccle. 2) Geod. Observ. des Polytechnikums.

3) Harvard College Observatory.

4) Alte Sternwarte, 1883 nach Tacubaya verlegt.

5) Leander Mc. Cormick Obs. der University of Virginia.

6) Dearborn Observatory, 1887 geschlossen.

7) Mount Lookout, seit 1873.

8) Litchfield Observatory. 9) Laws Observatory. 10) University Park, Chamberlin Observatory.

11) v. Engelhardt; Herbst 1897 aufgelöst. Alte Sternwarte 14".2 nördlich, 1".57 westlich.

12) Dunsink Observatory.

13) Earl of Crawford.

14) 1872 nach Arcetri verlegt.

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
Glasgow Schottl.	— ^m	+55° 52' 42.6"	+1° 10' 45.46"	+11.62	+55° 42' 0.4"	9.999007
Glasgow Missouri	228	+39 13 45.6	+7 4 52.93	+69.80	+39 2 29.4	9.999438
Göttingen	161	+51 31 47.9	+0 13 48.5	+ 2.27	+51 20 34.6	9.999123
Gohlis ¹⁾	108	+51 21 35.0	+0 4 5.26	+ 0.67	+51 10 20.8	9.999123
Gotha (Neue Stw.) ²⁾	320	+50 56 37.5	+0 10 44.35	+ 1.76	+50 45 21.2	9.999149
Graz	375	+47 4 37.2	— 0 8 13	— 1.35	+46 53 8.2	9.999250
Greenwich	47	+51 28 38.1	+0 53 34.91	+ 8.80	+51 17 24.5	9.999116
Grignon	—	+47 33 42	+0 35 57	+ 5.91	+47 22 14	9.999212
Hamburg	25	+53 33 7.0	+0 13 41.1	+ 2.25	+53 22 6.2	9.999064
Hanover N. H.	—	+43 42 15.2	+5 42 42.87	+56.30	+43 30 45.4	9.999310
Harrow ³⁾	66	+51 34 47.4	+0 55 54.8	+ 9.19	+51 23 33.5	9.999115
Hastings on Huds. N.Y. ⁴⁾	—	+40 59 25	+5 49 4.6	+57.35	+40 48 1	9.999378
Haverford	—	+40 0 36.5	+5 54 47.66	+58.28	+39 49 16.7	9.999403
Heidelberg ⁵⁾	—	+49 24 35	+0 18 46.4	+ 3.08	+49 13 12	9.999165
Heidelberg (Königstuhl)	570	+49 23 54.9	+0 18 40.86	+ 3.07	+49 12 32.0	9.999204
St. Helena	210	—15 55 26	+1 16 27.1	+12.56	—15 49 23	9.999906
Helsingfors	38	+60 9 42.6	— 0 46 14.23	— 7.60	+59 59 45.4	9.998912
Herény Ungarn ⁶⁾	229	+47 15 47.4	— 0 12 49.8	— 2.11	+47 4 18.7	9.999235
Hongkong	—	+22 18 12.2	— 6 43 7.0	—66.22	+22 10 8.4	9.999792
Hudson Ohio	—	+41 14 42.6	+6 19 19.06	+62.31	+41 3 18.2	9.999372
Ipswich (Orwell Park) ⁷⁾	—	+52 0 33	+0 48 39.1	+ 7.99	+51 49 22	9.999100
Jena (Univers.)	156	+50 55 35.6	+0 7 14.1	+ 1.19	+50 44 19.2	9.999137
Jena ⁸⁾	174	+50 56 15.7	+0 7 12.89	+ 1.19	+50 44 59.4	9.999139
Kairo	—	+30 4 38.2	— 1 11 34.00	—11.76	+29 54 40.2	9.999638
Kalocsa ⁹⁾	110	+46 31 42	— 0 22 19.4	— 3.67	+46 20 12	9.999245
Kapstadt	16	—33 56 3.2	— 0 20 19.83	— 3.34	—33 45 24.3	9.999551
Karlsruhe ¹⁰⁾	110	+49 0 29.6	+0 19 58.4	+ 3.28	+48 49 5.4	9.999183
Kazan	70	+55 47 24.2	— 2 22 54.16	—23.48	+55 36 41.2	9.999014
Kew	10	+51 28 6	+0 54 50.0	+ 9.01	+51 16 52	9.999115
Kiel	47	+54 20 28.5	+0 12 59.22	+ 2.13	+54 9 33.5	9.999047
Kiew	179	+50 27 12.5	— 1 8 25.80	—11.24	+50 15 53.9	9.999151
Kis Kartal ¹¹⁾	—	+47 41 54.8	— 0 24 36.8	— 4.04	+47 30 27.0	9.999208
Königsberg	22	+54 42 50.6	— 0 28 24.20	— 4.67	+54 31 58.6	9.999036

1) Hr. Winkler, August 1887 nach Jena verlegt.

2) Col. Tupman.

3) Prof. Max Wolf.

4) Col. Tomline.

5) Erzbischöfl. Haynald'sche Sternwarte.

6) Baron von Podmaniczky.

7) Seit 1853, früher Seeberg.

8) Dr. Draper.

9) Herren Eug. und Alex. von Gothard.

10) Hr. Winkler.

11) 1896 nach Heidelberg verlegt.

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
Kopenhagen (N.Stw.) ¹⁾	14 ^m	+55° 41' 12.9"	+0° 3' 15.99"	+ 0.54	+55° 30' 29.0"	9.999012
Krakau	221	+50° 3' 51.9"	-0° 26' 15.47"	- 4.31	+49° 52' 31.6"	9.999164
Kremsmünster	384	+48° 3' 23.1"	-0° 2' 56.73"	- 0.48	+47° 51' 56.1"	9.999225
La Plata	—	-34° 54' 30"	+4° 45' 11.9"	+46.85	-34° 43' 43"	9.999527
Leiden (Neue Stw.) ²⁾	6	+52° 9' 20.2"	+0° 35' 38.56"	+ 5.86	+51° 58' 10.4"	9.999097
Leipzig (Neue Stw.) ³⁾	119	+51° 20' 5.9"	+0° 4' 0.89"	+ 0.66	+51° 8' 52.0"	9.999125
Lemberg	338	+49° 50' 11"	-0° 42' 29"	- 6.98	+49° 38' 50"	9.999177
Leyton ⁴⁾	—	+51° 34' 34.0"	+0° 53' 35.8"	+ 8.80	+51° 23' 21.0"	9.999111
Lissabon (Neue Stw.)	94	+38° 42' 31.3"	+1° 30' 19.58"	+14.84	+38° 31' 17.7"	9.999441
Lissabon (Mar. Stw.)	—	+38° 42' 17.6"	+1° 30' 8.4"	+14.81	+38° 31' 4.0"	9.999435
Liverpool (Neue Stw.) ⁵⁾	61	+53° 24' 3.8"	+1° 5' 52.1"	+10.82	+53° 13' 2.0"	9.999070
London ⁶⁾	—	+51° 31' 30"	+0° 54' 12.0"	+ 8.90	+51° 20' 17"	9.999112
Lübeck	—	+53° 51' 31.1"	+0° 10' 49.2"	+ 1.78	+53° 40' 32.5"	9.999055
Lund	34	+55° 41' 52.0"	+0° 0' 49.89"	+ 0.14	+55° 31' 8.3"	9.999013
Lussinpiccolo ⁷⁾	—	+44° 32' 11"	-0° 4' 17.5"	- 0.70	+44° 20' 40"	9.999288
Lüttich Ougrée	128	+50° 37' 6"	+0° 31' 23"	+ 5.15	+50° 25' 48"	9.999144
Lyon	299	+45° 41' 40.8"	+0° 34' 26.8"	+ 5.66	+45° 30' 10.3"	9.999279
Madison Wisc. ⁸⁾	293	+43° 4' 36.7"	+6° 51' 12.80"	+67.55	+42° 53' 7.8"	9.999345
Madras	7	+13° 4' 8.1"	-4° 27' 24.42"	-43.93	+12° 59' 4.8"	9.999926
Madrid	655	+40° 24' 29.7"	+1° 8' 19.92"	+11.23	+40° 13' 8.3"	9.999437
Mailand	120	+45° 27' 59.4"	+0° 16' 48.94"	+ 2.76	+45° 16' 30.1"	9.999273
Manila	—	+14° 35' 25"	-7° 10' 15"	-70.68	+14° 29' 49"	9.999909
Mannheim	98	+49° 29' 11.0"	+0° 19' 44.39"	+ 3.24	+49° 17' 48.5"	9.999170
Marburg	248	+50° 48' 46.9"	+0° 18' 29.9"	+ 3.04	+50° 37' 30.0"	9.999147
Mare Island Calif.	18	+38° 5' 55.8"	+9° 2' 40.2"	+89.15	+37° 54' 45.6"	9.999451
Markree ⁹⁾	45	+54° 10' 31.7"	+1° 27' 23.3"	+14.36	+53° 59' 35.5"	9.999050
Marseille (N. Stw.) ¹⁰⁾	75	+43° 18' 19.1"	+0° 32' 0.27"	+ 5.26	+43° 6' 49.8"	9.999325
Melbourne	28	-37° 49' 53.1"	-8° 46' 19.26"	-86.46	-37° 38' 44.5"	9.999458
Meudon	—	+48° 48' 18"	+0° 44' 39.3"	+ 7.34	+48° 36' 53"	9.999180
Mexico	2277	+19° 26' 1.3"	+7° 30' 1.58"	+73.93	+19° 18' 49.0"	9.999995
Middletown Conn.	—	+41° 33' 16.0"	+5° 44' 12.1"	+56.54	+41° 21' 50.6"	9.999364
Modena	63	+44° 38' 52.8"	+0° 9' 52.0"	+ 1.62	+44° 27' 22.2"	9.999289
Moncalieri	—	+44° 59' 51"	+0° 22' 46"	+ 3.74	+44° 48' 20"	9.999277

1) Alte Sternwarte 20".3 südlich, 0".03 westlich.

2) Seit 1860. Alte Sternwarte 8".0 nördlich, 0".42 östlich.

3) Seit 1861. Alte Sternwarte 14".2 nördlich, 4".00 westlich.

4) J. Gurney Barclay.

5) Alte Sternwarte 44".0 nördlich, 17".1 östlich.

6) Regents Park, G. Bishop 1836 — 61.

7) Manora-Sternwarte. 8) Washburn Observatory.

9) Col. Cooper.

10) Seit 1866. Alte Sternwarte 30".1 südlich, 6".2 westlich; 29^m.

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
Montreal Canada . . .	20 ^m	+45° 30' 17.0"	+5 47 53.45	+57.15	+45° 18' 46.4"	9.999265
Mt. Hamilton Calif. ¹⁾	1283	+37 20 25.6	+9 0 9.72	+88.74	+37 9 20.1	9.999556
Moskau	142	+55 45 19.8	-1 36 42.26	-15.89	+55 34 36.5	9.999019
München	529	+48 8 45.5	+0 7 8.79	+ 1.17	+47 57 18.8	9.999233
Nashville Tenn. ²⁾	—	+36 8 58.2	+6 40 47.68	+65.84	+35 58 0.9	9.999497
Natal	—	-29 50 47.0	-1 10 26.3	-11.57	-29 40 51.7	9.999643
Neapel (Capo di M.) . .	164	+40 51 45.4	-0 3 26.8	- 0.57	+40 40 22.3	9.999392
Neuchâtel	488	+46 59 50.6	+0 25 45.05	+ 4.23	+46 48 21.5	9.999259
New Haven Conn. ³⁾	—	+41 19 24.0	+5 45 15.40	+56.72	+41 7 59.3	9.999369
New York N. Y. ⁴⁾	—	+40 43 48.5	+5 49 31.53	+57.42	+40 32 25.8	9.999384
New York (Columb C.)	—	+40 45 23.1	+5 49 28.60	+57.41	+40 34 0.3	9.999384
Nicolajew	55	+46 58 20.6	-1 14 18.96	-12.21	+46 46 51.4	9.999230
Nizza (Mont Gros) ⁵⁾	378	+43 43 16.9	+0 24 22.66	+ 4.01	+43 31 47.0	9.999335
Northfield Minnes. ⁶⁾	286	+44 27 41	+7 6 10.9	+70.01	+44 16 10	9.999310
Oakland Californ. ⁷⁾	11	+37 48 5	+9 2 41.2	+89.15	+37 36 57	9.999458
Odessa	55	+46 28 36.2	-1 9 27.5	-11.41	+46 17 6.3	9.999243
Ogden Utah	—	+41 13 8.6	+8 21 34.52	+82.40	+41 1 44.3	9.999372
O-Gyalla (N. Stw.) ⁸⁾	—	+47 52 27.3	-0 19 10.69	- 3.15	+47 40 59.9	9.999204
Olmütz ⁹⁾	—	+49 35 43	-0 15 33	- 2.55	+49 24 21	9.999160
Oxford (Radcl. Obs.) . .	65	+51 45 36.0	+0 58 37.5	+ 9.63	+51 34 24.0	9.999111
Oxford (Univers.) . . .	64	+51 45 34.2	+0 58 35.3	+ 9.62	+51 34 22.2	9.999110
Oxford Missouri	—	+34 22 12.6	+6 51 42.0	+67.63	+34 11 29.7	9.999540
Padua	31	+45 24 2.5	+0 6 5.71	+ 1.00	+45 12 31.9	9.999268
Palermo	76	+38 6 44.0	+0 0 9.0	+ 0.02	+37 55 33.8	9.999454
Paranatta	—	-33 48 49.8	-9 10 25.3	-90.42	-33 38 12.0	9.999553
Paris (Obs. national) . .	59	+48 50 11.2	+0 44 13.88	+ 7.27	+48 38 46.4	9.999183
Paris (Montsouris) . . .	—	+48 49 18.0	+0 44 14.2	+ 7.27	+48 37 53.2	9.999180
Perth (West. Austr.) . . .	—	-31 57 9.6	-6 49 46.83	-67.32	-31 46 50.2	9.999596
Petersburg (Akademie)	20	+59 56 29.7	-1 7 38.55	-11.11	+59 46 29.9	9.998915
Petersburg (Univers.)	4	+59 56 32.0	-1 7 36.5	-11.11	+59 46 32.2	9.998914
Philadelphia Pa. ¹⁰⁾	—	+39 57 7.5	+5 54 13.36	+58.19	+39 45 47.9	9.999404
Plonsk ¹¹⁾	—	+52 37 40.0	-0 27 57.1	- 4.59	+52 26 33.1	9.999085
Pola	32	+44 51 48.6	-0 1 48.00	- 0.30	+44 40 18.0	9.999282

1) Lick Observatory.

3) Yale University. Alte Sternwarte 45°.8 südlich, 1°.58 westlich.

4) Lewis Rutherford.

6) Goodsell Observatory.

8) Dr. von Konkoly.

10) Flower Obs. (Univ. of Pennsylvania).

2) Vanderbilt Observatory.

5) Herr R. Bischofsheim.

7) Chabol Observatory.

9) Herr von Unkrechtsberg.

11) Dr. Jedrzejewicz.

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
Portsmouth	— ^m	+50° 48' 3"	+0 ^h 57 ^m 59.7	+ 9.53	+50° 36' 46"	9.999130
Potsdam	97	+52 22 56.0	+0 1 19.0	+ 0.22	+52 11 47.6	9.999098
Poughkeepsie N. Y.	—	+41 41 18	+5 49 8.5	+57.36	+41 29 52	9.999360
Prag (Univ.-Stw.) . . .	197	+50 5 18.5	—0 4 6.6	— 0.68	+49 53 58.3	9.999161
Prag ¹⁾	—	+50 4 24	—0 4 13	— 0.69	+49 53 4	9.999148
Princeton N. Y. (N. Stw.) ²⁾	76	+40 20 55.8	+5 52 14.40	+57.86	+40 9 34.6	9.999399
Providence R. J. ³⁾	—	+41 49 46.4	+5 39 12.49	+55.72	+41 38 20.2	9.999357
Pulkowa	75	+59 46 18.7	—1 7 43.74	—11.13	+59 36 16.9	9.998922
Quebec Canada . . .	—	+46 48 17.3	+5 38 24.2	+55.59	+46 36 47.9	9.999231
Quito	2846	— 0 14 0	+6 8 55	+60.60	— 0 13 54	0.000194
Riga (Polytechnikum) .	—	+56 57 7	—0 42 53	— 7.04	+56 46 35	9.998981
Rio de Janeiro . . .	63	—22 54 23.7	+3 46 16.32	+37.17	—22 46 9.7	9.999786
Rochester N. Y. ⁴⁾ . . .	172	+43 9 16.8	+6 3 56.74	+59.78	+42 57 47.7	9.999335
Rom (Coll. Rom.) . . .	59	+41 53 53.6	+0 3 39.36	+ 0.61	+41 42 27.3	9.999359
Rom (Capitol)	63	+41 53 33.5	+0 3 38.39	+ 0.60	+41 42 7.2	9.999359
Rom (Vatican) Mer.-Kr.	—	+41 54 16.8	+0 3 45.38	+ 0.62	+41 42 50.4	9.999355
Rousdon	—	+50 42 38	+1 5 33.8	+10.76	+50 31 21	9.999132
Rugby	—	+52 22 7	+0 58 36.9	+ 9.63	+52 10 59	9.999091
St. Louis Missouri . .	—	+38 38 3.6	+6 54 24.02	+68.08	+38 26 50.4	9.999437
San Fernando	31	+36 27 40.4	+1 18 24.17	+12.88	+36 16 40.8	9.999492
San Francisco Calif. ⁵⁾	—	+37 47 28.0	+9 3 17.68	+89.25	+37 36 19.7	9.999457
Santiago (Neue Stw.) .	—	—33 26 42.0	+5 36 21.2	+55.24	—33 16 7.6	9.999561
Santiago (Alte Stw.) . .	619	—33 26 25.4	+5 36 11.7	+55.22	—33 15 51.0	9.999603
Scarborough	—	+54 16 30	+0 55 13.8	+ 9.07	+54 5 36	9.999045
Schwerin	—	+53 37 37.9	+0 7 54.00	+ 1.30	+53 26 37.7	9.999061
Seeberg ⁶⁾	356	+50 56 5.2	+0 10 39.75	+ 1.75	+50 44 48.9	9.999151
South Hadley Mass.	—	+42 15 18.2	+5 43 55.25	+56.50	+42 3 50.9	9.999346
Speyer	—	+49 18 55.2	+0 19 49.29	+ 3.26	+49 7 32.0	9.999168
Stockholm	44	+59 20 34.0	—0 18 39.07	— 3.06	+59 10 27.2	9.998930
Stonyhurst	—	+53 50 40.0	+1 3 27.6	+10.42	+53 39 41.3	9.999055
Strafsburg (Prov. Stw.)	161	+48 34 54.0	+0 22 32.41	+ 3.70	+48 23 28.5	9.999197
Strafsburg (Neue Stw.)	144	+48 35 0.2	+0 22 30.25	+ 3.70	+48 23 34.7	9.999196
Sydney	44	—33 51 41.1	—9 11 14.69	—90.55	—33 41 2.8	9.999555

1) Herr Safarik.

2) Alte Sternwarte 2" nördlich, 1".94 östlich; 65^m.

3) Seagrave; Ladd Observatory 1".57 östlich, 35" nördlich.

4) Lewis Swift.

5) Davidson Observatory.

6) Alte Sternwarte, 1853 nach Gotha verlegt.

Name	See- höhe	Geogr. Breite	Länge von Berlin + westlich	Corr. der Sternzeit	Geoc. Breite	Log. ρ
Tacubaya ¹⁾	2322 ^m	+19° 24' 17.5"	+ 7 30 ^m 21.40	+ 73.98	+19° 17' 5.8"	9.999999
Taschkent	457	+41 19 31.3	- 3 43 35.89	- 36.73	+41 8 6.6	9.999400
Teramo ²⁾	—	+42 39 27	- 0 1 21	- 0.22	+42 27 59	9.999336
Tokio	—	+35 39 17.5	- 8 25 23.1	- 83.02	+35 28 24.0	9.999509
Toronto	—	+43 39 35.9	+ 6 11 9.56	+ 60.97	+43 28 6.1	9.999311
Toulouse	194	+43 36 45.3	+ 0 47 43.8	+ 7.84	+43 25 15.6	9.999325
Triest	23	+45 38 45.4	- 0 1 28.10	- 0.24	+45 27 14.9	9.999262
Troy N. Y.	—	+42 43 52.9	+ 5 48 19.5	+ 57.22	+42 32 24.6	9.999334
Tulse Hill ³⁾	53	+51 26 47.0	+ 0 54 2.6	+ 8.88	+51 15 33.3	9.999118
Turin	270	+45 4 7.3	+ 0 22 47.68	+ 3.74	+44 52 36.7	9.999293
Twickenham ⁴⁾	—	+51 27 4.2	+ 0 54 48.0	+ 9.00	+51 15 50.5	9.999114
Upsala (Neue Sternw.)	21	+59 51 29.4	- 0 16 55.32	- 2.78	+59 41 28.6	9.998916
Utrecht	12	+52 5 9.5	+ 0 33 3.2	+ 5.43	+51 53 59.3	9.999099
Venedig	—	+45 25 49.5	+ 0 4 10.0	+ 0.68	+45 14 18.9	9.999266
Warschau	110	+52 13 5.7	- 0 30 32.42	- 5.02	+52 1 56.3	9.999102
Washington (A. Stw.)	31	+38 53 38.9	+ 6 1 47.00	+ 59.43	+38 42 24.3	9.999432
Washington (N. Stw.)	—	+38 55 14.8	+ 6 1 50.67	+ 59.44	+38 44 0.1	9.999430
Wellington N. Seeland ⁵⁾	—	-41 18 0.6	-10 45 31.61	-106.05	-41 6 36.0	9.999370
West Point N.Y. (N. Stw.) ⁶⁾	—	+41 23 22	+ 5 49 25.5	+ 57.40	+41 11 57	9.999368
Whitstone N. Y. ⁷⁾	—	+40 47 21.6	+ 5 48 42.6	+ 57.28	+40 35 58.6	9.999383
Wien (Alte Sternw.)	167	+48 12 35.5	- 0 11 56.79	- 1.96	+48 1 8.9	9.999206
Wien (Josephstadt) ⁸⁾	214	+48 12 53.8	- 0 11 50.4	- 1.94	+48 1 27.2	9.999210
Wien (Neue Sternw.)	240	+48 13 55.4	- 0 11 46.58	- 1.93	+48 2 28.9	9.999211
Wien (Ottakring) ⁹⁾	285	+48 12 46.7	- 0 11 36.20	- 1.91	+48 1 20.6	9.999215
Wilhelmshaven	9	+53 31 52.0	+ 0 20 59.70	+ 3.45	+53 20 51.1	9.999064
Williams-Bay Wisc. ¹⁰⁾	—	+42 34 15	+ 6 47 49	+ 66.99	+42 22 47	9.999338
Williamstown Mass.	—	+42 42 49	+ 5 46 28.4	+ 56.92	+42 31 21	9.999335
Williamstown Vict.	—	-37 52 7.2	- 8 46 3.2	- 86.42	-37 40 58.4	9.999455
Wilna	122	+54 40 59.1	- 0 47 34.05	- 7.81	+54 30 6.8	9.999043
Windsor N. S. W. ¹¹⁾	—	-33 36 30.8	- 9 9 45.86	- 90.31	-33 25 54.9	9.999558
Zürich	470	+47 22 40.0	+ 0 19 22.5	+ 3.18	+47 11 11.5	9.999248

1) Seit März 1883, früher in Chapultepec.

2) Dr. V. Cerulli.

3) W. Huggins.

4) G. Bishop's Observatory.

5) Mt. Cook Observatory.

6) Seit 1883. Alte Sternwarte 9° nördlich, 1° 2 östlich.

7) Field Observatory.

8) von Oppolzer's Sternwarte.

9) M. v. Kuffner.

10) Yerkes Observatory.

11) J. Tebbutt. Neue Sternwarte, 0° 4 südlich von der alten.

Nr. und Name	Opposition		m.	g	Epoche			Mittl. Aequ.	M			ω
	1900	Gr.			und	Osculation						
1 Ceres	Aug. 3	7.8	7.4	4.0	1900	Juli	24.0	d. Ep.	152° 36' 3.6"	70° 20' 18.0"		
2 Pallas	Juli 5	9.2	8.0	4.5	1900	Juli	24.0	d. Ep.	153 58 40.2	309 16 39.5		
3 Juno	Sept. 29	7.4	8.7	5.5	1900	Oct.	4.0	d. Ep.	330 58 54.7	244 44 12.5		
4 Vesta	—	—	6.5	4.0	1899	Oct.	9.0	d. Ep.	119 38 30.0	148 21 23.0		
5 Astraea	Jan. 3	8.8	9.9	6.9	1898	Sept.	11.0	1900.0	224 4 1.2	353 27 42.1		
6 Hebe	Juni 27	8.5	8.5	5.8	1900	Juli	3.0	1900.0	284 20 20.1	236 56 20.0		
7 Iris	—	—	8.4	5.8	1900	Jan.	0.0*	1900.0	9 5 20.1	141 31 26.9		
8 Flora	—	—	8.9	6.8	1848	Jan.	1.0*	d. Ep.	35 52 49.3	282 38 15.6		
9 Metis	Juni 13	9.5	8.9	6.3	1858	Juni	30.0*	d. Ep.	57 4 34.7	2 32 16.9		
10 Hygiea	Juni 22	8.9	9.5	5.4	1898	Dec.	20.0	1900.0	291 20 17.9	308 58 5.7		
11 Parthenope . .	Mai 21	9.1	9.3	6.5	1900	Mai	24.0	1900.0	292 39 8.5	193 19 8.9		
12 Victoria	Oct. 3	8.9	9.7	7.2	1851	Jan.	0.0*	d. Ep.	66 2 39.9	66 4 43.3		
13 Egeria	Dec. 8	9.9	9.7	6.7	1850	Jan.	0.0*	d. Ep.	210 46 34.3	76 58 23.7		
14 Irene	—	—	9.7	6.6	1898	Oct.	1.0	1900.0	180 47 34.9	92 3 15.9		
15 Eunomia	—	—	8.6	5.4	1854	Jan.	0.0*	d. Ep.	122 5 31.5	93 59 46.0		
16 Psyche	Nov. 27	9.1	9.6	5.9	1899	Juli	27.0	1900.0	301 1 33.0	226 3 22.5		
17 Thetis	Oct. 22	10.4	10.1	7.3	1900	Oct.	31.0	1900.0	112 53 10.3	137 37 27.9		
18 Melpomene . .	April 15	10.4	9.3	6.9	1854	Jan.	0.0*	d. Ep.	80 4 37.0	225 1 41.3		
19 Fortuna	März 5	10.4	9.8	7.1	1900	März	25.0	1900.0	125 39 18.8	179 40 0.0		
20 Massalia	Juli 20	9.9	9.2	6.5	1899	März	29.0	1900.0	76 24 22.5	253 50 39.9		
21 Lutetia	März 25	10.8	10.1	7.4	1853	Jan.	2.0*	d. Ep.	74 20 5.1	246 36 10.2		
22 Kalliope	Juni 24	10.2	9.8	6.1	1898	Oct.	1.0	1900.0	96 34 37.0	351 56 41.4		
23 Thalia	—	—	10.5	7.3	1900	Jan.	3.0	1900.0	337 2 2.1	55 59 46.7		
24 Themis	Sept. 15	11.4	10.8	6.7	1897	Dec.	25.0	1900.0	40 55 3.7	106 58 44.6		
25 Phocaea	—	—	10.5	7.9	1898	Aug.	2.0	1900.0	7 21 33.6	88 49 31.0		
26 Proserpina . .	Febr. 9	10.6	10.5	7.3	1853	Juni	11.0*	d. Ep.	351 5 55.6	190 30 15.7		
27 Euterpe	Dec. 40	8.6	9.7	7.2	1873	Jan.	5.0*	1870.0	90 32 27.0	354 8 6.0		
28 Bellona	Jan. 31	9.2	10.1	6.6	1898	Sept.	11.0	1900.0	258 21 43.7	338 30 59.1		
29 Amphitrite . .	Juli 29	9.2	9.0	6.1	1855	Jan.	0.0*	1870.0	198 1 40.2	59 42 14.8		
30 Urania	März 7	10.4	9.9	7.4	1890	Juni	5.0	1900.0	239 51 48.5	83 43 10.7		
31 Euphrosyne . .	—	—	11.0	6.8	1899	Oct.	15.0	1900.0	327 7 12.3	60 23 37.9		
32 Pomona	Nov. 21	10.9	10.6	7.5	1855	Jan.	0.0*	d. Ep.	223 54 39.3	332 38 53.4		
33 Polyhymnia . .	Febr. 14	13.3	11.8	8.2	1900	Jan.	0.0	1900.0	137 40 57.3	334 10 42.4		
34 Circe	Juli 23	11.9	11.5	8.2	1897	Dec.	5.0	1900.0	288 24 37.6	326 54 59.7		
35 Leukothea . . .	Dec. 36	12.1	12.2	8.3	1898	Sept.	11.0	1900.0	127 21 38.2	205 22 19.6		
36 Atalante	Juli 6	12.5	12.0	8.6	1899	Mai	8.0	1900.0	179 27 12.1	44 26 45.4		
37 Fides	März 7	10.4	10.4	7.2	1900	März	5.0	1900.0	78 37 55.9	58 50 12.4		
38 Leda	Nov. 27	10.6	11.4	8.0	1897	Febr.	8.0	1900.0	31 52 32.7	166 10 52.1		
39 Laetitia	Dec. 1	9.2	9.5	6.0	1897	Jan.	19.0	1900.0	111 43 50.9	205 28 8.2		
40 Harmonia	Febr. 15	9.0	9.2	6.9	1863	Jan.	0.0*	d. Ep.	186 48 19.4	267 19 12.8		

Ω	i	φ	μ	Log. a	Autorität
80° 39' 7.1	10° 37' 21.1	4° 30' 14.9	771.2414	0.4418775	Godward.
172 49 58.6	34 40 48.3	13 44 16.0	768.6565	0.4428495	Farley.
170 44 28.0	13 1 35.7	14 54 14.4	813.8326	0.4263143	Hind.
103 31 7.5	7 8 16.2	5 7 1.2	977.6889	0.3732039	Farley.
141 31 29.0	5 20 7.2	11 1 8.5	858.1895	0.4109489	Farley.
138 39 42.4	14 48 3.2	11 35 3.1	939.1860	0.3848366	Prof. R. Luther.
260 33 44.3	5 28 1.2	13 20 50.2	962.5828	0.3777123	Dr. Riem.
110 17 16.7	5 53 7.3	9 0 54.4	1086.3382	0.3426943	Prof. Downing.
68 31 35.2	5 36 0.3	7 5 2.4	962.3390	0.3777857	Lesser.
285 48 45.5	3 48 49.8	6 53 27.8	639.1669	0.4962621	Prof. E. Becker.
125 16 47.8	4 37 48.8	5 46 3.4	923.2874	0.3897798	Prof. R. Luther.
235 34 41.7	8 23 17.7	12 38 44.9	994.8347	0.3681389	Brünnow.
43 11 34.5	16 32 24.6	4 59 47.3	857.9451	0.4110315	Hansen.
86 57 12.9	9 7 32.2	9 20 51.3	851.4287	0.4132389	Maywald.
293 52 14.5	11 44 17.4	10 47 32.2	825.4550	0.4222090	Schubert.
150 31 37.1	3 4 30.2	7 50 18.3	710.5554	0.4656058	Schubert.
125 11 47.1	5 36 37.4	7 33 55.8	912.9107	0.3930522	Maywald.
150 3 49.7	10 9 16.9	12 34 20.2	1020.1198	0.3609032	Schubert.
211 15 40.3	1 33 4.3	9 9 40.0	930.1666	0.3876305	A. Berberich.
206 37 45.2	0 41 11.9	8 17 46.2	949.0005	0.3818268	Prof. Küstner.
80 27 48.5	3 5 9.5	9 19 44.6	933.5544	0.3865780	Lesser.
66 33 27.0	13 43 36.7	5 38 34.5	714.4288	0.4640317	A. Berberich.
67 50 20.9	10 13 2.0	13 32 59.4	833.5369	0.4193879	Schubert.
35 39 6.4	0 48 8.1	7 50 15.3	640.5990	0.4956138	Krueger.
214 13 50.6	21 36 44.5	14 39 21.4	954.0992	0.3802754	A. Berberich.
45 54 59.3	3 35 47.7	5 0 37.3	819.6847	0.4242399	Hoek.
93 51 20.1	1 35 30.4	10 0 56.0	986.6944	0.3705493	Prof. Hoppe.
144 43 16.1	9 21 37.4	8 38 54.6	765.9782	0.4438601	Oberstl. v. d. Groeben.
356 40 46.5	6 7 4.6	4 15 25.3	869.0352	0.4073128	Prof. E. Becker.
308 15 7.4	2 5 59.5	7 21 5.1	975.3144	0.3739080	Günther.
31 45 6.4	26 28 3.3	12 52 34.7	635.0803	0.4981187	Schubert.
220 42 55.2	5 28 49.9	4 45 43.1	852.5880	0.4128449	Lesser.
9 7 49.5	1 55 15.8	19 41 13.8	731.7057	0.4571134	Prof. Newcomb.
184 49 41.0	5 27 26.3	6 4 35.9	805.6011	0.4292575	Prof. Auwers.
355 47 23.7	8 11 44.8	12 42 36.2	683.6866	0.4767663	Tietjen.
359 6 46.3	18 39 39.3	17 26 19.0	777.3458	0.4395950	Schubert.
8 7 10.9	3 6 14.1	10 15 7.8	826.9450	0.4216867	Prof. R. Luther.
296 29 4.4	6 57 52.6	8 53 45.4	781.8518	0.4379215	A. Berberich.
157 24 53.4	10 22 11.4	6 23 16.8	769.6407	0.4424791	Tietjen.
93 34 54.2	4 15 48.4	2 40 13.6	1039.3353	0.3555000	Schubert.

Nr. und Name	Opposition		m_0	g	Epoche und Osculation	Mittl. Aequ.	M			ω		
	1900	Gr.										
41 Daphne . .	Dec. 2	11.6	10.5	7.0	1896 Dec. 30.0	1900.0	278	7	19.3	41	56	43.2
42 Isis	—	—	10.4	7.7	1901 März 20.0	1900.0	220	37	25.4	234	12	19.6
43 Ariadne . .	Aug. 20	9.1	10.0	7.9	1897 Oct. 6.0	1900.0	80	15	48.4	13	59	41.2
44 Nysa	Oct. 29	9.2	9.8	7.1	1891 April 1.0	1900.0	101	29	32.1	340	32	15.8
45 Eugenia . .	—	—	10.7	7.3	1890 Nov. 12.0	1900.0	180	7	31.7	82	42	47.8
46 Hestia . . .	März 22	11.5	10.6	7.7	1900 März 5.0	1900.0	185	43	16.4	172	51	10.1
47 Aglaja . . .	Mai 16	10.9	11.2	7.5	1898 Dec. 20.0	1900.0	193	12	16.1	310	0	51.6
48 Doris	Juni 22	11.2	10.9	6.8	1890 Sept. 13.0	1900.0	277	3	7.4	251	36	35.0
49 Pales	Juli 17	11.0	11.0	7.0	1898 März 15.0	1900.0	133	1	8.6	104	18	44.6
50 Virginia . .	Aug. 31	9.8	11.7	8.5	1890 April 6.0	1900.0	193	9	42.2	196	47	34.5
51 Nemausa . .	Dec. 8	9.9	9.8	7.3	1889 Nov. 17.0	1900.0	254	26	43.1	358	30	23.3
52 Europa . . .	Dec. 24	9.6	10.3	6.2	1891 April 1.0	1900.0	65	39	33.0	335	58	38.7
53 Kalypso . .	Jan. 21	10.5	11.5	8.4	1898 Sept. 11.0	1900.0	262	39	8.8	309	50	4.2
54 Alexandra . .	—	—	10.9	7.6	1884 Aug. 15.0	1900.0	316	55	13.5	341	53	51.5
55 Pandora . . .	Dec. 38	10.8	10.8	7.4	1885 Jan. 22.0	1900.0	263	33	12.6	0	46	45.4
56 Melete . . .	Dec. 31	12.4	11.3	8.2	1900 Dec. 10.0	1900.0	152	34	12.0	101	6	1.9
57 Mnemosyne	—	—	10.7	6.5	1897 Juni 28.0	1900.0	231	1	17.6	210	8	12.7
58 Concordia . .	März 29	11.2	11.6	8.3	1865 Jan. 7.0	d. Ep.	21	24	4.2	27	50	14.7
59 Elpis	Aug. 27	10.4	10.9	7.6	1865 Jan. 7.0	1900.0	334	18	57.1	207	58	22.3
60 Echo	Juni 29	12.1	11.1	8.5	1897 Oct. 6.0	1900.0	272	15	22.3	267	58	4.0
61 Danaë . . .	April 14	11.5	11.0	7.1	1900 April 14.0	1900.0	244	20	50.4	8	27	33.5
62 Erato	—	—	12.3	8.2	1877 Sept. 21.0	1900.0	358	43	44.3	273	16	41.1
63 Ausonia . . .	Dec. 13	10.6	9.9	7.3	1898 Febr. 3.0	1900.0	250	44	8.5	292	55	25.5
64 Angelina . .	Jan. 2	9.7	10.5	7.2	1898 Oct. 1.0	1900.0	239	38	51.2	173	37	28.8
65 Cybele . . .	Juni 8	10.4	11.0	6.4	1900 Juni 13.0	1900.0	0	34	8.2	97	52	20.2
66 Maja	April 14	13.0	12.2	9.0	1897 Juli 18.0	1900.0	277	50	28.5	40	10	9.2
67 Asia	Dec. 24	12.0	11.2	8.5	1897 Dec. 5.0	1900.0	201	20	50.1	103	20	37.7
68 Leto	Dec. 20	10.5	10.5	7.0	1898 April 24.0	1900.0	236	41	25.3	301	43	40.3
69 Hesperia . .	Oct. 13	10.5	10.7	6.8	1889 Jan. 1.0	1900.0	182	52	57.9	284	43	39.6
70 Panopaea . .	Oct. 18	10.6	10.9	7.8	1890 Dec. 22.0	1900.0	305	21	16.5	252	49	22.9
71 Niobe	—	—	10.7	7.3	1898 Oct. 1.0	1900.0	134	2	10.3	265	39	20.2
72 Feronia . . .	Dec. 10	11.6	11.2	8.9	1897 Dec. 25.0	1900.0	166	4	16.3	100	27	36.6
73 Klytia	—	—	12.0	8.8	1898 Aug. 2.0	1900.0	244	29	53.1	52	42	12.0
74 Galatea . . .	Dec. 56	12.1	11.8	8.3	1897 Febr. 28.0	1900.0	148	4	45.2	171	0	3.8
75 Eurydike . .	März 25	12.8	11.6	8.4	1897 Oct. 26.0	1900.0	32	23	13.9	335	34	2.0
76 Freia	Nov. 13	11.2	12.0	7.4	1900 Nov. 20.0	1900.0	333	40	15.1	236	35	54.8
77 Frigga	Mai 26	11.8	11.1	7.9	1897 Oct. 6.0	1900.0	331	13	52.7	56	51	27.7
78 Diana	—	—	10.6	7.5	1899 Sept. 6.0	1900.0	253	25	1.6	148	55	27.0
79 Eurynome . .	Mai 9	11.5	10.5	7.8	1900 Mai 24.0	1900.0	188	49	51.5	198	14	19.0
80 Sappho . . .	Dec. 46	11.0	10.6	8.2	1896 Oct. 11.0	1900.0	19	11	20.1	136	54	29.1

Ω	i	φ	μ	Log. a	Autorität
178° 54' 57.1	15° 55' 27.6	15° 27' 11.7	770.8841	0.4420117	A. Berberich.
84 21 28.4	8 34 3.0	12 50 33.9	930.2275	0.3876117	Prof. L. Becker.
264 44 16.3	3 27 42.6	9 38 32.6	1084.7577	0.3431159	Prof. A. Prey.
131 15 10.2	3 42 4.2	8 48 10.9	941.7363	0.3840515	Powalky.
148 7 49.1	6 35 22.7	4 44 11.6	791.0695	0.4345280	Oberstl. Richter.
181 25 54.1	2 17 33.5	9 35 32.3	884.5855	0.4021779	Prof. Karlinski.
4 3 41.5	5 0 34.6	7 42 46.5	726.7211	0.4590926	Powalky.
184 42 28.7	6 30 28.0	3 30 16.7	645.5014	0.4934063	Powalky.
289 40 40.8	3 8 26.3	12 52 28.4	648.4530	0.4920854	Powalky.
173 47 19.2	2 48 31.7	16 45 58.0	823.5561	0.4228757	Powalky.
175 52 45.4	9 57 16.2	3 51 23.3	975.1593	0.3739540	A. Berberich.
129 49 21.9	7 26 18.3	6 31 44.8	651.8134	0.4905889	Murmann.
143 54 57.8	5 7 29.0	11 56 45.7	837.9945	0.4178437	Tietjen.
313 53 45.7	11 47 33.9	11 31 49.2	795.5362	0.4328971	Herm. Schultz.
11 5 29.9	7 13 21.5	8 18 56.3	774.4612	0.4406713	Prof. Moeller.
194 2 28.2	8 3 13.9	13 24 3.3	846.1050	0.4150549	Prof. R. Luther.
200 1 43.4	15 11 43.8	6 49 36.3	635.2903	0.4980229	Adolph.
161 19 50.3	5 1 50.5	2 26 21.8	799.5964	0.4314238	Oppolzer.
170 49 39.2	8 36 57.8	6 44 2.7	793.9788	0.4334651	Oppolzer.
191 53 22.7	3 35 6.7	10 34 22.7	958.2244	0.3790263	C. H. F. Peters.
334 15 0.8	18 14 58.7	9 29 23.8	688.3554	0.4747959	Prof. R. Luther.
125 59 38.4	2 12 18.6	10 6 47.4	642.5659	0.4947260	Oppolzer.
337 58 3.7	5 47 11.4	7 17 58.7	957.1671	0.3793459	Tietjen.
310 50 59.6	1 19 34.2	7 17 59.7	807.9036	0.4284314	Oppolzer.
158 48 22.8	3 28 43.4	5 51 5.0	556.3938	0.5364162	Fritsche.
8 17 30.6	3 4 58.6	10 3 43.4	824.7740	0.4224477	Maywald.
202 55 26.2	5 59 14.6	10 47 54.5	942.3560	0.3838611	Frischauf.
44 42 44.5	7 58 21.8	10 39 16.0	763.4868	0.4448033	Th. Wolff.
186 40 56.4	8 29 52.2	9 39 2.0	689.6731	0.4742422	Dr. Kowalczyk.
48 15 50.9	11 38 20.8	10 22 15.9	838.9960	0.4174978	Oberstl. Richter.
316 22 37.2	23 16 53.8	9 57 51.8	775.1865	0.4404003	Prof. E. Becker.
207 54 6.8	5 23 56.2	6 56 42.6	1040.3544	0.3552169	C. H. F. Peters.
7 35 28.1	2 24 13.1	2 34 3.9	816.0117	0.4255401	Powalky.
197 44 15.2	4 0 26.4	13 43 0.6	764.6230	0.4443728	Maywald.
359 58 28.1	4 59 51.2	17 45 42.2	812.4299	0.4268137	Stockwell.
212 10 57.8	2 2 45.5	9 44 21.2	562.3352	0.5333409	Murmann.
2 4 10.7	2 27 29.8	7 38 43.5	813.8298	0.4263153	Dr. Plath.
333 51 33.1	8 41 18.7	12 5 4.7	837.1977	0.4181191	Prof. v. Dubjago.
206 38 20.1	4 36 12.4	11 0 31.8	927.2856	0.3885287	Dr. Lachmann.
218 40 52.1	8 37 21.0	11 34 29.9	1020.1090	0.3609067	Oberstl. v. d. Groeben.

Nr. und Name	Opposition		m_0	g	Epoche und Osculation	Mittl. Aequ.	M			ω		
	1900	Gr.										
81 Terpsichore	März 10	12.2	11.8	8.2	1897 Juli 18.0	1900.0	260	37	9.1	46	14	45.4
82 Alkmene . .	Sept. 16	12.0	11.2	7.8	1900 Sept. 11.0	1900.0	236	55	47.1	107	7	48.0
83 Beatrix . . .	Aug. 20	11.6	11.3	8.6	1891 Jan. 11.0	1900.0	295	16	6.4	163	24	10.4
84 Klio	Febr. 23	12.6	11.3	8.8	1897 April 29.0	1900.0	252	50	4.7	12	50	33.4
85 Io	Dec. 2	11.0	10.9	7.7	1889 Febr. 10.0	1900.0	180	9	35.1	120	16	29.3
86 Semele . . .	Febr. 16	12.7	12.4	8.3	1896 Mai 4.0	1900.0	203	38	24.5	300	25	0.9
87 Sylvia . . .	Sept. 20	11.4	11.9	7.2	1898 April 24.0	1900.0	236	42	47.7	265	34	8.9
88 Thisbe . . .	—	—	10.8	7.4	1889 Dec. 27.0	1900.0	25	33	30.8	30	51	35.1
89 Julia	—	—	10.1	7.1	1889 Dec. 27.0	1900.0	237	15	2.3	42	50	30.0
90 Antiope . .	Nov. 7	11.7	11.6	7.5	1898 April 4.0	1900.0	277	45	51.5	231	43	15.5
91 Aegina . . .	Dec. 60	12.4	11.3	8.2	1895 Oct. 17.0	1900.0	301	7	37.1	71	47	2.1
92 Undina . . .	April 29	11.0	10.9	6.7	1896 Sept. 1.0	1900.0	30	19	59.7	222	11	3.2
93 Minerva . .	Dec. 11	11.5	10.8	7.4	1897 Jan. 19.0	1900.0	213	22	8.2	270	51	58.5
94 Aurora . . .	Juli 27	11.4	11.3	7.1	1883 Juli 12.0	1900.0	256	3	4.3	45	22	31.8
95 Arethusa . .	—	—	11.3	7.3	1897 April 29.0	1900.0	187	44	18.9	150	12	20.9
96 Aegle . . .	Febr. 12	10.5	11.4	7.4	1897 Sept. 16.0	1900.0	182	59	36.0	200	34	38.9
97 Klotho . . .	Juni 23	11.7	10.6	7.4	1898 Jan. 14.0	1900.0	21	4	31.9	264	36	3.6
98 Ianthe . . .	Aug. 1	12.4	11.6	8.3	1897 Nov. 15.0	1900.0	283	55	20.7	155	6	36.5
99 Dike	Jan. 24	14.5	14	10.5	1868 Juni 5.0	1890.0	350	36	11	198	52	26
100 Hekate . . .	Mai 24	11.3	11.9	7.8	1898 Jan. 14.0	1900.0	156	19	38.0	176	49	22.9
101 Helena . . .	März 27	11.2	10.7	7.6	1897 Aug. 27.0	1900.0	8	56	38.1	343	58	29.0
102 Miriam . . .	Jan. 5	12.8	12.6	9.4	1898 Juli 13.0	1900.0	319	11	42.8	143	39	2.3
103 Hera	Dec. 28	10.5	10.2	6.9	1897 Febr. 8.0	1900.0	173	11	18.9	185	58	23.1
104 Klymene . .	Juni 1	12.9	12.2	8.0	1897 Dec. 25.0	1900.0	35	9	54.6	19	59	38.3
105 Artemis . .	April 6	10.3	11.1	8.5	1897 Aug. 27.0	1900.0	69	55	41.8	54	43	29.2
106 Dione . . .	Mai 8	12.1	11.3	7.2	1900 April 14.0	1900.0	204	55	38.9	323	11	43.3
107 Camilla . .	Sept. 23	11.3	11.2	6.5	1891 April 21.0	1900.0	97	7	57.4	293	58	0.6
108 Hecuba . . .	Sept. 15	12.2	11.7	7.4	1900 Sept. 1.0	1900.0	183	56	17.6	175	3	9.5
109 Felicitas . .	Oct. 6	10.3	12.0	8.7	1898 Jan. 14.0	1900.0	115	33	32.5	52	23	0.4
110 Lydia . . .	—	—	10.5	7.1	1888 Febr. 16.0	1900.0	197	35	50.6	279	6	17.0
111 Ate	Nov. 2	11.0	11.3	8.2	1890 Jan. 16.0	1900.0	91	26	4.4	163	35	29.2
112 Iphigenia .	Juli 27	10.8	11.5	8.8	1897 Dec. 25.0	1900.0	88	12	11.4	14	8	43.2
113 Amalthea .	Jan. 27	10.8	11.0	8.4	1900 Jan. 24.0	1900.0	296	3	39.4	76	59	14.4
114 Kassandra .	Jan. 31	10.3	11.1	7.8	1889 Sept. 18.0	1900.0	211	30	3.4	348	48	21.0
115 Thyra . . .	Juni 24	10.9	10.4	7.8	1897 Oct. 6.0	1900.0	340	57	26.1	94	2	54.5
116 Sirona . . .	—	—	10.7	7.3	1889 Juni 10.0	1900.0	158	3	13.7	89	5	27.1
117 Lomia . . .	März 21	11.5	11.4	7.5	1897 Oct. 6.0	1900.0	332	35	55.4	48	38	21.5
118 Peitho . . .	Juli 31	11.3	10.8	8.1	1900 Juli 23.0	1900.0	239	56	50.6	31	24	54.4
119 Althaea . .	—	—	10.6	7.5	1898 Aug. 2.0	1900.0	314	33	34.0	168	35	13.5
120 Lachesis . .	Mai 3	11.4	11.7	7.6	1897 Nov. 15.0	1900.0	202	19	20.3	238	31	18.5

Ω	i	φ	μ	Log. a	Autorität
2° 26' 3.2	7° 55' 0.8	12° 11' 52.3	736.4126	0.4552583	Maywald.
26 30 48.7	2 51 15.8	12 51 55.9	773.3986	0.4410688	Dr. W. Luther.
27 39 29.7	4 59 45.5	4 51 24.3	935.9122	0.3858476	Prof. E. Becker.
327 31 22.2	9 21 24.6	13 40 0.3	977.4411	0.3732774	Prof. Neugebauer.
203 46 47.4	11 53 51.6	11 10 33.7	821.0524	0.4237571	Oberstl. v. d. Groeben.
87 54 38.5	4 47 37.3	12 46 54.2	650.4530	0.4911938	Oberstl. v. d. Groeben.
75 7 59.2	10 53 1.0	5 26 44.5	545.3288	0.5422321	Oberstl. v. d. Groeben.
277 42 47.1	5 14 53.7	9 26 6.4	771.1774	0.4419015	Dr. Kowalczyk.
311 52 22.1	16 12 28.5	10 33 29.3	871.5645	0.4064714	Th. Wolff.
71 13 4.8	2 16 17.0	8 53 22.1	632.5389	0.4992796	Maywald.
10 57 44.3	2 8 21.7	6 5 9.2	851.5394	0.4132012	Oberstl. v. d. Groeben.
102 55 42.7	9 55 52.0	5 35 51.8	622.7897	0.5037768	Dr. Anderson.
4 56 14.6	8 35 23.4	8 1 55.7	775.6316	0.4402341	Prof. P. Lehmann.
4 25 0.9	8 4 14.0	4 44 18.3	630.6584	0.5001416	Leppig.
244 1 45.9	12 55 10.2	8 49 13.9	661.2229	0.4864391	Prof. Schur.
322 38 39.2	16 2 20.5	7 39 35.3	663.1502	0.4855965	L. Schulhof.
160 48 52.0	11 45 33.9	14 51 9.7	813.5778	0.4264050	Maywald.
354 17 48.6	15 33 54.4	10 50 24.7	805.3408	0.4293513	Oberstl. v. d. Groeben.
42 1 35	13 53 24	13 47 30	758.662	0.44664	Loewy u. Tisserand.
128 18 46.9	6 23 10.8	9 31 58.5	653.5823	0.4898043	Dr. Stark.
343 34 25.3	10 10 28.2	8 1 10.2	854.8620	0.4120737	Oberstl. v. d. Groeben.
211 30 18.2	5 5 28.2	14 44 31.2	817.8380	0.4248929	C. H. F. Peters.
136 18 9.4	5 24 36.7	4 30 21.3	798.0990	0.4319669	Leveau.
43 6 17.3	2 52 51.5	8 32 48.6	632.5948	0.4992527	A. Berberich.
188 6 29.5	21 30 59.6	10 6 59.0	970.4600	0.3753527	Prof. A. Leman.
63 13 27.4	4 37 1.1	9 33 38.8	629.1696	0.5008259	A. Berberich.
176 5 37.5	9 51 44.3	3 56 39.0	544.1827	0.5428412	Dr. Matthiessen.
352 23 46.1	4 23 32.6	6 2 52.0	617.8856	0.5060657	L. Schulhof.
4 34 5.3	8 0 56.7	17 12 53.0	799.9088	0.4313108	Oberstl. v. d. Groeben.
57 21 12.6	5 59 43.0	4 37 36.1	785.9425	0.4364105	H. Oppenheim.
306 30 48.3	4 56 17.0	5 58 35.2	849.9712	0.4137349	Dr. Holetschek.
324 4 8.9	2 37 5.2	7 25 29.0	934.8048	0.3861905	Tietjen.
123 14 23.8	5 2 3.9	5 1 18.0	969.0731	0.3757667	Dr. W. Luther.
164 32 42.0	4 53 58.4	7 55 32.6	810.5220	0.4274945	Dr. F. Anton.
309 11 11.8	11 35 33.0	11 5 7.8	966.3219	0.3765898	Watson.
64 34 59.8	3 35 8.7	8 3 59.9	770.3736	0.442203	H. Oppenheim.
349 32 55.0	14 56 16.5	1 31 51.9	685.2178	0.4761187	Tietjen.
47 35 7.8	7 46 29.3	9 23 46.9	932.7235	0.3868358	Dr. Holetschek.
203 49 19.0	5 44 19.9	4 42 49.9	855.7364	0.4117777	A. Berberich.
342 37 18.6	7 0 12.0	3 30 1.0	645.4399	0.4934339	Dr. Plath.

Nr. und Name	Opposition		m _o	g	Epoche und Osculation	Mittl. Aequ.	M	ω
	1900	Gr.						
121 Hermione . .	Dec. 3	11.0	11.2	6.6	1900 Nov. 20.0	1900.0	57° 32' 29.1	280° 13' 19.1
122 Gerda	Juni 2	11.3	11.5	7.2	1900 Mai 24.0	1900.0	55 49 33.7	16 1 28.9
123 Brunhild . .	—	—	11.8	8.5	1898 Juni 23.0	1900.0	210 35 25.0	122 14 47.2
124 Alkeste . . .	Jan. 4	10.6	10.3	7.1	1890 Dec. 2.0	1900.0	180 26 7.9	58 14 55.4
125 Liberatrix .	Nov. 30	11.6	11.2	7.8	1897 Jan. 19.0	1900.0	202 46 5.6	104 32 50.8
126 Velleda . . .	—	—	11.5	8.8	1899 Dec. 15.0	1900.0	81 59 24.9	325 45 47.1
127 Johanna . . .	Dec. 27	10.2	10.5	7.1	1890 Oct. 3.0	1900.0	251 23 46.9	90 26 1.5
128 Nemesis . . .	—	—	10.6	7.2	1897 Jan. 19.0	1900.0	144 20 2.3	300 33 17.2
129 Antigone . .	Nov. 25	11.3	10.3	6.6	1897 Jan. 19.0	1900.0	253 10 0.2	103 42 13.1
130 Elektra . . .	Jan. 13	10.5	10.6	6.5	1898 Aug. 22.0	1900.0	337 5 55.3	233 45 56.0
131 Vala	Aug. 5	12.2	12.2	9.5	1898 Dec. 20.0	1900.0	288 37 28.9	155 55 32.5
132 Aethra	Jan. 28	8.7	11.1	8.0	1895 Nov. 30.5	1900.0	330 47 37.2	252 15 8.1
133 Cyrene	Sept. 21	11.5	11.3	7.3	1898 Jan. 14.0	1900.0	280 4 53.4	283 57 53.9
134 Sophrosyne .	März 29	11.4	11.1	8.1	1897 Juli 18.0	1900.0	235 51 37.8	81 26 4.1
135 Hertha	Jan. 27	11.5	10.5	7.8	1898 Oct. 1.0	1900.0	33 3 56.2	337 8 16.8
136 Austria	Dec. 36	11.7	11.2	8.9	1898 März 15.0	1900.0	211 14 20.2	130 29 0.4
137 Meliboea . .	Jan. 12	12.8	11.8	7.7	1898 Nov. 10.0	1900.0	80 12 0.8	105 36 1.8
138 Tolosa	Febr. 23	12.7	11.8	9.1	1896 Febr. 14.0	1900.0	190 23 49.0	258 2 25.2
139 Juewa	Mai 10	10.4	10.9	7.4	1898 Nov. 30.0	1900.0	299 0 11.9	162 8 46.4
140 Siwa	April 25	11.0	11.4	8.0	1898 Oct. 1.0	1900.0	173 35 23.3	193 10 59.4
141 Lumen	—	—	11.4	8.2	1890 Aug. 24.0	1900.0	321 2 54.7	54 13 48.3
142 Polana	Dec. 18	12.7	12.2	9.5	1896 Dec. 10.0	1900.0	211 12 47.7	290 0 26.5
143 Adria	Sept. 29	12.8	12.4	9.0	1891 Oct. 18.0	1900.0	160 45 41.3	248 47 54.2
144 Vibilia	April 1	11.9	10.7	7.5	1888 Juli 18.0	1900.0	289 54 28.9	290 44 14.9
145 Adeona	Jan. 11	10.5	11.3	8.1	1898 Aug. 22.0	1900.0	240 12 41.7	40 32 42.2
146 Lucina	—	—	11.1	7.7	1898 Aug. 2.0	1900.0	89 1 10.2	140 57 15.8
147 Protogeneia .	—	—	12.5	8.4	1898 Sept. 11.0	1900.0	348 52 28.8	122 48 3.8
148 Gallia	Jan. 15	10.6	11.0	7.5	1900 Jan. 24.0	1900.0	60 23 35.9	250 58 41.6
149 Medusa	Mai 29	13.4	12.9	11.0	1900 Mai 24.0	1900.0	200 8 29.0	249 43 18.4
150 Nuwa	Juli 15	11.1	11.6	7.7	1893 März 1.0	1900.0	155 36 25.8	146 42 52.7
151 Abundantia .	Nov. 5	11.8	11.7	8.6	1896 Nov. 20.0	1900.0	255 13 12.2	131 0 0.9
152 Atala	April 8	12.4	12.2	8.1	1899 Jan. 29.0	1900.0	27 31 7.9	42 36 44.3
153 Hilda	Dec. 31	13.4	12.6	7.3	1901 Jan. 19.0	1900.0	178 32 13.6	54 47 13.4
154 Bertha	Jan. 31	11.2	12.2	7.0	1900 Jan. 4.0	1900.0	290 52 56.2	161 15 28.8
155 Scylla	Dec. 2	11.9	13.5	9.8	1875 Nov. 8.5	1890.0	339 4 47	39 9 28
156 Xanthippe . .	Aug. 18	13.1	11.9	7.9	1875 Nov. 27.5	1900.0	286 31 33.6	269 45 21.1
157 Dejanira . . .	Dec. 18	13.3	14.7	11.6	1875 Dec. 27.5	1900.0	340 48 39.7	43 53 50.3
158 Koronis	—	—	12.3	8.7	1898 Aug. 22.0	1900.0	278 50 53.8	138 47 33.9
159 Aemilia	Mai 24	12.6	12.3	8.2	1897 Dec. 5.0	1900.0	324 40 17.3	331 52 26.4
160 Una	Juli 9	12.0	11.8	8.4	1897 Dec. 25.0	1900.0	33 30 8.8	46 47 11.5

Ω	i	φ	μ	Log. a	Autorität
76° 42' 14.7	7° 34' 51.6	7° 59' 0.0	554.6699	0.5373147	A. Berberich.
178 44 48.9	1 36 30.9	2 58 8.0	614.0713	0.5078585	H. Lange.
308 29 36.1	6 25 24.3	7 1 21.7	802.5894	0.4303421	A. Berberich.
188 28 29.7	2 55 33.8	4 27 41.2	832.2976	0.4198186	Prof. Hall sen.
169 28 0.9	4 38 1.7	4 29 45.0	780.9349	0.4382611	H. Lange.
23 19 47.4	2 56 23.6	6 3 49.4	931.5174	0.3872104	Oberstl. v. d. Groeben.
31 45 41.1	8 15 39.0	3 47 29.9	775.8987	0.4401344	Maywald.
76 37 27.9	6 15 7.7	7 13 52.8	778.9624	0.4389934	Dr. de Ball.
137 50 3.1	12 10 5.6	12 15 18.0	730.5585	0.4575677	Austin.
146 8 24.2	22 58 6.0	12 29 21.9	646.4298	0.4929901	Powalky.
65 29 50.6	4 57 45.6	3 51 52.5	935.8550	0.3858654	A. Berberich.
260 2 56.6	23 32 20.3	19 21 13.8	903.6882	0.3959920	Dr. W. Luther.
321 17 10.0	7 13 46.2	8 2 47.1	662.6045	0.4858348	Oberstl. v. d. Groeben.
346 19 4.3	11 36 9.5	6 43 11.6	864.4642	0.4088397	Maywald.
344 4 53.8	2 18 29.8	11 45 17.6	937.0637	0.3854917	Maywald.
186 12 30.0	9 33 16.6	4 52 0.8	1025.7532	0.3593092	H. Oppenheim.
203 39 7.8	13 21 11.9	12 46 22.0	645.4607	0.4934245	H. Lange.
54 46 47.0	3 13 19.7	9 16 35.8	924.9117	0.3892709	Oberstl. v. d. Groeben.
2 24 42.8	10 55 14.3	9 57 48.4	764.0768	0.4445797	A. Berberich.
107 7 8.1	3 11 31.2	12 31 19.9	786.6737	0.4361413	Oberstl. v. d. Groeben.
319 19 51.6	11 58 35.4	12 16 57.4	814.6615	0.4260196	A. Berberich.
291 51 30.9	2 14 26.9	7 44 10.6	943.5246	0.3835023	Prof. L. Becker.
333 46 15.4	11 30 8.9	4 8 20.2	773.3958	0.4410699	von Haerdtl.
76 53 48.3	4 48 16.3	13 28 14.3	819.4849	0.4243104	Powalky.
77 47 51.1	12 41 9.8	8 24 20.6	812.2212	0.4268915	Tietjen.
84 18 41.5	13 5 8.8	3 39 14.6	791.4186	0.4344003	A. Berberich.
251 10 53.0	1 54 16.5	2 2 8.6	638.8069	0.4964247	Prof. L. Becker.
145 10 48.7	25 20 40.3	10 42 16.6	769.6223	0.4424860	Prof. L. Becker.
158 40 24.6	0 55 44.4	3 50 11.2	1105.8897	0.3375299	H. Lange.
207 40 28.0	2 8 22.3	7 20 7.3	689.2534	0.474418	H. Oppenheim.
38 54 32.6	6 28 11.9	2 9 0.7	850.8980	0.4134194	Oberstl. v. d. Groeben.
41 16 53.9	12 13 18.0	4 12 12.4	637.2942	0.4971111	H. Lange.
228 21 15.3	7 51 44.1	9 31 9.8	449.9321	0.5979065	Dr. Kühnert.
37 21 31.9	20 54 29.3	4 39 8.1	622.4711	0.5039249	Dr. Anton.
43 4 14	14 4 25	14 49 28	713.7875	0.464292	L. Schulhof.
246 32 22.5	7 28 34.7	15 17 23.2	670.230	0.482522	Dr. A. Schmidt.
62 46 20.9	12 2 7.9	12 8 59.6	854.8040	0.4120934	Prof. A. Leman.
280 59 33.3	0 59 59.3	3 17 38.9	730.4848	0.4575969	Maywald.
135 4 8.9	6 4 58.6	5 37 45.9	647.4107	0.492551	A. Berberich.
9 16 50.3	3 51 17.9	3 45 8.1	787.7290	0.435753	Prof. Neugebauer.

Nr. und Name	Opposition		m.	g	Epoche und Osculation	Mittl. Aequ.	M			ω
	1900	Gr.								
161 Athor	—	—	11.0	8.4	1896 Dec. 30.0	1900.0	142° 39'	1.6	291° 48'	21.8
162 Laurentia . .	Nov. 24	12.0	12.3	8.4	1899 Sept. 6.0	1900.0	215 30 54.3		106 2	12.0
163 Erigone . . .	—	—	12.0	9.5	1899 Aug. 17.0	1900.0	244 4 42.0		295 32	50.9
164 Eva	März 3	12.4	11.5	8.3	1900 Febr. 13.0	1900.0	127 58 28.1		281 50	6.4
165 Loreley . . .	Dec. 32	11.5	11.1	7.0	1897 April 9.0	1900.0	290 21 20.7		342 30	31.3
166 Rhodope . . .	Jan. 25	12.2	12.5	9.2	1897 Juni 8.0	1900.0	213 52 27.9		261 28	34.0
167 Urda	Aug. 12	12.8	13.0	9.4	1898 Jan. 14.0	1900.0	197 17 5.7		121 7	27.8
168 Sibylla	Juli 21	11.5	11.6	7.1	1899 Mai 29.0	1900.0	218 22 50.2		174 27	5.8
169 Zelia	März 3	12.0	11.3	8.8	1890 Aug. 4.0	1900.0	328 1 8.3		332 10	48.0
170 Maria	Nov. 17	11.5	11.7	8.7	1900 Nov. 20.0	1900.0	325 25 32.4		155 58	47.2
171 Ophelia	April 9	11.6	12.1	8.0	1897 Oct. 6.0	1900.0	236 0 17.5		50 25	52.0
172 Baucis	Juni 23	10.0	10.4	7.8	1889 Juni 30.0	1900.0	316 43 41.4		356 48	38.4
173 Ino	Oct. 24	9.8	11.0	7.6	1897 Jan. 19.0	1900.0	71 13 19.6		224 39	33.8
174 Phaedra	April 1	11.2	11.6	8.0	1897 Oct. 6.0	1900.0	129 24 10.1		286 21	28.5
175 Andromache . .	Sept. 19	11.2	12.3	8.0	1900 Mai 24.0	1900.0	359 9 23.4		301 33	41.9
176 Idunna	Nov. 11	10.2	12.1	7.9	1900 Nov. 20.0	1900.0	18 26 49.8		182 37	23.7
177 Irma	Oct. 25	10.9	12.4	9.0	1897 Jan. 19.0	1900.0	71 42 48.0		33 16	24.6
178 Belisana	Oct. 18	12.1	12.0	9.2	1900 Oct. 11.0	1900.0	115 12 44.4		212 7	59.0
179 Klytämnestra	März 15	12.1	11.5	7.7	1897 Oct. 6.0	1900.0	14 32 37.3		100 30	36.1
180 Garumna . . .	—	—	13.3	9.9	1899 Nov. 5.0	1900.0	308 53 34.6		169 15	49.3
181 Eucharis	Febr. 9	10.5	11.5	7.4	1887 Oct. 19.0	1900.0	305 49 36.6		310 26	13.3
182 Elsa	—	—	11.0	8.3	1897 März 20.0	1900.0	102 51 45.1		308 14	46.6
183 Istria	Dec. 17	10.7	12.6	9.1	1900 Dec. 10.0	1900.0	15 47 41.4		262 25	52.0
184 Dejopeja . . .	—	—	12.4	8.2	1901 März 20.0	1900.0	1 33 52.9		204 47	47.4
185 Eunike	Jan. 0	10.3	10.4	7.0	1889 Aug. 29.0	1900.0	328 8 9.8		221 35	39.2
186 Celuta	April 25	11.6	11.4	8.9	1897 Aug. 27.0	1900.0	2 39 38.6		313 36	19.9
187 Lamberta . . .	Jan. 13	11.4	11.4	8.0	1897 Aug. 27.0	1900.0	94 42 30.1		192 2	34.6
188 Menippe	Febr. 18	13.5	13.0	9.6	1897 Sept. 1.0	1897.0	23 1 52.2		66 37	4.1
189 Phthia	Mai 21	12.2	11.5	8.8	1900 Mai 24.0	1900.0	234 17 27.2		166 0	35.8
190 Ismene	Juli 29	12.7	12.0	6.7	1900 Juli 23.0	1900.0	212 25 24.5		286 18	31.4
191 Kolga	Jan. 30	12.1	12.0	8.3	1897 Juli 18.0	1900.0	271 52 28.4		224 21	6.3
192 Nausikaa . . .	—	—	9.3	6.7	1888 Juli 25.0	1900.0	324 20 18.4		27 40	31.7
193 Ambrosia . . .	April 7	12.9	12.2	9.2	1879 März 25.5	1890.0	68 48 35.8		79 36	57.9
194 Prokne	März 10	11.5	10.5	7.4	1899 Jan. 29.0	1900.0	130 9 24.2		160 37	14.6
195 Eurykleia . . .	Aug. 24	12.4	12.3	8.6	1896 Nov. 20.0	1900.0	289 6 35.6		118 6	40.4
196 Philomela . . .	Jan. 11	10.5	10.3	6.3	1898 Nov. 10.0	1900.0	81 59 4.9		237 53	16.3
197 Arete	Jan. 10	13.3	12.7	9.3	1900 Jan. 24.0	1900.0	134 40 9.5		243 28	16.7
198 Ampella	—	—	11.1	8.3	1901 Jan. 19.0	1900.0	145 38 12.0		87 26	9.6
199 Byblis	Jan. 18	13.1	12.4	8.2	1900 Jan. 4.0	1900.0	227 27 1.0		172 2	4.9
200 Dynamene . . .	März 22	11.5	11.0	7.6	1889 Dec. 27.0	1900.0	30 58 9.6		82 42	28.9

Ω	i	φ	μ	Log. a	Autorität
18° 40' 42.3	9° 3' 13.4	7° 57' 23.4	967.0645	0.3763675	Tietjen.
38 8 9.9	6 5 2.6	10 31 5.3	676.5719	0.4797951	Tietjen.
160 II 30.1	4 46 53.0	II 1 5.2	976.7787	0.3734736	A. Berberich.
77 36 9.5	24 24 25.5	20 18 45.1	831.0764	0.4202438	Oberstl. Richter.
304 2 38.3	II 12 2.0	3 54 10.6	641.1299	0.4953737	Dr. Samter.
129 31 20.8	12 1 58.2	12 13 13.9	806.7683	0.4288385	Oberstl. Richter.
166 30 4.3	2 10 50.3	1 59 3.7	736.5954	0.4551851	H. Lange.
209 14 59.7	4 36 10.3	4 21 54.0	571.6864	0.5285658	Oberstl. v. d. Groeben.
354 49 46.7	5 30 46.5	7 31 33.7	979.6462	0.3726249	Oberstl. Richter.
301 23 29.8	14 21 59.6	3 44 28.8	869.2225	0.4072505	H. Lange.
100 57 12.2	2 33 13.5	6 38 28.6	636.3859	0.4975241	A. Berberich.
332 3 2.5	10 2 6.0	6 32 18.8	965.9899	0.3766893	A. Berberich.
148 44 52.2	14 15 41.1	II 51 44.6	780.8006	0.4383110	Dr. Becka.
328 40 0.4	12 6 28.6	8 23 43.8	734.0156	0.456201	H. Oppenheim.
25 23 51.1	3 10 40.0	II 7 48.8	612.3316	0.5086799	A. Berberich.
201 1 6.6	22 41 14.3	10 1 24.6	626.2924	0.5021529	Prof. P. Neugebauer.
349 25 24.5	1 26 50.6	13 32 58.0	768.8406	0.4427802	Oberstl. Richter.
50 56 17.2	1 54 30.3	2 28 36.0	918.5627	0.3912652	A. Berberich.
253 II 54.0	7 47 53.7	6 37 0.0	692.8578	0.472908	H. Oppenheim.
314 38 27.4	0 53 37.2	9 46 17.7	790.4612	0.4347501	Oberstl. v. d. Groeben.
144 59 6.3	18 35 27.7	12 40 26.5	643.5438	0.4942856	Dr. de Ball.
106 40 11.0	2 10 10.9	10 50 51.9	944.5132	0.3831990	Dr. Samter.
142 49 11.3	26 26 6.4	20 19 26.5	760.5455	0.4459209	Prof. Donner.
334 35 3.6	1 11 19.6	3 24 23.1	622.6844	0.5038304	Pfarrer Thraen.
153 54 58.7	23 14 23.2	7 11 6.0	782.8646	0.4375466	Oberstl. v. d. Groeben.
14 35 38.0	13 11 7.2	8 41 21.3	977.5884	0.3732337	Tietjen.
22 14 21.7	10 41 20.6	13 36 43.5	785.6152	0.4365311	Prof. A. Leman.
241 45 5.2	11 44 38.6	10 15 28.9	772.712	0.441326	J. Coniel.
203 23 22.8	5 8 58.3	2 4 18.4	924.2246	0.3894861	H. Oppenheim.
176 56 27.2	6 8 20.3	9 33 57.2	455.1028	0.5945981	Prof. Küstner.
159 50 50.8	11 29 30.2	5 13 5.0	720.0541	0.4617609	Prof. L. Becker.
343 24 55.7	6 51 36.0	14 9 22.7	952.4502	0.3807762	H. Lange.
351 23 45.9	11 38 37.1	16 34 52.0	858.2960	0.410913	Prof. A. Leman.
159 20 49.2	18 25 9.5	13 50 55.7	839.1447	0.4174465	Tietjen.
7 44 8.9	7 0 5.6	2 25 31.5	727.0472	0.4589627	Oberstl. v. d. Groeben.
73 20 8.1	7 16 57.8	1 10 59.6	645.2604	0.4935145	Tietjen.
82 2 18.3	8 49 20.6	9 22 12.5	782.6498	0.4376327	Oberstl. v. d. Groeben.
268 30 0.7	9 18 55.2	13 6 24.6	920.1134	0.3907768	Oberstl. v. d. Groeben.
89 43 9.9	15 25 3.2	10 17 26.5	629.4802	0.5006831	Tietjen.
325 26 20.0	6 54 42.4	7 42 34.1	783.2093	0.4374192	Oberstl. v. d. Groeben.

Nr. und Name	Opposition		m_0	g	Epoche und Osculation	Mittl. Aequ.	M			ω		
	1900	Gr.										
201 Penelope . .	April 20	12.3	11.9	8.6	1897 Nov. 15.0	1900.0	53	1	14.6	177	43	7.9
202 Chryseis . .	Aug. 9	11.2	10.7	6.7	1896 Nov. 20.0	1900.0	296	12	57.2	355	17	6.8
203 Pompeja . .	April 20	11.0	11.7	8.3	1899 Jan. 9.0	1900.0	65	39	8.5	53	45	40.9
204 Kallisto . . .	Juli 12	11.0	12.0	8.7	1888 Nov. 2.0	1900.0	140	55	19.4	51	16	43.4
205 Martha . . .	März 16	12.8	12.7	9.2	1886 Febr. 26.0	1900.0	139	40	10.2	172	8	57.2
206 Hersilia . . .	April 25	12.1	12.0	8.6	1887 Juni 21.0	1900.0	184	57	36.2	300	24	1.3
207 Hedda . . .	Dec. 5	11.5	11.8	9.5	1898 Febr. 3.0	1900.0	280	15	16.2	190	38	9.4
208 Lacrimosa . .	—	—	12.1	8.4	1899 Nov. 25.0	1900.0	315	23	43.1	105	47	29.6
209 Dido	Juli 3	11.3	11.6	7.5	1897 Dec. 25.0	1900.0	222	33	3.9	249	37	7.2
210 Isabella . . .	Mai 23	13.0	12.5	9.1	1897 Oct. 26.0	1900.0	358	48	23.3	10	17	7.0
211 Isolda	Nov. 5	10.6	11.5	7.5	1895 Nov. 26.0	1900.0	1	10	4.0	170	42	54.3
212 Medea	Nov. 21	11.5	12.2	8.1	1899 Juli 28.0	1900.0	276	2	57.4	101	16	47.5
213 Lilaea	Oct. 9	11.6	11.7	8.3	1898 Febr. 23.0	1900.0	229	20	37.9	158	34	56.7
214 Aschera . . .	—	—	12.1	9.0	1897 April 9.0	1900.0	71	25	59.3	128	5	59.2
215 Oenone . . .	Oct. 9	12.7	12.8	9.4	1891 Nov. 7.0	1890.0	55	44	10.3	314	3	11.3
216 Kleopatra . .	Juli 1	10.3	10.1	6.6	1886 Juni 26.0	1900.0	277	9	56.8	176	12	8.3
217 Eudora . . .	Nov. 28	13.3	13.1	9.5	1889 Mai 1.0	1900.0	296	55	48.4	150	23	31.7
218 Bianca	Jan. 20	11.5	11.3	8.1	1889 Oct. 8.0	1900.0	134	31	18.9	59	2	8.1
219 Thusnelda . .	Febr. 8	12.4	11.2	8.8	1889 Jan. 21.0	1900.0	130	33	20.7	140	3	56.2
220 Stephania . .	Dec. 21	13.8	13.6	11.0	1887 Jan. 0.5	1881.0	131	12	41.6	75	9	17.1
221 Eos	Sept. 10	10.6	11.2	7.3	1889 Juni 30.0	1900.0	322	54	24.2	187	21	38.9
222 Lucia	Juli 17	12.1	12.9	8.8	1898 Jan. 14.0	1900.0	225	34	56.4	175	50	37.7
223 Rosa	Juli 10	13.8	13.3	9.2	1891 Dec. 17.0	1900.0	333	11	14.5	58	36	24.6
224 Oceana	Juli 13	11.4	11.7	8.5	1890 Febr. 5.0	1900.0	225	24	48.8	276	55	27.3
225 Henrietta . .	Febr. 18	13.7	12.7	8.2	1897 Dec. 5.0	1900.0	107	58	34.0	97	59	44.8
226 Weringia . .	Sept. 10	12.3	13.0	9.7	1891 Aug. 19.0	1900.0	30	52	14.2	150	8	35.2
227 Philosophia .	Nov. 1	13.8	12.9	8.7	1896 Dec. 10.0	1900.0	283	51	33.6	254	29	54.3
228 Agathe	Jan. 6	15.3	14.5	12.4	1892 Nov. 21.5	1900.0	49	45	10.8	16	3	45.6
229 Adelinda . .	Juni 1	13.3	13.5	8.9	1900 Juni 13.0	1900.0	295	35	57.4	302	32	27.5
230 Athamantis .	Juli 5	10.3	10.3	7.7	1897 Oct. 26.0	1900.0	11	22	17.7	137	13	14.1
231 Vindobona . .	Febr. 3	12.7	12.4	8.6	1898 Nov. 10.0	1900.0	164	53	38.2	263	38	47.9
232 Russia	Juni 21	12.9	13.4	10.4	1898 Dec. 20.0	1900.0	278	44	40.1	48	16	14.3
233 Asterope . . .	März 27	11.8	11.3	8.1	1897 Aug. 27.0	1900.0	353	18	46.2	122	36	1.0
234 Barbara	Febr. 11	12.9	11.7	9.1	1898 Oct. 21.0	1900.0	33	57	10.0	190	6	49.6
235 Carolina . . .	März 6	12.3	12.2	8.5	1897 Sept. 16.0	1900.0	73	32	29.3	207	24	1.2
236 Honoria . . .	Dec. 1	12.0	11.4	7.9	1890 Aug. 20.5	1900.0	341	11	56.1	170	30	28.5
237 Coelestina . .	Dec. 48	12.0	12.8	9.4	1897 März 20.0	1900.0	258	3	0.9	196	24	10.8
238 Hypatia	Dec. 28	11.5	11.7	8.0	1899 Sept. 26.0	1900.0	327	11	49.3	207	5	36.7
239 Adrastea . . .	Nov. 28	13.1	14.2	10.4	1892 Febr. 15.0	1900.0	128	25	5.1	205	14	35.1
240 Vanadis . . .	Mai 2	13.5	12.5	9.3	1899 Febr. 18.0	1900.0	63	55	57.6	297	29	15.8

Ω	i	p	μ	Log. a	Autorität
157° 9' 13.8	5° 43' 19.3	10° 25' 29.0	809.8341	0.4277403	Oberstl. Richter.
137 46 20.6	8 49 30.7	5 51 45.4	659.4551	0.4872142	A. Berberich.
348 38 9.2	3 12 15.3	3 28 23.6	783.8637	0.4371774	A. Berberich.
205 53 55.1	8 17 7.5	9 51 34.4	812.2343	0.4268835	A. Palisa.
212 26 1.6	10 39 57.5	1 54 54.4	765.9190	0.4438825	Prof. Küstner.
145 25 45.0	3 45 29.5	2 19 59.5	782.3554	0.437735	Dr. Stechert.
28 58 10.3	3 48 59.9	1 39 3.3	1027.9888	0.3586788	Oberstl. Richter.
5 17 34.0	1 47 10.4	0 54 11.9	721.0639	0.4613553	A. Berberich.
2 0 10.2	7 14 28.1	3 46 48.0	636.9545	0.4972654	Oberstl. v. d. Groeben.
33 3 14.5	5 18 7.1	7 6 30.8	790.0977	0.4348838	A. Berberich.
265 19 9.6	3 52 0.4	9 15 38.7	668.6041	0.4832250	Oberstl. v. d. Groeben.
315 6 54.5	4 16 51.0	6 40 42.2	647.3973	0.4925571	Prof. L. Becker.
122 28 12.8	6 46 30.6	8 19 49.1	777.0010	0.4397237	Prof. A. Leman.
342 32 52.4	3 27 33.7	1 55 49.3	840.5265	0.4169701	Tietjen.
25 14 14.4	1 43 15.1	2 1 15.8	771.4078	0.4418151	Oberstl. v. d. Groeben.
216 0 17.8	13 2 25.9	14 31 20.7	759.7703	0.4462182	Prof. Knopf.
164 8 53.6	10 16 30.8	18 1 5.2	730.2884	0.4576747	Oberstl. Richter.
171 2 56.0	15 12 16.9	6 40 5.1	815.0438	0.4258837	Oberstl. v. d. Groeben.
200 56 29.1	10 47 21.0	12 54 38.9	982.2924	0.3718439	A. Darmer.
258 26 26.6	7 34 15.0	14 53 43.7	984.634	0.371154	Dr. Bidschof.
142 39 44.8	10 51 15.2	5 50 34.9	678.2597	0.4790737	Oberstl. v. d. Groeben.
80 22 0.5	2 10 46.6	8 27 39.8	641.7676	0.4950859	A. Berberich.
48 42 6.0	1 58 42.6	6 57 1.2	652.9374	0.4900900	Oberstl. v. d. Groeben.
353 31 34.5	5 52 23.2	2 25 51.0	824.6755	0.4224824	Dr. S. Oppenheim.
200 48 28.8	20 41 16.4	15 14 24.6	566.6635	0.531121	Dr. Cerulli.
135 30 54.5	15 49 34.2	11 43 4.3	793.2109	0.433745	Prof. H. Kreutz.
331 1 10.1	9 14 55.8	12 2 39.9	637.0300	0.4972311	H. Lange.
313 35 24.5	2 33 18.0	13 55 0.2	1086.2400	0.3427205	Prof. H. Kreutz.
30 51 0.6	2 9 20.9	8 16 3.0	560.7202	0.5341736	A. Berberich.
239 44 27.5	9 25 13.5	3 32 52.8	964.9093	0.3770134	Oberstl. Richter.
352 16 1.4	5 8 13.8	8 56 36.2	711.1049	0.4653820	H. Lange.
152 27 53.4	6 4 17.7	9 52 51.0	869.2983	0.4072251	Oberstl. v. d. Groeben.
222 31 21.5	7 39 7.6	5 49 43.8	817.9445	0.4248552	Prof. Knopf.
144 16 54.2	15 21 18.3	14 7 1.5	962.6609	0.3776889	Tietjen.
66 34 7.6	9 4 1.8	3 31 18.9	725.2712	0.4596708	Tietjen.
186 40 30.6	7 36 53.0	10 54 45.4	758.1024	0.446853	Dr. Bidschof.
84 36 28.9	9 45 48.8	4 1 30.3	771.8775	0.4416388	Dr. B. Schwarz.
184 22 9.7	12 23 32.5	5 9 26.4	716.0964	0.4633567	A. Berberich.
181 40 9.4	6 7 41.4	13 7 38.0	691.2906	0.4735639	A. Berberich.
114 57 18.1	2 5 50.1	12 6 26.6	816.6267	0.4253220	A. Berberich.

Nr. und Name	Opposition		m_0	g	Epoche und Osculation	Mittl. Aequ.	M		ω	
	1900	Gr.								
241 Germania . .	Sept. 23	10.7	11.2	7.2	1900 Sept. 21.0	1900.0	14° 20' 36.0	73° 8' 57.2		
242 Kriemhild. .	—	—	12.6	9.0	1889 Dec. 27.0	1900.0	307 49 54.4	274 28 30.0		
243 Ida	—	—	13.3	9.7	1899 Nov. 25.0	1900.0	6 39 30.9	104 43 37.8		
244 Sita	Nov. 14	13.0	13.7	11.7	1900 Nov. 20.0	1900.0	31 33 23.4	164 27 41.2		
245 Vera	Nov. 27	11.5	12.5	8.5	1897 März 20.0	1900.0	141 1 15.6	326 19 24.6		
246 Asporina . .	Oct. 14	12.0	11.7	8.4	1890 Jan. 16.0	1900.0	316 40 26.7	94 5 3.7		
247 Eukrate . . .	Juni 10	12.1	11.0	7.6	1900 Juni 13.0	1900.0	224 37 55.8	53 33 7.1		
248 Lameia . . .	März 9	12.9	13.0	10.2	1900 März 25.0	1900.0	293 0 27.6	2 20 6.9		
249 Ilse	Nov. 10	12.5	13.6	11.1	1896 Sept. 1.0	1900.0	332 23 24.0	39 16 10.3		
250 Bettina . . .	Mai 11	12.2	11.7	7.6	1897 Nov. 15.0	1900.0	332 5 23.0	65 59 32.9		
251 Sophia . . .	Juni 15	14.2	13.6	9.6	1900 Juni 13.0	1900.0	177 35 1.4	287 26 13.7		
252 Clementina .	Mai 7	13.2	13.0	8.8	1899 Febr. 18.0	1900.0	162 38 19.3	149 8 56.6		
253 Mathilde . .	Febr. 8	14.7	13.4	10.2	1898 Nov. 10.0	1900.0	55 7 48.0	153 43 45.8		
254 Augusta . .	Oct. 30	13.9	13.4	11.3	1887 Juli 31.0	1900.0	101 27 54.0	230 48 36.7		
255 Oppavia . .	Mai 29	13.7	13.8	10.4	1889 März 2.0	1900.0	267 18 9.8	149 8 2.5		
256 Walpurga . .	—	—	13.2	9.3	1899 Nov. 5.0	1900.0	187 50 13.9	43 9 32.0		
257 Silesia . . .	Dec. 19	12.1	12.8	8.7	1898 Juni 3.0	1900.0	212 13 25.8	27 40 46.7		
258 Tyche	Nov. 10	10.1	11.1	8.0	1899 Mai 29.0	1899.0	267 50 31.4	152 40 29.2		
259 Aletheia . .	—	—	12.1	8.0	1898 Sept. 11.0	1900.0	85 40 51.4	156 12 30.0		
260 Huberta . .	Dec. 10	13.9	13.9	9.2	1900 Dec. 10.0	1900.0	92 3 1.9	163 58 1.2		
261 Prymno . . .	Sept. 25	12.3	11.9	9.4	1897 Nov. 15.0	1900.0	275 46 18.1	63 6 35.9		
262 Valda	März 13	14.3	14.1	11.1	1900 März 5.0	1900.0	82 47 25.5	22 31 35.1		
263 Dresda . . .	Aug. 9	13.0	13.3	9.6	1900 Aug. 12.0	1900.0	309 25 24.3	157 46 54.0		
264 Libussa . . .	Oct. 13	11.3	12.1	8.6	1894 Juni 4.0	1900.0	224 30 49.9	336 35 29.0		
265 Anna	Oct. 30	15.3	13.8	11.1	1899 Aug. 17.0	1900.0	67 23 25.8	251 4 45.0		
266 Aline	März 4	12.4	11.7	8.2	1900 März 5.0	1900.0	131 44 0.5	147 59 21.3		
267 Tirza	Febr. 28	14.1	14.0	10.5	1898 Dec. 20.0	1900.0	167 41 8.3	193 39 22.8		
268 Adorea . . .	Nov. 4	13.1	12.5	8.5	1897 Febr. 28.0	1900.0	348 19 31.1	58 53 34.1		
269 Justitia . . .	Oct. 20	13.0	12.7	9.6	1900 Oct. 31.0	1900.0	91 35 3.3	115 30 59.1		
270 Anahita . . .	Oct. 5	10.2	11.0	8.9	1900 Sept. 21.0	1900.0	25 43 7.7	77 57 51.7		
271 Penthesilea .	März 8	13.5	12.8	8.9	1900 Febr. 13.0	1900.0	128 29 24.5	50 13 36.7		
272 Antonia . . .	Nov. 12	13.5	13.6	10.1	1899 Juli 28.0	1900.0	208 59 58.9	65 31 30.6		
273 Atropos . . .	Juli 29	10.7	11.6	9.0	1888 März 9.5	1900.0	261 20 1.8	118 28 18.0		
274 Philagoria .	Aug. 25	13.8	13.6	9.6	1899 Mai 29.0	1900.0	24 20 51.9	115 34 59.3		
275 Sapientia . .	Dec. 8	11.8	12.0	8.5	1897 Febr. 28.0	1900.0	354 20 18.0	31 13 26.7		
276 Adelheid . .	Juli 4	12.2	11.2	7.7	1899 Mai 9.0	1900.0	82 21 36.0	273 54 6.3		
277 Elvira	Dec. 4	12.9	13.1	9.4	1899 Aug. 17.0	1900.0	320 39 21.3	132 55 51.4		
278 Paulina . . .	—	—	12.7	9.3	1899 Nov. 5.0	1900.0	218 13 40.4	135 31 8.8		
279 Thule	Jan. 11	14.1	13.8	8.1	1891 Febr. 20.0	1900.0	155 36 48.8	233 20 26.5		
280 Philia	Febr. 11	14.0	14.4	10.6	1900 Febr. 13.0	1900.0	39 45 20.2	80 58 14.5		

Ω	i	φ	μ	Log. a	Autorität
271° 58' 58.6	5° 30' 43.9	5° 26' 42.5	665.7416	0.4844672	Dr. W. Luther.
208 7 41.0	11 16 55.9	7 5 15.3	732.9031	0.4566401	Dr. Herz.
326 2 47.5	1 9 18.5	2 42 32.2	733.0664	0.4565755	A. Berberich.
208 39 31.6	2 49 41.8	7 53 3.8	1106.6015	0.3373437	A. Berberich.
62 1 46.7	5 11 18.2	11 37 34.2	651.4943	0.4907307	Tietjen.
162 45 44.0	15 37 40.4	6 2 43.0	802.267	0.4304584	Seydler.
0 17 18.7	25 3 55.2	13 53 45.9	780.9440	0.4382578	Dr. W. Luther.
246 38 32.5	4 0 59.9	3 42 45.7	913.9068	0.3927365	A. Berberich.
334 49 10.0	9 41 8.0	12 28 25.6	967.8662	0.3761275	A. Berberich.
25 37 2.6	12 56 21.1	7 1 48.1	633.7875	0.4987086	Dr. Mönningmeyer.
156 54 32.8	10 28 30.6	5 31 47.2	648.5081	0.4920608	Prof. Knopf.
203 14 23.2	10 1 12.8	4 27 58.2	633.3155	0.4989244	A. Charlois.
180 1 26.7	6 38 17.9	15 26 37.5	824.4270	0.4225696	Prof. Knopf.
28 20 51.6	4 31 59.3	6 58 7.6	1091.0836	0.3414323	Dr. B. Schwarz.
14 13 57.4	9 30 38.6	4 40 24.1	780.0705	0.4385818	Dr. Laves.
183 38 24.5	13 18 0.2	3 29 45.6	682.1748	0.4774073	A. Berberich.
35 25 53.6	3 40 7.7	7 4 44.5	646.3454	0.4930280	A. Berberich.
207 44 4.1	14 14 46.5	11 48 8.5	838.4573	0.4176838	Dr. Stechert.
88 30 20.5	10 42 50.0	6 20 21.0	635.7631	0.4978075	Tietjen.
167 55 34.1	6 17 58.0	7 7 16.5	554.7196	0.5372887	Oberstl. v. d. Groeben.
96 20 56.7	3 38 28.8	5 9 55.6	996.7804	0.3676005	Oberstl. v. d. Groeben.
38 37 9.4	7 44 20.6	12 17 17.5	870.5130	0.4068209	A. Berberich.
217 38 21.7	1 16 57.4	4 19 24.9	723.1695	0.4605110	Oberstl. v. d. Groeben.
50 4 47.6	10 26 47.9	7 45 36.5	757.4897	0.447087	Dr. Cerulli.
335 24 48.6	25 43 0.0	15 12 47.2	941.4296	0.384146	A. Berberich.
236 26 12.2	13 22 8.3	9 9 53.6	756.4554	0.4474822	A. Berberich.
74 3 30.8	6 1 29.1	5 43 23.8	767.9409	0.4431192	Oberstl. v. d. Groeben.
121 47 20.9	2 25 23.5	7 54 36.0	652.1602	0.4904349	A. Berberich.
157 29 1.3	5 25 53.7	12 18 39.7	838.9442	0.4175157	A. Berberich.
254 31 28.8	2 21 39.6	8 37 15.6	1089.0147	0.3419819	A. Berberich.
337 5 18.0	3 34 39.1	5 56 35.1	681.3226	0.4777693	Prof. Knopf.
37 43 34.9	4 28 27.5	1 46 56.3	767.2554	0.4433777	A. Charlois.
158 58 44.0	20 24 5.4	9 19 0.4	955.4037	0.379880	H. Lange.
93 42 12.5	3 40 47.1	7 14 43.7	668.8847	0.4831036	A. Berberich.
134 48 56.3	4 44 50.5	9 30 47.4	769.4963	0.4425334	H. Lange.
211 31 43.1	21 36 23.1	3 55 49.0	644.0120	0.4940751	J. Hackenberg.
233 10 35.6	1 7 49.4	5 6 55.0	723.9561	0.4601962	A. Berberich.
62 31 11.4	7 49 10.4	7 35 40.4	775.5978	0.4402467	A. Berberich.
75 32 38.2	2 22 34.9	4 43 14.2	403.1860	0.629667	Dr. Bidschof.
11 17 5.6	7 27 26.0	6 19 13.9	703.8816	0.4683380	A. Berberich.

Nr. und Name	Opposition		m_0	g	Epoche und Osculation	Mittl. Aequ.	M			ω		
	1900	Gr.										
281 Lucretia . . .	Mai 21	14.3	13.6	11.5	1888 Nov. 2.5	1900.0	353	48	12.3	14	13	10.2
282 Clorinde . . .	März 22	13.3	13.3	10.8	1900 März 5.0	1900.0	87	21	19.9	293	35	41.5
283 Emma	März 4	12.5	11.8	7.8	1900 März 5.0	1900.0	167	25	20.3	50	3	45.9
284 Amalia	Juni 3	11.6	12.9	10.4	1900 Mai 24.0	1900.0	333	47	12.4	55	29	57.2
285 Regina	Sept. 11	13.8	14.9	10.9	1889 Aug. 19.5	1900.0	357	36	27.2	12	29	9.3
286 Iclea	Juli 17	13.2	13.2	9.0	1900 Juli 23.0	1900.0	271	4	52.2	237	3	57.8
287 Nephthys . . .	Sept. 21	10.7	10.7	8.2	1899 April 19.0	1900.0	311	52	37.9	117	32	24.2
288 Glauke	Juli 6	12.1	12.5	9.1	1900 Juli 3.0	1900.0	59	1	1.6	80	41	34.8
289 Nenetta	März 4	13.4	12.5	8.8	1900 März 5.0	1900.0	146	2	33.0	185	33	23.0
290 Bruna	—	—	13.9	11.5	1890 Mai 7.5	1900.0	56	49	22.1	103	32	37.8
291 Alice	Mai 7	13.6	13.6	11.4	1900 Mai 24.0	1900.0	89	46	41.2	329	57	9.3
292 Ludovica . . .	Dec. 26	12.6	12.5	9.5	1899 Sept. 26.0	1900.0	10	5	58.6	287	46	46.4
293 Brasilia	Juni 21	13.2	12.9	9.2	1890 Juni 17.5	1900.0	92	28	41.4	82	22	8.5
294 Felicia	April 8	14.7	14.3	10.2	1890 Oct. 2.5	1900.0	8	44	31.0	180	17	29.4
295 Theresia	Dec. 4	12.5	13.5	10.0	1899 Juli 8.0	1900.0	259	17	15.9	143	32	34.3
296 Phaëtusa . . .	Sept. 3	12.3	13.3	11.1	1890 Aug. 22.0	1900.0	330	33	11.7	250	2	1.2
297 Caecilia	April 20	13.4	13.3	9.1	1900 April 14.0	1900.0	267	49	8.0	346	43	33.8
298 Baptistina . . .	Sept. 3	14.1	13.5	11.3	1900 Sept. 1.0	1900.0	202	6	1.5	132	23	30.7
299 Thora	April 21	14.7	14.5	11.7	1892 März 6.0	1900.0	131	22	30.1	148	18	8.5
300 Geraldina . . .	Mai 23	13.8	13.9	9.6	1895 Juli 9.0	1900.0	336	44	54.3	282	58	45.2
301 Bavaria	—	—	12.2	8.8	1901 Jan. 19.0	1900.0	236	31	41.8	121	18	58.6
302 Clarissa	Mai 3	14.4	13.9	11.2	1897 Febr. 8.0	1900.0	208	29	34.2	52	13	39.2
303 Josephina . . .	Nov. 12	11.7	12.0	7.9	1899 Sept. 6.5	1900.0	277	45	55.3	72	48	29.6
304 Olga	Nov. 2	11.6	12.4	9.7	1900 Sept. 21.0	1900.0	34	56	26.5	169	48	6.2
305 Gordonia . . .	Oct. 27	11.8	12.5	8.4	1899 Juli 28.0	1900.0	230	21	59.4	251	10	4.4
306 Unitas	Dec. 9	11.2	10.7	8.2	1899 Juni 18.5	1900.0	328	21	57.6	165	19	10.9
307 Nike	—	—	13.1	9.4	1891 März 8.5	1900.0	74	34	39.6	320	15	5.6
308 Polyxo	März 15	11.1	11.0	7.6	1900 März 25.0	1900.0	247	50	38.3	111	14	1.5
309 Fraternitas . .	Mai 20	12.6	12.7	9.5	1891 Mai 11.5	1900.0	239	5	58.0	332	8	11.1
310 Margarita . . .	Mai 6	12.9	13.5	10.1	1891 Juni 17.5	1900.0	48	49	25.4	320	42	21.0
311 Claudia	März 24	13.0	13.0	9.3	1895 März 11.0	1900.0	37	0	15.1	54	55	29.3
312 Pierretta	Aug. 29	12.0	12.5	9.0	1891 Aug. 29.0	1900.0	74	55	14.0	257	42	14.4
313 Chaldaea	—	—	10.3	7.7	1899 Nov. 25.0	1900.0	314	36	54.4	313	8	8.8
314 Rosalia	März 28	14.9	14.0	9.9	1891 Dec. 3.5	1900.0	17	47	52.5	185	35	52.8
315 Constantia . . .	März 9	14.9	14.0	11.8	1891 Sept. 4.5	1900.0	9	27	44.6	171	22	17.8
316 Goberta	April 10	13.7	13.3	9.1	1893 Jan. 0.0	1900.0	11	29	4.9	307	28	10.6
317 Roxane	Febr. 1	12.6	12.2	9.8	1900 Jan. 24.0	1900.0	150	27	59.6	185	18	24.6
318 Magdalena . . .	Febr. 22	13.2	13.2	9.0	1899 Jan. 9.0	1900.0	0	5	58.5	273	32	45.8
319 Leona	März 9	14.7	14.2	9.7	1900 März 25.0	1900.0	105	27	18.9	216	18	9.9
320 Katharina . . .	Mai 20	14.5	14.2	10.3	1891 Dec. 2.5	1900.0	23	36	28.6	142	54	36.1

Ω	i	φ	μ	Log. a	Autorität
31° 10' 9.0	5° 19' 33.9	7° 34' 24.3	1098.5312	0.3394628	A. Berberich.
144 43 50.7	9 1 3.3	4 38 46.0	991.8748	0.3690332	A. Berberich.
305 43. 7.4	8 2 27.2	8 46 54.2	668.98929	0.483058	A. Berberich.
233 55 40.9	8 4 0.3	12 48 19.0	979.2047	0.372755	A. Berberich.
312 10 29.6	17 16 54.4	11 55 35.4	661.4827	0.4863254	A. Charlois.
149 32 8.6	17 53 41.6	0 42 53.1	621.2989	0.5044707	A. Berberich.
142 5 45.7	10 1 24.1	1 19 35.4	982.6631	0.371735	Dr. Cerulli.
120 58 22.3	4 19 56.4	11 56 58.4	774.1972	0.440770	Prof. R. Luther.
182 36 11.3	6 39 25.5	11 54 3.1	729.0809	0.4581539	A. Berberich.
10 27 0.1	22 13 23.6	15 4 22.7	995.1925	0.368066	Dr. S. Oppenheim.
161 3 13.6	1 50 34.8	5 19 10.3	1070.8481	0.346853	A. Berberich.
43 5 37.7	14 52 13.9	1 36 45.3	881.3701	0.4032322	A. Berberich.
62 12 47.0	15 45 19.2	6 48 2.9	730.8370	0.4574574	A. Charlois.
137 1 48.4	6 14 56.2	14 30 22.2	639.9696	0.4958982	A. Charlois.
277 30 38.9	2 40 28.1	9 48 43.7	759.2235	0.4464247	Dr. S. Oppenheim.
120 55 34.0	1 44 50.1	9 6 25.9	1068.122	0.3475906	J. Coniel.
333 37 5.5	7 34 33.6	8 9 7.6	629.7170	0.500574	A. Berberich.
8 0 22.3	6 17 46.6	5 33 40.8	1042.0276	0.3547517	A. Berberich.
241 49 46.6	1 35 18.9	3 29 56.6	934.3006	0.386346	A. Berberich.
42 17 25.3	0 47 2.3	2 26 41.4	617.2655	0.5063564	Rodin.
142 29 30.2	4 52 39.8	3 36 13.7	788.5213	0.4354621	A. Berberich.
7 53 16.2	3 26 12.4	6 26 28.4	950.0992	0.3814918	A. Berberich.
345 15 23.8	6 54 51.5	3 53 41.6	643.8778	0.4941354	Prof. Millosevich.
158 47 27.9	15 47 19.6	12 47 10.7	952.3591	0.3808039	A. Berberich.
211 2 16.5	4 25 1.1	11 31 48.8	654.5373	0.4893815	A. Berberich.
141 36 20.8	7 15 13.3	8 39 29.5	980.0268	0.3725126	Prof. Millosevich.
101 39 16.0	6 6 55.5	8 22 32.2	716.1102	0.4633512	A. Capon.
182 7 55.3	4 19 45.4	2 15 25.9	778.5073	0.4391627	A. Berberich.
357 59 42.1	3 56 13.6	5 1 56.0	831.679	0.420034	A. Berberich.
230 33 51.3	3 5 57.8	6 31 55.2	775.6563	0.440225	A. Berberich.
81 7 5.7	3 15 57.0	0 43 21.9	720.425	0.461612	A. Berberich.
7 35 14.0	9 5 36.4	9 9 55.4	764.051	0.444589	Masson.
176 41 44.6	11 35 10.6	10 21 51.6	968.4446	0.3759545	A. Berberich.
171 21 31.7	12 33 36.4	10 48 58.3	635.8075	0.497787	A. Berberich.
161 14 14.6	2 24 35.4	9 40 17.9	1057.2646	0.3505486	Prof. Bohlin.
124 32 14.0	2 18 36.5	7 57 58.6	627.7382	0.501585	A. Berberich.
150 45 22.0	1 45 18.9	4 53 26.2	1026.4017	0.3591262	A. Berberich.
162 52 3.9	10 31 43.4	3 58 52.5	618.1074	0.505962	H. Mader.
189 4 8.2	10 45 52.6	12 13 59.5	566.8381	0.5310317	A. Berberich.
221 3 52.6	9 19 19.2	6 41 30.5	678.726	0.478875	A. Berberich.

Nr. und Name	Opposition		m_0	g	Epoche und Osculation	Mittl. Aequ.	M			ω		
	1900	Gr.										
321 Florentina . . .	Aug. 10	13.3	13.2	9.5	1900 Aug. 12.0	1900.0	248°	16'	46.3	33°	19'	27.1
322 Phaeo	Sept. 29	11.1	12.3	8.8	1900 Oct. 31.0	1900.0	9	14	56.4	110	55	48.0
323 Brucia	—	—	13.0	11.0	1892 Jan. 1.5	1891.0	43	0	42	292	17	48
324 Bamberga . . .	—	—	9.9	6.6	1899 Dec. 35.0	1900.0	43	12	35.7	40	24	34.4
325 Heidelberga . .	Juli 21	12.7	12.4	8.1	1900 Juli 23.0	1900.0	253	58	50.1	74	13	0.2
326 Tamara	Oct. 19	11.5	11.1	8.7	1892 März 20.0	1900.0	298	49	14.0	236	57	27.0
327 Columbia . . .	—	—	13.0	9.5	1892 Juni 17.5	1900.0	277	51	46.7	301	24	49.3
328 Gudrun	Sept. 11	12.4	12.3	8.2	1892 März 22.5	1900.0	68	47	1.5	102	54	10.3
329 Svea	April 24	11.4	12.1	9.3	1900 April 14.0	1900.0	351	50	59.3	39	59	14.8
330 Adalberta . . .	—	—	13.5	11.7	1892 März 20.5	1892.0	181	3	42	0	0	0
331 Etheridgea . . .	Dec. 40	12.6	12.5	8.5	1899 Oct. 16.0	1900.0	14	52	12.8	334	14	59.9
332 Siri	—	—	12.6	9.1	1898 Aug. 22.0	1900.0	352	29	7.1	295	45	59.7
333 Badenia	Febr. 1	13.1	12.7	8.6	1900 März 5.0	1900.0	108	25	4.7	15	17	28.3
334 Chicago	Sept. 22	12.0	12.0	6.8	1897 März 11.5	1900.0	185	10	37.3	234	36	57.3
335 Roberta	Oct. 20	11.6	11.6	8.8	1900 Oct. 31.0	1900.0	79	15	59.4	140	34	48.0
336 Lacadiera	—	—	11.8	9.6	1899 Sept. 26.0	1900.0	118	20	35.1	28	45	30.6
337 Devosa	—	—	11.4	8.8	1897 Jan. 4.5	1900.0	351	48	50.4	95	58	57.2
338 Budrosa	April 4	12.2	12.1	8.4	1899 Jan. 9.0	1900.0	72	15	37.1	106	31	43.7
339 Dorothea	Febr. 19	13.2	12.8	8.8	1900 März 5.0	1900.0	182	47	13.6	156	42	43.3
340 Eduarda	Juni 13	13.5	12.9	9.5	1895 Jan. 10.0	1900.0	132	50	1.5	38	29	3.4
341 California	—	—	13.1	11.0	1893 Juni 29.0	1900.0	113	13	39.3	291	46	52.3
342 Endymion	Sept. 27	12.7	12.8	9.8	1896 Oct. 11.0	1900.0	298	5	33.0	222	41	15.3
343 Ostara	—	—	13.5	10.9	1899 Aug. 17.0	1900.0	297	5	28.6	7	15	18.9
344 Desiderata	Sept. 26	10.6	11.7	8.5	1900 Sept. 21.0	1900.0	40	22	44.1	233	23	40.5
345 Tercidina	—	—	11.2	8.8	1899 Nov. 5.0	1900.0	319	52	4.6	227	52	36.6
346 Hermentaria . . .	Juni 13	11.7	11.5	8.0	1899 März 1.0	1900.0	156	0	38.3	287	6	20.3
347 Pariana	Oct. 19	12.7	12.0	8.8	1899 Juli 8.5	1900.0	114	13	11.1	83	20	9.8
348 May	Mai 22	13.3	12.9	9.1	1893 Jan. 16.5	1900.0	342	45	57.1	2	27	58.8
349 Dembowska	Mai 16	10.1	9.8	6.0	1895 Mai 10.0	1900.0	229	5	49.2	340	37	27.8
350 Ornamenta	April 26	13.4	12.7	8.6	1900 April 14.0	1900.0	130	20	41.9	330	24	23.6
351 Yrsa	Aug. 27	12.9	12.2	8.8	1892 Dec. 20.5	1900.0	330	42	48.8	28	8	55.8
352 Gisela	März 25	12.8	12.1	10.0	1898 Febr. 3.0	1900.0	272	5	26.1	142	22	3.0
353 [1893 F]	Aug. 1	14.4	14.2	10.9	1893 Febr. 22.5	1900.0	44	13	13.5	318	29	18.5
354 Eleonora	Sept. 13	10.6	10.0	6.5	1894 Mai 14.5	1900.0	81	5	20.5	4	47	2.1
355 Gabriella	Dec. 40	12.5	13.1	10.1	1893 Febr. 23.5	1900.0	37	15	11.6	94	32	57.3
356 [1893 G]	Aug. 9	12.2	11.9	8.5	1900 Aug. 12.0	1900.0	271	36	54.7	74	39	1.9
357 [1893 J]	Juni 7	12.5	12.2	8.0	1893 Febr. 15.5	1900.0	138	27	1.7	231	51	54.9
358 [1893 K]	Aug. 11	12.5	12.5	8.8	1893 März 3.5	1893.0	86	52	43.5	248	18	54.5
359 [1893 M]	—	—	13	9.5	1893 März 17.5	1893.0	163	43	16	0	0	0
360 [1893 N]	Juli 6	12.4	11.9	8.0	1893 März 12.5	1900.0	92	54	10.8	284	2	41.3

Ω	i	φ	μ	Log. a	Autorität
40° 41' 17.9	2° 37' 35.1	2° 39' 26.5	723.7382	0.460283	A. Berberich.
253 43 2.1	7 58 48.8	14 19 32.5	764.6297	0.4443703	A. Berberich.
97 2 30	19 20 54	15 57 36	1119.60	0.333960	A. Berberich.
329 0 17.5	11 18 15.1	19 45 58.0	807.7841	0.4284742	A. Berberich.
345 16 17.6	8 33 32.5	9 3 0.6	616.8237	0.5065637	A. Berberich.
32 0 53.7	23 47 18.7	10 48 17.5	1005.7638	0.365007	Dr. Bidschof.
355 31 43.7	7 9 8.5	3 41 7.4	765.613	0.443998	A. Berberich.
353 13 38.9	16 8 12.3	6 53 58.6	647.507	0.492508	A. Berberich.
178 23 29.0	16 0 42.9	1 34 24.1	911.3780	0.3935387	Dr. Pannekoek.
358 46 36	19 58 36	0 0 0	1174.9	0.32000	A. Berberich.
22 55 36.2	6 7 25.5	5 46 58.8	673.3904	0.4811597	A. Berberich.
31 57 59.1	2 52 33.8	5 8 46.8	768.4746	0.4429180	A. Berberich.
355 16 29.8	3 50 30.2	10 8 47.8	645.0495	0.4936090	A. Berberich.
134 18 23.6	4 38 4.5	0 50 24.0	459.742	0.591661	A. Berberich.
147 53 19.4	5 5 53.8	10 15 32.7	911.5556	0.3934823	A. Berberich.
234 53 49.4	5 38 39.2	5 26 36.6	1050.0039	0.3525438	A. Berberich.
355 33 55.4	7 52 0.4	7 54 54.5	964.527	0.377127	J. Coniel.
288 30 53.0	6 2 39.2	1 12 38.1	713.531	0.464396	J. Coniel.
174 24 21.7	9 53 36.5	5 56 55.6	680.5669	0.4780905	A. Berberich.
27 38 26.9	4 42 32.8	6 53 2.5	778.0224	0.439343	A. Berberich.
29 0 31.4	5 40 11.8	11 8 58.9	1088.2433	0.3421871	A. Berberich.
232 56 58.9	7 20 1.1	7 20 44.1	861.7771	0.4097412	A. Berberich.
38 37 14.6	3 18 12.6	13 26 8.3	948.2347	0.3820605	A. Berberich.
49 1 18.1	18 38 44.6	18 8 53.1	847.9673	0.4144183	A. Berberich.
212 29 44.2	9 44 18.3	3 33 5.7	1000.5696	0.3665062	Dr. Viaro.
92 24 14.7	8 45 21.8	5 47 46.6	758.5325	0.446688	V. Ehrenfeucht.
85 57 52.6	11 42 20.2	9 34 55.9	840.8521	0.416858	Dr. Boccardi.
90 40 1.9	9 44 17.4	3 45 27.2	695.387	0.471854	M. Ebell.
33 3 23.2	8 16 38.5	5 9 33.0	709.497	0.466038	Dr. F. Ristenpart.
90 40 2.6	24 48 34.0	9 4 16.8	645.8891	0.4932324	A. Berberich.
99 40 8.4	9 13 3.4	8 45 46.5	771.582	0.441750	A. Berberich.
247 8 14.8	3 21 55.4	8 33 45.0	1091.4985	0.3413223	A. Berberich.
103 6 14.2	5 32 21.7	18 49 43.3	794.611	0.433234	A. Berberich.
140 42 25.8	18 22 13.8	6 31 10.4	757.5785	0.4470526	Dr. Ciscato.
352 11 27.9	4 21 1.7	6 12 55.9	876.580	0.404810	A. Berberich.
356 9 12.1	8 16 0.3	13 57 5.4	775.7399	0.4401937	A. Berberich.
138 15 44.7	14 5 32.7	1 31 16.0	632.836	0.499142	J. Coniel.
172 54 2.8	3 31 52.7	8 26 24.1	725.563	0.459554	J. Coniel.
10 27 16	4 59 38	0 0 0	760.70	0.44586	A. Berberich.
133 42 48.4	11 38 10.1	9 43 35.9	681.803	0.477565	J. Coniel.

Nr. und Name	Opposition		<i>m</i> .	<i>g</i>	Epoche und Osculation	Mittl. Aequ.	<i>M</i>			<i>ω</i>		
	1900	Gr.										
361 [1893 P] . .	Jan. 3	12.2	13.3	8.0	1893 März 12.5	1900.0	53	40	44.9	75	12	0.9
362 [1893 R] . .	—	—	11.1	8.0	1898 Aug. 22.0	1900.0	228	31	14.1	31	25	20.3
363 [1893 S] . .	Nov. 17	11.4	11.6	8.2	1899 Juli 8.0	1900.0	302	30	49.4	293	13	59.4
364 [1893 T] . .	Mai 3	12.5	11.7	9.5	1897 Juni 8.0	1900.0	203	39	20.5	310	52	58.4
365 [1893 V] . .	Oct. 31	11.3	12.2	8.7	1899 Aug. 17.0	1900.0	268	1	48.6	209	44	57.1
366 Vincentina .	Aug. 5	12.1	12.3	8.2	1900 Aug. 12.5	1900.0	8	31	40.2	314	10	53.6
367 [1893 AA] .	Juli 16	12.9	12.5	10.3	1897 Aug. 27.0	1900.0	198	37	34.8	53	14	54.2
368 [1893 AB] .	Dec. 6	13.8	13.5	9.5	1893 Juli 17.5	1900.0	317	18	49.4	85	7	25.1
369 Aëria . . .	Jan. 17	12.9	12.9	9.5	1899 März 10.0	1900.0	34	2	38.3	267	3	40.6
370 [1893 AC] .	Juli 14	12.5	12.8	10.4	1893 Juli 14.5	1900.0	312	26	36.5	66	22	41.0
371 [1893 AD] .	—	—	11.8	8.4	1899 Dec. 15.0	1900.0	182	59	26.0	339	42	9.7
372 [1893 AH] .	—	—	10.5	6.4	1899 Sept. 26.0	1900.0	322	8	11.8	113	43	37.1
373 [1893 AJ] .	—	—	12.8	8.7	1899 April 20.0	1900.0	8	16	34.1	348	38	11.2
374 [1893 AK] .	Jan. 18	11.9	11.7	8.2	1896 Sept. 1.0	1900.0	342	39	36.2	22	57	48.9
375 [1893 AL] .	—	—	11.0	6.9	1897 Mai 19.0	1900.0	276	40	52.5	344	33	41.9
376 [1893 AM] .	Oct. 9	12.2	11.8	9.4	1899 März 10.0	1900.0	299	55	37.2	313	51	58.1
377 [1893 AN] .	April 4	13.0	11.5	8.2	1893 Oct. 7.5	1900.0	338	6	43.1	192	39	58.3
378 [1893 AP] .	April 4	13.2	12.6	9.1	1900 April 14.0	1900.0	168	50	19.7	152	58	17.3
379 [1894 AQ] .	Febr. 5	13.4	12.6	8.5	1894 Jan. 12.5	1900.0	98	29	53.4	177	57	18.6
380 [1894 AR] .	Juni 6	12.3	12.6	9.3	1894 Jan. 11.0	1900.0	129	17	7.6	237	32	11.9
381 [1894 AS] .	Febr. 9	12.6	12.4	8.1	1900 Jan. 24.0	1900.0	238	54	53.5	144	49	15.0
382 [1894 AT] .	März 14	11.4	12.1	8.1	1898 Dec. 20.0	1900.0	244	45	7.1	268	19	13.1
383 [1894 AU] .	März 7	13.6	13.3	9.2	1900 März 25.0	1900.0	103	4	8.0	314	15	4.4
384 Burdigala .	Juli 17	12.3	11.7	8.5	1899 April 9.5	1900.0	119	46	59.6	30	33	4.5
385 Ilmatar . .	Juli 23	10.7	10.3	6.7	1897 Dec. 25.5	1900.0	281	17	34.4	185	13	17.5
386 [1894 AY] .	Mai 19	10.9	10.5	6.8	1900 Mai 24.0	1900.0	223	23	19.9	216	42	1.3
387 Aquitania .	Sept. 21	9.1	9.8	6.4	1895 Juli 3.5	1900.0	353	6	10.2	153	33	24.0
388 [1894 BA] .	April 30	11.8	11.7	7.8	1894 Mai 6.5	1900.0	200	48	45.6	336	54	54.3
389 [1894 BB] .	Sept. 16	11.5	11.1	8.0	1899 Juni 18.0	1900.0	63	27	27.4	262	50	47.8
390 [1894 BC] .	Aug. 13	13.9	13.5	10.0	1899 Mai 17.0	1900.0	88	15	19.6	188	31	26.0
391 Ingeborg . .	April 6	14.8	13.4	11.0	1894 Nov. 6.0	1900.0	23	31	40.5	145	19	2.0
392 Wilhelmina .	Dec. 45	12.8	12.2	8.3	1894 Nov. 4.5	1900.0	42	10	20.6	134	52	8.1
393 [1894 BG] .	—	—	11.0	7.6	1894 Nov. 4.5	1900.0	67	32	29.0	85	38	13.6
394 [1894 BH] .	—	—	13.0	9.6	1894 Nov. 23.5	1900.0	55	25	12.3	265	37	56.0
395 [1894 BK] .	—	—	13.0	9.5	1894 Dec. 3.5	1900.0	136	43	41.3	20	40	2.1
396 [1894 BL] .	Jan. 5	14.0	13.2	9.7	1894 Dec. 2.5	1900.0	156	42	32.8	18	38	52.5
397 [1894 BM] .	Febr. 15	13.1	12.6	9.4	1897 Mai 19.0	1900.0	256	0	43.9	136	32	59.9
398 [1894 BN] .	—	—	12.0	8.1	1895 Jan. 22.5	1895.0	187	25	12	0	0	0
399 [1895 BP] .	Febr. 1	12.7	13.0	9.0	1895 März 1.5	1900.0	353	57	41.1	180	49	13.1
400 [1895 BU] .	Jan. 23	14.4	14.5	10.4	1895 März 18.5	1900.0	337	44	19.1	229	27	23.7

Ω	i	p	μ	Log. a	Autorität
19° 32' 14.5	12° 36' 54.9	11° 47' 42.4	449.924	0.597911	J. Coniel.
27 19 13.3	8 4 50.4	2 44 25.7	857.2968	0.411250	A. Berberich.
65 0 55.0	5 58 3.1	4 1 11.6	779.324	0.438859	A. Antoniazzi.
105 12 54.4	6 0 1.3	8 43 13.7	1072.6673	0.346361	A. Berberich.
185 46 27.4	12 43 30.8	8 19 48.5	756.0685	0.4476303	A. Berberich.
347 51 40.5	10 35 27.6	3 29 35.4	636.6377	0.497409	Dr. Boccardi.
83 1 45.5	2 56 49.2	5 24 23.5	1073.2216	0.346211	A. Berberich.
229 58 56.3	7 48 15.5	11 8 13.1	663.984	0.485231	A. Berberich.
94 26 5.2	12 43 42.6	5 36 57.7	824.0037	0.4227183	A. Berberich.
290 59 45.3	7 51 37.9	5 10 55.7	1001.5535	0.366222	A. Berberich.
284 8 25.4	7 23 6.7	3 28 34.2	787.7337	0.435752	H. Mader.
328 20 5.8	23 40 19.0	15 37 54.9	636.6860	0.497388	A. Berberich.
4 26 38.7	15 27 41.9	8 23 2.8	644.9956	0.4936333	A. Berberich.
219 36 41.2	8 57 57.6	4 27 27.6	765.4424	0.444063	A. Berberich.
337 20 28.1	15 57 20.2	5 37 56.4	641.2112	0.496004	K. Heuer.
302 12 53.2	5 25 18.9	9 51 15.3	1024.4027	0.3596906	A. Berberich.
210 36 8.4	6 39 41.6	4 26 14.5	804.920	0.429503	J. Coniel.
233 13 27.8	6 58 38.7	7 30 14.0	767.2482	0.4433805	A. Berberich.
172 44 58.5	1 36 33.6	11 3 4.0	641.338	0.495280	J. Coniel.
95 15 45.3	6 10 28.7	6 37 54.9	809.990	0.427685	A. Capon.
125 19 21.4	12 34 54.3	7 6 18.4	619.6807	0.5052257	A. Berberich.
315 44 53.0	7 25 38.3	9 52 38.6	646.1972	0.4930944	A. Berberich.
93 25 26.2	2 39 30.9	10 19 59.5	642.0203	0.4949719	A. Berberich.
48 13 27.0	5 38 54.5	8 22 34.3	820.6462	0.423900	F. Kromm.
344 55 49.1	13 42 55.9	7 30 32.1	740.0320	0.453837	G. Witt.
167 9 40.3	20 14 59.8	9 35 59.2	718.3236	0.462458	A. Berberich.
128 37 56.0	17 57 55.2	13 47 16.3	782.6076	0.4376414	J. H. Ogburn.
355 30 6.8	6 31 48.5	3 42 53.8	684.531	0.476409	A. Berberich.
282 37 51.2	8 7 7.3	3 53 14.7	842.4772	0.416299	D. Peyra.
305 25 32.1	12 8 52.8	7 28 40.3	821.022	0.423768	J. Coniel.
212 40 47.3	23 3 3.0	17 57 30.4	1003.286	0.365721	J. Coniel.
212 8 0.9	16 11 33.5	11 12 8.1	683.267	0.476944	A. Berberich.
215 1 40.2	14 52 29.3	19 13 37.7	768.335	0.442971	A. Berberich.
68 13 29.4	6 15 38.1	13 11 32.3	771.095	0.441933	J. Coniel.
259 52 27.5	3 31 42.3	7 16 9.6	764.391	0.444461	A. Capon.
251 17 22.6	2 37 51.3	10 18 30.4	782.986	0.437501	J. Coniel.
228 36 42.4	12 43 56.7	14 23 4.1	830.1664	0.420560	H. Mader.
284 14 19	20 9 57	0 0 0	684.68	0.47634	A. Charlois.
347 22 58.7	13 8 20.1	3 51 5.6	664.6683	0.484935	A. Berberich.
328 41 7.6	10 36 51.4	5 15 50.9	641.871	0.495039	A. Berberich.

Nr. und Name	Opposition		m_0	g	Epoche und Osculation	Mittl. Aequ.	M			ω		
	1900	Gr.										
401 Ottilia . . .	Jan. 0	12.8	12.6	8.2	1895 April 20.0	1900.0	324	31	46.8	181	20	19.6
402 [1895 BW].	Juli 6	11.1	10.7	7.7	1895 März 27.5	1895.0	28	44	8.7	12	26	1.5
403 [1895 BX].	Juni 17	12.3	12.0	8.5	1900 Juli 3.0	1900.0	127	14	7.2	248	33	33.2
404 [1895 BY].	Sept. 27	13.9	13.0	10.0	1899 Mai 29.0	1900.0	17	28	20.0	118	7	7.6
405 [1895 BZ].	Sept. 30	12.3	11.0	8.0	1895 Juli 27.0	1895.0	73	36	35.0	305	12	42.1
406 [1895 CB].	Sept. 5	12.4	13.5	9.8	1895 Aug. 23.5	1900.0	350	1	59.3	33	31	31.4
407 [1895 CC].	Dec. 50	11.9	11.9	8.7	1895 Nov. 10.5	1900.0	17	44	21.6	79	37	50.6
408 [1895 CD].	Aug. 19	13.1	13.4	9.2	1895 Oct. 15.5	1900.0	354	28	32.9	100	36	57.2
409 [1895 CE].	—	—	10.7	7.6	1899 Nov. 19.0	1900.0	183	45	6.5	351	8	30.1
410 [1896 CH].	—	—	11.9	8.3	1896 Jan. 8.5	1900.0	245	34	9.5	143	52	48.7
411 [1896 CJ].	Dec. 44	13.3	12.5	8.5	1896 Jan. 8.5	1900.0	158	42	57.5	194	5	56.8
412 Elisabetha .	—	—	12.1	8.5	1899 Nov. 5.0	1900.0	213	52	9.2	88	31	45.8
413 Edburga . .	—	—	12.2	9.2	1896 Jan. 10.5	1900.0	72	21	21.0	248	52	28.4
414 [1896 CN].	Sept. 29	13.0	13.4	8.6	1896 Jan. 17.5	1900.0	59	10	8.5	301	48	6.7
415 [1896 CO].	—	—	11.6	8.1	1899 Oct. 4.5	1899.0	332	37	13.1	293	31	49.5
416 Vaticana . .	Febr. 9	11.7	11.5	8.0	1900 Jan. 24.5	1900.0	262	34	31.7	195	38	14.1
417 [1896 CT].	Jan. 26	12.2	12.7	9.2	1896 Mai 11.5	1900.0	30	48	55.3	344	23	18.1
418 [1896 CV].	Aug. 7	12.1	12.6	9.5	1896 Sept. 3.5	1900.0	337	51	7.9	123	50	40.4
419 [1896 CW].	Aug. 8	9.7	11.1	8.0	1900 Aug. 12.0	1900.0	29	39	37.8	39	6	50.5
420 Bertholda . .	April 6	12.4	12.3	7.7	1900 April 14.0	1900.0	104	51	47.9	203	7	35.6
421 Zähringia . .	Aug. 26	12.7	14.2	11.2	1896 Sept. 3.5	1900.0	333	0	19.7	205	13	58.6
422 Berolina . .	—	—	13.4	11.2	1896 Dec. 4.5	1900.0	42	36	47.9	334	7	22.3
423 [1896 DB].	Juli 13	11.0	11.2	7.2	1896 Dec. 8.5	1900.0	144	40	21.6	199	14	29.5
424 [1896 DF].	Nov. 1	12.2	12.8	9.3	1897 Febr. 28.0	1900.0	46	56	47.2	330	21	46.1
425 [1896 DC].	Oct. 20	13.5	13.1	9.4	1897 Jan. 20.5	1900.0	297	57	5.8	117	50	18.3
426 [1897 DH].	Febr. 22	10.9	11.5	7.8	1897 Sept. 30.0	1900.0	172	10	55.2	221	45	54.7
427 [1897 DJ].	Febr. 5	13.7	13.1	9.3	1897 Sept. 2.5	1897.0	26	0	44.7	5	56	12.6
428 Monachia . .	Aug. 6	13.1	13.5	11.1	1900 Aug. 7.5	1900.0	300	39	10.6	13	51	27.9
429 [1897 DL].	Mai 25	12.8	11.5	9.4	1897 Nov. 24.5	1900.0	39	2	43.0	144	21	33.6
430 [1897 DM].	Juni 3	14.4	13.2	9.6	1898 Jan. 21.5	1898.0	15	12	12.0	174	56	47.0
431 [1897 DN].	April 2	13.1	12.6	8.5	1898 Jan. 18.5	1898.0	97	29	58.4	209	20	51.4
432 [1897 DO].	Oct. 10	11.5	11.3	8.7	1898 Jan. 22.5	1898.0	184	17	44.4	174	9	13.2
433 Eros	Oct. 30	9.3	9.7	10.6	1900 Oct. 31.5	1900.0	304	23	59.7	177	38	41.6
434 Hungaria . .	März 21	11.9	11.8	10.4	1898 Oct. 10.5	1898.0	58	46	13.8	123	10	7.2
435 [1898 DS].	Febr. 5	12.7	12.1	9.3	1898 Sept. 15.5	1900.0	359	41	7.1	330	43	49.4
436 [1898 DT].	—	—	12.4	8.2	1898 Sept. 20.5	1898.0	342	35	23.5	26	40	36.8
437 [1898 DP].	Jan. 10	13.7	12.7	10.1	1898 Juli 18.5	1900.0	346	24	55.7	58	27	43.3
438 [1898 DU].	April 3	13.1	12.3	10.3	1898 Nov. 12.5	1900.0	294	43	28.7	80	9	25.2
439 Ohio	Jan. 7	12.5	11.7	7.6	1898 Oct. 14.5	1900.0	310	47	3.7	232	56	54.6
440 [1898 EC].	April 19	13.1	13.1	10.9	1898 Oct. 18.5	1900.0	284	37	41.8	176	8	34.9

Ω	i	φ	μ	Log. a	Autorität
39° 7' 57.5	6° 5' 36.0	2° 18' 50.3	584.254	0.522270	A. Berberich.
129 29 53.1	11 50 10.2	6 24 49.0	868.759	0.407405	J. Coniel.
245 42 28.6	9 8 11.3	5 42 4.0	752.51263	0.448995	A. Berberich.
92 50 13.9	14 2 9.2	11 53 30.4	851.5022	0.413214	A. Berberich.
255 55 27.9	11 48 18.6	14 32 24.7	856.814	0.411412	J. Coniel.
317 15 49.5	4 12 31.9	10 31 6.1	714.568	0.463975	A. Capon.
295 9 45.6	7 32 25.8	3 55 13.1	834.430	0.419078	A. Berberich.
299 29 5.2	9 6 11.5	7 54 31.1	627.210	0.501729	A. Berberich.
242 35 48.1	11 12 46.1	3 53 20.9	858.5857	0.410815	F. Kromm.
96 24 55.9	9 32 56.1	12 30 4.9	746.590	0.451283	A. Berberich.
108 7 51.8	19 26 26.9	13 36 34.4	720.585	0.461548	A. Berberich.
106 43 44.6	13 47 21.9	2 16 3.5	772.41065	0.441439	A. Berberich.
105 4 28.9	18 52 26.6	19 43 23.0	856.555	0.411501	A. Berberich.
113 29 2.5	9 39 7.4	5 18 49.6	537.766	0.546275	A. Berberich.
128 13 1.7	8 6 28.9	17 34 0.7	761.2267	0.445662	E. F. Coddington.
58 32 36.8	12 55 48.4	12 34 55.2	761.14731	0.445692	Dr. Boccardi.
200 1 24.1	6 34 34.4	7 43 44.5	757.116	0.447229	A. Berberich.
249 6 42.0	6 48 16.6	6 57 51.8	847.266	0.414658	A. Berberich.
230 13 55.5	3 57 37.7	14 47 31.2	850.7095	0.4134836	A. Berberich.
247 1 6.6	6 39 54.5	2 46 42.3	562.7012	0.5331525	A. Berberich.
187 59 15.4	7 51 37.5	16 53 29.6	876.838	0.404725	A. Berberich.
8 48 49.0	4 58 45.1	12 11 29.9	1070.3195	0.3469954	G. Witt.
70 19 35.0	11 13 35.1	2 17 42.4	663.033	0.485647	A. Berberich.
99 33 18.3	8 11 56.5	6 11 49.6	767.6789	0.4432180	J. Stein S. J.
61 14 34.5	4 2 18.3	4 18 21.8	719.978	0.461792	A. Pourteau.
311 58 22.1	19 37 39.4	5 53 54.4	722.4562	0.4607967	A. Pourteau.
298 45 30.8	5 8 11.1	6 53 23.4	692.493	0.473061	J. Coniel.
17 21 32.2	6 13 28.4	10 15 44.4	1009.005	0.364076	Dr. Villiger.
220 39 12.8	9 48 20.1	8 24 13.0	846.714	0.414845	J. Coniel.
249 49 46.5	14 33 22.3	14 55 51.9	743.475	0.452494	A. Berberich.
117 6 55.6	1 49 1.4	9 43 27.5	642.4286	0.494788	K. Pokrowsky.
88 33 43.8	12 8 5.1	8 27 55.6	975.178	0.373948	A. Berberich.
303 30 40.4	10 49 38.9	12 52 48.2	2015.12740	0.1638027	Prof. Millosevich.
174 37 56.0	22 33 38.1	4 14 43.5	1306.439	0.289278	A. Berberich.
23 6 13.7	1 50 21.0	8 56 51.1	926.096	0.388900	A. Berberich.
352 0 49.6	18 37 46.7	4 41 35.9	622.111	0.504093	A. Berberich.
263 41 9.8	7 23 33.8	14 13 8.7	963.993	0.377288	A. Berberich.
49 39 23.3	6 25 43.8	9 22 43.2	792.554	0.333985	J. Coniel.
202 26 52.5	19 13 27.0	4 19 19.9	637.631	0.496958	E. F. Coddington.
292 20 32.1	1 35 46.4	6 11 19.0	1079.355	0.344562	E. F. Coddington.

Nr. und Name	Opposition		m_0	g	Epoche und Osculation	Mittl. Aequ.	M			ω		
	1900	Gr.										
441 [1898 <i>ED</i>]	—	—	—	—	1898 Dec. 9.5	1899.0	339°	42'	50.8"	204°	5'	44.2"
442 [1899 <i>EE</i>]	—	—	—	—	1899 März 30.5	1900.0	308	39	24.9	82	27	53.5
443 [1899 <i>EF</i>]	—	—	—	—	1899 März 31.5	1899.0	327	53	6.6	29	24	41.1
444 [1899 <i>EL</i>]	—	—	—	—	1899 März 31.5	1899.0	207	21	24.3	159	0	39.3
[1894 <i>BD</i>]	—	—	13.3	11.3	1894 Nov. 1.5	1900.0	337	18	8.4	356	39	18.9
[1899 <i>ER</i>]	—	—	—	—	1899 Oct. 29.5	1899.0	53	14	31.1	280	39	29.2
[1899 <i>EX</i>]	—	—	—	—	1899 Oct. 4.5	1899.0	2	43	11.7	79	36	27.4
[1899 <i>ES</i>]	—	—	—	—	1899 Dec. 3.5	1900.0	4	21	31.8	319	16	20.7
[1899 <i>EU</i>]	—	—	—	—	1899 Nov. 2.5	1900.0	276	13	25.7	45	3	21.5
1892 <i>S</i>	—	—	13.0	9.9	1892 Dec. 17.5	1892.0	77	35	50	0	0	0
1893 <i>C</i>	—	—	13.5	11.8	1893 Jan. 23.5	1893.0	167	48	0	0	0	0
1893 <i>D</i>	—	—	12.5	8.6	1893 Jan. 19.5	1893.0	348	50	15	0	0	0
1893 <i>U</i>	—	—	13.0	10.3	1893 April 10.5	1893.0	93	23	42	0	0	0
1893 <i>X</i>	—	—	13	7.4	1893 März 21.5	1893.0	112	50	17	0	0	0
1893 <i>Y</i>	—	—	13	8.3	1893 April 17.5	1893.0	79	39	46	0	0	0
1894 <i>AW</i>	—	—	12	9.5	1894 Febr. 3.5	1894.0	62	6	12	0	0	0
1896 <i>CU</i>	—	—	12.0	8.3	1896 Sept. 3.5	1896.0	100	46	25	0	0	0
1896 <i>DD</i>	—	—	13.0	9.4	1897 Jan. 12.5	1897.0	8	18	14	0	0	0
1896 <i>DE</i>	—	—	13.0	8.9	1897 Jan. 12.5	1897.0	178	29	24	0	0	0
1898 <i>DW</i>	—	—	13.5	10.4	1898 Nov. 19.5	1898.0	181	1	17	0	0	0
1898 <i>DY</i>	—	—	13.5	9.6	1898 Nov. 13.5	1898.0	198	18	19	0	0	0
1898 <i>DZ</i>	—	—	12.5	9.6	1898 Nov. 17.5	1898.0	174	26	37	0	0	0
1898 <i>EA</i>	—	—	13	8.1	1898 Nov. 13.5	1898.0	181	15	2	0	0	0

Ω	i	φ	μ	Log. a	Autorität
254 10 36.1	8° 2' 33.9	5° 4' 14.4	751.537	0.449370	J. Coniel.
134 41 4.1	6 3 30.6	4 8 45.9	986.875	0.370496	Pfarrer Thraen.
176 3 44.0	3 57 20.5	6 22 43.6	1034.79	0.356774	Pfarrer Thraen.
196 10 18.2	10 35 39.6	10 31 41.6	775.011	0.440466	Lubrano u. Maitre.
72 35 44.3	3 27 48.4	8 33 50.4	1104.735	0.337832	A. Berberich.
42 35 35.2	10 36 27.2	6 41 22.3	761.6344	0.445506	J. Möller.
293 10 50.2	21 25 0.6	11 50 32.5	623.873	0.503274	E. F. Coddington.
72 18 33.0	4 49 33.5	2 36 37.5	687.012	0.475362	Prof. H. Kreutz.
85 38 29.6	3 6 45.4	9 59 28.5	869.056	0.407306	J. Möller.
358 7 42	3 27 18	0 0 0	835.80	0.41860	A. Berberich.
321 27 42	3 33 48	0 0 0	1182.9	0.31804	A. Berberich.
133 20 53	11 44 34	0 0 0	681.61	0.47764	A. Berberich.
88 59 54	7 49 6	0 0 0	944.3	0.38330	A. Charlois.
72 17 48	1 34 4	0 0 0	423.40	0.61550	A. Berberich.
124 24 8	0 18 4	0 0 0	549.95	0.53980	A. Berberich.
21 39 36	4 33 42	0 0 0	996.0	0.36781	A. Berberich.
243 53 26	5 51 46	0 0 0	692.17	0.46320	A. Berberich.
104 44 20	2 52 28	0 0 0	731.37	0.45725	A. Berberich.
295 24 12	9 30 52	0 0 0	645.96	0.49320	A. Berberich.
229 11 55	14 40 58	0 0 0	841.15	0.41675	A. Berberich.
216 46 18	3 15 55	0 0 0	673.12	0.48128	A. Berberich.
239 40 46	3 53 1	0 0 0	881.73	0.40312	A. Berberich.
227 33 5	27 23 43	0 0 0	508.71	0.56236	A. Berberich.

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Decl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
401 Ottilia	Jan. 0	12.8	6 ^h 42. ^m 1	+30° 34'	0.9 ^m	+ 2'	0.383	1895
185 Eunike	0	10.3	6 43.9	— 6 15	0.7	+ 5	—	1898
64 Angelina	2	9.7	6 51.3	+24 2	1.0	+ 1	0.139	1896
5 Astraea	3	8.8	6 55.2	+16 43	1.0	+ 3	—	1897
361 [1893 P]	3	12.2	6 57.8	+40 55	0.9	+ 1	0.344	1893
124 Alkeste	4	10.6	7 1.6	+18 10	1.0	+ 1	—	1897
396 [1894 BL]	5	14.0	7 4.0	+20 57	1.2	— 3	0.347	1894
102 Miriam	5	12.8	7 8.9	+14 49	1.0	+ 2	—	1894
228 Agathe	6	15.3	7 11.3	+24 23	1.2	+ 1	0.187	1895
439 Ohio	7	12.5	7 18.7	— 6 23	0.8	+ 1	0.310	1898
197 Arete	10	13.3	7 24.6	+28 3	1.0	+ 4	0.321	1898
437 [1898 DP]	10	13.7	7 26.2	+16 47	1.1	+ 1	0.268	1898
196 Philomela	11	10.5	7 31.0	+28 15	0.9	+ 4	0.341	1897
279 Thule	11	14.1	7 32.7	+19 14	0.6	+ 1	0.545	1897
145 Adeona	11	10.5	7 34.8	+33 57	1.1	+ 7	—	1894
137 Meliboea	12	12.8	7 34.2	+ 3 30	0.8	+ 2	0.450	1897
130 Elektra	13	10.5	7 40.3	+ 3 10	0.8	+ 7	0.314	1897
187 Lamberta	13	11.4	7 40.7	+37 52	1.1	+ 5	0.249	1897
148 Gallia	15	10.6	7 47.4	+ 0 56	0.9	+11	—	1898
369 Aëria	17	12.9	7 59.5	+28 21	1.0	+ 6	0.246	1895
374 [1893 AK]	18	11.9	7 59.7	+ 6 58	0.9	+ 2	0.283	1894
199 Byblis	18	13.1	8 4.5	+30 36	0.9	+ 5	—	1897
218 Bianca	20	11.5	8 11.3	+ 1 55	0.9	+ 6	0.248	1893
53 Kalypso	21	10.5	8 16.1	+16 7	1.0	+ 6	0.056	1898
400 [1895 BU]	23	14.4	8 22.1	+26 42	1.0	0	—	1895
99 Dike	24	14.5	8 24.7	+39 57	1.1	+ 4	0.312	1868
166 Rhodope	25	12.2	8 34.0	+18 40	0.9	+ 9	0.184	1897
417 [1896 CT]	26	12.2	8 35.7	+ 8 11	0.9	+ 4	0.200	1896
135 Hertha	27	11.5	8 38.1	+20 41	1.0	+ 3	0.282	1897
* 113 Amalthea	27	10.8	8 42.6	+18 57	1.0	+ 7	0.118	1898
132 Aethra	28	8.7	8 42.8	—26 4	1.1	—17	—	1873
191 Kolga	30	12.1	8 51.0	+ 9 13	0.8	+ 6	0.296	1897
28 Bellona	31	9.2	8 55.2	+13 42	0.8	+ 8	0.140	1898
* 154 Bertha	31	11.2	8 56.9	+48 35	1.1	+ 2	0.345	1898
114 Cassandra	31	10.3	8 57.4	+12 32	0.9	+ 6	0.128	1897
333 Badenia	Febr. 1	13.1	9 0.3	+20 57	0.9	+ 3	0.369	1895
399 [1895 BP]	1	12.7	9 1.2	+29 41	1.0	0	0.283	1895
317 Roxane	1	12.6	9 1.9	+16 0	1.1	+ 5	0.170	1898
231 Vindobona	3	12.7	9 9.9	+21 14	0.9	+ 3	0.327	1897
435 [1898 DS]	5	12.7	9 16.7	+18 37	1.0	+ 4	0.241	1898
379 [1894 AQ]	5	13.4	9 19.1	+14 18	0.8	+ 4	0.415	1898
427 [1897 DJ]	5	13.7	9 19.2	+13 9	0.8	+ 3	0.368	1897

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Decl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
219 Thusnelda . .	Febr. 8	12.4	9 ^h 28.7 ^m	+ 0° 8'	0.9 ^m	+ 6'	0.272	1898
253 Mathilde . . .	8	14.7	9 30.9	+ 8 31	0.8	+ 5	0.369	1898
416 Vaticana . . .	9	11.7	9 30.3	+34 35	1.0	+ 5	0.304	1898
26 Proserpina . .	9	10.6	9 30.8	+20 42	1.0	+ 4	0.227	1898
181 Eucharis . . .	9	10.5	9 33.2	+12 24	0.7	+12	0.201	1895
381 [1894 AS] . . .	9	12.6	9 34.4	+19 16	0.7	+ 7	0.388	1896
280 Philia	11	14.0	9 39.7	+23 36	0.9	+ 2	0.237	1890
234 Barbara	11	12.9	9 41.3	+12 21	0.9	+ 8	0.293	1894
96 Aegle	12	10.5	9 41.8	+13 24	1.0	- 1	0.226	1897
* 33 Polyhymnia . .	14	13.3	9 53.8	+14 42	0.8	+ 4	0.440	1898
397 [1894 BM] . . .	15	13.1	9 56.5	- 6 41	0.9	+ 5	0.335	1898
40 Harmonia	15	9.0	9 58.5	+18 33	1.3	+ 8	0.034	1897
86 Semele	16	12.7	9 58.1	+18 37	0.8	+ 5	0.362	1897
225 Henrietta	18	13.7	10 5.7	- 9 30	0.7	+ 5	0.490	1897
188 Menippe	18	13.5	10 9.3	- 6 39	0.8	+ 5	0.348	1897
339 Dorothea	19	13.2	10 8.0	+ 5 38	0.7	+ 6	0.368	1896
426 [1897 DH] . . .	22	10.9	10 23.8	- 4 58	1.1	0	0.212	1897
318 Magdalena	22	13.2	10 24.1	+ 7 37	0.7	+ 7	0.334	1898
138 Tolosa	23	12.7	10 25.8	+15 7	1.0	+ 5	0.261	1897
84 Klio	23	12.6	10 27.7	+ 7 30	1.0	+ 3	0.285	1898
267 Tirza	28	14.1	10 44.6	+17 51	0.9	+ 5	0.271	1891
*164 Eva	März 3	12.4	10 58.1	+42 15	1.1	+ 4	0.400	1898
169 Zelia	3	12.0	10 58.3	+ 8 36	1.0	+ 4	0.220	1898
266 Aline	4	12.4	10 57.4	-12 53	0.8	+ 6	0.338	1898
283 Emma	4	12.5	11 0.5	- 1 32	0.8	+ 3	0.400	1899
289 Nenetta	4	13.4	11 2.2	+ 3 5	0.8	+ 6	0.381	1891
* 19 Fortuna	5	10.4	11 6.1	+ 3 52	0.9	+ 6	0.227	1898
235 Carolina	6	12.3	11 10.7	+20 0	0.8	+ 4	0.293	1897
* 37 Fides	7	10.4	11 13.1	+ 7 1	0.9	+ 5	0.216	1898
383 [1894 AU]	7	13.6	11 16.7	+ 8 37	0.8	+ 5	0.366	1894
30 Urania	7	10.4	11 14.3	+ 2 32	1.0	+ 6	0.196	1897
271 Penthesilea . . .	8	13.5	11 15.4	+ 3 43	0.8	+ 4	0.350	1897
315 Constantia	9	14.9	11 19.0	+ 4 58	1.0	+ 7	0.205	1891
*248 Lameia	9	12.9	11 21.2	- 2 58	0.9	+ 6	0.158	1898
319 Leona	9	14.7	11 21.8	- 0 56	0.7	+ 6	0.431	1891
194 Prokne	10	11.5	11 22.0	+ 8 24	0.8	+ 4	0.329	1897
81 Terpsichore	10	12.2	11 24.5	+ 6 42	0.9	+ 3	0.315	1893
262 Valda	13	14.3	11 33.9	+12 57	1.0	+ 4	0.213	1898
382 [1894 AT]	14	11.4	11 37.0	- 5 43	0.8	+ 3	0.235	1894
308 Polyxo	15	11.1	11 42.3	+ 1 8	0.8	+ 7	0.256	1897
179 Klytæmncstra . .	15	12.1	11 43.4	- 9 53	0.8	+ 5	0.367	1897
205 Martha	16	12.8	11 43.3	- 8 16	0.8	+ 8	0.273	1893

410 OPPOSITIONEN DER KL. PLANETEN FÜR 1900.

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Decl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
434 Hungaria . . .	März 21	11.9	12 ^h 1 ^m 5	+ 4° 25'	0.9	+23	0.004	1899
117 Lomia	21	11.5	12 5.2	- 6 12	0.9	+ 1	0.314	1892
* 46 Hestia	22	11.5	12 5.1	- 0 33	0.9	+ 6	0.289	1899
282 Clorinde . . .	22	13.3	12 5.2	+ 9 8	0.9	+ 9	0.138	1898
200 Dynamene . .	22	11.5	12 6.1	- 7 41	0.9	+ 4	0.297	1893
311 Claudia	24	13.0	12 12.8	+ 3 58	0.8	+ 5	0.273	1895
21 Lutetia	25	10.8	12 14.2	- 1 24	0.9	+ 3	0.240	1897
352 Gisela	25	12.8	12 16.4	- 7 9	1.0	+ 7	0.173	1898
75 Eurydike . . .	25	12.8	12 18.5	- 2 43	0.9	+ 4	0.362	1895
101 Helena	27	11.2	12 22.9	- 9 43	1.0	+ 3	0.266	1899
233 Asterope . . .	27	11.8	12 24.3	- 9 29	1.2	+ 7	0.282	1897
314 Rosalia	28	14.9	12 29.2	+ 1 47	0.7	+ 6	0.437	1891
134 Sophrosyne . .	29	11.4	12 33.8	-12 8	1.0	+ 2	0.235	1898
58 Concordia . . .	29	11.2	12 34.3	+ 0 20	0.8	+ 7	0.201	1898
174 Phaedra	April 1	11.2	12 41.4	-20 3	1.0	+ 2	0.215	1897
144 Vibilia	1	11.9	12 41.7	+ 2 27	0.8	+ 5	0.358	1897
431 [1897 DN] . . .	2	13.1	12 48.4	- 2 30	0.7	+ 5	0.388	1898
438 [1898 DU] . . .	3	13.1	12 49.2	+ 1 57	0.9	+ 3	0.164	1898
378 [1893 AP] . . .	4	13.2	12 52.4	-12 20	0.8	+ 6	0.329	1897
338 Budrosa	4	12.2	12 54.6	-15 42	0.8	+ 5	0.297	1893
377 [1893 AN] . . .	4	13.0	12 55.8	- 8 50	0.8	+ 7	0.272	1899
391 Ingeborg	6	14.8	12 59.2	-15 54	0.8	+11	0.294	1896
105 Artemis	6	10.3	13 2.4	- 0 27	0.7	+20	0.023	1898
420 Bertholda . . .	6	12.4	13 4.7	-14 24	0.7	+ 5	0.392	1897
193 Ambrosia . . .	7	12.9	13 5.8	-16 21	1.0	+ 3	0.278	1879
294 Felicia	8	14.7	13 9.8	+ 0 52	0.7	+ 5	0.374	1891
152 Atala	8	12.4	13 10.0	+ 0 37	0.8	+ 2	0.346	1894
171 Ophelia	9	11.6	13 11.1	- 3 22	0.7	+ 4	0.272	1897
316 Goberta	10	13.7	13 17.9	- 4 48	0.7	+ 5	0.381	1891
* 61 Danaë	14	11.5	13 28.5	-32 53	1.0	+ 1	0.363	1899
66 Maja	14	13.0	13 29.6	-10 47	0.9	+ 4	0.312	1893
18 Melpomene . . .	15	10.4	13 35.1	+ 3 25	0.9	+ 7	0.256	1896
440 [1898 EC] . . .	19	13.1	13 47.3	-14 9	1.0	+ 6	0.089	1899
203 Pompeja	20	11.0	13 52.0	-15 2	0.9	+ 4	0.278	1895
201 Penelope	20	12.3	13 54.9	- 4 52	0.8	+ 6	0.278	1897
297 Caecilia	20	13.4	13 54.6	-21 51	0.7	+ 3	0.351	1891
299 Thora	21	14.7	13 55.8	-13 16	0.9	+ 6	0.198	1892
329 Svea	24	11.4	14 11.1	+ 2 56	0.8	+11	0.153	1896
206 Hersilia	25	12.1	14 12.0	- 7 31	0.8	+ 5	0.256	1895
186 Celuta	25	11.6	14 13.0	-22 40	1.2	0	0.158	1897
140 Siwa	25	11.0	14 13.2	- 8 10	0.9	+ 4	0.192	1896
350 Ornamenta . . .	26	13.4	14 13.5	+19 27	0.8	0	0.414	1894

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Decl.	$\Delta\alpha$	$\Delta\delta$	Log- Δ	
* 92 Undina	April 29	11.0	14 ^h 27.9 ^m	- 0° 43'	0.8	+3'	0.357	1897
388 [1894 BA] . .	30	11.8	14 29.4	-22 8	0.9	+2	0.311	1894
240 Vanadis	Mai 2	13.5	14 38.0	-12 21	0.9	+4	0.343	1897
302 Clarissa	3	14.4	14 40.2	-18 58	1.0	+4	0.219	1892
364 [1893 T] . . .	3	12.5	14 40.5	- 6 14	1.0	+4	0.188	1896
120 Lachesis . . .	3	11.4	14 41.0	-25 36	0.8	+2	0.285	1897
310 Margarita . . .	6	12.9	14 55.5	-17 9	0.8	+5	0.170	1891
252 Clementina . .	7	13.2	14 56.5	-11 7	0.8	+5	0.362	1892
291 Alice	7	13.6	14 58.4	-13 44	1.0	+5	0.084	1893
* 106 Dione	8	12.1	15 3.5	-15 32	0.8	+2	0.421	1898
* 79 Eurynome . .	9	11.5	15 5.5	-14 43	0.9	+5	0.279	1899
139 Juewa	10	10.4	15 10.2	-32 7	1.1	0	0.191	1898
250 Bettina	11	12.2	15 12.8	-26 33	0.9	0	0.386	1899
47 Aglaja	16	10.9	15 29.1	-25 20	0.9	+1	0.240	1899
349 Dembowska . .	16	10.1	15 33.7	-24 14	0.6	+1	0.321	1899
386 [1894 AY] . . .	19	10.9	15 44.3	+ 7 34	0.8	+4	0.372	1899
320 Katharina . . .	20	14.5	15 48.0	-15 44	0.8	+5	0.337	1891
309 Fraternitas . .	20	12.6	15 51.6	-26 1	1.0	+2	0.203	1891
189 Phthia	21	12.2	15 52.6	-14 59	0.9	+1	0.175	1897
* 11 Parthenope . .	21	9.1	15 53.4	-12 46	1.0	+2	0.139	1899
281 Lucretia	21	14.3	15 55.4	-25 1	1.2	+1	0.160	1890
348 May	22	13.3	15 57.1	-13 9	0.8	+1	0.354	1895
300 Geraldina . . .	23	13.8	16 1.0	-21 3	0.8	+2	0.337	1892
210 Isabella	23	13.0	16 2.0	-24 45	1.0	+1	0.305	1897
100 Hekate	24	11.3	16 3.5	-11 24	0.7	+2	0.253	1896
159 Aemilia	24	12.6	16 4.3	-12 15	0.8	+2	0.362	1897
429 [1897 DL] . . .	25	12.8	16 6.8	-14 49	0.9	+6	0.242	1897
77 Frigga	26	11.8	16 13.9	-24 34	1.0	+2	0.303	1897
* 149 Medusa	29	13.4	16 22.7	-19 54	1.1	+3	0.113	1893
255 Oppavia	29	13.7	16 23.9	-34 11	1.1	0	0.234	1890
229 Adelinda	Juni 1	13.3	16 37.5	-24 8	0.8	+1	0.356	1892
104 Klymene	1	12.9	16 39.9	-24 6	0.8	+1	0.416	1898
* 122 Gerda	2	11.3	16 41.2	-19 55	0.8	+2	0.324	1899
284 Amalia	3	11.6	16 46.2	-16 46	0.9	+9	9.950	1893
430 [1897 DM] . . .	3	14.4	16 46.7	-21 15	0.9	+4	0.404	1898
380 [1894 AR] . . .	6	12.3	16 57.8	-19 12	1.0	-1	0.194	1897
357 [1893 J]	7	12.5	17 2.6	- 4 23	0.8	-1	0.345	1893
* 65 Cybele	8	10.4	17 6.2	-17 44	0.8	+1	0.317	1899
* 247 Eukrate	10	12.1	17 14.0	-58 13	1.5	-1	0.379	1898
346 Hermentaria . .	13	11.7	17 25.2	-20 46	0.9	-2	0.277	1899
9 Metis	13	9.5	17 25.8	-25 15	1.1	-1	0.219	1899
340 Eduarda	13	13.5	17 26.8	-29 1	1.0	0	0.312	1899

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Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Decl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
251 Sophia	Juni 15	14.2	17 ^h 30 ^m .1	— 8° 57'	0.8	0	0.382	1890
403 [1895 BX] . .	17	12.3	17 47.9	—18 24	0.9	+ 3	0.295	1899
293 Brasilia	21	13.2	17 59.0	—34 42	1.0	— 2	0.310	1890
232 Russia	21	12.9	18 0.8	—13 57	0.9	— 2	0.123	1893
10 Hygiea	22	8.9	18 6.5	—25 6	0.9	+ 1	0.257	1895
48 Doris	22	11.2	18 6.8	—14 4	0.8	0	0.360	1898
172 Baucis	23	10.0	18 6.2	—39 29	1.2	+ 1	0.086	1899
97 Klotho	23	11.7	18 10.5	— 7 33	0.8	0	0.351	1894
115 Thyra	24	10.9	18 11.2	—34 44	1.2	+ 3	0.210	1897
22 Kalliope . . .	24	10.2	18 13.3	—32 32	1.0	— 4	0.328	1896
* 6 Hebe	27	8.5	18 26.1	— 6 2	1.0	— 5	0.154	1899
60 Echo	29	12.1	18 34.7	—17 37	1.0	— 1	0.260	1899
216 Kleopatra . .	Juli 1	10.3	18 42.4	— 4 57	0.9	+ 2	0.277	1896
209 Dido	3	11.3	18 47.8	—33 55	0.9	— 1	0.291	1896
276 Adelheid . . .	4	12.2	18 56.4	+ 6 41	1.0	— 2	0.380	1898
2 Pallas	5	9.2	18 56.9	+21 56	0.8	— 3	0.410	1899
230 Athamantis .	5	10.3	18 59.1	—11 11	1.0	+ 2	0.138	1897
402 [1895 BW] . .	6	11.1	19 0.2	—14 44	0.9	— 5	0.244	1899
*288 Glauke	6	12.1	19 1.7	—20 38	0.9	— 3	0.192	1899
360 [1893 N] . . .	6	12.4	19 2.4	—13 51	0.8	— 4	0.364	1893
36 Atalante	6	12.5	19 5.0	—49 56	1.4	— 1	0.307	1896
160 Una	9	12.0	19 11.9	—28 25	1.0	— 1	0.262	1897
223 Rosa	10	13.8	19 16.8	—24 41	0.8	— 2	0.389	1893
204 Kallisto	12	11.0	19 25.0	— 7 0	0.9	— 1	0.104	1896
423 [1896 DB] . .	13	11.0	19 29.7	—32 55	0.9	— 4	0.288	1899
224 Oceana	13	11.4	19 33.0	—30 34	1.0	0	0.185	1899
370 [1893 AC] . .	14	12.5	19 33.1	—21 32	1.1	+ 2	0.081	1895
150 Nuwa	15	11.1	19 39.2	—18 5	0.8	— 2	0.243	1893
367 [1893 AA] . .	16	12.9	19 41.6	—24 1	1.1	— 4	0.144	1896
222 Lucia	17	12.1	19 45.4	—23 13	0.8	— 3	0.237	1899
384 Burdigala . .	17	12.3	19 45.8	—29 10	1.0	— 3	0.288	1899
286 Iclea	17	13.2	19 46.8	— 6 25	0.7	— 6	0.343	1898
49 Pales	17	11.0	19 47.3	—20 45	0.8	— 1	0.310	1895
20 Massalia	20	9.9	19 57.5	—19 36	1.0	— 3	0.235	1899
325 Heidelberga .	21	12.7	20 3.3	—29 41	0.9	— 1	0.383	1898
168 Sibylla	21	11.5	20 5.0	—13 36	0.7	— 2	0.365	1898
34 Circe	23	11.9	20 11.4	—12 24	0.9	— 3	0.282	1899
385 Ilmatar	23	10.7	20 12.1	—35 32	1.1	0	0.311	1899
112 Iphigenia . . .	27	10.8	20 25.5	—21 0	1.0	— 2	0.053	1895
94 Aurora	27	11.4	20 26.6	—29 49	0.9	— 2	0.353	1895
273 Atropos	29	10.7	20 31.5	+ 2 22	0.8	—16	0.030	1897
29 Amphitrite . .	29	9.2	20 35.5	—26 42	1.1	— 2	0.205	1899

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Decl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
*190 Ismene	Juli 29	12.7	20 ^h 36.3 ^m	-12° 25'	0.6 ^m	- 3	0.543	1898
*118 Peitho	31	11.3	20 42.3	-30 55	1.1	- 4	0.222	1899
353 [1893 F]	Aug. 1	14.4	20 44.6	-21 56	1.0	- 5	0.248	1893
98 Ianthe	1	12.4	20 46.9	-35 51	1.1	0	0.331	1894
1 Ceres	3	7.8	20 54.6	-29 58	0.9	- 5	0.294	1899
366 Vincentina	5	12.1	20 59.8	-27 15	0.9	- 1	0.290	1898
131 Vala	5	12.2	21 3.8	-25 6	1.0	- 8	0.150	1899
428 Monachia	6	13.1	21 5.9	-27 41	1.1	- 3	0.065	1897
418 [1896 CV]	7	12.1	21 10.6	- 4 56	0.9	- 2	0.144	1896
419 [1896 CW]	8	9.7	21 14.5	- 7 53	0.9	- 4	0.025	1899
263 Dresda	9	13.0	21 16.9	-13 43	0.8	- 4	0.242	1898
202 Chryseis	9	11.2	21 17.9	-15 35	0.7	- 6	0.375	1895
356 [1893 G]	9	12.2	21 18.0	-24 26	1.0	- 2	0.277	1898
321 Florentina	10	13.3	21 22.3	-19 33	0.8	- 4	0.285	1898
358 [1893 K]	11	12.5	21 22.8	-12 11	0.8	- 5	0.278	1899
167 Urda	12	12.8	21 28.2	-13 45	0.7	- 4	0.239	1895
390 [1894 BC]	13	13.9	21 30.9	- 9 17	1.1	- 1	0.298	1897
156 Xanthippe	18	13.1	21 50.7	- 2 3	0.7	+ 2	0.451	1875
408 [1895 CD]	19	13.1	21 54.6	- 5 41	0.8	- 2	0.296	1895
43 Ariadne	20	9.1	21 56.9	- 5 37	1.0	- 4	9.966	1897
83 Beatrix	20	11.6	21 58.3	-20 7	1.0	- 3	0.193	1899
195 Eurykleia	24	12.4	22 15.1	-17 51	0.7	- 1	0.291	1896
274 Philagoria	25	13.8	22 15.3	-15 39	0.8	- 5	0.342	1899
421 Zähringia	26	12.7	22 20.9	- 1 5	0.7	- 9	0.006	1896
59 Elpis	27	10.4	22 24.3	- 5 42	0.8	- 8	0.164	1894
351 Yrsa	27	12.9	22 26.0	-21 19	0.8	- 6	0.330	1894
312 Pierretta	29	12.0	22 34.1	-17 52	0.9	- 2	0.193	1899
50 Virginia	31	9.8	22 36.4	- 7 5	0.7	- 6	9.974	1896
298 Baptistina	Sept. 3	14.1	22 48.4	-13 6	1.0	- 4	0.165	1893
296 Phaëtusa	3	12.3	22 49.2	-10 4	0.9	- 6	9.956	1890
406 [1895 CB]	5	12.4	22 55.7	- 3 23	0.8	- 3	0.138	1895
*226 Weringia	10	12.3	23 16.0	-19 30	0.7	-11	0.139	1898
221 Eos	10	10.6	23 16.3	-12 14	0.7	- 8	0.235	1898
328 Gudrun	11	12.4	23 18.6	- 6 49	0.9	- 1	0.338	1892
285 Regina	11	13.8	23 19.0	+16 39	1.0	0	0.183	1889
354 Eleonora	13	10.6	23 23.7	-17 13	0.7	- 9	0.322	1899
* 24 Themis	15	11.4	23 32.0	- 3 52	0.7	- 5	0.393	1898
*108 Hecuba	15	12.2	23 33.2	- 2 52	0.7	- 4	0.404	1898
389 [1894 BB]	16	11.5	23 34.4	+10 29	0.9	- 5	0.254	1899
* 82 Alkmene	16	12.0	23 38.1	- 4 52	0.8	- 5	0.335	1898
175 Andromache	19	11.2	23 46.5	- 4 13	0.8	- 4	0.218	1897
87 Sylvia	20	11.4	23 51.6	-18 1	0.7	- 4	0.340	1897

414 OPPOSITIONEN DER KL. PLANETEN FÜR 1900.

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Decl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
387 Aquitania . . .	Sept. 21	9.1	23 ^h 52.4 ^m	-24° 3'	0.8 ^m	- 9	0.159	1899
287 Nephthys . . .	21	10.7	23 53.0	-11 21	0.8	- 9	0.134	1899
133 Cyrene	21	11.5	23 55.5	+ 6 49	0.8	- 4	0.342	1896
334 Chicago	22	12.0	0 0.0	- 4 46	0.6	- 4	0.455	1899
107 Camilla	23	11.3	0 0.8	- 0 57	0.6	- 6	0.407	1894
*241 Germania	23	10.7	0 3.1	+ 9 43	0.8	- 5	0.250	1899
261 Prymno	25	12.3	0 6.7	- 5 48	0.9	- 6	0.184	1897
344 Desiderata	26	10.6	0 14.7	-27 56	1.3	+ 5	0.087	1896
342 Endymion	27	12.7	0 14.6	+11 11	0.9	- 7	0.182	1896
404 [1895 BY]	27	13.9	0 15.1	-21 1	0.9	- 5	0.310	1899
322 Phaeo	29	11.1	0 21.7	+17 17	0.7	- 7	0.045	1895
414 [1896 CN]	29	13.0	0 23.4	-11 30	0.7	- 5	0.365	1896
143 Adria	29	12.8	0 25.1	+13 55	0.9	- 2	0.287	1895
3 Juno	29	7.4	0 25.1	- 4 1	0.7	-14	0.057	1899
405 [1895 BZ]	30	12.3	0 25.0	+19 31	0.9	- 6	0.349	1899
12 Victoria	Oct. 3	8.9	0 37.3	+16 15	0.9	- 7	0.031	1896
*270 Anahita	5	10.2	0 42.8	+ 9 18	0.9	- 7	9.969	1897
109 Felicitas	6	10.3	0 49.8	+ 8 10	1.0	+ 1	0.009	1897
215 Oenone	9	12.7	0 57.8	+ 5 41	0.8	- 5	0.226	1896
376 [1893 AM]	9	12.2	0 59.1	+15 53	1.0	- 7	0.162	1899
213 Lilaea	9	11.6	1 1.2	- 4 25	0.8	- 5	0.234	1898
432 [1897 DO]	10	11.5	1 3.6	-14 37	1.0	- 3	0.168	1898
69 Hesperia	13	10.5	1 13.4	+ 4 44	0.7	- 7	0.284	1892
264 Libussa	13	11.3	1 15.9	- 2 9	0.9	0	0.157	1896
246 Asporina	14	12.0	1 18.1	- 6 32	0.8	- 4	0.266	1899
70 Panopaea	18	10.6	1 31.3	+ 0 35	1.0	- 1	0.172	1896
*178 Belisana	18	12.1	1 31.5	+ 8 3	0.9	- 5	0.181	1894
326 Tamara	19	11.5	1 36.0	+ 4 13	1.3	+ 3	0.157	1899
347 Pariana	19	12.7	1 36.9	- 6 53	0.9	- 3	0.299	1899
335 Roberta	20	11.6	1 40.8	+ 2 43	0.9	- 6	0.163	1899
425 [1896 DC]	20	13.5	1 42.3	+ 6 58	0.8	- 4	0.320	1896
269 Justitia	20	13.0	1 42.4	+ 3 46	0.9	- 6	0.238	1895
* 17 Thetis	22	10.4	1 46.7	+ 1 29	0.9	- 5	0.214	1899
173 Ino	24	9.8	1 57.2	-11 23	0.7	- 8	0.092	1899
177 Irma	25	10.9	1 57.3	+13 18	0.8	- 4	0.059	1895
305 Gordonia	27	11.8	2 7.8	+12 33	0.8	- 6	0.248	1894
44 Nysa	29	9.2	2 9.7	+ 5 15	0.9	- 6	0.069	1896
*433 Eros	30	9.3	2 18.4	+53 32	1.8	+ 9	9.616	1899
254 Augusta	30	13.9	2 18.7	+15 8	1.1	- 3	0.141	1892
265 Anna	30	15.3	2 18.8	+51 11	1.5	0	0.344	1899
365 [1893 V]	31	11.3	2 21.3	+ 2 33	0.7	- 9	0.151	1898
227 Philosophia	Nov. 1	13.8	2 27.7	+27 5	0.8	- 3	0.451	1897

OPPOSITIONEN DER KL PLANETEN FÜR 1900. 415

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Decl.	$\Delta \alpha$	$\Delta \delta$	Log. Δ	
424 [1896.DF] . . .	Nov. 1	12.2	2 ^h 28 ^m .0	+ 1° 59'	0 ^m .9	— 2'	0.187	1898
III Ate	2	11.0	2 30.1	+23 25	1.0	— 5	0.173	1891
304 Olga	2	11.6	2 32.1	—10 57	0.9	— 7	0.069	1896
268 Adorea	4	13.1	2 39.2	+11 59	0.8	— 4	0.381	1897
211 Isolda	5	10.6	2 41.5	+20 1	1.0	— 6	0.210	1895
151 Abundantia . . .	5	11.8	2 43.3	+16 40	1.0	— 2	0.220	1898
90 Antiope	7	11.7	2 52.3	+14 59	0.8	— 3	0.342	1899
258 Tyche	10	10.1	3 1.9	+ 8 18	0.8	—12	0.086	1899
249 Ilse	10	12.5	3 2.8	+37 1	1.2	— 2	9.988	1896
*176 Idunna	11	10.2	3 5.9	+ 0 57	0.7	—11	0.230	1898
272 Antonia	12	13.5	3 8.9	+19 14	1.0	— 2	0.239	1890
303 Josephina	12	11.7	3 12.7	+27 54	0.9	— 2	0.285	1899
* 76 Freia	13	11.2	3 12.4	+16 53	0.8	— 4	0.287	1898
244 Sita	14	13.0	3 21.1	+16 12	1.0	— 2	9.972	1890
*170 Maria	17	11.5	3 30.6	+41 7	1.2	— 6	0.169	1899
363 [1893.S]	17	11.4	3 30.7	+17 18	1.0	— 1	0.218	1899
212 Medea	21	11.5	3 46.3	+26 31	0.9	— 3	0.246	1896
32 Pomona	21	10.9	3 48.8	+17 15	1.0	— 5	0.241	1899
162 Laurentia	24	12.0	4 1.8	+24 40	1.0	— 1	0.270	1897
129 Antigone	25	11.3	4 4.0	+ 4 5	0.8	— 1	0.401	1894
16 Psyche	27	9.1	4 14.8	+16 17	0.9	— 2	0.215	1899
245 Vera	27	11.5	4 15.6	+21 50	0.9	0	0.196	1896
38 Leda	27	10.6	4 15.8	+30 30	1.1	— 4	0.146	1898
217 Eudora	28	13.3	4 18.8	+ 5 56	0.9	— 2	0.288	1890
239 Adrastea	28	13.1	4 19.9	+12 0	0.9	— 3	0.152	1890
125 Liberatrix	30	11.6	4 23.9	+14 43	0.9	— 2	0.290	1893
39 Laetitia	Dec. 1	9.2	4 29.0	+ 5 6	0.9	— 1	0.217	1897
236 Honoria	1	12.0	4 31.9	+10 51	0.9	— 3	0.205	1890
41 Daphne	2	11.6	4 32.5	+ 0 51	0.8	— 3	0.385	1893
85 Io	2	11.0	4 36.0	+ 8 31	0.9	— 4	0.234	1899
155 Scylla	2	11.9	4 36.5	+34 32	1.1	+ 5	0.080	1875
*121 Hermione	3	11.0	4 40.6	+21 11	0.9	0	0.357	1898
295 Theresia	4	12.5	4 41.3	+24 13	0.9	— 3	0.128	1897
277 Elvira	4	12.9	4 44.3	+21 44	0.9	— 2	0.253	1895
207 Hedda	5	11.5	4 47.1	+27 1	1.2	0	0.132	1898
368 [1893.AB]	6	13.8	4 53.5	+17 55	0.9	— 3	0.355	1893
51 Nemausa	8	9.9	4 57.9	+ 6 4	1.0	— 2	0.154	1899
13 Egeria	8	9.9	4 59.5	+38 39	1.3	+ 5	0.158	1898
275 Sapientia	8	11.8	5 2.6	+16 23	1.0	— 1	0.233	1897
306 Unitas	9	11.2	5 2.7	+12 12	1.1	0	0.191	1899
72 Feronia	10	11.6	5 8.1	+15 55	1.1	— 3	0.158	1898
260 Huberta	10	13.9	5 9.5	+14 11	0.9	— 1	0.403	1889

Nr. und Name	Tag der Opp.	Gr.	12 ^h Mittlere Zeit					Letzte Beob- achtung
			AR.	Decl.	$\Delta\alpha$	$\Delta\delta$	Log. Δ	
93 Minerva	Dec. 11	11.5	5 ^h 13 ^m .6	+35° 8'	1.1	0	0.333	1893
63 Ausonia	13	10.6	5 22.1	+32 0	1.2	- 2	0.235	1896
183 Istria	17	10.7	5 41.6	-20 0	0.9	+11	0.038	1897
142 Polana	18	12.7	5 43.2	+24 56	1.1	- 1	0.215	1898
157 Dejanira	18	13.3	5 44.3	+32 51	1.1	+ 8	0.035	1875
257 Silesia	19	12.1	5 48.8	+27 55	1.0	+ 1	0.249	1899
68 Leto	20	10.5	5 54.0	+31 59	1.1	+ 2	0.262	1898
220 Stephanía	21	13.8	5 56.6	+21 2	1.2	- 3	0.172	1881
52 Europa	24	9.6	6 9.2	+16 22	0.9	+ 2	0.245	1897
67 Asia	24	12.0	6 10.6	+14 44	1.0	0	0.253	1895
292 Ludovica	26	12.6	6 21.9	+42 10	1.3	+ 4	0.209	1898
127 Johanna	27	10.2	6 26.9	+35 13	1.1	+ 3	0.209	1897
103 Hera	28	10.5	6 28.3	+18 1	1.0	+ 2	0.271	1897
238 Hypatia	28	11.5	6 31.0	+ 4 22	0.9	0	0.266	1894
*153 Hilda	31	13.4	6 42.0	+15 13	0.7	0	0.561	1898
* 56 Melete	31	12.4	6 44.2	+11 25	1.0	+ 1	0.343	1899
165 Loreley	32	11.5	6 49.2	+29 18	0.8	- 2	0.374	1896
136 Austria	36	11.7	7 3.7	+ 6 57	1.0	+ 2	0.173	1898
35 Leukothea	36	12.1	7 4.8	+34 20	1.1	+ 1	0.293	1898
55 Pandora	38	10.8	7 12.7	+33 42	1.1	+ 1	0.244	1893
331 Etheridgea	40	12.6	7 19.4	+31 10	1.2	+ 3	0.329	1899
27 Euterpe	40	8.6	7 20.0	+22 58	1.1	+ 3	9.989	1899
355 Gabriella	40	12.5	7 23.7	+28 57	1.1	+ 1	0.115	1893
411 [1896 <i>CJ</i>]	44	13.3	7 37.9	+23 43	0.9	+ 6	0.411	1896
392 Wilhelmina	45	12.8	7 43.7	- 1 46	0.8	+ 2	0.375	1894
80 Sappho	46	11.0	7 49.4	+ 6 53	1.0	+ 2	0.174	1896
237 Coelestina	48	12.0	7 57.6	+28 34	1.0	+ 5	0.295	1897
407 [1895 <i>CC</i>]	50	11.9	8 7.3	+19 16	1.1	0	0.223	1899
74 Galatea	56	12.1	8 28.7	+13 12	0.9	+ 4	0.293	1897
91 Aegina	60	12.4	8 46.8	+21 18	1.0	+ 4	0.146	1897

Von den mit einem Sternchen (*) bezeichneten Planeten enthält das Jahrbuch (S. 417 - 455) ausführliche Ephemeriden.

Nicht aufgeführt sind in dieser Tabelle die Oppositionen der Planeten 323, 1894 *BD* und von 441 an, sowie aller Planeten, für welche nur Kreisbahnen berechnet sind.

(113) AMALTHEA 1900.

12 ^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Jan.	1	9 ^h 4 ^m 5.27		+16° 21' 18.8		0.155686	II ^m 53 ^s
	2	9 3 33.52	-31.75	16 25 58.8	+4 40.0	0.153354	II 49
	3	9 2 59.97	33.55	16 30 47.9	4 49.1	0.151078	II 46
	4	9 2 24.66	35.31	16 35 45.7	4 57.8	0.148859	II 42
	5	9 1 47.63	37.03	16 40 51.9	5 6.2	0.146699	II 39
	6	9 1 8.90	-38.73	+16 46 6.4	+5 14.5	0.144599	II 35
	7	9 0 28.53	40.37	16 51 28.8	5 22.4	0.142563	II 32
	8	8 59 46.55	41.98	16 56 58.8	5 30.0	0.140592	II 29
	9	8 59 3.00	43.55	17 2 36.1	5 37.3	0.138689	II 26
	10	8 58 17.94	45.06	17 8 20.3	5 44.2	0.136854	II 23
	11	8 57 31.40	-46.54	+17 14 11.1	+5 50.8	0.135090	II 20
	12	8 56 43.46	47.94	17 20 8.2	5 57.1	0.133398	II 18
	13	8 55 54.15	49.31	17 26 11.1	6 2.9	0.131781	II 15
	14	8 55 3.53	50.62	17 32 19.4	6 8.3	0.130240	II 13
	15	8 54 11.67	51.86	17 38 32.9	6 13.5	0.128776	II 10
	16	8 53 18.61	-53.06	+17 44 51.0	+6 18.1	0.127392	II 8
	17	8 52 24.43	54.18	17 51 13.3	6 22.3	0.126089	II 6
	18	8 51 29.20	55.23	17 57 39.5	6 26.2	0.124868	II 4
	19	8 50 32.98	56.22	18 4 9.0	6 29.5	0.123730	II 3
	20	8 49 35.85	57.13	18 10 41.4	6 32.4	0.122678	II 1
	21	8 48 37.88	-57.97	+18 17 16.2	+6 34.8	0.121712	II 0
	22	8 47 39.15	58.73	18 23 53.0	6 36.8	0.120833	IO 58
	23	8 46 39.74	59.41	18 30 31.4	6 38.4	0.120043	IO 57
	24	8 45 39.74	60.00	18 37 10.7	6 39.3	0.119342	IO 56
	25	8 44 39.23	60.51	18 43 50.5	6 39.8	0.118731	IO 55
26	8 43 38.30	-60.93	+18 50 30.4	+6 39.9	0.118212	IO 54	
27	8 42 37.04	61.26	18 57 9.8	6 39.4	0.117783	IO 54	
28	8 41 35.55	61.49	19 3 48.3	6 38.5	0.117447	IO 53	
29	8 40 33.93	61.62	19 10 25.3	6 37.0	0.117202	IO 53	
30	8 39 32.25	61.68	19 17 0.4	6 35.1	0.117050	IO 53	
31	8 38 30.63	-61.62	+19 23 33.0	+6 32.6	0.116990	IO 53	
Febr.	1	8 37 29.17	61.46	19 30 2.8	6 29.8	0.117022	IO 53
	2	8 36 27.96	61.21	19 36 29.1	6 26.3	0.117146	IO 53
	3	8 35 27.09	60.87	19 42 51.8	6 22.7	0.117360	IO 53
	4	8 34 26.67	60.42	19 49 10.2	6 18.4	0.117665	IO 54
	5	8 33 26.78	-59.89	+19 55 24.0	+6 13.8	0.118059	IO 54
	6	8 32 27.53	59.25	20 1 32.9	6 8.9	0.118541	IO 55

Opp. in AR. Jan. 27 Gröfse = 10.8

W. Luther.

(154) BERTHA 1900.

	12^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Jan.	11	9 ^h 17 ^m 44.98		+46° 55' 39.0		0.350358	18 ^m 37 ^s
	12	9 16 52.74	-52.24	47 2 39.2	+7 0.2	0.349610	18 35
	13	9 15 59.05	53.69	47 9 29.3	6 50.1	0.348910	18 34
	14	9 15 3.96	55.09	47 16 8.5	6 39.2	0.348258	18 32
	15	9 14 7.51	56.45	47 22 36.5	6 28.0	0.347654	18 30
	16	9 13 9.76	-57.75	+47 28 53.0	+6 16.5	0.347098	18 29
	17	9 12 10.79	58.97	47 34 57.4	6 4.4	0.346592	18 28
	18	9 11 10.65	60.14	47 40 49.2	5 51.8	0.346136	18 27
	19	9 10 9.40	61.25	47 46 28.0	5 38.8	0.345730	18 26
	20	9 9 7.10	62.30	47 51 53.5	5 25.5	0.345374	18 25
	21	9 8 3.83	-63.27	+47 57 5.2	+5 11.7	0.345069	18 24
	22	9 6 59.68	64.15	48 2 2.7	4 57.5	0.344815	18 23
	23	9 5 54.72	64.96	48 6 45.6	4 42.9	0.344611	18 23
	24	9 4 49.02	65.70	48 11 13.6	4 28.0	0.344459	18 23
	25	9 3 42.65	66.37	48 15 26.3	1 12.7	0.344358	18 22
	26	9 2 35.70	-66.95	+48 19 23.3	+3 57.0	0.344308	18 22
	27	9 1 28.27	67.43	48 23 4.4	3 41.1	0.344309	18 22
	28	9 0 20.43	67.84	48 26 29.2	3 24.8	0.344361	18 22
	29	8 59 12.27	68.16	48 29 37.6	3 8.4	0.344464	18 22
	30	8 58 3.89	68.38	48 32 29.2	2 51.6	0.344618	18 23
	♂ 31	8 56 55.37	-68.52	+48 35 3.8	+2 34.6	0.344824	18 23
Febr.	1	8 55 46.81	68.56	48 37 21.4	2 17.6	0.345079	18 24
	2	8 54 38.32	68.49	48 39 21.8	2 0.4	0.345383	18 25
	3	8 53 29.98	68.34	48 41 4.9	1 43.1	0.345737	18 26
	4	8 52 21.87	68.11	48 42 30.6	1 25.7	0.346141	18 27
	5	8 51 14.09	-67.78	+48 43 38.9	+1 8.3	0.346593	18 28
	6	8 50 6.72	67.37	48 44 29.9	0 51.0	0.347092	18 29
	7	8 48 59.85	66.87	48 45 3.5	0 33.6	0.347638	18 30
	8	8 47 53.57	66.28	48 45 19.9	+0 16.4	0.348231	18 32
	9	8 46 47.95	65.62	48 45 19.1	-0 0.8	0.348869	18 34
	10	8 45 43.07	-64.88	+48 45 1.1	-0 18.0	0.349553	18 35
	11	8 44 39.02	64.05	48 44 26.2	0 34.9	0.350281	18 37
	12	8 43 35.87	63.15	48 43 34.5	0 51.7	0.351053	18 39
	13	8 42 33.69	62.18	48 42 26.1	1 8.4	0.351868	18 41
	14	8 41 32.54	61.15	48 41 1.2	1 24.9	0.352726	18 43
	15	8 40 32.50	-60.04	+48 39 20.0	-1 41.2	0.353626	18 46
	16	8 39 33.63	58.87	48 37 22.7	1 57.3	0.354566	18 48

Opp. in AR. Jan. 31 GröÙe = 11.2

P. Neugebauer.

(33) POLYHYMNIA 1900.

12 ^b Mittl. Zeit	AR.	Dif.	Decl.	Dif.	Log. Δ	Aberr.-Zt.
Jan. 27	10 ^h 7 ^m 53.61		+13° 28' 36.7		0.444959	23 ^m 9 ^s
28	10 7 10.60	-43.01	13 32 32.0	+3 55.3	0.444263	23 7
29	10 6 26.91	43.69	13 36 29.6	3 57.6	0.443612	23 5
30	10 5 42.58	44.33	13 40 29.4	3 59.8	0.443007	23 3
31	10 4 57.64	44.94	13 44 31.1	4 1.7	0.442449	23 1
		-45.51		+4 3.4		
Febr. 1	10 4 12.13	46.03	+13 48 34.5	4 4.8	0.441938	22 59
2	10 3 26.10	46.53	13 52 39.3	4 6.0	0.441474	22 58
3	10 2 39.57	46.97	13 56 45.3	4 7.0	0.441058	22 56
4	10 1 52.60	47.38	14 0 52.3	4 7.7	0.440691	22 55
5	10 1 5.22	-47.75	14 5 0.0	4 8.1	0.440373	22 54
6	10 0 17.47	48.08	+14 9 8.1	4 8.4	0.440104	22 53
7	9 59 29.39	48.38	14 13 16.5	4 8.4	0.439884	22 53
8	9 58 41.01	48.62	14 17 24.9	4 8.2	0.439714	22 52
9	9 57 52.39	48.82	14 21 33.1	4 7.8	0.439594	22 52
10	9 57 3.57	-48.99	14 25 40.9	4 7.1	0.439523	22 52
11	9 56 14.58	49.12	+14 29 48.0	4 6.3	0.439502	22 51
12	9 55 25.46	49.20	14 33 54.3	4 5.2	0.439532	22 52
13	9 54 36.26	49.25	14 37 59.5	4 3.9	0.439612	22 52
♂ 14	9 53 47.01	49.26	14 42 3.4	4 2.4	0.439742	22 52
15	9 52 57.75	-49.22	14 46 5.8	4 0.6	0.439922	22 52
16	9 52 8.53	49.15	+14 50 6.4	3 58.8	0.440151	22 53
17	9 51 19.38	49.02	14 54 5.2	3 56.6	0.440430	22 54
18	9 50 30.36	48.87	14 58 1.8	3 54.3	0.440759	22 55
19	9 49 41.49	48.66	15 1 56.1	3 51.8	0.441137	22 57
20	9 48 52.83	-48.43	15 5 47.9	4 49.1	0.441565	22 58
21	9 48 4.40	48.15	+15 9 37.0	3 46.2	0.442041	23 0
22	9 47 16.25	47.83	15 13 23.2	3 43.1	0.442566	23 1
23	9 46 28.42	47.47	15 17 6.3	3 39.9	0.443139	23 3
24	9 45 40.95	47.07	15 20 46.2	3 36.4	0.443760	23 5
25	9 44 53.88	-46.63	15 24 22.6	3 32.9	0.444428	23 7
26	9 44 7.25	46.15	+15 27 55.5	3 29.1	0.445143	23 9
27	9 43 21.10	45.63	15 31 24.6	3 25.2	0.445904	23 12
28	9 42 35.47	45.07	15 34 49.8	3 21.1	0.446710	23 14
März 1	9 41 50.40	44.48	15 38 10.9	3 16.8	0.447561	23 17
2	9 41 5.92	-43.85	15 41 27.7	3 12.4	0.448457	23 20
3	9 40 22.07	43.18	+15 44 40.1	3 7.9	0.449396	23 23
4	9 39 38.89		15 47 48.0		0.450378	23 26

Opp. in AR. Febr. 14 Gröfse = 13.3

A. Berberich.

(164) EVA 1900.

12 ^h Mittl. Zeit	AR.	Dif.	Decl.	Dif.	Log. Δ	Aberr.-Zt.
Fehr. 11	11 18 ^m 18.84		+40° 4 45.5		0.392490	20 ^m 31
12	11 17 25.06	-53.78	40 13 27.5	+8 42.0	0.392443	20 31
13	11 16 30.21	54.85	40 21 58.2	8 30.7	0.392442	20 31
14	11 15 34.36	55.85	40 30 17.2	8 19.0	0.392488	20 31
15	11 14 37.55	56.81	40 38 23.9	8 6.7	0.392580	20 31
16	11 13 39.83	-57.72	+40 46 17.9	+7 54.0	0.392719	20 32
17	11 12 41.27	58.56	40 53 59.0	7 41.1	0.392905	20 32
18	11 11 41.91	59.36	41 1 26.6	7 27.6	0.393137	20 33
19	11 10 41.80	60.11	41 8 40.3	7 13.7	0.393416	20 33
20	11 9 41.01	60.79	41 15 39.7	6 59.4	0.393742	20 34
21	11 8 39.60	-61.41	+41 22 24.4	+6 44.7	0.394113	20 36
22	11 7 37.62	61.98	41 28 54.2	6 29.8	0.394531	20 37
23	11 6 35.14	62.48	41 35 8.9	6 14.7	0.394995	20 38
24	11 5 32.23	62.91	41 41 7.9	5 59.0	0.395504	20 40
25	11 4 28.94	63.29	41 46 51.1	5 43.2	0.396058	20 41
26	11 3 25.34	-63.60	+41 52 18.1	+5 27.0	0.396658	20 43
27	11 2 21.50	63.84	41 57 28.7	5 10.6	0.397303	20 44
28	11 1 17.50	64.00	42 2 22.7	4 54.0	0.397992	20 46
März 1	11 0 13.40	64.10	42 6 59.9	4 37.2	0.398725	20 49
2	10 59 9.27	64.13	42 11 20.1	4 20.2	0.399501	20 51
3	10 58 5.18	-64.09	+42 15 23.1	+4 3.0	0.400320	20 53
4	10 57 1.21	63.97	42 19 8.9	3 45.8	0.401181	20 56
5	10 55 57.42	63.79	42 22 37.4	3 28.5	0.402083	20 58
6	10 54 53.88	63.54	42 25 48.6	3 11.2	0.403026	21 1
7	10 53 50.66	63.22	42 28 42.4	2 53.8	0.404009	21 4
8	10 52 47.82	-62.84	+42 31 18.9	+2 36.5	0.405032	21 7
9	10 51 45.42	62.40	42 33 38.1	2 19.2	0.406093	21 10
10	10 50 43.52	61.90	42 35 40.1	2 2.0	0.407191	21 13
11	10 49 42.19	61.33	42 37 24.8	1 44.7	0.408327	21 17
12	10 48 41.47	60.72	42 38 52.4	1 27.6	0.409499	21 20
13	10 47 41.44	-60.03	+42 40 3.1	+1 10.7	0.410705	21 24
14	10 46 42.14	59.30	42 40 56.9	0 53.8	0.411946	21 27
15	10 45 43.62	58.52	42 41 33.9	0 37.0	0.413221	21 31
16	10 44 45.93	57.69	42 41 54.3	0 20.4	0.414529	21 35
17	10 43 49.12	56.81	42 41 58.3	+0 4.0	0.415870	21 39
18	10 42 53.23	-55.89	+42 41 46.1	-0 12.2	0.417242	21 43
19	10 41 58.35	54.88	42 41 17.7	0 28.4	0.418644	21 47

Opp. in AR. März 3 Gröfse = 12.4

P. Neugebauer.

(19) FORTUNA 1900.

12 ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Febr. 15	II 21 ^h 21 ^m 42.50 ^s		+2° 8' 54.2"		0.235787	14 ^m 18 ^s
16	II 20 56.47	-46.03	2 13 50.8	+4 56.6	0.234729	14 16
17	II 20 9.44	47.03	2 18 54.7	5 3.9	0.233734	14 14
18	II 19 21.44	48.00	2 24 5.7	5 11.0	0.232804	14 12
19	II 18 32.52	48.92	2 29 23.6	5 17.9	0.231940	14 10
20	II 17 42.76	-49.76	+2 34 47.9	+5 24.3	0.231142	14 9
21	II 16 52.21	50.55	2 40 18.3	5 30.4	0.230413	14 8
22	II 16 0.90	51.31	2 45 54.5	5 36.2	0.229754	14 7
23	II 15 8.90	52.00	2 51 36.1	5 41.6	0.229165	14 5
24	II 14 16.28	52.62	2 57 22.7	5 46.6	0.228647	14 4
25	II 13 23.09	-53.19	+3 3 13.8	+5 51.1	0.228200	14 3
26	II 12 29.38	53.71	3 9 9.2	5 55.4	0.227827	14 2
27	II 11 35.22	54.16	3 15 8.3	5 59.1	0.227529	14 2
28	II 10 40.68	54.54	3 21 10.7	6 2.4	0.227304	14 1
März 1	II 9 45.83	54.85	3 27 16.1	6 5.4	0.227154	14 1
2	II 8 50.75	-55.08	+3 33 23.9	+6 7.8	0.227080	14 1
3	II 7 55.49	55.26	3 39 33.7	6 9.8	0.227080	14 1
4	II 7 0.12	55.37	3 45 45.0	6 11.3	0.227156	14 1
♁ 5	II 6 4.72	55.40	3 51 57.3	6 12.3	0.227307	14 1
6	II 5 9.35	55.37	3 58 10.2	6 12.9	0.227533	14 2
7	II 4 14.08	-55.27	+4 4 23.3	+6 13.1	0.227835	14 2
8	II 3 18.96	55.12	4 10 36.1	6 12.8	0.228211	14 3
9	II 2 24.07	54.89	4 16 48.4	6 12.3	0.228662	14 4
10	II 1 29.48	54.59	4 22 59.6	6 11.2	0.229186	14 5
11	II 0 35.24	54.24	4 29 9.3	6 9.7	0.229784	14 6
12	IO 59 41.41	-53.83	+4 35 17.2	+6 7.9	0.230457	14 7
13	IO 58 48.05	53.36	4 41 22.8	6 5.6	0.231195	14 9
14	IO 57 55.23	52.82	4 47 25.8	6 3.0	0.232007	14 10
15	IO 57 2.99	52.24	4 53 25.6	5 59.8	0.232891	14 12
16	IO 56 11.39	51.60	4 59 22.0	5 56.4	0.233843	14 14
17	IO 55 20.48	-50.91	+5 5 14.7	+5 52.7	0.234863	14 16
18	IO 54 30.33	50.15	5 11 3.2	5 48.5	0.235950	14 18
19	IO 53 40.98	49.35	5 16 47.2	5 44.0	0.237103	14 20
20	IO 52 52.47	48.51	5 22 26.5	5 39.3	0.238321	14 23
21	IO 52 4.86	47.61	5 28 0.7	5 34.2	0.239604	14 25
22	IO 51 18.21	-46.65	+5 33 29.5	+5 28.8	0.240951	14 28
23	IO 50 32.56	45.65	5 38 52.5	5 23.0	0.242361	14 31

Opp. in AR. März 5 Größe = 10.4

P. Neugebauer.

(37) FIDES 1900.

12 ^h Mittl. Zeit	AR.	Dif.	Decl.	Dif.	Log. Δ	Aberr.-Zt.
Febr. 19	II ^h 27 ^m 16.62		+5° 47' 50.3		0.217934	13 ^m 43 ^s
20	II 26 27.92	-48.70	5 52 10.4	+4 20.1	0.217244	13 42
21	II 25 38.33	49.59	5 56 34.3	4 23.9	0.216624	13 41
22	II 24 47.91	50.42	6 1 1.7	4 27.4	0.216074	13 40
23	II 23 56.71	51.20	6 5 32.2	4 30.5	0.215595	13 39
24	II 23 4.80	-51.91	+6 10 5.4	+4 33.2	0.215188	13 38
25	II 22 12.23	52.57	6 14 41.0	4 35.6	0.214854	13 37
26	II 21 19.08	53.15	6 19 18.5	4 37.5	0.214594	13 37
27	II 20 25.40	53.68	6 23 57.4	4 38.9	0.214409	13 36
28	II 19 31.26	54.14	6 28 37.4	4 40.0	0.214299	13 36
März 1	II 18 36.74	-54.52	+6 33 18.0	+4 40.6	0.214264	13 36
2	II 17 41.90	54.84	6 37 58.8	4 40.8	0.214306	13 36
3	II 16 46.81	55.09	6 42 39.4	4 40.6	0.214423	13 36
4	II 15 51.54	55.27	6 47 19.4	4 40.0	0.214617	13 37
5	II 14 56.17	55.37	6 51 58.3	4 38.9	0.214886	13 37
6	II 14 0.76	-55.41	+6 56 35.8	+4 37.5	0.215232	13 38
♂ 7	II 13 5.39	55.37	7 1 11.4	4 35.6	0.215653	13 39
8	II 12 10.12	55.27	7 5 44.7	4 33.3	0.216150	13 40
9	II 11 15.01	55.11	7 10 15.5	4 30.8	0.216721	13 41
10	II 10 20.14	54.87	7 14 43.3	4 27.8	0.217367	13 42
11	II 9 25.56	-54.58	+7 19 7.7	+4 24.4	0.218086	13 43
12	II 8 31.34	54.22	7 23 28.6	4 20.9	0.218879	13 45
13	II 7 37.54	53.80	7 27 45.5	4 16.9	0.219743	13 46
14	II 6 44.22	53.32	7 31 58.1	4 12.6	0.220679	13 48
15	II 5 51.44	52.78	7 36 6.1	4 8.0	0.221685	13 50
16	II 4 59.26	-52.18	+7 40 9.2	+4 3.1	0.222761	13 52
17	II 4 7.74	51.52	7 44 7.1	3 57.9	0.223906	13 54
18	II 3 16.92	50.82	7 47 59.5	3 52.4	0.225118	13 57
19	II 2 26.87	50.05	7 51 46.2	3 46.7	0.226397	13 59
20	II 1 37.63	49.24	7 55 26.9	3 40.7	0.227741	14 2
21	II 0 49.26	-48.37	+7 59 1.4	+3 34.5	0.229149	14 5
22	II 0 1.80	47.46	8 2 29.4	3 28.0	0.230620	14 7
23	IO 59 15.30	46.50	8 5 50.7	3 21.3	0.232153	14 10
24	IO 58 29.81	45.49	8 9 5.0	3 14.3	0.233746	14 14
25	IO 57 45.37	44.44	8 12 12.3	3 7.3	0.235398	14 17
26	IO 57 2.03	-43.34	+8 15 12.2	+2 59.9	0.237107	14 20
27	IO 56 19.84	42.19	8 18 4.7	2 52.5	0.238873	14 24

Opp. in AR. März 7 Größe = 10.4

R. Luther.

(248) LAMEIA 1900.

12 ^h Mittl. Zeit	AR.	Dif.	Decl.	Dif.	Log. Δ	Aberr.-Zt.
Febr. 21	II 34 ^m 29.11		-4 15' 6.4		0.176193	12 ^m 28 ^s
22	II 33 45.57	-43.54	4 11 33.8	+3 32.6	0.174516	12 25
23	II 33 0.95	44.62	4 7 50.0	3 43.8	0.172905	12 22
24	II 32 15.27	45.68	4 3 55.1	3 54.9	0.171361	12 20
25	II 31 28.57	46.70	3 59 49.3	4 5.8	0.169886	12 17
26	II 30 40.90	-47.67	-3 55 32.7	+4 16.6	0.168482	12 15
27	II 29 52.34	48.56	3 51 5.7	4 27.0	0.167149	12 13
28	II 29 2.96	49.38	3 46 28.9	4 36.8	0.165889	12 10
März 1	II 28 12.81	50.15	3 41 42.3	4 46.6	0.164704	12 8
2	II 27 21.95	50.86	3 36 46.3	4 56.0	0.163595	12 7
3	II 26 30.47	-51.48	-3 31 41.3	+5 5.0	0.162564	12 5
4	II 25 38.43	52.04	3 26 27.8	5 13.5	0.161610	12 3
5	II 24 45.90	52.53	3 21 6.1	5 21.7	0.160735	12 2
6	II 23 52.96	52.94	3 15 36.5	5 29.6	0.159940	12 0
7	II 22 59.68	53.28	3 9 59.5	5 37.0	0.159226	11 59
8	II 22 6.12	-53.56	-3 4 15.6	+5 43.9	0.158592	11 58
♃ 9	II 21 12.37	53.75	2 58 25.2	5 50.4	0.158040	11 57
10	II 20 18.50	53.87	2 52 28.7	5 56.5	0.157571	11 57
11	II 19 24.57	53.93	2 46 26.6	6 2.1	0.157184	11 56
12	II 18 30.65	53.92	2 40 19.6	6 7.0	0.156878	11 55
13	II 17 36.83	-53.82	-2 34 7.9	+6 11.7	0.156655	11 55
14	II 16 43.16	53.67	2 27 52.0	6 15.9	0.156513	11 55
15	II 15 49.72	53.44	2 21 32.4	6 19.6	0.156454	11 55
16	II 14 56.58	53.14	2 15 9.7	6 22.7	0.156476	11 55
17	II 14 3.81	52.77	2 8 44.3	6 25.4	0.156579	11 55
18	II 13 11.49	-52.32	-2 2 16.6	+6 27.7	0.156765	11 55
19	II 12 19.68	51.81	1 55 47.1	6 29.5	0.157032	11 56
20	II 11 28.44	51.24	1 49 16.5	6 30.6	0.157379	11 56
21	II 10 37.83	50.61	1 42 45.1	6 31.4	0.157806	11 57
22	II 9 47.91	49.92	1 36 13.5	6 31.6	0.158312	11 58
23	II 8 58.75	-49.16	-1 29 42.2	+6 31.3	0.158897	11 59
24	II 8 10.43	48.32	1 23 11.7	6 30.5	0.159559	12 0
25	II 7 23.01	47.42	1 16 42.3	6 29.4	0.160297	12 1
26	II 6 36.56	46.45	1 10 14.7	6 27.6	0.161110	12 2
27	II 5 51.14	45.42	1 3 49.4	6 25.3	0.161997	12 4
28	II 5 6.79	-44.35	-0 57 26.8	+6 22.6	0.162958	12 5
29	II 4 23.56	43.23	0 51 7.3	6 19.5	0.163992	12 7

Opp. in AR. März 9 GröÙe = 12.9

P. Neugebauer.

(46) HESTIA 1900.

12 ^h Mittl. Zeit		AR.	Dif.	Decl.	Dif.	Log. Δ	Aberr.-Zt.
März	4	12 ^h 19 ^m 41.93		-2° 19' 51.2		0.300607	16 ^m 36 ^s
	5	12 18 58.51	-43.42	2 14 30.7	+5 20.5	0.299420	16 33
	6	12 18 14.23	44.28	2 9 4.2	5 26.5	0.298290	16 30
	7	12 17 29.13	45.10	2 3 32.1	5 32.1	0.297218	16 28
	8	12 16 43.26	45.87	1 57 54.7	5 37.4	0.296205	16 26
	9	12 15 56.68	-46.58	-1 52 12.2	+5 42.5	0.295251	16 24
	10	12 15 9.42	47.26	1 46 25.0	5 47.2	0.294358	16 22
	11	12 14 21.54	47.88	1 40 33.4	5 51.6	0.293526	16 20
	12	12 13 33.07	48.47	1 34 37.8	5 55.6	0.292756	16 18
	13	12 12 44.07	49.00	1 28 38.5	5 59.3	0.292048	16 16
	14	12 11 54.60	-49.47	-1 22 35.8	+6 2.7	0.291404	16 15
	15	12 11 4.68	49.92	1 16 29.9	6 5.9	0.290824	16 13
	16	12 10 14.39	50.29	1 10 21.2	6 8.7	0.290308	16 12
	17	12 9 23.77	50.62	1 4 10.2	6 11.0	0.289856	16 11
	18	12 8 32.86	50.91	0 57 57.1	6 13.1	0.289470	16 10
	19	12 7 41.72	-51.14	-0 51 42.4	+6 14.7	0.289149	16 10
	20	12 6 50.42	51.30	0 45 26.4	6 16.0	0.288894	16 10
	21	12 5 59.00	51.42	0 39 9.5	6 16.9	0.288705	16 9
22	12 5 7.51	51.49	0 32 52.1	6 17.4	0.288582	16 9	
23	12 4 16.01	51.50	0 26 34.5	6 17.6	0.288526	16 9	
24	12 3 24.54	-51.47	-0 20 17.2	+6 17.3	0.288536	16 9	
25	12 2 33.18	51.36	0 14 0.5	6 16.7	0.288612	16 9	
26	12 1 41.96	51.22	0 7 44.8	6 15.7	0.288754	16 9	
27	12 0 50.95	51.01	-0 1 30.6	6 14.2	0.288963	16 10	
28	12 0 0.20	50.75	+0 4 41.8	6 12.4	0.289238	16 10	
29	11 59 9.76	-50.44	+0 10 52.0	+6 10.2	0.289577	16 11	
30	11 58 19.70	50.06	0 16 59.6	6 7.6	0.289981	16 12	
31	11 57 30.08	49.62	0 23 4.2	6 4.6	0.290449	16 13	
April	1	11 56 40.94	49.14	0 29 5.5	6 1.3	0.290981	16 14
	2	11 55 52.33	48.61	0 35 3.2	5 57.7	0.291577	16 15
	3	11 55 4.30	-48.03	+0 40 56.9	+5 53.7	0.292236	16 17
	4	11 54 16.92	47.38	0 46 46.3	5 49.4	0.292955	16 18
	5	11 53 30.21	46.71	0 52 31.1	5 44.8	0.293734	16 20
	6	11 52 44.22	45.99	0 58 10.9	5 39.8	0.294572	16 22
	7	11 51 59.01	45.21	1 3 45.2	5 34.3	0.295468	16 24
	8	11 51 14.64	-44.37	+1 9 13.6	+5 28.4	0.296422	16 27
	9	11 50 31.13	43.51	1 14 36.0	5 22.4	0.297432	16 29

Opp. in AR. März 22 GröÙe = 11.5

P. Neugebauer.

(61) DANAË 1900.

12 ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
März 28	13 ^h 44 ^m 15.93		−32° 42′ 39.9		0.380857	19 ^m 58 ^s
29	13 43 26.14	−49.79	32 44 53.0	−2 13.1	0.379484	19 54
30	13 42 35.40	50.74	32 46 54.1	2 1.1	0.378151	19 51
31	13 41 43.74	51.66	32 48 43.1	1 49.0	0.376859	19 47
April 1	13 40 51.22	52.52	32 50 19.9	1 36.8	0.375609	19 44
2	13 39 57.88	−53.34	−32 51 44.4	−1 24.5	0.374401	19 40
3	13 39 3.77	54.11	32 52 56.5	1 12.1	0.373237	19 37
4	13 38 8.94	54.83	32 53 56.2	0 59.7	0.372118	19 34
5	13 37 13.45	55.49	32 54 43.5	0 47.3	0.371044	19 31
6	13 36 17.34	56.11	32 55 18.4	0 34.9	0.370015	19 29
7	13 35 20.67	−56.67	−32 55 40.8	−0 22.4	0.369033	19 26
8	13 34 23.49	57.18	32 55 50.8	−0 10.0	0.368097	19 23
9	13 33 25.86	57.63	32 55 48.3	+0 2.5	0.367208	19 21
10	13 32 27.83	58.03	32 55 33.5	0 14.8	0.366368	19 19
11	13 31 29.45	58.38	32 55 6.3	0 27.2	0.365576	19 17
12	13 30 30.79	−58.66	−32 54 26.8	+0 39.5	0.364834	19 15
13	13 29 31.89	58.90	32 53 35.1	0 51.7	0.364140	19 13
♂ 14	13 28 32.82	59.07	32 52 31.3	1 3.8	0.363496	19 11
15	13 27 33.62	59.20	32 51 15.6	1 15.7	0.362902	19 10
16	13 26 34.35	59.27	32 49 48.0	1 27.6	0.362359	19 8
17	13 25 35.08	−59.27	−32 48 8.6	+1 39.4	0.361866	19 7
18	13 24 35.85	59.23	32 46 17.7	1 50.9	0.361424	19 6
19	13 23 36.72	59.13	32 44 15.3	2 2.4	0.361033	19 5
20	13 22 37.76	58.96	32 42 1.8	2 13.5	0.360694	19 4
21	13 21 39.02	58.74	32 39 37.2	2 24.6	0.360407	19 3
22	13 20 40.56	−58.46	−32 37 1.9	+2 35.3	0.360171	19 3
23	13 19 42.43	58.13	32 34 15.9	2 46.0	0.359987	19 2
24	13 18 44.68	57.75	32 31 19.7	2 56.2	0.359854	19 2
25	13 17 47.38	57.30	32 28 13.4	3 6.3	0.359773	19 1
26	13 16 50.59	56.79	32 24 57.3	3 16.1	0.359744	19 1
27	13 15 54.37	−56.22	−32 21 31.9	+3 25.4	0.359767	19 1
28	13 14 58.76	55.61	32 17 57.3	3 34.6	0.359841	19 2
29	13 14 3.82	54.94	32 14 13.9	3 43.4	0.359966	19 2
30	13 13 9.61	54.21	32 10 22.2	3 51.7	0.360141	19 2
Mai 1	13 12 16.18	53.43	32 6 22.4	3 59.8	0.360367	19 3
2	13 11 23.57	−52.61	−32 2 14.9	+4 7.5	0.360643	19 4
3	13 10 31.84	51.73	31 58 0.2	4 14.7	0.360968	19 5

Opp. in AR. April 14 GröÙe = 11.5

(92) UNDINA 1900.

12 ^h Mittl. Zeit	AR.	Dif.	Decl.	Dif.	Log. Δ	Aberr.-Zt.
April 10	14 41 ^m 24.22		-1° 48' 52.3		0.366744	19 20 ^s
11	14 40 46.18	-38.04	1 44 54.8	+3 57.5	0.365756	19 17
12	14 40 7.41	38.77	1 40 59.3	3 55.5	0.364816	19 15
13	14 39 27.95	39.46	1 37 5.9	3 53.4	0.363923	19 13
14	14 38 47.82	40.13	1 33 14.9	3 51.0	0.363079	19 11
15	14 38 7.06	-40.76	-1 29 26.5	+3 48.4	0.362284	19 8
16	14 37 25.70	41.36	1 25 40.9	3 45.6	0.361539	19 6
17	14 36 43.77	41.93	1 21 58.6	3 42.3	0.360845	19 4
18	14 36 1.31	42.46	1 18 19.8	3 38.8	0.360204	19 3
19	14 35 18.37	42.94	1 14 44.6	3 35.2	0.359615	19 1
20	14 34 34.97	-43.40	-1 11 13.2	+3 31.4	0.359078	19 0
21	14 33 51.15	43.82	1 7 45.8	3 27.4	0.358593	18 58
22	14 33 6.97	44.18	1 4 22.7	3 23.1	0.358162	18 57
23	14 32 22.46	44.51	1 1 4.2	3 18.5	0.357784	18 56
24	14 31 37.67	44.79	0 57 50.4	3 13.8	0.357459	18 55
25	14 30 52.63	-45.04	-0 54 41.5	+3 8.9	0.357187	18 54
26	14 30 7.41	45.22	0 51 38.1	3 3.4	0.356970	18 54
27	14 29 22.05	45.36	0 48 40.3	2 57.8	0.356806	18 53
28	14 28 36.57	45.48	0 45 48.0	2 52.3	0.356696	18 53
♁ 29	14 27 51.03	45.54	0 43 1.5	2 46.5	0.356641	18 53
30	14 27 5.48	-45.55	-0 40 21.3	+2 40.2	0.356641	18 53
Mai 1	14 26 19.97	45.51	0 37 47.6	2 33.7	0.356696	18 53
2	14 25 34.54	45.43	0 35 20.3	2 27.3	0.356803	18 53
3	14 24 49.23	45.31	0 32 59.7	2 20.6	0.356964	18 53
4	14 24 4.10	45.13	0 30 46.0	2 13.7	0.357177	18 54
5	14 23 19.18	-44.92	-0 28 39.4	+2 6.6	0.357443	18 55
6	14 22 34.53	44.65	0 26 39.9	1 59.5	0.357761	18 55
7	14 21 50.19	44.34	0 24 47.7	1 52.2	0.358132	18 56
8	14 21 6.18	44.01	0 23 3.0	1 44.7	0.358553	18 58
9	14 20 22.56	43.62	0 21 25.8	1 37.2	0.359025	18 59
10	14 19 39.36	-43.20	-0 19 56.3	+1 29.5	0.359547	19 1
11	14 18 56.63	42.73	0 18 34.5	1 21.8	0.360119	19 3
12	14 18 14.40	42.23	0 17 20.6	1 13.9	0.360740	19 4
13	14 17 32.69	41.71	0 16 14.6	1 6.0	0.361409	19 6
14	14 16 51.56	41.13	0 15 16.6	0 58.0	0.362124	19 8
15	14 16 11.02	-40.54	-0 14 26.7	+0 49.9	0.362886	19 10
16	14 15 31.10	39.92	0 13 44.9	0 41.8	0.363693	19 12

Opp. in AR. April 29 Gröfse = 11.0

F. Anderson.

(106) DIONE 1900.

12 ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
April 16	15 ^h 19 ^m 19.51		—16° 19' 45.3		0.435168	22 ^m 38 ^s
17	15 18 42.31	—37.20	16 17 55.3	+1 50.0	0.434054	22 34
18	15 18 4.33	37.98	16 16 2.5	1 52.8	0.432980	22 31
19	15 17 25.57	38.76	16 14 7.1	1 55.4	0.431946	22 28
20	15 16 46.07	39.50	16 12 9.1	1 58.0	0.430954	22 25
21	15 16 5.87	—40.20	—16 10 8.7	+2 0.4	0.430003	22 22
22	15 15 25.00	40.87	16 8 5.9	2 2.8	0.429094	22 19
23	15 14 43.48	41.52	16 6 0.8	2 5.1	0.428228	22 16
24	15 14 1.36	42.12	16 3 53.6	2 7.2	0.427406	22 14
25	15 13 18.68	42.68	16 1 44.4	2 9.2	0.426629	22 12
26	15 12 35.46	—43.22	—15 59 33.3	+2 11.1	0.425897	22 9
27	15 11 51.73	43.73	15 57 20.5	2 12.8	0.425211	22 7
28	15 11 7.54	44.19	15 55 6.2	2 14.3	0.424571	22 5
29	15 10 22.94	44.60	15 52 50.4	2 15.8	0.423977	22 4
30	15 9 37.96	44.98	15 50 33.3	2 17.1	0.423431	22 2
Mai 1	15 8 52.64	—45.32	—15 48 14.9	+2 18.4	0.422933	22 0
2	15 8 7.01	45.63	15 45 55.5	2 19.4	0.422483	21 59
3	15 7 21.13	45.88	15 43 35.2	2 20.3	0.422081	21 58
4	15 6 35.03	46.10	15 41 14.2	2 21.0	0.421727	21 57
5	15 5 48.76	46.27	15 38 52.6	2 21.6	0.421421	21 56
6	15 5 2.35	—46.41	—15 36 30.4	+2 22.2	0.421165	21 55
7	15 4 15.84	46.51	15 34 7.8	2 22.6	0.420957	21 54
♃ 8	15 3 29.27	46.57	15 31 45.1	2 22.7	0.420798	21 54
9	15 2 42.69	46.58	15 29 22.3	2 22.8	0.420688	21 53
10	15 1 56.14	46.55	15 26 59.6	2 22.7	0.420626	21 53
11	15 1 9.65	—46.49	—15 24 37.2	+2 22.4	0.420612	21 53
12	15 0 23.26	46.39	15 22 15.1	2 22.1	0.420647	21 53
13	14 59 37.01	46.25	15 19 53.6	2 21.5	0.420732	21 54
14	14 58 50.94	46.07	15 17 32.9	2 20.7	0.420866	21 54
15	14 58 5.08	45.86	15 15 13.1	2 19.8	0.421047	21 55
16	14 57 19.47	—45.61	—15 12 54.2	+2 18.9	0.421275	21 55
17	14 56 34.15	45.32	15 10 36.5	2 17.7	0.421551	21 56
18	14 55 49.16	44.99	15 8 20.1	2 16.4	0.421875	21 57
19	14 55 4.52	44.64	15 6 5.1	2 15.0	0.422245	21 58
20	14 54 20.29	44.23	15 3 51.7	2 13.4	0.422661	21 59
21	14 53 36.49	—43.80	—15 1 40.2	+2 11.5	0.423124	22 1
22	14 52 53.15	43.34	14 59 30.6	2 9.6	0.423633	22 2

Opp. in AR. Mai 8 GröÙe = 12.1

(79) EURYNOME 1900.

12 ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
April 21	15 21 ^m 28.16		—16° 12' 56".1		0.290536	16 ^m 13
22	15 20 40.30	—47.86	16 8 17.7	+4 38.4	0.289400	16 11
23	15 19 51.54	48.76	16 3 35.8	4 41.9	0.288321	16 9
24	15 19 1.90	49.64	15 58 50.2	4 45.6	0.287300	16 6
25	15 18 11.44	50.46	15 54 1.4	4 48.8	0.286337	16 4
26	15 17 20.22	—51.22	—15 49 9.6	+4 51.8	0.285433	16 3
27	15 16 28.30	51.92	15 44 15.0	4 54.6	0.284591	16 1
28	15 15 35.72	52.58	15 39 17.7	4 57.3	0.283811	15 59
29	15 14 42.54	53.18	15 34 18.1	4 59.6	0.283093	15 57
30	15 13 48.82	53.72	15 29 16.4	5 1.7	0.282438	15 56
Mai 1	15 12 54.61	—54.21	—15 24 12.9	+5 3.5	0.281846	15 55
2	15 11 59.97	54.64	15 19 7.7	5 5.2	0.281318	15 53
3	15 11 4.98	54.99	15 14 1.2	5 6.5	0.280855	15 52
4	15 10 9.68	55.30	15 8 53.6	5 7.6	0.280457	15 52
5	15 9 14.13	55.55	15 3 45.3	5 8.3	0.280124	15 51
6	15 8 18.41	—55.72	—14 58 36.4	+5 8.9	0.279857	15 50
7	15 7 22.55	55.86	14 53 27.2	5 9.2	0.279656	15 50
8	15 6 26.63	55.92	14 48 18.0	5 9.2	0.279520	15 49
9	15 5 30.68	55.95	14 43 9.1	5 8.9	0.279450	15 49
10	15 4 34.78	55.90	14 38 0.8	5 8.3	0.279446	15 49
11	15 3 38.98	—55.80	—14 32 53.3	+5 7.5	0.279508	15 49
12	15 2 43.32	55.66	14 27 46.9	5 6.4	0.279634	15 50
13	15 1 47.88	55.44	14 22 41.8	5 5.1	0.279825	15 50
14	15 0 52.70	55.18	14 17 38.4	5 3.4	0.280082	15 51
15	14 59 57.85	54.85	14 12 37.0	5 1.4	0.280403	15 51
16	14 59 3.36	—54.49	—14 7 37.7	+4 59.3	0.280787	15 52
17	14 58 9.29	54.07	14 2 40.9	4 56.8	0.281235	15 53
18	14 57 15.71	53.58	14 2 46.9	4 54.0	0.281746	15 54
19	14 56 22.65	53.06	13 57 55.9	4 51.0	0.282320	15 56
20	14 55 30.16	52.49	13 48 8.2	4 47.7	0.282955	15 57
21	14 54 38.30	—51.86	—13 43 24.1	+4 44.1	0.283651	15 58
22	14 53 47.12	51.18	13 38 43.9	4 40.2	0.284408	16 0
23	14 52 56.67	50.45	13 34 7.7	4 36.2	0.285225	16 2
24	14 52 6.99	49.68	13 29 35.9	4 31.8	0.286101	16 4
25	14 51 18.12	48.87	13 25 8.6	4 27.3	0.287035	16 6
26	14 50 30.14	—47.98	—13 20 46.2	+4 22.4	0.288026	16 8
27	14 49 43.06	47.08	13 16 29.0	4 17.2	0.289073	16 10

Opp. in AR. Mai 9 GröÙe = 11.5

V. Neugebauer.

(II) PARTHENOPE 1900.

12 ^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Mai	2	16 ^h 10 ^m 14.89		-13° 36' 57.9		0.158535	11 ^m 58 ^s
	3	16 9 30.00	-44.89	13 34 4.9	+2 53.0	0.156835	11 55
	4	16 8 43.84	46.16	13 31 12.2	2 52.7	0.155200	11 52
	5	16 7 56.46	47.38	13 28 20.1	2 52.1	0.153632	11 50
	6	16 7 7.93	48.53	13 25 28.6	2 51.5	0.152133	11 47
	7	16 6 18.30	-49.63	-13 22 38.0	+2 50.6	0.150703	11 45
	8	16 5 27.62	50.68	13 19 48.5	2 49.5	0.149344	11 43
	9	16 4 35.95	51.67	13 17 0.3	2 48.2	0.148058	11 41
	10	16 3 43.37	52.58	13 14 13.7	2 46.6	0.146844	11 39
	11	16 2 49.93	53.44	13 11 28.8	2 44.9	0.145705	11 37
	12	16 1 55.69	-54.24	-13 8 45.8	+2 43.0	0.144640	11 35
	13	16 1 0.72	54.97	13 6 4.9	2 40.9	0.143652	11 34
	14	16 0 5.08	55.64	13 3 26.5	2 38.4	0.142741	11 32
	15	15 59 8.85	56.23	13 0 50.6	2 35.9	0.141908	11 31
	16	15 58 12.10	56.75	12 58 17.6	2 33.0	0.141153	11 30
	17	15 57 14.89	-57.21	-12 55 47.5	+2 30.1	0.140477	11 29
	18	15 56 17.30	57.59	12 53 20.7	2 26.8	0.139881	11 28
	19	15 55 19.40	57.90	12 50 57.4	2 23.3	0.139366	11 27
	20	15 54 21.25	58.15	12 48 37.8	2 19.6	0.138931	11 26
	♃ 21	15 53 22.93	58.32	12 46 22.1	2 15.7	0.138577	11 26
	22	15 52 24.52	-58.41	-12 44 10.6	+2 11.5	0.138305	11 25
23	15 51 26.10	58.42	12 42 3.6	2 7.0	0.138114	11 25	
24	15 50 27.75	58.35	12 40 1.1	2 2.5	0.138004	11 25	
25	15 49 29.55	58.20	12 38 3.5	1 57.6	0.137976	11 25	
26	15 48 31.57	57.98	12 36 11.0	1 52.5	0.138030	11 25	
27	15 47 33.89	-57.68	-12 34 23.8	+1 47.2	0.138164	11 25	
28	15 46 36.60	57.29	12 32 42.1	1 41.7	0.138379	11 25	
29	15 45 39.77	56.83	12 31 6.1	1 36.0	0.138674	11 26	
30	15 44 43.48	56.29	12 29 35.9	1 30.2	0.139048	11 26	
31	15 43 47.80	55.68	12 28 11.9	1 24.0	0.139501	11 27	
Juni	1	15 42 52.81	-54.99	-12 26 54.1	+1 17.8	0.140031	11 28
	2	15 41 58.58	54.23	12 25 42.7	1 11.4	0.140637	11 29
	3	15 41 5.18	53.40	12 24 37.9	1 4.8	0.141319	11 30
	4	15 40 12.67	52.51	12 23 39.8	0 58.1	0.142075	11 31
	5	15 39 21.11	51.56	12 22 48.6	0 51.2	0.142904	11 33
	6	15 38 30.57	-50.54	-12 22 4.4	+0 44.2	0.143804	11 34
	7	15 37 41.10	49.47	12 21 27.2	0 37.2	0.144775	11 36

Opp. in AR. Mai 21 GröÙe = 9.1

(149) MEDUSA 1900.

12 ^h Mittl. Zeit		AR.	Dif.	Decl.	Dif.	Log. Δ	Aberr.-Zt.	
Mai	11	16 41 ^m 29.65		-20 37' 5.5		0.128317	11 10 ^m	
	12	16 40 35.15	-54.50	20 34 59.2	+2 6.3	0.126813	11 8	
	13	16 39 39.33	55.82	20 32 50.1	2 9.1	0.125381	11 5	
	14	16 38 42.23	57.10	20 30 38.3	2 11.8	0.124023	11 3	
	15	16 37 43.95	58.28	20 28 23.9	2 14.4	0.122739	11 1	
	16	16 36 44.55	-59.40	-20 26 7.1	+2 16.8	0.121531	10 59	
	17	16 35 44.07	60.48	20 23 47.8	2 19.3	0.120399	10 58	
	18	16 34 42.60	61.47	20 21 26.1	2 21.7	0.119347	10 56	
	19	16 33 40.23	62.37	20 19 2.2	2 23.9	0.118375	10 55	
	20	16 32 37.03	63.20	20 16 36.2	2 26.0	0.117485	10 53	
	21	16 31 33.06	-63.97	-20 14 8.3	+2 27.9	0.116677	10 52	
	22	16 30 28.40	64.66	20 11 38.5	2 29.8	0.115952	10 51	
	23	16 29 23.15	65.25	20 9 7.1	2 31.4	0.115311	10 50	
	24	16 28 17.41	65.74	20 6 34.3	2 32.8	0.114755	10 50	
	25	16 27 11.24	66.17	20 4 0.1	2 34.2	0.114286	10 49	
	26	16 26 4.74	-66.50	-20 1 24.7	+2 35.4	0.113904	10 48	
	27	16 24 58.01	66.73	19 58 48.5	2 36.2	0.113609	10 48	
	28	16 23 51.14	66.87	19 56 11.6	2 36.9	0.113402	10 47	
	29	16 22 44.23	66.91	19 53 34.2	2 37.4	0.113281	10 47	
	30	16 21 37.38	66.85	19 50 56.4	2 37.8	0.113248	10 47	
	31	16 20 30.67	-66.71	-19 48 18.6	+2 37.8	0.113303	10 47	
	Juni	1	16 19 24.19	66.48	19 45 40.9	2 37.7	0.113445	10 47
		2	16 18 18.03	66.16	19 43 3.5	2 37.4	0.113673	10 48
		3	16 17 12.29	65.74	19 40 26.8	2 36.7	0.113988	10 48
		4	16 16 7.05	65.24	19 37 50.9	2 35.9	0.114389	10 49
5		16 15 2.38	-64.67	-19 35 16.1	+2 34.8	0.114874	10 50	
6		16 13 58.38	64.00	19 32 42.6	2 33.5	0.115442	10 50	
7		16 12 55.14	63.24	19 30 10.6	2 32.0	0.116094	10 51	
8		16 11 52.72	62.42	19 27 40.5	2 30.1	0.116828	10 52	
9		16 10 51.18	61.54	19 25 12.4	2 28.1	0.117642	10 54	
10		16 9 50.61	-60.57	-19 22 46.6	+2 25.8	0.118536	10 55	
11		16 8 51.09	59.52	19 20 23.4	2 23.2	0.119508	10 57	
12		16 7 52.67	58.42	19 18 3.0	2 20.4	0.120558	10 58	
13		16 6 55.41	57.26	19 15 45.5	2 17.5	0.121682	11 0	
14		16 5 59.38	56.03	19 13 31.2	2 14.3	0.122880	11 2	
15		16 5 4.64	-54.74	-19 11 20.3	+2 10.9	0.124152	11 4	
16		16 4 11.25	53.39	19 9 13.0	2 7.3	0.125494	11 6	

Opp. in AR. Mai 29 Gröfse = 13.4

P. Neugebauer.

(122) GERDA 1900.

12 ^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.	
Mai	14	16 ^h 55 ^m 44.95		−20° 26′ 10.6		0.333203	17 ^m 54 ^s	
	15	16 55 4.18	−40.77	20 24 39.2	+I 31.4	0.332255	17 52	
	16	16 54 22.59	41.59	20 23 6.6	I 32.6	0.331358	17 50	
	17	16 53 40.23	42.36	20 21 33.0	I 33.6	0.330511	17 48	
	18	16 52 57.13	43.10	20 19 58.4	I 34.6	0.329716	17 46	
	19	16 52 13.33	−43.80	−20 18 22.8	+I 35.6	0.328973	17 44	
	20	16 51 28.88	44.45	20 16 46.4	I 36.4	0.328283	17 42	
	21	16 50 43.80	45.08	20 15 9.2	I 37.2	0.327647	17 41	
	22	16 49 58.14	45.66	20 13 31.2	I 38.0	0.327065	17 39	
	23	16 49 11.96	46.18	20 11 52.6	I 38.6	0.326538	17 38	
	24	16 48 25.30	−46.66	+I 39.2		0.326067	17 37	
	25	16 47 38.21	47.09	−20 10 13.4	I 39.8	0.325653	17 36	
	26	16 46 50.74	47.47	20 8 33.6	I 40.2	0.325295	17 35	
	27	16 46 2.96	47.78	20 6 53.4	I 40.5	0.324994	17 34	
	28	16 45 14.90	48.06	20 5 12.9	I 40.7	0.324750	17 33	
	29	16 44 26.62	−48.28	+I 40.9		0.324564	17 33	
	30	16 43 38.18	48.44	−20 1 51.3	I 41.0	0.324436	17 33	
	31	16 42 49.62	48.56	20 0 10.3	I 41.0	0.324366	17 33	
	Juni	1	16 42 1.01	48.61	19 58 29.3	I 40.9	0.324354	17 33
		♁ 2	16 41 12.39	48.62	19 56 48.4	I 40.6	0.324354	17 33
		3	16 40 23.82	−48.57	+I 40.3		0.324400	17 33
		4	16 39 35.34	48.48	−19 53 27.5	I 39.9	0.324504	17 33
		5	16 38 47.02	48.32	19 51 47.6	I 39.4	0.324666	17 33
		6	16 37 58.90	48.12	19 50 8.2	I 39.4	0.324885	17 34
		7	16 37 11.03	48.12	19 48 29.4	I 38.8	0.325161	17 34
		8	16 36 23.45	47.87	19 46 51.4	I 38.0	0.325495	17 35
		9	16 35 36.22	−47.58	+I 37.2		0.325885	17 36
		10	16 34 49.38	47.23	−19 45 14.2	I 36.3	0.325885	17 36
		11	16 34 2.98	46.84	19 43 37.9	I 36.3	0.326332	17 37
12		16 33 17.05	46.40	19 42 2.7	I 35.2	0.326834	17 38	
13		16 32 31.64	46.40	19 40 28.7	I 34.0	0.327391	17 39	
14		16 31 46.80	45.93	19 38 56.0	I 32.7	0.328003	17 41	
15		16 31 2.56	−45.41	+I 31.3		0.328668	17 43	
16	16 30 18.96	44.84	−19 37 24.7	I 29.9	0.328668	17 43		
17	16 29 36.05	44.24	19 35 54.8	I 28.3	0.329387	17 45		
18	16 28 53.88	44.24	19 35 54.8	I 28.3	0.330160	17 47		
19	16 28 12.48	43.60	19 34 26.5	I 26.6	0.330985	17 49		
		42.91	19 32 59.9	I 24.7	0.331862	17 51		
		−42.17	+I 22.7		0.332790	17 53		
		41.40	−19 30 12.5	I 20.0	0.333768	17 55		
			19 28 51.8					

Opp. in AR. Juni 2 Gröfse = 11.3

P. Neugebauer.

(65) CYBELE 1900.

12 ^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Mai	20	17 19 ^h 54.76		—18° 4' 37.4		0.327321	17 ^m 39 ^s
	21	17 19 16.65	—38.11	18 3 21.9	+1 15.5	0.326304	17 36
	22	17 18 37.71	38.94	18 2 7.2	1 14.7	0.325337	17 34
	23	17 17 57.95	39.76	18 0 53.3	1 13.9	0.324421	17 32
	24	17 17 17.44	40.51	17 59 40.3	1 13.0	0.323556	17 30
	25	17 16 36.22	—41.22	—17 58 28.3	+1 12.0	0.322743	17 28
	26	17 15 54.32	41.90	17 57 17.2	1 11.1	0.321983	17 26
	27	17 15 11.75	42.57	17 56 7.1	1 10.1	0.321278	17 24
	28	17 14 28.60	43.15	17 54 58.1	1 9.0	0.320627	17 23
	29	17 13 44.93	43.67	17 53 50.3	1 7.8	0.320031	17 21
	30	17 13 0.80	—44.13	—17 52 43.6	+1 6.7	0.319491	17 20
Juni	31	17 12 16.29	44.51	17 51 38.2	1 5.4	0.319007	17 19
	1	17 11 31.44	44.85	17 50 34.2	1 4.0	0.318581	17 18
	2	17 10 46.26	45.18	17 49 31.5	1 2.7	0.318211	17 17
	3	17 10 0.80	45.46	17 48 30.2	1 1.3	0.317899	17 16
	4	17 9 15.07	—45.73	—17 47 30.4	+0 59.8	0.317643	17 16
	5	17 8 29.14	45.93	17 46 32.2	0 58.2	0.317445	17 16
	6	17 7 43.07	46.07	17 45 35.6	0 56.6	0.317304	17 16
	7	17 6 56.92	46.15	17 44 40.6	0 55.0	0.317220	17 15
	8	17 6 10.75	46.17	17 43 47.3	0 53.3	0.317194	17 15
	9	17 5 24.60	—46.15	—17 42 55.9	+0 51.4	0.317227	17 15
	10	17 4 38.52	46.08	17 42 6.3	0 49.6	0.317317	17 15
	11	17 3 52.55	45.97	17 41 18.6	0 47.7	0.317464	17 16
	12	17 3 6.75	45.80	17 40 32.9	0 45.7	0.317668	17 16
	13	17 2 21.15	45.60	17 39 49.2	0 43.7	0.317930	17 16
	14	17 1 35.79	—45.36	—17 39 7.6	+0 41.6	0.318248	17 17
15	17 0 50.74	45.05	17 38 28.2	0 39.4	0.318622	17 18	
16	17 0 6.02	44.72	17 37 51.0	0 37.2	0.319052	17 19	
17	16 59 21.70	44.32	17 37 16.1	0 34.9	0.319538	17 20	
18	16 58 37.81	43.89	17 36 43.5	0 32.6	0.320079	17 21	
19	16 57 54.40	—43.41	—17 36 13.4	+0 30.1	0.320675	17 23	
20	16 57 11.52	42.88	17 35 45.8	0 27.6	0.321326	17 24	
21	16 56 29.20	42.32	17 35 20.7	0 25.1	0.322031	17 26	
22	16 55 47.49	41.71	17 34 58.2	0 22.5	0.322789	17 28	
23	16 55 6.44	41.05	17 34 38.3	0 19.9	0.323599	17 30	
24	16 54 26.10	—40.34	—17 34 21.1	+0 17.2	0.324461	17 32	
25	16 53 46.50	39.60	17 34 6.7	0 14.4	0.325373	17 34	

Opp. in AR. Juni 8 GröÙe = 10.4

P. Neugebauer.

(247) EUKRATE 1900.

12 ^h Mittl. Zeit		AR.	Dif.	Decl.	Dif.	Log. Δ	Aberr.-Zt.
Mai	25	17 ^h 37 ^m 12.55		-57° 26' 29.3		0.389606	20 ^m 23 ^a
	26	17 35 54.76	-77.79	57 31 23.9	-4 54.6	0.388645	20 20
	27	17 34 35.31	79.45	57 36 3.8	4 39.9	0.387721	20 17
	28	17 33 14.28	81.03	57 40 28.7	4 24.9	0.386836	20 15
	29	17 31 51.75	82.53	57 44 38.2	4 9.5	0.385990	20 12
	30	17 30 27.81	-83.94	-57 48 32.0	-3 53.8	0.385183	20 10
	31	17 29 2.54	85.27	57 52 9.7	3 37.7	0.384417	20 8
Juni	1	17 27 36.04	86.50	57 55 31.0	3 21.3	0.383690	20 6
	2	17 26 8.41	87.63	57 58 35.7	3 4.7	0.383005	20 4
	3	17 24 39.75	88.66	58 1 23.5	2 47.8	0.382360	20 2
	4	17 23 10.16	-89.59	-58 3 54.2	-2 30.7	0.381757	20 1
	5	17 21 39.74	90.42	58 6 7.6	2 13.4	0.381196	19 59
	6	17 20 8.60	91.14	58 8 3.5	1 55.9	0.380676	19 58
	7	17 18 36.84	91.76	58 9 41.8	1 38.3	0.380199	19 56
	8	17 17 4.58	92.26	58 11 2.4	1 20.6	0.379764	19 55
	9	17 15 31.92	-92.66	-58 12 5.2	-1 2.8	0.379371	19 54
♃	10	17 13 58.97	92.95	58 12 50.0	0 44.8	0.379021	19 53
	11	17 12 25.85	93.12	58 13 17.0	0 27.0	0.378713	19 52
	12	17 10 52.65	93.20	58 13 26.0	-0 9.0	0.378449	19 51
	13	17 9 19.50	93.15	58 13 17.1	+0 8.9	0.378227	19 51
	14	17 7 46.50	-93.00	-58 12 50.3	+0 26.8	0.378049	19 50
	15	17 6 13.76	92.74	58 12 5.7	0 44.6	0.377913	19 50
	16	17 4 41.39	92.37	58 11 3.4	1 2.3	0.377820	19 50
	17	17 3 9.49	91.90	58 9 43.4	1 20.0	0.377770	19 50
	18	17 1 38.19	91.30	58 8 6.0	1 37.4	0.377762	19 50
	19	17 0 7.57	-90.62	-58 6 11.1	+1 54.9	0.377798	19 50
	20	16 58 37.76	89.81	58 3 59.2	2 11.9	0.377876	19 50
	21	16 57 8.85	88.91	58 1 30.3	2 28.9	0.377997	19 50
	22	16 55 40.96	87.89	57 58 44.7	2 45.6	0.378160	19 51
	23	16 54 14.18	86.78	57 55 42.7	3 2.0	0.378365	19 51
	24	16 52 48.62	-85.56	-57 52 24.6	+3 18.1	0.378612	19 52
	25	16 51 24.37	84.25	57 48 50.7	3 33.9	0.378901	19 53
	26	16 50 1.53	82.84	57 45 1.4	3 49.3	0.379231	19 54
	27	16 48 40.19	81.34	57 40 56.9	4 4.5	0.379602	19 55
	28	16 47 20.43	79.76	57 36 37.8	4 19.1	0.380013	19 56
	29	16 46 2.34	-78.09	-57 32 4.5	+4 33.3	0.380464	19 57
	30	16 44 45.98	76.36	57 27 17.3	4 47.2	0.380954	19 58

Opp. in AR. Juni 10 GröÙe = 12.1

W. Luther.

(6) HEBE 1900.

12 ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Juni 9	18 ^h 42 ^m 14.77		—5° 9' 22.4		0.179673	12 ^m 34 ^a
10	18 41 29.40	—45.37	5 10 33.2	—1 10.8	0.177687	12 31
11	18 40 42.79	46.61	5 11 55.8	1 22.6	0.175756	12 28
12	18 39 54.98	47.81	5 13 30.4	1 34.6	0.173882	12 25
13	18 39 6.01	48.97	5 15 17.0	1 46.6	0.172065	12 22
14	18 38 15.93	—50.08	—5 17 15.9	—1 58.9	0.170308	12 19
15	18 37 24.78	51.15	5 19 27.0	2 11.1	0.168613	12 16
16	18 36 32.61	52.17	5 21 50.4	2 23.4	0.166980	12 13
17	18 35 39.47	53.14	5 24 26.3	2 35.9	0.165410	12 10
18	18 34 45.41	54.06	5 27 14.6	2 48.3	0.163906	12 8
19	18 33 50.49	—54.92	—5 30 15.5	—3 0.9	0.162468	12 5
20	18 32 54.76	55.73	5 33 29.0	3 13.5	0.161098	12 3
21	18 31 58.29	56.47	5 36 55.0	3 26.0	0.159798	12 1
22	18 31 1.14	57.15	5 40 33.6	3 38.6	0.158569	11 59
23	18 30 3.39	57.75	5 44 24.8	3 51.2	0.157411	11 57
24	18 29 5.09	—58.30	—5 48 28.5	—4 3.7	0.156326	11 55
25	18 28 6.31	58.78	5 52 44.7	4 16.2	0.155314	11 54
26	18 27 7.13	59.18	5 57 13.3	4 28.6	0.154377	11 52
♂ 27	18 26 7.63	59.50	6 1 54.1	4 40.8	0.153515	11 51
28	18 25 7.88	59.75	6 6 47.0	4 52.9	0.152729	11 49
29	18 24 7.95	—59.93	—6 11 51.9	—5 4.9	0.152019	11 48
30	18 23 7.92	60.03	6 17 8.7	5 16.8	0.151386	11 47
Juli 1	18 22 7.87	60.05	6 22 37.1	5 28.4	0.150830	11 46
2	18 21 7.87	60.00	6 28 17.1	5 40.0	0.150351	11 45
3	18 20 8.00	59.87	6 34 8.3	5 51.2	0.149949	11 45
4	18 19 8.33	—59.67	—6 40 10.6	—6 2.3	0.149625	11 44
5	18 18 8.94	59.39	6 46 23.7	6 13.1	0.149377	11 44
6	18 17 9.90	59.04	6 52 47.4	6 23.7	0.149207	11 44
7	18 16 11.27	58.63	6 59 21.4	6 34.0	0.149113	11 43
8	18 15 13.14	58.13	7 6 5.6	6 44.2	0.149095	11 43
9	18 14 15.56	—57.58	—7 12 59.5	—6 53.9	0.149153	11 43
10	18 13 18.62	56.94	7 20 3.0	7 3.5	0.149286	11 44
11	18 12 22.36	56.26	7 27 15.8	7 12.8	0.149494	11 44
12	18 11 26.86	55.50	7 34 37.5	7 21.7	0.149776	11 45
13	18 10 32.18	54.68	7 42 8.0	7 30.5	0.150132	11 45
14	18 9 38.39	—53.79	—7 49 46.8	—7 38.8	0.150560	11 46
15	18 8 45.54	52.85	7 57 33.8	7 47.0	0.151060	11 47

Opp. in AR. Juni 27

Größe = 8.5

R. Luther.

(288) GLAUKE 1900.

12 ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Juni 18	19 17 ^h 49.76		-19 41 51.4		0.193120	12 ^m 58 ^s
19	19 17 1.88	-47.88	19 44 44.0	-2 52.6	0.192468	12 57
20	19 16 12.99	48.89	19 47 39.3	2 55.3	0.191882	12 56
21	19 15 23.13	49.86	19 50 37.3	2 58.0	0.191364	12 55
22	19 14 32.37	50.76	19 53 37.6	3 0.3	0.190914	12 54
23	19 13 40.77	-51.60	-19 56 40.1	-3 2.5	0.190534	12 54
24	19 12 48.39	52.38	19 59 44.6	3 4.5	0.190224	12 53
25	19 11 55.29	53.10	20 2 50.9	3 6.3	0.189986	12 53
26	19 11 1.55	53.74	20 5 58.8	3 7.9	0.189819	12 53
27	19 10 7.23	54.32	20 9 8.1	3 9.3	0.189725	12 52
28	19 9 12.41	-54.82	-20 12 18.6	-3 10.5	0.189704	12 52
29	19 8 17.15	55.26	20 15 30.1	3 11.5	0.189756	12 52
30	19 7 21.53	55.62	20 18 42.3	3 12.2	0.189882	12 53
Juli 1	19 6 25.62	55.91	20 21 55.2	3 12.9	0.190082	12 53
2	19 5 29.50	56.12	20 25 8.5	3 13.3	0.190356	12 53
3	19 4 33.23	-56.27	-20 28 22.0	-3 13.5	0.190704	12 54
4	19 3 36.88	56.35	20 31 35.6	3 13.6	0.191125	12 55
5	19 2 40.53	56.35	20 34 49.0	3 13.4	0.191620	12 56
♁ 6	19 1 44.25	56.28	20 38 2.2	3 13.2	0.192189	12 57
7	19 0 48.11	56.14	20 41 15.0	3 12.8	0.192831	12 58
8	18 59 52.18	-55.93	-20 44 27.1	-3 12.1	0.193545	12 59
9	18 58 56.52	55.66	20 47 38.5	3 11.4	0.194332	13 0
10	18 58 1.19	55.33	20 50 49.1	3 10.6	0.195191	13 2
11	18 57 6.27	54.92	20 53 58.6	3 9.5	0.196120	13 4
12	18 56 11.81	54.46	20 57 7.0	3 8.4	0.197120	13 6
13	18 55 17.89	-53.92	-21 0 14.2	-3 7.2	0.198188	13 8
14	18 54 24.55	53.34	21 3 20.1	3 5.9	0.199325	13 10
15	18 53 31.86	52.69	21 6 24.5	3 4.4	0.200530	13 12
16	18 52 39.88	51.98	21 9 27.4	3 2.9	0.201803	13 14
17	18 51 48.67	51.21	21 12 28.6	3 1.2	0.203142	13 17
18	18 50 58.29	-50.38	-21 15 28.1	-2 59.5	0.204546	13 19
19	18 50 8.79	49.50	21 18 25.7	2 57.6	0.206014	13 22
20	18 49 20.23	48.56	21 21 21.5	2 55.8	0.207545	13 25
21	18 48 32.66	47.57	21 24 15.3	2 53.8	0.209138	13 28
22	18 47 46.13	46.53	21 27 7.0	2 51.7	0.210792	13 31
23	18 47 0.72	-45.41	-21 29 56.7	-2 49.7	0.212505	13 34
24	18 46 16.45	44.27	21 32 44.1	2 47.4	0.214277	13 37

Opp. in AR. Juli 6 GröÙe = 12.1

R. Luther.

(190) ISMENE 1900.

12 ^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.	
Juli	13	20 ^h 45 ^m 41.55		—II 44 33.4		0.550014	29 ^m 29 ^a	
	14	20 45 8.87	—32.68	II 46 43.3	—2 9.9	0.549343	29 26	
	15	20 44 35.77	33.10	II 48 56.3	2 13.0	0.548704	29 24	
	16	20 44 2.26	33.51	II 51 12.4	2 16.1	0.548098	29 21	
	17	20 43 28.37	33.89	II 53 31.5	2 19.1	0.547526	29 18	
	18	20 42 54.13	—34.24	—II 55 53.5	—2 22.0	0.546988	29 16	
	19	20 42 19.55	34.58	II 58 18.4	2 24.9	0.546484	29 14	
	20	20 41 44.65	34.90	12 0 46.0	2 27.6	0.546015	29 12	
	21	20 41 9.47	35.18	12 3 16.2	2 30.2	0.545581	29 10	
	22	20 40 34.03	35.44	12 5 48.9	2 32.7	0.545183	29 9	
	23	20 39 58.36	—35.67	—12 8 24.0	—2 35.1	0.544820	29 7	
	24	20 39 22.48	35.88	12 11 1.5	2 37.5	0.544494	29 6	
	25	20 38 46.42	36.06	12 13 41.3	2 39.8	0.544204	29 5	
	26	20 38 10.21	36.21	12 16 22.9	2 41.6	0.543950	29 4	
	27	20 37 33.88	36.33	12 19 6.3	2 43.4	0.543734	29 3	
	28	20 36 57.45	—36.43	—12 21 51.5	—2 45.2	0.543554	29 2	
	♂ 29	20 36 20.95	36.50	12 24 38.5	2 47.0	0.543411	29 2	
	30	20 35 44.41	36.54	12 27 27.3	2 48.8	0.543305	29 1	
	31	20 35 7.87	36.54	12 30 17.6	2 50.3	0.543235	29 1	
	Aug.	1	20 34 31.35	36.52	12 33 9.3	2 51.7	0.543203	29 1
		2	20 33 54.87	—36.48	—12 36 2.2	—2 52.9	0.543208	29 1
		3	20 33 18.47	36.40	12 38 56.3	2 54.1	0.543250	29 1
		4	20 32 42.17	36.30	12 41 51.4	2 55.1	0.543328	29 1
5		20 32 5.99	36.18	12 44 47.4	2 56.0	0.543444	29 2	
6		20 31 29.97	36.02	12 47 44.3	2 56.9	0.543596	29 2	
7		20 30 54.13	—35.84	—12 50 41.9	—2 57.6	0.543784	29 3	
8		20 30 18.51	35.62	12 53 40.0	2 58.1	0.544009	29 4	
9		20 29 43.12	35.39	12 56 38.6	2 58.6	0.544270	29 5	
10		20 29 7.99	35.13	12 59 37.6	2 59.0	0.544566	29 6	
11		20 28 33.15	34.84	13 2 36.8	2 59.2	0.544898	29 8	
12		20 27 58.61	—34.54	—13 5 36.3	—2 59.5	0.545265	29 9	
13		20 27 24.40	34.21	13 8 35.9	2 59.6	0.545667	29 11	
14		20 26 50.55	33.85	13 11 35.4	2 59.5	0.546105	29 12	
15		20 26 17.07	33.48	13 14 34.8	2 59.4	0.546577	29 14	
16	20 25 44.00	33.07	13 17 34.0	2 59.2	0.547083	29 16		
17	20 25 11.36	—32.64	—13 20 32.8	—2 58.8	0.547623	29 19		
18	20 24 39.18	32.18	13 23 31.2	2 58.4	0.548195	29 21		

Opp. in AR. Juli 29 Gröfse = 12.7

(118) PEITHO 1900.

12 ^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.	
Juli	II	21 ^h 1 ^m 49.25		—29° 8' 24.4		0.238015	14 ^m 22 ^s	
	12	21 1 0.27	—48.98	29 14 25.7	—6 1.3	0.236626	14 19	
	13	21 0 9.97	50.30	29 20 25.2	5 59.5	0.235294	14 17	
	14	20 59 18.39	51.58	29 26 22.6	5 57.4	0.234020	14 14	
	15	20 58 25.58	52.81	29 32 17.5	5 54.9	0.232806	14 12	
	16	20 57 31.59	—53.99	—29 38 9.4	—5 51.9	0.231653	14 10	
	17	20 56 36.46	55.13	29 43 57.8	5 48.4	0.230562	14 8	
	18	20 55 40.23	56.23	29 49 42.3	5 44.5	0.229534	14 6	
	19	20 54 42.96	57.27	29 55 22.5	5 40.2	0.228570	14 4	
	20	20 53 44.72	58.24	30 0 57.9	5 35.4	0.227671	14 2	
	21	20 52 45.57	—59.15	—30 6 28.1	—5 30.2	0.226838	14 0	
	22	20 51 45.56	60.01	30 11 52.7	5 24.6	0.226072	13 59	
	23	20 50 44.74	60.82	30 17 11.1	5 18.4	0.225373	13 58	
	24	20 49 43.19	61.55	30 22 23.1	5 12.0	0.224742	13 57	
	25	20 48 41.02	62.17	30 27 28.1	5 5.0	0.224180	13 56	
	26	20 47 38.26	—62.76	—30 32 25.9	—4 57.8	0.223688	13 55	
	27	20 46 35.01	63.25	30 37 15.9	4 50.0	0.223265	13 54	
	28	20 45 31.34	63.67	30 41 57.9	4 42.0	0.222912	13 54	
	29	20 44 27.31	64.03	30 46 31.5	4 33.6	0.222628	13 53	
	30	20 43 23.01	64.30	30 50 56.3	4 24.8	0.222415	13 53	
	♂ 31	20 42 18.52	—64.49	—30 55 12.1	—4 15.8	0.222272	13 52	
	Aug.	I	20 41 13.91	64.61	30 59 18.5	4 6.4	0.222199	13 52
		2	20 40 9.27	64.64	31 3 15.4	3 56.9	0.222195	13 52
		3	20 39 4.68	64.59	31 7 2.4	3 47.0	0.222261	13 52
		4	20 38 0.21	64.47	31 10 39.4	3 37.0	0.222396	13 52
		5	20 36 55.94	—64.27	—31 14 6.1	—3 26.7	0.222600	13 52
		6	20 35 51.95	63.99	31 17 22.4	3 16.3	0.222872	13 53
		7	20 34 48.32	63.63	31 20 28.2	3 5.8	0.223213	13 53
		8	20 33 45.12	63.20	31 23 23.3	2 55.1	0.223621	13 54
		9	20 32 42.42	62.70	31 26 7.5	2 44.2	0.224095	13 55
10		20 31 40.29	—62.13	—31 28 40.8	—2 33.3	0.224635	13 56	
11		20 30 38.80	61.49	31 31 3.1	2 22.3	0.225239	13 57	
12		20 29 38.02	60.78	31 33 14.4	2 11.3	0.225908	13 58	
13		20 28 38.02	60.00	31 35 14.6	2 0.2	0.226640	14 0	
14		20 27 38.87	59.15	31 37 3.8	1 49.2	0.227434	14 1	
15		20 26 40.65	—58.22	—31 38 41.8	—1 38.0	0.228290	14 3	
16		20 25 43.41	57.24	31 40 8.6	1 26.8	0.229206	14 5	

Opp. in AR. Juli 31 GröÙe = 11.3

(226) WERINGIA 1900.

12 ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Aug. 22	23 ^h 28 ^m 57.99		—15° 36' 24.2		0.132457	11 ^m 16 ^s
23	23 28 23.31	—34.68	15 49 36.1	—13 11.9	0.132089	11 16
24	23 27 47.53	35.78	16 2 46.7	13 10.6	0.131795	11 15
25	23 27 10.72	36.81	16 15 55.1	13 8.4	0.131581	11 15
26	23 26 32.97	37.75	16 29 0.3	13 5.2	0.131448	11 15
27	23 25 54.36	—38.61	—16 42 1.2	—13 0.9	0.131398	11 15
28	23 25 14.93	39.43	16 54 57.1	12 55.9	0.131431	11 15
29	23 24 34.69	40.24	17 7 47.4	12 50.3	0.131545	11 15
30	23 23 53.75	40.94	17 20 31.2	12 43.8	0.131741	11 15
31	23 23 12.20	41.55	17 33 7.8	12 36.6	0.132020	11 15
Sept. 1	23 22 30.09	—42.11	—17 45 36.6	—12 28.8	0.132381	11 16
2	23 21 47.46	42.63	17 57 56.8	12 20.2	0.132824	11 17
3	23 21 4.40	43.06	18 10 7.8	12 11.0	0.133350	11 18
4	23 20 21.00	43.40	18 22 8.7	12 0.9	0.133959	11 19
5	23 19 37.33	43.67	18 33 59.1	11 50.4	0.134649	11 20
6	23 18 53.44	—43.89	—18 45 38.0	—11 38.9	0.135420	11 21
7	23 18 9.40	44.04	18 57 5.0	11 27.0	0.136271	11 22
8	23 17 25.26	44.14	19 8 19.2	11 14.2	0.137202	11 23
9	23 16 41.11	44.15	19 19 20.4	11 1.2	0.138211	11 25
♁ 10	23 15 57.03	44.08	19 30 8.3	10 47.9	0.139298	11 27
11	23 15 13.06	—43.97	—19 40 42.2	—10 33.9	0.140462	11 29
12	23 14 29.22	43.84	19 51 1.6	10 19.4	0.141704	11 31
13	23 13 45.63	43.59	20 1 5.9	10 4.3	0.143021	11 33
14	23 13 2.37	43.26	20 10 54.5	9 48.6	0.144412	11 35
15	23 12 19.50	42.87	20 20 27.0	9 32.5	0.145876	11 38
16	23 11 37.06	—42.44	—20 29 43.6	—9 16.6	0.147413	11 40
17	23 10 55.14	41.92	20 38 43.5	8 59.9	0.149020	11 43
18	23 10 13.81	41.33	20 47 25.9	8 42.4	0.150697	11 45
19	23 9 33.12	40.69	20 55 50.9	8 25.0	0.152442	11 48
20	23 8 53.10	40.02	21 3 58.4	8 7.5	0.154251	11 51
21	23 8 13.85	—39.25	—21 11 48.0	—7 49.6	0.156126	11 54
22	23 7 35.45	38.40	21 19 19.6	7 31.6	0.158065	11 57
23	23 6 57.95	37.50	21 26 32.9	7 13.3	0.160067	12 1
24	23 6 21.38	36.57	21 33 27.6	6 54.7	0.162128	12 4
25	23 5 45.81	35.57	21 40 3.6	6 36.0	0.164248	12 8
26	23 5 11.35	—34.46	—21 46 20.9	—6 17.3	0.166425	12 11
27	23 4 38.04	33.31	21 52 19.3	5 58.4	0.168656	12 15

Opp. in AR. Sept. 10 GröÙe = 12.3

H. Kreutz.

(24) THEMIS 1900.

12 ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Aug. 24	23 ^h 46 ^m 46.97		-2° 18' 5.1		0.406453	21 ^m 11 ^s
25	23 46 12.33	-34.64	2 21 49.6	-3 44.5	0.405365	21 8
26	23 45 36.96	35.37	2 25 38.7	3 49.1	0.404324	21 5
27	23 45 0.88	36.08	2 29 32.2	3 53.5	0.403324	21 2
28	23 44 24.11	36.77	2 33 29.8	3 57.6	0.402368	20 59
29	23 43 46.66	-37.45	-2 37 30.9	-4 1.1	0.401457	20 56
30	23 43 8.57	38.09	2 41 35.4	4 4.5	0.400592	20 54
31	23 42 29.88	38.69	2 45 43.7	4 8.3	0.399774	20 52
Sept. 1	23 41 50.64	39.24	2 49 55.3	4 11.6	0.399002	20 50
2	23 41 10.88	39.76	2 54 9.7	4 14.4	0.398277	20 48
3	23 40 30.63	-40.25	-2 58 26.7	-4 17.0	0.397600	20 46
4	23 39 49.94	40.69	3 2 46.3	4 19.6	0.396969	20 44
5	23 39 8.82	41.12	3 7 8.1	4 21.8	0.396388	20 42
6	23 38 27.30	41.52	3 11 32.0	4 23.9	0.395858	20 40
7	23 37 45.41	41.89	3 15 57.7	4 25.7	0.395377	20 39
8	23 37 3.20	-42.21	-3 20 25.0	-4 27.3	0.394946	20 38
9	23 36 20.72	42.48	3 24 53.9	4 28.9	0.394565	20 37
10	23 35 38.01	42.71	3 29 23.4	4 29.5	0.394236	20 36
11	23 34 55.08	42.93	3 33 53.7	4 30.3	0.393958	20 35
12	23 34 11.96	43.12	3 38 24.7	4 31.0	0.393732	20 34
13	23 33 28.70	-43.26	-3 42 56.4	-4 31.7	0.393557	20 34
14	23 32 45.34	43.36	3 47 28.0	4 31.6	0.393434	20 33
♃ 15	23 32 1.93	43.41	3 51 59.5	4 31.5	0.393362	20 33
16	23 31 18.50	43.43	3 56 30.5	4 31.0	0.393343	20 33
17	23 30 35.08	43.42	4 1 0.8	4 30.3	0.393375	20 34
18	23 29 51.73	-43.35	-4 5 30.2	-4 29.4	0.393459	20 34
19	23 29 8.50	43.23	4 9 58.4	4 28.2	0.393595	20 34
20	23 28 25.40	43.10	4 14 25.2	4 26.8	0.393784	20 35
21	23 27 42.48	42.92	4 18 50.2	4 25.0	0.394025	20 35
22	23 26 59.78	42.70	4 23 13.1	4 22.9	0.394318	20 36
23	23 26 17.35	-42.43	-4 27 33.6	-4 20.5	0.394664	20 37
24	23 25 35.27	42.08	4 31 51.7	4 18.1	0.395060	20 38
25	23 24 53.53	41.74	4 36 7.2	4 15.5	0.395507	20 39
26	23 24 12.16	41.37	4 40 19.6	4 12.4	0.396004	20 41
27	23 23 31.21	40.95	4 44 28.7	4 9.1	0.396551	20 43
28	23 22 50.74	-40.47	-4 48 34.3	-4 5.6	0.397147	20 45
29	23 22 10.78	39.96	4 52 36.2	4 1.9	0.397792	20 47

Opp. in AR. Sept. 15

Größe = 11.4

(108) HECUBA 1900.

12 ^h Mittl. Zeit	AR.	Dif.	Decl.	Dif.	Log. Δ	Aberr.-Zt.
Aug. 29	23 ^h 45 ^m 5.31		-1 ^m 51' 18.7		0.411190	21 ^m 25 ^s
30	23 44 26.71	-38.60	1 54 33.0	-3 14.3	0.410412	21 23
31	23 43 47.54	39.17	1 57 50.7	3 17.7	0.409679	21 21
Sept. 1	23 43 7.82	39.72	2 1 11.6	3 20.9	0.408993	21 19
2	23 42 27.58	40.24	2 4 35.5	3 23.9	0.408353	21 17
3	23 41 46.86	-40.72	-2 8 2.1	-3 26.6	0.407760	21 15
4	23 41 5.68	41.18	2 11 31.2	3 29.1	0.407214	21 13
5	23 40 24.07	41.61	2 15 2.6	3 31.4	0.406716	21 12
6	23 39 42.08	41.99	2 18 36.3	3 33.7	0.406267	21 10
7	23 38 59.76	42.32	2 22 11.9	3 35.6	0.405867	21 9
8	23 38 17.16	-42.60	-2 25 49.2	-3 37.3	0.405515	21 8
9	23 37 34.33	42.83	2 29 28.0	3 38.8	0.405213	21 7
10	23 36 51.29	43.04	2 33 8.1	3 40.1	0.404961	21 7
11	23 36 8.06	43.23	2 36 49.3	3 41.2	0.404759	21 6
12	23 35 24.65	43.41	2 40 31.3	3 42.0	0.404606	21 6
13	23 34 41.07	-43.58	-2 44 14.1	-3 42.8	0.404504	21 6
14	23 33 57.39	43.68	2 47 57.3	3 43.2	0.404454	21 5
15	23 33 13.65	43.74	2 51 40.7	3 43.4	0.404454	21 5
16	23 32 29.91	43.74	2 55 23.9	3 43.2	0.404504	21 5
17	23 31 46.20	43.71	2 59 6.9	3 43.0	0.404606	21 6
18	23 31 2.57	-43.63	-3 2 49.3	-3 42.4	0.404760	21 6
19	23 30 19.05	43.52	3 6 31.0	3 41.7	0.404964	21 7
20	23 29 35.69	43.36	3 10 11.7	3 40.7	0.405219	21 8
21	23 28 52.51	43.18	3 13 51.1	3 39.4	0.405525	21 8
22	23 28 9.57	42.94	3 17 29.0	3 37.9	0.405881	21 9
23	23 27 26.89	-42.68	-3 21 5.2	-3 36.2	0.406287	21 11
24	23 26 44.53	42.36	3 24 39.4	3 34.2	0.406744	21 12
25	23 26 2.53	42.00	3 28 11.4	3 32.0	0.407250	21 14
26	23 25 20.91	41.62	3 31 40.9	3 29.5	0.407804	21 15
27	23 24 39.71	41.20	3 35 7.8	3 26.9	0.408407	21 17
28	23 23 58.97	-40.74	-3 38 31.9	-3 24.1	0.409059	21 19
29	23 23 18.73	40.24	3 41 52.9	3 21.0	0.409759	21 21
30	23 22 39.01	39.72	3 45 10.5	3 17.6	0.410506	21 23
Oct. 1	23 21 59.85	39.16	3 48 24.7	3 14.2	0.411298	21 25
2	23 21 21.31	38.54	3 51 35.4	3 10.7	0.412134	21 28
3	23 20 43.43	-37.88	-3 54 42.5	-3 7.1	0.413013	21 30
4	23 20 6.23	37.20	3 57 45.8	3 3.3	0.413935	21 33

Opp. in AR. Sept. 15 GröÙe = 12.2

P. Neugebauer.

(82) ALKMENE 1900.

Γ_2^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Aug. 25	23 ^h 54 ^m 38.81		-3 13 13.8		0.353671	18 ^m 45 ^s
26	23 54 0.75	-38.06	3 17 12.5	-3 58.7	0.352295	18 42
27	23 53 21.77	38.98	3 21 15.8	4 3.3	0.350964	18 38
28	23 52 41.91	39.86	3 25 23.6	4 7.8	0.349680	18 35
29	23 52 1.19	40.72	3 29 35.7	4 12.1	0.348443	18 32
		-41.54		-4 16.0		
30	23 51 19.65	42.33	-3 33 51.7	4 19.7	0.347256	18 29
31	23 50 37.32	43.07	3 38 11.4	4 23.2	0.346118	18 26
Sept. 1	23 49 54.25	43.79	3 42 34.6	4 26.4	0.345030	18 23
2	23 49 10.46	44.47	3 47 1.0	4 29.5	0.343994	18 21
3	23 48 25.99	-45.11	3 51 30.5	-4 32.1	0.343009	18 18
4	23 47 40.88	45.71	-3 56 2.6	4 34.6	0.342078	18 16
5	23 46 55.17	46.27	4 0 37.2	4 36.7	0.341200	18 13
6	23 46 8.90	46.79	4 5 13.9	4 38.7	0.340377	18 11
7	23 45 22.11	47.27	4 9 52.6	4 40.3	0.339608	18 9
8	23 44 34.84	-47.71	4 14 32.9	-4 41.6	0.338895	18 8
9	23 43 47.13	48.11	-4 19 14.5	4 42.8	0.338238	18 6
10	23 42 59.02	48.47	4 23 57.3	4 43.6	0.337637	18 5
11	23 42 10.55	48.78	4 28 40.9	4 44.0	0.337093	18 3
12	23 41 21.77	49.06	4 33 24.9	4 44.4	0.336607	18 2
13	23 40 32.71	-49.28	4 38 9.3	-4 44.2	0.336179	18 1
14	23 39 43.43	49.47	-4 42 53.5	4 43.9	0.335810	18 0
15	23 38 53.96	49.59	4 47 37.4	4 43.3	0.335499	17 59
♃ 16	23 38 4.37	49.68	4 52 20.7	4 42.2	0.335247	17 59
17	23 37 14.69	49.72	4 57 2.9	4 41.0	0.335055	17 58
18	23 36 24.97	-49.70	5 1 43.9	-4 39.3	0.334921	17 58
19	23 35 35.27	49.64	-5 6 23.2	4 37.4	0.334848	17 58
20	23 34 45.63	49.53	5 11 0.6	4 35.2	0.334833	17 58
21	23 33 56.10	49.36	5 15 35.8	4 32.7	0.334879	17 58
22	23 33 6.74	49.14	5 20 8.5	4 29.8	0.334983	17 58
23	23 32 17.60	-48.88	5 24 38.3	-4 26.7	0.335146	17 58
24	23 31 28.72	48.56	-5 29 5.0	4 23.2	0.335369	17 59
25	23 30 40.16	48.20	5 33 28.2	+ 19.6	0.335649	18 0
26	23 29 51.96	47.80	5 37 47.8	4 15.6	0.335988	18 1
27	23 29 4.16	47.33	5 42 3.4	4 11.3	0.336384	18 2
28	23 28 16.83	-46.82	5 46 14.7	-4 6.8	0.336837	18 3
29	23 27 30.01	46.28	-5 50 21.5	4 2.1	0.337346	18 4
30	23 26 43.73		5 54 23.6		0.337911	18 5

Opp. in AR. Sept. 16 GröÙe = 12.0

(241) GERMANIA 1900.

12 ^h Mittl. Zeit	AR.	Dif.	Decl.	Dif.	Log. Δ	Aberr.-Zt.
Sept. 15	0 ^h 9 ^m 5.40		+10° 18' 22.2		0.253123	14 ^m 53
16	0 8 21.26	-44.14	10 14 26.2	-3 56.0	0.252538	14 52
17	0 7 36.71	44.55	10 10 22.1	4 4.1	0.252016	14 51
18	0 6 51.81	44.90	10 6 10.1	4 12.0	0.251559	14 50
19	0 6 6.61	45.20	10 1 50.6	4 19.5	0.251166	14 49
		-45.45		-4 26.8		
20	0 5 21.16	45.63	+ 9 57 23.8	4 33.7	0.250840	14 48
21	0 4 35.53	45.76	9 52 50.1	4 40.3	0.250580	14 48
22	0 3 49.77	45.83	9 48 9.8	4 46.6	0.250386	14 47
♂ 23	0 3 3.94	45.84	9 43 23.2	4 52.6	0.250259	14 47
24	0 2 18.10	45.79	9 38 30.6	-4 58.0	0.250200	14 47
		45.69	+ 9 33 32.6	5 3.2	0.250208	14 47
26	0 0 46.62	45.52	9 28 29.4	5 8.0	0.250284	14 47
27	0 0 1.10	45.30	9 23 21.4	5 12.4	0.250428	14 47
28	23 59 15.80	45.02	9 18 9.0	5 16.4	0.250639	14 48
29	23 58 30.78	-44.69	9 12 52.6	-5 20.0	0.250917	14 48
		44.30	+ 9 7 32.6	5 23.2	0.251263	14 49
Oct. 1	23 57 1.79	43.85	9 2 9.4	5 25.9	0.251675	14 50
2	23 56 17.94	43.36	8 56 43.5	5 28.4	0.252154	14 51
3	23 55 34.58	42.81	8 51 15.1	5 30.4	0.252699	14 52
4	23 54 51.77	-42.22	8 45 44.7	-5 31.9	0.253309	14 53
		41.57	+ 8 40 12.8	5 33.2	0.253983	14 55
6	23 53 27.98	40.89	8 34 39.6	5 34.0	0.254722	14 56
7	23 52 47.09	40.15	8 29 5.6	5 34.4	0.255524	14 58
8	23 52 6.94	39.38	8 23 31.2	5 34.4	0.256389	15 0
9	23 51 27.56	-38.56	8 17 56.8	-5 34.2	0.257316	15 2
		37.70	+ 8 12 22.6	5 33.4	0.258304	15 4
10	23 50 49.00	36.81	8 6 49.2	5 32.4	0.259352	15 6
11	23 50 11.30	35.86	8 1 16.8	5 30.9	0.260459	15 8
12	23 49 34.49	34.89	7 55 45.9	5 29.0	0.261625	15 10
13	23 48 58.63	-33.87	7 50 16.9	-5 26.9	0.262849	15 13
14	23 48 23.74	32.82	+ 7 44 50.0	5 24.3	0.264129	15 16
15	23 47 49.87	31.74	7 39 25.7	5 21.3	0.265465	15 19
16	23 47 17.05	30.61	7 34 4.4	5 18.0	0.266856	15 22
17	23 46 45.31	29.46	7 28 46.4	5 14.4	0.268299	15 25
18	23 46 14.70	-28.27	7 23 32.0	-5 10.4	0.269795	15 28
19	23 45 45.24	27.06	+ 7 18 21.6	5 6.1	0.271342	15 31
20	23 45 16.97		7 13 15.5		0.272938	15 35
21	23 44 49.91					

Opp. in AR. Sept. 23 GröÙe = 10.7

W. Luther.

(270) ANAHITA 1900.

12 ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Sept. 19	0 ^h 56 ^m 54.76		+10° 54' 44.3"		9.973252	7 ^m 49 ^s
20	0 56 8.08	-46.68	10 49 58.1	-4 46.2	9.972193	7 48
21	0 55 20.14	47.94	10 44 59.0	4 59.1	9.971228	7 47
22	0 54 31.02	49.12	10 39 47.5	5 11.5	9.970360	7 46
23	0 53 40.82	50.20	10 34 24.1	5 23.4	9.969591	7 45
24	0 52 49.62	-51.20	+10 28 49.3	-5 34.8	9.968923	7 45
25	0 51 57.52	52.10	10 23 3.6	5 45.7	9.968357	7 44
26	0 51 4.62	52.90	10 17 7.6	5 56.0	9.967894	7 43
27	0 50 11.03	53.59	10 11 1.9	6 5.7	9.967536	7 43
28	0 49 16.83	54.20	10 4 47.0	6 14.9	9.967284	7 43
29	0 48 22.16	-54.67	+ 9 58 23.5	-6 23.5	9.967138	7 43
30	0 47 27.10	55.06	9 51 52.1	6 31.4	9.967100	7 43
Oct. 1	0 46 31.75	55.35	9 45 13.5	6 38.6	9.967170	7 43
2	0 45 36.23	55.52	9 38 28.4	6 45.1	9.967348	7 43
3	0 44 40.65	55.58	9 31 37.4	6 51.0	9.967636	7 43
4	0 43 45.11	-55.54	+ 9 24 41.2	-6 56.2	9.968032	7 44
p 5	0 42 49.71	55.40	9 17 40.6	7 0.6	9.968536	7 44
6	0 41 54.53	55.18	9 10 36.3	7 4.3	9.969148	7 45
7	0 40 59.68	54.85	9 3 29.0	7 7.3	9.969867	7 45
8	0 40 5.24	54.44	8 56 19.3	7 9.7	9.970693	7 46
9	0 39 11.32	-53.92	+ 8 49 8.0	-7 11.3	9.971626	7 47
10	0 38 18.00	53.32	8 41 55.8	7 12.2	9.972665	7 49
11	0 37 25.37	52.63	8 34 43.4	7 12.4	9.973809	7 50
12	0 36 33.53	51.84	8 27 31.4	7 12.0	9.975056	7 51
13	0 35 42.58	50.95	8 20 20.6	7 10.8	9.976406	7 52
14	0 34 52.59	-49.99	+ 8 13 11.8	-7 8.8	9.977857	7 54
15	0 34 3.64	48.95	8 6 5.6	7 6.2	9.979409	7 56
16	0 33 15.83	47.81	7 59 2.7	7 2.9	9.981059	7 58
17	0 32 29.23	46.60	7 52 3.8	6 58.9	9.982806	8 0
18	0 31 43.92	45.31	7 45 9.7	6 54.1	9.984648	8 2
19	0 30 59.96	-43.96	+ 7 38 20.9	-6 48.8	9.986583	8 4
20	0 30 17.46	42.50	7 31 38.2	6 42.7	9.988609	8 6
21	0 29 36.47	40.99	7 25 2.1	6 36.1	9.990725	8 8
22	0 28 57.06	39.41	7 18 33.3	6 28.8	9.992927	8 11
23	0 28 19.28	37.78	7 12 12.2	6 21.1	9.995213	8 13
24	0 27 43.19	-36.09	+ 7 5 59.6	-6 12.6	9.997581	8 16
25	0 27 8.86	34.33	6 59 55.9	6 3.7	0.000028	8 19

Opp. in AR. Oct. 5 Größe = 10.2

V. Neugebauer.

(178) BELISANA 1900.

I_2^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Sept. 28	$I^h 49^m 10^s.54$		$+9^\circ 32' 25.2$		0.191724	$12^m 55^s$
29	$I 48 24.72$	-45.82	9 28 34.0	-3 51.2	0.190520	12 53
30	$I 47 37.77$	46.95	9 24 37.4	3 56.6	0.189382	12 51
Oct. 1	$I 46 49.74$	48.03	9 20 35.1	4 2.3	0.188311	12 49
2	$I 46 0.69$	49.05	9 16 27.8	4 7.3	0.187309	12 47
3	$I 45 10.69$	-50.00	$+9 12 15.8$	-4 12.0	0.186377	12 46
4	$I 44 19.80$	50.89	9 7 59.2	4 16.6	0.185516	12 44
5	$I 43 28.06$	51.74	9 3 38.4	4 20.8	0.184727	12 43
6	$I 42 35.53$	52.53	8 59 13.8	4 24.6	0.184011	12 41
7	$I 41 42.28$	53.25	8 54 45.6	4 28.2	0.183369	12 40
8	$I 40 48.38$	-53.90	$+8 50 14.1$	-4 31.5	0.182802	12 39
9	$I 39 53.88$	54.50	8 45 39.7	4 34.4	0.182310	12 39
10	$I 38 58.84$	55.04	8 41 2.7	4 37.0	0.181895	12 38
11	$I 38 3.34$	55.50	8 36 23.4	4 39.3	0.181557	12 37
12	$I 37 7.45$	55.89	8 31 42.4	4 41.0	0.181298	12 37
13	$I 36 11.21$	-56.24	$+8 27 0.0$	-4 42.4	0.181117	12 36
14	$I 35 14.70$	56.51	8 22 16.4	4 43.6	0.181015	12 36
15	$I 34 17.99$	56.71	8 17 32.1	4 44.3	0.180993	12 36
16	$I 33 21.16$	56.83	8 12 47.4	4 44.7	0.181050	12 36
17	$I 32 24.28$	56.88	8 8 2.7	4 44.7	0.181188	12 37
18	$I 31 27.42$	-56.86	$+8 3 18.6$	-4 44.1	0.181405	12 37
19	$I 30 30.66$	56.76	7 58 35.6	4 43.0	0.181703	12 38
20	$I 29 34.06$	56.60	7 53 53.8	4 41.8	0.182080	12 38
21	$I 28 37.71$	56.35	7 49 13.5	4 40.3	0.182538	12 39
22	$I 27 41.68$	56.03	7 44 35.4	4 38.1	0.183075	12 40
23	$I 26 46.04$	-55.64	$+7 40 0.0$	-4 35.4	0.183691	12 41
24	$I 25 50.86$	55.18	7 35 27.7	4 32.3	0.184385	12 42
25	$I 24 56.23$	54.63	7 30 58.9	4 28.8	0.185157	12 44
26	$I 24 2.20$	54.03	7 26 33.9	4 25.0	0.186005	12 45
27	$I 23 8.83$	53.37	7 22 12.8	4 21.1	0.186929	12 47
28	$I 22 16.20$	-52.63	$+7 17 56.1$	-4 16.7	0.187929	12 48
29	$I 21 24.40$	51.80	7 13 44.4	4 11.7	0.189001	12 50
30	$I 20 33.46$	50.94	7 9 38.0	4 6.4	0.190146	12 52
31	$I 19 43.42$	50.04	7 5 37.1	4 0.9	0.191362	12 54
Nov. 1	$I 18 54.36$	49.06	7 1 42.2	3 54.9	0.192648	12 57
2	$I 18 6.34$	-48.02	$+6 57 53.5$	-3 48.7	0.194002	12 59
3	$I 17 19.40$	46.94	6 54 11.5	3 42.0	0.195423	13 2

Opp. in AR. Oct. 18 GröÙe = 12.1

(17) THETIS 1900.

12 ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Sept. 30	2 ^h 5 ^m 42.75		+3° 36' 15.6		0.217842	13 ^m 43 ^a
Oct. 1	2 4 58.62	-44.13	3 30 16.2	-5 59.4	0.216926	13 41
2	2 4 13.40	45.22	3 24 15.4	6 0.8	0.216074	13 40
3	2 3 27.14	46.26	3 18 13.4	6 2.0	0.215288	13 38
4	2 2 39.88	47.26	3 12 10.5	6 2.9	0.214568	13 37
5	2 1 51.69	-48.19	+3 6 7.3	-6 3.2	0.213915	13 36
6	2 1 2.61	49.08	3 0 4.2	6 3.1	0.213331	13 35
7	2 0 12.69	49.92	2 54 1.5	6 2.7	0.212816	13 34
8	1 59 21.99	50.70	2 47 59.6	6 1.9	0.212371	13 33
9	1 58 30.57	51.42	2 41 58.9	6 0.7	0.211997	13 32
10	1 57 38.47	-52.10	+2 35 59.8	-5 59.1	0.211694	13 31
11	1 56 45.75	52.72	2 30 2.6	5 57.2	0.211464	13 31
12	1 55 52.49	53.26	2 24 7.8	5 54.8	0.211307	13 31
13	1 54 58.74	53.75	2 18 15.8	5 52.0	0.211223	13 31
14	1 54 4.56	54.18	2 12 26.9	5 48.9	0.211212	13 31
15	1 53 9.99	-54.57	+2 6 41.7	-5 45.2	0.211275	13 31
16	1 52 15.11	54.88	2 1 0.6	5 41.1	0.211412	13 31
17	1 51 20.01	55.10	1 55 23.9	5 36.7	0.211624	13 31
18	1 50 24.75	55.26	1 49 52.1	5 31.8	0.211912	13 32
19	1 49 29.40	55.35	1 44 25.7	5 26.4	0.212277	13 33
20	1 48 34.04	-55.36	+1 39 4.9	-5 20.8	0.212720	13 33
21	1 47 38.72	55.32	1 33 50.1	5 14.8	0.213238	13 34
♂ 22	1 46 43.50	55.22	1 28 41.7	5 8.4	0.213829	13 35
23	1 45 48.45	55.05	1 23 40.2	5 1.5	0.214493	13 37
24	1 44 53.64	54.81	1 18 45.9	4 54.3	0.215230	13 38
25	1 43 59.13	-54.51	+1 13 59.1	-4 46.8	0.216041	13 40
26	1 43 5.00	54.13	1 9 20.1	4 39.0	0.216924	13 41
27	1 42 11.32	53.68	1 4 49.4	4 30.7	0.217879	13 43
28	1 41 18.16	53.16	1 0 27.2	4 22.2	0.218905	13 45
29	1 40 25.56	52.60	0 56 13.6	4 13.6	0.220000	13 47
30	1 39 33.59	-51.97	+0 52 9.1	-4 4.5	0.221164	13 49
31	1 38 42.33	51.26	0 48 14.0	3 55.1	0.222396	13 52
Nov. 1	1 37 51.80	50.53	0 44 28.4	3 45.6	0.223694	13 54
2	1 37 2.06	49.74	0 40 52.4	3 36.0	0.225057	13 57
3	1 36 13.17	48.89	0 37 26.3	3 26.1	0.226483	14 0
4	1 35 25.21	-47.96	+0 34 10.4	-3 15.9	0.227971	14 3
5	1 34 38.26	46.95	0 31 4.9	3 5.5	0.229521	14 5

Opp. in AR. Oct. 22 GröÙe = 10.4

(176) IDUNNA 1900.

12 ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Oct. 24	3 ^h 18 ^m 27. ^s 37		+4° 31' 53.9		0.230185	14 ^m 7 ^s
25	3 17 50.24	-37.13	4 19 8.5	-12 45.4	0.229537	14 6
26	3 17 12.27	37.97	4 6 25.8	12 42.7	0.228958	14 4
27	3 16 33.51	38.76	3 53 46.3	12 39.5	0.228450	14 3
28	3 15 54.03	39.48	3 41 10.6	12 35.7	0.228013	14 3
29	3 15 13.87	-40.16	+3 28 39.4	-12 31.2	0.227647	14 2
30	3 14 33.10	40.77	3 16 13.0	12 26.4	0.227353	14 1
31	3 13 51.77	41.33	3 3 52.2	12 20.8	0.227132	14 1
Nov. 1	3 13 9.94	41.83	2 51 37.4	12 14.8	0.226984	14 1
2	3 12 27.66	42.28	2 39 29.3	12 8.1	0.226909	14 1
3	3 11 44.99	-42.67	+2 27 28.4	-12 0.9	0.226906	14 1
4	3 11 1.98	43.01	2 15 35.3	11 53.1	0.226977	14 1
5	3 10 18.69	43.29	2 3 50.4	11 44.9	0.227121	14 1
6	3 9 35.20	43.49	1 52 14.2	11 36.2	0.227337	14 1
7	3 8 51.55	43.65	1 40 47.3	11 26.9	0.227627	14 2
8	3 8 7.79	-43.76	+1 29 30.2	-11 17.1	0.227989	14 3
9	3 7 23.97	43.82	1 18 23.3	11 6.9	0.228423	14 3
10	3 6 40.17	43.80	1 7 27.1	10 56.2	0.228929	14 4
♂ 11	3 5 56.44	43.73	0 56 42.1	10 45.0	0.229507	14 5
12	3 5 12.82	43.62	0 46 8.7	10 33.4	0.230156	14 7
13	3 4 29.38	-43.44	+0 35 47.5	-10 21.2	0.230875	14 8
14	3 3 46.18	43.20	0 25 38.7	10 8.8	0.231664	14 10
15	3 3 3.29	42.89	0 15 42.9	9 55.8	0.232522	14 11
16	3 2 20.75	42.54	+0 6 0.5	9 42.4	0.233449	14 13
17	3 1 38.63	42.12	-0 3 28.3	9 28.8	0.234443	14 15
18	3 0 56.97	-41.66	-0 12 43.1	-9 14.8	0.235503	14 17
19	3 0 15.85	41.12	0 21 43.7	9 0.6	0.236629	14 19
20	2 59 35.31	40.54	0 30 29.9	8 46.2	0.237819	14 22
21	2 58 55.41	39.90	0 39 1.2	8 31.3	0.239073	14 24
22	2 58 16.19	39.22	0 47 17.3	8 16.1	0.240388	14 27
23	2 57 37.72	-38.47	-0 55 18.0	-8 0.7	0.241764	14 30
24	2 57 0.05	37.67	1 3 2.9	7 44.9	0.243199	14 33
25	2 56 23.20	36.85	1 10 32.0	7 29.1	0.244692	14 36
26	2 55 47.23	35.97	1 17 45.2	7 13.2	0.246242	14 39
27	2 55 12.18	35.05	1 24 42.6	6 57.4	0.247846	14 42
28	2 54 38.11	-34.07	-1 31 24.1	-6 41.5	0.249500	14 45
29	2 54 5.05	33.06	1 37 49.6	6 25.5	0.251203	14 49

Opp. in AR. Nov. 11 GröÙe = 10.2

P. Neugebauer.

(76) FREIA 1900.

12 ^h Mittl. Zeit	AR.	Dif.	Decl.	Dif.	Log. Δ	Aberr.-Zt.
Oct. 26	3 ^h 25 ^m 42. ^s 79		+17° 56' 48. ^{''} 7		0.299992	16 ^m 35 ^s
27	3 25 3.59	-39.20	17 53 39.1	-3 9.6	0.298796	16 32
28	3 24 23.53	40.06	17 50 25.8	3 13.3	0.297655	16 29
29	3 23 42.65	40.88	17 47 9.0	3 16.8	0.296570	16 27
30	3 23 0.99	41.66	17 43 48.9	3 20.1	0.295543	16 24
31	3 22 18.61	-42.38		-3 23.2		
Nov. 1	3 21 35.56	43.05	+17 40 25.7	3 26.1	0.294574	16 22
2	3 20 51.88	43.68	17 36 59.6	3 28.9	0.293663	16 20
3	3 20 7.64	44.24	17 33 30.7	3 31.5	0.292812	16 18
4	3 19 22.87	44.77	17 29 59.2	3 33.9	0.292021	16 16
5	3 18 37.63	-45.24	17 26 25.3	-3 36.1	0.291291	16 15
6	3 17 51.98	45.65	+17 22 49.2	3 38.2	0.290623	16 13
7	3 17 5.96	46.02	17 19 11.0	3 39.9	0.290017	16 12
8	3 16 19.63	46.33	17 15 31.1	3 41.5	0.289473	16 10
9	3 15 33.03	46.60	17 11 49.6	3 42.9	0.288993	16 9
10	3 14 46.21	-46.82	17 8 6.7	-3 44.1	0.288577	16 8
11	3 13 59.24	46.97	+17 4 22.6	3 45.1	0.288224	16 8
12	3 13 12.17	47.07	17 0 37.5	3 45.8	0.287935	16 7
♁ 13	3 12 25.06	47.11	16 56 51.7	3 46.2	0.287711	16 7
14	3 11 37.96	47.10	16 53 5.5	3 46.3	0.287552	16 6
15	3 10 50.94	-47.02	16 49 19.2	-3 46.3	0.287459	16 6
16	3 10 4.04	46.90	+16 45 32.9	3 46.1	0.287431	16 6
17	3 9 17.33	46.71	16 41 46.8	3 45.5	0.287468	16 6
18	3 8 30.87	46.46	16 38 1.3	3 44.6	0.287570	16 6
19	3 7 44.71	46.16	16 34 16.7	3 43.6	0.287738	16 7
20	3 6 58.91	-45.80	16 30 33.1	-3 42.2	0.287970	16 7
21	3 6 13.54	45.37	+16 26 50.9	3 40.5	0.288267	16 8
22	3 5 28.66	44.88	16 23 10.4	3 38.6	0.288628	16 9
23	3 4 44.30	44.36	16 19 31.8	3 36.5	0.289052	16 10
24	3 4 0.52	43.78	16 15 55.3	3 34.1	0.289540	16 11
25	3 3 17.39	-43.13	16 12 21.2	-3 31.4	0.290090	16 12
26	3 2 34.97	42.42	+16 8 49.8	3 28.4	0.290702	16 13
27	3 1 53.29	41.68	16 5 21.4	3 25.3	0.291376	16 15
28	3 1 12.39	40.90	16 1 56.1	3 22.0	0.292109	16 16
29	3 0 32.32	40.07	15 58 34.1	3 18.3	0.292901	16 18
30	2 59 53.14	-39.18	15 55 15.8	-3 14.4	0.293752	16 20
Dec. 1	2 59 14.90	38.24	+15 52 1.4	3 10.3	0.294660	16 22
			15 48 51.1		0.295625	16 24

Opp. in AR. Nov. 13 GröÙe = 11.2

(170) MARIA 1900.

12^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aber.-Zt.
Oct. 30	3 ^h 49 ^m 59.93		+41° 56' 7.8		0.188968	12 ^m 50 ^s
31	3 49 47.1	-55.22	41 56 1.2	-0 6.6	0.187354	12 47
Nov. 1	3 48 7.92	56.79	41 55 37.0	0 24.2	0.185796	12 45
2	3 47 9.62	58.30	41 54 54.9	0 42.1	0.184295	12 42
3	3 46 9.91	59.71	41 53 54.7	1 0.2	0.182852	12 39
		-61.06		-1 18.5		
4	3 45 8.85	62.33	+41 52 36.2	1 36.9	0.181468	12 37
5	3 44 6.52	63.51	41 50 59.3	1 55.5	0.180145	12 35
6	3 43 3.01	64.60	41 49 3.8	2 14.2	0.178884	12 33
7	3 41 58.41	65.60	41 46 49.6	2 33.1	0.177687	12 31
8	3 40 52.81	-66.52	41 44 16.5	-2 52.1	0.176555	12 29
9	3 39 46.29	67.34	+41 41 24.4	3 11.1	0.175489	12 27
10	3 38 38.95	68.04	41 38 13.3	3 30.2	0.174491	12 25
11	3 37 30.91	68.66	41 34 43.1	3 49.2	0.173561	12 23
12	3 36 22.25	69.17	41 30 53.9	4 8.3	0.172700	12 22
13	3 35 13.08	-69.56	41 26 45.6	-4 27.3	0.171910	12 21
14	3 34 3.52	69.86	+41 22 18.3	4 46.1	0.171193	12 19
15	3 32 53.66	70.04	41 17 32.2	5 4.9	0.170549	12 18
16	3 31 43.62	70.11	41 12 27.3	5 23.3	0.169978	12 17
♂ 17	3 30 33.51	70.06	41 7 4.0	5 41.5	0.169481	12 16
18	3 29 23.45	-69.90	41 1 22.5	-5 59.5	0.169060	12 16
19	3 28 13.55	69.64	+40 55 23.0	6 17.0	0.168715	12 15
20	3 27 3.91	69.24	40 49 6.0	6 34.3	0.168446	12 15
21	3 25 54.67	68.74	40 42 31.7	6 51.1	0.168253	12 14
22	3 24 45.93	68.13	40 35 40.6	7 7.5	0.168138	12 14
23	3 23 37.80	-67.41	40 28 33.1	-7 23.4	0.168100	12 14
24	3 22 30.39	66.59	+40 21 9.7	7 38.7	0.168138	12 14
25	3 21 23.80	65.65	40 13 31.0	7 53.5	0.168254	12 14
26	3 20 18.15	64.64	40 5 37.5	8 7.7	0.168448	12 15
27	3 19 13.51	63.51	39 57 29.8	8 21.3	0.168718	12 15
28	3 18 10.00	-62.30	39 49 8.5	-8 34.2	0.169063	12 16
29	3 17 7.70	61.00	+39 40 34.3	8 46.5	0.169483	12 16
30	3 16 6.70	59.61	39 31 47.8	8 58.1	0.169980	12 17
Dec. 1	3 15 7.09	58.15	39 22 49.7	9 8.9	0.170551	12 18
2	3 14 8.94	56.63	39 13 40.8	9 19.1	0.171195	12 19
3	3 13 12.31	-55.03	39 4 21.7	-9 28.6	0.171912	12 21
4	3 12 17.28	53.37	+38 54 53.1	9 37.4	0.172701	12 23
5	3 11 23.91		38 45 15.7		0.173561	12 24

Opp. in AR. Nov. 17 GröÙe = 11.5

P. Neugebauer.

(121) HERMIONE 1900.

12 ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
Nov. 16	4 ^h 54 ^m 33. ^a 01		+21° 3' 59.5"		0.360527	19 ^m 3 ^a
17	4 53 47.91	-45.10	21 4 32.8	+33.3	0.359858	19 1
18	4 53 2.03	45.88	21 5 5.2	32.4	0.359241	18 59
19	4 52 15.41	46.62	21 5 36.6	31.4	0.358677	18 58
20	4 51 28.10	47.31	21 6 7.0	30.4	0.358167	18 57
21	4 50 40.16	-47.94	+21 6 36.4	+29.4	0.357711	18 56
22	4 49 51.64	48.52	21 7 4.9	28.5	0.357311	18 54
23	4 49 2.58	49.06	21 7 32.4	27.5	0.356966	18 53
24	4 48 13.03	49.55	21 7 59.0	26.6	0.356677	18 53
25	4 47 23.05	49.98	21 8 24.7	25.7	0.356445	18 52
26	4 46 32.71	-50.34	+21 8 49.4	+24.7	0.356270	18 52
27	4 45 42.05	50.66	21 9 13.2	23.8	0.356152	18 51
28	4 44 51.11	50.94	21 9 36.2	23.0	0.356092	18 51
29	4 43 59.96	51.15	21 9 58.4	22.2	0.356090	18 51
30	4 43 8.65	51.31	21 10 19.8	21.4	0.356146	18 51
Dec. 1	4 42 17.24	-51.41	+21 10 40.6	+20.8	0.356260	18 52
2	4 41 25.78	51.46	21 11 0.7	20.1	0.356432	18 52
3	4 40 34.32	51.46	21 11 20.3	19.6	0.356662	18 53
4	4 39 42.91	51.41	21 11 39.4	19.1	0.356949	18 53
5	4 38 51.61	51.30	21 11 58.0	18.6	0.357294	18 54
6	4 38 0.46	-51.15	+21 12 16.1	+18.1	0.357696	18 55
7	4 37 9.52	50.94	21 12 33.8	17.7	0.358155	18 57
8	4 36 18.83	50.69	21 12 51.3	17.5	0.358671	18 58
9	4 35 28.46	50.37	21 13 8.6	17.3	0.359244	19 0
10	4 34 38.45	50.01	21 13 25.7	17.1	0.359873	19 1
11	4 33 48.84	-49.61	+21 13 42.8	+17.1	0.360558	19 3
12	4 32 59.69	49.15	21 13 59.9	17.1	0.361299	19 5
13	4 32 11.05	48.64	21 14 17.1	17.2	0.362095	19 7
14	4 31 22.98	48.07	21 14 34.5	17.4	0.362945	19 9
15	4 30 35.50	47.48	21 14 52.2	17.7	0.363849	19 11
16	4 29 48.68	-46.82	+21 15 10.3	+18.1	0.364805	19 14
17	4 29 2.56	46.12	21 15 28.8	18.5	0.365814	19 17
18	4 28 17.18	45.38	21 15 47.8	19.0	0.366875	19 19
19	4 27 32.58	44.60	21 16 7.4	19.6	0.367986	19 22
20	4 26 48.82	43.76	21 16 27.8	20.4	0.369147	19 26
21	4 26 5.94	-42.88	+21 16 49.0	+21.2	0.370357	19 30
22	4 25 23.98	41.96	21 17 11.0	22.0	0.371616	19 33

Opp. in AR. Dec. 3. Gröfse. = 11.0

V. Neugebauer.

(56) MELETE 1900 — 1901.

12 ^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
1900 Dec.	1	7 ^h 8 ^m 52.67		+II 35 17.8		0.366303	19 ^m 19 ^s
	2	7 8 16.97	-35.70	II 33 41.0	-I 36.8	0.364839	19 15
	3	7 7 40.02	36.95	II 32 9.1	I 31.9	0.363413	19 11
	4	7 7 1.84	38.18	II 30 42.1	I 27.0	0.362025	19 7
	5	7 6 22.45	39.39	II 29 20.0	I 22.1	0.360678	19 4
	6	7 5 41.88	-40.57		-I 16.9		
	7	7 5 0.16	41.72	+II 28 3.1	I 11.9	0.359372	19 0
	8	7 4 17.31	42.85	II 26 51.2	I 6.7	0.358108	18 57
	9	7 3 33.37	43.94	II 25 44.5	I 1.6	0.356888	18 54
	10	7 2 48.37	45.00	II 24 42.9	0 56.3	0.355712	18 51
	11	7 2 2.33	-46.04	II 23 46.6	0 51.0	0.354582	18 48
	12	7 1 15.29	47.04	+II 22 55.6	0 45.7	0.353499	18 45
	13	7 0 27.30	47.99	II 22 9.9	0 40.3	0.352464	18 42
	14	6 59 38.39	48.91	II 21 29.6	0 35.0	0.351479	18 40
	15	6 58 48.60	49.79	II 20 54.6	0 29.7	0.350544	18 37
	16	6 57 57.97	-50.63	II 20 24.9	0 24.2	0.349661	18 35
	17	6 57 6.55	51.42	+II 20 0.7	0 18.8	0.348830	18 33
	18	6 56 14.38	52.17	II 19 41.9	0 13.4	0.348052	18 31
	19	6 55 21.52	52.86	II 19 28.5	0 8.0	0.347329	18 29
	20	6 54 28.01	53.51	II 19 20.5	0 2.6	0.346661	18 28
	21	6 53 33.91	-54.10	II 19 17.9	+0 2.8	0.346049	18 26
	22	6 52 39.26	54.65	+II 19 20.7	0 8.1	0.345494	18 25
	23	6 51 44.12	55.14	II 19 28.8	0 13.5	0.344996	18 23
	24	6 50 48.54	55.58	II 19 42.3	0 18.8	0.344557	18 22
	25	6 49 52.59	55.95	II 20 1.1	0 24.1	0.344176	18 21
	26	6 48 56.31	-56.28	II 20 25.2	+0 29.3	0.343854	18 21
	27	6 47 59.77	56.54	+II 20 54.5	0 34.4	0.343592	18 20
	28	6 47 3.02	56.75	II 21 28.9	0 39.6	0.343390	18 19
	29	6 46 6.11	56.91	II 22 8.5	0 44.7	0.343247	18 19
	30	6 45 9.11	57.00	II 22 53.2	0 49.6	0.343165	18 19
♁ 31	6 44 12.06	-57.05	II 23 42.8	+0 54.6	0.343143	18 19	
1901 Jan.	1	6 43 15.02	57.04	+II 24 37.4	0 59.5	0.343182	18 19
	2	6 42 18.05	56.97	II 25 36.9	I 4.3	0.343281	18 19
	3	6 41 21.20	56.85	II 26 41.2	I 9.1	0.343440	18 19
	4	6 40 24.51	56.69	II 27 50.3	I 13.7	0.343660	18 20
	5	6 39 28.05	-56.46	II 29 4.0	+I 18.4	0.343939	18 21
	6	6 38 31.87	56.18	+II 30 22.4	I 22.9	0.344278	18 22
			II 31 45.3		0.344676	18 23	

Opp. in AR. 1900 Dec. 31 Gröfse = 12.4

R. Luther.

(153) HILDA 1900 — 1901.

12 ^h Mittl. Zeit	AR.	Dif.	Decl.	Dif.	Log. Δ	Aberr.-Zt.
1900 Dec. 13	6 ^h 53 ^m 32.89		+15° 16' 27.7"		0.567147	30 ^m 40 ^a
14	6 52 57.41	-35.48	15 15 58.1	-29.6	0.566508	30 37
15	6 52 21.45	35.96	15 15 30.7	27.4	0.565904	30 34
16	6 51 45.01	36.44	15 15 5.5	25.2	0.565334	30 32
17	6 51 8.13	36.88	15 14 42.5	23.0	0.564798	30 30
18	6 50 30.83	-37.30		-20.9		
19	6 49 53.13	37.70	+15 14 21.6	18.7	0.564297	30 28
20	6 49 15.08	38.05	15 14 2.9	16.5	0.563831	30 26
21	6 48 36.70	38.38	15 13 46.4	14.4	0.563402	30 24
22	6 47 58.02	38.68	15 13 32.0	12.4	0.563009	30 22
23	6 47 19.06	-38.96	15 13 19.6	-10.2	0.562653	30 21
24	6 46 39.86	39.20	+15 13 9.4	8.1	0.562333	30 19
25	6 46 0.46	39.40	15 13 1.3	6.0	0.562051	30 18
26	6 45 20.88	39.58	15 12 55.3	3.9	0.561806	30 17
27	6 44 41.15	39.73	15 12 51.4	-2.0	0.561598	30 16
28	6 44 1.31	-39.84	15 12 49.4	0.0	0.561428	30 15
29	6 43 21.40	39.91	+15 12 49.4	+1.9	0.561296	30 15
30	6 42 41.43	39.97	15 12 51.3	3.9	0.561202	30 14
31	6 42 1.44	39.99	15 12 55.2	5.8	0.561145	30 14
1901 Jan. 1	6 41 21.46	39.98	15 13 1.0	7.7	0.561126	30 14
2	6 40 41.52	-39.94	15 13 8.7	+9.6	0.561144	30 14
3	6 40 1.64	39.88	+15 13 18.3	11.4	0.561201	30 14
4	6 39 21.86	39.78	15 13 29.7	13.2	0.561295	30 15
5	6 38 42.22	39.64	15 13 42.9	15.1	0.561428	30 15
6	6 38 2.73	39.49	15 13 58.0	16.8	0.561598	30 16
7	6 37 23.42	-39.31	15 14 14.8	+18.6	0.561806	30 17
8	6 36 44.33	39.09	+15 14 33.4	20.3	0.562050	30 18
9	6 36 5.49	38.84	15 14 53.7	22.0	0.562331	30 19
10	6 35 26.91	38.58	15 15 15.7	23.8	0.562649	30 20
11	6 34 48.63	38.28	15 15 39.5	25.4	0.563004	30 22
12	6 34 10.69	-37.94	15 16 4.9	+27.0	0.563396	30 24
13	6 33 33.11	37.58	+15 16 31.9	28.6	0.563823	30 25
14	6 32 55.91	37.20	15 17 0.5	30.1	0.564286	30 27
15	6 32 19.13	36.78	15 17 30.6	31.6	0.564785	30 29
16	6 31 42.79	36.34	15 18 2.2	33.2	0.565319	30 32
17	6 31 6.92	-35.87	15 18 35.4	+34.7	0.565889	30 35
18	6 30 31.55	35.37	+15 19 10.1	36.2	0.566493	30 37
			15 19 46.3		0.567130	30 40

Opp. in AR. 1900 Dec. 31

Größe = 13.4

P. Neugebauer.

(433) EROS 1900 — 1901.

I ² ^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
1900	Sept. 1	2 ^h 21 ^m 34.29		+33° 38' 45.6		9.908790	6 ^m 44 ^s
	2	2 22 44.58	+I 10.29	34 0 44.5	+21 58.9	9.903911	6 39
	3	2 23 53.71	I 9.13	34 22 47.9	22 3.4	9.899011	6 35
	4	2 25 1.63	I 7.92	34 44 55.5	22 7.6	9.894091	6 30
	5	2 26 8.28	I 6.65	35 7 7.4	22 11.9	9.889151	6 26
	6	2 27 13.54	+I 5.26		+22 16.2		
	7	2 28 17.37	I 3.83	+35 29 23.6	22 19.7	9.884191	6 22
	8	2 29 19.73	I 2.36	35 51 43.3	22 23.3	9.879213	6 18
	9	2 30 20.54	I 0.81	36 14 6.6	22 26.6	9.874216	6 13
	10	2 31 19.76	0 59.22	36 36 33.2	22 29.9	9.869202	6 9
	11	2 32 17.31	+0 57.55	36 59 3.1	+22 33.5	9.864173	6 5
	12	2 33 13.13	0 55.82	+37 21 36.6	22 36.7	9.859126	6 1
	13	2 34 7.15	0 54.02	37 44 13.3	22 40.0	9.854061	5 56
	14	2 34 59.32	0 52.17	38 6 53.3	22 42.8	9.848981	5 52
	15	2 35 49.54	0 50.22	38 29 36.1	22 45.4	9.843884	5 48
	16	2 36 37.75	+0 48.21	38 52 21.5	+22 47.6	9.838774	5 44
	17	2 37 23.84	0 46.09	+39 15 9.1	22 49.5	9.833649	5 40
	18	2 38 7.74	0 43.90	39 37 58.6	22 50.9	9.828513	5 36
	19	2 38 49.36	0 41.62	40 0 49.5	22 52.3	9.823365	5 32
	20	2 39 28.65	0 39.29	40 23 41.8	22 53.2	9.818207	5 28
	21	2 40 5.49	+0 36.84	40 46 35.0	+22 53.7	9.813039	5 24
	22	2 40 39.85	0 34.36	+41 9 28.7	22 53.7	9.807864	5 20
	23	2 41 11.60	0 31.75	41 32 22.4	22 53.0	9.802680	5 16
	24	2 41 40.67	0 29.07	41 55 15.4	22 51.4	9.797493	5 13
	25	2 42 6.97	0 26.30	42 18 6.8	22 49.5	9.792301	5 9
	26	2 42 30.41	+0 23.44	42 40 56.3	+22 47.1	9.787108	5 5
	27	2 42 50.90	0 20.49	+43 3 43.4	22 44.1	9.781912	5 2
	28	2 43 8.38	0 17.48	43 26 27.5	22 40.5	9.776718	4 58
	29	2 43 22.75	0 14.37	43 49 8.0	22 36.4	9.771524	4 54
	30	2 43 33.97	0 11.22	44 11 44.4	22 31.3	9.766334	4 51
Oct.	1	2 43 41.92	+0 7.95	44 34 15.7	+22 25.5	9.761147	4 48
	2	2 43 46.51	0 4.59	+44 56 41.2	22 18.8	9.755966	4 44
	3	2 43 47.67	+0 1.16	45 19 0.0	22 11.7	9.750792	4 41
	4	2 43 45.32	-0 2.35	45 41 11.7	22 3.4	9.745625	4 38
	5	2 43 39.35	0 5.97	46 3 15.1	21 53.8	9.740468	4 34
	6	2 43 29.65	-0 9.70	46 25 8.9	+21 43.4	9.735323	4 31
	7	2 43 16.12	0 13.53	+46 46 52.3	21 30.9	9.730190	4 28
	8	2 42 58.66	0 17.46	47 8 23.2	21 17.6	9.725072	4 25
	9	2 42 37.17	0 21.49	47 29 40.8	21 4.3	9.719970	4 22
	10	2 42 11.59	0 25.58	47 50 45.1	20 50.6	9.714886	4 19
			48 11 35.7		9.709819	4 16	

Größe

Sept. 1: 11.1

Sept. 14: 10.7

Sept. 27: 10.3

(433) EROS 1900 — 1901. (Fortsetzung.)

12 ^h Mittl. Zeit		AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.	
1900 Oct.	9	2 ^h 42 ^m 37.17 ^s		+47° 50' 45.1"		9.714886	4 ^m 19 ^s	
	10	2 42 11.59	-0 25.58	48 11 35.7	+20 50.6	9.709819	4 16	
	11	2 41 41.83	0 29.76	48 32 9.7	20 34.0	9.704772	4 13	
	12	2 41 7.84	0 33.99	48 52 25.4	20 15.7	9.699747	4 10	
	13	2 40 29.49	0 38.35	49 12 21.7	19 56.3	9.694746	4 7	
	14	2 39 46.73	-0 42.76	+49 31 56.9	+19 35.2	9.689773	4 4	
	15	2 38 59.50	0 47.23	49 51 8.8	19 11.9	9.684827	4 1	
	16	2 38 7.70	0 51.80	50 9 55.5	18 46.7	9.679913	3 58	
	17	2 37 11.34	0 56.36	50 28 16.6	18 21.1	9.675033	3 56	
	18	2 36 10.41	1 0.93	50 46 9.8	17 53.2	9.670188	3 53	
	19	2 35 4.91	-1 5.50	+51 3 32.8	+17 23.0	9.665381	3 51	
	20	2 33 54.87	1 10.04	51 20 23.9	16 51.1	9.660613	3 48	
	21	2 32 40.32	1 14.55	51 36 40.6	16 16.7	9.655887	3 45	
	22	2 31 21.35	1 18.97	51 52 21.1	15 40.5	9.651207	3 43	
	23	2 29 58.03	1 23.32	52 7 24.4	15 3.3	9.646574	3 41	
	24	2 28 30.49	-1 27.54	+52 21 47.6	+14 23.2	9.641989	3 38	
	25	2 26 58.82	1 31.67	52 35 28.3	13 40.7	9.637455	3 36	
	26	2 25 23.18	1 35.64	52 48 25.9	12 57.6	9.632977	3 34	
	27	2 23 43.73	1 39.45	53 0 38.0	12 12.1	9.628556	3 32	
	28	2 22 0.66	1 43.07	53 12 2.9	11 24.9	9.624193	3 30	
	29	2 20 14.21	-1 46.45	+53 22 39.0	+10 36.1	9.619889	3 28	
	♂	30	2 18 24.66	1 49.55	53 32 24.9	9 45.9	9.615646	3 26
		31	2 16 32.25	1 52.41	53 41 18.3	8 53.4	9.611464	3 24
	Nov.	1	2 14 37.32	1 54.93	53 49 17.6	7 59.3	9.607346	3 22
		2	2 12 40.11	1 57.21	53 56 23.0	7 5.4	9.603292	3 20
		3	2 10 40.96	-1 59.15	+54 2 33.2	+6 10.2	9.599306	3 18
		4	2 8 40.17	2 0.79	54 7 46.3	5 13.1	9.595387	3 16
		5	2 6 38.08	2 2.09	54 12 1.4	4 15.1	9.591537	3 14
		6	2 4 35.03	2 3.05	54 15 16.9	3 15.5	9.587758	3 13
7		2 2 31.41	2 3.62	54 17 32.5	2 15.6	9.584052	3 11	
8		2 0 27.59	-2 3.82	+54 18 46.7	+1 14.2	9.580419	3 10	
9		1 58 23.98	2 3.61	54 18 59.5	+0 12.8	9.576860	3 8	
10		1 56 20.87	2 3.11	54 18 10.3	-0 49.2	9.573378	3 7	
11		1 54 18.90	2 1.97	54 16 19.1	1 51.2	9.569974	3 5	
12		1 52 18.25	2 0.65	54 13 25.7	2 53.4	9.566649	3 4	
13		1 50 19.37	-1 58.88	+54 9 30.5	-3 55.2	9.563403	3 2	
14		1 48 22.77	1 56.60	54 4 32.9	4 57.6	9.560237	3 1	
15	1 46 28.82	1 53.95	53 58 33.6	5 59.3	9.557154	3 0		
16	1 44 38.00	1 50.82	53 51 33.7	6 59.9	9.554155	2 59		
17	1 42 50.70	1 47.30	53 43 34.2	7 59.5	9.551238	2 57		

Größe Oct. 10: 9.9 Oct. 23: 9.5 Nov. 5: 9.2

(433) EROS 1900 — 1901. (Fortsetzung.)

12 ^h Mittl. Zeit	AR.	Diff.	Decl.	Diff.	Log. Δ	Aberr.-Zt.
1900 Nov. 16	1 ^h 44 ^m 38 ^s .00		+53° 51' 33.7"		9.554155	2 ^m 59 ^s
17	1 42 50.70	-1 47.30	53 43 34.2	-7 59.5	9.551238	2 57
18	1 41 7.34	1 43.36	53 34 35.2	8 59.0	9.548405	2 56
19	1 39 28.21	1 39.13	53 24 38.4	9 56.8	9.545659	2 55
20	1 37 53.69	1 34.52	53 13 44.4	10 54.0	9.542998	2 54
21	1 36 24.06	-1 29.63	+53 1 55.2	-11 49.2	9.540421	2 53
22	1 34 59.64	1 24.42	52 49 12.3	12 42.9	9.537930	2 52
23	1 33 40.75	1 18.89	52 35 37.7	13 34.6	9.535525	2 51
24	1 32 27.64	1 13.11	52 21 13.4	14 24.3	9.533206	2 50
25	1 31 20.58	1 7.06	52 6 1.8	15 11.6	9.530971	2 49
26	1 30 19.71	-1 0.87	+51 50 4.3	-15 57.5	9.528819	2 49
27	1 29 25.21	0 54.50	51 33 23.4	16 40.9	9.526750	2 48
28	1 28 37.19	0 48.02	51 16 1.1	17 22.3	9.524763	2 47
29	1 27 55.77	0 41.42	50 57 59.4	18 1.7	9.522857	2 46
30	1 27 21.02	0 34.75	50 39 20.6	18 38.8	9.521030	2 46
Dec. 1	1 26 52.96	-0 28.06	+50 20 6.8	-19 13.8	9.519281	2 45
2	1 26 31.66	0 21.30	50 0 19.5	19 47.3	9.517609	2 44
3	1 26 17.11	0 14.55	49 40 0.6	20 18.9	9.516014	2 44
4	1 26 9.30	0 7.81	49 19 12.3	20 48.3	9.514494	2 43
5	1 26 8.24	-0 1.06	48 57 56.1	21 16.2	9.513049	2 43
6	1 26 13.87	+0 5.63	+48 36 13.9	-21 42.2	9.511678	2 42
7	1 26 26.14	0 12.27	48 14 7.2	22 6.7	9.510379	2 42
8	1 26 45.02	0 18.88	47 51 37.5	22 29.7	9.509155	2 41
9	1 27 10.40	0 25.38	47 28 46.0	22 51.5	9.508004	2 41
10	1 27 42.27	0 31.87	47 5 34.2	23 11.8	9.506926	2 40
11	1 28 20.50	+0 38.23	+46 42 3.7	-23 30.5	9.505920	2 40
12	1 29 5.04	0 44.54	46 18 16.6	23 47.1	9.504984	2 39
13	1 29 55.81	0 50.77	45 54 13.9	24 2.7	9.504118	2 39
14	1 30 52.73	0 56.92	45 29 57.2	24 16.7	9.503321	2 39
15	1 31 55.71	1 2.98	45 5 27.7	24 29.5	9.502591	2 38
16	1 33 4.72	+1 9.01	+44 40 46.2	-24 41.5	9.501930	2 38
17	1 34 19.61	1 14.89	44 15 54.3	24 51.9	9.501337	2 38
18	1 35 40.33	1 20.72	43 50 52.5	25 1.8	9.500810	2 38
19	1 37 6.78	1 26.45	43 25 42.2	25 10.3	9.500350	2 38
20	1 38 38.85	1 32.07	43 0 25.6	25 16.6	9.499955	2 38
21	1 40 16.39	+1 37.54	+42 35 2.1	-25 23.5	9.499624	2 38
22	1 41 59.30	1 42.91	42 9 33.3	25 28.8	9.499355	2 37
23	1 43 47.45	1 48.15	41 44 0.0	25 33.3	9.499149	2 37
24	1 45 40.69	1 53.24	41 18 23.2	25 36.8	9.499003	2 37
25	1 47 38.90	1 58.21	40 52 43.8	25 39.4	9.498918	2 37

Größe Nov. 18: 8.9 Dec. 1: 8.7 Dec. 14: 8.5

(433) EROS 1900 — 1901. (Fortsetzung.)

12 ^h Mittl. Zeit	AR.	Dif.	Decl.	Dif.	Log. Δ	Aberr.-Zt.
1900 Dec. 24	1 ^h 45 ^m 40.69		+41° 18' 23.2		9.499003	2 ^m 3 ^s
25	1 47 38.90	+1 58.21	40 52 43.8	-25 39.4	9.498918	2 37
26	1 49 41.97	2 3.07	40 27 2.1	25 41.7	9.498891	2 37
27	1 51 49.74	2 7.77	40 1 18.4	25 43.7	9.498923	2 37
28	1 54 2.09	2 12.35	39 35 34.3	25 44.1	9.499012	2 37
		+2 16.80		-25 44.2		
29	1 56 18.89		+39 9 50.1		9.499156	2 37
		2 21.14		25 44.4		
30	1 58 40.03	2 25.42	38 44 5.7	25 44.5	9.499356	2 38
		2 29.43	38 18 21.2	25 43.9	9.499612	2 38
31	2 1 5.45	2 29.43	37 52 37.3	25 43.1	9.499923	2 38
1901 Jan. 1	2 3 34.88	2 33.33	37 26 54.2	-25 42.6	9.500288	2 38
2	2 6 8.21	+2 37.06				
		2 40.56	+37 1 11.6	25 41.8	9.500708	2 38
3	2 8 45.27	2 43.98	36 35 29.8	25 40.3	9.501183	2 38
4	2 11 25.83	2 47.35	36 9 49.5	25 40.2	9.501713	2 38
5	2 14 9.81	2 50.58	35 44 9.3	25 39.2	9.502298	2 38
6	2 16 57.16	+2 53.74	35 18 30.1	-25 38.0	9.502940	2 39
7	2 19 47.74	2 56.77	+34 52 52.1	25 36.6	9.503638	2 39
8	2 22 41.48	2 59.71	34 27 15.5	25 34.6	9.504392	2 39
9	2 25 38.25	3 2.54	34 1 40.9	25 32.5	9.505204	2 40
10	2 28 37.96	3 5.25	33 36 8.4	25 30.6	9.506072	2 40
11	2 31 40.50	+3 7.88	33 10 37.8	-25 27.6	9.506997	2 40
12	2 34 45.75	3 10.41	+32 45 10.2	25 26.0	9.507980	2 41
13	2 37 53.63	3 12.83	32 19 44.2	25 23.6	9.509020	2 41
14	2 41 4.04	3 15.15	31 54 20.6	25 20.9	9.510119	2 41
15	2 44 16.87	3 17.41	31 28 59.7	25 18.0	9.511274	2 42
16	2 47 32.02	+3 19.56	31 3 41.7	-25 14.7	9.512487	2 42
17	2 50 49.43	3 21.65	+30 38 27.0	25 11.5	9.513758	2 43
18	2 54 8.99	3 23.62	30 13 15.5	25 8.0	9.515086	2 43
19	2 57 30.64	3 25.55	29 48 7.5	25 4.5	9.516471	2 44
20	3 0 54.26	3 27.37	29 23 3.0	25 0.6	9.517912	2 44
21	3 4 19.81	+3 29.05	28 58 2.4	-24 55.5	9.519408	2 45
22	3 7 47.18	3 30.61	+28 33 6.9	24 52.0	9.520958	2 45
23	3 11 16.23	3 32.08	28 8 14.9	24 47.7	9.522562	2 46
24	3 14 46.84	3 33.45	27 43 27.2	24 43.0	9.524220	2 47
25	3 18 18.92	3 34.76	27 18 44.2	24 38.5	9.525932	2 47
26	3 21 52.37	+3 36.00	26 54 5.7	-24 33.7	9.527698	2 48
27	3 25 27.13	3 37.13	+26 29 32.0	24 28.8	9.529516	2 49
28	3 29 3.13	3 38.18	26 5 3.2	24 23.9	9.531387	2 49
29	3 32 40.26	3 39.10	25 40 39.3	24 18.7	9.533312	2 50
30	3 36 18.44		25 16 20.6		9.535289	2 51
31	3 39 57.54					

Größe Dec. 27: 8.4 Jan. 9: 8.4 Jan. 22: 8.5

Opp. in AR. 1900 Oct. 30

ÜBER DIE PLANETEN (1) – (444).

Zur genaueren Bezeichnung derjenigen Stellen, an welchen die betreffenden Mittheilungen über die kleinen Planeten sich befinden, sind bei sämmtlichen hier benutzten Zeitschriften, nämlich bei den Astronomischen Nachrichten (A. N.), dem *Astronomical Journal* (A. J.), dem *Bulletin Astronomique* (B. A.), den *Comptes Rendus* (C. R.), den *Monthly Notices* (M. N.) die Band- und Seitenzahlen angegeben.

A. Beobachtungen.

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publication
1 Ceres . . .	Arcetri (Mer.) . . .	1899 April 29, Mai 1, 5, 7. 18 ₂ , Mai 19 ₂	A. N. 150, 333
	Arcetri	» April 28 ₂ , 29, Mai 1, 2, 3 ₂ , Mai 5	» » 150, 333
	Wien	1896 Oct. 4 ₂ , 6 ₂ , 9	» » 150, 17
2 Pallas	Arcetri (Mer.) . . .	1899 April 29, Mai 1. 5, 7 . . .	» » 150, 333
	Arcetri	» April 28, 29, Mai 1, 2, 6, Mai 7 ₂	» » 150, 333
	Wien	1892 Aug. 13, 14, 16	» » 150, 17
3 Juno	Berlin (Urania) . . .	1898 April 10*	» » 148, 142
4 Vesta	Arcetri	» Juli 20, 21, 23	» » 149, 257
	Windsor	» April 19, 21, 24 ₂ , 27 ₂ , 28 ₂ , April 29 ₂	» » 147, 313
5 Astraea	Toulouse	1896 Jan. 22 ₂ , Febr. 7	B. A. 16, 172
6 Hebe	Bethlehem	1897 Nov. 27, 28, Dec. 8	A. J. 20, 37
	Jena	» Dec. 16, 17	A. N. 148, 65
	Toulouse	» Dec. 27, 29	B. A. 16, 325
	Toulouse	1896 Mai 15, 19, Juni 1 ₂ , 3 ₂ , 5 ₂ , Juni 6 ₃ , 11 ₂ , 12 ₂	» » 16, 173
	Vassar Coll.	1899 April 3, 4, 5	A. J. 20, 47
	Wien	1896 Juni 2 ₂ , 8, 9	A. N. 150, 17
7 Iris	Algier	1898 Mai 4 ₂ , 5 ₁ , 6 ₂ , 28 ₂ , 31 ₂ , Juni 2	» » 148, 211, B. A. 16, 64
	Arcetri	» Mai 9 ₂ , 10 ₂ , 13, 14, 16, 25, Mai 31 ₂ , Juni 2 ₂ , 4 ₂ , 6 ₂	A. N. 149, 257
	Düsseldorf	» Mai 21, 22, 26, 28	» » 148, 377
	Marseille	» Mai 9	B. A. 15, 422
	Padua	» Mai 31, Juni 6 ₂ , 12 ₂	A. N. 149, 355
	Washington	» Mai 17, 18, 31, Juni 6, 9 . . .	A. J. 20, 13

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publication
7 Iris	Windsor	1898 Mai 8, 11, 12, 13, 14, 16, 17, Mai 19, 20, 21, 22, 24, 25, Juni 2, 4, 5.	A. N. 147, 315
8 Flora	Berlin (Uranin)	1894 Jan. 24*, 28*	» » 148, 139
	Düsseldorf	1898 April 26	» » 148, 377
9 Metis	Pola	» April 30, Mai 1	» » 148, 219
	Toulouse	1896 Dec. 1, 3, 7 ₂ , 8, 16 ₂	B. A. 16, 173
	Marseille	1899 Febr. 20, 21, 22, März 1, 6	» » 16, 279
11 Parthenope	Toulouse	1896 Mai 5, 6	» » 16, 173
	Hamburg	1897 Oct. 15, 17	A. N. 149, 147
	Jena	» Oct. 14, 15	» » 148, 65
	Jena	1899 Febr. 3, 4	» » 149, 311
	Marseille	» Febr. 3, 4, 7, 9, 10, 11, 15, Febr. 16, 20, 21, 22, März 1, 6	B. A. 16, 278
	Marseille	» Jan. 17, 18	» » 16, 311
	Toulouse	1896 April 17 ₂ , 28, Mai 2 ₂ , 5 ₂ , Mai 6, 13, 15, 19	» » 16, 173
13 Egeria	Vassar Coll.	1899 Jan. 30, Febr. 1, 9, 10	A. J. 20, 47
	Düsseldorf	1898 Mai 26, 28	A. N. 148, 377
16 Psyche	Heidelberg	1899 Juli 17*	» » 150, 109
	Toulouse	1897 Febr. 24	B. A. 16, 325
	Vassar Coll.	1898 Mai 9, 13, 14	A. J. 19, 187
17 Thetis	Genf	1899 Mai 2 ₂ , 4 ₂	A. N. 150, 187
	Jena	1897 Dec. 29, 31	» » 148, 65
	Mt. Hamilton (Mer.)	1899 Mai 27, Juni 2	» » 150, 239
	Padua	1898 Jan. 19, 20, 21, 24	» » 149, 353
	Vassar Coll.	1899 April 27, Mai 2, 4	A. J. 20, 76
	Wien	1892 Sept. 15, 16, 17	A. N. 150, 17
18 Melpomene	Toulouse	1896 Febr. 14, 19, 24	B. A. 16, 174
19 Fortuna	Arcetri	1898 Oct. 22 ₂	A. N. 149, 263
	Bethlehem	» Oct. 6, 8, 9, 19, 20, 22	A. J. 20, 37
	Marseille	» Sept. 20 ₂ , 21, 22, 23, Oct. 4, Oct. 6, 7	B. A. 16, 141
	Mt. Hamilton	» Sept. 9, 11, 19 ₂ , 20, 28, Oct. 3, 12	A. J. 19, 194
	Padua	» Sept. 19, 20, Oct. 5 ₃ , 20 ₂ , Oct. 22 ₂ , 23 ₂	A. N. 149, 359
	Toulouse	1897 Mai 18 ₂ , 19	B. A. 16, 325
	Washington	1898 Oct. 12	A. J. 20, 13
	20 Massalia	Toulouse	1896 Juni 11 ₄ , 12 ₃ , Juli 1, 3, 4 ₂ , Juli 8 ₂ , 13 ₂	B. A. 16, 174
21 Lutetia	Toulouse	1897 Juni 21, 22, 23 ₂ , 25	» » 16, 325
24 Themis	Arcetri	1898 Mai 10, 13, 14, 15, 16, 18	A. N. 149, 259
	Düsseldorf	» April 20, Mai 21, 22	» » 148, 377

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publication
24 Themis	Marseille	1898 Mai 10, 11	B. A. 15, 422
	Pola	» April 30, Mai 1	A. N. 148, 219
	Washington	» Mai 17, 18	A. J. 20, 13
	Wien	1894 Aug. 6, 7, 24 ₂ , 25, 26 ₂ , 27 ₂	A. N. 150, 17
	Wien	1895 Oct. 14 ₂ , 15	» » 150, 17
25 Phocaea	Marseille	1898 Aug. 4, 5, 6, 9, 10, 11, 12, Aug. 13	B. A. 16, 139
	Mt. Hamilton	» Aug. 14, 15, 16	A. J. 20, 27
	München	» Juli 16, 18, 21 ₂ , Aug. 2 ₃ , Aug. 5 ₂	A. N. 150, 225
	Padua	» Juli 17, 18 ₃ , 22 ₃ , Aug. 6 ₂ , Aug. 7 ₂ , 13	» » 149, 357
	Paris	» Aug. 5, 10 ₂ , 11 ₂ , 12 ₂ , 13 ₂	B. A. 16, 123
26 Proserpina	Düsseldorf	» Nov. 7, 11, 17	A. N. 148, 377
	Jena	1897 Aug. 5, 7	» » 148, 65
	Jena	1898 Nov. 13	» » 149, 311
	München	» Oct. 27 ₂	» » 150, 227
	Padua	» Oct. 26, Nov. 8 ₂ , 12	» » 149, 361
	Toulouse	1896 März 16, 17, 23	B. A. 16, 174
27 Euterpe	Toulouse	1897 Juli 5, 6, 21 ₂ , 22 ₃ , 23 ₂	» » 16, 325
	Heidelberg	1899 Juli 17*	A. N. 150, 109
28 Bellona	Toulouse	1896 Oct. 15, 26, 29 ₁	B. A. 16, 174
	Düsseldorf	1898 Sept. 15	A. N. 148, 377
29 Amphitrite	Hamburg	1897 Juli 12, 29, 30, Aug. 2, 3	» » 149, 147
	München	1898 Oct. 4	» » 150, 227
	Padua	» Sept. 20, Oct. 5 ₂ : 21 ₂ , 22, Oct. 23, 24	» » 149, 359
	Padua	1897 Dec. 23, 1898 Jan. 14, 19, Jan. 20, 21, 22	» » 149, 353
32 Pomona = [1899 EP]	Pola	1898 Jan. 12	» » 148, 219
	Wien	1892 Aug. 16, 17 ₂ , 18	» » 150, 19
	Berlin (Urania)	1898 April 14*	» » 148, 142
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33 Polyhymnia	Paris	» Aug. 26 ₂	A. J. 20, 104 A. N. 150, 255 C. R. 129, 435
	Pola	1898 April 15	A. N. 148, 219
	Arcetri	» Dec. 4 ₂ , 5 ₂ , 6 ₂ , 10, 11, 12	» » 149, 263
33 Polyhymnia	Padua	» Dec. 16, 22	» » 149, 363
	Toulouse	1897 Mai 29 ₂	B. A. 16, 326
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33 Polyhymnia	Wien	1893 Nov. 13, 14, 29 ₂	A. N. 150, 19
35 Leukothea	Arcetri	1898 Sept. 8, 9, 10, 11 ₂ , 13	» » 149, 263
37 Fides	Düsseldorf	» Sept. 16, 17, Oct. 5 ₂ , 8	» » 148, 377
	München	» Sept. 26, 27 ₂	» » 150, 227
	Padua	» Sept. 18, 21, Oct. 5 ₂ , 20 ₃ , Oct. 21, 24 ₂	» » 149, 359
	Toulouse	1896 April 17, 21	B. A. 16, 174
38 Leda	Wien	1897 März 4 ₂ , 5	A. N. 150, 19
40 Harmonia	Berlin (Urania)	» April 9*	» » 148, 141
42 Isis	Algier	1898 Mai 31 ₂	» » 148, 211, B. A. 16, 65
	Arcetri	» Juni 12, 13, 14, 18	A. N. 149, 257
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	Padua	» Mai 24, 31, Juni 6 ₂ , 11 ₂ , 12, Juni 20 ₂ , 25	» » 149, 355
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	43 Ariadne	Hamburg	1897 Sept. 27, Oct. 2
	Toulouse	» Oct. 14, 18, 20, 21, 23, 26 ₃ , Oct. 27	B. A. 16, 326
	Wien	» Sept. 25 ₂ , 27, 28, 29	A. N. 150, 19
44 Nysa	Berlin (Urania)	1894 Jan. 24*, 28*	» » 148, 139
	Wien	1892 Aug. 27 ₂	» » 150, 19
45 Eugenia	Berlin (Urania)	1897 April 9*	» » 148, 141
46 Hestia	Arcetri	1898 Dec. 10, 11 ₂ , 12, 16 ₂ , 17 ₂	» » 149, 263
	Jena	1899 Jan. 6, 9	» » 149, 311
	Padua	1898 Dec. 5, 16, 21, 22 ₂ , 23 ₃	» » 149, 363
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47 Aglaja	Jena	1897 Dec. 19	A. N. 148, 65
	Toulouse	1896 Sept. 3, 5, 7, 11	B. A. 16, 175
48 Doris	Berlin (Urania)	1898 Jan. 19*	A. N. 148, 142
49 Pales	Wien	1895 Aug. 21 ₂ , 22 ₂ , 23, 24 ₂ , 26 ₂ , Aug. 27 ₂ , 28 ₂ , 29 ₂ , 30 ₂ , 31 ₂	» » 150, 19
	Berlin (Urania)	1894 Jan. 9*	» » 148, 139
52 Europa	Berlin (Urania)	1897 Mai 3*, 6*	» » 148, 141
	Toulouse	1896 Febr. 5, 6, 7, 8 ₂ , 10	B. A. 16, 175
53 Kalypso	Arcetri	1898 Aug. 12, 13, 14 ₂ , 16, 17, Aug. 18, Sept. 6 ₂ , 7	A. N. 149, 261
	Hamburg	» Aug. 21	» » 149, 147
	München	» Aug. 13 ₂ , 16 ₂	» » 150, 227
	Toulouse	1896 März 5, 7 ₂	B. A. 16, 175
56 Melete	Düsseldorf	1898 März 21, April 8	A. N. 148, 377

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56 Melete . . .	Vassar Coll. . .	1898 April 8	A. J. 20, 29
	Wien	» März 27	A. N. 149, 289
57 Mnemosyne .	Arcetri	» Aug. 22, 27, Sept. 6, 7, 8, Sept. 9, 10	» » 149, 263
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	Jena	1897 Juni 2	» » 148, 65
	Hamburg	1898 Aug. 21	» » 149, 147
	München	» Aug. 16 ₂ , 27 ₃ , Sept. 6 ₃ . .	» » 150, 227
	Padua	» Sept. 16, 17 ₃ , 18, 19 ₃ , 20, Sept. 21 ₃ , 22	» » 149, 357
	Toulouse	1897 Juni 21 ₂ , 22, 23 ₂	B. A. 16, 326
	58 Concordia .	Arcetri	1898 Dec. 5 ₂ , 6 ₂ , 7 ₂ , 10, 11, 12
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Padua		» Dec. 5, 6 ₂ , 18 ₃ , 21 ₂ . . .	» » 149, 363
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60 Echo = [1899 E.J]	Arcetri	1899 März 6 ₂ , 7	» » 149, 15
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	Jena	» März 17	A. N. 149, 47
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61 Danaë . . .	Jena	1897 Dec. 26, 27	» » 148, 65
	Jena	1899 Febr. 3, 4	» » 149, 311
	Marseille	» Febr. 15	B. A. 16, 278
	Toulouse	1896 Sept. 3, 5, 11, 15	» » 16, 175
	Toulouse	1897 Dec. 29 ₃	» » 16, 326
64 Angelina . . .	Toulouse	1896 Febr. 14 ₂ , 19	» » 16, 175
65 Cybele . . .	Padua	1898 Jan. 21	A. N. 149, 353
	Wien	1895 Sept. 19 ₂ , 20 ₂ , 23 ₂ , 24 ₂ , Sept. 25 ₂	» » 150, 21
68 Leto	Berlin (Urania) .	1897 Febr. 8*	» » 148, 141
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	Jena	1897 Febr. 11, 19, 20	» » 148, 65
70 Panopaea . . .	Berlin (Urania) .	1896 Nov. 4*, 5*	» » 148, 141
71 Niobe	Arcetri	1898 Sept. 8, 9 ₂ , 10 ₂ , 11 ₂ . . .	» » 149, 263
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71 Niobe . . .	Toulouse . . .	1896 Febr. 6 ₃ , 7 ₂ , 8 ₃ , 10 . . .	B. A. 16, 175
72 Feronia . . .	Berlin (Urania) . . .	1898 Jan. 19*	A. N. 148, 142
76 Freia . . .	Toulouse . . .	1896 März 16. 17	B. A. 16, 175
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77 Frigga . . .	Hamburg . . .	1897 Oct. 5, 6.	A. N. 149, 147
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	Wien	» Sept. 29. 30	A. N. 150, 21
78 Diana . . .	Hamburg . . .	» April 3 ₂ , 5, 6	» » 149, 147
	Jena	» April 3, 5	» » 148, 67
	Rom	1898 Juli 15	» » 149, 305
79 Eurynome . . .	Jena	1899 Febr. 10	» » 149, 311
	Marseille . . .	» Febr. 3, 9, 10, 11, 15, 16, Febr. 20	B. A. 16, 278
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80 Sappho . . .	Berlin (Urania) . . .	1894 Jan. 9*, 1896 Oct. 8* . . .	A. N. 148, 139, 140
	Toulouse . . .	1896 Oct. 6 ₂ , 7 ₂ , 15, 16, 29 ₂ , 30 . . .	B. A. 16, 176
	Wien	» Oct. 4 ₂ , 6 ₂ , 16 ₂	A. N. 150, 21
82 Alkmene . . .	Algier	1898 April 1 ₂ , 4 ₂ , 7 ₂ , 13 ₂ , 14 ₂ . . .	» » 148, 209, B. A. 16, 64
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	84 Klio	Düsseldorf . . .	» Nov. 4, 7, 12, 17
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85 Io = [1899 EN]	Arcetri	1899 Juni 9, 12 ₂	» » 150, 237
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87 Sylvia . . .	Toulouse . . .	1897 Febr. 8 ₂	B. A. 16, 327
90 Antiope . . .	Heidelberg . . .	1899 Juli 17*	A. N. 150, 109
	Toulouse . . .	1897 Febr. 8	B. A. 16, 327
91 Aegina . . .	Toulouse . . .	» Febr. 24	» » 16, 327
92 Undina . . .	Toulouse . . .	1896 Oct. 3, 4, 6 ₂ , 12 ₃ , 15 . . .	» » 16, 176

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92 Undina . . .	Wien . . .	1896 Oct. 10 ₂ , 17	A. N. 150, 21
95 Arethusa . . .	München . . .	1898 Juli 15 ₃ , 17, 18 ₂ , 21 ₂	» » 150, 227
	Padua . . .	» Juli 15, 17, 18, 22	» » 149, 357, 150, 327
97 Klotho . . .	Wien . . .	1892 Aug. 23 ₂ , 24 ₂	» » 150, 21
101 Helena . . .	Hamburg . . .	1897 Aug. 30, 31	» » 149, 149
	Mt. Hamilton . . .	1899 Jan. 28, 29, 30, Febr. 6, 7, 8	» » 150, 307
	Toulouse . . .	1897 Sept. 1 ₂	B. A. 16, 327
103 Hera . . .	Wien . . .	» Aug. 28 ₂ , 30 ₂ , Sept. 5	A. N. 150, 21
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104 Klymene . . .	Toulouse . . .	» Febr. 8, 10 ₂	B. A. 16, 327
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105 Artemis . . .	Toulouse . . .	1896 Sept. 11, 15, 29, Oct. 3, 6 ₂	B. A. 16, 176
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	Mt. Hamilton . . .	1898 Nov. 9	A. J. 20, 27
106 Dione . . .	Padua . . .	» Jan. 20, 24	A. N. 149, 353
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108 Hecuba . . .	Algier . . .	1898 April 28 ₂ , 30 ₂ , Mai 2 ₂	» » 148, 209, B. A. 16, 64
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113 Amalthea . . .	Marseille . . .	1898 Sept. 13, 14, 15, 16, 17	B. A. 16, 140
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	Toulouse . . .	1897 April 28 ₂ , Mai 10 ₄ , 26, 29	B. A. 16, 327
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	Jena . . .	» Nov. 19	» » 148, 67
118 Peitho . . .	Toulouse . . .	» Nov. 16 ₂ , 26 ₂ , 30 ₃	B. A. 16, 327
	Vassar Coll. . . .	1899 Mai 8, 9	A. J. 20, 76
121 Hermione . . .	Padua . . .	1898 Juni 11, 12, 20, 25 ₂	A. N. 149, 357
122 Gerda . . .	Padua . . .	» Jan. 14	» » 149, 353
126 Velleda . . .	Arcetri . . .	» Juli 16, 17, 18 ₂ , 19, 20, 21,	» » 149, 259
		Juli 22, 23, 24, 25	
127 Johanna . . .	Berlin (Urania) . . .	1897 Febr. 28*, März 3*	» » 148, 141
128 Nemesis . . .	Toulouse . . .	» Mai 22 ₂ , 23 ₂ , 25, 26 ₂ , 29	B. A. 16, 328
130 Elektra . . .	Hamburg . . .	» Juni 15	A. N. 149, 149
	Jena . . .	» Mai 29, 31	» » 148, 67
134 Soplrosyne . . .	Düsseldorf . . .	1898 Nov. 8, 10, 11, 17	» » 148, 379

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134 Sophrosyne	Jena	1898 Nov. 13, 18	A. N. 149, 311	
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135 Hertha	Toulouse	1897 März 22 ₂ , 23 ₃ , 25 ₂ , 26, 29	B. A. 16, 328	
136 Austria	Wien	1898 Febr. 20, März 14	A. N. 149, 289	
137 Meliboea	Hamburg	1897 Juli 12, 29, 30, Aug. 3	» » 149, 149	
	Jena	» Juli 21	» » 148, 67	
	Toulouse	» Juli 5 ₂ , 6 ₂ , 8, 20 ₂ , 21, 22 ₂ , Juli 23, 28 ₃ , 29 ₃ , 30 ₂ , 31 ₄ , Aug. 3 ₂ , 4	B. A. 16, 328	
138 Tolosa	Toulouse	1896 Febr. 5, 6, 7, 10	» » 16, 177	
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139 Juewa	Mt. Hamilton	1898 Dec. 10, 11, 12	A. J. 20, 27	
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	Washington	» Dec. 17	A. J. 20, 13	
140 Siwa	Toulouse	1896 Juli 13, 17, 18 ₂	B. A. 16, 177	
142 Polana	Wien	1898 März 27	A. N. 149, 289	
144 Vibilia	Toulouse	1897 Juli 5, 6 ₂ , 8	B. A. 16, 329	
146 Lucina	Hamburg	» April 5, 9, Mai 4 ₂	A. N. 149, 149	
	Jena	» Mai 8	» » 148, 67	
	Toulouse	» April 26, 27 ₂ , 28 ₂ , Mai 4 ₂ , 10 ₂	B. A. 16, 329	
147 Protogeneia	Heidelberg	1898 Sept. 18, 20	A. N. 148, 45	
148 Gallia	Algier	» Aug. 10, 11 ₂ , 12, 26, 27, Aug. 31 ₂ , Sept. 1, 2, 5, 6	» » 148, 211, B. A. 16, 65	
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		München	» Aug. 12 ₄	A. N. 150, 227
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	Toulouse	1897 Mai 29 ₃	B. A. 16, 329	
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151 Abundantia	Düsseldorf	» März 20	A. N. 148, 379	
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153 Hilda	Hamburg	1897 Aug. 2	A. N. 149, 149	
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153 Hilda . . .	Marseille . . .	1898 Oct. 8, 10, 12, 13, 19, 20, Oct. 21	B. A. 16, 141
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154 Bertha . . .	Wien	» Aug. 2 ₂ , 3, 4 ₂ , 5 ₂ , 6 ₂	A. N. 150, 23
	Marseille . . .	1898 Oct. 25, 26	B. A. 16, 141
158 Koronis . . .	Padua	» Nov. 15 ₃	A. N. 149, 361
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160 Una	Jena	1897 Dec. 26, 27	A. N. 148, 67
161 Athor = [1899 EQ]	Toulouse . . .	» Dec. 27 ₃ , 28 ₃	B. A. 16, 330
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162 Laurentia . . .	Hamburg . . .	1897 Mai 4	» » 149, 149
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163 Erigone . . .	Wien	1892 Sept. 13 ₃ , 14 ₂ , 15 ₂	A. N. 150, 23
164 Eva	Marseille . . .	1898 Oct. 25, 26, 27, Nov. 7, 9, Nov. 10	B. A. 16, 141, 311
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168 Sibylla . . .	Arcetri	» März 17, 19 ₂	» » 149, 259
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169 Zelia	Mt. Hamilton . . .	1898 Sept. 16, 17, 18, 20	A. J. 20, 27
170 Maria	Heidelberg . . .	1899 Juli 17*	A. N. 150, 109
171 Ophelia . . .	Toulouse . . .	1897 Oct. 18, 20	B. A. 16, 330
	Wien	1894 Febr. 23, 25	A. N. 150, 23
175 Andromache . . .	Albany	1897 Jan. 24, 31	A. J. 19, 162
	Arcetri	1898 Mai 16, 18	A. N. 149, 259
176 Idunna	Denver	» Mai 9 ₂	A. J. 19, 119
	Toulouse . . .	1897 März 25 ₂	B. A. 16, 330
181 Eucharis . . .	Wien	1892 Aug. 27, 30 ₂	A. N. 150, 23
	Wien	1895 April 15, 16, 17, 18	» » 150, 25
182 Elsa	Toulouse . . .	1897 März 22, 23, 24, 25, 26 ₂ , März 29 ₂	B. A. 16, 330
	Marseille . . .	1898 Oct. 10, 12, 13	» » 16, 141
188 Menippe . . .	Nizza	1897 Aug. 28, Sept. 4	» » 15, 464
190 Ismene	Arcetri	1898 Mai 16, 18	A. N. 149, 259
192 Nausikaa . . .	Wien	» März 27	» » 149, 289
194 Prokne	Hamburg . . .	1897 Aug. 20, 22, 30, Sept. 11	» » 149, 149
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	Wien	» Aug. 18 ₂ , 19 ₂	A. N. 150, 25
196 Philomela . . .	Toulouse . . .	» Juli 21, 22, 23	B. A. 16, 331
197 Arete	Teramo	1898 Oct. 10, 11	A. N. 149, 49

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198 Ampella . . .	Algier . . .	1898 Mai 7 ₂ , 9 ₂ , 10 ₂ , 11 ₂ , 23, Mai 25 ₂ , 27 ₂ , 28 ₂ . . .	A. N. 148, 211, B. A. 16, 66
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201 Penelope . . .	Hamburg . . .	1897 Oct. 17 ₄ , 24 . . .	» » 149, 149
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207 Hedda . . .	Vassar Coll. . .	1898 Febr. 16 . . .	A. J. 19, 187
210 Isabella . . .	Toulouse . . .	1897 Oct. 21 ₂ , 23, Nov. 30 ₂ . . .	B. A. 16, 331
212 Medea . . .	Berlin (Urania) . . .	1894 Sept. 5* . . .	A. N. 148, 139
213 Lilaea . . .	Marseille . . .	1898 Febr. 12, 14 . . .	B. A. 15, 423
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219 Thusnelda . . .	Düsseldorf . . .	» Sept. 9, 17 . . .	A. N. 148, 379
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221 Eos . . .	Algier . . .	» März 18 ₂ , 19 ₂ . . .	» » 148, 209, B. A. 16, 63
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222 Lucia = [1899 EK]	Wien . . .	1899 März 9 ₂ . . .	» » 149, 15, A. J. 20, 24
	Wien . . .	» März 12, 14, 16 . . .	A. N. 149, 31
224 Oceana = [1899 EG]	Düsseldorf . . .	» März 13, 14 . . .	» » 149, 31
	Heidelberg . . .	» März 2* . . .	» » 148, 387, A. J. 20, 24
	Jena . . .	» März 15 . . .	A. N. 149, 47
	Padua . . .	» März 18 . . .	» » 149, 47
225 Henrietta . . .	Wien . . .	1895 Mai 11, 14 ₂ . . .	» » 150, 25
	Wien . . .	1896 Oct. 9 ₂ , 10 . . .	» » 150, 25
226 Weringia . . .	Wien . . .	1898 Jan. 26 . . .	» » 149, 289
230 Athamantis . . .	Hamburg . . .	1897 Oct. 6, 15, 17, Nov. 9 . . .	» » 149, 149
	Jena . . .	» Oct. 14, 15 . . .	» » 148, 67
	Toulouse . . .	» Oct. 18 ₂ , 20, 21 . . .	B. A. 16, 331
233 Asterope . . .	Hamburg . . .	» Aug. 22, 26, 30 . . .	A. N. 149, 151
	Jena . . .	» Aug. 24, 26 . . .	» » 148, 67
	Toulouse . . .	» Aug. 17 ₄ , 19 ₂ , 20 ₂ , 23 ₂ . . .	B. A. 16, 332
240 Vanadis . . .	Jena . . .	» Aug. 24 . . .	A. N. 148, 67
	Toulouse . . .	» Aug. 20 ₂ , 21, 23, 26, 27, Sept. 1 . . .	B. A. 16, 332

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241 Germania . . .	Düsseldorf . . .	1898 März 20	A. N. 148, 379
	Hamburg	1897 Febr. 3	» » 149, 151
	Jena	1898 März 28	» » 148, 67
	Padua	» März 22, 23	» » 149, 355
	Wien	1895 Oct. 22	» » 150, 25
243 Ida	Teramo	1898 Sept. 17	» » 149, 49
246 Asporina	Heidelberg	1899 März 15, 17, 18	» » 149, 255
247 Eukrate	Düsseldorf	1898 Jan. 17, 18	» » 148, 379
	Hamburg	» Jan. 18, Febr. 3, 4	» » 149, 151
	Jena	1897 Dec. 31, 1898 Jan. 2	» » 148, 67
	Minneapolis	1898 Jan. 21, 28, 31	A. J. 19, 145
	Northfield	» Jan. 13, 17	» » 19, 145
	Vassar Coll.	» Jan. 24	» » 19, 187
	Wien	1892 Sept. 25	A. N. 150, 25
248 Lameia	Wien	1898 Nov. 7	» » 149, 289
250 Bettina	Hamburg	1897 Nov. 25	» » 149, 151
	Jena	» Oct. 29, Nov. 19	» » 148, 67
	Toulouse	» Nov. 16 ₂ , 18 ₂ , 19 ₂ , 26, 29, Nov. 30 ₂	B. A. 16, 332
253 Mathilde	Wien	1898 Dec. 13	A. N. 149, 289
256 Walpurga	Teramo	» Sept. 16	» » 149, 49
	Wien	1892 Juni 27	» » 150, 25
258 Tyche	Arcetri	1898 März 17, 19	» » 149, 259
259 Aletheia	Arcetri	» Sept. 17, 18, 20	» » 149, 275
	Teramo	» Sept. 12, 13, 14	» » 149, 49
261 Prymno	Toulouse	1897 Dec. 17	B. A. 16, 332
	Vassar Coll.	» Nov. 27, 29, 30, Dec. 15	A. J. 19, 187
262 Valda	Teramo	1898 Sept. 22	A. N. 149, 49
	Wien	» Sept. 17	» » 149, 289
263 Dresda	Wien	» Febr. 20?	» » 149, 289
266 Aline	Arcetri	» Dec. 10 ₂ , 11, 12	» » 149, 275
	Heidelberg	» Nov. 20*, 21*	» » 148, 45
	Marseille	» Dec. 21, 22	B. A. 16, 311
	Padua	» Dec. 5 ₂ , 6, 8 ₂ , 18 ₂ , 21 ₂	A. N. 149, 361
	Rom	» Dec. 6	» » 149, 307
	Vassar Coll.	» Dec. 8, 9, 13	A. J. 20, 47
268 Adorea	Berlin (Urania)	1897 März 3*	A. N. 148, 141
270 Anahita	Hamburg	» Nov. 25	» » 149, 151
	Toulouse	» Nov. 16 ₂ , 26 ₂ , 27 ₂ , 30	B. A. 16, 333
	Wien	» Nov. 23, 26 ₂	A. N. 150, 25
273 Atropos	Nizza	» Nov. 25	B. A. 15, 464
275 Sapientia	Jena	» März 2, 4	A. N. 148, 69
	Toulouse	» Febr. 26, 27	B. A. 16, 333
	Wien	» März 4, 5	A. N. 150, 25

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276 Adelheid . . .	Toulouse . . .	1896 Oct. 26, 30	B. A. 16, 177
282 Clorinde . . .	Teramo . . .	1898 Oct. 20	A. N. 149, 49
283 Emma . . .	Arcetri . . .	1899 Jan. 4 ₂ , 5, 6 ₂	» » 149, 277
	Jena . . .	1897 Oct. 5	» » 148, 69
	Marseille . . .	1899 Jan. 4, 5, 13, 17, 18 . . .	B. A. 16, 311
	Rom . . .	1898 Dec. 16	A. N. 149, 307
286 Iclea . . .	Wien . . .	» Febr. 18, 20	» » 149, 289
287 Nephthys . . .	Jena . . .	1897 Dec. 16, 17	» » 148, 69
	Toulouse . . .	1896 Juni 29, Juli 1 ₂ , 3 ₂ , 4, Juli 8 ₃ , 9 ₂ , 13, 17, 18 ₂ . . .	B. A. 16, 177
	Toulouse . . .	1897 Nov. 26, 27, 30 ₂ , Dec. 14 ₂ , Dec. 16 ₂ , 17 ₂	» » 16, 333
	Vassar Coll. . .	1899 April 15	A. J. 20, 76
288 Glauke . . .	Jena . . .	» Febr. 3, 10	A. N. 149, 311
	Rom . . .	» Jan. 5, 13, Febr. 3	» » 149, 307
	Wien . . .	1898 April 14, 26	» » 149, 289
292 Ludovica . . .	Wien . . .	1898 April 14, 26	» » 149, 289
301 Bavaria . . .	Arcetri . . .	» Juli 23, 24, 25, 26, Aug. 10, Aug. 11	» » 149, 273
	München . . .	» Aug. 6 ₂ , 16 ₂	» » 150, 229
	Toulouse . . .	1897 März 29 ₂	B. A. 16, 333
	Wien . . .	1898 Juli 16, 17	A. N. 149, 291
	Berlin (Urania) . . .	1896 Aug. 3*, 11*	» » 148, 140
304 Olga . . .	Toulouse . . .	» Sept. 3, 5 ₂ , 9 ₂ , 10, 15 ₂ , 29, Oct. 3, 6 ₂ , 7 ₂	B. A. 16, 178
	Genf . . .	1899 Juni 10, 11, 12, 13, 14 . . .	A. N. 150, 187
	Padua . . .	1898 Febr. 11, 12, 18	» » 149, 353, 150, 327
306 Unitas . . .	Rom . . .	» Jan. 23, Febr. 10, 27	» » 149, 305
	Vassar Coll. . .	» Febr. 16	A. J. 19, 187
	Wien . . .	1892 Juli 16, 24, 29 ₂ , Aug. 1 ₂ , Aug. 4 ₂ , 7 ₂ , 13 ₂ , 14 ₂ , 16 ₂ , Aug. 17 ₂ , 18 ₂ , 19 ₂ , 21 ₃	A. N. 150, 25
	Toulouse . . .	1897 Aug. 26	B. A. 16, 333
308 Polyo . . .	Wien . . .	» Aug. 24 ₂ , Sept. 24 ₂ , 27 ₂ , 28	A. N. 150, 27
	Albany . . .	» März 28, April 2, 3, 28, Mai 5, 7	A. J. 19, 162
313 Chaldaea . . .	Arcetri . . .	1898 Juli 24, 25, 26 ₂ , Aug. 8 ₂ , 9 ₂ , Aug. 10 ₂ , 11 ₂ , 12 ₂ , 13 ₂ , 21 ₂ . . .	A. N. 149, 261
	Hamburg . . .	1897 April 23 ₂	» » 149, 151
	Jena . . .	» April 22, 26, Mai 3	» » 148, 69
	Marseille . . .	1898 Aug. 10, 11, 12	B. A. 16, 140
	München . . .	» Juli 22	A. N. 150, 229
	Padua . . .	» Juli 24	» » 149, 357, 150, 327

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313 Chaldaea . . .	Paris . . .	1898 Aug. 11 ₂ , 13 ₂ , 16 ₂ . . .	B. A. 15, 419
	Toulouse . . .	1897 April 24, 26 ₃ , 27, 28 ₂ , Mai 4	» » 16, 333
	Wien . . .	1893 Febr. 24	A. N. 150, 27
	Wien . . .	1897 April 28	» » 150, 27
317 Roxane . . .	Marseille . . .	1898 Sept. 8, 9, 10	B. A. 16, 140
	München . . .	» Aug. 22 ₂ , Sept. 7 ₃ , 8 ₂ . . .	A. N. 150, 229
	Padua . . .	» Sept. 17, 18, 19, 21, 22 . . .	» » 149, 357, 150, 327
	Rom . . .	» Sept. 8	» » 149, 307
	Wien . . .	» Sept. 12, 16	» » 149, 291
318 Magdalena . . .	Teramo . . .	» Dec. 11	» » 149, 49
321 Florentina . . .	Berlin (Urania) . . .	1896 Nov. 4*	» » 148, 141
	Wien . . .	1898 Febr. 18	» » 149, 291
325 Heidelberga . . .	Wien . . .	» März 28	» » 149, 291
326 Tamara . . .	Wien . . .	1893 Oct. 8 ₂ , Dec. 4, 6, 30, 1894 Jan. 2	» » 150, 27
	Wien . . .	1895 März 1	» » 150, 27
332 Siri . . .	Toulouse . . .	1896 Febr. 13	B. A. 16, 179
333 Badenia . . .	Wien . . .	1892 Aug. 27 ₂ , 30 ₂ , Sept. 2 ₂ , 11, Sept. 14 ₂ , 20 ₂	A. N. 150, 27
	Albany . . .	1897 April 2, 3, 18, 21	A. J. 19, 162
334 Chicago . . .	Heidelberg . . .	1899 Juli 17*	A. N. 150, 109
	Mt. Hamilton . . .	1898 Mai 19, Juni 2 ₂ , 3, 9, 10, 23	A. J. 20, 7
	Mt. Hamilton . . .	» Mai 19, Juni 2, 9, 10, 23 . . .	» » 20, 23
	Wien . . .	1892 Sept. 17 ₂	A. N. 150, 29
335 Roberta . . .	Algier . . .	1898 Mai 9 ₂ , 10 ₂ , 11 ₂	» » 148, 211, B. A. 16, 65
342 Endymion . . .	Berlin (Urania) . . .	1896 Oct. 5*	A. N. 148, 140
345 Tercidina . . .	Arcetri . . .	1898 Mai 24, 25, Juni 12, 13 ₂ , Juni 14, 18, 20, 21, 22 . . .	» » 149, 259
	Jena . . .	1897 Febr. 3	» » 148, 69
	Padua . . .	1898 Mai 14, 16, 24, 31, Juni 12	» » 149, 355
	Rom . . .	» Mai 20	» » 149, 305
	Toulouse . . .	1896 Dec. 30 ₂ , 1897 Jan. 4, 8 ₂ , Febr. 1 ₂	B. A. 16, 178, 334
	1899 Mai 2, 4, 6	A. J. 20, 76	
346 Hermentaria . . .	Vassar Coll. . .	1899 Mai 2, 4, 6	A. J. 20, 76
	Düsseldorf . . .	1898 März 12, 16, 21	A. N. 148, 381
	Padua . . .	» März 23	» » 149, 355
347 Pariana . . .	Vassar Coll. . .	» März 17	A. J. 20, 29
	Jena . . .	1897 Dec. 10, 16, 17	A. N. 148, 69
349 Dembowska . . .	Toulouse . . .	» Nov. 26 ₂ , 27 ₃ , 29 ₂ , 30 ₂ , Dec. 15 ₂ , 16 ₂ , 17, 23 ₂ . . .	B. A. 16, 334
	Wien . . .	1893 März 4, 30, April 1 ₂ , 2 ₂ , 3 ₂	A. N. 150, 29

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349 Dembowska	Wien	1894 Febr. 22 ₂ , 23 ₂ , 25 ₂ , 28, März 2 ₂ , 25, 28, 29 ₂	A. N. 150, 29
	Wien	1897 Dec. 10 ₂	» » 150, 29
351 Yrsa	Wien	1893 Jan. 16	» » 150, 29
352 Gisela	Düsseldorf	1898 Sept. 17	» » 148, 381
	Marseille	» Oct. 20, 21, 22	B. A. 16, 141
	München	» Oct. 7, 10 ₂	A. N. 150, 229
354 Eleonora	Arcetri	» März 13 ₂ , 16 ₂ , 17 ₂	» » 149, 273
	Berlin (Urania)	1894 April 25*, 26*, Mai 9*	» » 148, 139
	Düsseldorf	1898 Febr. 12, 14, 26, 28	» » 148, 381
	Hamburg	» April 2	» » 149, 151
	Marseille	» Febr. 9, 10, 12, 14, März 15, März 16, 17, 18, April 7, 8, April 9, 12, 13, 15, 18, 19, April 20, 22, 30	B. A. 15, 423
	Pola	» März 1, 16	A. N. 148, 219
	Rom	» Febr. 9, März 1 ₂	» » 149, 305
Vassar Coll.	» Febr. 24, 26, 28	A. J. 20, 29	
356 [1893 G]	Wien	1894 Mai 2	A. N. 150, 29
	Berlin (Urania)	1896 Oct. 5*, 8*, 9*	» » 148, 140, 141
	Berlin (Urania)	1898 März 20*	» » 148, 142
358 [1893 K]	Wien	» März 26, 27, 28	» » 149, 291
362 [1893 R]	Wien	» März 21, 26	» » 149, 291
362 [1893 R]	Berlin (Urania)	1897 März 3*	» » 148, 141
	Hamburg	» April 3	» » 149, 151
363 [1893 S]	Arcetri	1898 März 22 ₂ , April 15, Mai 10, Mai 13, 14	» » 149, 259
	Berlin (Urania)	» April 10*	» » 148, 142
	Padua	» März 17, 19, 22 ₂ , 23 ₂ , 26, Mai 14 ₂ , 15 ₂ , 16	» » 149, 355
	Rom	» März 18, April 24, Mai 16	» » 149, 305
	Vassar Coll.	» März 17, 25	A. J. 20, 29
	Wien	» April 30 ₂ , Mai 1	A. N. 149, 291
	366 Vincentina	Wien	» Febr. 25, März 1	» » 149, 291
371 [1893 AD]	Arcetri	» Sept. 22, 23	» » 149, 261
	München	» Sept. 17 ₂ , 18 ₃ , Oct. 7 ₂	» » 150, 229
	Padua	» Sept. 22, Oct. 21 ₂ , 22 ₂ , 23	» » 149, 361
	Rom	» Sept. 22	» » 149, 307
	Wien	» Sept. 16, 18	» » 149, 291
	372 [1893 AH]	Wien	1893 Sept. 29, 30	» » 150, 29
375 [1893 AL]	Wien	» Oct. 6, 7, Nov. 14 ₂	» » 150, 31
377 [1893 AN]	Arcetri	1898 Dec. 12, 16, 17 ₂	» » 149, 275
	Hamburg	1897 Aug. 31	» » 149, 151
	Jena	» Aug. 26	» » 148, 69

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377 [1893 AN]	Marseille	1899 Jan. 5, 11, 13, 17	B. A. 16, 311
	Nizza	1897 Aug. 23, 24	» » 15, 464
	Rom	1898 Dec. 9, 10	A. N. 149, 307
	Toulouse	1897 Aug. 20, 21, 23, 26, 27	B. A. 16, 334
	Wien	1893 Oct. 6 ₂ , 7, 9 ₂ , 11, 18, Dec. 4, Dec. 6, 30	A. N. 150, 31
379 [1893 AQ]	Heidelberg	1898 Nov. 20*, 21*	» » 148, 45
	Nizza	1897 Aug. 21, 23	B. A. 15, 464
	Toulouse	» Juli 29 ₂ , 30 ₂ , 31, Aug. 4 ₃	» » 16, 334
384 Burdigala	Padua	1898 Jan. 20, 21	A. N. 149, 353
385 Ilmatar	Berlin (Urania)	1896 Aug. 15*, Sept. 14*	» » 148, 140
	Berlin (Urania)	1897 Nov. 19*, Dec. 17*	» » 148, 142
	Jena	» Dec. 29, 31, 32	» » 148, 69
	Vassar Coll.	1899 April 12, 15, 18	A. J. 20, 76
	Wien	1894 März 7 ₂ , 8 ₂ , 24 ₂ , 29, 30, April 1, 2, 9, Mai 20 ₂	A. N. 150, 31
386 [1894 AY]	Jena	1897 Dec. 26, 27	» » 148, 69
	Toulouse	1896 Juli 4 ₂ , 9 ₂ , 13 ₂ , 17, 18 ₃	B. A. 16, 178
	Toulouse	1897 Dec. 16 ₂ , 17, 23, 27	» » 16, 335
	Wien	1894 März 8	A. N. 150, 31
387 Aquitania	Albany	1896 Nov. 22	A. J. 19, 162
389 [1894 BB]	Düsseldorf	1898 Jan. 17, 18	A. N. 148, 381
	Jena	» Jan. 19	» » 148, 69
	Marseille	» Febr. 9, 10, 11, 12, 14	B. A. 15, 423
	Padua	» Jan. 19, 20, 21, 24, Febr. 12	A. N. 149, 353
	Rom	» Jan. 24, 30	» » 149, 305
	Arcetri	» Nov. 13, 15, 16, 17	» » 149, 275
397 [1894 BM]	Düsseldorf	» Nov. 7, 8, 11, 18, 19 ₂ , Dec. 6	» » 148, 381
	Jena	» Nov. 13	» » 149, 311
	Teramo	» Oct. 23	» » 149, 49
	Jena	1899 Febr. 15	» » 149, 311
	Rom	» Febr. 16	» » 149, 307
402 [1895 BW]	Vassar Coll.	» März 12, 14, 16	A. J. 20, 47
	Nizza	1897 Nov. 23, 24	B. A. 15, 464
	Berlin (Urania)	» Dec. 28*	A. N. 148, 142
403 [1895 BX]	Arcetri	1898 Aug. 9, 10, 11 ₂ , 12, 13, Aug. 14 ₂ , 16, 17, 18, 19, 20	» » 149, 273
	Berlin (Urania)	» Juli 28*	» » 148, 142
	München	» Aug. 5 ₂ , 12 ₃	» » 150, 229
	Padua	» Aug. 12, 15, 16	» » 149, 357
	Paris	» Aug. 2 ₂ , 3 ₂ , 4, 5 ₂ , 9, 10 ₂ , Aug. 11 ₂ , 12 ₂ , 13 ₂ , 16	B. A. 15, 419
	Arcetri	» Aug. 17, 18, 19, 20 ₂ , 21	A. N. 149, 275
	412 Elisabetha	Arcetri	» Aug. 17, 18, 19, 20 ₂ , 21

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414 [1896 CN]	Toulouse	1896 Febr. 11 ₂ , 13, 14	B. A. 16, 179
416 Vaticana	Arcetri	1898 Dec. 4, 5, 6, 7 ₂ , 10, 11, Dec. 12, 16, 17 ₂	A. N. 149, 275 B. A. 16, 311
	Marseille	» Dec. 20, 21	B. A. 16, 311
	Padua	» Dec. 8, 11, 15 ₃ , 16 ₂ , 17 ₂	A. N. 149, 363
	Rom	» Dec. 5, 6	» » 149, 307
	Teramo	» Dec 5	» » 149, 49
	Toulouse	1897 Sept. 1 ₂	B. A. 16, 335
417 [1896 CT]	Wien	1896 Juni 2	A. N. 150, 31
419 [1896 CW]	Marseille	1899 Febr. 10, 11, 15, 16	B. A. 16, 278
422 Berolina	Berlin (Urania)	1896 Oct. 5*, 8*	A. N. 148, 140
423 [1896 DB]	Vassar Coll.	1899 Mai 8, 9, 10, 11	A. J. 20, 76
424 [1896 DF]	Wien	1898 Mai 15, 17	A. N. 149, 291
426 [1897 DH]	Nizza	1897 Sept. 1, 2, 4	B. A. 15, 464
427 [1897 DJ]	Nizza	» Sept. 2	» » 15, 465
429 [1897 DL]	Nizza	» Nov. 24, 29, Dec. 17, 22	» » 15, 465
430 [1897 DM]	Nizza	» Dec. 21, 27, 1898 Jan. 21, 22	» » 15, 465
431 [1897 DN]	Nizza	» Dec. 22, 27, 1898 Jan. 18, Jan. 22	» » 15, 465
432 [1897 DO]	Nizza	» Dec. 21, 27, 1898 Jan. 11, Jan. 17, 18, 22	» » 15, 465
433 Eros	Harvard Coll. (Phot.)	1893 Dec. 19, 27, 1894 Jan. 1, Febr. 16, April 16, 18, 1896 April 6, Juni 4, 5 ₂	A. N. 148, 189
	Harvard Coll. (Phot.)	» Oct. 28, 30, 31, Nov. 26, Dec. 23, 1894 Jan. 8, 19, 25, Jan. 30, Febr. 5, Mai 19, 1896 Juni 29, 30	» » 148, 271
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434 Hungaria	Besançon	1898 Sept. 14, 15, 16	» » 148, 205, B. A. 16, 69
	Heidelberg	» Sept. 11, 13 ₂ , 14 ₂ , 15	A. N. 148, 45
	Mt. Hamilton	» Nov. 12, 13, 18, Dec. 1, 2	A. J. 19, 194
	Rom	» Sept. 19, Oct. 20	A. N. 149, 307
	Wien	» Sept. 14, 16, 20, 21, 25, Oct. 4, 10, Nov. 7, 10, 1899 Jan. 6	» » 149, 291
435 [1898 DS]	Heidelberg	» Sept. 11, 14	» » 148, 45
	Wien	» Sept. 16, 25, Oct. 4, Nov. 9	» » 149, 293
436 [1898 DT]	Heidelberg	» Sept. 13 ₂ , 14, 15	» » 148, 45
	Wien	» Sept. 20, 21, 25, Oct. 4, 10, Oct. 21, Nov. 9, 10	» » 149, 293
437 [1898 DP]	Marseille	» Juli 22, 23, 25, 26	B. A. 15, 468

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437 [1898 DP]	Marseille	1898 Aug. 11, 12, 13, 16, 17, 18,	
		Aug. 19, 20, 22, 24, 25, 26,	
		Aug. 27, 29, 30, 31, Sept. 1,	
		Sept. 2, 3, 5, 6, 7, 8, 9,	
		Sept. 10, 12, 13, 14, 15,	
		Sept. 16, 17, 19, 20, 21,	
		Sept. 22, 23	B. A. 15, 469
	Nizza	» Juli 18, 20, 22	» » 15, 465
	Rom	» Juli 23	A. N. 149, 305
438 [1898 DU]	Nizza	» Nov. 8*	» » 147, 399,
			A. J. 19, 156
		Rom	» Nov. 12, 13, 15
		Arcetri	» Nov. 14, 16, 17
	Rom	» Nov. 16	» » 148, 217
439 Ohio	Mt. Hamilton	» Oct. 14	» » 149, 307
		» Oct. 14, 15, 16, 18, 19 .	» » 148, 31
		» Oct. 14, 15, 16, 18, 19,	A. J. 19, 146
		Nov. 3, 6, 7, 9, 14, 16 .	A. N. 150, 307
440 [1898 EC]	Mt. Hamilton	» Oct. 14	» » 148, 31
		» Oct. 14, 15, 16, 19, 20 .	A. J. 19, 146
		» Oct. 14, 15, 16, 19, 20 ₂ ,	
		Nov. 3, 9, 10, 17, 18, Dec. 7,	
441 [1898 ED]	Arcetri	» Dec. 12, 13	A. N. 150, 307
		» Dec. 16 ₂ , 17, 18	» » 148, 95
		» Dec. 12	» » 148, 217
	Besançon	» Dec. 12	» » 148, 303,
			C. R. 128, 218
	Nizza	» Dec. 9*	A. N. 148, 63,
			A. J. 20, 16
442 [1899 EE]	Padua	» Dec. 15, 16 ₂ , 17, 18, 21 ₃ ,	
		Dec. 22	A. N. 149, 363
		» Dec. 11, 12	» » 148, 95
		» Dec. 13, 16, 18, 22	» » 149, 307
		» Dec. 15, 16	» » 148, 333
443 [1899 EF]	Heidelberg	» Febr. 28*	» » 148, 375
		» Febr. 17, 18, 19	» » 148, 333
		» Febr. 28, März 2	» » 149, 15
		» Febr. 18	» » 148, 333
		» Febr. 17, 18, 19	» » 148, 333
444 [1899 EL]	Heidelberg	» Febr. 27*	» » 148, 375
		» April 2, 3, 4, 5, 7, 8	C. R. 128, 1033
444 [1899 EL]	Algier	» März 31 ₂	A. N. 149, 47,
			A. J. 20, 72
		Marseille	» März 31 ₂ , April 1
			C. R. 128, 854

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444 [1899 <i>EL</i>]	Marseille . . .	1899 April 3, 4, 5, 6, 7, 10, 11, April 12, 15	C. R. 128, 103r
	Marseille . . .	» April 27, 28, 29, 30 . . .	B. A. 16, 279
	Paris	» April 1	C. R. 128, 853
	Rom	» April 8, 10	A. N. 149, 143
	Toulouse . . .	» April 14	C. R. 128, 976
1898 <i>DV</i>	Heidelberg . .	1898 Nov. 6*, 13*, 19*	A. N. 148, 45, A. J. 19, 156
	Heidelberg . .	» Nov. 6, 19	A. N. 148, 95
1898 <i>DW</i>	Heidelberg . .	» Nov. 6*, 13*, 17*, 19* . . .	» » 148, 45, A. J. 19, 156
	Heidelberg . .	» Nov. 12, 19	A. N. 148, 95
	Wien	» Nov. 19	» » 149, 293
1898 <i>DX</i>	Heidelberg . .	» Nov. 6, 13, 19	» » 148, 95
1898 <i>DY</i>	Heidelberg . .	» Nov. 13*, 17*, 18*, 20* . . .	» » 148, 45, A. J. 19, 156
	Heidelberg . .	» Nov. 13, 17	A. N. 148, 95
1898 <i>DZ</i>	Heidelberg . .	» Nov. 17*, 19*, 20*	» » 148, 45, A. J. 19, 156
	Heidelberg . .	» Nov. 17, 20	A. N. 148, 95
1898 <i>EA</i>	Heidelberg . .	» Nov. 13, 19	» » 148, 95
1899 <i>EM</i>	Berlin (Urania)	1899 April 5*	» » 149, 63, A. J. 20, 72
	Heidelberg . .	» Juli 17*	A. N. 150, 109
unbekannt ¹⁾	Berlin (Urania)	1898 Jan. 19*	» » 148, 142

¹⁾ Als 418 [1896 *OV*] aufgeführt.

Die mit einem Sternchen (*) bezeichneten Daten beziehen sich auf nur genäherte Positionsangaben.

474 NACHWEISUNGEN ÜBER DIE KL. PLANETEN.

(433) EROS.

Beobachtungsort	Datum der Beobachtung	Publication
1898 August.		
Algier . . .	23, 24, 26, 27	A. N. 148, 213, B. A. 16, 66
Besançon . . .	17, 18, 19, 20, 25, 26, 27	» » 16, 68, A. N. 148, 205
Düsseldorf . . .	21, 22, 26	» » 148, 381
Hamburg . . .	19, 20, 21	» » 149, 151
Marseille . . .	16, 17, 18, 19, 20, 22, 24, 25, 26, 27, 30, 31	B. A. 15, 420
München . . .	18 ₂ , 19 ₃ , 21 ₃ , 22 ₃ , 25 ₃ , 26 ₄ , 27 ₄	A. N. 149, 277
1898 September.		
Algier . . .	6, 8 ₂	A. N. 148, 213, B. A. 16, 66
Arcetri . . .	5, 6, 7 ₂ , 8 ₂ , 9 ₂ , 10, 11, 13 ₂ , 14 ₂ , 15, 16, 17, 18, 19, 20 ₂ , 22, 23	A. N. 148, 157
Besançon . . .	6 ₂ , 7 ₂ , 8 ₂ , 9 ₂ , 10, 13, 14, 15	» » 148, 205, B. A. 16, 68
Bethlehem . . .	6, 8, 10, 11, 12, 13, 16, 17, 18	A. J. 19, 111
Bordeaux . . .	7, 8, 9, 13, 14, 15, 18, 19, 20, 21, 22	C. R. 127, 473
Charlottesville . . .	23 ₂ , 24, 25, 26, 27, 28 ₃ , 29 ₂ , 30	A. J. 20, 31
Denver . . .	12 ₃ , 13 ₃ , 14 ₃ , 16 ₃ , 17 ₃ , 19 ₃ , 22 ₃ , 23 ₃ , 26 ₃ , 29	» » 20, 49
Düsseldorf . . .	6, 7, 10, 16, 17	A. N. 148, 381
Genf . . .	6, 7 ₂ , 8 ₂ , 9, 10, 13, 14, 15, 16, 17, 18, 19, 20 ₂ , 21, 22, 23, 24	» » 148, 119
Greenwich . . .	20, 21, 23	M. N. 59, 16, 398
Hamburg . . .	5 ₂ , 6, 7 ₂ , 8, 10, 11, 15	A. N. 149, 151
Jena . . .	8, 9	» » 148, 69
Königsberg . . .	7, 10 ₂ , 11, 12 ₃ , 14 ₂ , 15, 18, 19, 25, 26, 28	» » 150, 215
Leipzig . . .	8 ₂ , 9 ₃ , 10 ₃ , 14 ₃ , 15 ₂ , 17 ₂	» » 148, 299
Madison . . .	24, 26, 27, 29	A. J. 19, 170
Marseille . . .	1, 2, 3, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 19, 20	B. A. 15, 420
Marseille . . .	21, 23, 24, 28	» » 16, 121
Mt. Hamilton . . .	6 ₂ , 7, 9, 10, 11, 12 ₂ , 18, 23, 27, 28	A. J. 20, 62
München . . .	2 ₃ , 5 ₄ , 6 ₄ , 7 ₄ , 8 ₄ , 9 ₄ , 10 ₄ , 14 ₄ , 15 ₄ , 16 ₄ , 17 ₄ , 18 ₄ , 20 ₄ , 21 ₄ , 22 ₃ , 23, 26, 27 ₂	A. N. 149, 279
Oxford (Radcl.) . . .	6	M. N. 59, 387
Rom . . .	21	A. N. 149, 307
Straßburg . . .	19 ₂ , 23 ₂ , 29 ₂	» » 148, 59
Teramo . . .	7, 9, 13	» » 149, 49
Toulouse . . .	8 ₂ , 9 ₂ , 14	C. R. 127, 1000
Washington . . .	11, 12, 13	A. J. 19, 147, 196
Wien . . .	12, 14, 16	A. N. 149, 291
1898 October.		
Algier . . .	7 ₂ , 10 ₂ , 21 ₂ , 22	A. N. 148, 213, B. A. 16, 66

(433) EROS. (Fortsetzung.)

Beobachtungsort	Datum der Beobachtung	Publication
1898 October (Fortsetzung.)		
Charlottesville .	12, 13, 22 ₃ , 24, 28 ₃ , 31	A. J. 20, 31
Denver	3 ₃ , 4 ₃ , 5 ₃ , 6 ₃ , 7 ₂ , 10 ₂ , 11 ₂ , 13 ₂ , 14 ₂ , 17 ₂ , 19 ₂ , 21 ₃ , 24 ₂ , 25 ₄ , 27 ₅ , 29 ₃ , 31 ₃	» » 20, 49
Genf	5, 10	A. N. 148, 119
Greenwich . . .	3	M. N. 59, 16, 398
Königsberg . .	4, 10, 12, 13, 14, 15, 19, 31	A. N. 150, 215
Leipzig	3 ₂ , 9 ₂	» » 148, 301
Madison	4, 11, 14, 28, 31	A. J. 19, 170
Marseille . . .	4, 6, 7, 8, 10, 12, 13, 19, 20, 21	B. A. 16, 121
München	3 ₃ , 4 ₃ , 5 ₂ , 10 ₂ , 14 ₂ , 18 ₂	A. N. 149, 281
Rom	8	» » 149, 307
Strafsburg . . .	20, 27, 29	» » 148, 109
Teramo	10, 11, 24, 26, 27	» » 149, 49
Wien	20, 21.	» » 149, 291
1898 November.		
Arcetri	11, 12 ₄ , 13, 15, 16, 17	A. N. 148, 215
Charlottesville .	3 ₇ , 7 ₃ , 14 ₆	A. J. 20, 31
Denver	1 ₃ , 2 ₃ , 3 ₂ , 4 ₂ , 5 ₂ , 14 ₃ , 15 ₃ , 16 ₃ , 18 ₃	» » 20, 50
Greenwich . . .	3	M. N. 59, 16, 398
Königsberg . . .	2, 4, 7, 8, 22	A. N. 150, 215
Leipzig	6 ₂ , 7, 8 ₂ , 12 ₃ , 13 ₂	» » 148, 301
Madison	2, 3, 6, 10, 11, 15	A. J. 19, 170
Mt. Hamilton . .	5, 6, 7, 10, 11, 13	» » 20, 62
Paris	10, 11, 17, 18	C. R. 127, 805
Strafsburg . . .	2	A. N. 148, 109
Strafsburg . . .	18 ₂ , 19	» » 148, 173, 149, 191
Teramo	13	» » 149, 49
Vassar Coll. . .	7, 11, 12, 15	A. J. 20, 29
Washington . . .	1, 11, 20	» » 19, 164, 196
Washington . . .	16	» » 20, 13
Wien	7, 9	A. N. 149, 291
1898 December.		
Denver	5 ₃ , 6 ₃ , 9 ₃ , 10 ₃ , 12 ₃ , 13 ₃ , 14 ₃ , 15 ₃ , 16 ₃ , 17 ₄ , 21 ₃ , 23 ₃ , 26 ₄ , 27 ₃ , 28 ₃ , 31 ₃	A. J. 20, 51
Greenwich . . .	7, 9	M. N. 59, 89, 398
Königsberg . . .	7 ₂ , 16 ₂ , 17, 19	A. N. 150, 215
Leipzig	5 ₂ , 7	» » 148, 301
Madison	1, 3, 4, 6, 7, 11, 25, 31	A. J. 19, 170
Mt. Hamilton . .	9, 10, 11, 12, 21, 22, 23, 27	» » 20, 62
Rom	11	A. N. 149, 307
Strafsburg . . .	7, 22	» » 149, 191

(433) EROS. (Fortsetzung.)

Beobachtungsort	Datum der Beobachtung	Publication
1898 December. (Fortsetzung.)		
Teramo . . .	1, 2, 20	A. N. 149, 49
Washington . . .	1, 5, 9, 23	A. J. 19, 196
Washington . . .	9	» » 20, 13
Wien	8, 14	A. N. 149, 291
1899 Januar.		
Denver	2 ₃ , 3 ₃ , 4 ₃ , 5 ₃ , 6 ₃ , 7 ₃ , 9 ₃ , 13 ₃ , 14 ₃ , 17 ₃ , 18 ₃ , 19 ₃ , 20 ₃ , 23 ₃ , 31	A. J. 20, 51
Greenwich . . .	10, 25, 26, 27	M. N. 59, 166, 398
Königsberg . . .	11 ₂ , 25	A. N. 150, 215
Leipzig	6 ₂ , 9 ₂ , 10	» » 148, 301
Mt. Hamilton . .	3, 5, 20, 23, 25, 27, 28, 29, 30	A. J. 20, 62
Strafsburg . . .	9	A. N. 149, 191
Washington . . .	1, 2	A. J. 19, 196
Wien	6	A. N. 148, 217, 149, 291
1899 Februar.		
Denver	1 ₃ , 6 ₄ , 9 ₃ , 11 ₃ , 14 ₃ , 16 ₂ , 18 ₃ , 23 ₃ , 27 ₄	A. J. 20, 52
Greenwich . . .	2, 22 ₂ , 24 ₂ , 25, 27 ₂ , 28 ₂	M. N. 59, 398
Königsberg . . .	6, 8 ₂ , 11	A. N. 150, 217
Mt. Hamilton . .	6, 7 ₂ , 8 ₂ , 9, 10 ₂ , 11 ₃ , 13 ₂ , 15, 16, 20, 21	A. J. 20, 62
Strafsburg . . .	4, 10 ₂	A. N. 149, 345
1899 März.		
Denver	1 ₃ , 9 ₄ , 11 ₃ , 14 ₂ , 15 ₃ , 18 ₄ , 23, 28 ₄	A. J. 20, 53
Greenwich . . .	5 ₂ , 9, 11, 14 ₂ , 24 ₂ , 27 ₂ , 31	M. N. 59, 398
Königsberg . . .	1	A. N. 150, 217
Mt. Hamilton . .	5, 11	A. J. 20, 62
Strafsburg . . .	11, 13 ₂ , 16, 17 ₂	A. N. 149, 345
1899 April.		
Denver	3 ₄ , 6 ₄	A. J. 20, 53
Denver	7 ₃ , 10 ₃ , 13 ₃ , 15 ₃ , 20 ₃ , 21 ₂ , 22 ₃ , 26 ₃ , 27 ₃	» » 20, 103
Königsberg . . .	3, 4, 10	A. N. 150, 217
Mt. Hamilton . .	4, 7, 10, 12, 14 ₂ , 19, 20	A. J. 20, 62
1899 Mai.		
Denver	3 ₃ , 4 ₃ , 5 ₃ , 10 ₄ , 11 ₄ , 16 ₃ , 17 ₂ , 18 ₃	A. J. 20, 103
Mt. Hamilton . .	4, 5, 9	» » 20, 62

B. Berechnungen.

(Bei den mit einem Sternchen (*) bezeichneten Ephemeriden sind die Planeten-Oerter ausführlicher angegeben.)

Nr. und Name	Ort	Gegenstand
	der Publication	
24 Themis . . .	A. N. 149, 207 .	Elemente, Ephemeride*.
188 Menippe . . .	B. A. 16, 38 . .	Bahnbestimmung.
258 Tyche . . .	A. N. 149, 143 .	Elemente, Ephemeride*.
265 Anna . . .	» » 150, 15 .	Elemente, Ephemeride.
303 Josephina . . .	» » 150, 109 .	Elemente, Ephemeride*.
306 Unitas . . .	» » 149, 303 .	Elemente, Ephemeride*.
334 Chicago . . .	» » 149, 123 .	Elemente, Ephemeride.
337 Devosa . . .	B. A. 16, 321 .	Elemente.
338 Budrosa . . .	» » 15, 414 .	Bahnbestimmung, Ephemeride.
346 Hermentaria . . .	A. N. 148, 317 .	Bahnbestimmung, Ephemeride.
347 Pariana . . .	B. A. 16, 149 .	Bahnbestimmung.
	» » 16, 154 .	Ephemeride*.
358 [1893 K] . . .	» » 16, 41 .	Elemente.
366 Vincentina . . .	» » 16, 143 .	Bahnbestimmung.
	» » 16, 148 .	Ephemeride*.
367 [1893 AA] . . .	A. J. 20, 46 .	Elemente, Ephemeride.
375 [1893 AL] . . .	A. N. 150, 337 .	Bahnbestimmung, Ephemeride.
390 [1894 BC] . . .	B. A. 16, 43 . .	Bahnbestimmung, Ephemeride.
392 Wilhelmina . . .	A. N. 150, 311 .	Ephemeride.
425 [1896 DC] . . .	» » 150, 79 .	Ephemeride.
427 [1897 DJ] . . .	B. A. 16, 60 . .	Bahnbestimmung.
429 [1897 DL] . . .	» » 16, 323 .	Elemente, Ephemeride.
433 Eros . . .	A. N. 147, 335 .	Elemente.
	» » 147, 363 .	Elemente.
	» » 147, 397 .	Elemente.
	» » 148, 27 .	Elemente, Ephemeride.
	C. R. 127, 806 .	Elemente, Ephemeride.
	A. N. 148, 63 .	Ephemeride.
	» » 148, 143 .	Elemente.
	A. J. 20, 61 . .	Elemente.
	A. N. 148, 159 .	Ephemeride.
	» » 148, 191 .	Elemente, Ephemeride.
	» » 148, 271 .	Elemente.
	» » 148, 389 .	Ephemeride.
	A. J. 19, 112 . .	Ephemeride.
	» » 19, 120 . .	Elemente.
	» » 19, 147 . .	Elemente.
	» » 19, 148 . .	Elemente, Ephemeride.
	» » 19, 155 . .	Elemente, Ephemeride.
	» » 19, 161 . .	Elemente, Ephemeride.
	» » 20, 8 . . .	Elemente, Ephemeride.
	» » 20, 31 . . .	Ephemeride.

478 NACHWEISUNGEN ÜBER DIE KL. PLANETEN.

Nr. und Name	Ort der Publication	Gegenstand
434 Hungaria . . .	A. N. 147, 351 . . .	Provisorische Elemente, Ephemeride.
436 [1898 <i>DT</i>] . . .	» » 149, 125 . . .	Elemente.
438 [1898 <i>DU</i>] . . .	B. A. 16, 123 . . .	Elemente.
439 Ohio	A. J. 19, 146 . . .	Kreisbahn-Elemente, Ephemeride.
	A. N. 150, 309 . . .	Elemente.
440 [1898 <i>EC</i>] . . .	A. J. 19, 146 . . .	Kreisbahn-Elemente, Ephemeride.
	A. N. 148, 77, 127 . . .	Elemente, Ephemeride.
	» » 150, 309 . . .	Elemente.
441 [1898 <i>ED</i>] . . .	B. A. 16, 139 . . .	Provisorische Elemente.
442 [1899 <i>EE</i>] . . .	A. N. 149, 45 . . .	Provisorische Elemente, Ephemeride.
443 [1899 <i>EF</i>] . . .	» » 149, 45 . . .	Provisorische Elemente, Ephemeride.
444 [1899 <i>EL</i>] . . .	C. R. 128, 1031 . . .	Elemente.
	» » 128, 1211 . . .	Elemente, Ephemeride.
[1899 <i>DW</i>] . . .	A. N. 149, 127 . . .	Kreisbahn-Elemente.
[1899 <i>DY</i>] . . .	» » 149, 127 . . .	Kreisbahn-Elemente.
[1899 <i>DZ</i>] . . .	» » 149, 127 . . .	Kreisbahn-Elemente.
[1899 <i>EA</i>] . . .	» » 149, 127 . . .	Kreisbahn-Elemente.

Erläuterungen zu den Ephemeriden und Tafeln des Jahrbuchs für 1902.

Das Jahrbuch giebt die Oerter der Wandelsterne in zwei Gattungen von Coordinaten an, in Ekliptikal- und Aequatorial-Coordinaten.

Bei den Ekliptikal-Coordinaten ist im allgemeinen als Anfangspunkt der Sonnen-Mittelpunkt angenommen und eine feste Lage der Ekliptik und des Aequinoctiums zu Grunde gelegt.

Bei den Aequatorial-Coordinaten ist als Anfangspunkt der Erd-Mittelpunkt angenommen und die jedesmalige wahre Lage des Aequators und des Aequinoctiums zu Grunde gelegt.

Die Zeitangaben für die im Jahrbuch mitgetheilten Oerter sind überall, wo nicht ausdrücklich eine andere Zeit erwähnt wird, in mittlerer Berliner Sonnen-Zeit ausgedrückt. Die Lage des Berliner Meridians gegen diejenigen Meridiane, auf deren Zeitangaben sich die im Jahrbuch benutzten Sonnen-, Mond- und Planeten-Tafeln begründen, ist nach den neuesten Bestimmungen angenommen:

Berlin östlich von Paris um $44^m 13^s.88$,

Berlin östlich von Greenwich um $53^m 34^s.91$,

Berlin östlich von Washington (alte Sternw.) um $6^h 1^m 47^s.00$.

Der Anfang des Tages ist der Mittag; die Zählung der Stunden ist durchgängig bis 24 angenommen worden, so daß die Stunden unter 12 die Nachmittagsstunden desselben bürgerlichen Tages, die Stunden über 12, wenn man sie um 12 vermindert, die Vormittagsstunden des nächstfolgenden bürgerlichen Tages sind.

Das Jahrbuch enthält aufer den Angaben über die Zeit- und Festrechnung folgende

Hauptabschnitte:

	Seite		Seite
1) Reductions-Elemente	1	Erläut.	480
2) Sonnen-Ephemeride und rechtwinkelige Sonnen-Coordinaten	2	»	481
3) Mond-Ephemeride	42	»	482
4) Ephemeride für den Mond-Krater Mösting A.	82	»	484
5) Lage des Mond-Aequators und Angaben über die Mondbewegung	87	»	486

	Seite	Seite
6) Auf- und Untergang von Sonne und Mond in Berlin	89	Erläut. 486
7) Wahre geocentrische Oerter der Planeten: Mercur, Venus, Mars, Jupiter, Saturn, Uranus und Neptun	94	» 487
8) Heliocentrische Coordinaten der Planeten: Mercur, Venus, Erde, Mars, Jupiter, Saturn, Uranus und Neptun	144	» 488
9) Mittlere Oerter von 622 Fixsternen	149	» 488
10) Scheinbare Oerter von 450 Fixsternen und Besselsche Constanten für 172 Sterne	167	» 489
11) Reductions-Tafeln für die Bewegungen der Coordinaten-Systeme und die Aberration	312	» 490
12) Sonnen- und Mond-Finsternisse	338	» 492
13) Stern-Bedeckungen durch den Mond	347	» 495
14) Angaben über die Jupiter-Satelliten und den Saturns-Ring	356	» 500
15) Constellationen	363	» 502
16) Hülftafeln	366	» 503
17) Coordinaten der Sternwarten	377	» 504
18) Bahnelemente der kleinen Planeten	384	» 504
19) Oppositionsdaten der kleinen Planeten für 1900	408	» 505
20) Oppositions-Ephemeriden von 36 kleinen Planeten für 1900	417	» 505
21) Nachweisungen über die kleinen Planeten	456	» 506

1) Reductions-Elemente.

Die auf Seite 1 gegebene Uebersicht der Reductions-Elemente enthält für die mittleren Mittage von 10 zu 10 Tagen fortschreitend folgende Angaben:

1) Die mittlere Schiefe der Ekliptik, berechnet nach der Angabe von Newcomb (*Tables of the Motion of the Earth*, S. 10), nämlich:

$$\varepsilon = 23^{\circ} 27' 8''.26 - 0''.4685 (t - 1900 \text{ Jan. } 0).$$

2) Die scheinbare Schiefe der Ekliptik, entstanden aus der vorhergehenden unter Hinzufügung der Nutation in Schiefe, nämlich:

$$\begin{aligned} \Delta\varepsilon = & + 0''.5519 \cos 2 \odot + 0''.0092 \cos (\odot + 281^{\circ} 15') \\ & + 9''.210 \cos \Omega - 0''.0895 \cos 2 \Omega. \end{aligned}$$

Das kurzperiodische Glied

$$+ 0''.0884 \cos 2 \zeta$$

ist hier weggelassen, findet sich aber in der letzten Columnne der Sonnen-Ephemeride von Tag zu Tag aufgeführt.

3) Die Praecession in Länge, berechnet mit der Newcomb'schen Praecessions-Constante:

Jährliche Praecession in Länge für 1902: $50''.2568$.

4) Die Nutation in Länge, berechnet aus:

$$- 1''.2725 \sin 2 \odot + 0''.1478 \sin (\odot + 81^\circ 56')$$

$$- 17''.2318 \sin \Omega + 0''.2070 \sin 2 \Omega.$$

Die kurzperiodischen Glieder

$$- 0''.2038 \sin 2 \zeta + 0''.0676 \sin (\zeta - I'')$$

sind hier weggelassen, finden sich aber in der Sonnen-Ephemeride in der vorletzten Columne von Tag zu Tag aufgeführt.

Die angegebene Nutation entspricht dem Zeichen nach der Reduction von mittlerer Länge auf wahre.

5) Die Aberration der Sonne, mit der von der Pariser Conferenz angenommenen Constanten $20''.47$ berechnet.

6) Die Parallaxe der Sonne, mit der von der Pariser Conferenz angenommenen Constanten $8''.80$ berechnet.

2) Sonnen-Ephemeride.

Bei der Sonnen-Ephemeride, welche nach den Sonnentafeln von Newcomb (*Astr. Papers* Vol. VI, Part. I) berechnet ist, enthält die linke Seite diejenigen Angaben, welche bei der Beobachtung der Sonne gebraucht werden; ihre Epoche ist der mittlere Berliner Mittag.

Sie enthält aufer dem Datum des Monats und dem Wochentage in sieben neben einander stehenden Columnen:

1) Die Zeitgleichung oder den Unterschied zwischen wahrer und mittlerer Zeit.

2) Die scheinbare Rectascension der Sonne.

3) Die ersten Differenzen dieser Zahlenreihe.

4) Die scheinbare Declination der Sonne.

5) Die ersten Differenzen dieser Zahlenreihe.

6) Die Durchgangs-Dauer der Sonne in Sternzeit.

7) Den scheinbaren Halbmesser der Sonnenscheibe.

Bei der Rectascension und Declination ist die Aberration bereits angebracht, dieselben sind daher direct mit den Beobachtungen vergleichbar.

Gemäß den Beschlüssen der Pariser Conferenz sind die Nutationsglieder kurzer Periode hier ebenso wie bei den folgenden Planeten-Ephemeriden weggelassen.

Auf der rechten Seite stehen, ebenfalls mit der Epoche des mittleren Berliner Mittags, aufer dem Monats- und Jahrestage in acht Columnen neben einander:

- 1) Die Sternzeit im mittleren Mittage oder die wahre Rectascension der mittleren Sonne.
- 2) Die Länge der Sonne bezogen auf die mittlere Ekliptik und das mittlere Aequinoctium 1902.0 (annus fictus).
- 3) Die ersten Differenzen dieser Zahlenreihe.
- 4) Die Breite der Sonne bezogen auf die mittlere Ekliptik und das mittlere Aequinoctium 1902.0 (annus fictus).
- 5) und 6) Der Logarithmus des Radius vector der Sonne mit den Differenzen.
- 7) und 8) Die von der Mondlänge abhängigen Glieder der Nutation in Länge und Schiefe der Ekliptik, nämlich:

$$d\lambda = -0''.2038 \sin 2\zeta + 0''.0676 \sin (\zeta - \Gamma')$$

$$d\varepsilon = +0''.0884 \cos 2\zeta.$$

Die Coordinaten dieser Seite sollen bei Bahnrechnungen und dergleichen dienen, sie sind deshalb frei von Aberration, deren Berücksichtigung nur bei ihrer Anwendung zur Vorausberechnung von Finsternissen erforderlich wäre. Für diesen Fall findet man die Correction, die man von der Länge abziehen muß, in der vorletzten Columne der Seite 1.

Für die Berechnung des scheinbaren Sonnen-Halbmessers ist nach Professor Auwers 15' 59''.63 angenommen.

Auf Seite 22 — 41 folgen die rechtwinkligen Sonnen-Coordinaten von 12^h zu 12^h mittlerer Zeit, bezogen auf die mittlere Lage des Aequators und Aëquinoctiums für den Anfang des *annus fictus* 1902 (1902 Jan. 0.84).

Diese Coordinaten sind bekanntlich mit entgegengesetzten Zeichen die Coordinaten des Erdmittelpunktes gegen den Sonnenmittelpunkt als Ursprung, bezogen auf eine *X*-Axe, deren positive Richtung in einer durch den Sonnenmittelpunkt parallel der Ebene des Erd-Aequators gelegten Ebene durch die Linie des aufsteigenden Knotens der Erdbahn in dieser heliocentrischen Aequatorial-Ebene bestimmt wird, deren positive *Y*-Axe in der heliocentrischen Aequatorial-Ebene 90° in der Richtung der Erdbewegung von der *X*-Axe absteht, und deren positive *Z*-Axe parallel der Erdaxe nach der nördlichen Seite gerichtet ist.

Neben den Coordinaten stehen von Tag zu Tag die Reductionen derselben auf das mittlere Aequinoctium des benachbarten Jahrzehnt-Anfanges 1900.0 in Einheiten der letzten Decimale; sie dienen zur bequemen Verbindung der Coordinaten-Angaben aufeinanderfolgender Jahre.

3) Mond-Ephemeride.

Von den die Mond-Ephemeride enthaltenden Seiten 42—81 geben die links liegenden Seiten für mittleren Mittag und Mitternacht:

- 1) Die scheinbare Rectascension des Mondes mit den Differenzen.
- 2) Die scheinbare Declination des Mondes mit den Differenzen.
- 3) Den log. Sinus der Aequatorial-Horizontal-Parallaxe des Mondes mit den Differenzen.
- 4) Den scheinbaren Halbmesser des Mondes.

Unterhalb dieser Columnen sind die Epochen der Mondphasen angegeben.

Auf den rechts liegenden Seiten befinden sich die Angaben, welche die Meridian-Beobachtungen des Mondes und ihre Reduction unterstützen sollen, sowie nach dem Verzeichniß des *Nautical Almanac* die genäherten Oerter der sogenannten Mondsterne, deren correspondirende Beobachtung in Verbindung mit dem Monde besonders die Genauigkeit der Längenbestimmungen aus Mondculminationen, sowie auch der Parallaxenbestimmungen aus Zenithdistanzen erhöhen soll.

Die abgekürzte Ortsangabe der Mondsterne, welche für die Aufsuchung derselben hinreicht, wird als genügend betrachtet werden können, wenn man bedenkt, daß der Hauptzweck der Mondstern-Angaben die Herbeiführung correspondirender Beobachtungen derselben ist, daß aber bei solchen die Oerter dieser Sterne eliminirt werden, und daß bei einem Mangel an correspondirenden Beobachtungen entweder eine sehr sorgfältige und selbständige Discussion der für die Mondposition zu Grunde zu legenden Sternörter oder die Beziehung derselben auf die Meridian-Beobachtungen benachbarter Fundamental-Sterne eintreten muß.

Es enthalten auf diesen Seiten:

- Die 1. Columne den Monatstag und die Bezeichnung des oberen oder unteren Berliner Meridian-Durchganges des Mondes durch *O* und *U*.
- Die 2. Columne die Mittl. Berl. Zeit des Meridian-Durchganges des Mondes.
- Die 3. Columne die Rectascension des Mondes zur Zeit der Culmination.
- Die 4. Columne die halbe Durchgangs-Dauer in Sternzeit berechnet mit Hülfe des geocentrischen Halbmessers des Mondes und der stündlichen Bewegung in AR.
- Die 5. Columne die stündliche Bewegung in Rectascension incl. der Veränderung des Halbmessers, hier für die besonderen Zwecke nicht auf eine Stunde mittlerer Zeit sondern auf das Zeitintervall bezogen, welches zwischen zwei der Epoche benachbarten Durchgängen des Mondes durch zwei um eine Stunde von einander abstehende Meridiane verfließt.
- Die 6. Columne die Declination des Mondes zur Zeit der Culmination.
- Die 7. Columne die stündliche Bewegung in Declination (auf dasselbe Intervall bezogen wie die Bewegung in AR.).

Die 8., 9., 10. Columne die Rectascension, Declination und Gröfse der allgemein angenommenen Mondsterne oder Vergleichsterne des Mondes nach dem *Nautical Almanac*. Bei der Auswahl derselben ist das Princip befolgt, dafs von den jedesmal zu benutzenden 4 Sternen die beiden dem Monde folgenden am folgenden Tage als die beiden vorangehenden beobachtet werden. Es gehören also zu jeder oberen Culmination (Berlin) die 4 aufeinanderfolgenden Sterne, deren erster auf gleicher Linie mit der Angabe des zugehörigen Monatstages steht.

Dieselben Seiten enthalten endlich unterhalb jener Columnen die Epochen des Perigaeums und Apogaeums des Mondes.

Von den Mondörtern ist nur eine geringe Anzahl für die Finsternisse direct nach den *Tables de la lune, construites d'après le principe Newtonien de la gravité universelle par P. A. Hansen*, mit Berücksichtigung von *Newcomb's Corrections to Hansen's Tables of the Moon*, berechnet worden; für die Berechnung der Ephemeride ist dagegen die ausführliche Mond-Ephemeride des *Nautical Almanac* benutzt worden, die der Redaction in Folge Uebereinkommens mit der *Nautical Almanac Office* in den Aushängebogen zur Verfügung stand.

4) Ephemeride für den Mondkrater Mösting A.

Die Ephemeride des Mondkraters Mösting A Seite 82—86 dient nach Vorschlag von Professor Franz zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Meridianbeobachtung des Kraters, zweitens zur Bestimmung der selenographischen Coordinaten weiterer Punkte der Mondoberfläche durch mikrometrischen Anschluß derselben an Mösting A auferhalb des Meridians.

Sie gilt für die obere Culmination in Berlin und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die physische Libration, die Unterschiede $\alpha_{\zeta} - \alpha_k$ in Rectascension und $\delta_{\zeta} - \delta_k$ in Declination zwischen der Mondmitte und dem Krater vom Erdmittelpunkt aus gesehen mit ihren Differenzen, endlich den Logarithmus des Sinus der Aequatorialhorizontal-Parallaxe p_k des Kraters, welche hier von der des Mondes p_{ζ} zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Meridianbeobachtungen des Kraters interpolire man $\alpha_{\zeta} - \alpha_k$, $\delta_{\zeta} - \delta_k$ und $\log \sin p_k$ unter strenger Berücksichtigung der zweiten Differenzen mit dem Argument »Länge des Beobachtungsortes von Berlin« so, dafs westliche Länge positiv, östliche Länge negativ genommen wird. Dann befreie man die beobachtete Declination des Kraters von der Höhenparallaxe, indem man diese in der bekannten

Weise mit dem Argument der wahren Kraterdeclination (nicht Monddeclination), unter Benutzung von p_k , berechnet. Bringt man alsdann $\alpha_{\zeta} - \alpha_k$ und $\delta_{\zeta} - \delta_k$ an die Beobachtung an, so hat man die AR. und Decl. des Mondes, wie sie vom Erdmittelpunkt aus beobachtet wären, für die Beobachtungszeit, d. h. für die Culmination des Kraters (nicht des Mondes).

Für Beobachtungen außerhalb des Meridians interpolire man $\alpha_{\zeta} - \alpha_k$, $\delta_{\zeta} - \delta_k$ und $\log \sin p_k$ mit dem Argument »westliche Länge von Berlin + westlicher Stundenwinkel des Mondes«. Man findet dann die gesehene, mit Parallaxe behaftete Differenz $\alpha'_{\zeta} - \alpha'_k$ offenbar, indem man die mit p_{ζ} und dem Mondort berechnete Parallaxe $\alpha'_{\zeta} - \alpha_{\zeta}$ des Mondes in AR. zu $\alpha_{\zeta} - \alpha_k$ addirt und dann die mit p_k und dem Kraterort berechnete Parallaxe $\alpha'_k - \alpha_k$ des Kraters in AR. subtrahirt. Also

$$\alpha'_{\zeta} - \alpha'_k = \alpha_{\zeta} - \alpha_k + (\alpha'_{\zeta} - \alpha_{\zeta}) - (\alpha'_k - \alpha_k) = \alpha_{\zeta} - \alpha_k + \Delta\alpha$$

und ebenso

$$\delta'_{\zeta} - \delta'_k = \delta_{\zeta} - \delta_k + (\delta'_{\zeta} - \delta_{\zeta}) - (\delta'_k - \delta_k) = \delta_{\zeta} - \delta_k + \Delta\delta.$$

Man erhält aber die gesuchten kleinen Correctionen $\Delta\alpha$ und $\Delta\delta$, welche stets unterhalb 0^s.7 und 10'' bleiben, sicherer aus folgenden Differentialformeln:

$$\Delta\alpha = A_{\alpha}(\alpha_{\zeta} - \alpha_k) + A_{\delta}(\delta_{\zeta} - \delta_k) + A_p(1 + 2 A_{\alpha})(p_{\zeta} - p_k)$$

$$\Delta\delta = D_{\alpha}(\alpha_{\zeta} - \alpha_k) + D_{\delta}(\delta_{\zeta} - \delta_k) + D_p(1 + 2 D_{\delta})(p_{\zeta} - p_k),$$

wo, wenn wir kurz a , δ , p statt α_{ζ} , δ_{ζ} , p_{ζ} schreiben,

$$A_{\alpha} = \rho \cos \varphi' \sin p \sec \delta \cos(\alpha - \Theta)$$

$$A_{\delta} = \rho \cos \varphi' \sin p \sec \delta \sin(\alpha - \Theta) \operatorname{tg} \delta$$

$$A_p = \rho \cos \varphi' \cos p \sec \delta \sin(\alpha - \Theta)$$

und $D_{\alpha} = \rho \sin p \sin(\Theta - \alpha) \cos \varphi' \sin \delta$

$$D_{\delta} = \rho \sin p [\cos(\Theta - \alpha) \cos \varphi' \cos \delta + \sin \varphi' \sin \delta]$$

$$D_p = \rho \cos p [\cos(\Theta - \alpha) \cos \varphi' \sin \delta - \sin \varphi' \cos \delta] \quad \text{sind,}$$

oder auch $D_{\alpha} = \rho \sin p \sin z \sin \eta \sin \delta$

$$D_{\delta} = \rho \sin p \cos z$$

$$D_p = \rho \cos p \sin z \cos \eta.$$

Hier sind ρ der Erdradius, φ' die geocentrische Breite, Θ die Sternzeit des Beobachtungsortes, z die geocentrische Zenithdistanz des Mondes und η der zugehörige parallaktische Winkel.

Verbindet man die so erhaltenen scheinbaren Abstände zwischen der Mondmitte und Mösting A mit mikrometrischen Messungen zwischen Mösting A und einem zweiten Krater, so erhält man die scheinbare Lage des letzteren gegen die Mondmitte und kann hieraus mit Hülfe von α'_{ζ} und δ'_{ζ} , mit der auf Seite 87 angegebenen Lage des Mond-Aequators

und mit der gleichfalls angegebenen physischen Libration die selenographische Länge und Breite des zweiten Kraters berechnen.

Die Ephemeride ist nach der in den *Astron. Nachrichten* Nr. 3241 § 5 angegebenen Methode mit Benutzung der Mond-Transit-Ephemeride des *Nautical Almanac* berechnet worden.

5) Lage des Mond-Aequators. Mondbewegung.

Die beiden Tafeln auf Seite 87 und 88 dienen neben dem oben angegebenen Zweck zur Berechnung der optischen Libration des Mondes (in Verbindung mit der Tafel auf Seite 366—367) und zur Ermittlung des Winkels C , welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Declinationskreis bildet. Die Formeln für die Berechnung der Libration sind auf Seite 367 vollständig aufgeführt.

Wird bezeichnet mit

- i . . . die Neigung des Mond-Aequators gegen den Erd-Aequator,
- A . . . das Stück des Mond-Aequators vom aufsteigenden Knoten im Erd-Aequator bis zum aufsteigenden Knoten in der Ekliptik,
- Ω' . . . der aufsteigende Knoten des Mond-Aequators im Erd-Aequator,
- Ω . . . der aufsteigende Knoten des Mond-Aequators in der Ekliptik,
- α, δ . . Rectascension und Declination des Mittelpunktes der Mondscheibe, gesehen vom Beobachtungsort aus,
- l', b' . . die Libration in selenocentrischer Länge und Breite,
- l_0 . . . die mittlere Länge des Mondes,
- $l = l' + l_0$,

so wird

$$\sin C = -\sin i \frac{\cos(l + A - \Omega)}{\cos \delta} = -\sin i \frac{\cos(\alpha - \Omega')}{\cos b'}$$

wobei C vom nördlichen Theil des Declinationskreises nach Osten positiv gerechnet wird.

Bei der Berechnung von i, A, Ω' ist die Neigung des Mond-Aequators gegen die Ekliptik nach Prof. J. Franz (*Astron. Nachr.* Nr. 2917 und 3241) zu $J = 1^\circ 31' 22''.1$ angenommen worden. Die Angaben sind frei von physischer Libration.

Die in der ersten Columne der Tafel auf Seite 88 aufgeführte Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik dient auch zur Berechnung der Nutationsausdrücke.

6) Auf- und Untergang von Sonne und Mond für Berlin.

Auf Seite 89—93 sind die Zeiten der Auf- und Untergänge von Sonne und Mond für Berlin in mittlerer Berliner Zeit aufgeführt, welche als Grundlage für die Kalender-Rechnungen benachbarter Orte häufig Verwendung finden.

7) Planeten-Ephemeriden.

Von Seite 94—143 folgen die wahren geocentrischen Oerter der Haupt-Planeten. Dieselben sind für Mercur, Venus und Mars von Tag zu Tag, für Jupiter, Saturn, Uranus und Neptun von 2 zu 2 Tagen gegeben. Ueberall sind den mit der Beobachtung zu vergleichenden Angaben die ersten Differenzen beigefügt, die für eine exacte Interpolation zweckmäßiger erscheinen, als die Angabe der Bewegung in 1^h Länge.

Sämmtliche geocentrische Coordinaten beziehen sich auf die jedesmalige wahre Lage des Aequators und des Aequinoctiums, sind aber frei von der *Aberratio fixarum*, so dafs man bei ihrer Vergleichung mit den Beobachtungen bekanntlich von den Beobachtungszeiten die jedesmalige Aberrations- oder Licht-Zeit abziehen mufs, dann aber mit den so corrigirten Epochen im Jahrbuche diejenigen wahren Richtungen findet, welche mit den beobachteten scheinbaren, nur von Parallaxe befreiten, direct vergleichbar sind. Dieses Verfahren ist bis zu den Grenzen unseres Planetensystems ausreichend genau, da der Maximal-Fehler desselben nahezu $0''.001 \Delta$ beträgt, also selbst bei Neptun $0''.03$ nicht übersteigt.

Die »Log. Δ « überschriebene Columne giebt den für Berechnung der Licht-Zeit und der Parallaxe erforderlichen Werth des Log. der Entfernung der Planeten vom Erdmittelpunkte in der bekannten Einheit ausgedrückt.

Die vorletzte Columne jeder Seite enthält unter der Bezeichnung »Oestlicher Stundenwinkel« des Planeten einen genäherten Werth für die mittlere Zeit seiner oberen Culmination. Die letzte Columne giebt den halben Tagbogen für die im Berliner Mittag stattfindende Declination. Aus beiden Reihen von Werthen wird man alles Erforderliche für Auf- und Untergang leicht ableiten können. *Zeit + hoh. Winkel = Declin.*

Als Grundlage für die Berechnung haben neben den Newcomb'schen Sonnentafeln gedient:

- für Mercur, Venus und Mars die Newcomb'schen Tafeln in *Astronomical Papers*, Vol. VI, Part 2, 3 und 4,
- für Jupiter und Saturn die Tafeln von G. W. Hill in *Astronomical Papers*, Vol. VII, Part 1 und 2,
- für Uranus und Neptun die Tafeln von Newcomb in *Smithsonian Contributions to Knowledge*.

Die Reductionen auf den wahren Ort sind durchweg mit den im Jahrbuch allgemein angewandten Praecessions- und Nutationsausdrücken berechnet, über welche unten Näheres folgt. Die von der Mondlänge abhängenden Nutationsglieder sind durchweg weggelassen.

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

für Mercur Halbmesser	. . . . .	3'' .34
» Venus	»	8 .78
» Mars	»	4 .68
» Jupiter	» (Aequatorial)	99 .8
	» (Polar)	. . 92 .6
» Saturn	» (Aequatorial)	81 .4
	» (Polar)	. . 73 .4
» Uranus	»	34 .7
» Neptun	»	45

8) Heliocentrische Oerter.

Auf die geocentrischen Ephemeriden der Haupt-Planeten folgen Seite 144—148 die heliocentrischen Coordinaten derselben, und zwar der Log. des Radius vector, die Länge in der Bahn und die Reduction auf die Ekliptik, die Breite und bei den Planeten Jupiter, Saturn, Uranus und Neptun noch der Winkel B_0 , welchen der Radius vector mit derjenigen Bahnebene macht, für welche die bei jedem Planeten unter den Columnen hinzugefügten Angaben über Ω und i gelten. (Siehe die ausführlichere Erläuterung im Jahrbuch für 1880 und 1881.)

Da diese heliocentrischen Coordinaten hauptsächlich zur Berechnung der speciellen Störungen dienen sollen, so ist die Genauigkeit und Ausführlichkeit ihrer Angaben dem ihrem Zweck entsprechenden Mafse angepasst worden.

Hinzugefügt sind endlich aufser Ω und i noch die Angaben betreffend die Masse der Planeten, und zwar:

- für Mercur, Venus und (Erde + Mond) nach Newcomb (*Tables of the Sun*, Seite 12),
- für Mars nach A. Hall,
- für Jupiter nach Newcomb,
- für Saturn nach Bessel,
- für Uranus und Neptun nach Hill (*Tables of Saturn*, Seite 167).

9) Mittlere Oerter von 622 Fixsternen.

Das Verzeichniß der mittleren Stern-Oerter für 1902.0 auf Seite 149 bis 166 ist eine ungeänderte Wiedergabe der Auwers'schen Fundamental-Kataloge in Publ. XIV und XVII der Astronomischen Gesellschaft. Auch die Struve'sche Praecessions-Constante, die sonst im Jahrbuch durch die Newcomb'sche ersetzt ist, ist hier zur Ueber-

tragung auf die Epoche 1902.0 beibehalten worden, bez. bei den angegebenen Eigenbewegungen ist diese Constante vorausgesetzt. Diese Mafregel erschien im Interesse der Continuität erforderlich und wird eingehalten werden bis zur definitiven Annahme des neuen, in der Bearbeitung begriffenen Fundamental-Kataloges von Auwers, von wo an dann das Berliner Jahrbuch sein Fixstern-Verzeichnifs auch über den ganzen südlichen Himmel ausdehnen wird.

Um jedoch schon jetzt in jenen Fällen, wo genauere Oerter wünschenswerth sind, als sie der alte Fundamental-Katalog naturgemäß bieten kann, den Bedürfnissen der Praxis entgegenzukommen, sind im Anhang I die vorläufigen Verbesserungen des Fundamental-Katalogs aus *Astron. Nachr.* Nr. 3508/09 für 1902.0 abgedruckt und werden auch in den folgenden Jahren gegeben werden. Diese Verbesserungen sind der Redaction in dankenswerthester Weise von Herrn Prof. Auwers zur Verfügung gestellt worden.

Die Uebertragung von 1875.0 auf 1902.0 ist für die Sterne über 70° Decl. durch mechanische Quadratur ausgeführt worden.

Die Angaben für Sirius und Procyon auf Seite 154, 155 sind vermittelst der Elemente IV, bezw. V der citirten Abhandlungen abgeleitet.

10) Scheinbare Oerter von 450 Fixsternen.

Ueber die Auswahl derjenigen Sterne, für welche Ephemeriden scheinbarer Oerter gegeben werden, ist das Jahrbuch für 1883 einzusehen.

Die scheinbaren Oerter der Sterne (Seite 167—307) sind für die neun weniger als 10° vom Pol entfernten Sterne von Tag zu Tag, für die übrigen 441 Sterne von 10 zu 10 Tagen angegeben und beziehen sich auf die Epoche derjenigen oberen Culmination im Berliner Meridian, welche an dem nebenstehenden wahren Sonnentage stattfindet. Der Uebergang einer Culmination auf den vorangehenden wahren Sonnentag ist dadurch bezeichnet, daß das Datum des Tages, an welchem zwei obere Culminationen stattfinden, vor den Rectascensionen aufgeführt ist.

Am Fuß der Ephemeride für jeden Stern ist der mittlere Ort desselben für den Anfang des Jahres wieder angegeben, aufser bei den Polsternen, für welche an dieser Stelle der Betrag der täglichen Aberration in Rectascension für die Culminationszeit steht. Hierbei liegt der auch auf Seite 312 angegebene Zahlenwerth $0^{\circ}.0214$ zu Grunde.

Bei den von 10 zu 10 Tagen fortschreitenden Ephemeriden sind die scheinbaren Oerter auf $0^{\circ}.01$ in Rectascension und $0''.1$ in Declination angesetzt, und es ist dabei erstrebt worden, in der Berechnung beider Coordinaten die Fehlergrenze von $0^{\circ}.005$, beziehungsweise $0''.05$ nicht merklich zu überschreiten. Die kurzperiodischen Mondglieder der Nutation sind bei der Berechnung weggelassen worden und müssen in den Fällen,

wo ihre Mitnahme wünschenswerth erscheint, nach den Formeln auf Seite 312 und mit Hülfe der Tafel auf Seite 324 u. 325 besonders berechnet werden.

Bei den von Tag zu Tag berechneten scheinbaren Oertern der neun dem Pole nächsten Sterne sind, im Einklange mit der Bedeutung der Hunderttheile der Zeitsecunde für die Rectascensionen dieser Sterne, die Declinationen auf Hunderttheile der Bogensecunde angegeben; bei diesen Sternen sind auch die kurzperiodischen Mondglieder der Nutation angebracht, mit Ausnahme von f' .

Die der Berechnung der scheinbaren Oerter zu Grunde gelegten Constanten der Praecession, Nutation und Aberration entsprechen den Beschlüssen der Pariser Conferenz und sind aus der Formelübersicht Seite 312 zu ersehen. Man sehe hierüber auch den nächsten Abschnitt ein.

Der Betrag der jährlichen Parallaxe ist bei folgenden drei Sternen, bei denen dieselbe ansehnlich und ihrem Werthe nach hinreichend verbürgt ist, nämlich bei

α Canis maj.	mit der Parallaxe	$0''.38$
α Lyrae	» » »	0.18
β Cygni	» » »	0.51

bereits berücksichtigt.

Als Ergänzung der Sammlung scheinbarer Stern-Oerter dienen die Bessel'schen Constanten $a, b, c, d, a', b', c', d'$ (Seite 308—311) für diejenigen 172 Sterne, von welchen keine Ephemeriden berechnet sind. Es ist zu diesen Constanten, deren Anwendung aus den auf Seite 312 gegebenen Formeln erhellt, nur noch zu bemerken, daß die Einheit bei a, b, c, d die Zeitsecunde ist.

11) Reductions-Tafeln.

Auf die scheinbaren Oerter der Sterne folgt Seite 312 eine Zusammenstellung der Formeln, nach welchen die Reductions-Constanten der darauf folgenden Tafeln berechnet sind. Hierbei sind die Praecessions-Größen nach Newcomb, die Nutations-Constante $9''.21$ und die Aberrations-Constante $20''.47$ gemäß den Beschlüssen der Pariser Conferenz zu Grunde gelegt.

Für den Gebrauch der Reductions-Tafel für die Sterntage 1902 (Seite 313) ist erläuternd hinzuzufügen, daß derjenige absolute Moment, in welchem die mittlere Sonnenlänge 280° oder die Rectascension der mittleren Sonne = $18^h 40^m$ ist, als die Anfangsepoche des astronomischen annus fictus und als der bequeme Ausgangspunkt der Zählung aller scheinbaren Bewegungen der Sterne, die von der Sonnenlänge abhängig sind, angenommen ist. An diesen Moment reihen sich die Epochen der

Tafel (Seite 313) nach Sterntagen. Die Sonne erreicht jene Stellung um $14^h 42^m.5$ Sternzeit Berlin ^(am mittleren Tage) 1902 Jan. 0. Die Angaben der ersten Columne »Datum in mittlerer Zeit« drücken, von dieser Anfangsepoche beginnend, in Hunderthteilen des mittleren Tages von Berlin die Zeitpunkte aus, welche der Folge der Sternzeiten entsprechen, und für welche die Zahlen der Tafel gelten. Man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch mittleres Datum, Sternzeit und Längendifferenz mit Berlin, leicht und sicher übergehen können.

Diese Tafel dient für Berechnung von Stern-Ephemeriden für die Epochen der Meridiandurchgänge, ohne Berücksichtigung der von der Mondlänge abhängigen Nutationsglieder. Wegen ihrer logarithmischen Form ist sie zur Interpolation nicht geeignet. Man wird deshalb mit Vortheil die Interpolation erst nach der Summirung der einzelnen Correctionen, welche unmittelbar für die Epochen der Tafeln berechnet werden können, eintreten lassen.

Die zweite Tafel (Seite 314—323) giebt nach den Anweisungen der Seite 312 für die mittlere Mitternacht Berlin die bekannten Constanten zur Reduction auf den scheinbaren Ort und zwar unter Weglassung der von der Mondlänge abhängigen Nutationsglieder, da diese Tafel überwiegend zu Reductionen bei Vergleichen von Beobachtungen mit Ephemeriden dienen soll. In der letzten Columne ist jedoch, um die Mondglieder in derselben Form hinzufügen zu können, unter dem Zeichen ζ das Argument »mittlere Mondlänge« für die Tafeln der Seiten 324 und 325 angeführt, wobei die Peripherie in 1000 Theile getheilt gedacht ist.

Die Tafeln für die schnell veränderlichen Mondglieder der Nutation (Seite 324 und 325) enthalten die Hilfsmittel für die Reductionen auf den scheinbaren Ort in derselben Form wie die vorangehenden beiden Tafeln.

Denselben liegen folgende Formeln zu Grunde:

$$A' = -0.00405 \sin 2 \zeta + 0.00134 \sin (\zeta - 76^\circ 5')$$

$$B' = -0.0884 \cos 2 \zeta$$

und

$$f' = -0''.1865 \sin 2 \zeta + 0''.0618 \sin (\zeta - 76^\circ 5')$$

$$g' \sin G' = -0.0884 \cos 2 \zeta$$

$$g' \cos G' = -0.0811 \sin 2 \zeta + 0.0269 \sin (\zeta - 76^\circ 5').$$

Die hauptsächlichste Vernachlässigung dabei liegt in der für das ganze Jahr constanten Annahme des für 1902.5 berechneten Perigaeums der Mondbahn: $I' = 76^\circ 5'$.

In der Tafel Seite 326—335 sind die Mondglieder mit den Reductions-Constanten vereinigt worden. Um den Gebrauch dieser Tafel zu erleichtern, sind jedesmal an derjenigen Stelle, wo die Werthe einer der vier Constanten A, B, C, D durch Null gehen, neben den logarith-

mischen Angaben die Numeri der betreffenden Constante beigesetzt. Im Uebrigen gilt hinsichtlich der Einrichtung der Tafel dasselbe, was oben über den Gebrauch der Tafel Seite 313 gesagt wurde.

12) Sonnen- und Mond-Finsternisse.

Die Sonnen-Finsternisse sind in der Form berechnet worden, welche Hansen (Theorie der Sonnen-Finsternisse und verwandten Erscheinungen. Abhandlungen der K. Sächsischen Gesellschaft der Wissenschaften IV) der Behandlung dieses Problems gegeben hat.

Die Bezeichnungen und Einführungen von Hansen sind auch im Jahrbuch bei der tabellarischen Aufstellung der Rechnungsergebnisse durchgängig beibehalten worden, so daß es genügen wird, zu ihrer Erläuterung auf die erwähnte Abhandlung zu verweisen (siehe besonders die übersichtliche Anführung der einzelnen Formeln von Seite 434 an).

Es wird hier nur erforderlich sein, in aller Kürze anzugeben, auf welche Weise man mit Hülfe der auf Seite 338, 340 und 343 gegebenen Hansen'schen Elemente der Sonnen-Finsternisse Zeit und Umstände der Finsternis für jeden Ort innerhalb der Grenzcurven berechnen kann.

Der Ort sei gegeben durch seine (nach Osten gezählte) Länge von Berlin . . . λ , oder von Greenwich . . . $\lambda_0 = \lambda + 13^\circ 23' 7''$ und durch seine geographische Breite φ .

Man bilde zuerst $\tan \varphi_1 = (1 - c) \tan \varphi$, wo c die Abplattung der Erde ist, also $\log(1 - c) = 9.99855$ angenommen werden kann, sodann:

$$\begin{aligned} \xi &= \cos \varphi_1 \\ \eta &= (1 - c) \sin \varphi_1. \end{aligned}$$

Hierauf muß man für die Epoche des fraglichen Phaenomens, sei es nun erste und letzte äußere oder innere Berührung oder größte Phase, einen Näherungswerth der wahren Ortszeit annehmen.

Hierzu kann man die anderweitigen Angaben des Jahrbuches, insbesondere die eventuelle Angabe der Epochen des Eintrittes der größten Phase auf der Centrallinie zu Rathe ziehen. Ein für die erste Annäherung hinreichender und bequemer Näherungswerth der Ortszeit ist $\mu + \lambda$, wo μ die wahre Berliner Zeit der geocentrischen größten Phase ist. (Siehe Elemente der Finsternisse.)

Sei der Näherungswerth der Ortszeit t_0 , so bilde man mit Hülfe der in dem Elementen-Verzeichniß des Jahrbuchs gegebenen Werthe von $\gamma, \mu, n, u', f, \delta', g, G, k, K$, welche man beiläufig mit dem Argumente der wahren Berliner Zeit $\tau = t_0 - \lambda$ entnimmt, folgende Ausdrücke, welche als gemeinsame Grundlage der Annäherung für die Berechnung aller Phasen dienen können:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin (G + t_0)$$

$$m \cos M = (t_0 - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos (K + t_0)$$

$$m' \sin M' = -x \xi \sin g \cos (G + t_0)$$

$$m' \cos M' = n - x \xi \sin k \sin (K + t_0)$$

$$u_0 = u' - (\eta \sin \delta' + \xi \cos \delta' \cos t_0) \operatorname{tang} f$$

$$\text{wo} \quad x = \frac{15 \cdot 3600}{206265} \quad \lg x = 9.41797.$$

Bei der Entnahme von u' und f hat man für innere Berührungen u'_i und f_i , für äußere Berührungen u'_a und f_a zu wählen.

Hierauf berechnet man:

$$\sin \chi' = \frac{m}{u_0} \sin (M + M')$$

$$t = t_0 - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u_0}{m'} \cos \chi'$$

wobei man, da zu $\sin \chi'$ ein negativer und ein positiver Werth von $\cos \chi'$ sich ergibt, zwei Werthe von t (zur ersten oder letzten Berührung gehörig) findet.

Mit jedem dieser beiden Werthe von t rechnet man nun in zweiter Annäherung, wobei die Elemente γ , μ , n , u' , f , δ' , g , G , k , K mit den wahren Berliner Zeiten $t - \lambda$ aus dem Elementen-Verzeichniß zu entnehmen sind:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin (G + t_0)$$

$$m \cos M = (t_0 - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos (K + t_0)$$

$$m' \sin M' = -x' \xi \sin g \cos [G + \frac{1}{2} (t_0 + t)]$$

$$m' \cos M' = n - x' \xi \sin k \sin [K + \frac{1}{2} (t_0 + t)]$$

$$u = u_0 + x' \xi \cos \delta' \operatorname{tang} f \sin \frac{1}{2} (t_0 + t) \frac{(t - t_0)}{15}$$

$$\text{wo} \quad x' = 30 \cdot \frac{\sin \frac{1}{2} (t - t_0)}{t - t_0};$$

$(t - t_0)$ ist hierbei stets in Graden auszudrücken.

Mit den so gefundenen m , m' , M , M' und u bildet man dann wieder

$$\sin \chi' = \frac{m}{u} \sin (M + M')$$

$$t = t_0 - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u}{m'} \cos \chi'.$$

Von den beiden Lösungen für t benutzt man bei der zweiten und den folgenden Näherungen für den Eintritt natürlich nur die zum Eintritt, ebenso bei den Näherungen für den Austritt die zum Austritt gehörige.

Die in zweiter oder dritter Näherung gefundenen Werthe t sind meistens schon genau genug die wahren Ortszeiten des gesuchten Eintritts oder Austritts, und die Positionswinkel (am Sonnenmittelpunkt von der Richtung zum Nordpol nach der Seite der wachsenden Rectascensionen oder nach Osten hin gezählt) der Eintritts- und Austritts-Punkte sind mit den beiden Werthen von χ' , die der Sinus ergiebt:

$$\vartheta = N' + M' - \chi',$$

wo N' aus dem Elementen-Verzeichnifs zu χ' entnehmen ist.

Um die Zeit der größten Phase zu berechnen, kann man zunächst die Werthe t_0 , m , m' , M , M' aus der obigen ersten Annäherung benutzen und damit bilden:

$$t_1 = t_0 - 15 \frac{m}{m'} \cos(M + M').$$

Mit dem so gefundenen Werthe t_1 bildet man für die Epoche $t_1 - \lambda$ wieder die Werthe der Elemente und berechnet damit in zweiter Annäherung die Werthe m , m' , M , M' , indem man in den Gleichungen der ersten Annäherung t_0 durchgängig mit t_1 vertauscht. Man hat dann den genaueren Werth der Ortszeit der größten Phase:

$$t = t_1 - 15 \frac{m}{m'} \cos(M + M')$$

und zur Controle für diese Zeit $M + M' = 90^\circ$ oder $= 270^\circ$, je nachdem der Mond-Mittelpunkt nördlich oder südlich vom Sonnen-Mittelpunkt vorbeigeht.

Zur Bestimmung der Gröfse der Verfinsternung hat man zugleich:

$$u = m,$$

welcher Werth bei centraler Verfinsternung $= 0$ wird.

Die Gröfse in Theilen des Durchmessers i findet man mit einer für diese rohe Angabe genügenden Näherung:

$$i = \frac{u'_a - u}{u'_a - u'_i} \dots$$

Die Angaben über die Hauptumstände der Sonnen - Finsternifs 1902 Oct. 30 (Seite 345 und 346) sind hauptsächlich zum Gebrauch für die innerhalb Deutschlands gelegenen Orte bestimmt, umfassen aber auch die nördlich und südlich an Deutschland sich anschließenden Ländergebiete. Der Gebrauch der Tafel ist unmittelbar aus deren Einrichtung und den an Ort und Stelle hinzugefügten Bemerkungen zu ersehen.

Zu den Angaben über die Mond-Finsternisse (Seite 339 und 342) sei bemerkt, dafs als Vergrößerungsfactor des Erdschattens $\frac{1}{50}$ angenommen wurde.

13) Stern-Bedeckungen durch den Mond.

Bei den Stern-Bedeckungen findet man zunächst (Seite 347 und 348) ein Verzeichniß derjenigen helleren Sterne (bis zur 5.5. Gröfse), welche im Laufe des Jahres 1902 für irgend einen Ort der Erdoberfläche vom Monde bedeckt werden können. Die Gröfsenangaben beruhen zum größten Theil auf den Schätzungen von Argelander und Heifs, in einzelnen wenigen Fällen sind außerdem für diese Angaben die Schätzungen Gould's benutzt; die mittleren Oerter sind nach den Angaben verschiedener Kataloge mit Berücksichtigung der Eigenbewegung auf 1902.0 reducirt.

Hierauf folgen in den zweispaltigen Seiten 349—354 die Hilfsmittel zur Berechnung der einzelnen Bedeckungen:

in der 1. Columne die Nr. des Sternes, welcher bedeckt wird, nach dem voranstehenden Verzeichnisse;

in der 2. Columne die Zeit der geocentrischen Conjunction in AR. von Stern und Mondmittelpunkt in Monatstagen, Stunden und Minuten;

in der 3., 4. und 5. Columne die Werthe folgender Ausdrücke:

$$q = \frac{\delta - D}{\pi} \quad p' = \frac{\Delta\alpha \cdot \cos \delta}{\pi} \quad q' = \frac{\Delta\delta}{\pi}$$

p' und q' in Einheiten der 4. Decimale.

In diesen Ausdrücken bedeutet:

δ die geocentrische Declination des Mondes für die geocentrische Conjunctions-Zeit T .

π die Aequatorial-Horizontal-Parallaxe des Mondes für die geocentrische Conjunctions-Zeit T .

D die Declination des Sternes.

$\Delta\alpha$ und $\Delta\delta$ die Veränderung der geocentrischen Rectascension und Declination des Mondes (bezw. vermindert um die Veränderung des Planetenortes bei den Planetenbedeckungen), für eine Stunde mittlere Zeit, gültig für die Conjunctions-Zeit T .

Nennt man ferner die geocentr. AR. des Mondes zur Zeit $T \dots \alpha$, die AR. des Sternes $\dots A$, den geocentr. scheinbaren Halbmesser des Mondes $\dots r$, die Längendifferenz des Beobachtungsortes gegen Berlin $\dots d$ (östlich positiv), die der mittleren Zeit $T + d$ entsprechende Sternzeit des Ortes $\dots \mu$, seine geocentrische Breite $\dots \varphi'$, seinen geocentrischen Radius vector in Theilen des Radius des Aequators $\dots \rho$; setzt man endlich (nach J. Peters *Astron. Nachr.* 3297)

$$\frac{r}{\pi} = k = 0.2725, \quad \log k = 9.4354$$

$$\text{und } \log(15.3609.9 \sin 1'') = \log \lambda = 9.41916,$$

so wird die Aufgabe der Vorausberechnung der Ortszeit etc. für die betreffende Bedeckung in Verbindung mit den obigen in den Tafeln gegebenen Werthen gelöst durch die Bildung folgender Ausdrücke und die Ausführung folgender Rechnungen (nach Bessel's Näherungsformeln im Jahrbuch für 1831):

$$\begin{aligned}
 p &= \frac{(\alpha - A) \cos \delta}{\pi} \quad (= 0 \text{ für das Zeitmoment } T) \\
 u &= \rho \cos \varphi' \sin (\mu - A) \\
 v &= \rho \sin \varphi' \cos D - \rho \cos \varphi' \cos (\mu - A) \sin D \\
 u' &= \lambda \rho \cos \varphi' \cos (\mu - A) &= \left(\frac{du}{dt} \right) \\
 v' &= \lambda \rho \cos \varphi' \sin (\mu - A) \sin D &= \left(\frac{dv}{dt} \right) \\
 m \sin M &= p - u & n \sin N &= p' - u' \\
 m \cos M &= q - v & n \cos N &= q' - v' \\
 & & (m \text{ und } n \text{ stets positiv}) \\
 \tau &= - \frac{m}{n} \cos (M - N).
 \end{aligned}$$

Die Momente des Eintritts und des Austritts T_1 und T_2 des Sternes werden dann gefunden, wenn noch $\cos \psi = \frac{m \sin (M - N)}{k}$ (wo ψ immer kleiner als 180°) berechnet ist:

$$T_1 = T + d + \tau - \frac{k}{n} \sin \psi \quad T_2 = T + d + \tau + \frac{k}{n} \sin \psi.$$

Die Oerter des Eintritts und Austrittes an der Mondscheibe in dem auf Seite 494 erläuterten Positionswinkel-Ausdruck sind:

$$Q_1 = N - 90^\circ + \psi \quad Q_2 = N - 90^\circ - \psi.$$

Die so gefundenen Resultate werden indess von der Wahrheit sehr entfernt sein können, wenn die Correction τ , welche zu der Ortszeit der geocentrischen Conjunction hinzugefügt werden muß, um die Ortszeit des auf den Beobachtungsort bezüglichen kleinsten Abstandes des Sterns vom Mondmittelpunkt zu finden, sehr beträchtlich ist; mit anderen Worten, wenn an dem betreffenden Ort zur Zeit $T + d$ der Stundenwinkel des Mondes groß ist. In diesem Falle nämlich ist hauptsächlich die Berechnung der der Zeit folgenden Veränderungen von u und v durch die ersten Differential-Quotienten u' und v' bei der starken Aenderung des Winkels $(\mu - A)$ nicht mehr genügend, sondern man muß jetzt die zweite Näherung ausführen, indem man für die Ortszeit $T + d + \tau$ oder die Berliner Zeit $T + \tau = T_0$ berechnet:

$$p_0 = \tau p' \quad q_0 = q + \tau q' \quad \mu_0 = \mu + \tau + \varepsilon \quad t = \mu_0 - A$$

(wo ε die Reduction des mittleren Zeitintervalles τ auf Sternzeit bedeutet)

$$\begin{aligned} u &= \rho \cos \varphi' \sin t \\ v &= \rho \sin \varphi' \cos D - \rho \cos \varphi' \sin D \cos t \\ u' &= \lambda \rho \cos \varphi' \cos t \\ v' &= \lambda \rho \cos \varphi' \sin D \sin t. \end{aligned}$$

Berechnet man mit diesen Werthen

$$\Delta\tau = -\frac{m}{n} \cos(M-N),$$

so wird diese Näherung schon ziemlich ausreichend sein, um die Zeiten und Oerfer des Eintrittes und Austrittes zu finden, wie oben:

$$\cos \psi = \frac{m \sin(M-N)}{k}$$

$$T_1 = T + d + \tau + \Delta\tau - \frac{k}{n} \sin \psi \text{ u. s. w.}$$

Bei der Berechnung der ersten Näherung, welche τ ergibt, wird es aber nicht nöthig sein, nach den ausführlichen Formeln bis

$$\tau = -\frac{m}{n} \cos(M-N)$$

zu rechnen, sondern man wird eine wesentliche Abkürzung und eine hinreichende Convergenz der Näherung erreichen, wenn man setzt:

$$\tau = \frac{u}{p' - u'} \cdot \dots \cdot$$

Wenn man hier noch statt des jedesmaligen, in den Elementen der Sternbedeckungen angegebenen p' den Durchschnittswerth 0.5646 annimmt, läßt sich der Ausdruck

$$\tau = \frac{\rho \cos \varphi' \sin(\mu - A)}{0.5646 - \lambda \rho \cos \varphi' \cos(\mu - A)}$$

für eine bestimmte Polhöhe φ' sehr leicht mit dem Argumente des Stundenwinkels $(\mu - A)$ in eine Hülftafel bringen, aus der man ohne Mühe den zur ersten Näherung hinreichenden Werth von τ bei westlichem Stundenwinkel positiv, bei östlichem negativ entnimmt.

Um für jeden Ort die erste Correction τ in Minuten ausgedrückt zu finden, kann die Tafel Seite 499 mit dem Horizontal-Argument » φ' « und dem Vertical-Argument »Stundenwinkel« dienen. Zur genäherten Bildung des letzteren Argumentes werden die Columnen der Mond-Ephemeride, welche »Mond im Meridian« überschrieben sind, von Nutzen sein können.

Für Orte, die nicht zu weit von Berlin entfernt sind, wird man aus dem für Berlin gegebenen Verzeichniß häufig schon ersehen können, ob eine Sternbedeckung stattfindet oder nicht; für näher gelegene Orte dürfte es in diesem Falle schon genügen, wenn man an die für Berlin gegebenen Zeiten des Ein- und Austrittes nur die Längendifferenz anbringt. Wenn nämlich die Sehne vom Punkte des Eintrittes zu dem des Austrittes dem Mondmittelpunkt nahe liegt, so müßte der Unterschied der Parallaxe

für Berlin und den andern Ort schon nahe den Betrag des Mondhalbmessers erreichen, wenn dort die Sternbedeckung nicht sichtbar sein sollte; für nahe liegende Orte sind die Wirkungen kleiner Unterschiede der Parallaxen gerade in diesem Falle sehr gering.

Um allgemein für irgend einen Ort, dessen östliche Länge d und dessen geocentrische Breite φ' näherungsweise bekannt sind, im voraus zu bestimmen, welche Sternbedeckungen sichtbar werden, hat man nach den im Jahrbuch gegebenen Elementen folgendes zu beachten:

Nach den Angaben der Mond-Ephemeride kennt man die Zeiten des Meridiandurchganges des Mondes (M) und seine Declination (δ), wie die Declination der Sonne. Nachdem man dann $(T + d)$ gebildet, wird man mit Hülfe einer Tafel der halben Tagbögen (wie sie in den Handbüchern der Nautik für alle Breiten sich berechnet finden) meist sogleich entscheiden können:

1) Ob Ein- und Austritt nach Sonnenuntergang und Mondaufgang oder vor Sonnenaufgang und Monduntergang stattfinden. Auf die Vergrößerung des Tagbogens durch die Bewegung des Mondes und auf die Parallaxe desselben ist vorläufig hierbei keine Rücksicht geboten, da die Wirkungen derselben in ihren mittleren Werthen mittelst der Tafel Seite 499 durch τ berücksichtigt werden. — Nur die Bedeckungen hellerer Gestirne (bis 2. Gr.) können auch bei Tage beobachtet werden. Die Beobachtung des Eintrittes schwächerer Sterne kurz nach Sonnenuntergang oder des Austrittes kurz vor Sonnenaufgang werden oft durch örtliche oder atmosphärische Verhältnisse gehindert.

Aus nachstehender Tafel, in welcher τ das Zeichen des Stundenwinkels hat, erhält man sogleich mit φ' und $T + d - M$ einen Näherungswerth für τ und hiermit den genäherteren Stundenwinkel $t = T + d - M + \tau$ und $q_0 = q + \tau q'$. Einen genähernten Werth von v erhält man durch Berechnung von

$$\sin(\varphi' - D) + \cos \varphi' \sin D (1 - \cos t) *).$$

2) Ist nun $q_0 - v < k$ ($k = 0.27$), so findet in der Regel eine Bedeckung statt, im entgegengesetzten Falle nicht. Da aber τ zuerst nur annäherungsweise bekannt ist, so muß, wenn $q_0 - v$ dem Werthe von k nur nahe kommt, eine ausführlichere Berechnung angestellt werden.

In vielen Fällen dieser Art genügen indess schon einige weitere Betrachtungen zur Entscheidung, ob der aus der Tafel entnommene Werth von τ dem wahren Werthe von τ sehr nahe kommt, größer oder kleiner ist. Man wird nämlich leicht entscheiden können, ob $(q' - v')$ sehr klein, positiv oder negativ wird, das Zeichen von $(q_0 - v)$ ist in den erwähn-

*) Um für einen Ort eine allgemeine, für diesen Zweck genügende Tafel der v zu bilden, hat man höchstens 5 Werthe von $\sin(\varphi' - D)$ und 2 Werthe von $\cos \varphi' \sin D$ auf 2 oder 3 Stellen zu berechnen.

φ'

t	0°	8°	16°	24°	32°	40°	48°	56°	64°	72°	t
0 ^h 0 ^m	0 ^m	0 ^m	0 ^m	0 ^m	0 ^m	0 ^m	0 ^m	0 ^m	0 ^m	0 ^m	0 ^h 0 ^m
20	17	17	16	15	13	11	9	7	5	3	20
40	34	33	32	29	26	22	18	14	10	7	40
1 0	50	49	47	43	38	32	26	21	15	10	1 0
20	65	63	60	55	49	42	34	27	20	13	20
40	78	76	73	67	59	51	42	33	24	16	40
2 0	89	88	84	77	68	59	49	38	28	19	2 0
20	98	97	93	85	76	66	55	43	32	21	20
40	106	105	100	93	83	72	60	48	36	24	40
3 0	112	110	106	98	89	77	65	52	39	26	3 0
20	116	115	110	102	93	81	68	55	41	28	20
40	119	117	113	105	96	84	71	57	43	29	40
4 0	120	119	114	107	97	86	73	59	45	31	4 0
20	120	118	114	107	98	87	74	61	46	32	20
40	119	117	113	107	98	87	75	61	47	33	40
5 0	117	115	112	106	97	87	75	62	48	33	5 0
20	114	113	109	103	95	86	74	62	48	33	20
40	110	109	106	101	93	84	73	61	47	33	40
6 0	106	105	102	97	90	82	71	60	47	33	6 0
20	102	101	98	93	87	79	69	58	46	32	20
40		96	93	89	83	76	67	56	44	32	40
7 0			88	84	79	72	64	54	43	31	7 0
20			83	80	75	68	61	51	41	30	20
40				75	70	64	57	49	39	28	40
8 0					65	60	53	46	37	27	8 0
20						55	49	42	34	25	20
40							45	39	32	23	40
9 0							41	36	29	21	9 0
20								32	26	19	20
40								28	23	17	40
10 0								24	20	15	10 0
20									17	12	20
40									13	10	40
11 0									10	7	11 0
20									7	5	20
40										3	40
12 0										0	12 0

ten zweifelhaften Fällen sehr bestimmt zu erkennen. Der Werth von u hängt für eine bestimmte Breite des Ortes nur von $\sin t$ ab und kann nie gröfser als $\cos \varphi'$ werden. — Hiernach gilt folgende Regel:

3) Sind $(q_0 - v)$ und $(q' - v')$ gleichnamig (beide positiv oder beide negativ), so mufs $p_0 - u = \tau p' - u$ negativ, sind jene ungleichnamig, so mufs $\tau p' - u$ positiv, ist $(q' - v')$ sehr klein (also das Vorzeichen noch unbestimmt), so mufs $\tau p'$ nahe gleich u werden, wonach man den Tafelwerth von τ sogleich um ein oder ein paar Zehntel der Stunde im richtigen Sinne verbessern kann.

Seite 355 enthält die Vorausberechnung der Stern-Bedeckungen für Berlin.

14) Jupiters-Trabanten und Saturns-Ring.

Auf die Stern-Bedeckungen folgen Seite 356—361 die Erscheinungen der vier älteren Jupiters-Trabanten, und zwar für sämtliche Trabanten zunächst die Angaben, aus denen man den Ort derselben, wie sie vom Mittelpunkte der Erde aus gesehen zu einer beliebigen Zeit in Bezug auf den Mittelpunkt der Jupiterscheibe erscheinen, herleiten kann, sodann die Zeitangaben für die Verfinsterungen derselben in dem Schattenkegel des Jupiter, welche von ihrem Stande gegen die Sonne abhängen. Bei den Verfinsterungen ist für die beiden inneren Trabanten die Zeit des Ein- oder Austritts, für die beiden äufseren Trabanten die Mitte der Verfinsterung und ihre halbe Dauer angegeben, alles in mittlerer Berliner Zeit und so, wie man die Erscheinung unmittelbar beobachten kann.

Für den geocentrischen Ort ist die Zeit der jedesmaligen scheinbaren oberen Conjunction des Trabanten mit der Erde, oder die Zeit, wann Jupiter sich in einer auf die Ebene der Trabantenbahn senkrecht gelegten Ebene zwischen der Erde und dem Trabanten befindet, angesetzt. Für jeden Trabanten sind in den Jahrbüchern bis zum Jahrgang 1871 Hülftafeln gegeben, welche für die mittlere synodische Umlaufszeit die Abscissen und Ordinaten des Ortes des Trabanten in seiner als kreisförmig angenommenen Bahn ergeben. Die Axe der Abscissen liegt senkrecht auf der Conjunctions-Ebene, beide Coordinaten natürlich in der Ebene der Trabantenbahn und ihr Anfangspunkt im Mittelpunkte der Jupiterscheibe. Die Einheit, in welcher die Coordinaten ausgedrückt sind, ist der Halbmesser des Jupiter. Die kreisförmige Bahn wird sich der Erde als eine Ellipse darstellen, deren kleine Axe in der Conjunctions-Ebene liegt, so dafs die Abscissen ungeändert bleiben, die Ordinaten aber in dem Verhältnifs der halben kleinen zur halben großen Axe vermindert werden müssen. Dieses Verhältnifs, und zwar $\frac{b}{a}$, ist neben den Zeiten der oberen Conjunction angesetzt. Wünscht man nun für eine

Zeit T , welche zwischen zwei auf einander folgende Zeiten t und t' der oberen Conjunction fällt, den Ort des Trabanten zu haben, so geht man mit dem Argument

$$T - t$$

in die Hülftafeln ein, nimmt daraus die entsprechenden Werthe von x und y' , und hat damit in Halbmessern des Jupiter den Stand des Trabanten, in Bezug auf den Mittelpunkt des Jupiter, gegeben durch

$$x \text{ und } y = y' \frac{b}{a}$$

wobei man die Zeichen von x , y' und $\frac{b}{a}$ zu berücksichtigen hat. Das Zeichen der letzten Gröfse deutet an, welche Fläche der Trabanten-Bahn man sieht, ob die obere (nördliche, dem Nordpole der Ekliptik zugewandte bei positivem $\frac{b}{a}$), oder die untere (südliche).

Die Zeichen von x und y sind so gewählt, daß für Berlin zur Zeit der Culmination der Trabant für den Anblick im Fernrohre bei positivem x rechts, bei negativem x links vom Jupiter erscheint; bei positivem y ist er nördlich und beim negativen y südlich von einer Linie, welche mit den Streifen parallel durch das Centrum des Jupiter gezogen werden kann.

Man könnte hier mit Leichtigkeit noch eine kleine Correction anbringen, wenn die Zwischenzeiten zweier auf einander folgenden oberen Conjunctionen beträchtlich von der mittleren synodischen Umlaufszeit verschieden wären. Wäre die letztere T' , so würde man mit dem Argument

$$(T - t) \frac{T'}{t' - t}$$

eingehen müssen. Ebenso findet man die Vorübergänge der Trabanten vor der Jupiterscheibe durch die Zeiten der unteren Conjunction, das Mittel aus den oberen, und die Ein- und Austritte der Trabanten in die Jupiterscheibe durch die Zeiten, zu denen

$$\sqrt{x^2 + y^2} = 1,$$

wobei man von der elliptischen Gestalt des Jupiter absieht. Indessen sind diese letzteren Momente nur als beiläufige Näherungen zu betrachten, da für diese feineren und genaueren Bestimmungen die Tafeln sich nicht einfach genug einrichten ließen, und aus gleichem Grunde wird die erst erwähnte Verbesserung wegen des Unterschiedes zwischen der wahren und mittleren synodischen Umlaufszeit unnöthig sein.

Statt auf die in den früheren Jahrbüchern gegebenen Elongations-Tafeln zurückzugreifen, kann man auch leicht die Coordinaten der Trabanten aus den folgenden Formeln berechnen:

$$\left. \begin{aligned} x &= (0.7559) \sin [203^\circ.40 \cdot t] \\ y' &= (0.7559) \cos [203^\circ.40 \cdot t] \end{aligned} \right\} \text{Trabant I.}$$

$$\left. \begin{aligned} x &= (0.9576) \sin [101^\circ.29 \cdot t] \\ y' &= (0.9576) \cos [101^\circ.29 \cdot t] \end{aligned} \right\} \text{Trabant II.}$$

$$\left. \begin{aligned} x &= (1.16017) \sin [50^\circ.235 \cdot t] \\ y' &= (1.16017) \cos [50^\circ.235 \cdot t] \end{aligned} \right\} \text{Trabant III.}$$

$$\left. \begin{aligned} x &= (1.40552) \sin [21^\circ.488 \cdot t] \\ y' &= (1.40552) \cos [21^\circ.488 \cdot t] \end{aligned} \right\} \text{Trabant IV.}$$

wo t die seit der letzt vorangehenden oberen Conjunction verfllossene Zeit bezeichnet, ausgedrückt in Tagen, und wo die eingeklammerten Zahlen Logarithmen bedeuten. Die zu Grunde gelegten Werthe der mittleren Entfernungen vom Jupiterscentrum (in Halbmessern der Jupiterscheibe) und die synodischen Umlaufszeiten sind beziehungsweise:

Trabant I.	5.70	|	1 ^d 18 ^h 28 ^m .6
» II.	9.07	|	3 13 17 .9
» III.	14.46	|	7 3 59 .6
» IV.	25.44	|	16 18 5 .1

Die Angaben für die Jupiters-Trabanten sind nach den Tafeln von Damoiseau und der Fortsetzung derselben von Pottier berechnet.

Ueber die Verbesserungen, deren die Damoiseau'schen Tafeln und die danach berechneten Verfinsterungen der Trabanten bedürftig sind, ist in dem Jahrbuche für 1880 Näheres an dieser Stelle mitgetheilt worden.

Auf Seite 362 stehen die Angaben für die Lage und Gröfse des Saturns-Ringes, deren Bedeutung dort hinzugefügt ist. Es liegen folgende Bestimmungen nach Bessel zu Grunde:

Aufsteigender Knoten des Saturns-Ringes auf der beweglichen Ebene der Ekliptik = $166^\circ 53' 8''.9 + 46''.462 (t-1800)$
 Neigung gegen dieselbe = $28 10 44 .7 - 0.350 (t-1800)$

Durchmesser des Ringes in der Entfernung, deren Logarithmus = 0.9796480 = $39''.311$.

15) Constellationen.

In der Uebersicht der Constellationen des Jahres 1902 (Seite 363 bis 365) sind die hauptsächlichsten Planeten-Constellationen gegeneinander und gegen Sonne, Mond und die Sterne 1. und 2. Gröfse, sowie die An-

gaben der Epochen, zu welchen sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeckungen der Planeten und der helleren Fixsterne (bis 2. Gröfse) durch den Mond auf der Erde überhaupt sind hier ebenfalls nochmals mit aufgeführt. — Die Conjunctionen der Planeten mit dem Mond und untereinander sind als Conjunctionen in AR. zu verstehen. Die Epochen der gröfsten Helligkeit der Venus sind nach derjenigen Formel für die Lichtstärke, welche G. Müller in der *Publ. des Astrophys. Obs. zu Potsdam*, Bd. VIII, Seite 197 ff. gegeben hat, berechnet.

Als Abkürzungen sind in dieser Uebersicht folgende gebraucht:

♈ Widder.	☉ Sonne.	
♉ Stier.	☾ Mond.	
♊ Zwillinge.	☿ Mercur.	♌ Conjunction.
♋ Krebs.	♀ Venus.	□ Quadratur.
♌ Löwe.	♁ Erde.	♍ Opposition.
♍ Jungfrau.	♂ Mars.	
♎ Waage.	♃ Jupiter.	♎ Aufsteigender } Knoten.
♏ Scorpion.	♄ Saturn.	♏ Niedersteigender }
♐ Schütze.	♅ Uranus.	
♑ Steinbock.	♆ Neptun.	
♒ Wassermann.		
♓ Fische.		

16) Hülftafeln.

Es folgt eine Reihe von häufig gebrauchten Hülftafeln.

1) Die Tafel zur Berechnung der Mondlibration (Seite 366 und 367) reproducirt (mit einer neuen Annahme über J berechnet) die bekannte Encke'sche Tafel (Berl. Jahrb. 1843); sie gestattet in Verbindung mit den Angaben der Seite 88 die rasche Berechnung der optischen Libration in selenocentrischer Länge und Breite nach den Formeln, die auf Seite 367 vollständig aufgeführt sind. Hierbei scheint die Kenntniß der wahren Längen und Breiten des Mondes nothwendig zu sein, welche im Jahrbuch vermisst werden; indessen werden die Längen und Breiten zu diesem Zweck mit merklichem Vortheil aus der mit Hinzufügung der Parallaxe berechneten AR. und Decl. abgeleitet, wozu man sich der gewöhnlichen Umwandlungsformeln oder, wenn nicht gröfsere Genauigkeit erfordert wird, der Encke'schen Hülftafel im Berl. Jahrbuch 1831 bedienen kann.

2) Eine Tafel mit Angabe der Bruchtheile des tropischen Jahres, die den nebenstehenden mittleren Daten (♁ Mittl. Zeit Berlin) entsprechen. (Seite 368 und 369.)

3) Eine Tafel für die Ermittlung eines Datums in der julianischen Periode. (Seite 370 und 371.)

4) Die Hülftafeln zur Verwandlung von mittlerer Zeit und Sternzeit (Seite 372 und 373).

5) Eine Tafel zur Verwandlung von Stunden, Minuten und Secunden in Decimaltheile des Tages und umgekehrt (Seite 374 und 375).

6) Eine Tafel mit Angabe der Hilfsgrößen zur Berechnung der Praecession von den hauptsächlichsten Sternkatalog-Epochen bis 1902.0 (Seite 376). Diese Tafel ist der Redaction von Prof. Kreutz gütigst zur Verfügung gestellt worden.

17) Coordinaten der Sternwarten.

Die Seiten 377 bis 383 enthalten die geographischen und geocentrischen Coordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben worden, wo sie sich einigermaßen sicher ermitteln ließen; zumeist sind sie dem Verzeichniß von Prof. Auwers im *Geographischen Jahrbuch* entnommen worden; bei der Berechnung von $\log \varrho$ sind sie berücksichtigt.

Die geocentrischen Coordinaten sind nach den Bessel'schen Erddimensionen berechnet.

Die Columne »Correction der Sternzeit« enthält für jeden Ort die Differenz: Sternzeit im mittleren Mittag minus Sternzeit im mittleren Berliner Mittag.

Das Verzeichniß hat im vorliegenden Jahrgang Aenderungen bezw. Zusätze für die Lage folgender Sternwarten erfahren:

Altenburg . . .	nach der <i>Centralzeitung für Optik und Mechanik</i> 1899 Nr. 13.
Bamberg . . .	nach den <i>Astronomischen Nachrichten</i> Nr. 3549.
Catania . . .	nach brieflicher Mittheilung.
Dublin . . .	nach brieflicher Mittheilung.
Heidelberg (Königst.)	nach den <i>Astronomischen Nachrichten</i> Nr. 3537, 3564.
Mare Island . .	nach den <i>Publications of the Astronomical Society of the Pacific</i> 1899 Vol. XI Nr. 68.
Perth . . .	nach brieflicher Mittheilung.

18) Bahnelemente der kleinen Planeten.

Die Seiten 384—407 enthalten die Bahnelemente der kleinen Planeten nach den neuesten der Redaction bekannt gewordenen Bestimmungen. Die unmittelbar den Namen folgenden Columnen geben auch das Datum der Opposition im Jahre 1900 und die Größe zur Zeit derselben.

Ferner sind gegeben zwei Columnen m_0 und g , welche zur Berechnung der Gröfse dienen. Es bedeutet m_0 die mittlere Gröfse, d. h. diejenige Gröfse, welche der Planet in seiner mittleren Entfernung a von der Sonne und der gleichzeitigen Entfernung $a-1$ von der Erde haben würde; ferner ist g eine Gröfse, welche aus m_0 nach der Formel

$$g = m_0 - 5 \cdot \log a (a - 1)$$

berechnet ist, und welche dazu dient, für einen beliebigen geocentrischen Ort des Planeten seine Gröfsenklasse M zu berechnen. Ist Δ die Entfernung des Planeten von der Erde, r seine Entfernung von der Sonne, so ist seine Gröfse

$$M = g + 5 (\log \Delta + \log r).$$

19) Oppositions-Daten der kleinen Planeten.

Von den 366 im Jahre 1900 und zu Anfang des Jahres 1901 stattfindenden Oppositionen der kleinen Planeten (1)–(440) ist Seite 408–416 eine übersichtliche Zusammenstellung, nach der Oppositionszeit geordnet, gegeben. In diesem Verzeichnisse ist neben dem Namen des Planeten der Tag der Opposition in AR., die Gröfse, der genäherte geocentrische Ort, die tägliche Bewegung an jenem Tage, der Logarithmus der Entfernung des Planeten von der Erde und auferdem das Jahr, in welchem der Planet zum letzten Male beobachtet wurde, angegeben.

Für 36 Planeten, welche in dem Oppositions-Verzeichnifs durch ein Sternchen (*) bezeichnet sind, enthalten die Seiten 417–455 ausführliche Ephemeriden; für etwa 110 weitere Planeten, deren Beobachtung im Jahre 1900 erwünscht erscheint, sind genäherte Oppositions-Ephemeriden in den Veröffentlichungen des Rechen-Institutes Nr. 11 und 12 gegeben.

20) Ausführliche Oppositions-Ephemeriden.

Diese Ephemeriden (Seite 417–455), die neben der Erleichterung der Beobachtungen einer künftigen Theorie der entsprechenden Planeten zur Grundlage dienen sollen, sind zum Theil im Rechen-Institut berechnet, zum Theil von den unterzeichneten Herren der Redaction gütigst zur Verfügung gestellt worden. Für die Lichtzeit ist hierbei angenommen: 498^s.4.

Zu der über fünf Monate ausgedehnten Ephemeride des Eros, welche Herr Prof. Millosevich freundlichst zur Verfügung gestellt hat, ist zu bemerken, daß die Gröfsenangaben ohne Rücksicht auf die Phase zu verstehen sind.

21) Nachweisungen über die kleinen Planeten.

Das die Nachweisungen über die kleinen Planeten enthaltende Verzeichniß (Seite 456—478) giebt, in zwei Abschnitten, eine Uebersicht der Stellen in den verbreitetsten Publicationsmitteln, wo A. Beobachtungen, B. Berechnungen in Bezug auf die kleinen Planeten sich vorfinden. Das Nähere ist aus dem Verzeichnisse selbst unmittelbar zu ersehen. — Die Uebersicht umfaßt Band 147, S. 289 bis Band 150, S. 344 incl. der *Astronomischen Nachrichten* (bezeichnet mit A. N.), die *Comptes Rendus des Séances de l'Académie des Sciences* Band 127, S. 457 bis Band 129, S. 510 (bezeichnet mit C. R.), das *Bulletin Astronomique* XV, S. 369 bis XVI, S. 368 (bezeichnet mit B. A.), das *Astronomical Journal* Band 19, S. 97 bis Band 20, S. 106 (bezeichnet mit A. J.) und die *Monthly Notices* der R. A. S. Band LIX (bezeichnet mit M. N.). Die angenommenen Grenzen dieser Uebersicht entsprechen den Zeitgrenzen der Publication 1898 Oct. 1 bis 1899 Oct. 1.

Zur Statistik der kleinen Planeten im Jahre 1899.

Seit dem Erscheinen des letzten Jahrbuches sind bis Ende December 1899 folgende 14 neue Planeten entdeckt, bezw. als solche erkannt worden, welche zu der Gruppe zwischen Erde und Jupiter gehören:

437	1898	<i>DP</i>	entdeckt	1898	Juli	16	} von Hrn. A. Charlois in Nizza.
438	»	<i>DU</i>	»	»	Nov.	8	
439		Ohio	»	»	Oct.	13	» » Coddington, Mt. Hamilton.
441	1898	<i>ED</i>	»	»	Dec.	8	» » A. Charlois in Nizza.
442	1899	<i>EE</i>	»	1899	Febr.	15	} » { Wolf und } in Heidel- { Schwassmann } berg.
443	»	<i>EF</i>	»	»	Febr.	17	
444	»	<i>EL</i>	»	»	März	31	» » Coggia in Marseille.
	»	<i>EX</i>	»	»	Oct.	2	» » Coddington, Mt. Hamilton.
	»	<i>ER</i>	»	»	Oct.	27	} » { Wolf und } in Heidel- { Schwassmann } berg.
	»	<i>ES</i>	»	»	Oct.	27	
	»	<i>ET</i>	»	»	Oct.	27	
	»	<i>EU</i>	»	»	Oct.	31	
	»	<i>EV</i>	»	»	Oct.	10	
	»	<i>EY</i>	»	»	Dec.	4	» » A. Charlois in Nizza.

Außer den oben genannten ist noch der Planet (1899 *EO*), über dessen Bahn wegen unzureichenden Beobachtungsmaterials indessen nichts ermittelt werden konnte, gefunden; die Nummer (440) hat der bereits im letzten Jahrgang aufgeführte Planet (1898 *EC*) erhalten.

Unter den 451 jetzt bekannten kleinen Planeten sind im gegenwärtigen Zeitpunkte (Ende December 1899), soviel der Redaction bekannt geworden ist :

301 Planeten, welche in mindestens 4 Oppositionen beobachtet sind, nämlich die Planeten (1) bis (270) mit Ausnahme von (99), (132), (149), (155), (156), (157), (163), (188), (193), (217), (220), (228), (255), (260) und (265) und außerdem:

(273) Atropos	(295) Theresia	(329) Svea	(375)
(275) Sapiaientia	(301) Bavaria	(334) Chicago	(376)
(276) Adelheid	(303) Josephina	(335) Roberta	(377)
(277) Elvira	(304) Olga	(336) Lacadiera	(379)
(278) Paulina	(306) Unitas	(345) Tercidina	(384) Burdigala
(279) Thule	(308) Polyxo	(346) Hermentaria	(385) Ilmatar
(282) Clorinde	(313) Chaldaeae	(347) Pariana	(386)
(283) Emma	(317) Roxane	(349) Dembowska	(387)
(284) Amalia	(318) Magdalena	(354) Eleonora	(389)
(287) Nephthys	(321) Florentina	(358)	(405)
(288) Glauke	(324) Bambergae	(363)	
(292) Ludovica	(326) Tamara	(371)	

37 Planeten, welche in 3 Oppositionen beobachtet sind, nämlich:

(149) Medusa . 17	(286) Iclea . . . 9	(344) Desiderata 6	(402) 4
(163) Erigone . 18	(291) Alice . . . 7	(348) May . . . 6	(403) 4
(217) Eudora . 16	(298) Baptistina . 7	(352) Gisela . . 5	(409) 4
(228) Agathe . 12	(305) Gordonia . 8	(356) 6	(412) Elisabetha . 4
(255) Oppavia . 11	(311) Claudia . . 7	(362) 6	(416) Vaticana . 3
(260) Huberta . 12	(312) Pierretta . 7	(366) 6	(419) 3
(265) Anna . . 10	(325) Heidelberga 7	(372) 6	(433) 3
(271) Penthesilea 10	(331) Etheridgea 7	(378) 5	
(272) Antonia . 10	(337) Devosa . . 6	(380) 5	
(274) Philagoria 10	(343) Ostara . . 6	(381) 5	

35 Planeten, welche nur in 2 Oppositionen beobachtet sind, nämlich:

(188) Menippe . 17	(307) Nike . . . 8	(351) Yrsa . . . 6	(391) Ingeborg . 5
(280) Philia . . 9	(322) Phaeo . . . 7	(364) 5	(397) 4
(281) Lucretia . 8	(332) Siri 7	(365) 6	(404) 4
(289) Nenetta . 8	(333) Badenia . . 6	(367) 5	(407) 4
(294) Felicia . . 8	(338) Budrosa . . 6	(369) Aëria . . . 6	(415) 4
(297) Caecilia . 8	(339) Dorothea . 6	(370) 5	(420) Bertholda . 3
(299) Thora . . 7	(340) Eduarda . 6	(373) 6	(423) 3
(300) Geraldina 8	(342) Endymion . 6	(374) 5	(424) 3
(302) Clarissa . 7	(350) 6	(390) 5	

78 Planeten, welche bisher nur in 1 Opposition beobachtet sind, nämlich:

(99) Dike . . . 25	(319) Leona . . 7	(388) 5	(417) 3
(132) Aethra . . 21	(320) Katharina 7	(392) Wilhelmina 5	(418) 3
(155) Scylla . . 20	(323) Brucia . . 6	(393) 5	(421) Zähringia . 3
(156) Xanthippe 20	(327) Columbia . 7	(394) 5	(422) Berolina . . 3
(157) Dejanira . 19	(328) Gudrun . . 7	(395) 5	(425) 3
(193) Ambrosia 16	(330) Adalberta . 6	(396) 5	(426) 2
(220) Stephania 14	(341) California . 6	(398) 4	(427) 2
(285) Regina . . 9	(353) 6	(399) 4	(428) 2
(290) Bruna . . . 8	(355) 6	(400) 5	(429) 2
(293) Brasilia . 8	(357) 6	(401) Ottilia . . 5	(430) 2
(296) Phaëtusa . 7	(359) 6	(406) 4	(431) 2
(309) Fraternitas 7	(360) 6	(408) 4	(432) 2
(310) Margarita . 7	(361) 7	(410) 4	(436) 2
(314) Rosalia . . 7	(368) 6	(411) 4	
(315) Constantia 6	(382) 5	(413) Edburga . . 4	
(316) Goberta . . 7	(383) 5	(414) 4	

und außerdem die Planeten (434), (435), (437) bis (444), (1899 *EX*), (1899 *ER*), (1899 *ES*), (1899 *ET*), (1899 *EU*), (1899 *EV*) und (1899 *EY*), deren zweite auf die Entdeckungs-Erscheinung folgende Opposition noch bevorsteht.

In den vorstehenden Angaben bezeichnen die hinter den Planetennamen befindlichen Ziffern die Anzahl der bisher, mit Einschluß der Entdeckungs-Erscheinung, stattgefundenen Oppositionen.

Anhang I.

Vorläufige Verbesserungen der Oerter des Fixstern-Verzeichnisses im Jahrbuch S. 149 ff. für 1902,0.

Nachstehende vorläufige Verbesserungen der Oerter der 622 Sterne des Fundamental-Kataloges innerhalb seines Systemes sind der Redaction des Jahrbuchs von Herrn A. Auwers zur Verfügung gestellt worden und werden bis zur Fertigstellung des definitiven Fundamental-Kataloges für jedes Jahr an dieser Stelle mitgetheilt werden. Die aufgeführten Werthe schliessen sich an die A. N. 3508/09 von Herrn Auwers mitgetheilten an, ausser für Sirius und Procyon, für welche hier sogleich die Reduction auf den hellen Stern mit der fortschreitenden Verbesserung zusammen in einer Zahl gegeben wird. Dabei sind an Stelle der oben p. 154, 155 aufgeführten Uebertragungen Werthe angewandt, welche für Sirius nach A. N. 3085 (El. V^a), für Procyon nach vorläufigen neuen elliptischen Elementen (B. Berl. Ak. 1898) angenommen wurden.

Name	Nr. des Fund.-Kat.	1902.0		Name	Nr. des Fund.-Kat.	1902.0	
		$\Delta\alpha$	$\Delta\delta$			$\Delta\alpha$	$\Delta\delta$
α Andromed.	1	+0.002	-0.21	ϑ Ceti	21	-0.013	-0.33
β Cassiopejæ	2	+0.005	-0.07	δ Cassiopejæ	20	-0.031	-1.20
22 Andromed.	337	-0.078	+0.56	α Ursæ min.	19	+0.072	-0.03
γ Pegasi	3	-0.013	+0.11	η Piscium	22	+0.019	+0.14
Br. 6	338	+0.790	+0.22	40 Cassiopejæ	347	+0.064	-0.19
ϵ Ceti	4	+0.019	+0.20	ν Persei	23	+0.001	-0.36
12 Ceti	339	-0.029	+0.07	43 Cassiopejæ	348	+0.006	-0.14
κ Cassiopejæ	5	-0.051	+0.45	ν Piscium	349	+0.021	-0.12
ζ Cassiopejæ	6	-0.021	-0.10	φ Persei	24	+0.020	+0.17
π Andromed.	7	+0.029	+0.02	τ Ceti	542	+0.036	+0.07
ϵ Andromed.	8	-0.012	+0.06	\omicron Piscium	25	+0.024	+0.06
δ Andromed.	9	-0.045	-0.39	Lac. ϵ Sculpt.	543	+0.028	+0.26
α Cassiopejæ	10	+0.069	-0.07	ζ Ceti	544	+0.012	-0.16
β Ceti	540	-0.026	+0.37	ϵ Cassiopejæ	26	+0.015	-0.15
21 Cassiopejæ	340	+0.039	-0.03	α Trianguli	27	-0.036	-0.12
\omicron Cassiopejæ	341	+0.048	+0.01	γ Arietis	28	+0.026	-0.34
ζ Andromed.	11	+0.024	-0.16	ξ Piscium	29	-0.017	+0.15
η Cassiopejæ	12	+0.446	-1.86	β Arietis	30	+0.013	+0.02
δ Piscium	342	+0.005	+0.21	50 Cassiopejæ	31	-0.014	-0.12
Br. 82	343	+0.227	+0.17	ν Ceti	545	+0.024	+0.47
γ Cassiopejæ	13	+0.043	+0.09	γ Andromed.	32	+0.028	+0.08
μ Andromed.	14	-0.127	-0.26	α Arietis	33	-0.010	-0.29
43 H. Cephei	344	+0.175	-0.32	β Trianguli	34	-0.040	-0.04
ϵ Piscium	15	-0.010	-0.32	55 Cassiopejæ	350	-0.007	+0.09
η Ceti	541	-0.021	+0.04	6 Persei	351	+0.004	-0.17
44 H. Cephei	345	+0.001	+0.53	Lac. μ Forn.	546	+0.053	+0.31
β Andromed.	16	-0.034	-0.55	γ Trianguli	352	-0.002	-0.06
τ Piscium	17	-0.020	-0.96	67 Ceti	353	+0.009	-0.21
ν Piscium	18	+0.016	-0.28	ϑ Arietis	354	+0.011	0.00
ψ Cassiopejæ	346	-0.008	+0.68	\omicron Ceti	35	+0.022	+0.57

Name	Nr. des Fund.-Kat.	1902.0		Name	Nr. des Fund.-Kat.	1902.0	
		$\Delta\alpha$	$\Delta\delta$			$\Delta\alpha$	$\Delta\delta$
ι Cassiopejæ	36	+0.041	+0.14	τ^6 Eridani	551	+0.005	+0.95
ξ^2 Ceti	37	+0.001	-0.07	27 Tauri	62	+0.010	+0.42
36 H. Cassiop.	38	-0.176	-0.25	ζ Persei	63	0.000	-0.09
ν Arietis	355	+0.001	-0.29	9 H. Camelop.	365	-0.017	-1.12
δ Ceti	39	-0.046	+0.63	ϵ Persei	64	+0.026	-0.28
Br. 366	356	-0.023	+0.01	ξ Persei	65	+0.012	+0.41
θ Persei	40	0.000	+0.13	γ Eridani	552	-0.003	+0.10
35 Arietis	357	+0.021	+0.19	λ Tauri	66	-0.014	+0.11
γ Ceti	41	+0.009	+0.51	ν Tauri	67	-0.039	+0.31
π Ceti	547	+0.008	-0.04	c Persei	69	+0.044	-0.04
μ Ceti	42	+0.048	-0.03	Gr. 750	68	+0.215	+0.46
η Persei	43	-0.032	+0.73	σ^1 Eridani	366	-0.024	-0.08
41 Arietis	44	+0.021	+0.44	54 Persei	367	+0.022	+0.14
τ^2 Eridani	548	-0.003	+0.43	γ Tauri	70	-0.013	+0.49
τ Persei	45	+0.007	-0.04	δ Tauri	71	-0.006	+0.02
η Eridani	46	-0.014	-0.23	ϵ Tauri	72	-0.002	+0.07
47 H. Cephei	358	-0.158	-0.45	1 Camel. seq.	368	-0.121	-0.29
α Ceti	47	+0.021	-0.01	α Tauri	73	+0.012	+0.10
γ Persei	48	+0.008	-0.26	ν Eridani	74	+0.040	-0.53
ρ Persei	49	-0.004	-0.13	53 Eridani	553	+0.055	+0.31
β Persei	50	+0.039	-0.37	Gr. 848	369	-0.089	-0.46
ι Persei	51	+0.014	-0.60	τ Tauri	370	+0.020	-0.36
δ Arietis	359	+0.003	+0.28	4 Camelop.	371	+0.073	+0.08
48 H. Cephei	360	+0.333	-0.33	μ Eridani	75	+0.014	-0.29
12 Eridani	549	-0.074	-0.92	9 Camelop.	76	+0.033	+0.01
α Persei	52	-0.013	+0.08	π^4 Orionis	77	-0.006	+0.23
σ Tauri	53	-0.023	-0.06	π^5 Orionis	78	-0.047	+0.34
2 H. Camelop.	361	+0.004	-0.54	ι Aurigæ	79	-0.021	-0.44
ξ Tauri	54	-0.036	+0.64	10 Camelop.	80	-0.068	-0.05
σ Persei	362	-0.003	-0.20	ϵ Aurigæ	81	+0.030	-0.05
f Tauri	55	+0.002	-0.25	ζ Aurigæ	82	-0.020	-0.55
ϵ Eridani	56	+0.008	+0.61	ι Tauri	372	+0.004	-0.04
Gr. 716	363	-0.036	-1.44	η Aurigæ	83	-0.021	-0.31
δ Persei	57	+0.024	-0.19	ϵ Leporis	554	+0.019	+0.08
σ Persei	58	+0.052	-0.12	β Eridani	84	-0.026	-0.56
γ Persei	59	-0.029	+0.28	λ Eridani	85	-0.030	-0.49
δ Eridani	550	-0.019	+0.92	19 H. Camelop.	373	+0.098	+0.07
17 Tauri	60	+0.015	-0.02	μ Aurigæ	374	+0.050	+0.09
5 H. Camelop.	364	+0.235	+0.01	α Aurigæ	86	-0.024	-0.04
η Tauri	61	+0.018	-0.24	β Orionis	87	+0.003	+0.13

Name	Nr. des Fund.-Kat.	1902.0		Name	Nr. des Fund.-Kat.	1902.0	
		$\Delta\alpha$	$\Delta\delta$			$\Delta\alpha$	$\Delta\delta$
τ Orionis	88	+0.043	+0.10	23 H. Camelop.	387	-0.131	+1.10
η Orionis med.	89	+0.033	-0.08	ξ^2 Canis maj.	563	-0.032	-0.76
γ Orionis	91	+0.024	-0.04	51 Aurigae	389	+0.020	-0.07
β Tauri	90	+0.008	+0.28	γ Geminorum	107	-0.012	+0.08
17 Camelop.	375	-0.008	-0.13	S Monocerotis	108	-0.021	+0.20
β Leporis	555	+0.002	-0.43	ε Geminorum	109	+0.030	-0.07
Gr. 966	92	-0.175	+1.08	ψ^5 Aurigae	390	+0.113	+0.18
δ Orionis	93	+0.001	+0.37	ξ Geminorum	110	+0.005	+0.27
α Leporis	556	+0.012	-0.14	α Canis maj.	564	-0.158*	+0.92*
φ^1 Orionis	376	+0.019	+0.23	18 Monocerotis	392	-0.006	+0.36
θ^1 Orionis	94	+0.068	-0.42	43 Camelop.	391	+0.007	-1.61
θ^2 Orionis	95	-0.028	+0.14	24 H. Camelop.	393	-0.085	-0.09
ι Orionis	96	-0.019	-0.01	θ Geminorum	112	-0.027	-0.16
ε Orionis	97	+0.023	-0.28	15 Lyncis	394	-0.020	-0.35
ζ Tauri	98	-0.005	+0.14	θ Canis maj.	565	-0.001	+0.08
σ Orionis	99	+0.011	+0.37	51 H. Cephei	111	-0.574	+0.13
\omicron Aurigae	377	+0.058	+0.80	ε Canis maj.	566	+0.001	-0.45
γ Leporis	557	+0.065	-0.39	ζ Geminorum	113	-0.007	+0.15
130 Tauri	378	+0.046	-0.66	γ Canis maj.	567	+0.051	+0.23
ζ Leporis	558	-0.014	-0.24	δ Canis maj.	568	-0.003	-0.12
\varkappa Orionis	100	+0.032	-0.17	63 Aurigae	395	-0.016	-0.47
ν Aurigae	101	+0.105	-0.39	64 Aurigae	396	-0.124	-0.40
δ Leporis	559	-0.024	+0.88	λ Geminorum	114	-0.010	-0.23
α Orionis	102	0.000	-0.18	δ Geminorum	115	+0.017	-0.17
δ Aurigae	379	+0.044	-0.19	19 Lyncis seq.	397	+0.086	-0.22
η Leporis	560	+0.023	-0.34	ι Geminorum	117	+0.005	+0.06
β Aurigae	103	+0.017	+0.15	Gr. 1308	116	-0.214	+0.88
θ Aurigae	104	-0.023	-0.11	β Canis min.	118	-0.010	-0.03
66 Orionis	380	-0.036	+0.15	ρ Geminorum	398	+0.055	-0.14
ν Orionis	382	-0.003	-0.19	α Geminorum	119	+0.053	+0.52
36 Camelop.	381	+0.228	+0.31	25 Monocerotis	569	+0.125	-0.12
22 H. Camelop.	383	+0.052	-0.05	α Canis min.	120	+0.011*	-0.41*
η Geminorum	105	-0.010	+0.01	24 Lyncis	399	-0.071	+0.13
2 Lyncis	384	-0.073	-0.55	\varkappa Geminorum	121	+0.012	+0.35
μ Geminorum	106	-0.001	-0.23	β Geminorum	122	-0.002	+0.11
ψ^1 Aurigae	385	-0.008	+0.25	π Geminorum	400	-0.018	-0.49
β Canis maj.	561	-0.008	-0.08	26 Lyncis	402	+0.017	+0.69
8 Monocerotis	386	-0.065	+0.21	Gr. 1374	401	+0.146	-0.25
10 Monocerotis	562	+0.005	+0.48	53 Camelop.	403	-0.157	+0.17
8 Lyncis	388	+0.060	-0.78	χ Geminorum	404	+0.011	+0.01

* S. Vorbemerkung. — Die Correctionen der S. 230, 235 gegebenen Ephemeriden werden, für die Mitte des Jahres, -0.030 +0.11, bezw. -0.021 +0.44.

Name	Nr. des Fund.-Kat.	1902.0		Name	Nr. des Fund.-Kat.	1902.0	
		$\Delta\alpha$	$\Delta\delta$			$\Delta\alpha$	$\Delta\delta$
27 Lyncis	405	+0.135	-0.18	μ Leonis	144	+0.035	+0.23
<i>t</i> Navis	570	+0.009	-0.20	Gr. 1586	421	+0.062	-0.40
Br. 1147	406	-0.022	+0.08	19 Leonis min.	422	+0.012	-0.42
20 Navis	571	-0.006	+0.87	π Leonis	423	+0.017	+0.17
β Cancri	123	+0.004	+0.08	η Leonis	145	-0.111	+0.38
31 Lyncis	407	-0.091	+0.16	α Leonis	146	+0.022	-0.11
Br. 1197	124	+0.027	-0.48	λ Hydrae	573	-0.006	-0.18
\circ Ursae maj.	125	+0.024	-0.03	λ Ursae maj.	147	+0.011	+0.65
Gr. 1450	408	+0.131	+1.64	ζ Leonis	148	+0.017	-0.33
η Cancri	409	+0.004	+0.26	μ Ursae maj.	149	-0.007	+0.09
Gr. 1446	410	-0.073	-0.31	30 H. Urs. maj.	424	+0.091	-0.47
Gr. 1460	411	+0.216	-0.11	30 H. Camelop.	425	+0.077	-0.24
δ Cancri	126	+0.021	+0.11	μ Hydrae	574	-0.011	-0.22
<i>t</i> Cancri	127	-0.020	-0.30	31 Leonis min.	426	+0.012	-0.40
ε Hydrae	128	-0.016	-0.51	Lac. α Antliae	575	+0.019	+0.84
σ^3 Cancri med.	412	-0.010	+0.45	36 Ursae maj.	427	+0.038	-0.03
ζ Hydrae	129	-0.033	+0.07	9 H. Draconis	150	+0.210	+0.01
<i>t</i> Ursae maj.	130	-0.034	+0.13	ρ Leonis	151	-0.016	-0.03
α Cancri	131	+0.018	+0.10	37 Ursae maj.	428	+0.078	-0.22
ρ Ursae maj.	413	-0.107	-0.20	35 H. Urs. maj.	429	-0.179	+0.50
10 Ursae maj.	132	+0.019	+0.25	33 Sextantis	576	+0.106	-0.49
Gr. 1501	414	-0.159	-0.70	41 Leonis min.	430	+0.044	+0.03
\times Ursae maj.	133	-0.026	+0.43	42 Leonis min.	431	+0.056	-0.47
σ^3 Ursae maj.	415	-0.107	-0.31	<i>l</i> Leonis	432	-0.004	+0.29
36 Lyncis	416	-0.182	-0.14	ν Hydrae	577	-0.002	-0.14
θ Hydrae	134	-0.014	+0.37	46 Leonis min.	152	+0.048	-0.66
38 Lyncis	135	0.000	+0.02	Br. 1508	433	-0.105	-0.09
83 Cancri	417	-0.009	+0.88	β Ursae maj.	153	+0.018	-0.40
40 Lyncis	136	+0.043	+0.16	α Ursae maj.	154	-0.018	-0.20
α Hydrae	138	-0.014	-0.48	χ Leonis	434	+0.037	-0.23
1 H. Draconis	137	+0.312	-0.12	ψ Ursae maj.	155	-0.007	+0.31
<i>h</i> Ursae maj.	139	+0.068	-0.04	β Crateris	578	+0.021	+0.08
<i>d</i> Ursae maj.	418	-0.074	-0.11	δ Leonis	156	-0.018	-0.20
θ Ursae maj.	140	+0.005	+0.75	θ Leonis	157	+0.019	-0.34
10 Leonis min.	419	-0.029	-0.04	Gr. 1757	435	-0.056	-0.40
Gr. 1564	420	+0.008	-0.07	ξ Urs. maj. m.	158	+0.064	+0.18
\circ Leonis	141	-0.018	-0.04	ν Ursae maj.	159	-0.158	-0.45
ε Leonis	142	+0.002	+0.08	δ Crateris	579	+0.020	+0.24
ν Ursae maj.	143	-0.026	-0.38	σ Leonis	160	-0.017	+0.10
6 Sextantis	572	-0.045	-0.05	Gr. 1771	436	+0.407	+0.32

N a m e	Nr. des Fund.- Kat.	1902.0		N a m e	Nr. des Fund.- Kat.	1902.0	
		$\Delta\alpha$	$\Delta\delta$			$\Delta\alpha$	$\Delta\delta$
ι Leonis	161	+0.053	-0.27	α Virginis	587	+0.007	-0.07
γ Crateris	580	+0.029	-0.56	Gr. 2001	452	+0.088	-0.15
58 Ursae maj.	437	+0.034	+0.25	69 H. Urs. maj.	453	-0.083	+0.73
λ Draconis	162	-0.092	-0.02	ζ Virginis	179	+0.003	-0.35
ξ Hydrae	581	-0.029	-0.54	17 H. Can. ven.	454	+0.047	+0.26
υ Leonis	438	+0.010	-0.02	Gr. 2029	455	-0.008	-0.52
3 Draconis	439	-0.117	0.00	τ Bootis	180	-0.027	+0.08
χ Ursae maj.	163	-0.015	-0.13	η Ursae maj.	181	-0.055	-0.08
β Leonis	164	+0.008	-0.07	89 Virginis	588	+0.018	+0.53
β Virginis	165	+0.009	+0.09	i Draconis	456	+0.035	+0.23
γ Ursae maj.	166	+0.016	0.00	η Bootis	182	-0.029	-0.20
\circ Virginis	167	-0.014	+0.13	τ Virginis	183	+0.012	+0.80
Gr. 1852	440	-0.047	+0.32	11 Bootis	457	+0.004	-0.08
ϵ Corvi	582	-0.011	+0.06	α Draconis	184	+0.002	-0.21
4 H. Draconis	168	-0.036	-0.40	d Bootis	458	-0.013	+0.73
δ Ursae maj.	169	-0.035	+0.24	κ Virginis	185	-0.032	+0.12
γ Corvi	583	-0.019	-0.38	4 Ursae min.	459	+0.073	-0.43
2 Canum ven.	441	-0.019	-0.41	ι Virginis	186	+0.018	+0.04
η Virginis	170	-0.001	+0.53	α Bootis	187	+0.005	-0.28
6 Canum ven.	442	-0.147	+0.54	λ Bootis	188	+0.040	+0.11
δ Corvi	584	-0.076	+0.59	ι Bootis	189	+0.010	+0.01
20 Comae	443	-0.107	-0.37	θ Bootis	190	+0.034	-0.02
74 Ursae maj.	444	-0.151	-0.30	φ Virginis	191	-0.008	+0.10
8 Canum ven.	445	+0.033	+0.20	ρ Bootis	192	-0.007	+0.07
β Corvi	585	+0.061	+0.19	γ Bootis	193	+0.007	+0.19
κ Draconis	171	+0.109	+0.30	Gr. 2125	460	+0.062	+1.42
24 Comae seq.	446	-0.022	+0.04	33 Bootis	461	+0.001	+1.65
γ Virgin. med.	172	-0.038	+0.17	π Bootis pr.	194	+0.062	+1.60
76 Ursae maj.	447	-0.023	+0.02	ζ Bootis med.	195	+0.037	-0.05
ϵ Ursae maj.	173	+0.055	+0.95	μ Virginis	196	-0.006	-0.12
δ Virginis	174	+0.030	-0.25	109 Virginis	197	+0.018	-0.05
12 Can. ven. sq.	175	+0.014	-0.24	8 Librae	589	+0.040	+0.91
8 Draconis	448	-0.136	+0.39	α Librae	590	+0.008	+0.27
ϵ Virginis	176	-0.023	+0.13	Gr. 2164	462	-0.002	-1.10
θ Virginis	449	+0.020	-0.09	β Ursae min.	198	-0.018	+0.14
17 Canum ven.	450	+0.043	+0.03	P. XIV, 221	463	-0.050	-0.65
43 Comae	177	-0.027	-0.13	2 H. Urs. min.	464	-0.268	-1.13
20 Canum ven.	451	+0.038	-0.20	β Bootis	199	-0.007	-0.15
γ Hydrae	586	+0.098	-0.33	γ Scorpii	591	+0.002	-0.67
ζ Urs. maj. pr.	178	+0.038	-0.01	ψ Bootis	465	+0.017	+0.26

N a m e	Nr. des Fund.- Kat.	1902.0		N a m e	Nr. des Fund.- Kat.	1902.0	
		$\Delta\alpha$	$\Delta\delta$			$\Delta\alpha$	$\Delta\delta$
ι Librae	592	-0.035	+0.30	η Draconis	226	-0.373	+0.47
ζ Serpentis	466	-0.045	-0.03	α Scorpii	596	-0.008	+0.22
δ Bootis	201	-0.023	-0.38	λ Ophiuchi	227	-0.032	-0.11
β Librae	200	-0.009	-0.05	β Herculis	228	+0.042	+0.29
ι H. Urs. min.	467	+0.094	-0.09	Δ Draconis	229	+0.122	-0.22
μ Bootis	202	+0.060	+0.36	σ Herculis	230	+0.026	+0.39
γ Ursae min.	203	-0.297	-0.40	ζ Ophiuchi	597	-0.007	-0.08
τ ¹ Serpentis	468	+0.040	-0.79	Gr. 2373	476	-0.250	-0.26
ι Draconis	204	+0.055	-0.41	ζ Herculis	231	+0.004*	-0.22*
β Coron. bor.	205	-0.044	+0.47	η Herculis	232	-0.026	-0.23
ν ¹ Bootis	206	-0.025	+0.44	Gr. 2377	477	-0.141	+0.23
ν ² Bootis	207	+0.011	+0.53	49 Herculis	478	-0.033	+0.11
θ Coron. bor.	208	+0.120	+0.41	κ Ophiuchi	233	+0.009	-0.43
γ Librae	593	-0.056	-0.22	ε Ursae min.	235	-0.050	+0.08
α Coron. bor.	209	-0.018	+0.18	ε Herculis	234	+0.002	+0.26
φ Bootis	469	-0.023	+0.47	60 Herculis	479	-0.004	+0.04
ζ Cor. bor. (sq.)	210	+0.061	-0.15	Gr. 2415	480	+0.112	-0.39
γ Coron. bor.	211	-0.007	+0.48	η Ophiuchi	598	+0.013	+0.08
α Serpentis	212	-0.003	+0.12	ξ Draconis	236	-0.043	-0.29
β Serpentis	213	+0.043	-0.37	α Herculis	237	-0.002	+0.60
κ Serpentis	215	-0.017	-0.31	δ Herculis	238	+0.009	+0.03
μ Serpentis	214	+0.007	-0.61	π Herculis	239	+0.003	+0.34
ι2 H. Draconis	470	-0.109	+0.10	θ Ophiuchi	599	+0.003	+0.73
ε Serpentis	216	+0.019	+0.29	κ Herculis	481	+0.102	+0.54
ζ Ursae min.	217	+0.125	-0.07	β Draconis	240	-0.005	+0.02
γ Serpentis	218	+0.019	+0.01	ν ¹ Draconis	242	-0.037	-0.04
ε Coron. bor.	219	-0.005	+0.10	ν ² Draconis	243	0.000	+0.08
δ Scorpii	594	-0.025	-0.16	α Ophiuchi	241	-0.003	-0.22
Gr. 2296	471	+0.166	+0.14	ξ Serpentis	600	+0.009	-0.39
β Scorpii	595	+0.004	+0.29	ζ Draconis	482	+0.121	+0.17
θ Draconis	220	-0.150	-0.35	ι Herculis	244	-0.053	-0.16
φ Herculis	221	+0.291	-0.25	ω Draconis	483	-0.058	+0.37
δ Ophiuchi	222	+0.008	-0.25	β Ophiuchi	245	+0.005	-0.27
ε Ophiuchi	223	-0.018	+0.43	μ Herculis	246	-0.052	+0.33
ι9 Ursae min.	472	+0.163	+0.29	γ Ophiuchi	247	+0.034	-0.20
τ Herculis	224	+0.129	-0.15	ψ Drac. (austr.)	484	+0.079	-0.17
γ Herculis	225	+0.025	+0.06	ξ Draconis	248	-0.253	-0.01
η Ursae min.	474	-0.068	-0.24	θ Herculis	249	+0.066	-0.12
ω Herculis	473	+0.128	-0.81	ν Ophiuchi	250	-0.008	-1.06
Gr. 2343	475	-0.083	+0.44	35 Draconis	485	-0.038	0.00

* Correction für den Hauptstern.

Name	Nr. des Fund.-Kat.	1902.0		Name	Nr. des Fund.-Kat.	1902.0	
		$\Delta\alpha$	$\Delta\delta$			$\Delta\alpha$	$\Delta\delta$
ξ Herculis	251	-0.020	+0.24	β Cygni	275	+0.013	+0.66
γ Draconis	252	+0.020	+0.20	ι Cygni	276	-0.033	+0.01
67 Ophiuchi	253	-0.126	-0.16	Gr. 2900	497	+0.381	-0.36
γ Sagittarii	601	-0.039	+0.65	h Sagittarii	605	+0.054	-0.27
72 Ophiuchi	254	+0.017	-0.09	θ Cygni	498	-0.017	-0.12
\circ Herculis	255	-0.007	+0.25	15 Cygni	499	-0.051	+0.05
δ Ursae min.	256	-0.135	+0.25	γ Aquilae	277	+0.006	-0.03
μ Sagittarii	602	-0.015	+0.25	δ Cygni	278	-0.035	+0.04
Gr. 2533	486	+0.198	-0.58	δ Sagittae	279	+0.032	-0.72
36 Draconis	487	+0.057	+0.27	α Aquilae	280	-0.007	+0.21
η Serpentis	257	+0.033	-0.57	η Aquilae	281	+0.046	-0.09
109 Herculis	258	-0.008	+0.23	ε Draconis	282	+0.098	-0.02
φ Draconis	489	-0.121	-0.14	β Aquilae	283	+0.018	-0.02
b Draconis	488	+0.057	+0.35	ψ Cygni	285	+0.016	+0.36
χ Draconis	259	+0.071	-0.26	γ Sagittae	286	+0.006	-0.31
α Lyrae	260	-0.034	-0.46	θ Aquilae	287	+0.029	+0.02
Gr. 2655	490	-0.252	+0.58	σ^1 seq. Cygni	288	-0.006	-0.14
Gr. 2640	491	+0.115	+1.10	33 Cygni	500	-0.120	+0.85
ε Lyrae a. pr.	261	+0.086	-0.61	α Cephei	502	+0.141	+0.25
5 Lyrae med.	262	+0.031	-0.24	α^1 Capricorni	606	+0.024	-0.48
110 Herculis	263	+0.027	+0.60	24 Vulpeculae	501	-0.001	+0.77
β Lyrae	264	+0.005	-0.47	α^2 Capricorni	607	+0.019	-0.16
σ Sagittarii	603	-0.026	-0.12	β Capricorni	608	-0.007	-0.13
\circ Draconis	265	+0.023	-0.33	γ Cygni	289	-0.048	-0.54
θ Serpent. pr.	266	+0.008	-0.84	ρ Capricorni	609	-0.015	-0.03
R Lyrae	492	+0.006	+0.23	θ Cephei	291	+0.022	+0.31
ε Aquilae	267	-0.025	+0.45	ε Delphini	290	+0.003	+0.09
γ Lyrae	268	+0.031	-0.14	73 Draconis	504	-0.013	0.00
ν Draconis	493	-0.012	+0.18	β Delphini	292	+0.028	-0.02
ζ Aquilae	270	+0.024	-0.01	α Delphini	503	-0.002	+0.25
λ Aquilae	269	+0.025	+0.04	ν Capricorni	610	-0.001	-0.97
ι Lyrae	494	-0.050	-0.31	α Delphini	293	+0.006	+0.05
π Sagittarii	604	-0.010	+0.23	α Cygni	294	-0.017	-0.22
δ Draconis	271	+0.006	-0.08	δ Delphini	295	-0.005	-0.14
θ Lyrae	496	+0.110	+0.44	γ Delphini sq.	296	-0.002	+0.07
ω Aquilae	495	-0.012	-0.12	ε Cygni	298	-0.017	-0.06
α Cygni	272	-0.004	+0.03	ε Aquarii	297	-0.002	+0.11
τ Draconis	273	-0.045	-0.27	6 H. Cephei	505	+0.081	+0.24
λ Ursae min.	284	-0.112	+0.49	η Cephei	299	+0.027	-0.05
δ Aquilae	274	-0.004	+0.12	λ Cygni	506	+0.023	-0.52

Name	Nr. des Fund.-Kat.	1902.0		Name	Nr. des Fund.-Kat.	1902.0	
		$\Delta\alpha$	$\Delta\delta$			$\Delta\alpha$	$\Delta\delta$
76 Draconis	508	+0.011	+0.33	3 Lacertae	524	+0.028	+0.14
32 Vulpeculae	507	-0.022	+0.22	δ Cephei	318	-0.015	-0.29
Br. 2749	509	-0.175	-0.09	7 Lacertae	319	+0.026	+0.23
ν Cygni	300	-0.008	-0.72	η Aquarii	320	+0.013	-0.01
ξ Cygni	301	-0.039	0.00	31 Cephei	525	-0.166	-0.56
61 Cygni pr.	302	+0.193	+0.31	10 Lacertae	526	-0.015	-0.26
ν Aquarii	611	+0.016	+0.08	30 Cephei	527	+0.058	+0.39
Br. 2777	510	+0.020	-0.05	ζ Pegasi	321	-0.018	+0.41
ζ Cygni	303	+0.023	+0.40	η Pegasi	322	-0.020	-0.30
Gr. 3415	511	-0.027	+0.34	13 Lacertae	528	+0.038	+0.24
τ Cygni	305	+0.005	-0.64	λ Pegasi	323	-0.009	-0.14
α Equulei	304	+0.020	-0.23	τ Aquarii	617	+0.014	+0.66
α Cephei	306	-0.024	+0.75	μ Pegasi	324	-0.002	+0.14
ι Pegasi	512	-0.032	-0.16	ι Cephei	325	+0.065	+0.22
ζ Capricorni	612	-0.020	+0.70	λ Aquarii	326	+0.020	+0.16
g Cygni	513	+0.038	+0.33	δ Aquarii	618	+0.006	-0.33
β Aquarii	307	-0.006	+0.13	α Piscis austr.	619	+0.014	-0.08
β Cephei	308	-0.037	+0.14	ο Andromed.	327	+0.014	-0.33
74 Cygni	514	-0.020	+0.45	β Pegasi	328	+0.003	+0.34
γ Capricorni	613	-0.014	-0.19	α Pegasi	329	+0.003	-0.28
13 H. Cephei	515	0.000	+0.18	ε ² Aquarii	620	-0.028	-0.69
ε Pegasi	309	-0.020	-0.24	π Cephei	529	-0.058	-0.02
κ Pegasi	310	+0.056	-0.07	Br. 3077	530	+0.063	+0.09
11 Cephei	516	+0.031	-0.04	γ Piscium	330	+0.015	-0.09
λ Capricorni	614	-0.034	+1.02	τ Pegasi	531	+0.003	+0.42
δ Capricorni	615	-0.025	+0.16	4 Cassiopejæ	533	+0.014	+0.33
π ² Cygni	517	-0.046	+0.17	υ Pegasi	532	+0.056	-0.14
16 Pegasi	518	-0.018	+0.07	κ Piscium	534	+0.022	+0.27
20 Pegasi	519	-0.037	+0.24	70 Pegasi	535	+0.033	+0.33
α Aquarii	311	+0.018	-0.19	72 Pegasi	536	+0.036	+0.09
ι Aquarii	616	+0.030	-0.19	λ Andromed.	331	-0.072	-0.07
20 Cephei	520	+0.040	-0.39	ι Andromed.	332	-0.023	+0.23
ι Pegasi	312	-0.002	+0.19	ι Piscium	333	+0.003	+0.20
27 Pegasi	313	-0.003	-0.20	γ Cephei	334	+0.016	+0.51
θ Pegasi	314	-0.013	-0.31	κ Andromed.	335	-0.029	-0.27
π Pegasi	315	-0.002	-0.63	ω ² Aquarii	621	-0.009	-0.16
ζ Cephei	316	+0.070	-0.01	41 H. Cephei	537	+0.156	+0.04
24 Cephei	521	+0.096	-0.34	Lac. δ Sculpt.	622	+0.064	-0.53
θ Aquarii	522	-0.012	-0.13	φ Pegasi	538	+0.042	+0.73
γ Aquarii	317	+0.001	-0.25	ρ Cassiopejæ	539	+0.065	+0.43
31 Pegasi	523	+0.010	-0.01	ω Piscium	336	+0.004	-0.09

Anhang II.

Verbesserung der Ephemeride des Mondkraters Mösting A für 1901.

Die Ephemeride des Mondkraters Mösting A im Jahrbuch für 1901 ist vom 23. Juli ab mit einem fehlerhaften Werth von Ω' berechnet und wird daher hier berichtigt wiedergegeben.

Krater im Meridian.

Datum	Physische Libration in selenoc.		Reduction für Meridianbeobachtungen							
	Länge	Breite	in AR.		in Decl.		Parallaxe			
			$\alpha_c - \alpha_k$	Diff.	$\delta_c - \delta_k$	Diff.	lg. sin p_k	Diff.		
Juli 23	-0.9	-0.5	-3.98	+0.54		+III.2	-30.3		8.20020	+ 12
24	0.8	0.4	-3.44	0.64	+0.10	+ 80.9	30.0	+0.3	20032	153
25	0.8	0.4	-2.80	0.74	0.10	+ 50.9	28.2	1.8	20185	283
26	0.7	0.4	-2.06	0.83	+0.09	+ 22.7	24.8	3.4	20468	389
27	0.7	0.4	-1.23	0.81	-0.02	- 2.1	20.4	4.4	20857	463
28	0.7	0.4	-0.42	0.66	0.15	- 22.5	15.5	4.9	21320	500
29	0.7	0.4	+0.24	+0.37	0.29	- 38.0	10.7	4.8	21820	500
30	0.7	0.4	+0.61	-0.03	0.40	- 48.7	6.2	4.5	22320	463
31	0.7	0.4	+0.58	0.47	0.44	- 54.9	- 2.0	4.2	22783	397
Aug. 1	0.8	0.4	+0.11	0.90	0.43	- 56.9	+ 1.8	3.8	23180	313
2	0.9	0.4	-0.79	1.32	0.42	- 55.1	6.3	4.5	23493	232
3	1.0	0.4	-2.11	1.66	0.34	- 48.8	11.8	5.5	23725	123
4	1.1	0.4	-3.77	1.86	0.20	- 37.0	18.2	6.4	23848	+ 50
5	1.2	0.4	-5.63	1.87	-0.01	- 18.8	25.3	7.1	23898	- 22
6	1.3	0.4	-7.50	-1.63	+0.24	+ 6.5	+31.8	+6.5	23876	- 88
7	1.4	0.4	-9.13			+ 38.3			23788	

Krater im Meridian.

Datum	Physische Libration in selenoc.		Reduction für Meridianbeobachtungen						
	Länge	Breite	in AR.		in Decl.		Parallaxe		
			$\alpha_c - \alpha_k$	Diff.	$\delta_c - \delta_k$	Diff.	lg. sin p_k	Diff.	
Aug. 22	-1.5	-0.3	- 2.17	+0.98		+ 28.8	-25.7	8.20197	+324
23	1.5	0.3	- 1.19	1.02 +0.04		+ 3.1	21.1 +4.6	20521	448
24	1.4	0.3	- 0.17	0.90 -0.12		- 18.0	15.9 5.2	20969	547
25	1.4	0.3	+ 0.73	0.60 0.30		- 33.9	10.6 5.3	21516	609
26	1.4	0.3	+ 1.33	+0.12 0.48		- 44.5	6.4 4.2	22125	616
27	1.4	0.3	+ 1.45	-0.44 0.56		- 50.9	- 2.9 3.5	22741	576
28	1.5	0.3	+ 1.01	1.02 0.58		- 53.8	0.0 2.9	23317	481
29	1.5	0.3	- 0.01	1.57 0.55		- 53.8	+ 3.5 3.5	23798	353
30	1.6	0.3	- 1.58	2.02 0.45		- 50.3	8.3 4.8	24151	193
31	1.7	0.3	- 3.60	2.29 -0.27		- 42.0	15.0 6.7	24344	+ 41
Sept. 1	1.8	0.3	- 5.89	2.29 0.00		- 27.0	23.1 8.1	24385	-104
2	1.9	0.3	- 8.18	1.98 +0.31		- 3.9	31.1 8.0	24281	219
3	2.0	0.3	-10.16	1.32 0.66		+ 27.2	37.2 6.1	24062	302
4	2.1	0.3	-11.48	-0.46 +0.86		+ 64.4	+39.0 +1.8	23760	-354
5	2.2	0.3	-11.94			+103.4		23406	
Sept. 21	-1.8	-0.2	+ 0.93	+1.05		- 31.1	-10.8	8.20914	+584
22	1.8	0.2	+ 1.98	0.63 -0.42		- 41.9	5.4 +5.4	21498	672
23	1.8	0.2	+ 2.61	+0.03 0.60		- 47.3	- 1.5 3.9	22170	714
24	1.8	0.2	+ 2.64	-0.66 0.69		- 48.8	+ 1.3 2.8	22884	696
25	1.8	0.2	+ 1.98	1.38 0.72		- 47.5	3.2 1.9	23580	611
26	1.9	0.2	+ 0.60	2.07 0.69		- 44.3	5.9 2.7	24191	466
27	1.9	0.2	- 1.47	2.60 0.53		- 38.4	10.5 4.6	24657	273
28	2.0	0.2	- 4.07	2.88 -0.28		- 27.9	18.0 7.5	24930	+ 54
29	2.1	0.1	- 6.95	2.76 +0.12		- 9.9	27.3 9.3	24984	-156
30	2.2	0.1	- 9.71	2.16 0.60		+ 17.4	35.7 8.4	24828	341
Oct. 1	2.3	0.1	-11.87	1.18 0.98		+ 53.1	40.7 +5.0	24487	465
2	2.4	0.1	-13.05	-0.07 1.11		+ 93.8	39.8 -0.9	24022	541
3	2.4	0.1	-13.12	+0.75 +0.82		+133.6	+33.7 -6.1	23481	-564
4	2.5	0.1	-12.37			+167.3		22917	
Oct. 20	-1.7	-0.1	+ 2.79	+0.70		- 46.4	- 0.4	8.21341	+662
21	1.6	0.0	+ 3.49	+0.07 -0.63		- 46.8	+ 3.4 +3.8	22003	733
22	1.6	0.0	+ 3.56	-0.65 0.72		- 43.4	5.8 2.4	22736	756
23	1.7	0.0	+ 2.91	1.43 0.78		- 37.6	7.2 1.4	23492	711
24	1.7	0.0	+ 1.48	2.19 0.76		- 30.4	9.2 2.0	24203	597
25	1.8	0.0	- 0.71	2.82 0.63		- 21.2	13.2 4.0	24800	410
26	1.8	0.0	- 3.53	3.17 -0.35		- 8.0	20.7 7.5	25210	+171
27	1.9	0.0	- 6.70	3.03 +0.14		+ 12.7	29.8 9.1	25381	- 87
28	2.0	0.0	- 9.73	2.33 0.70		+ 42.5	38.0 8.2	25294	-329
29	2.0	0.0	-12.06	+1.15		+ 80.5	+3.4	24965	

Krater im Meridian.

Datum	Physische Libration in selenoc.		Reduction für Meridianbeobachtungen							
	Länge	Breite	in AR.		in Decl.		Parallaxe			
			$\alpha_c - \alpha_k$	Diff.	$\delta_c - \delta_k$	Diff.	lg. sin p_k	Diff.		
Oct. 29	-2.0	0.0	-12.06	-1.18	+1.15	+ 80.5	+41.4	+ 3.4	8.24965	
30	2.1	0.0	-13.24	+0.01	1.19	+121.9	38.4	- 3.0	24444	-521
31	2.2	0.0	-13.23	0.87	0.86	+160.3	29.8	8.6	23799	645
Nov. 1	2.2	0.0	-12.36	1.26	0.39	+190.1	18.5	11.3	23100	699
2	2.2	0.0	-11.10	+1.41	+0.15	+208.6	+ 5.8	-12.7	22409	691
3	2.2	0.0	- 9.69			+214.4			21770	-639
Nov. 18	-1.1	+0.1	+ 3.50	+0.10		- 44.7	+ 7.5		8.21814	+649
19	1.0	0.1	+ 3.60	-0.55	-0.65	- 37.2	9.7	+ 2.2	22463	716
20	1.0	0.1	+ 3.05	1.26	0.71	- 27.5	11.5	1.8	23179	707
21	1.1	0.1	+ 1.79	1.97	0.71	- 16.0	13.2	1.7	23886	644
22	1.1	0.1	- 0.18	2.59	0.62	- 2.8	16.9	3.7	24530	510
23	1.2	0.1	- 2.77	2.94	-0.35	+ 14.1	22.8	5.9	25040	309
24	1.2	0.1	- 5.71	2.84	+0.10	+ 36.9	30.8	8.0	25349	+ 59
25	1.3	0.1	- 8.55	2.20	0.64	+ 67.7	37.5	6.7	25408	-206
26	1.4	0.1	-10.75	1.16	1.04	+105.2	39.1	+ 1.6	25202	441
27	1.4	0.1	-11.91	-0.14	1.02	+144.3	34.5	- 4.6	24761	622
28	1.4	0.1	-12.05	+0.60	0.74	+178.8	25.0	9.5	24139	727
29	1.4	0.1	-11.45	0.96	0.36	+203.8	12.9	12.1	23412	759
30	1.5	0.1	-10.49	1.02	+0.06	+216.7	+ 1.4	11.5	22653	727
Dec. 1	1.4	0.1	- 9.47	0.91	-0.11	+218.1	- 9.0	10.4	21926	648
2	1.4	0.1	- 8.56	+0.75	-0.16	+209.1	-17.6	- 8.6	21278	-542
3	1.5	0.2	- 7.81			+191.5			20736	
Dec. 18	-0.1	+0.2	+ 2.01	-1.12		- 19.2	+15.0		8.22919	+584
19	0.1	0.2	+ 0.89	1.64	-0.52	- 4.2	17.4	+ 2.4	23503	559
20	0.2	0.2	- 0.75	2.10	0.46	+ 13.2	20.7	3.3	24062	482
21	0.2	0.2	- 2.85	2.27	-0.17	+ 33.9	25.7	5.0	24544	348
22	0.3	0.2	- 5.12	2.17	+0.10	+ 59.6	31.1	5.4	24892	+162
23	0.3	0.2	- 7.29	1.65	0.52	+ 90.7	34.7	+ 3.6	25054	- 63
24	0.4	0.2	- 8.94	0.90	0.75	+125.4	34.3	- 0.4	24991	292
25	0.4	0.3	- 9.84	-0.18	0.72	+159.7	28.3	6.0	24699	490
26	0.4	0.3	-10.02	+0.30	0.48	+188.0	19.3	9.0	24209	637
27	0.4	0.3	- 9.72	0.52	0.22	+207.3	+ 7.6	11.7	23572	714
28	0.4	0.3	- 9.20	0.55	+0.03	+214.9	- 3.5	11.1	22858	725
29	0.4	0.3	- 8.65	0.49	-0.06	+211.4	13.3	9.8	22133	677
30	0.3	0.3	- 8.16	+0.42	-0.07	+198.1	-21.2	- 7.9	21456	-585
31	0.2	0.3	- 7.74			+176.9			20871	



A. W. Schade's Buchdruckerei in Berlin S., Stallschreiberstr. 45/46.