書誌第684號

昭和20年

天體位置表

水路部

昭和19年

水
99

水

99

七　曜　表

神武天皇即位紀元2605年

昭和20年　平年

西暦1945年

1月

日	月	火	水	木	金	土
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

1 四方拜
3 元始祭
4 政治始　14 朔
5 新年宴會　28 望

2月

日	月	火	水	木	金	土
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

11 紀元節
13 朔
27 望

3月

日	月	火	水	木	金	土
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

10 陸軍記念日
21（春分）春季皇靈祭
14 朔
29 望

4月

日	月	火	水	木	金	土
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

3 神武天皇祭
29 天長節
30 靖國神社祭　12 朔
27 望

5月

日	月	火	水	木	金	土
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

27 海軍記念日
12 朔
27 望

6月

日	月	火	水	木	金	土
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

11 入　梅
22 夏　至
10 朔
26 望

7月

日	月	火	水	木	金	土
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

9 朔
25 望

8月

日	月	火	水	木	金	土
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

8 朔
23 望

9月

日	月	火	水	木	金	土
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

1 二百十日
23（秋分）秋季皇靈祭
6 朔
22 望

10月

日	月	火	水	木	金	土
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

17 神嘗祭
23 靖國神社祭
6 朔
21 望

11月

日	月	火	水	木	金	土
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

3 明治節
23 新嘗祭
5 朔
20 望

12月

日	月	火	水	木	金	土
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

22 冬　至
25 大正天皇祭
5 朔
19 望

諸外國祝日表

2月 6日	滿洲帝國萬壽節
5月 1日	獨逸國國祭日
5月10日	「ルーマニア」王國獨立日
5月27日	「アフガニスタン」王國獨立日
6月16日	瑞典國皇帝「グスタフ」第五世陛下誕辰
7月14日	佛蘭西共和國國祭日
8月 1日	瑞西聯邦國祭日（聯邦政府創立日）
8月20日	「ハンガリー」王國國祭日（「サンテチエンヌ」祭日）
9月20日	「タイ」國皇帝「アナンタ・マヒドン」陛下誕辰
9月26日	丁抹國皇帝「クリスチアン」第十世陛下誕辰
10月 1日	西班牙國執政就職宣言記念日
10月 3日	「ブルガリア」王國獨立日
10月 5日	「ポルトガル」共和國國祭日（共和政體創立日）
10月10日	中華民國双十節
10月29日	土耳其共和國共和宣言日
11月 7日	「ソビエト」社會主義共和國聯邦創立日
12月 6日	「ヒンランド」共和國獨立日

書誌第684號

昭和20年

天體位置表

緒言

(1) 航海上必要ナル天文諸元ハ天測暦及航海暦トシテ刊行シ普ク利用サレ來リシガ、更ニ經緯度測定其ノ他主トシテ陸上ニ於ケル天文作業ニ使用スル目的ヲ以テ、太陽、月、惑星及恒星ノ精密位置ニ北極星緯度表等ノ補助表ヲ加ヘ本書ヲ刊行ス。本書ハ即チ純然タル天文暦ナリ。

(2) 本書ノ内容ハ悉ク當部ニ於テ獨立ニ推算シタルモノナリ。而シテ太陽直角座標、水星、天王星、海王星、恒星925個ノ視位、日月食、惑星現象及日月出沒時ハ特ニ本書ノ爲ニ新ニ推算シ、太陽、月及4大惑星ニ關スル表ハ天測暦資料ノ基礎トシテ數年前既ニ推算セル分ヲ活用セルモノナリ。

昭和19年3月

水路部

天 體 位 置 表

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天 文 常 數

太陽平均赤道地平視差……8.″80
章動常數……9.21
光行差常數……20.47
以上パリー協定（1896）＝依ル

一般歲差……50.″2564＋0.″0002 22t……50.″2664
赤經ノ歲差……46.0850＋0.0002 79t……46.0976
赤緯ノ歲差……20.0468－0.0000 85t……20.0430
黃道回轉速度……0.4711－0.0000 07t……0.4708
黃道回轉ノ昇交點黃經……173° 57′ 3.″6 ＋ 32.″862t……174° 21′ 42.″4
黃道傾角……23 27 8.26 － 0.4684t……23 26 47.18
} 1945.0
以上 Newcomb ＝依ル

月ノ平均赤道地平視差……57′ 2.″70 (Brown)
月ノ平均距離……38 4403 粁
太陽ノ平均距離……1 4950 4201 粁
光速度……毎秒 29 9860 粁（Newcomb 及 Michelson）
光　差……498.^{s}580＝0.^{d}0057 7060

太陽年（回歸年）……365.^{d}2421 9879－614.^{d}×10^{-10} t……365.^{d}2421 9603
恒星年……365.2563 6042＋ 11×10^{-10} t……365.2563 6047
近點年……365.2596 4134＋304×10^{-10} t……365.2596 4271
} 1945.0
以上 Newcomb ＝依ル
食　年……346.6200 31 ＋ 32×10^{-8} t……346.6200 45

朔望月……29.^{d}5305 88＝29^{d} 12^{h} 44^{m} 2.^{s}8
分點月……27.3215 82＝27 7 43 4.7
恒星月……27.3216 61＝27 7 43 11.5
近點月……27.5545 50＝27 13 18 33.1
交點月……27.2122 20＝27 5 5 35.8
} (Brown)

恒星日……平陽時ノ 23^{h} 56^{m} 4.^{s}09054＝0.9972 6956 64平陽日
平陽日……恒星時ノ 24 3 56.55536＝1.0027 3790 93恒星日

Gauss ノ萬有引力常數……K＝0.0172 0209 9＝3548.″1876 1

赤道半徑……a＝6378.^{粁}388 (Hayford)
極半徑……b＝6356.909

扁　率……$\frac{a-b}{a}=\frac{1}{297.0}$

離心率……$\frac{\sqrt{a^2-b^2}}{a}=e=0.0819\ 9750$

重力ノ加速度……$g=9.^{m}8060-0.^{m}0260\cos 2l-\frac{2h}{R}g$ (Helmert)

地理緯度 l，地心緯度 l'……$l'=l-11'\ 35.''66\sin 2l+1.''17\sin 4l$

註…tハ 1900 年 1 月 0 日世界時平正午ヨリ起算セル年數（太陽年）

月	日		視赤經	視赤緯	視半徑	地平視差	時差率（視時−平時）	恒星時
			h m s s	° ′ ″ ″	″ ″	m s s	h m s
1	1	月	18 44 28.08 264.84	−23 3 6.7 + 295.2	16 17.87 8.95	− 3 21.02 −28.29	6 41 7.074
	2	火	48 52.92 264.52	22 58 11.5 322.7	17.87 95	3 49.31 27.96	45 3.631
	3	水	53 17.44 264.17	52 48.8 350.1	17.87 95	4 17.27 27.61	49 0.187
	4	木	18 57 41.61 263.80	46 58.7 377.3	17.86 95	4 44.88 27.24	52 56.740
	5	金	19 2 5.41 263.39	40 41.4 404.2	17.85 95	5 12.12 26.83	6 56 53.293
	6	土	19 6 28.80 262.95	−22 33 57.2 + 430.9	16 17.83 8.95	− 5 38.95 −26.40	7 0 49.845
	7	日	10 51.75 262.49	26 46.3 457.4	17.80 95	6 5.35 25.93	4 46.398
	8	月	15 14.24 262.01	19 8.9 483.8	17.77 95	31.28 25.45	8 42.951
	9	火	19 36.25 261.50	11 5.1 509.9	17.74 95	6 56.73 24.94	12 39.506
	10	水	23 57.75 260.95	22 2 35.2 535.8	17.70 95	7 21.67 24.40	16 36.063
	11	木	19 28 18.70 260.39	−21 53 39.4 + 561.4	16 17.65 8.95	− 7 46.07 −23.82	7 20 32.624
	12	金	32 39.09 259.79	44 18.0 586.7	17.61 95	8 9.89 23.25	24 29.186
	13	土	36 58.88 259.18	34 31.3 611.7	17.56 95	33.14 22.62	28 25.749
	14	日	41 18.06 258.54	24 19.6 636.6	17.50 95	8 55.76 21.98	32 22.312
	15	月	45 36.60 257.87	13 43.0 661.0	17.44 95	9 17.74 21.30	36 18.875
	16	火	19 49 54.47 257.18	−21 2 42.0 + 685.2	16 17.38 8.95	− 9 39.04 −20.63	7 40 15.434
	17	水	54 11.65 256.46	20 51 16.8 708.9	17.31 94	9 59.67 19.91	44 11.990
	18	木	19 58 28.11 255.73	39 27.9 732.5	17.24 94	10 19.58 19.17	48 8.543
	19	金	20 2 43.84 254.98	27 15.4 755.6	17.17 94	38.75 18.42	52 5.095
	20	土	6 58.82 254.22	14 39.8 778.4	17.09 94	10 57.17 17.66	56 1.646
	21	日	20 11 13.04 253.43	−20 1 41.4 + 800.7	16 17.01 8.94	−11 14.83 −16.87	7 59 58.198
	22	月	15 26.47 252.65	19 48 20.7 822.9	16.92 94	31.70 16.10	8 3 54.752
	23	火	19 39.12 251.85	34 37.8 844.6	16.83 94	11 47.80 15.29	7 51.310
	24	水	23 50.97 251.05	20 33.2 866.0	16.73 94	12 3.09 14.50	11 47.869
	25	木	28 2.02 250.25	19 6 7.2 886.8	16.63 94	17.59 13.69	15 44.430
	26	金	20 32 12.27 249.43	−18 51 20.4	16 16.52 8.94	−12 31.28 −12.87	8 19 40.992
	27	土	36 21.70 248.62	36 13.0 + 907.4	16.41 94	44.15 12.07	23 37.553
	28	日	40 30.32 247.80	20 45.3 927.7	16.29 93	12 56.22 11.24	27 34.112
	29	月	44 38.12 247.00	18 4 57.8 947.5	16.16 93	13 7.46 10.45	31 30.669
	30	火	48 45.12 246.18	17 48 50.9 966.9	16.03 93	17.91 9.62	35 27.224
	31	水	52 51.30 245.38	32 24.8 986.1	15.89 93	27.53 8.83	39 23.776
							1004.7
2	1	木	20 56 56.68 244.56	−17 15 40.1	16 15.75 8.93	−13 36.36 − 8.00	8 43 20.327
	2	金	21 1 1.24 243.76	16 58 37.2 + 1022.9	15.60 93	44.36 7.21	47 16.876
	3	土	5 5.00 242.96	41 16.4 1040.8	15.45 93	51.57 6.41	51 13.427
	4	日	9 7.96 242.16	23 38.0 1058.4	15.29 93	13 57.98 5.60	55 9.977
	5	月	13 10.12 241.38	16 5 42.6 1075.4	15.13 92	14 3.58 4.82	8 59 6.529
							1092.1
	6	火	21 17 11.50 240.58	−15 47 30.5	16 14.96 8.92	−14 8.40	9 3 3.082
	7	水	21 12.08 239.80	29 2.1 + 1108.4	14.79 92	12.43 − 4.03	6 59.639
	8	木	25 11.88 239.03	15 10 17.9 1124.2	14.61 92	15.68 3.25	10 56.198
	9	金	29 10.91 238.24	14 51 18.2 1139.7	14.43 92	18.15 2.47	14 52.758
	10	土	33 9.15 237.47	32 3.4 1154.8	14.25 92	19.83 1.68	18 49.319
							1169.4
	11	日	21 37 6.62 236.71	−14 12 34.0	16 14.07 8.91	−14 20.75	9 22 45.879
	12	月	41 3.33 235.95	13 52 50.4 + 1183.6	13.88 91	20.90 − 0.15	26 42.436
	13	火	44 59.28 235.19	32 53.1 1197.3	13.69 91	20.30 + 0.60	30 38.991
	14	水	48 54.47 234.44	13 12 42.4 1210.7	13.50 91	18.93 1.37	34 35.544
	15	木	52 48.91 233.69	12 52 18.9 1223.5	13.31 91	16.83 2.10	38 32.093
							1236.0
	16	金	21 56 42.60 232.96	−12 31 42.9	16 13.12 8.91	−14 13.96	9 42 28.642
	17	土	22 0 35.56 232.23	12 10 54.8 + 1248.1	12.92 90	10.36 + 3.60	46 25.191
	18	日	4 27.79 231.52	11 49 55.2 1259.6	12.72 90	6.04 4.32	50 21.742
	19	月	8 19.31 230.81	28 44.4 1270.8	12.52 90	14 1.00 5.04	54 18.296
	20	火	12 10.12 230.13	11 7 22.9 1281.5	12.32 90	13 55.26 5.74	9 58 14.851
							1291.8
	21	水	22 16 0.25 229.46	−10 45 51.1	16 12.11 8.90	−13 48.85	10 2 11.410
	22	木	19 49.71 228.81	24 9.4 + 1301.7	11.89 89	41.75 + 7.10	6 7.969
	23	金	23 38.52 228.17	10 2 18.2 1311.2	11.68 89	34.01 7.74	10 4.528
	24	土	27 26.69 227.56	9 40 17.8 1320.4	11.46 89	25.62 8.39	14 1.085
	25	日	31 14.25 226.96	9 18 8.8 1329.0	11.23 89	16.63 8.99	17 57.640
							1337.3
	26	月	22 35 1.21 226.39	− 8 55 51.5	16 11.00 8.88	−13 7.03	10 21 54.193
	27	火	38 47.60 225.84	33 26.3 + 1345.2	10.77 88	12 56.87 + 10.16	25 50.743
	28	水	42 33.44	8 10 53.5 1352.8	10.54 88	46.15 10.72	29 47.292
3	1	木	22 46 18.75 225.31	− 7 48 13.6 + 1359.9	16 10.30 8.88	−12 34.91 + 11.24	10 33 43.839

水 99

通日	月日		世界時 0h 視黃經	黃緯 平均	黃緯 視	地球ノ動率（對數）	黃經ノ歲差	黃經ノ章動 長	黃經ノ章動 短	赤經ノ章動 長	赤經ノ章動 短	恒星時0h ニ對スル世界時
			° ′ ″ ″	″	″		″	″	″	s	s	h m s
1	1	1	280 13 9.7 3668.4	+0.03	+0.03	9.9923668	0.04	−15.99	+0.23	−0.978	+0.013	17 16 2.74
2	2		281 14 18.1 3668.6	16	16	6657	18	95	+0.22	976	+0.014	12 6.83
3	3		282 15 26.7 3668.9	26	26	6671	31	91	+0.20	973	+0.012	8 10.92
4	4		283 16 35.6 3669.0	34	34	6711	45	87	+0.14	971	+0.008	4 15.01
5	5		284 17 44.6 3669.1	40	39	6777	59	83	+0.05	969	+0.003	17 0 19.10
6	6		285 18 53.7	+0.42	+0.41	9.9923867	0.73	−15.79	−0.04	−0.966	−0.002	16 56 23.19
7	7		286 20 3.1 3669.4	41	40	6980	0.87	75	−0.12	964	−0.008	52 27.27
8	8		287 21 12.5 3669.4	37	36	7115	1.00	72	−0.19	962	−0.012	48 31.36
9	9		288 22 21.9 3669.4	32	31	7271	14	68	−0.23	960	−0.014	44 35.45
10	10		289 23 31.4 3669.5 3669.4	24	23	7448	23	65	−0.25	957	−0.014	40 39.54
11	11		290 24 40.8 3669.3	+0.14	+0.13	9.9927642	1.42	−15.61	−0.21	−0.955	−0.012	16 36 43.63
12	12		291 25 50.1 3669.1	+0.02	+0.01	7854	55	58	−0.14	953	−0.008	32 47.72
13	13		292 26 59.2 3668.7	−0.12	−0.13	8084	69	55	−0.04	952	−0.002	28 51.80
14	14		293 28 7.9 3668.4	26	27	8330	83	52	+0.06	950	+0.004	24 55.89
15	15		294 29 16.3 3667.8	39	41	8592	1.97	49	+0.14	948	+0.009	20 59.98
16	16		295 30 24.1 3667.2	−0.52	−0.54	9.9923859	2.10	−15.46	+0.19	−0.946	+0.011	16 17 4.07
17	17		296 31 31.3 3666.5	63	65	9161	24	44	+0.17	945	+0.010	13 8.16
18	18		297 32 37.8 3665.6	72	74	9470	38	41	+0.13	943	+0.007	9 12.25
19	19		298 33 43.4 3664.8	79	81	9.9929797	52	39	+0.03	941	+0.002	5 16.34
20	20		299 34 48.2 3663.8	83	85	9.9930143	65	37	−0.06	941	−0.003	16 1 20.43
21	21		300 35 52.0 3662.7	−0.83	−0.85	9.9930508	2.79	−15.35	−0.13	−0.939	−0.008	15 57 24.52
22	22		301 36 54.7 3661.7	79	81	0895	2.93	33	−0.17	938	−0.010	53 28.61
23	23		302 37 56.4 3660.7	72	74	1304	3.07	32	−0.14	938	−0.009	49 32.70
24	24		303 38 57.1 3659.7	62	64	1738	20	30	−0.10	937	−0.006	45 36.79
25	25		304 39 56.8 3658.7	50	52	2195	34	29	−0.02	936	−0.001	41 40.87
26	26		305 40 55.5 3657.7	−0.37	−0.39	9.9932679	3.48	−15.23	+0.10	−0.935	+0.005	15 37 44.97
27	27		306 41 53.2 3656.7	24	26	3188	62	27	+0.17	934	+0.009	33 49.06
28	28		307 42 49.9 3655.7	−0.11	14	3724	76	25	+0.21	934	+0.013	29 53.14
29	29		308 43 45.6 3654.9	+0.01	−0.02	4235	3.89	25	+0.23	934	+0.014	25 57.23
30	30		309 44 40.5 3653.9	12	+0.09	4872	4.03	24	+0.20	933	+0.012	22 1.33
31	31		310 45 34.4 3653.1	21	18	5485	17	24	+0.15	933	+0.009	18 5.42
32	2	1	311 46 27.5 3652.1	+0.28	+0.25	9.9936122	4.31	−15.24	+0.07	−0.933	+0.005	15 14 9.51
33		2	312 47 19.6 3651.3	32	29	6782	44	24	−0.02	933	−0.001	10 13.60
34		3	313 48 10.9 3650.4	32	29	7465	58	24	−0.11	932	−0.006	6 17.69
35		4	314 49 1.3 3649.5	30	27	8169	72	24	−0.18	932	−0.011	15 2 21.78
36		5	315 49 50.8 3648.6	25	22	8893	86	25	−0.23	933	−0.014	14 58 25.87
37		6	316 50 39.4 3647.6	+0.19	+0.16	9.9939636	4.99	−15.25	−0.25	−0.933	−0.015	14 54 29.96
38		7	317 51 27.0 3646.6	+0.09	+ 06	9.9940398	5.13	26	−0.23	934	−0.014	50 34.05
39		8	318 52 13.6 3645.7	−0.02	−0.05	1175	27	26	−0.17	934	−0.010	46 38.14
40		9	319 52 59.3 3644.5	15	0.18	1957	41	27	−0.08	935	−0.005	42 42.23
41		10	320 53 43.8 3643.4	23	0.31	2773	54	28	+0.01	935	+0.001	38 46.32
42		11	321 54 27.2 3642.2	−0.41	−0.44	9.9943590	5.68	−15.29	+0.10	−0.936	+0.007	14 34 50.42
43		12	322 55 9.4 3640.8	54	57	4419	82	31	+0.16	936	+0.010	30 54.51
44		13	323 55 50.2 3639.3	66	69	5258	5.96	32	+0.17	937	+0.011	26 58.60
45		14	324 56 29.5 3637.8	75	78	6106	6.10	34	+0.14	939	+0.008	23 2.69
46		15	325 57 7.3 3636.2	83	86	6964	23	36	+0.06	940	+0.004	19 6.78
47		16	326 57 43.5 3634.4	−0.86	−0.89	9.9947832	6.37	−15.38	−0.02	−0.942	−0.001	14 15 10.87
48		17	327 58 17.9 3632.6	86	89	8711	51	40	−0.09	943	−0.006	11 14.96
49		18	328 58 50.5 3630.8	83	86	9.9949602	65	43	−0.15	944	−0.009	7 19.06
50		19	329 59 21.3 3628.9	76	79	9.9950506	78	45	−0.16	946	−0.009	14 3 23.15
51		20	330 59 50.2 3627.0	68	71	1424	6.92	48	−0.10	947	−0.006	13 59 27.24
52		21	332 0 17.2 3625.2	−0.57	−0.60	9.9952358	7.06	−15.51	−0.01	−0.949	−0.002	13 55 31.33
53		22	333 0 42.4 3623.2	45	47	3307	20	54	+0.08	951	+0.004	51 35.43
54		23	334 1 5.6 3621.3	32	34	4273	33	57	+0.16	953	+0.009	47 39.52
55		24	335 1 23.9 3619.5	19	21	5257	47	60	+0.20	955	+0.013	43 43.61
56		25	336 1 46.4 3617.7	−0.06	−0.08	6250	7.61	63	+0.23	957	+0.014	39 47.70
57		26	337 2 4.1 3615.9	+0.05	+0.03	9.9957230	7.75	−15.67	+0.23	−0.959	+0.013	13 35 51.80
58		27	338 2 20.0 3614.2	14	12	8318	7.88	70	+0.18	961	+0.011	31 55.89
59		28	339 2 34.2	24	19	9.9959373	8.02	74	+0.11	963	+0.006	27 59.98
60	3	1	340 2 46.7 3612.5	+0.26	+0.24	9.9960446	8.16	−15.77	+0.01	−0.965	+0.001	13 24 4.07

月	日		視赤經	視赤緯	視半徑	地平視差	時差率（視時−平時）	恒星時
			h m s s	° ′ ″ ″	′ ″	″	m s s	h m s
3	1	木	22 46 18.75 224.79	− 7 48 13.6 +1366.8	16 10.30	8.88	−12 34.91 +11.77	10 33 43.839
	2	金	50 3.54 224.30	25 26.8 1373.1	10.05	88	23.14 12.24	37 40.387
	3	土	53 47.84 223.82	7 2 33.7 1379.1	9.81	88	12 10.90 12.73	41 36.935
	4	日	22 57 31.66 223.38	6 39 34.6 1384.8	9.56	87	11 58.17 13.18	45 33.484
	5	月	23 1 15 04 222.95	6 16 29.8 1390.0	9.31	87	44.99 13.60	49 30.035
	6	火	23 4 57.99 222.55	− 5 53 19.8 +1394.9	16 9.05	8.87	−11 31.39 +14.01	10 53 26.588
	7	水	8 40.54 222.16	30 4.9 1399.4	8.79	87	17.38 14.40	10 57 23.144
	8	木	12 22.70 221.78	5 6 45.5 1403.5	8.53	87	11 2.98 14.76	11 1 19.701
	9	金	16 4.48 221.43	4 43 22.0 1407.2	8.27	86	10 48.22 15.13	5 16.260
	10	土	19 45.91 221.10	4 19 54.8 1410.7	8.00	86	33.09 15.44	9 12.818
	11	日	23 23 27.01 220.79	− 3 56 24.1 +1413.8	16 7.74	8.86	−10 17.65 +15.77	11 13 9.375
	12	月	27 7.80 220.49	32 50.3 1416.3	7.48	86	10 1.88 16.06	17 5.930
	13	火	30 48.29 220.21	3 9 14.0 1418.5	7.22	85	9 45.82 16.34	21 2.481
	14	水	34 28.50 219.95	2 45 35.5 1420.2	6.95	85	29.48 16.60	24 59.030
	15	木	38 8.45 219.69	2 21 55.3 1421.7	6.69	85	9 12.88 16.87	28 55.577
	16	金	23 41 48.14 219.45	− 1 58 13.6 +1422.6	16 6.42	8.85	− 8 56.01 +17.09	11 32 52.125
	17	土	45 27.59 219.24	34 31.0 1423.2	6.16	84	38.92 17.32	36 48.673
	18	日	49 6.83 219.04	1 10 47.8 1423.4	5.89	84	21.60 17.52	40 45.225
	19	月	52 45.87 218.85	0 47 4.4 1423.3	5.63	84	8 4.08 17.70	44 41.779
	20	火	23 56 24.72 218.69	− 0 23 21.1 1422.7	5.36	84	7 46.38 17.86	48 38.337
	21	水	0 0 3.41 218.55	+ 0 0 21.6 +1421.8	16 5.09	8.83	− 7 28.52 +18.01	11 52 34.895
	22	木	3 41.96 218.43	24 3.4 1420.5	4.82	83	7 10.51 18.12	11 56 31.454
	23	金	7 20.39 218.33	0 47 43.9 1418.9	4.56	83	6 52.39 18.23	12 0 28.010
	24	土	10 58.72 218.25	1 11 22.8 1416.9	4.29	83	34.16 18.29	4 24.565
	25	日	14 36.97 218.20	34 59.7 1414.6	4.02	82	6 15.87 18.36	8 21.117
	26	月	0 18 15.17 218.17	+ 1 58 34.3 +1411.9	16 3.74	8.82	− 5 57.51 +18.37	12 12 17.668
	27	火	21 53.34 218.17	2 22 6.2 1408.8	3.47	82	39.14 18.39	16 14.215
	28	水	25 31.51 218.18	2 45 35.0 1405.5	3.20	82	20.75 18.37	20 10.763
	29	木	29 9.69 218.22	3 9 0.5 1401.9	2.92	81	5 2.38 18.33	24 7.310
	30	金	32 47.91 218.28	32 22.4 1397.9	2.64	81	4 44.05 18.26	28 3.858
	31	土	36 26.19 218.38	3 55 40.3 1393.5	2.36	81	25.79 18.19	32 0.406
4	1	日	0 40 4.57 218.48	+ 4 18 53.8 +1388.8	16 2.08	8.81	− 4 7.60 +18.07	12 35 56.956
	2	月	43 43.05 218.60	4 42 2.6 1383.8	1.80	80	3 49.53 17.96	39 53.507
	3	火	47 21.65 218.75	5 5 6.4 1378.5	1.52	80	31.57 17.80	43 50.062
	4	水	51 0.40 218.92	28 4.9 1372.9	1.23	80	3 13.77 17.63	47 46.619
	5	木	54 39.32 219.11	5 50 57.8 1366.9	0.95	80	2 56.14 17.45	51 43.176
	6	金	0 58 18.43 219.32	+ 6 13 44.7 +1360.5	16 0.67	8.79	− 2 38.69 +17.23	12 55 39.735
	7	土	1 1 57.75 219.55	36 25.2 1353.9	0.39	79	21.46 17.00	12 59 36.292
	8	日	5 37.30 219.79	6 58 59.1 1346.9	16 0.11	79	2 4.46 16.76	13 3 32.848
	9	月	9 17.09 220.05	7 21 26.0 1339.6	15 59.83	79	1 47.70 16.51	7 29.401
	10	火	12 57.14 220.32	7 43 45.6 1331.8	59.55	78	31.19 16.23	11 25.952
	11	水	1 16 37.46 220.61	+ 8 5 57.4 +1323.8	15 59.28	8.78	− 1 14.96 +15.94	13 15 22.500
	12	木	20 18.07 220.90	28 1.2 1315.3	59.00	78	0 59.02 15.65	19 19.047
	13	金	23 58.97 221.21	8 49 56.5 1306.5	58.73	78	43.37 15.34	23 15.596
	14	土	27 40.18 221.54	9 11 43.0 1297.3	58.46	77	28.03 15.02	27 12.148
	15	日	31 21.72 221.87	33 20.3 1287.7	58.20	77	− 0 13.01 14.69	31 8.702
	16	月	1 35 3.59 222.21	+ 9 54 48.0 +1277.9	15 57.93	8.77	+ 0 1.68 +14.34	13 35 5.261
	17	火	38 45.80 222.56	10 16 5.9 1267.6	57.67	77	16.02 13.99	39 1.819
	18	水	42 28.36 222.94	37 13.5 1257.0	57.41	76	30.01 13.62	42 58.379
	19	木	46 11.30 223.32	10 58 10.5 1246.0	57.16	76	43.63 13.23	46 54.938
	20	金	49 54.62 223.71	11 18 56.5 1234.8	56.90	76	0 56.86 12.84	50 51.495
	21	土	1 53 38.33 224.13	+11 39 31.3 +1223.2	15 56.65	8.76	+ 1 9.70 +12.42	13 54 48.049
	22	日	1 57 22.46 224.56	11 59 54.5 1211.3	56.39	75	22.12 12.00	13 58 44.601
	23	月	2 1 7.02 225.00	12 20 5.8 1199.0	56.14	75	34.12 11.55	14 2 41.152
	24	火	4 52.02 225.46	40 4.8 1186.5	55.89	75	45.67 11.10	6 37.700
	25	水	8 37.48 225.93	12 59 51.3 1173.6	55.64	75	1 56.77 10.62	10 34.248
	26	木	2 12 23.41 226.41	+13 19 24.9 +1160.4	15 55.39	8.74	+ 2 7.39 +10.15	14 14 30.798
	27	金	16 9.82 226.90	38 45.3 1147.0	55.14	74	17.54 9.65	18 27.347
	28	土	19 56.72 227.42	13 57 52.3 1133.2	54.89	74	27.19 9.13	22 23.899
	29	日	23 44.14 227.94	14 16 45.5 1119.1	54.65	74	36.32 8.62	26 20.452
	30	月	27 32.08 228.47	35 24.6 +1104.7	54.40	73	44.94 + 8.08	30 17.008
5	1	火	2 31 20.55	+14 53 49.3	15 54.16	8.73	+ 2 53.02	14 34 13.566

通日	月	日	世界時 0h 視黃經	黃緯 平均	黃緯 視	地球ノ動徑（對數）	黃經ノ歲差	黃經ノ章動 長	黃經ノ章動 短	赤經ノ章動 長	赤經ノ章動 短	恒星時0h ニ對スル世界時
			° ′ ″ ″	″	″		″	″	″	s	s	h m s
60	3	1	340 2 46.7 3610.8	+0.26	+0.24	9.9960446	8.16	−15.77	+0.01	−0.965	+0.001	13 24 4.07
61		2	341 2 57.5 3609.1	28	26	1535	30	81	−0.07	968	−0.004	20 8.17
62		3	342 3 6.6 3607.5	27	25	2640	43	85	−0.15	970	−0.009	16 12.26
63		4	343 3 14.1 3605.9	24	22	3759	57	89	−0.21	973	−0.013	12 16.35
64		5	344 3 20.0 3604.2	16	15	4893	71	93	−0.24	975	−0.015	8 20.45
65		6	345 3 24.2 3602.7	+0.08	+0.07	9.9966038	8.85	−15.97	−0.23	−0.977	−0.015	13 4 24.54
66		7	346 3 26.9 3601.0	−0.02	−0.03	7194	8.99	16.01	−0.20	980	−0.012	13 0 28.63
67		8	347 3 27.9 3599.5	14	15	8360	9.12	05	−0.12	982	−0.007	12 56 32.72
68		9	348 3 27.4 3597.8	27	28	9.9969535	26	09	−0.03	985	−0.002	52 36.82
69		10	349 3 25.2 3596.1	40	41	9.9970715	40	14	+0.07	988	+0.004	48 40.91
70		11	350 3 21.3 3594.5	−0.53	−0.54	9.9971900	9.54	−16.18	+0.12	−0.990	+0.008	12 44 45.00
71		12	351 3 15.8 3592.6	63	64	3088	67	23	+0.16	993	+0.010	40 49.10
72		13	352 3 8.4 3590.8	73	73	4278	81	28	+0.13	996	+0.009	36 53.19
73		14	353 2 59.2 3588.8	80	80	5468	9.95	33	+0.08	0.999	+0.005	32 57.28
74		15	354 2 48.0 3586.8	85	85	6658	10.09	37	−0.01	1.001	0.000	29 1.38
75		16	355 2 34.8 3584.7	−0.85	−0.85	9.9977848	10.22	−16.42	−0.08	−1.004	−0.005	12 25 5.47
76		17	356 2 19.5 3582.4	83	83	9.9979038	36	46	−0.15	007	−0.009	21 9.56
77		18	357 2 1.9 3580.2	77	77	9.9980228	50	51	−0.14	010	−0.009	17 13.66
78		19	358 1 42.1 3577.8	69	68	1420	64	56	−0.12	013	−0.007	13 17.75
79		20	359 1 19.9 3575.6	59	58	2613	77	61	−0.04	016	−0.003	9 21.84
80		21	0 0 55.5 3573.2	−0.46	−0.45	9.9983811	10.91	−16.65	+0.05	−1.018	+0.003	12 5 25.94
81		22	1 0 28.7 3570.9	33	32	5012	11.05	70	+0.15	021	+0.009	12 1 30.03
82		23	1 59 59.6 3568.7	20	19	6219	19	75	+0.22	024	+0.013	11 57 34.13
83		24	2 59 28.3 3566.4	−0.09	−0.07	7432	32	80	+0.24	027	+0.015	53 38.22
84		25	3 58 54.7 3564.1	+0.02	+0.04	8653	46	84	+0.25	030	+0.015	49 42.31
85		26	4 58 18.8 3562.0	+0.11	+0.13	9.9989879	11.60	−16.89	+0.20	−1.033	+0.012	11 45 46.40
86		27	5 57 40.8 3559.9	19	21	9.9991113	74	94	+0.13	036	+0.008	41 50.50
87		28	6 57 0.7 3557.8	24	26	2352	11.88	16.99	+0.04	039	+0.003	37 54.59
88		29	7 56 18.5 3555.8	25	28	3600	12.01	17.04	−0.03	041	−0.002	33 58.69
89		30	8 55 34.3 3553.8	25	28	4853	15	08	−0.12	044	−0.007	30 2.78
90		31	9 54 48.1 3551.8	21	24	6112	29	13	−0.19	047	−0.011	26 6.87
91	4	1	10 53 59.9 3549.9	+0.15	+0.18	9.9997377	12.43	−17.17	−0.24	−1.050	−0.014	11 22 10.97
92		2	11 53 9.8 3548.1	+0.06	+0.10	8647	56	22	−0.24	053	−0.014	18 15.06
93		3	12 52 17.9 3546.3	−0.04	00	9.9999920	70	26	−0.22	055	−0.013	14 19.15
94		4	13 51 24.2 3544.4	15	−0.11	0.0001196	84	31	−0.14	058	−0.009	10 23.25
95		5	14 50 28.6 3542.8	28	24	2471	12.98	35	−0.05	061	−0.004	6 27.34
96		6	15 49 31.4 3541.0	−0.41	−0.37	0.0003747	13.11	−17.39	+0.02	−1.063	+0.002	11 2 31.43
97		7	16 48 32.4 3539.2	55	50	5021	25	43	+0.11	066	+0.006	10 58 35.52
98		8	17 47 31.6 3537.5	67	62	6291	39	47	+0.15	068	+0.009	54 39.62
99		9	18 46 29.1 3535.8	76	71	7555	53	51	+0.13	071	+0.008	50 43.71
100		10	19 45 24.9 3533.9	83	78	0.0008812	66	55	+0.09	073	+0.005	46 47.80
101		11	20 44 18.8 3532.1	−0.88	−0.82	0.0010060	13.80	−17.58	0.00	−1.075	+0.000	10 42 51.89
102		12	21 43 10.9 3530.1	90	84	1298	13.94	62	−0.07	077	−0.005	38 55.99
103		13	22 42 1.0 3528.0	88	82	2526	14.08	65	−0.15	079	−0.009	35 0.08
104		14	23 40 49.0 3525.9	83	76	3742	21	69	−0.16	081	−0.011	31 4.17
105		15	24 39 34.9 3523.8	76	69	4946	35	72	−0.14	083	−0.009	27 8.27
106		16	25 38 18.7 3521.6	−0.66	−0.59	0.0016140	14.49	−17.75	−0.08	−1.085	−0.005	10 23 12.36
107		17	26 37 0.3 3519.4	54	47	7324	63	78	+0.02	087	+0.001	19 16.45
108		18	27 35 39.7 3517.1	42	34	8500	77	81	+0.13	089	+0.007	15 20.54
109		19	28 34 16.8 3514.9	29	21	0.0019667	14.90	84	+0.21	090	+0.012	11 24.64
110		20	29 32 51.7 3512.8	16	−0.08	0.0020829	15.04	87	+0.26	092	+0.015	7 28.73
111		21	30 31 24.5 3510.5	−0.06	+0.02	000.21984	15.18	−17.89	+0.26	−1.094	+0.016	10 3 32.82
112		22	31 29 55.0 3508.4	+0.03	12	3134	32	92	+0.24	095	+0.014	9 59 36.91
113		23	32 28 23.4 3506.4	10	19	4279	45	94	+0.17	097	+0.010	55 41.00
114		24	33 26 49.8 3504.4	15	24	5421	59	96	+0.10	098	+0.005	51 45.10
115		25	34 25 14.2 3502.4	17	26	6558	73	17.98	−0.01	100	0.000	47 49.19
116		26	35 23 36.6 3500.5	+0.15	+0.25	0.0027692	15.87	−18.00	−0.09	−1.101	−0.005	9 43 53.28
117		27	36 21 57.1 3498.6	12	22	8822	16.00	01	−0.17	101	−0.010	39 57.37
118		28	37 20 15.7 3496.9	+0.06	16	0.0029948	14	02	−0.20	102	−0.012	36 1.46
119		29	38 18 32.6 3495.1	−0.02	+0.09	0.0031070	28	03	−0.22	103	−0.013	32 5.55
120		30	39 16 47.7 3493.5	0.13	−0.02	2189	42	04	−0.20	103	−0.012	28 9.65
121	5	1	40 15 1.2	−0.25	−0.14	0.0033301	16.55	−18.05	−0.15	−1.104	−0.009	9 24 13.74

月	日		視赤經	視赤緯	視半徑	地平視差	時差率（視時−平時）	恒星時
			h m s s	° ′ ″ ″	′ ″ ″		m s s	h m s
5	1	火	2 31 20.55 229.02	+14 53 49.3 1090.0	15 54.16	8.73	+ 2 53.02 + 7.54	14 34 13.566
	2	水	35 9.57 229.57	15 11 59.3 1075.0	53.91	73	3 0.56 + 6.98	38 10.126
	3	木	38 59.14 230.13	29 54.3 1059.8	53.67	73	7.54 6.43	42 6.686
	4	金	42 49.27 230.71	15 47 34.1 1044.2	53.43	73	13.97 5.85	46 3.246
	5	土	46 39.98 231.28	16 4 58.3 1028.3	53.19	72	19.82 5.27	49 59.804
	6	日	2 50 31.26 231.86	+16 22 6.6 1012.1	15 52.96	8.72	+ 3 25.09 + 4.70	14 53 56.360
	7	月	54 23.12 232.45	38 58.7 995.6	52.73	72	29.79 4.10	14 57 52.912
	8	火	2 58 15.57 233.03	16 55 34.3 978.7	52.50	72	33.89 3.52	15 1 49.463
	9	水	3 2 8.60 233.62	17 11 53.0 961.6	52.27	72	37.41 2.94	5 46.013
	10	木	6 2.22 234.20	27 54.6 944.2	52.05	71	40.35 2.35	9 42.563
	11	金	3 9 56.42 234.78	+17 43 38.8 926.4	15 51.83	8.71	+ 3 42.70 + 1.78	15 13 39.115
	12	土	13 51.20 235.36	17 59 5.2 908.3	51.62	71	44.48 1.20	17 35.671
	13	日	17 46.56 235.92	18 14 13.5 890.0	51.41	71	45.68 0.63	21 32.230
	14	月	21 42.48 236.49	29 3.5 871.2	51.21	71	46.31 0.07	25 28.791
	15	火	25 38.97 237.04	43 34.7 852.1	51.01	70	46.38 − 0.48	29 25.354
	16	水	3 29 36.01 237.59	+18 57 46.8 832.9	15 50.81	8.70	+ 3 45.90 − 1.04	15 33 21.916
	17	木	33 33.60 238.14	19 11 39.7 813.4	50.62	70	44.86 1.58	37 18.477
	18	金	37 31.74 238.68	25 13.1 793.6	50.43	70	43.28 2.12	41 15.036
	19	土	41 30.42 239.21	38 26.7 773.4	50.25	70	41.16 2.65	45 11.591
	20	日	45 29.63 239.73	19 51 20.1 753.0	50.07	70	38.51 3.18	49 8.144
	21	月	3 49 29.36 240.26	+20 3 53.1 732.4	15 49.89	8.69	+ 3 35.33 − 3.71	15 53 4.696
	22	火	53 29.62 240.78	16 5.5 711.5	49.71	69	31.62 4.23	15 57 1.246
	23	水	3 57 30.40 241.30	27 57.0 690.5	49.54	69	27.39 4.73	16 0 57.797
	24	木	4 1 31.70 241.80	39 27.5 669.2	49.37	69	22.66 5.24	4 54.349
	25	金	5 33.50 242.28	20 50 36.7 647.7	49.21	69	17.42 5.73	8 50.902
	26	土	4 9 35.78 242.78	+21 1 24.4 625.9	15 49.04	8.69	+ 3 11.69 − 6.22	16 12 47.458
	27	日	13 38.56 243.26	11 50.3 604.0	48.88	68	3 5.47 6.69	16 44.015
	28	月	17 41.82 243.73	21 54.3 581.8	48.72	68	2 58.78 7.18	20 40.575
	29	火	21 45.55 244.19	31 36.1 559.5	48.57	68	51.60 7.63	24 37.136
	30	水	25 49.74 244.64	40 55.6 537.0	48.41	68	43.97 8.09	28 33.699
	31	木	29 54.38 245.08	49 52.6 514.3	48.26	68	35.88 8.52	32 30.260
6	1	金	4 33 59.46 245.50	+21 58 26.9 491.4	15 48.11	8.68	+ 2 27.36 − 8.95	16 36 26.821
	2	土	38 4.96 245.92	22 6 38.3 468.4	47.97	68	18.41 9.36	40 23.379
	3	日	42 10.88 246.32	14 26.7 445.2	47.83	68	2 9.05 9.76	44 19.935
	4	月	46 17.20 246.70	21 51.9 421.8	47.69	67	1 59.29 10.14	48 16.488
	5	火	50 23.90 247.06	28 53.7 398.2	47.55	67	49.15 10.51	52 13.039
	6	水	4 54 30.96 247.39	+22 35 31.9 374.5	15 47.42	8.67	+ 1 38.64 − 10.83	16 56 9.590
	7	木	4 58 38.35 247.71	41 46.4 350.8	47.30	67	27.81 11.16	17 0 6.144
	8	金	5 2 46.06 248.01	47 37.2 326.8	47.18	67	16.65 11.45	4 2.700
	9	土	6 54.07 248.28	53 4.0 302.6	47.07	67	1 5.20 11.73	7 59.259
	10	日	11 2.35 248.53	22 58 6.6 278.4	46.96	67	0 53.47 11.96	11 55.822
	11	月	5 15 10.88 248.75	+23 2 45.0 254.1	15 46.85	8.67	+ 0 41.51 − 12.19	17 15 52.385
	12	火	19 19.63 248.93	6 59.1 229.6	46.75	67	29.32 12.37	19 48.949
	13	水	23 28.56 249.08	10 48.7 205.1	46.66	66	16.95 12.54	23 45.512
	14	木	27 37.64 249.22	14 13.8 180.5	46.58	66	+ 0 4.41 12.66	27 42.073
	15	金	31 46.86 249.34	17 14.3 155.8	46.50	66	− 0 8.25 12.79	31 38.630
	16	土	5 35 56.20 249.44	+23 19 50.1 131.1	15 46.42	8.66	− 0 21.04 − 12.87	17 35 35.186
	17	日	40 5.64 249.50	22 1.2 106.3	46.35	66	33.91 12.94	39 31.740
	18	月	44 15.14 249.54	23 47.5 81.5	46.28	66	46.85 12.98	43 28.291
	19	火	48 24.68 249.55	25 9.0 56.7	46.21	66	0 59.83 13.00	47 24.843
	20	水	52 34.23 249.55	26 5.7 31.9	46.15	66	1 12.83 12.99	51 21.395
	21	木	5 56 43.78 249.53	+23 26 37.6 7.0	15 46.10	8.66	− 1 25.82 − 12.97	17 55 17.949
	22	金	6 0 53.31 249.48	26 44.6 − 17.8	46.05	66	38.79 12.92	17 59 14.504
	23	土	5 2.79 249.41	26 26.8 42.6	46.00	66	1 51.71 12.86	18 3 11.062
	24	日	9 12.20 249.32	25 44.2 67.3	45.95	66	2 4.57 12.77	7 7.622
	25	月	13 21.52 249.22	24 36.9 92.0	45.91	66	17.34 12.65	11 4.183
	26	火	6 17 30.74 249.09	+23 23 4.9 116.7	15 45.87	8.66	− 2 29.99 − 12.54	18 15 0.747
	27	水	21 39.83 248.94	21 8.2 141.3	45.83	66	42.53 12.38	18 57.310
	28	木	25 48.77 248.78	18 46.9 165.8	45.80	66	2 54.91 12.22	22 53.872
	29	金	29 57.55 248.60	16 1.1 190.3	45.77	66	3 7.13 12.04	26 50.432
	30	土	34 6.15 248.40	12 50.8 214.7	45.75	66	19.17 − 11.84	30 46.989
7	1	日	6 38 14.55	+23 9 16.1	15 45.73	8.66	− 3 31.01	18 34 43.543

通日	月	日	世界時 0h 視黃經	黃緯 平均	黃緯 視	地球ノ動徑（對數）	黃經ノ歲差	黃經ノ章動 長	黃經ノ章動 短	赤經ノ章動 長	赤經ノ章動 短	恒星時0h ニ對スル世界時
			° ′ ″ ″	″	″		″	″	″	s	s	h m s
121	5	1	40 15 1.2 3491.9	−0.25	−0.14	0.0033301	16.55	−18.05	−0.15	−1.104	−0.009	9 24 13.74
122		2	41 13 13.1 3490.4	38	27	4408	69	06	−0.08	104	−0.005	20 17.83
123		3	42 11 23.5 3488.9	51	39	5507	83	07	0.00	105	0.000	16 21.92
124		4	43 9 32.4 3487.5	64	52	6600	16.97	08	+0.09	105	+0.005	12 26.01
125		5	44 7 39.9 3486.1	76	64	7682	17.10	08	+0.13	106	+0.008	8 30.10
126		6	45 5 46.0 3484.8	−0.88	−0.75	0.0038754	17.24	−18.09	+0.13	−1.106	+0.008	9 4 34.19
127		7	46 3 50.8 3483.4	0.96	83	0.0039811	38	09	+0.10	106	+0.006	9 0 38.28
128		8	47 1 54.2 3482.1	1.02	89	0.0040855	52	10	+0.03	106	+0.002	8 56 42.37
129		9	47 59 56.3 3480.6	03	90	1882	66	10	−0.07	107	−0.004	52 46.46
130		10	48 57 56.9 3479.2	1.02	88	2892	79	10	−0.15	107	−0.009	48 50.55
131		11	49 55 56.1 3477.8	−0.97	−0.83	0.0043883	17.93	−18.10	−0.19	−1.107	−0.012	8 44 54.64
132		12	50 53 53.9 3476.2	89	75	4854	18.07	10	−0.18	106	−0.011	40 58.73
133		13	51 51 50.1 3474.6	79	65	5805	21	09	−0.11	106	−0.008	37 2.82
134		14	52 49 44.7 3472.9	69	54	6736	34	08	−0.04	105	−0.002	33 6.91
135		15	53 47 37.6 3471.2	56	41	7647	48	07	+0.08	105	+0.004	29 11.00
136		16	54 45 28.8 3469.6	−0.42	−0.27	0.0048539	18.62	−18.06	+0.17	−1.104	+0.010	8 25 15.09
137		17	55 43 18.4 3467.9	28	13	0.0049413	76	05	+0.23	103	+0.015	21 19.18
138		18	56 41 6.3 3466.2	17	−0.01	0.0050271	18.89	04	+0.26	103	+0.017	17 23.27
139		19	57 38 52.5 3464.5	−0.08	+0.08	1113	19.03	02	+0.25	102	+0.016	13 27.36
140		20	58 36 37.0 3462.9	0.00	16	1940	17	18.01	+0.20	101	+0.012	9 31.45
141		21	59 34 19.9 3461.4	+0.05	+0.21	0.0052753	19.31	−17.99	+0.13	−1.100	+0.007	8 5 35.54
142		22	60 32 1.3 3459.9	07	24	3553	44	97	+0.03	098	+0.002	8 1 39.63
143		23	61 29 41.2 3458.4	07	24	4340	58	95	−0.05	097	−0.004	7 57 43.72
144		24	62 27 19.6 3457.0	+0.04	21	5115	72	93	−0.14	096	−0.008	53 47.81
145		25	63 24 56.6 3455.7	−0.01	16	5878	19.86	91	−0.19	095	−0.011	49 51.90
146		26	64 22 32.3 3454.4	−0.10	+0.08	0.0056630	20.00	−17.89	−0.23	−1.093	−0.013	7 45 55.99
147		27	65 20 6.7 3453.3	20	−0.02	7370	13	86	−0.21	092	−0.012	42 0.08
148		28	66 17 40.0 3452.2	31	13	8099	27	84	−0.17	090	−0.010	38 4.17
149		29	67 15 12.2 3451.1	43	25	8816	41	81	−0.09	089	−0.005	34 8.25
150		30	68 12 43.3 3450.3	57	39	0.0059522	55	79	0.00	087	0.000	30 12.34
151		31	69 10 13.6 3449.4	71	52	0.0060215	68	76	+0.07	086	+0.004	26 16.43
152	6	1	70 7 43.0 3448.6	−0.83	−0.64	0.0060895	20.82	−17.74	+0.13	−1.084	+0.008	7 22 20.52
153		2	71 5 11.6 3447.8	0.92	73	1561	20.96	71	+0.16	082	+0.009	18 24.61
154		3	72 2 39.4 3447.2	1.00	81	2212	21.10	68	+0.13	081	+0.007	14 28.70
155		4	73 0 6.6 3446.6	07	87	2844	23	65	+0.06	079	+0.003	10 32.79
156		5	73 57 33.2 3446.0	11	91	3458	37	62	−0.05	077	−0.002	6 36.88
157		6	74 54 59.2 3445.3	−1.10	−0.90	0.0064052	21.51	−17.59	−0.13	−1.075	−0.008	7 2 40.97
158		7	75 52 24.5 3444.7	1.05	85	4624	65	56	−0.19	073	−0.011	6 58 45.05
159		8	76 49 49.2 3444.1	0.97	77	5172	78	53	−0.20	072	−0.013	54 49.14
160		9	77 47 13.3 3443.3	87	67	5695	21.92	50	−0.17	070	−0.011	50 53.23
161		10	78 44 36.6 3442.6	76	55	6194	22.06	46	−0.08	068	−0.006	46 57.32
162		11	79 41 59.2 3441.8	−0.62	−0.41	0.0066668	22.20	−17.43	+0.02	−1.066	+0.001	6 43 1.41
163		12	80 39 21.0 3441.0	48	27	7115	33	39	+0.13	064	+0.007	39 5.50
164		13	81 36 42.0 3440.1	34	13	7538	47	36	+0.21	062	+0.013	35 9.59
165		14	82 34 2.1 3439.2	22	−0.01	7936	61	32	+0.25	060	+0.016	31 13.67
166		15	83 31 21.3 3438.4	11	+0.10	8311	75	29	+0.26	057	+0.016	27 17.76
167		16	84 28 39.7 3437.6	−0.02	+0.19	0.0068664	22.89	−17.25	+0.22	−1.055	+0.014	6 23 21.85
168		17	85 25 57.3 3436.7	+0.04	26	8996	23.02	21	+0.15	053	+0.009	19 25.94
169		18	86 23 14.0 3436.0	08	30	9308	16	17	+0.07	051	+0.004	15 30.03
170		19	87 20 30.0 3435.2	08	30	9600	30	14	−0.03	048	−0.002	11 34.12
171		20	88 17 45.2 3434.5	07	29	0.0069874	44	10	−0.10	046	−0.007	7 38.21
172		21	89 14 59.7 3434.0	+0.02	+0.24	0.0070130	23.57	−17.06	−0.18	−1.044	−0.011	6 3 42.29
173		22	90 12 13.7 3433.3	−0.05	17	0369	71	17.02	−0.21	041	−0.013	5 59 46.38
174		23	91 9 27.0 3432.8	14	+0.08	0593	85	16.99	−0.21	039	−0.012	55 50.47
175		24	92 6 39.8 3432.4	24	−0.02	0801	23.99	95	−0.19	037	−0.010	51 54.56
176		25	93 3 52.2 3432.1	37	15	0994	24.12	91	−0.11	034	−0.006	47 58.65
177		26	94 1 4.3 3431.8	−0.50	−0.28	0.0071172	24.26	−16.87	−0.03	−1.032	−0.001	5 44 2.73
178		27	94 58 16.1 3431.7	63	41	1336	40	83	+0.06	029	+0.004	40 6.82
179		28	95 55 27.8 3431.6	76	53	1486	54	80	+0.14	027	+0.008	36 10.91
180		29	96 52 39.4 3431.7	87	64	1620	67	76	+0.16	025	+0.010	32 15.00
181		30	97 49 51.1 3431.7	0.96	73	1739	81	73	+0.16	023	+0.009	28 19.09
182	7	1	98 47 2.8	−1.02	−0.79	0.0071841	24.95	−16.69	+0.09	−1.021	+0.006	5 24 23.18

月	日		視赤經	視赤緯	視半徑	地平視差	時差率（視時−平時）	恒星時
			h m s s	° ′ ″ ″	′ ″	″	m s s	h m s
7	1	日	6 38 14.55 248.17	+23 9 16.1 238.9	15 45.73	8.66	− 3 31.01	18 34 43.543
	2	月	42 22.72 247.93	5 17.2 263.1	45.71	66	42.63	38 40.096
	3	火	46 30.65 247.68	23 0 54.1 287.3	45.69	66	3 54.00	42 36.647
	4	水	50 38.33 247.39	22 56 6.8 311.2	45.68	66	4 5.12	46 33.199
	5	木	54 45.72 247.09	50 55.6 335.1	45.68	66	15.95	50 29.755
	6	金	6 58 52.81 246.76	+22 45 20.5 358.8	15 45.68	8.66	− 4 26.48	18 54 26.312
	7	土	7 2 59.57 246.41	39 21.7 382.4	45.69	66	36.69	18 58 22.873
	8	日	7 5.98 246.03	32 59.3 405.9	45.70	66	46.54	19 2 19.436
	9	月	11 12.01 245.64	26 13.4 429.2	45.72	66	4 56.01	6 16.000
	10	火	15 17.65 245.22	19 4.2 452.2	45.74	66	5 5.10	10 12.563
	11	水	7 19 22.87 244.77	+22 11 32.0 475.1	15 45.77	8.66	− 5 13.76	19 14 9.124
	12	木	23 27.64 244.31	22 3 36.9 497.8	45.80	66	21.98	18 5.683
	13	金	27 31.95 243.84	21 55 19.1 520.4	45.84	66	29.73	22 2.240
	14	土	31 35.79 243.35	46 38.7 542.8	45.89	66	37.01	25 58.793
	15	日	35 39.14 242.83	37 35.9 565.0	45.94	66	43.80	29 55.345
	16	月	7 39 41.97 242.30	+21 28 10.9 586.9	15 45.99	8.66	− 5 50.07	19 33 51.896
	17	火	43 44.27 241.77	18 24.0 608.5	46.05	66	5 55.82	37 48.447
	18	水	47 46.04 241.23	21 8 15.5 629.9	46.12	66	6 1.04	41 45.000
	19	木	51 47.27 240.67	20 57 45.6 651.2	46.19	66	5.70	45 41.554
	20	金	55 47.94 240.10	46 54.4 672.2	46.26	66	9.81	49 38.110
	21	土	7 59 48.04 239.52	+20 35 42.2 692.9	15 46.34	8.66	− 6 13.36	19 53 34.668
	22	日	8 3 47.56 238.94	24 9.3 713.4	46.42	66	16.33	19 57 31.229
	23	月	7 46.50 238.37	12 15.9 733.7	46.50	66	18.71	20 1 27.791
	24	火	11 44.87 237.78	20 0 2.2 753.6	46.58	66	20.52	5 24.352
	25	水	15 42.65 237.19	19 47 28.6 773.3	46.67	66	21.73	9 20.913
	26	木	8 19 39.84 236.60	+19 34 35.3 792.8	15 46.77	8.66	− 6 22.37	20 13 17.472
	27	金	23 36.44 236.02	21 22.5 812.1	46.86	67	22.41	17 14.029
	28	土	27 32.46 235.43	19 7 50.4 831.0	46.96	67	21.88	21 10.582
	29	日	31 27.89 234.84	18 53 59.4 849.7	47.06	67	20.75	25 7.133
	30	月	35 22.73 234.25	39 49.7 868.2	47.16	67	19.04	29 3.682
	31	火	39 16.98 233.67	25 21.5 886.4	47.27	67	16.74	33 0.233
8	1	水	8 43 10.65 233.09	+18 10 35.1 904.2	15 47.38	8.67	− 6 13.86	20 36 56.786
	2	木	47 3.74 232.51	17 55 30.9 921.8	47.50	67	10.39	40 53.340
	3	金	50 56.25 231.92	40 9.1 939.1	47.62	67	6.34	44 49.899
	4	土	54 48.17 231.33	24 30.0 956.2	47.74	67	6 1.70	48 46.460
	5	日	8 58 39.50 230.74	17 8 33.8 972.9	47.87	68	5 56.48	52 43.021
	6	月	9 2 30.24 230.15	+16 52 20.9 989.3	15 48.00	8.68	− 5 50.66	20 56 39.583
	7	火	6 20.39 229.57	35 51.6 1005.4	48.14	68	44.26	21 0 36.143
	8	水	10 9.96 228.98	19 6.2 1021.2	48.29	68	37.27	4 32.700
	9	木	13 58.94 228.39	16 2 5.0 1036.6	48.44	68	29.70	8 29.255
	10	金	17 47.33 227.81	15 44 48.4 1051.8	48.59	68	21.53	12 25.807
	11	土	9 21 35.14 227.22	+15 27 16.6 1066.7	15 48.75	8.68	− 5 12.78	21 16 22.357
	12	日	25 22.36 226.64	15 9 29.9 1081.3	48.91	68	5 3.45	20 18.907
	13	月	29 9.00 226.07	14 51 28.6 1095.4	49.08	69	4 53.54	24 15.456
	14	火	32 55.07 225.52	33 13.2 1109.2	49.25	69	43.06	28 12.005
	15	水	36 40.59 224.96	14 14 44.0 1122.8	49.43	69	32.02	32 8.556
	16	木	9 40 25.55 224.42	+13 56 1.2 1136.0	15 49.61	8.69	− 4 20.43	21 36 5.109
	17	金	44 9.97 223.88	37 5.2 1148.9	49.80	69	4 8.29	40 1.665
	18	土	47 53.85 223.36	13 17 56.3 1161.5	49.99	69	3 55.62	43 58.221
	19	日	51 37.21 222.85	12 58 34.8 1173.7	50.18	70	42.43	47 54.780
	20	月	55 20.06 222.36	39 1.1 1185.7	50.37	70	28.73	51 51.341
	21	火	9 59 2.42 221.88	+12 19 15.4 1197.4	15 50.57	8.70	− 3 14.53	21 55 47.899
	22	水	10 2 44.30 221.41	11 59 18.0 1208.8	50.76	70	2 59.85	21 59 44.457
	23	木	6 25.71 220.96	39 9.2 1219.7	50.96	70	44.70	22 3 41.012
	24	金	10 6.67 220.54	11 18 49.5 1230.4	51.16	70	29.11	7 37.565
	25	土	13 47.21 220.13	10 58 19.1 1240.9	51.37	71	2 13.10	11 34.115
	26	日	10 17 27.34 219.74	+10 37 38.2 1251.0	15 51.57	8.71	− 1 56.67	22 15 30.662
	27	月	21 7.08 219.37	10 16 47.2 1260.9	51.78	71	39.86	19 27.211
	28	火	24 46.45 219.02	9 55 46.3 1270.5	51.99	71	22.68	23 23.761
	29	水	28 25.47 218.68	34 35.8 1279.8	52.20	71	1 5.14	27 20.313
	30	木	32 4.15 218.35	9 13 16.0 1288.6	52.41	72	0 47.27	31 16.869
	31	金	35 42.50 218.04	8 51 47.4 1297.2	52.62	72	29.07	35 13.426
9	1	土	10 39 20.54	+ 8 30 10.2	15 52.84	8.72	− 0 10.56	22 39 9.985

月	日		視赤經	視赤緯	視半徑	地平視差	時差率（視時−平時）	恒星時
			h m s s	° ′ ″ ″	′ ″	″	m s s	h m s
7	1	日	6 38 14.55 248.17	+23 9 16.1 238.9	15 45.73	8.66	− 3 31.01	18 34 43.543
	2	月	42 22.72 247.93	5 17.2 263.1	45.71	66	42.63	38 40.096
	3	火	46 30.65 247.68	23 0 54.1 287.3	45.69	66	3 54.00	42 36.647
	4	水	50 38.33 247.39	22 56 6.8 311.2	45.68	66	4 5.12	46 33.199
	5	木	54 45.72 247.09	50 55.6 335.1	45.68	66	15.95	50 29.755
	6	金	6 58 52.81 246.76	+22 45 20.5 358.8	15 45.68	8.66	− 4 26.48	18 54 26.312
	7	土	7 2 59.57 246.41	39 21.7 382.4	45.69	66	36.69	18 58 22.873
	8	日	7 5.98 246.03	32 59.3 405.9	45.70	66	46.54	19 2 19.436
	9	月	11 12.01 245.64	26 13.4 429.2	45.72	66	4 56.01	6 16.000
	10	火	15 17.65 245.22	19 4.2 452.2	45.74	66	5 5.10	10 12.563
	11	水	7 19 22.87 244.77	+22 11 32.0 475.1	15 45.77	8.66	− 5 13.76	19 14 9.124
	12	木	23 27.64 244.31	22 3 36.9 497.8	45.80	66	21.98	18 5.683
	13	金	27 31.95 243.84	21 55 19.1 520.4	45.84	66	29.73	22 2.240
	14	土	31 35.79 243.35	46 38.7 542.8	45.89	66	37.01	25 58.793
	15	日	35 39.14 242.83	37 35.9 565.0	45.94	66	43.80	29 55.345
	16	月	7 39 41.97 242.30	+21 28 10.9 586.9	15 45.99	8.66	− 5 50.07	19 33 51.896
	17	火	43 44.27 241.77	18 24.0 608.5	46.05	66	5 55.82	37 48.447
	18	水	47 46.04 241.23	21 8 15.5 629.9	46.12	66	6 1.04	41 45.000
	19	木	51 47.27 240.67	20 57 45.6 651.2	46.19	66	5.70	45 41.554
	20	金	55 47.94 240.10	46 54.4 672.2	46.26	66	9.81	49 38.110
	21	土	7 59 48.04 239.52	+20 35 42.2 692.9	15 46.34	8.66	− 6 13.36	19 53 34.668
	22	日	8 3 47.56 238.94	24 9.3 713.4	46.42	66	16.33	19 57 31.229
	23	月	7 46.50 238.37	12 15.9 733.7	46.50	66	18.71	20 1 27.791
	24	火	11 44.87 237.78	20 0 2.2 753.6	46.58	66	20.52	5 24.352
	25	水	15 42.65 237.19	19 47 28.6 773.3	46.67	66	21.73	9 20.913
	26	木	8 19 39.84 236.60	+19 34 35.3 792.8	15 46.77	8.66	− 6 22.37	20 13 17.472
	27	金	23 36.44 236.02	21 22.5 812.1	46.86	67	22.41	17 14.029
	28	土	27 32.46 235.43	19 7 50.4 831.0	46.96	67	21.88	21 10.582
	29	日	31 27.89 234.84	18 53 59.4 849.7	47.06	67	20.75	25 7.133
	30	月	35 22.73 234.25	39 49.7 868.2	47.16	67	19.04	29 3.682
	31	火	39 16.98 233.67	25 21.5 886.4	47.27	67	16.74	33 0.233
8	1	水	8 43 10.65 233.09	+18 10 35.1 904.2	15 47.38	8.67	− 6 13.86	20 36 56.786
	2	木	47 3.74 232.51	17 55 30.9 921.8	47.50	67	10.39	40 53.340
	3	金	50 56.25 231.92	40 9.1 939.1	47.62	67	6.34	44 49.899
	4	土	54 48.17 231.33	24 30.0 956.2	47.74	67	6 1.70	48 46.460
	5	日	8 58 39.50 230.74	17 8 33.8 972.9	47.87	68	5 56.48	52 43.021
	6	月	9 2 30.24 230.15	+16 52 20.9 989.3	15 48.00	8.68	− 5 50.66	20 56 39.583
	7	火	6 20.39 229.57	35 51.6 1005.4	48.14	68	44.26	21 0 36.143
	8	水	10 9.96 228.98	19 6.2 1021.2	48.29	68	37.27	4 32.700
	9	木	13 58.94 228.39	16 2 5.0 1036.6	48.44	68	29.70	8 29.255
	10	金	17 47.33 227.81	15 44 48.4 1051.8	48.59	68	21.53	12 25.807
	11	土	9 21 35.14 227.22	+15 27 16.6 1066.7	15 48.75	8.68	− 5 12.78	21 16 22.357
	12	日	25 22.36 226.64	15 9 29.9 1081.3	48.91	68	5 3.45	20 18.907
	13	月	29 9.00 226.07	14 51 28.6 1095.4	49.08	69	4 53.54	24 15.456
	14	火	32 55.07 225.52	33 13.2 1109.2	49.25	69	43.06	28 12.005
	15	水	36 40.59 224.96	14 14 44.0 1122.8	49.43	69	32.02	32 8.556
	16	木	9 40 25.55 224.42	+13 56 1.2 1136.0	15 49.61	8.69	− 4 20.43	21 36 5.109
	17	金	44 9.97 223.88	37 5.2 1148.9	49.80	69	4 8.29	40 1.665
	18	土	47 53.85 223.36	13 17 56.3 1161.5	49.99	69	3 55.62	43 58.221
	19	日	51 37.21 222.85	12 58 34.8 1173.7	50.18	70	42.43	47 54.780
	20	月	55 20.06 222.36	39 1.1 1185.7	50.37	70	28.73	51 51.341
	21	火	9 59 2.42 221.88	+12 19 15.4 1197.4	15 50.57	8.70	− 3 14.53	21 55 47.899
	22	水	10 2 44.30 221.41	11 59 18.0 1208.8	50.76	70	2 59.85	21 59 44.457
	23	木	6 25.71 220.96	39 9.2 1219.7	50.96	70	44.70	22 3 41.012
	24	金	10 6.67 220.54	11 18 49.5 1230.4	51.16	70	29.11	7 37.565
	25	土	13 47.21 220.13	10 58 19.1 1240.9	51.37	71	2 13.10	11 34.115
	26	日	10 17 27.34 219.74	+10 37 38.2 1251.0	15 51.57	8.71	− 1 56.67	22 15 30.662
	27	月	21 7.08 219.37	10 16 47.2 1260.9	51.78	71	39.86	19 27.211
	28	火	24 46.45 219.02	9 55 46.3 1270.5	51.99	71	22.68	23 23.761
	29	水	28 25.47 218.68	34 35.8 1279.8	52.20	71	1 5.14	27 20.313
	30	木	32 4.15 218.35	9 13 16.0 1288.6	52.41	72	0 47.27	31 16.869
	31	金	35 42.50 218.04	8 51 47.4 1297.2	52.62	72	29.07	35 13.426
9	1	土	10 39 20.54	+ 8 30 10.2	15 52.84	8.72	− 0 10.56	22 39 9.985

通日	月	日	世界時 0h 視黃經	黃緯 平均	黃緯 視	地球ノ動徑（對數）	黃經ノ歲差	黃經ノ章動 長	黃經ノ章動 短	赤經ノ章動 長	赤經ノ章動 短	恒星時0hニ對スル世界時
			° ′ ″ ″	″	″		″	″	″	s	s	h m s
182	7	1	98 47 2.8 3432.0	−1.02	−0.79	0.0071841	24.95	−16.69	+0.09	−1.021	+0.006	5 24 23.18
183		2	99 44 14.8 3432.2	05	82	1925	25.09	66	−0.01	019	0.000	20 27.26
184		3	100 41 27.0 3432.4	05	82	1989	22	63	−0.10	017	−0.005	16 31.35
185		4	101 38 39.4 3432.7	1.02	79	2033	36	60	−0.17	015	−0.010	12 35.44
186		5	102 35 52.1 3433.0	0.94	71	2055	50	56	−0.20	013	−0.012	8 39.53
187		6	103 33 5.1 3433.3	−0.85	−0.62	0.0072052	25.64	−16.53	−0.20	−1.011	−0.012	5 4 43.62
188		7	104 30 18.4 3433.6	73	50	2025	78	49	−0.13	009	−0.008	5 0 47.71
189		8	105 27 32.0 3433.8	59	36	1972	25.91	46	−0.03	007	−0.002	4 56 51.80
190		9	106 24 45.8 3434.0	45	22	1892	26.05	43	+0.08	005	+0.004	52 55.88
191		10	107 21 59.8 3434.2	31	−0.08	1787	19	40	+0.18	004	+0.010	48 59.97
192		11	108 19 14.0 3434.3	−0.17	+0.06	0.0071654	26.33	−16.37	+0.24	−1.002	+0.014	4 45 4.06
193		12	109 16 28.3 3434.3	−0.04	18	1496	46	34	+0.24	1.000	+0.016	41 8.15
194		13	110 13 42.6 3434.5	+0.06	28	1312	60	31	+0.24	0.998	+0.014	37 12.24
195		14	111 10 57.1 3434.6	13	35	1104	74	28	+0.17	996	+0.010	33 16.33
196		15	112 8 11.7 3434.7	18	40	0872	26.88	25	+0.09	994	+0.005	29 20.42
197		16	113 5 26.4 3434.8	+0.20	+0.42	0.0070618	27.01	−16.23	−0.01	−0.993	0.000	4 25 24.50
198		17	114 2 41.2 3434.9	19	41	0343	15	20	−0.09	992	−0.006	21 28.59
199		18	114 59 56.1 3435.1	16	38	0.0070048	29	18	−0.17	990	−0.010	17 32.68
200		19	115 57 11.2 3435.4	10	32	0.0069732	43	15	−0.21	989	−0.013	13 36.77
201		20	116 54 26.6 3435.7	+0.02	24	9399	56	13	−0.23	987	−0.013	9 40.86
202		21	117 51 42.3 3436.0	−0.08	+0.14	0.0069049	27.70	−16.11	−0.21	−0.985	−0.012	4 5 44.95
203		22	118 48 58.3 3436.3	20	+0.02	8683	84	09	−0.14	984	−0.008	4 1 49.04
204		23	119 46 14.6 3436.8	32	−0.11	8301	27.98	07	−0.06	983	−0.003	3 57 53.13
205		24	120 43 31.4 3437.4	44	23	7905	28.11	06	+0.02	983	+0.002	53 57.22
206		25	121 40 48.8 3438.0	58	37	7495	25	05	+0.11	982	+0.007	50 1.31
207		26	122 38 6.8 3438.8	−0.69	−0.48	0.0067072	28.39	−16.04	+0.17	−0.982	+0.010	3 46 5.40
208		27	123 35 25.6 3439.7	78	57	6637	53	03	+0.16	981	+0.010	42 9.49
209		28	124 32 45.3 3440.6	85	64	6188	67	02	+0.13	980	+0.007	38 13.58
210		29	125 30 5.9 3441.6	87	67	5725	80	01	+0.05	980	+0.003	34 17.67
211		30	126 27 27.5 3442.7	88	68	5247	28.94	16.00	−0.06	979	−0.003	30 21.76
212		31	127 24 50.2 3443.8	86	66	4753	29.08	15.99	−0.13	979	−0.008	26 25.85
213	8	1	128 22 14.0 3445.0	−0.81	−0.61	0.0064242	29.22	−15.99	−0.19	−0.979	−0.011	3 22 29.94
214		2	129 19 39.0 3446.3	71	52	3712	35	98	−0.19	978	−0.011	18 34.03
215		3	130 17 5.3 3447.4	60	41	3163	49	98	−0.15	978	−0.009	14 38.12
216		4	131 14 32.7 3448.6	47	28	2593	63	97	−0.06	978	−0.004	10 42.21
217		5	132 12 1.3 3449.8	33	−0.14	2001	77	97	+0.04	978	+0.003	6 46.30
218		6	133 9 31.1 3450.9	−0.18	0.00	0.0061386	29.90	−15.97	+0.13	−0.977	+0.009	3 2 50.39
219		7	134 7 2.0 3452.1	−0.04	+0.14	0748	30.04	97	+0.21	977	+0.013	2 58 54.48
220		8	135 4 34.1 3453.1	+0.09	27	0.0060086	18	97	+0.24	978	+0.015	54 58.57
221		9	136 2 7.2 3454.1	19	37	0.0059401	32	98	+0.24	978	+0.014	51 2.66
222		10	136 59 41.3 3455.2	29	46	8693	45	98	+0.18	979	+0.011	47 6.75
223		11	137 57 16.5 3456.2	+0.35	+0.52	0.0057963	30.59	−15.99	+0.10	−0.979	+0.007	2 43 10.84
224		12	138 54 52.7 3457.1	38	55	7212	73	16.00	+0.01	980	+0.001	39 14.94
225		13	139 52 29.8 3458.1	39	55	6441	30.87	01	−0.07	980	−0.004	35 19.03
226		14	140 50 7.9 3459.1	36	52	5650	31.00	02	−0.15	981	−0.009	31 23.12
227		15	141 47 47.0 3460.2	31	47	4841	31.14	04	−0.19	981	−0.012	27 27.21
228		16	142 45 27.2 3461.1	+0.24	+0.39	0.0054015	31.28	−16.05	−0.22	−0.982	−0.014	2 23 31.30
229		17	143 43 8.3 3462.2	15	30	3173	42	07	−0.21	984	−0.013	19 35.39
230		18	144 40 50.5 3463.3	+0.03	18	2316	56	09	−0.17	985	−0.010	15 39.48
231		19	145 38 33.8 3464.4	−0.07	+0.07	1446	69	11	−0.09	986	−0.006	11 43.58
232		20	146 36 18.2 3465.6	19	−0.05	0.0050564	83	13	−0.01	987	0.000	7 47.67
233		21	147 34 3.8 3466.9	−0.31	−0.17	0.0049672	31.97	−16.15	+0.07	−0.989	+0.005	2 3 51.76
234		22	148 31 50.7 3468.1	42	29	8769	32.11	17	+0.14	990	+0.009	1 59 55.85
235		23	149 29 38.8 3469.6	52	39	7859	24	20	+0.17	991	+0.010	55 59.94
236		24	150 27 28.4 3471.2	58	46	6941	38	22	+0.15	993	+0.008	52 4.03
237		25	151 25 19.6 3472.7	62	50	6015	52	25	+0.08	994	+0.004	48 8.13
238		26	152 23 12.3 3474.4	−0.63	−0.52	0.0045082	32.66	−16.27	−0.02	−0.996	−0.001	1 44 12.22
239		27	153 21 6.7 3476.2	61	50	4141	79	30	−0.09	998	−0.006	40 16.31
240		28	154 19 2.9 3478.1	55	44	3191	32.93	33	−0.16	0.999	−0.010	36 20.40
241		29	155 17 1.0 3480.0	47	37	2232	33.07	36	−0.17	1.001	−0.011	32 24.50
242		30	156 15 1.0 3481.9	36	26	1261	21	39	−0.15	002	−0.009	28 28.59
243		31	157 13 2.9 3483.8	23	−0.14	0.0040279	35	42	−0.08	004	−0.004	24 32.68
244	9	1	158 11 6.7	−0.09	0.00	0.0039283	33.49	−16.45	+0.02	−1.006	+0.002	1 20 36.77

月	日		視赤經		視赤緯		視半徑	地平視差	時差率（視時−平時）		恒星時
			h m s	s	° ′ ″	″	′ ″	″	m s	s	h m s
9	1	土	10 39 20.54	217.77	+ 8 30 10.2	−1305.5	15 52.84	8.72	− 0 10.56	+18.79	22 39 9.985
	2	日	42 58.31	217.49	8 8 24.7	1313.5	53.06	72	+ 0 8.23	19.06	43 6.545
	3	月	46 35.80	217.22	7 46 31.2	1321.1	53.29	72	27.29	19.33	47 3.103
	4	火	50 13.02	216.98	24 30.1	1328.4	53.52	73	0 46.62	19.57	50 59.659
	5	水	53 50.00	216.74	7 2 21.7	1335.4	53.75	73	1 6.19	19.82	54 56.213
	6	木	10 57 26.74	216.52	+ 6 40 6.3	−1342.0	15 53.98	8.73	+ 1 26.01	+20.03	22 58 52.764
	7	金	11 1 3.26	216.32	6 17 44.3	1348.2	54.22	73	1 46.04	20.24	23 2 49.313
	8	土	4 39.58	216.13	5 55 16.1	1354.1	54.47	73	2 6.28	20.42	6 45.860
	9	日	8 15.71	215.96	32 42.0	1359.8	54.71	74	26.70	20.60	10 42.408
	10	月	11 51.67	215.80	5 10 2.2	1364.9	54.96	74	2 47.30	20.75	14 38.956
	11	火	11 15 27.47	215.66	+ 4 47 17.3	−1369.8	15 55.21	8.74	+ 3 8.05	+20.90	23 18 35.505
	12	水	19 3.13	215.53	24 27.5	1374.4	55.47	74	28.95	21.01	22 32.055
	13	木	22 38.66	215.43	4 1 33.1	1378.6	55.73	75	3 49.96	21.12	26 28.608
	14	金	26 14.09	215.35	3 38 34.5	1382.4	55.99	75	4 11.08	21.21	30 25.162
	15	土	29 49.44	215.28	3 15 32.1	1385.9	56.25	75	32.29	21.27	34 21.719
	16	日	11 33 24.72	215.24	+ 2 52 26.2	−1389.1	15 56.51	8.75	+ 4 53.56	+21.32	23 38 18.276
	17	月	36 59.96	215.21	29 17.1	1391.9	56.77	76	5 14.88	21.34	42 14.835
	18	火	40 35.17	215.21	2 6 5.2	1394.4	57.04	76	36.22	21.34	46 11.392
	19	水	44 10.38	215.22	1 42 50.8	1396.6	57.31	76	5 57.56	21.33	50 7.946
	20	木	47 45.60	215.27	1 19 34.2	1398.5	57.58	76	6 18.89	21.28	54 4.499
	21	金	11 51 20.87	215.34	+ 0 56 15.7	−1400.1	15 57.84	8.77	+ 6 40.17	+21.21	23 58 1.049
	22	土	54 56.21	215.44	32 55.6	1401.3	58.11	77	7 1.38	21.12	0 1 57.596
	23	日	11 58 31.65	215.55	+ 0 9 34.3	1402.2	58.37	77	22.50	21.00	5 54.143
	24	月	12 2 7.20	215.70	− 0 13 47.9	1402.8	58.64	77	7 43.50	20.85	9 50.691
	25	火	5 42.90	215.86	0 37 10.7	1403.1	58.91	78	8 4.35	20.70	13 47.242
	26	水	12 9 18.76	216.05	− 1 0 33.8	−1403.1	15 59.18	8.78	+ 8 25.05	+20.50	0 17 43.796
	27	木	12 54.81	216.27	23 56.9	1402.8	59.44	78	8 45.55	20.28	21 40.352
	28	金	16 31.08	216.50	1 47 19.7	1402.1	59.71	78	9 5.83	20.05	25 36.911
	29	土	20 7.58	216.76	2 10 41.8	1401.1	15 59.97	79	25.88	19.80	29 33.471
	30	日	23 44.34	217.03	34 2.9	1399.7	16 0.24	79	9 45.68	19.51	33 30.029
10	1	月	12 27 21.37	217.32	− 2 57 22.6	−1398.0	16 0.51	8.79	+10 5.19	+19.24	0 37 26.585
	2	火	30 58.69	217.63	3 20 40.6	1395.9	0.78	79	24.43	18.92	41 23.138
	3	水	34 36.32	217.95	3 43 56.5	1393.3	1.05	80	10 43.35	18.61	45 19.690
	4	木	38 14.27	218.30	4 7 9.8	1390.5	1.32	80	11 1.96	18.25	49 16.239
	5	金	41 52.57	218.66	30 20.3	1387.3	1.60	80	20.21	17.89	53 12.786
	6	土	12 45 31.23	219.04	− 4 53 27.6	−1383.7	16 1.88	8.80	+11 38.10	+17.51	0 57 9.334
	7	日	49 10.27	219.43	5 16 31.3	1379.7	2.15	81	11 55.61	17.13	1 1 5.880
	8	月	52 49.70	219.84	5 39 31.0	1375.3	2.43	81	12 12.74	16.71	5 2.429
	9	火	12 56 29.54	220.27	6 2 26.3	1370.6	2.71	81	29.45	16.29	8 58.979
	10	水	13 0 9.81	220.72	25 16.9	1365.4	2.99	81	12 45.74	15.83	12 55.532
	11	木	13 3 50.53	221.18	− 6 48 2.3	−1359.8	16 3.27	8.82	+13 1.57	+15.38	1 16 52.086
	12	金	7 31.71	221.65	7 10 42.1	1353.9	3.55	82	16.95	14.90	20 48.642
	13	土	11 13.36	222.14	33 16.0	1347.6	3.83	82	31.85	14.40	24 45.200
	14	日	14 55.50	222.66	7 55 43.6	1340.8	4.11	82	13 46.25	13.88	28 41.758
	15	月	18 38.16	223.20	8 18 4.4	1333.7	4.39	83	14 0.13	13.37	32 38.316
	16	火	13 22 21.36	223.75	− 8 40 18.1	−1326.3	16 4.67	8.83	+14 13.50	+12.82	1 36 34.873
	17	水	26 5.11	224.31	9 2 24.4	1318.4	4.95	83	26.32	12.24	40 31.426
	18	木	29 49.42	224.89	24 22.8	1310.1	5.23	83	38.56	11.66	44 27.978
	19	金	33 34.31	225.50	9 46 12.9	1301.5	5.51	84	14 50.22	11.04	48 24.526
	20	土	37 19.81	226.14	10 7 54.4	1292.6	5.78	84	15 1.26	10.42	52 21.075
	21	日	13 41 5.95	226.79	−10 29 27.0	−1283.3	16 6.05	8.84	+15 11.68	+ 9.77	1 56 17.624
	22	月	44 52.74	227.46	10 50 50.3	1273.5	6.32	84	21.45	9.09	2 0 14.175
	23	火	48 40.20	228.14	11 12 3.8	1263.4	6.59	85	30.54	8.42	4 10.729
	24	水	52 28.34	228.85	33 7.2	1253.0	6.85	85	38.96	7.70	8 7.286
	25	木	13 56 17.19	229.58	11 54 0.2	1242.2	7.11	85	46.66	6.98	12 3.846
	26	金	14 0 6.77	230.32	−12 14 42.4	−1231.1	16 7.36	8.85	+15 53.64	+ 6.23	2 16 0.407
	27	土	3 57.09	231.07	35 13.5	1219.5	7.62	85	15 59.87	5.48	19 56.968
	28	日	7 48.16	231.84	12 55 33.0	1207.5	7.87	86	16 5.35	4.71	23 53.528
	29	月	11 40.00	232.62	13 15 40.5	1195.1	8.12	86	10.06	3.94	27 50.084
	30	火	15 32.62	233.41	35 35.6	1182.3	8.37	86	14.00	3.14	31 46.637
	31	水	19 26.03	234.21	13 55 17.9	−1169.2	8.62	86	17.14	+ 2.35	35 43.188
11	1	木	14 23 20.24		−14 14 47.1		16 8.87	8.87	+16 19.49		2 39 39.738

通日	月	日	世界時 0h 視黃經	黃緯 平均	黃緯 視	地球ノ動徑（對數）	黃經ノ歲差	黃經ノ章動 長	黃經ノ章動 短	赤經ノ章動 長	赤經ノ章動 短	恒星時0h ニ對スル世界時
			° ′ ″	″	″		″	″	″	s	s	h m s
244	9	1	158 11 6.7	−0.09	0.00	0.0039283	33.49	−16.45	+0.02	−1.006	+0.002	1 20 36.77
245		2	159 9 12.4	+0.06	+0.14	8274	63	49	+0.13	008	+0.008	16 40.87
246		3	160 7 20.1	20	28	7249	76	52	+0.20	010	+0.012	12 44.96
247		4	161 5 29.6	32	39	6208	33.90	55	+0.25	013	+0.015	8 49.05
248		5	162 3 41.0	43	50	5150	34.04	59	+0.24	015	+0.015	4 53.14
249		6	163 1 54.2	+0.52	+0.58	0.0034077	34.18	−16.63	+0.22	−1.017	+0.013	1 0 57.24
250		7	164 0 9.2	58	64	2988	31	66	+0.14	019	+0.008	0 57 1.33
251		8	164 58 25.9	62	67	1884	45	70	+0.05	021	+0.003	53 5.42
252		9	165 56 44.3	62	67	0.0030764	58	74	−0.05	024	−0.002	49 9.52
253		10	166 55 4.4	61	65	0.0029630	72	78	−0.14	026	−0.007	45 13.61
254		11	167 53 26.1	+0.56	+0.60	0.0028482	34.86	−16.82	−0.20	−1.029	−0.011	0 41 17.70
255		12	168 51 49.5	50	53	7323	35.00	86	−0.22	032	−0.013	37 21.79
256		13	169 50 14.5	41	44	6152	13	90	−0.22	034	−0.014	33 25.89
257		14	170 48 41.1	32	34	4972	27	94	−0.20	037	−0.012	29 29.98
258		15	171 47 9.3	20	21	3783	41	16.98	−0.13	039	−0.008	25 34.07
259		16	172 45 39.1	+0.08	+0.09	0.0022586	35.55	−17.03	−0.04	−1.042	−0.003	0 21 38.17
260		17	173 44 10.5	−0.02	−0.02	1383	68	07	+0.04	045	+0.003	17 42.26
261		18	174 42 43.6	13	13	0.0020176	82	12	+0.10	048	+0.007	13 46.35
262		19	175 41 18.4	22	23	0.0018966	35.96	16	+0.16	050	+0.009	9 50.45
263		20	176 39 54.9	30	31	7755	36.10	21	+0.14	053	+0.008	5 54.54
264		21	177 38 33.3	−0.35	−0.37	0.0016544	36.23	−17.25	+0.08	−1.056	+0.005	{0 1 58.63 / 23 58 2.73}
265		22	178 37 13.5	36	39	5334	37	30	0.00	059	0.000	54 6.82
266		23	179 35 55.6	35	38	4125	51	35	−0.08	061	−0.005	50 10.91
267		24	180 34 39.9	29	33	2919	65	39	−0.15	064	−0.010	46 15.00
268		25	181 33 26.3	21	25	1714	79	44	−0.17	067	−0.011	42 19.10
269		26	182 32 14.8	−0.10	−0.15	0.0010510	36.92	−17.48	−0.17	−1.069	−0.010	23 38 23.19
270		27	183 31 5.7	+0.02	−0.04	0.0009306	37.06	53	−0.09	072	−0.006	34 27.28
271		28	184 29 58.9	15	+0.09	8100	20	57	0.00	075	0.000	30 31.38
272		29	185 28 54.4	30	23	6892	34	61	+0.11	077	+0.007	26 35.47
273		30	186 27 52.2	43	36	5681	47	65	+0.19	080	+0.012	22 39.56
274	10	1	187 26 52.3	+0.56	+0.48	0.0004466	37.61	−17.70	+0.25	−1.082	+0.016	23 18 43.66
275		2	188 25 54.7	67	58	3245	75	74	+0.27	085	+0.016	14 47.75
276		3	189 24 59.3	76	67	2018	37.89	79	+0.23	088	+0.014	10 51.84
277		4	190 24 6.1	83	73	0.0000786	38.02	83	+0.18	090	+0.010	6 55.94
278		5	191 23 15.0	86	76	9.9999548	16	87	+0.07	093	+0.005	23 3 0.03
279		6	192 22 26.1	+0.88	+0.77	9.9998304	38.30	−17.91	−0.02	−1.095	−0.001	22 59 4.12
280		7	193 21 39.2	86	74	7054	44	95	−0.09	098	−0.006	55 8.22
281		8	194 20 54.3	81	69	5799	57	17.99	−0.17	100	−0.010	51 12.31
282		9	195 20 11.4	75	62	4540	71	18.03	−0.21	103	−0.012	47 16.40
283		10	196 19 30.4	67	53	3277	85	07	−0.23	105	−0.013	43 20.49
284		11	197 18 51.2	+0.56	+0.42	9.9992012	38.99	−18.11	−0.20	−1.107	−0.012	22 39 24.59
285		12	198 18 13.9	45	30	9.9990745	39.12	14	−0.15	109	−0.009	35 28.68
286		13	199 17 38.4	34	18	9.9989478	26	18	−0.06	111	−0.004	31 32.77
287		14	200 17 4.7	22	+0.06	8211	40	21	+0.01	113	+0.001	27 36.86
288		15	201 16 32.8	11	−0.06	6946	54	24	+0.09	115	+0.005	23 40.96
289		16	202 16 2.6	+0.02	−0.15	9.9985686	39.68	−18.27	+0.12	−1.117	+0.008	22 19 45.05
290		17	203 15 34.1	−0.05	23	4430	81	30	+0.14	119	+0.008	15 49.14
291		18	204 15 7.3	10	29	3182	39.95	33	+0.10	121	+0.006	11 53.23
292		19	205 14 42.4	13	32	1943	40.09	36	+0.02	123	+0.001	7 57.33
293		20	206 14 19.3	11	31	9.9980715	23	38	−0.07	124	−0.005	4 1.42
294		21	207 13 58.1	−0.07	−0.28	9.9979499	40.36	−18.41	−0.16	−1.126	−0.009	22 0 5.51
295		22	208 13 38.9	0.00	21	8295	50	43	−0.19	127	−0.012	21 56 9.60
296		23	209 13 21.7	+0.11	−0.11	7103	64	46	−0.19	129	−0.012	52 13.69
297		24	210 13 6.6	23	+0.01	5924	78	48	−0.14	130	−0.008	48 17.79
298		25	211 12 53.7	38	15	4756	40.91	50	−0.03	132	−0.002	44 21.88
299		26	212 12 43.0	+0.52	+0.28	9.9973601	41.05	−18.52	+0.08	−1.133	+0.005	21 40 25.97
300		27	213 12 34.6	65	41	2454	19	54	+0.18	134	+0.011	36 30.06
301		28	214 12 28.4	79	54	1318	33	55	+0.26	135	+0.016	32 34.15
302		29	215 12 24.4	0.91	66	9.9970188	46	57	+0.28	135	+0.017	28 38.24
303		30	216 12 22.6	1.01	75	9.9969067	60	58	+0.27	136	+0.016	24 42.34
304		31	217 12 23.0	1.08	81	7951	74	59	+0.21	137	+0.013	20 46.43
305	11	1	218 12 25.4	+1.11	+0.84	9.9966841	41.88	−18.60	+0.12	−1.138	+0.007	21 16 50.52

月	日		視赤經	視赤緯	視半徑	地平視差	時差率（視時−平時）	恒星時
			h m s s	° ′ ″ ″	′ ″	″	m s s	h m s
11	1	木	14 23 20.24 235.01	−14 14 47.1 −1155.5	16 8.87	8.87	+16 19.49 + 1.55	2 39 39.738
	2	金	27 15.25 235.82	34 2.6 1141.4	9.12	87	21.04 + 0.73	43 36.287
	3	土	31 11.07 236.64	14 53 4.0 1126.9	9.36	87	21.77 − 0.09	47 32.835
	4	日	35 7.71 237.46	15 11 50.9 1112.1	9.61	87	21.68 0.90	51 29.386
	5	月	39 5.17 238.29	30 23.0 1096.7	9.85	88	20.78 1.74	55 25.938
	6	火	14 43 3.46 239.11	−15 48 39.7 −1081.0	16 10.09	8.88	+16 19.04 − 2.55	2 59 22.491
	7	水	47 2.57 239.94	16 6 40.7 1064.7	10.33	88	16.49 3.38	3 3 19.047
	8	木	51 2.51 240.77	24 25.4 1048.2	10.57	88	13.11 4.22	7 15.605
	9	金	55 3.28 241.61	41 53.6 1031.1	10.81	89	8.89 5.05	11 12.164
	10	土	14 59 4.89 242.44	16 59 4.7 1013.6	11.05	89	16 3.84 5.89	15 8.725
	11	日	15 3 7.33 243.28	−17 15 58.3 − 995.8	16 11.28	8.89	+15 57.95 − 6.72	3 19 5.286
	12	月	7 10.61 244.10	32 34.1 977.7	11.51	89	51.23 7.54	23 1.845
	13	火	11 14.71 244.93	17 48 51.8 959.1	11.74	89	43.69 8.38	26 58.402
	14	水	15 19.64 245.76	18 4 50.9 939.9	11.97	90	35.31 9.20	30 54.957
	15	木	19 25.40 246.59	20 30.8 920.5	12.19	90	26.11 10.03	34 51.509
	16	金	15 23 31.99 247.41	−18 35 51.3 − 900.7	16 12.41	8.90	+15 16.08 − 10.86	3 38 48.060
	17	土	27 39.40 248.23	18 50 52.0 880.5	12.62	90	15 5.22 11.68	42 44.610
	18	日	31 47.63 249.06	19 5 32.5 859.9	12.83	90	14 53.54 12.50	46 41.163
	19	月	35 56.69 249.88	19 52.4 839.0	13.04	90	41.04 13.32	50 37.718
	20	火	40 6.57 250.70	33 51.4 817.8	13.24	91	27.72 14.14	54 34.277
	21	水	15 44 17.27 251.51	−19 47 29.2 − 796.3	16 13.43	8.91	+14 13.58 − 14.95	3 58 30.839
	22	木	48 28.78 252.32	20 0 45.5 774.4	13.62	91	13 58.63 15.77	4 2 27.403
	23	金	52 41.10 253.12	13 39.9 752.1	13.81	91	42.86 16.57	6 23.967
	24	土	15 56 54.22 253.92	26 12.0 729.5	13.99	91	26.29 17.36	10 20.530
	25	日	16 1 8.14 254.70	38 21.5 706.5	14.17	92	13 8.93 18.14	14 17.091
	26	月	16 5 22.84 255.47	−20 50 8.0 − 683.3	16 14.34	8.92	+12 50.79 − 18.91	4 18 13.648
	27	火	9 38.31 256.21	21 1 31.3 659.7	14.51	92	31.88 19.65	22 10.202
	28	水	13 54.52 256.95	12 31.0 635.8	14.68	92	12 12.23 20.40	26 6.754
	29	木	18 11.47 257.66	23 6.8 611.6	14.84	92	11 51.83 21.11	30 3.305
	30	金	22 29.13 258.35	33 18.4 587.0	15.00	92	30.72 21.79	33 59.857
12	1	土	16 26 47.48 259.02	−21 43 5.4 − 562.1	16 15.15	8.92	+11 8.93 − 22.45	4 37 56.409
	2	日	31 6.50 259.67	21 52 27.5 537.6	15.30	93	10 46.48 23.12	41 52.964
	3	月	35 26.17 260.29	22 1 24.5 511.6	15.44	93	10 23.36 23.73	45 49.520
	4	火	39 46.46 260.88	9 56.1 485.8	15.59	93	9 59.63 24.32	49 46.077
	5	水	44 7.34 261.44	18 1.9 459.8	15.73	93	35.31 24.88	53 42.637
	6	木	16 48 28.78 261.97	−22 25 41.7 − 433.6	16 15.87	8.93	+ 9 10.43 − 25.42	4 57 39.199
	7	金	52 50.75 262.48	32 55.3 407.1	16.01	93	8 45.01 25.92	5 1 35.762
	8	土	16 57 13.23 262.96	39 42.4 380.5	16.14	93	8 19.09 26.41	5 32.324
	9	日	17 1 36.19 263.41	46 2.9 353.6	16.27	94	7 52.68 26.84	9 28.886
	10	月	5 59.60 263.82	51 56.5 326.5	16.39	94	7 25.84 27.27	13 25.446
	11	火	17 10 23.42 264.20	−22 57 23.0 − 299.1	16 16.51	8.94	+ 6 58.57 − 27.63	5 17 22.004
	12	水	14 47.62 264.54	23 2 22.1 271.7	16.63	94	30.94 27.99	21 18.557
	13	木	19 12.16 264.86	6 53.8 244.1	16.74	94	6 2.95 28.30	25 15.109
	14	金	23 37.02 265.14	10 57.9 216.4	16.85	94	5 34.65 28.59	29 11.661
	15	土	28 2.16 265.40	14 34.3 188.5	16.95	94	5 6.06 28.84	33 8.214
	16	日	17 32 27.56 265.63	−23 17 42.8 − 160.6	16 17.05	8.94	+ 4 37.22 − 29.07	5 37 4.770
	17	月	36 53.19 265.82	20 23.4 132.6	17.14	94	4 8.15 29.25	41 1.329
	18	火	41 19.01 265.99	22 36.0 104.5	17.22	94	3 38.90 29.44	44 57.891
	19	水	45 45.00 266.13	24 20.5 76.4	17.30	94	3 9.46 29.57	48 54.457
	20	木	50 11.13 266.25	25 36.9 48.2	17.37	94	2 39.89 29.69	52 51.023
	21	金	17 54 37.38 266.33	−23 26 25.1 − 20.0	16 17.44	8.95	+ 2 10.20 − 29.77	5 56 47.588
	22	土	17 59 3.71 266.38	26 45.1 + 8.3	17.50	95	1 40.43 29.83	6 0 44.151
	23	日	18 3 30.09 266.41	26 36.8 36.5	17.55	95	1 10.60 29.85	4 40.711
	24	月	7 56.50 266.39	26 0.3 64.7	17.60	95	0 40.75 29.83	8 37.268
	25	火	12 22.89 266.35	24 55.6 92.9	17.64	95	+ 0 10.92 29.79	12 33.822
	26	水	18 16 49.24 266.28	−23 23 22.7 + 121.1	16 17.68	8.95	− 0 18.87 − 29.72	6 16 30.374
	27	木	21 15.52 266.16	21 21.6 149.2	17.71	95	0 48.59 29.60	20 26.926
	28	金	25 41.68 266.00	18 52.4 177.3	17.73	95	1 18.19 29.45	24 23.480
	29	土	30 7.68 265.83	15 55.1 205.3	17.75	95	1 47.64 29.27	28 20.035
	30	日	34 33.51 265.62	12 29.8 233.1	17.77	95	2 16.91 29.06	32 16.592
	31	月	38 59.13 265.36	8 36.7 + 261.0	17.78	95	2 45.97 − 28.80	36 13.149
12	32	火	18 43 24.49	−23 4 15.7	16 17.79	8.95	− 3 14.77	6 40 9.709

通日	月	日	世界時 0h 視黃經	黃緯 平均	黃緯 視	地球ノ動徑（對數）	黃經ノ歲差	黃經ノ章動 長	黃經ノ章動 短	赤經ノ章動 長	赤經ノ章動 短	恒星時 0h ニ對スル世界時
			° ′ ″ ″	″	″		″	″	″	s	s	h m s
305	11	1	218 12 25.4 3604.5	+1.11	+0.84	9.9966841	41.88	−18.60	+0.12	−1.138	+0.007	21 16 50.52
306		2	219 12 29.9 3606.5	12	84	5735	42.01	61	+0.03	138	+0.002	12 54.61
307		3	220 12 36.4 3608.5	10	82	4636	15	62	−0.06	139	−0.004	8 58.70
308		4	221 12 44.9 3610.3	1.05	76	3541	29	63	−0.13	139	−0.008	5 2.79
309		5	222 12 55.2 3612.1	0.98	69	2453	43	63	−0.19	139	−0.011	21 1 6.88
310		6	223 13 7.3 3613.9	+0.90	+0.60	9.9961369	42.57	−18.64	−0.21	−1.139	−0.012	20 57 10.97
311		7	224 13 21.2 3615.5	80	49	9.9960291	70	64	−0.19	139	−0.012	53 15.06
312		8	225 13 36.7 3617.2	67	36	9.9959219	84	64	−0.15	139	−0.009	49 19.15
313		9	226 13 53.9 3618.7	56	24	8156	42.98	64	−0.07	139	−0.005	45 23.25
314		10	227 14 12.6 3620.2	44	+0.12	7100	43.12	64	−0.01	139	−0.001	41 27.33
315		11	228 14 32.8 3621.6	+0.33	0.00	9.9956054	43.25	−18.63	+0.06	−1.139	+0.004	20 37 31.43
316		12	229 14 54.4 3623.0	21	−0.12	5018	39	62	+0.12	138	+0.007	33 35.52
317		13	230 15 17.4 3624.3	13	21	3994	53	61	+0.13	137	+0.008	29 39.61
318		14	231 15 41.7 3625.7	08	26	2983	67	60	+0.10	136	+0.006	25 43.69
319		15	232 16 7.4 3627.0	06	29	1988	80	58	+0.03	136	+0.002	21 47.78
320		16	233 16 34.4 3628.4	+0.05	−0.30	9.9951010	43.94	−18.57	−0.07	−1.135	−0.003	20 17 51.87
321		17	234 17 2.8 3629.7	09	27	9.9950051	44.08	55	−0.14	134	−0.009	13 55.96
322		18	235 17 32.5 3631.1	16	20	9.9949111	22	53	−0.21	133	−0.013	10 0.05
323		19	236 18 3.6 3632.5	26	−0.11	8194	35	51	−0.21	132	−0.014	6 4.14
324		20	237 18 36.1 3634.1	37	0.00	7298	49	49	−0.19	131	−0.011	20 2 8.23
325		21	238 19 10.2 3635.6	+0.50	+0.12	9.9946425	44.63	−18.47	−0.09	−1.129	−0.006	19 58 12.32
326		22	239 19 45.8 3637.2	64	26	5575	77	45	+0.03	128	+0.001	54 16.41
327		23	240 20 23.0 3638.9	77	39	4747	44.90	42	+0.14	126	+0.009	50 20.50
328		24	241 21 1.9 3640.5	0.92	53	3940	45.04	40	+0.23	125	+0.014	46 24.59
329		25	242 21 42.4 3642.2	1.03	64	3153	18	37	+0.28	123	+0.018	42 28.68
330		26	243 22 24.6 3643.7	+1.13	+0.73	9.9942384	45.32	−18.35	+0.28	−1.122	+0.017	19 38 32.77
331		27	244 23 8.3 3645.3	20	80	1634	46	32	+0.24	120	+0.015	34 36.85
332		28	245 23 53.6 3646.9	24	84	0901	59	29	+0.17	118	+0.010	30 40.94
333		29	246 24 40.5 3648.3	27	86	9.9940184	73	26	+0.07	116	+0.004	26 45.03
334		30	247 25 28.8 3649.8	24	83	9.9939482	45.87	23	−0.03	114	−0.002	22 49.12
335	12	1	248 26 18.6 3651.1	+1.20	+0.79	9.9938796	46.01	−18.19	−0.11	−1.112	−0.007	19 18 53.21
336		2	249 27 9.7 3652.3	14	72	8124	14	16	−0.16	109	−0.010	14 57.30
337		3	250 28 2.0 3653.5	1.05	63	7466	28	12	−0.20	107	−0.012	11 1.39
338		4	251 28 55.5 3654.7	0.94	52	6822	42	08	−0.19	105	−0.011	7 5.47
339		5	252 29 50.2 3655.7	82	39	6192	56	04	−0.15	103	−0.009	19 3 9.56
340		6	253 30 45.9 3656.7	+0.69	+0.26	9.9935576	46.69	−18.00	−0.09	−1.101	−0.006	18 59 13.65
341		7	254 31 42.6 3657.5	56	13	4974	83	17.96	−0.02	098	−0.001	55 17.74
342		8	255 32 40.1 3658.3	44	+0.01	4386	46.97	92	+0.07	096	+0.003	51 21.83
343		9	256 33 38.4 3659.0	33	−0.11	3815	47.11	88	+0.11	093	+0.007	47 25.91
344		10	257 34 37.4 3659.6	22	22	3259	24	84	+0.14	091	+0.009	43 30.00
345		11	258 35 37.0 3660.2	+0.14	−0.30	9.9932721	47.38	−17.79	+0.13	−1.088	+0.008	18 39 34.09
346		12	259 36 37.2 3660.7	09	35	2201	52	75	+0.07	086	+0.004	35 38.18
347		13	260 37 37.9 3661.2	09	36	1701	66	70	−0.03	083	−0.001	31 42.27
348		14	261 38 39.1 3661.6	11	34	1223	79	65	−0.12	080	−0.007	27 46.35
349		15	262 39 40.7 3662.0	16	29	0769	47.93	60	−0.21	077	−0.012	23 50.44
350		16	263 40 42.7 3662.5	+0.25	−0.20	9.9930339	48.07	−17.56	−0.23	−1.074	−0.015	18 19 54.53
351		17	264 41 45.2 3662.9	35	−0.10	9.9929936	21	51	−0.22	071	−0.014	15 58.62
352		18	265 42 48.1 3663.5	47	+0.02	9560	35	46	−0.16	068	−0.009	12 2.71
353		19	266 43 51.6 3664.0	60	15	9213	48	41	−0.03	065	−0.003	8 6.79
354		20	267 44 55.6 3664.6	75	30	8894	62	36	+0.08	062	+0.005	4 10.88
355		21	268 46 0.2 3665.2	+0.90	+0.44	9.9928603	48.76	−17.31	+0.18	−1.059	+0.012	18 0 14.97
356		22	269 47 5.4 3665.8	1.02	56	8341	48.90	26	+0.26	056	+0.016	17 56 19.05
357		23	270 48 11.2 3666.5	12	66	8105	49.03	21	+0.28	053	+0.017	52 23.14
358		24	271 49 17.7 3667.2	19	73	7895	17	17	+0.26	050	+0.016	48 27.23
359		25	272 50 24.9 3667.8	24	78	7710	31	12	+0.19	047	+0.012	44 31.32
360		26	273 51 32.7 3668.3	+1.27	+0.81	9.9927549	49.45	−17.07	+0.10	−1.044	+0.006	17 40 35.40
361		27	274 52 41.0 3668.8	25	79	7411	58	17.02	+0.01	041	0.000	36 39.49
362		28	275 53 49.8 3669.3	20	74	7294	72	16.98	−0.07	038	−0.005	32 43.58
363		29	276 54 59.1 3669.8	12	67	7198	49.86	93	−0.15	035	−0.009	28 47.67
364		30	277 56 8.9 3670.1	1.03	58	7121	50.00	88	−0.18	032	−0.011	24 51.75
365		31	278 57 19.0 3670.3	0.93	48	7064	13	83	−0.20	030	−0.011	20 55.84
366	12	32	279 58 29.3	+0.82	+0.37	9.9927025	50.27	−16.78	−0.17	−1.027	−0.010	17 16 59.93

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1	1	+0.174 6194	+171791	−0.887 7321	+ 29916	−0.385 0105	+ 12981	−749	−188	+ 94
	2	191 7985	171206	884 7405	32660	383 7124	14171	738	198	88
	3	208 9191	170573	881 4745	35399	382 2953	15357	727	208	82
	4	225 9764	169883	877 9346	38128	380 7596	16539	716	218	77
	5	242 9647	169140	874 1218	40850	379 1057	17717	704	227	72
	6	+0.259 8787	+168345	−0.870 0368	+ 43561	−0.377 3340	+ 18892	−693	−236	+ 67
	7	276 7132	167501	865 6807	46261	375 4448	20062	681	244	61
	8	293 4633	166601	861 0546	48948	373 4386	21226	670	252	56
	9	310 1234	165644	856 1598	51622	371 3160	22384	658	260	50
	10	326 6878	164635	850 9976	54281	369 0776	23537	646	268	45
	11	+0.343 1513	+163574	−0.845 5695	+ 56927	−0.366 7239	+ 24683	−634	−275	+ 39
	12	359 5087	162458	839 8768	59554	364 2556	25821	623	282	34
	13	375 7545	161288	833 9214	62164	361 6735	26953	611	288	28
	14	391 8833	160063	827 7050	64751	358 9782	28076	599	294	24
	15	407 8896	158785	821 2299	67317	356 1706	29189	587	300	19
	16	+0.423 7681	+157455	−0.814 4982	+ 69859	−0.353 2517	+ 30292	−575	−306	+ 15
	17	439 5136	156072	807 5123	72377	350 2225	31385	563	311	10
	18	455 1208	154642	800 2746	74866	347 0840	32466	551	316	+ 5
	19	470 5850	153162	792 7880	77326	343 8374	33535	539	320	0
	20	485 9012	151637	785 0554	79758	340 4839	34591	528	325	− 4
	21	+0.501 0649	+150065	−0.777 0796	+ 82162	−0.337 0248	+ 35636	−516	−329	− 8
	22	516 0714	148452	768 8634	84537	333 4612	36667	504	333	13
	23	530 9166	146795	760 4097	86883	329 7945	37687	492	336	17
	24	545 5961	145097	751 7214	89200	326 0258	38693	481	340	21
	25	560 1058	143358	742 8014	91488	322 1565	39684	469	343	24
	26	+0.574 4416	+141581	−0.733 6526	+ 93747	−0.318 1881	+ 40664	−458	−346	− 28
	27	588 5997	139763	724 2779	95977	314 1217	41633	446	348	32
	28	602 5760	137906	714 6802	98180	309 9584	42587	435	351	36
	29	616 3666	136008	704 8622	100354	305 6997	43529	423	353	39
	30	629 9674	134071	694 8268	102497	301 3468	44458	412	355	43
	31	643 3745	132094	684 5771	104610	296 9010	45373	401	356	46
2	1	+0.656 5839	+130079	−0.674 1161	+ 106694	−0.292 3637	+ 46276	−390	−358	− 50
	2	669 5918	128025	663 4467	108748	287 7361	47164	379	359	53
	3	682 3943	125930	652 5719	110768	283 0197	48039	368	360	56
	4	694 9873	123796	641 4951	112757	278 2158	48901	357	360	59
	5	707 3669	121625	630 2194	114711	273 3257	49747	347	361	62
	6	+0.719 5294	+119414	−0.618 7483	+ 116632	−0.268 3510	+ 50579	−336	−361	− 65
	7	731 4708	117166	607 0851	118517	263 2931	51395	325	361	68
	8	743 1874	114879	595 2334	120366	258 1536	52196	314	361	70
	9	754 6753	112554	583 1968	122178	252 9340	52982	304	361	73
	10	765 9307	110191	570 9790	123953	247 6358	53752	294	361	76
	11	+0.776 9498	+107792	−0.558 5837	+ 125684	−0.242 2606	+ 54503	−284	−361	− 78
	12	787 7290	105356	546 0153	127374	236 8103	55236	274	360	80
	13	798 2646	102888	533 2779	129021	231 2867	55951	264	359	82
	14	808 5534	100387	520 3758	130624	225 6916	56648	254	358	84
	15	818 5921	97858	507 3134	132182	220 0268	57325	245	357	87
	16	+0.823 3779	+ 95297	−0.494 0952	+ 133692	−0.214 2943	+ 57983	−235	−356	− 89
	17	837 9076	92714	480 7260	135159	208 4960	58620	226	355	91
	18	847 1790	90105	467 2101	136579	202 6340	59238	217	354	93
	19	856 1895	87474	453 5522	137956	196 7102	59837	208	352	95
	20	864 9369	84819	439 7566	139286	190 7265	60414	199	350	96
	21	+0.873 4188	+ 82147	−0.425 8280	+ 140573	−0.184 6851	+ 60973	−191	−348	− 98
	22	881 6335	79454	411 7707	141815	178 5878	61512	182	346	99
	23	889 5789	76742	397 5892	143016	172 4366	62033	174	344	101
	24	897 2531	74012	383 2876	144173	166 2333	62534	165	342	102
	25	904 6543	71264	368 8703	145289	159 9799	63017	157	340	103
	26	+0.911 7807	+ 68497	−0.354 3414	+ 146361	−0.153 6782	+ 63482	−148	−337	−104
	27	918 6304	65713	339 7053	147391	147 3300	63928	141	335	105
	28	925 2017	+ 62912	324 9662	+148377	140 9372	+ 64353	133	332	106
3	1	+0.931 4929		−0.310 1285		−0.134 5019		−125	−329	−107

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3	1	+0.931 4929	+ 60095	−0.310 1285	+149321	−0.134 5019	+ 64762	−125	−329	−107
	2	937 5024	57262	295 1964	150224	128 0257	65153	117	326	103
	3	943 2286	54411	280 1740	151081	121 5104	65523	110	323	109
	4	948 6697	51542	265 0659	151894	114 9581	65873	103	320	109
	5	953 8239	48660	249 8765	152661	108 3708	66204	96	317	110
	6	+0.958 6899	+ 45764	−0.234 6104	+153385	−0.101 7504	+ 66518	− 88	−314	−110
	7	963 2663	42853	219 2719	154062	095 0986	66811	82	310	110
	8	967 5516	39927	203 8657	154693	088 4175	67083	75	306	110
	9	971 5443	36989	188 3964	155277	081 7092	67337	69	303	111
	10	975 2432	34037	172 8687	155815	074 9755	67571	62	299	111
	11	+0.978 6469	+ 31074	−0.157 2872	+156302	−0.068 2184	+ 67783	− 56	−296	−111
	12	981 7543	28100	141 6570	156740	061 4401	67973	49	293	111
	13	984 5643	25119	125 9830	157125	054 6428	68141	43	289	112
	14	987 0762	22127	110 2705	157458	047 8287	68288	37	284	112
	15	989 2889	19135	094 5247	157741	040 9999	68412	32	280	112
	16	+0.991 2024	+ 16138	−0.078 7506	+157971	−0.034 1587	+ 68513	− 26	−276	−112
	17	992 8162	13145	062 9535	158150	027 3074	68593	21	272	112
	18	994 1307	10150	047 1385	158276	020 4481	68649	15	268	111
	19	995 1457	7161	031 3109	158355	013 5832	68684	10	264	111
	20	995 8618	4173	−0.015 4754	158385	−0.006 7148	68698	− 5	260	111
	21	+0.996 2791	+ 1192	+0.000 3631	+158370	+0.000 1550	+ 68692	0	−255	−110
	22	996 3983	− 1780	016 2001	158308	007 0242	68666	+ 5	249	109
	23	996 2203	4749	032 0309	158200	013 8908	68618	10	245	109
	24	995 7454	7712	047 8509	158043	020 7526	68549	14	241	108
	25	994 9742	10667	063 6552	157846	027 6075	68463	18	236	108
	26	+0.993 9075	− 13616	+0.079 4398	+157605	+0.034 4538	+ 68358	+ 22	−231	−107
	27	992 5459	16556	095 2003	157320	041 2896	68232	26	226	107
	28	990 8903	19490	110 9323	156991	048 1128	68088	30	221	106
	29	988 9413	22414	126 6314	156617	054 9216	67924	34	217	106
	30	986 6999	25331	142 2931	156200	061 7140	67742	37	212	105
	31	984 1668	28239	157 9131	155738	068 4882	67541	40	207	105
4	1	+0.981 3429	− 31137	+0.173 4859	+155234	+0.075 2423	+ 67321	+ 43	−202	−104
	2	978 2292	34026	189 0103	154686	081 9744	67082	46	197	103
	3	974 8266	36906	204 4789	154096	088 6826	66826	49	191	101
	4	971 1360	39776	219 8885	153460	095 3652	66549	52	186	101
	5	967 1584	42634	235 2345	152780	102 0201	66254	54	180	100
	6	+0.962 8950	− 45481	+0.250 5125	+152055	+0.108 6455	+ 65939	+ 57	−175	− 99
	7	958 3469	48317	265 7180	151285	115 2394	65606	59	169	98
	8	953 5152	51138	280 8465	150467	121 8000	65252	61	164	97
	9	948 4014	53946	295 8932	149603	128 3252	64880	62	158	96
	10	943 0068	56736	310 8535	148693	134 8132	64486	64	153	95
	11	+0.937 3332	− 59511	+0.325 7228	+147735	+0.141 2618	+ 64072	+ 65	−147	− 93
	12	931 3821	62262	340 4963	146732	147 6690	63638	66	141	93
	13	925 1559	64995	355 1695	145680	154 0328	63184	67	135	92
	14	918 6564	67700	369 7375	144585	160 3512	62711	68	130	91
	15	911 8864	70380	384 1960	143444	166 6223	62217	68	124	90
	16	+0.904 8484	− 73032	+0.398 5404	+142263	+0.172 8440	+ 61706	+ 69	−118	− 90
	17	897 5452	75656	412 7687	141036	179 0146	61175	69	112	89
	18	889 9796	78253	426 8703	139775	185 1321	60627	69	106	88
	19	882 1543	80822	440 8478	138475	191 1948	60063	69	100	87
	20	874 0721	83363	454 6953	137139	197 2011	59483	68	94	85
	21	+0.865 7358	− 85875	+0.468 4092	+135765	+0.203 1494	+ 58886	+ 67	− 88	− 83
	22	857 1483	88357	481 9857	134356	209 0380	58274	66	82	83
	23	848 3126	90811	495 4213	132911	214 8654	57646	65	76	82
	24	839 2315	93236	508 7124	131431	220 6300	57003	64	70	81
	25	829 9079	95634	521 8555	129916	226 3303	56344	62	64	79
	26	+0.820 3445	− 98001	+0.534 8471	+128368	+0.231 9647	+ 55671	+ 60	− 58	− 78
	27	810 5444	100339	547 6839	126786	237 5318	54985	58	52	77
	28	800 5105	102648	560 3625	125172	243 0303	54284	56	47	77
	29	790 2457	104930	572 8797	123526	248 4587	53567	53	41	76
	30	779 7527	−107182	585 2323	+121847	253 8154	+ 52838	50	35	75
5	1	+0.769 0345		+0.597 4170		+0.259 0992		+ 47	− 28	− 74

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5	1	+0.769 0345	−109402	+0.597 4170	+120133	+0.259 0992	+ 52095	+ 47	− 28	− 74
	2	758 0943	111593	609 4303	118386	264 3087	51337	44	23	74
	3	746 9350	113752	621 2689	116605	269 4424	50565	41	17	73
	4	735 5598	115881	632 9294	114792	274 4989	49779	37	12	73
	5	723 9717	117982	644 4086	112946	279 4768	48979	33	7	72
	6	+0.712 1735	−120047	+0.655 7032	+111066	+0.284 3747	+ 48164	+ 29	− 2	− 71
	7	700 1688	122082	666 8098	109150	289 1911	47336	25	+ 4	70
	8	687 9606	124078	677 7248	107202	293 9247	46493	21	10	70
	9	675 5528	126038	688 4450	105220	298 5740	45635	16	15	69
	10	662 9490	127958	698 9670	103206	303 1375	44763	11	20	69
	11	+0.650 1532	−129840	+0.709 2876	+101156	+0.307 6138	+ 43876	+ 6	+ 24	− 68
	12	637 1692	131678	719 4032	99080	312 0014	42977	+ 1	28	67
	13	624 0014	133475	729 3112	96973	316 2991	42063	− 5	32	66
	14	610 6539	135227	739 0085	94841	320 5054	41139	11	37	66
	15	597 1312	136935	748 4926	92681	324 6193	40204	16	41	65
	16	+0.583 4377	−138599	+0.757 7607	+ 90498	+0.328 6397	+ 39257	− 23	+ 46	− 65
	17	569 5778	140221	766 8105	88292	332 5654	38298	29	50	65
	18	555 5557	141797	775 6397	86066	336 3952	37331	36	54	65
	19	541 3760	143327	784 2463	83818	340 1283	36355	42	57	64
	20	527 0433	144816	792 6281	81552	343 7638	35372	49	61	65
	21	+0.512 5617	−146265	+0.800 7833	+ 79266	+0.347 3010	+ 34379	− 56	+ 64	− 65
	22	497 9352	147672	808 7099	76962	350 7389	33379	63	67	65
	23	483 1680	149037	816 4061	74638	354 0768	32370	70	69	65
	24	468 2643	150358	823 8699	72299	357 3138	31354	78	72	65
	25	453 2285	151635	831 0998	69943	360 4492	30329	86	74	65
	26	+0.438 0650	−152872	+0.838 0941	+ 67570	+0.363 4821	+ 29299	− 94	+ 77	− 65
	27	422 7778	154068	844 8511	65177	366 4120	28262	101	79	64
	28	407 3710	155223	851 3688	62771	369 2382	27217	110	80	64
	29	391 8487	156334	857 6459	60349	371 9599	26165	118	81	64
	30	376 2153	157406	863 6808	57911	374 5764	25108	126	83	65
	31	360 4747	158439	869 4719	55457	377 0872	24046	134	84	66
6	1	+0.344 6308	−159426	+0.875 0176	+ 52986	+0.379 4918	+ 22976	−143	+ 85	− 66
	2	328 6882	160370	880 3162	50498	381 7894	21896	151	86	66
	3	312 6512	161271	885 3660	47994	383 9790	20812	160	86	68
	4	296 5241	162131	890 1654	45475	386 0602	19721	168	85	69
	5	280 3110	162942	894 7129	42940	388 0323	18623	177	85	70
	6	+0.264 0168	−163707	+0.899 0069	+ 40389	+0.389 8946	+ 17520	−186	+ 85	− 70
	7	247 6461	164422	903 0458	37825	391 6466	16409	195	84	71
	8	231 2039	165090	906 8283	35245	393 2875	15291	204	83	72
	9	214 6949	165706	910 3528	32657	394 8166	14169	213	82	73
	10	198 1243	166268	913 6185	30056	396 2335	13043	222	81	74
	11	+0.181 4975	−166782	+0.916 6241	+ 27451	+0.397 5378	+ 11914	−231	+ 79	− 75
	12	164 8193	167245	919 3692	24838	398 7292	10779	240	76	76
	13	148 0948	167656	921 8530	22222	399 8071	9644	249	74	78
	14	131 3292	168012	924 0752	19601	400 7715	8507	258	71	80
	15	114 5280	168322	926 0353	16979	401 6222	7369	268	68	81
	16	+0.097 6958	−168587	+0.927 7332	+ 14355	+0.402 3591	+ 6230	−277	+ 65	− 81
	17	080 8371	168801	929 1687	11733	402 9821	5090	286	61	83
	18	063 9570	168964	930 3420	9110	403 4911	3951	295	57	85
	19	047 0606	169083	931 2530	6488	403 8862	2812	304	53	87
	20	030 1523	169155	931 9018	3865	404 1674	1674	312	49	88
	21	+0.013 2368	−169180	+0.932 2883	+ 1245	+0.404 3348	+ 537	−321	+ 44	− 90
	22	−0.003 6812	169159	932 4128	− 1373	404 3885	− 600	330	39	91
	23	020 5971	169094	932 2755	3987	404 3285	1736	339	34	93
	24	037 5065	168982	931 8768	6600	404 1549	2869	347	28	95
	25	054 4047	168829	931 2168	9209	403 8680	4000	355	22	97
	26	−0.071 2876	−168632	+0.930 2959	− 11813	+0.403 4680	− 5131	−363	+ 16	− 99
	27	088 1508	168390	929 1146	14417	402 9549	6260	372	10	102
	28	104 9898	168102	927 6729	17018	402 3289	7387	380	+ 3	104
	29	121 8000	167771	925 9711	19616	401 5902	8512	388	− 5	106
	30	138 5771	−167399	924 0095	− 22212	400 7390	− 9637	395	12	108
7	1	−0.155 3170		+0.921 7883		+0.399 7753		−403	− 21	−111

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7	1	−0.155 3170	−166978	+0.921 7883	− 24804	+0.399 7753	− 10759	−403	− 21	−111
	2	172 0148	166509	919 3079	27393	398 6994	11880	410	29	113
	3	188 6657	165993	916 5686	29977	397 5114	12999	417	37	116
	4	205 2650	165433	913 5709	32560	396 2115	14118	423	45	118
	5	221 8083	164822	910 3149	35133	394 7997	15232	430	54	121
	6	−0.238 2905	−164162	+0.906 8016	− 37701	+0.393 2765	− 16344	−437	− 63	−123
	7	254 7067	163451	903 0315	40258	391 6421	17453	443	72	126
	8	271 0518	162689	899 0057	42806	389 8968	18558	449	80	128
	9	287 3207	161877	894 7251	45340	388 0410	19656	455	90	131
	10	303 5084	161015	890 1911	47862	386 0754	20750	461	100	133
	11	−0.319 6099	−160106	+0.885 4049	− 50367	+0.384 0004	− 21837	−466	−110	−137
	12	335 6205	159147	880 3682	52856	381 8167	22919	471	120	140
	13	351 5352	158143	875 0826	55327	379 5248	23991	476	130	143
	14	367 3495	157092	869 5499	57780	377 1257	25057	481	140	145
	15	383 0587	155999	863 7719	60213	374 6200	26113	485	151	149
	16	−0.398 6586	−154863	+0.857 7506	− 62628	+0.372 0087	− 27162	−489	−161	−152
	17	414 1449	153683	851 4878	65023	369 2925	28203	493	172	156
	18	429 5132	152456	844 9855	67398	366 4722	29234	496	183	159
	19	444 7588	151192	838 2457	69752	363 5488	30256	499	195	162
	20	459 8780	149887	831 2705	72084	360 5232	31269	502	207	164
	21	−0.474 8667	−148542	+0.824 0621	− 74396	+0.357 3963	− 32271	−505	−219	−168
	22	489 7209	147154	816 6225	76685	354 1692	33264	507	230	171
	23	504 4363	145732	808 9540	78953	350 8428	34249	509	242	174
	24	519 0095	144273	801 0587	81200	347 4179	35224	510	253	177
	25	533 4368	142775	792 9387	83428	343 8955	36189	511	265	182
	26	−0.547 7143	−141242	+0.784 5959	− 85634	+0.340 2766	− 37144	−512	−277	−186
	27	561 8385	139668	776 0325	87820	336 5622	38091	513	290	189
	28	575 8053	138057	767 2505	89983	332 7531	39028	513	302	192
	29	589 6110	136406	758 2522	92127	328 8503	39956	513	314	196
	30	603 2516	134717	749 0395	94250	324 8547	40875	512	326	199
	31	616 7233	132987	739 6145	96349	320 7672	41784	512	339	203
8	1	−0.630 0220	−131219	+0.729 9796	− 98428	+0.316 5888	− 42633	−511	−352	−206
	2	643 1439	129409	720 1368	100479	312 3205	43572	509	364	210
	3	656 0848	127558	710 0889	102507	307 9633	44451	507	375	214
	4	668 8406	125665	699 8382	104505	303 5182	45316	505	388	217
	5	681 4071	123730	689 3877	106475	298 9866	46170	503	400	220
	6	−0.693 7801	−121757	+0.678 7402	−108413	+0.294 3696	− 47011	−500	−413	−224
	7	705 9558	119746	667 8989	110323	289 6685	47841	497	426	228
	8	717 9304	117698	656 8666	112198	284 8844	48655	493	439	232
	9	729 7002	115611	645 6468	114040	280 0189	49454	489	451	235
	10	741 2613	113490	634 2428	115846	275 0735	50238	485	464	239
	11	−0.752 6103	−111334	+0.622 6582	−117615	+0.270 0497	− 51008	−481	−476	−242
	12	763 7437	109148	610 8967	119351	264 9489	51763	476	488	246
	13	774 6585	106928	598 9616	121051	259 7726	52502	471	500	250
	14	785 3513	104680	586 8565	122716	254 5224	53225	465	512	254
	15	795 8193	102402	574 5849	124344	249 1999	53932	459	524	258
	16	−0.806 0595	−100095	+0.562 1505	−125936	+0.243 8067	− 54623	−453	−536	−262
	17	816 0690	97760	549 5569	127491	238 3444	55299	446	547	265
	18	825 8450	95400	536 8078	129009	232 8145	55958	439	559	269
	19	835 3850	93011	523 9069	130488	227 2187	56599	432	570	272
	20	844 6861	90602	510 8581	131933	221 5588	57226	424	582	276
	21	−0.853 7463	− 88169	+0.497 6648	−133343	+0.215 8362	− 57837	−416	−593	−280
	22	862 5632	85713	484 3305	134718	210 0525	58432	408	604	284
	23	871 1345	83233	470 8587	136057	204 2093	59011	399	614	287
	24	879 4578	80730	457 2530	137361	198 3082	59576	390	625	291
	25	887 5308	78204	443 5169	138631	192 3506	60125	381	636	294
	26	−0.895 3512	− 75654	+0.429 6538	−139865	+0.186 3381	− 60659	−372	−646	−297
	27	902 9166	73079	415 6673	141066	180 2722	61178	362	656	300
	28	910 2245	70479	401 5607	142228	174 1544	61680	352	667	304
	29	917 2724	67854	387 3379	143354	167 9864	62166	342	677	308
	30	924 0578	65205	373 0025	144441	161 7698	62637	332	687	311
	31	930 5783	− 62531	358 5584	−145490	155 5061	− 63092	321	697	314
9	1	−0.936 8314		+0.344 0094		+0.149 1969		−310	−707	−317

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9	1	−0.936 8314	− 59833	+0.344 0094	−146496	+0.149 1969	− 63528	−310	−707	−317
	2	942 8147	57111	329 3598	147460	142 8441	63946	298	716	320
	3	948 5258	54368	314 6138	148379	136 4495	64346	287	724	324
	4	953 9626	51603	299 7759	149256	130 0149	64727	275	732	327
	5	959 1229	48821	284 8503	150086	123 5422	65088	263	741	330
	6	−0.964 0050	− 46021	+0.269 8417	−150872	+0.117 0334	− 65430	−250	−750	−332
	7	968 6071	43205	254 7545	151610	110 4904	65751	238	758	336
	8	972 9276	40371	239 5935	152303	103 9153	66054	225	766	339
	9	976 9647	37528	224 3632	152950	097 3099	66335	212	774	342
	10	980 7175	34670	209 0682	153549	090 6764	66597	198	781	344
	11	−0.984 1845	− 31805	+0.193 7133	−154103	+0.084 0167	− 66838	−185	−789	−347
	12	987 3650	28928	178 3030	154609	077 3329	67058	171	796	350
	13	990 2578	26044	162 8421	155070	070 6271	67259	157	802	352
	14	992 8622	23150	147 3351	155488	063 9012	67441	143	808	354
	15	995 1772	20252	131 7863	155857	057 1571	67602	129	815	357
	16	−0.997 2024	− 17349	+0.116 2006	−156178	+0.050 3969	− 67742	−114	−821	−359
	17	0.998 9373	14443	100 5828	156457	043 6227	67862	99	826	361
	18	1.000 3816	11532	084 9371	156693	036 8365	67962	84	831	363
	19	001 5348	8619	069 2678	156887	030 0403	68045	69	837	365
	20	002 3967	5706	053 5791	157037	023 2358	68109	54	842	367
	21	−1.002 9673	− 2790	+0.037 8754	−157144	+0.016 4249	− 68155	− 38	−846	−369
	22	003 2463	+ 129	022 1610	157207	009 6094	68180	− 22	850	371
	23	003 2334	3051	+0.006 4403	157231	+0.002 7914	68189	− 7	854	373
	24	002 9283	5978	−0.009 2828	157214	−0.004 0275	68180	+ 9	858	375
	25	002 3305	8907	025 0042	157152	010 8455	68151	26	862	376
	26	−1.001 4398	+ 11839	−0.040 7194	−157048	−0.017 6606	− 68105	+ 42	−865	−377
	27	1.000 2559	14774	056 4242	156897	024 4711	68040	59	869	378
	28	0.998 7785	17713	072 1139	156704	031 2751	67955	75	872	379
	29	997 0072	20651	087 7843	156459	038 0706	67849	92	874	381
	30	994 9421	23592	103 4302	156167	044 8555	67723	108	876	382
10	1	−0.992 5829	+ 26529	−0.119 0469	−155826	−0.051 6278	− 67576	+125	−878	−383
	2	989 9300	29466	134 6295	155438	058 3854	67409	142	880	383
	3	986 9834	32395	150 1733	155000	065 1263	67220	160	882	384
	4	983 7439	35319	165 6733	154515	071 8483	67012	177	883	385
	5	980 2120	38235	181 1248	153978	078 5495	66780	195	885	385
	6	−0.976 3885	+ 41144	−0.196 5226	−153391	−0.085 2275	− 66527	+212	−886	−385
	7	972 2741	44039	211 8617	152757	091 8802	66253	230	886	385
	8	967 8702	46924	227 1374	152077	098 5055	65959	247	886	385
	9	963 1778	49795	242 3451	151347	105 1014	65644	265	886	385
	10	958 1983	52653	257 4798	150570	111 6658	65308	283	885	385
	11	−0.952 9330	+ 55492	−0.272 5368	−149746	−0.118 1966	− 64951	+301	−885	−385
	12	947 3838	58317	287 5114	148875	124 6917	64573	319	884	385
	13	941 5521	61121	302 3989	147960	131 1490	64177	337	883	384
	14	935 4400	63907	317 1949	146999	137 5667	63760	355	882	383
	15	929 0493	66673	331 8948	145997	143 9427	63324	374	881	382
	16	−0.922 3820	+ 69420	−0.346 4945	−144950	−0.150 2751	− 62868	+392	−879	−381
	17	915 4400	72143	360 9895	143862	156 5619	62395	411	877	380
	18	908 2257	74845	375 3757	142732	162 8014	61904	429	874	379
	19	900 7412	77525	389 6489	141563	168 9918	61396	448	871	378
	20	892 9887	80184	403 8052	140355	175 1314	60870	466	868	376
	21	−0.884 9703	+ 82824	−0.417 8407	−139109	−0.181 2184	− 60328	+485	−865	−374
	22	876 6879	85444	431 7516	137824	187 2512	59770	504	862	372
	23	868 1435	88043	445 5340	136499	193 2282	59193	523	858	370
	24	859 3392	90620	459 1839	135134	199 1475	58600	541	854	368
	25	850 2772	93177	472 6973	133727	205 0075	57990	560	850	366
	26	−0.840 9595	+ 95714	−0.486 0700	−132277	−0.210 8065	− 57362	+579	−845	−364
	27	831 3881	98227	499 2977	130786	216 5427	56715	598	840	361
	28	821 5654	100718	512 3763	129252	222 2142	56050	617	834	358
	29	811 4936	103181	525 3015	127675	227 8192	55367	636	829	355
	30	801 1755	105617	538 0690	126055	233 3559	54667	655	823	352
	31	790 6138	+108022	550 6745	−124392	238 8226	− 53948	674	816	349
11	1	−0.779 8116		−0.563 1137		−0.244 2174		+693	−809	−345

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11	1	−0.779 8116	+110398	−0.563 1137	−122687	−0.244 2174	− 53209	+ 693	−809	−345
	2	768 7718	112740	575 3824	120942	249 5383	52453	712	802	342
	3	757 4978	115052	587 4766	119155	254 7836	51680	731	795	339
	4	745 9926	117329	599 3921	117329	259 9516	50890	750	788	335
	5	734 2597	119572	611 1250	115465	265 0406	50082	769	780	330
	6	−0.722 3025	+121775	−0.622 6715	−113563	−0.270 0488	− 49257	+ 788	−772	−327
	7	710 1250	123939	634 0278	111620	274 9745	48416	806	763	323
	8	697 7311	126065	645 1898	109643	279 8161	47559	825	755	318
	9	685 1246	128154	656 1541	107629	284 5720	46685	844	746	313
	10	672 3092	130199	666 9170	105583	289 2405	45797	863	737	309
	11	−0.659 2893	+132202	−0.677 4753	−103503	−0.293 8202	− 44895	+ 882	−727	−304
	12	646 0691	134164	687 8256	101393	298 3097	43979	901	717	299
	13	632 6527	136085	697 9649	99252	302 7076	43049	919	706	293
	14	619 0442	137962	707 8901	97084	307 0125	42106	938	695	288
	15	605 2480	139796	717 5985	94886	311 2231	41152	957	684	283
	16	−0.591 2684	+141588	−0.727 0871	− 92661	−0.315 3383	− 40186	+ 976	−673	−277
	17	577 1096	143336	736 3532	90409	319 3569	39207	994	662	271
	18	562 7760	145045	745 3941	88134	323 2776	38218	1012	649	266
	19	548 2715	146715	754 2075	85836	327 0994	37222	1030	636	260
	20	533 6000	148344	762 7911	83511	330 8216	36212	1048	624	254
	21	−0.518 7656	+149933	−0.771 1422	− 81160	−0.334 4428	− 35192	+1066	−611	−247
	22	503 7723	151481	779 2582	78781	337 9620	34161	1084	597	241
	23	488 6242	152987	787 1363	76376	341 3781	33117	1102	583	234
	24	473 3255	154451	794 7739	73945	344 6898	32063	1120	569	227
	25	457 8804	155872	802 1684	71488	347 8961	31000	1137	554	220
	26	−0.442 2932	+157248	−0.809 3172	− 69005	−0.350 9961	− 29924	+1154	−539	−213
	27	426 5684	158579	816 2177	66494	353 9885	28835	1171	523	205
	28	410 7105	159859	822 8671	63959	356 8720	27738	1188	507	198
	29	394 7246	161090	829 2630	61399	359 6458	26631	1204	490	190
	30	378 6156	162271	835 4029	58817	362 3089	25513	1221	474	183
12	1	−0.362 3885	+163405	−0.841 2846	− 56213	−0.364 8602	− 24383	+1237	−458	−175
	2	346 0480	164484	846 9059	53590	367 2985	23245	1253	440	167
	3	329 5996	165513	852 2649	50946	369 6230	22101	1269	422	158
	4	313 0483	166486	857 3595	48285	371 8331	20947	1285	404	150
	5	296 3997	167407	862 1880	45602	373 9278	19784	1300	385	142
	6	−0.279 6590	+168271	−0.866 7482	− 42908	−0.375 9062	− 18616	+1315	−367	−134
	7	262 8319	169081	871 0390	40198	377 7678	17442	1329	348	125
	8	245 9238	169837	875 0588	37477	379 5120	16261	1344	328	117
	9	228 9401	170539	878 8065	34741	381 1381	15071	1358	307	108
	10	211 8862	171185	882 2806	31998	382 6452	13881	1372	286	99
	11	−0.194 7677	+171772	−0.885 4804	− 29247	−0.384 0333	− 12687	+1385	−265	− 89
	12	177 5905	172306	888 4051	26489	385 3020	11489	1398	244	80
	13	160 3599	172786	891 0540	23725	386 4509	10289	1411	223	71
	14	143 0813	173215	893 4265	20957	387 4798	9086	1424	201	62
	15	125 7598	173589	895 5222	18184	388 3884	7882	1436	179	52
	16	−0.108 4009	+173913	−0.897 3406	− 15409	−0.389 1766	− 6677	+1448	−156	− 42
	17	091 0096	174182	898 8815	12632	389 8443	5472	1459	133	32
	18	073 5914	174404	900 1447	9852	390 3915	4266	1470	110	22
	19	056 1510	174578	901 1299	7068	390 8181	3058	1480	87	12
	20	038 6932	174701	901 8367	4282	391 1239	1850	1490	63	− 2
	21	−0.021 2231	+174774	−0.902 2649	− 1492	−0.391 3089	− 641	+1500	− 39	+ 8
	22	−0.003 7457	174796	902 4141	+ 1301	391 3730	+ 570	1509	− 14	18
	23	+0.013 7339	174767	902 2840	4099	391 3160	1782	1518	+ 11	28
	24	031 2106	174685	901 8741	6897	391 1378	2994	1526	37	38
	25	048 6791	174549	901 1844	9699	390 8384	4208	1534	62	48
	26	+0.066 1340	+174358	−0.900 2145	+ 12500	−0.390 4176	+ 5421	+1541	+ 88	+ 59
	27	083 5698	174112	898 9645	15301	389 8755	6633	1547	113	70
	28	100 9810	173812	897 4344	18099	389 2122	7845	1553	140	81
	29	118 3622	173456	895 6245	20894	388 4277	9057	1559	166	92
	30	135 7078	173044	893 5351	23684	387 5220	10266	1564	193	103
	31	153 0122	+172575	891 1667	+ 26470	386 4954	+ 11474	1569	220	114
	32	+0.170 2697		−0.888 5197		−0.385 3480		+1573	+248	+126

黄道傾角、光行差及平均黄經　昭和20年

世界時 0h 月	日	黄道傾角	光行差	平均黄經
		° ′ 23 26		
		″	″	°
1	1	43.75	−20.81	280.2892
	6	43.82	20.81	285.2174
	11	43.92	20.81	290.1456
	16	44.03	20.80	295.0739
	21	44.15	20.79	300.0021
	26	44.27	20.79	304.9303
	31	44.40	20.77	309.8586
2	5	44.54	−20.76	314.7868
	10	44.68	20.74	319.7150
	15	44.81	20.72	324.6433
	20	44.92	20.69	329.5715
	25	45.04	20.68	334.4998
3	2	45.13	−20.65	339.4280
	7	45.22	20.62	344.3562
	12	45.29	20.59	349.2845
	17	45.35	20.57	354.2127
	22	45.40	20.53	359.1409
	27	45.42	20.51	4.0692
4	1	45.42	−20.48	8.9974
	6	45.41	20.45	13.9256
	11	45.39	20.42	18.8539
	16	45.36	20.39	23.7821
	21	45.31	20.36	28.7103
	26	45.26	20.34	33.6386
5	1	45.21	−20.31	38.5668
	6	45.16	20.29	43.4950
	11	45.10	20.26	48.4233
	16	45.05	20.24	53.3515
	21	45.00	20.22	58.2797
	26	44.96	20.20	63.2080
	31	44.93	20.18	68.1362
6	5	44.92	−20.17	73.0645
	10	44.91	20.15	77.9927
	15	44.91	20.15	82.9209
	20	44.93	20.14	87.8492
	25	44.97	20.13	92.7774
	30	45.03	20.13	97.7056
7	5	45.09	−20.13	102.6339
7	5	45.09	−20.13	102.6339
	10	45.18	20.13	107.5621
	15	45.27	20.13	112.4903
	20	45.38	20.14	117.4186
	25	45.49	20.15	122.3468
	30	45.61	20.16	127.2750
8	4	45.73	−20.17	132.2033
	9	45.86	20.18	137.1315
	14	45.98	20.20	142.0597
	19	46.11	20.22	146.9880
	24	46.23	20.24	151.9162
	29	46.34	20.26	156.8444
9	3	46.44	−20.29	161.7727
	8	46.52	20.31	166.7009
	13	46.60	20.34	171.6292
	18	46.66	20.37	176.5574
	23	46.71	20.40	181.4856
	28	46.75	20.42	186.4139
10	3	46.76	−20.46	191.3421
	8	46.76	20.48	196.2703
	13	46.74	20.52	201.1986
	18	46.70	20.54	206.1268
	23	46.66	20.57	211.0550
	28	46.61	20.60	215.9833
11	2	46.55	−20.63	220.9115
	7	46.49	20.65	225.8397
	12	46.43	20.68	230.7680
	17	46.37	20.70	235.6962
	22	46.32	20.73	240.6244
	27	46.27	20.74	245.5527
12	2	46.23	−20.76	250.4809
	7	46.21	20.77	255.4091
	12	46.21	20.79	260.3374
	17	46.22	20.80	265.2656
	22	46.25	20.80	270.1939
	27	46.30	20.81	275.1221
	32	46.35	20.81	280.0503
12	37	46.42	−20.81	284.9786

平均黄經ノ1日差……+0.985647°

黄道傾角ハ短週期章動ヲ含マズ。之ガ改正ヲ要スルトキハ 150～155 頁所揭ノ $d\varepsilon$ ヲ加フベシ。

光行差 $= \frac{20''.47}{R}$ （R……地球ノ動徑）

氣節及雜節

氣	月	日	時	節	月	日	時	雜節	月	日	雜節	月	日
小寒	1	6	2	立夏	5	6	7	土用		1	半夏生	7	2
大寒	1	20	19	小滿	5	21	20	節分		2	土用	7	20
立春	2	4	13	芒種	6	6	11	彼岸入		3	二百十日	9	1
雨水	2	19	9	夏至	6	22	4	社日		3	彼岸	9	20
啓蟄	3	6	8	小暑	7	7	21	白露	9	8	10						
春分	3	21	9	大暑	7	23	15	秋分	9	23	19						
清明	4	5	13	立秋	8	8	7	寒露	10	9	1						
穀雨	4	20	20	處暑	8	23	22	霜降	10	24	4						
								立冬	11	8	4						
								小雪	11	23	1						
								大雪	12	7	20						
								冬至	12	22	14						
								入梅	6	11							
								彼岸明	3	24							
								土用	4	17							
								八十八夜	5	2							

1月1日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	8	47	15.21	132.57	+19	50	1.3	−348.0
1		49	27.78	132.27		44	13.3	353.8
2		51	40.05	131.98		38	19.5	359.5
3		53	52.03	131.68		32	20.0	365.1
4		56	3.71	131.39		26	14.9	370.6
5	8	58	15.10	131.10		20	4.3	376.1
6	9	0	26.20	130.81	+19	13	48.2	−381.6
7		2	37.01	130.51		7	26.6	387.0
8		4	47.52	130.21	19	0	59.6	392.3
9		6	57.73	129.92	18	54	27.3	397.5
10		9	7.65	129.62		47	49.8	402.8
11		11	17.27	129.32		41	7.0	407.9
12	9	13	26.59	129.03	+18	34	19.1	−413.0
13		15	35.62	128.73		27	26.1	418.1
14		17	44.35	128.44		20	28.0	423.1
15		19	52.79	128.14		13	24.9	428.0
16		22	0.93	127.85	18	6	16.9	432.9
17		24	8.78	127.55	17	59	4.0	437.6
18	9	26	16.33	127.25	+17	51	46.4	−442.4
19		28	23.58	126.96		44	24.0	447.1
20		30	30.54	126.67		36	56.9	451.8
21		32	37.21	126.38		29	25.1	456.4
22		34	43.59	126.09		21	48.7	460.9
23		36	49.68	125.79		14	7.8	465.3

1月2日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	9	38	55.47	125.50	+17	6	22.5	−469.7
1		41	0.97	125.22	16	58	32.8	474.1
2		43	6.19	124.93		50	38.7	478.4
3		45	11.12	124.64		42	40.3	482.7
4		47	15.76	124.36		34	37.6	486.8
5		49	20.12	124.08		26	30.8	491.0
6	9	51	24.20	123.80	+16	18	19.8	−495.1
7		53	28.00	123.51		10	4.7	499.1
8		55	31.51	123.23	16	1	45.6	503.0
9		57	34.74	122.96	15	53	22.6	507.0
10	9	59	37.70	122.69		44	55.6	510.9
11	10	1	40.39	122.41		36	24.7	514.6
12	10	3	42.80	122.13	+15	27	50.1	−518.4
13		5	44.93	121.86		19	11.7	522.1
14		7	46.79	121.59		10	29.6	525.8
15		9	48.38	121.33	15	1	43.8	529.3
16		11	49.71	121.06	14	52	54.5	532.9
17		13	50.77	120.80		44	1.6	536.3
18	10	15	51.57	120.55	+14	35	5.3	−539.8
19		17	52.12	120.28		26	5.5	543.2
20		19	52.40	120.03		17	2.3	546.5
21		21	52.43	119.77	14	7	55.8	549.8
22		23	52.20	119.52	13	58	46.0	553.0
23		25	51.72	119.26		49	33.0	556.3

1月3日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	10	27	50 98	119.02	+13	40	16.7	−559.4
1		29	50.00	118.78		30	57.3	562.4
2		31	48.78	118.54		21	34.9	565.5
3		33	47.32	118.30		12	9.4	568.5
4		35	45.62	118.06	13	2	40.9	571.4
5		37	43.68	117.82	12	53	9.5	574.2
6	10	39	41.50	117.60	+12	43	35.3	−577.1
7		41	39.10	117.37		33	58.2	579.9
8		43	36.47	117.14		24	18.3	582.6
9		45	33.61	116.91		14	35.7	585.4
10		47	30.52	116.69	12	4	50.3	588.0
11		49	27.21	116.48	11	55	2.3	−590.6
12	10	51	23.69		+11	45	11.7	

1月3日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	10	51	23.69	116.27	+11	45	11.7	−593.1
13		53	19.96	116.05		35	18.6	595.7
14		55	16.01	115.83		25	22.9	598.1
15		57	11.84	115.63		15	24.8	600.5
16	10	59	7.47	115.43	11	5	24.3	602.9
17	11	1	2.90	115.23	10	55	21.4	605.3
18	11	2	58.13	115.04	+10	45	16.1	−607.5
19		4	53.17	114.83		35	8.6	609.7
20		6	48.00	114.64		24	58 9	612.0
21		8	42.64	114.46		14	46.9	614.1
22		10	37.10	114.28	10	4	32.8	616.3
23		12	31.38	114.09	9	54	16.5	618.3

1月4日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	11	14	25.47	113.92	+ 9	43	58.2	−620.3
1		16	19.39	113.73		33	37.9	622.3
2		18	13.12	113.56		23	15.6	624.3
3		20	6.68	113.39		12	51.3	626.2
4		22	0.07	113.23	9	2	25.1	628.1
5		23	53.30	113.07	8	51	57.0	629.8
6	11	25	46.37	112.91	+ 8	41	27.2	−631.6
7		27	39.28	112.75		30	55.6	633.4
8		29	32.03	112.60		20	22.2	635.1
9		31	24.63	112.44	8	9	47.1	636.7
10		33	17.07	112.30	7	59	10.4	638.3
11		35	9.37	112.16		48	32.1	639.9
12	11	37	1.53	112.03	+ 7	37	52.2	−641.4
13		38	53.56	111.89		27	10.8	643.0
14		40	45.45	111.75		16	27.8	644.5
15		42	37.20	111.62	7	5	43.3	645.8
16		44	28.82	111.49	6	54	57.5	647.3
17		46	20.31	111.37		44	10.2	648.6
18	11	48	11.68	111.26	+ 6	33	21.6	−649.9
19		50	2.94	111.14		22	31.7	651.1
20		51	54.08	111.03		11	40.6	652.4
21		53	45.11	110.92	6	0	48.2	653.6
22		55	36.03	110.82	5	49	54.6	654.8
23		57	26.85	110.72		38	59.8	655.9

1月5日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	11	59	17.57	110.63	+ 5	28	3.9	−657.0
1	12	1	8.20	110.53		17	6.9	658.0
2		2	58.73	110.43	5	6	8.9	659.1
3		4	49.16	110.35	4	55	9.8	660.1
4		6	39.51	110.27		44	9.7	661.0
5		8	29.78	110.19		33	8.7	661.9
6	12	10	19.97	110.11	+ 4	22	6.8	−662.8
7		12	10.08	110.04		11	4.0	663.5
8		14	0.12	109.97	4	0	0.5	664.4
9		15	50.09	109.91	3	48	55.1	665.2
10		17	40.00	109.85		37	50.9	665.9
11		19	29.85	109.79		26	45.0	666.6
12	12	21	19.64	109.74	+ 3	15	38.4	−667.3
13		23	9.38	109.68		3	4	31.1	667.9
14		24	59.06	109.64	2	53	23.2	668.5
15		26	48.70	109.59		42	14.7	669.1
16		28	38.29	109.56		31	5.6	669.6
17		30	27.85	109.52		19	56.0	670.0
18	12	32	17.37	109.49	+ 2	8	46.0	−670.5
19		34	6.86	109.46		1	57	35.5	671.0
20		35	56.32	109.44			46	24.5	671.4
21		37	45.76	109.42			35	13.1	671.7
22		39	35.18	109.40			24	1.4	672.1
23		41	24.58	109.38			12	49.3	−672.3
24	12	43	13.96		+	1	1	37.0	

1 月 6 日

世界時	赤經				赤緯			
h	h	m	s	s	°	′	″	″
0	12	43	13.96	109.38	+1	1	37.0	−672.6
1		45	3.34	109.37	0	50	24.4	672.8
2		46	52.71	109.37		39	11.6	673.0
3		48	42.08	109.37		27	58.6	673.1
4		50	31.45	109.37		16	45.5	673.3
5		52	20.82	109.39	+0	5	32.2	673.3
6	12	54	10.21	109.40	−0	5	41.1	−673.4
7		55	59.61	109.42		16	54.5	673.4
8		57	49.03	109.43		28	7.9	673.4
9	12	59	38.46	109.46		39	21.3	673.3
10	13	1	27.92	109.49	0	50	34.6	673.3
11		3	17.41	109.52	1	1	47.9	673.1
12	13	5	6.93	109.56	−1	13	1.0	−673.0
13		6	56.49	109.60		24	14.0	672.8
14		8	46.09	109.64		35	26.8	672.6
15		10	35.73	109.68		46	39.4	672.3
16		12	25.41	109.73	1	57	51.7	672.1
17		14	15.14	109.79	2	9	3.8	671.7
18	13	16	4.93	109.85	−2	20	15.5	−671.4
19		17	54.78	109.91		31	26.9	670.9
20		19	44.69	109.98		42	37.8	670.5
21		21	34.67	110.04	2	53	48.3	670.1
22		23	24.71	110.11	3	4	58.4	669.6
23		25	14.82	110.19		16	8.0	669.0

1 月 7 日

世界時	赤經				赤緯			
0	13	27	5.01	110.27	−3	27	17.0	−668.4
1		28	55.28	110.36		38	25.4	667.8
2		30	45.64	110.45	3	49	33.2	667.2
3		32	36.09	110.54	4	0	40.4	666.5
4		34	26.63	110.63		11	46.9	665.8
5		36	17.26	110.73		22	52.7	665.1
6	13	38	7.99	110.84	−4	33	57.8	−664.3
7		39	58.83	110.94		45	2.1	663.4
8		41	49.77	111.05	4	56	5.5	662.6
9		43	40.82	111.16	5	7	8.1	661.7
10		45	31.98	111.29		18	9.8	660.8
11		47	23.27	111.41		29	10.6	659.7
12	13	49	14.68	111.53	−5	40	10.3	−658.8
13		51	6.21	111.65	5	51	9.1	657.7
14		52	57.86	111.79	6	2	6.8	656.6
15		54	49.65	111.93		13	3.4	655.5
16		56	41.58	112.07		23	58.9	654.4
17	13	58	33.65	112.21		34	53.3	653.1
18	14	0	25.86	112.36	−6	45	46.4	−651.9
19		2	18.22	112.51	6	56	38.3	650.6
20		4	10.73	112.66	7	7	28.9	649.3
21		6	3.39	112.82		18	18.2	647.9
22		7	56.21	112.99		29	6.1	646.5
23		9	49.20	113.15		39	52.6	645.1

1 月 8 日

世界時	赤經				赤緯			
0	14	11	42.35	113.32	−7	50	37.7	−643.6
1		13	35.67	113.49	8	1	21.3	642.0
2		15	29.16	113.67		12	3.3	640.5
3		17	22.83	113.84		22	43.8	638.9
4		19	16.67	114.03		33	22.7	637.3
5		21	10.70	114.21		44	0.0	635.5
6	14	23	4.91	114.40	−8	54	35.5	−633.8
7		24	59.31	114.59	9	5	9.3	632.0
8		26	53.90	114.80		15	41.3	630.2
9		28	48.70	115.00		26	11.5	628.4
10		30	43.70	115.20		36	39.9	626.4
11		32	38.90	115.40		47	6.3	−624.4
12	14	34	34.30		−9	57	30.7	

1 月 8 日

世界時	赤經				赤緯			
h	h	m	s	s	°	′	″	″
12	14	34	34.30	115.61	−9	57	30.7	−622.4
13		36	29.91	115.83	10	7	53.1	620.4
14		38	25.74	116.05		18	13.5	618.3
15		40	21.79	116.27		28	31.8	616.2
16		42	18.06	116.50		38	48.0	614.0
17		44	14.56	116.71		49	2.0	611.8
18	14	46	11.27	116.94	−10	59	13.8	−609.5
19		48	8.21	117.18	11	9	23.3	607.1
20		50	5.39	117.42		19	30.4	604.8
21		52	2.81	117.66		29	35.2	602.3
22		54	0.47	117.90		39	37.5	599.9
23		55	58.37	118.14		49	37.4	597.3

1 月 9 日

世界時	赤經				赤緯			
0	14	57	56.51	118.39	−11	59	34.7	−594.7
1	14	59	54.90	118.65	12	9	29.4	592.1
2	15	1	53.55	118.91		19	21.5	589.4
3		3	52.46	119.16		29	10.9	586.7
4		5	51.62	119.42		38	57.6	583.9
5		7	51.04	119.69		48	41.5	581.1
6	15	9	50.73	119.96	−12	58	22.6	−578.2
7		11	50.69	120.23	13	8	0.8	575.2
8		13	50.92	120.49		17	36.0	572.2
9		15	51.41	120.77		27	8.2	569.2
10		17	52.18	121.05		36	37.4	566.1
11		19	53.23	121.33		46	3.5	563.0
12	15	21	54.56	121.62	−13	55	26.5	−559.7
13		23	56.18	121.89	14	4	46.2	556.5
14		25	58.07	122.18		14	2.7	553.2
15		28	0.25	122.48		23	15.9	549.8
16		30	2.73	122.77		32	25.7	546.4
17		32	5.50	123.06		41	32.1	542.8
18	15	34	8.56	123.36	−14	50	34.9	−539.3
19		36	11.92	123.66	14	59	34.2	535.7
20		38	15.58	123.97	15	8	29.9	532.1
21		40	19.55	124.27		17	22.0	528.3
22		42	23.82	124.57		26	10.3	524.5
23		44	28.39	124.88		34	54.8	520.7

1 月 10 日

世界時	赤經				赤緯			
0	15	46	33.27	125.19	−15	43	35.5	−516.8
1		48	38.46	125.50	15	52	12.3	512.8
2		50	43.96	125.82	16	0	45.1	508.8
3		52	49.78	126.13		9	13.9	504.8
4		54	55.91	126.45		17	38.7	500.7
5		57	2.36	126.77		25	59.4	496.4
6	15	59	9.13	127.09	−16	34	15.8	−492.2
7	16	1	16.22	127.41		42	28.0	487.8
8		3	23.63	127.74		50	35.8	483.4
9		5	31.37	128.06	16	58	39.2	479.0
10		7	39.43	128.38	17	6	38.2	474.5
11		9	47.81	128.70		14	32.7	469.9
12	16	11	56.51	129.04	−17	22	22.6	−465.3
13		14	5.55	129.37		30	7.9	460.6
14		16	14.92	129.70		37	48.5	455.8
15		18	24.62	130.02		45	24.3	451.0
16		20	34.64	130.35	17	52	55.3	446.1
17		22	44.99	130.69	18	0	21.4	441.1
18	16	24	55.68	131.02	−18	7	42.5	−436.1
19		27	6.70	131.36		14	58.6	431.0
20		29	18.06	131.68		22	9.6	425.9
21		31	29.74	132.02		29	15.5	420.7
22		33	41.76	132.35		36	16.2	415.4
23		35	54.11	132.69		43	11.6	−410.0
24	16	38	6.80		−18	50	1.6	

1 月 11 日

世界時	赤經				赤緯			
h	h	m	s	s	°	′	″	″
0	16	38	6.80	133.02	−18	50	1.6	−404.6
1		40	19.82	133.35	18	56	46.2	399.2
2		42	33.17	133.69	19	3	25.4	393.6
3		44	46.86	134.02		9	59.0	388.0
4		47	0.88	134.35		16	27.0	382.3
5		49	15.23	134.69		22	49.3	376.6
6	16	51	29.92	135.02	−19	29	5.9	−370.8
7		53	44.94	135.34		35	16.7	364.9
8		56	0.28	135.66		41	21.6	359.0
9	16	58	15.94	136.00		47	20.6	353.0
10	17	0	31.94	136.33		53	13.6	347.0
11		2	48.27	136.66	19	59	0.6	340.8
12	17	5	4.93	136.98	−20	4	41.4	−334.6
13		7	21.91	137.30		10	16.0	328.4
14		9	39.21	137.62		15	44.4	322.1
15		11	56.83	137.95		21	6.5	315.7
16		14	14.78	138.27		26	22.2	309.3
17		16	33.05	138.58		31	31.5	302.7
18	17	18	51.63	138.89	−20	36	34.2	−296.2
19		21	10.52	139.20		41	30.4	289.5
20		23	29.72	139.52		46	19.9	282.8
21		25	49.24	139.82		51	2.7	276.1
22		28	9.06	140.13	20	55	38.8	269.3
23		30	29.19	140.43	21	0	8.1	262.4

1 月 12 日

世界時	赤經				赤緯			
0	17	32	49.62	140.73	−21	4	30.5	−255.5
1		35	10.35	141.03		8	46.0	248.5
2		37	31.38	141.32		12	54.5	241.4
3		39	52.70	141.62		16	55.9	234.3
4		42	14.32	141.91		20	50.2	227.2
5		44	36.23	142.18		24	37.4	220.0
6	17	46	58.41	142.47	−21	28	17.4	−212.7
7		49	20.88	142.74		31	50.1	205.3
8		51	43.62	143.02		35	15.4	197.9
9		54	6.64	143.29		38	33.3	190.5
10		56	29.93	143.56		41	43.8	183.0
11	17	58	53.49	143.81		44	46.8	175.4
12	18	1	17.30	144.08	−21	47	42.2	−167.9
13		3	41.38	144.33		50	30.1	160.2
14		6	5.71	144.58		53	10.3	152.5
15		8	30.29	144.83		55	42.8	144.7
16		10	55.12	145.07	21	58	7.5	137.0
17		13	20.19	145.30	22	0	24.5	129.1
18	18	15	45.49	145.54	−22	2	33.6	−121.2
19		18	11.03	145.76		4	34.8	113.3
20		20	36.79	145.98		6	28.1	105.3
21		23	2.77	146.20		8	13.4	97.3
22		25	28.97	146.42		9	50.7	89.3
23		27	55.39	146.61		11	20.0	81.1

1 月 13 日

世界時	赤經				赤緯			
0	18	30	22.00	146.82	−22	12	41.1	−73.0
1		32	48.82	147.02		13	54.1	64.8
2		35	15.84	147.21		14	58.9	56.6
3		37	43.05	147.39		15	55.5	48.4
4		40	10.44	147.58		16	43.9	40.1
5		42	38.02	147.75		17	24.0	31.7
6	18	45	5.77	147.92	−22	17	55.7	−23.4
7		47	33.69	148.07		18	19.1	15.1
8		50	1.76	148.23		18	34.2	−6.7
9		52	29.99	148.39		18	40.9	+1.8
10		54	58.38	148.54		18	39.1	10.3
11		57	26.92	148.67		18	28.8	+18.7
12	18	59	55.59		−22	18	10.1	

1 月 13 日

世界時	赤經				赤緯			
h	h	m	s	s	°	′	″	″
12	18	59	55.59	148.81	−22	18	10.1	+27.2
13	19	2	24.40	148.93		17	42.9	35.7
14		4	53.33	149.05		17	7.2	44.3
15		7	22.38	149.17		16	22.9	52.8
16		9	51.55	149.28		15	30.1	61.4
17		12	20.83	149.38		14	28.7	69.9
18	19	14	50.21	149.48	−22	13	18.8	+78.6
19		17	19.69	149.56		12	0.2	87.1
20		19	49.25	149.65		10	33.1	95.8
21		22	18.90	149.72		8	57.3	104.4
22		24	48.62	149.80		7	12.9	113.1
23		27	18.42	149.86		5	19.8	121.7

1 月 14 日

世界時	赤經				赤緯			
0	19	29	48.28	149.92	−22	3	18.1	+130.4
1		32	18.20	149.98	22	1	7.7	139.0
2		34	48.18	150.02	21	58	48.7	147.7
3		37	18.20	150.06		56	21.0	156.3
4		39	48.26	150.09		53	44.7	164.9
5		42	18.35	150.12		50	59.8	173.5
6	19	44	48.47	150.14	−21	48	6.3	+182.2
7		47	18.61	150.15		45	4.1	190.8
8		49	48.76	150.16		41	53.3	199.4
9		52	18.92	150.16		38	33.9	208.0
10		54	49.08	150.16		35	5.9	216.6
11		57	19.24	150.15		31	29.3	225.2
12	19	59	49.39	150.14	−21	27	44.1	+233.7
13	20	2	19.53	150.12		23	50.4	242.3
14		4	49.65	150.08		19	48.1	250.8
15		7	19.73	150.04		15	37.3	259.2
16		9	49.77	150.01		11	18.1	267.7
17		12	19.78	149.97		6	50.4	276.2
18	20	14	49.75	149.91	−21	2	14.2	+284.6
19		17	19.66	149.85	20	57	29.6	292.9
20		19	49.51	149.79		52	36.7	301.3
21		22	19.30	149.73		47	35.4	309.7
22		24	49.03	149.65		42	25.7	318.0
23		27	18.68	149.57		37	7.7	326.2

1 月 15 日

世界時	赤經				赤緯			
0	20	29	48.25	149.49	−20	31	41.5	+334.5
1		32	17.74	149.40		26	7.0	342.6
2		34	47.14	149.31		20	24.4	350.7
3		37	16.45	149.20		14	33.7	358.9
4		39	45.65	149.10		8	34.8	367.0
5		42	14.75	148.99	20	2	27.8	374.9
6	20	44	43.74	148.88	−19	56	12.9	+382.9
7		47	12.62	148.76		49	50.0	390.9
8		49	41.38	148.63		43	19.1	398.8
9		52	10.01	148.51		36	40.3	406.5
10		54	38.52	148.38		29	53.8	414.4
11		57	6.90	148.25		22	59.4	422.1
12	20	59	35.15	148.11	−19	15	57.3	+429.8
13	21	2	3.26	147.96		8	47.5	437.3
14		4	31.22	147.81	19	1	30.2	445.0
15		6	59.03	147.66	18	54	5.2	452.5
16		9	26.69	147.51		46	32.7	459.9
17		11	54.20	147.34		38	52.8	467.3
18	21	14	21.54	147.18	−18	31	5.5	+474.7
19		16	48.72	147.02		23	10.8	481.9
20		19	15.74	146.85		15	8.9	489.1
21		21	42.59	146.68	18	6	59.8	496.2
22		24	9.27	146.51	17	58	43.6	503.3
23		26	35.78	146.32		50	20.3	+510.4
24	21	29	2.10		−17	41	49.9	

1 月 16 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	21	29	2.10		−17	41	49.9	
1		31	28.25	146.15		33	12.6	+517.3
2		33	54.21	145.96		24	28.5	524.1
3		36	19.99	145.78		15	37.5	531.0
4		38	45.58	145.59	17	6	39.8	537.7
5		41	10.99	145.41	16	57	35.4	544.4
				145.21				551.0
6	21	43	36.20		−16	48	24.4	
7		46	1.22	145.02		39	6.9	+557.5
8		48	26.04	144.82		29	43.0	563.9
9		50	50.67	144.63		20	12.7	570.3
10		53	15.10	144.43		10	36.1	576.6
11		55	39.33	144.23	16	0	53.3	582.8
				144.03				589.0
12	21	58	3.36		−15	51	4.3	
13	22	0	27.18	143.82		41	9.2	+595.1
14		2	50.80	143.62		31	8.2	601.0
15		5	14.22	143.42		21	1.2	607.0
16		7	37.43	143.21		10	48.4	612.8
17		10	0.43	143.00	15	0	29.8	618.6
				142.80				624.2
18	22	12	23.23		−14	50	5.6	
19		14	45.82	142.59		39	35.8	+629.8
20		17	8.20	142.38		29	0.4	635.4
21		19	30.37	142.17		18	19.6	640.8
22		21	52.34	141.97	14	7	33.5	646.1
23		24	14.10	141.76	13	56	42.1	651.4
				141.54				656.6

1 月 17 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	22	26	35.64		−13	45	45.5	
1		28	56.97	141.33		34	43.8	+661.7
2		31	18.10	141.13		23	37.1	666.7
3		33	39.02	140.92		12	25.4	671.7
4		35	59.74	140.72	13	1	8.9	676.5
5		38	20.24	140.50	12	49	47.6	681.3
				140.30				686.0
6	22	40	40.54		−12	38	21.6	
7		43	0.63	140.09		26	51.0	+690.6
8		45	20.52	139.89		15	15.9	695.1
9		47	40.21	139.69	12	3	36.4	699.5
10		49	59.69	139.48	11	51	52.5	703.9
11		52	18.97	139.28		40	4.4	708.1
				139.07				712.3
12	22	54	38.04		−11	28	12.1	
13		56	56.92	138.88		16	15.7	+716.4
14	22	59	15.60	138.68	11	4	15.3	720.4
15	23	1	34.08	138.48	10	52	11.0	724.3
16		3	52.37	138.29		40	2.8	728.2
17		6	10.46	138.09		27	50.9	731.9
				137.90				735.5
18	23	8	28.36		−10	15	35.4	
19		10	46.07	137.71	10	3	16.3	+739.1
20		13	3.59	137.52	9	50	53.7	742.6
21		15	20.93	137.34		38	27.7	746.0
22		17	38.08	137.15		25	58.4	749.3
23		19	55.05	136.97		13	25.9	752.5
				136.79				755.7

1 月 18 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	23	22	11.84		− 9	0	50.2	
1		24	28.45	136.61	8	48	11.5	+758.7
2		26	44.88	136.43		35	29.8	761.7
3		29	1.14	136.26		22	45.2	764.6
4		31	17.22	136.08	8	9	57.9	767.3
5		33	33.14	135.92	7	57	7.9	770.0
				135.75				772.7
6	23	35	48.89		− 7	44	15.2	
7		38	4.48	135.59		31	20.0	+775.2
8		40	19.90	135.42		18	22.3	777.7
9		42	35.17	135.27	7	5	22.3	780.0
10		44	50.28	135.11	6	52	20.0	782.3
11		47	5.24	134.96		39	15.6	784.4
12	23	49	20.04	134.80	− 6	26	9.0	+786.6

1 月 18 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	23	49	20.04		− 6	26	9.0	
13		51	34.70	134.66	6	13	0.4	+788.6
14		53	49.22	134.52	5	59	49.8	790.6
15		56	3.59	134.37		46	37.4	792.4
16	23	58	17.82	134.23		33	23.2	794.2
17	0	0	31.92	134.10		20	7.3	795.9
				133.97				797.4
18	0	2	45.89		− 5	6	49.9	
19		4	59.73	133.84	4	53	30.9	+799.0
20		7	13.43	133.70		40	10.5	800.4
21		9	27.01	133.58		26	48.8	801.7
22		11	40.47	133.46		13	25.8	803.0
23		13	53.82	133.35	4	0	1.6	804.2
				133.23				805.3

1 月 19 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	0	16	7.05		− 3	46	36.3	
1		18	20.17	133.12		33	9.9	+806.4
2		20	33.18	133.01		19	42.6	807.3
3		22	46.09	132.91	3	6	14.5	808.1
4		24	58.90	132.81	2	52	45.6	808.9
5		27	11.61	132.71		39	16.0	809.6
				132.62				810.3
6	0	29	24.23		− 2	25	45.7	
7		31	36.76	132.53	2	12	14.9	+810.8
8		33	49.20	132.44	1	58	43.8	811.1
9		36	1.56	132.36		45	12.3	811.5
10		38	13.83	132.27		31	40.4	811.9
11		40	26.03	132.20		18	8.3	812.1
				132.12				812.2
12	0	42	38.15		− 1	4	36.1	
13		44	50.21	132.06	0	51	3.8	+812.3
14		47	2.20	131.99		37	31.6	812.2
15		49	14.13	131.93		23	59.5	812.1
16		51	26.00	131.87	− 0	10	27.5	812.0
17		53	37.82	131.82	+ 0	3	4.2	811.7
				131.76				811.3
18	0	55	49.58		+ 0	16	35.5	
19	0	58	1.29	131.71		30	6.4	+810.9
20	1	0	12.96	131.67		43	36.8	810.4
21		2	24.59	131.63	0	57	6.6	809.8
22		4	36.18	131.59	1	10	35.8	809.2
23		6	47.74	131.56		24	4.3	808.5
				131.53				807.7

1 月 20 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	1	8	59.27		+ 1	37	32.0	
1		11	10.76	131.49	1	50	58.8	+806.8
2		13	22.23	131.47	2	4	24.7	805.9
3		15	33.68	131.45		17	49.5	804.8
4		17	45.12	131.44		31	13.2	803.7
5		19	56.55	131.43		44	35.7	802.5
				131.41				801.3
6	1	22	7.96		+ 2	57	57.0	
7		24	19.37	131.41	3	11	16.9	+799.9
8		26	30.77	131.40		24	35.4	798.5
9		28	42.18	131.41		37	52.5	797.1
10		30	53.59	131.41	3	51	8.0	795.5
11		33	5.01	131.42	4	4	21.8	793.8
				131.43				792.1
12	1	35	16.44		+ 4	17	33.9	
13		37	27.88	131.44		30	44.3	+790.4
14		39	39.34	131.46		43	52.8	788.5
15		41	50.83	131.49	4	56	59.4	786.6
16		44	2.34	131.51	5	10	4.1	784.7
17		46	13.87	131.53		23	6.7	782.6
				131.57				780.4
18	1	48	25.44		+ 5	36	7.1	
19		50	37.04	131.60	5	49	5.2	+778.1
20		52	48.68	131.64	6	2	1.1	775.9
21		55	0.37	131.69		14	54.7	773.6
22		57	12.10	131.73		27	45.9	771.2
23	1	59	23.87	131.77		40	34.6	768.7
24	2	1	35.68	131.81	+ 6	53	20.7	+766.1

1 月 21 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	2	1	35.68		+ 6	53	20.7	
1		3	47.55	131.87	7	6	4.2	+763.5
2		5	59.48	131.93		18	44.9	760.7
3		8	11.48	132.00		31	22.9	758.0
4		10	23.54	132.06		43	58.1	755.2
5		12	35.66	132.12	7	56	30.3	752.2
				132.18				749.2
6	2	14	47.84		+ 8	8	59.5	
7		17	0.09	132.25		21	25.7	+746.2
8		19	12.42	132.33		33	48.8	743.1
9		21	24.83	132.41		46	8.7	739.9
10		23	37.32	132.49	8	58	25.4	736.7
11		25	49.89	132.57	9	10	38.7	733.3
				132.65				729.9
12	2	28	2.54		+ 9	22	48.6	
13		30	15.27	132.73		34	55.0	+726.4
14		32	28.10	132.83		46	57.9	722.9
15		34	41.02	132.92	9	58	57.2	719.3
16		36	54.04	133.02	10	10	52.9	715.7
17		39	7.15	133.11		22	44.9	712.0
				133.21				708.2
18	2	41	20.36		+10	34	33.1	
19		43	33.68	133.32		46	17.4	+704.3
20		45	47.10	133.42	10	57	57.7	700.3
21		48	0.62	133.52	11	9	34.1	696.4
22		50	14.24	133.62		21	6.4	692.3
23		52	27.98	133.74		32	34.6	688.2
				133.85				684.0

1 月 22 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	2	54	41.83		+11	43	58.6	
1		56	55.79	133.96	11	55	18.3	+679.7
2	2	59	9.87	134.08	12	6	33.7	675.4
3	3	1	24.07	134.20		17	44.7	671.0
4		3	38.39	134.32		28	51.3	666.6
5		5	52.83	134.44		39	53.4	662.1
				134.56				657.5
6	3	8	7.39		+12	50	50.9	
7		10	22.08	134.69	13	1	43.8	+652.9
8		12	36.89	134.81		12	32.0	648.2
9		14	51.83	134.94		23	15.4	643.4
10		17	6.90	135.07		33	54.0	638.6
11		19	22.09	135.19		44	27.7	633.7
				135.33				628.8
12	3	21	37.42		+13	54	56.5	
13		23	52.88	135.46	14	5	20.3	+623.8
14		26	8.47	135.59		15	39.0	618.7
15		28	24.19	135.72		25	52.6	613.6
16		30	40.05	135.86		36	1.0	608.4
17		32	56.04	135.99		46	4.2	603.2
				136.13				597.8
18	3	35	12.17		+14	56	2.0	
19		37	28.44	136.27	15	5	54.5	+592.5
20		39	44.84	136.40		15	41.6	587.1
21		42	1.38	136.54		25	23.2	581.6
22		44	18.06	136.68		34	59.2	576.0
23		46	34.87	136.81		44	29.7	570.5
				136.95				564.8

1 月 23 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	3	48	51.82		+15	53	54.5	
1		51	8.91	137.09	16	3	13.6	+559.1
2		53	26.14	137.23		12	27.0	553.4
3		55	43.51	137.37		21	34.5	547.5
4	3	58	1.01	137.50		30	36.2	541.7
5	4	0	18.66	137.65		39	32.0	535.8
				137.79				529.7
6	4	2	36.45		+16	48	21.7	
7		4	54.37	137.92	16	57	5.4	+523.7
8		7	12.42	138.05	17	5	43.1	517.7
9		9	30.62	138.20		14	14.6	511.5
10		11	48.95	138.33		22	39.9	505.3
11		14	7.41	138.46		30	59.0	499.1
12	4	16	26.01	138.60	+17	39	11.9	+492.9

1 月 23 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	4	16	26.01		+17	39	11.9	
13		18	44.74	138.73		47	18.5	+486.6
14		21	3.61	138.87	17	55	18.6	480.1
15		23	22.61	139.00	18	3	12.2	473.6
16		25	41.73	139.12		10	59.4	467.2
17		28	0.98	139.25		18	40.1	460.7
				139.38				454.1
18	4	30	20.36		+18	26	14.2	
19		32	39.87	139.51		33	41.7	+447.5
20		34	59.50	139.63		41	2.5	440.8
21		37	19.25	139.75		48	16.6	434.1
22		39	39.12	139.87	18	55	24.0	427.4
23		41	59.11	139.99	19	2	24.6	420.6
				140.11				413.7

1 月 24 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	4	44	19.22		+19	9	18.3	
1		46	39.44	140.22		16	5.1	+406.8
2		48	59.78	140.34		22	45.0	399.9
3		51	20.23	140.45		29	18.0	393.0
4		53	40.78	140.55		35	43.9	385.9
5		56	1.44	140.66		42	2.8	378.9
				140.76				371.9
6	4	58	22.20		+19	48	14.7	
7	5	0	43.06	140.86	19	54	19.5	+364.8
8		3	4.02	140.96	20	0	17.1	357.6
9		5	25.08	141.06		6	7.5	350.4
10		7	46.23	141.15		11	50.7	343.2
11		10	7.47	141.24		17	26.6	335.9
				141.33				328.7
12	5	12	28.80		+20	22	55.3	
13		14	50.21	141.41		28	16.7	+321.4
14		17	11.69	141.48		33	30.7	314.0
15		19	33.26	141.57		38	37.4	306.7
16		21	54.90	141.64		43	36.6	299.2
17		24	16.62	141.72		48	28.4	291.8
				141.78				284.4
18	5	26	38.40		+20	53	12.8	
19		29	0.25	141.85	20	57	49.7	+276.9
20		31	22.15	141.90	21	2	19.1	269.4
21		33	44.11	141.96		6	41.0	261.9
22		36	6.13	142.02		10	55.3	254.3
23		38	28.20	142.07		15	2.1	246.8
				142.10				239.1

1 月 25 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	5	40	50.30		+21	19	1.2	
1		43	12.45	142.15		22	52.8	+231.6
2		45	34.64	142.19		26	36.7	223.9
3		47	56.86	142.22		30	12.9	216.2
4		50	19.12	142.26		33	41.5	208.6
5		52	41.41	142.29		37	2.4	200.9
				142.30				193.3
6	5	55	3.71		+21	40	15.7	
7		57	26.03	142.32		43	21.3	+185.6
8	5	59	48.36	142.33		46	19.1	177.8
9	6	2	10.70	142.34		49	9.2	170.1
10		4	33.04	142.34		51	51.5	162.3
11		6	55.39	142.35		54	26.1	154.6
				142.34				146.9
12	6	9	17.73		+21	56	53.0	
13		11	40.07	142.34	21	59	12.1	+139.1
14		14	2.39	142.32	22	1	23.5	131.4
15		16	24.70	142.31		3	27.1	123.6
16		18	46.98	142.28		5	22.9	115.8
17		21	9.24	142.26		7	11.0	108.1
				142.22				100.3
18	6	23	31.46		+22	8	51.3	
19		25	53.65	142.19		10	23.8	+ 92.5
20		28	15.80	142.15		11	48.5	84.7
21		30	37.90	142.10		13	5.5	77.0
22		32	59.96	142.06		14	14.7	69.2
23		35	21.97	142.01		15	16.2	61.5
24	6	37	43.91	141.94	+22	16	9.9	+ 53.7

1 月 26 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	6	37	43.91		+22	16	9.9	
1		40	5.79	141.88		16	55.8	+ 45.9
2		42	27.61	141.82		17	34.0	38.2
3		44	49.36	141.75		18	4.5	30.5
4		47	11.02	141.66		18	27.2	22.7
5		49	32.60	141.58		18	42.2	15.0
				141.50				+ 7.4
6	6	51	54.10		+22	18	49.6	
7		54	15.51	141.41		18	49.3	− 0.3
8		56	36.83	141.32		18	41.4	7.9
9	6	58	58.05	141.22		18	25.8	15.6
10	7	1	19.16	141.11		18	2.5	23.3
11		3	40.17	141.01		17	31.6	30.9
				140.89				38.4
12	7	6	1.06		+22	16	53.2	
13		8	21.84	140.78		16	7.2	− 46.0
14		10	42.49	140.65		15	13.6	53.6
15		13	3.02	140.53		14	12.5	61.1
16		15	23.41	140.39		13	3.9	68.6
17		17	43.68	140.27		11	47.8	76.1
				140.12				83.6
18	7	20	3.80		+22	10	24.2	
19		22	23.78	139.98		8	53.3	− 90.9
20		24	43.62	139.84		7	15.0	98.3
21		27	3.31	139.69		5	29.3	105.7
22		29	22.83	139.52		3	36.2	113.1
23		31	42.20	139.37	22	1	35.7	120.5
				139.20				127.7

1 月 27 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	7	34	1.40		+21	59	28.0	
1		36	20.44	139.04		57	13.1	−134.9
2		38	39.30	138.86		54	51.0	142.1
3		40	57.99	138.69		52	21.7	149.3
4		43	16.51	138.52		49	45.2	156.5
5		45	34.85	138.34		47	1.6	163.6
				138.15				170.7
6	7	47	53.00		+21	44	10.9	
7		50	10.96	137.96		41	13.2	−177.7
8		52	28.73	137.77		38	8.6	184.6
9		54	46.31	137.58		34	56.9	191.7
10		57	3.68	137.37		31	38.3	198.6
11	7	59	20.85	137.17		28	12.8	205.5
				136.96				212.2
12	8	1	37.81		+21	24	40.6	
13		3	54.57	136.76		21	1.5	−219.1
14		6	11.12	136.55		17	15.6	225.9
15		8	27.45	136.33		13	23.0	232.6
16		10	43.56	136.11		9	23.8	239.2
17		12	59.45	135.89		5	17.9	245.9
				135.67				252.4
18	8	15	15.12		+21	1	5.5	
19		17	30.56	135.44	20	56	46.5	−259.0
20		19	45.78	135.22		52	21.0	265.5
21		22	0.77	134.99		47	49.0	272.0
22		24	15.52	134.75		43	10.7	278.3
23		26	30.04	134.52		38	26.0	284.7
				134.27				291.0

1 月 28 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	8	28	44.31		+20	33	35.0	
1		30	58.35	134.04		28	37.7	−297.3
2		33	12.14	133.79		23	34.2	303.5
3		35	25.69	133.55		18	24.6	309.6
4		37	38.99	133.30		13	8.8	315.8
5		39	52.04	133.05		7	47.0	321.8
				132.81				327.8
6	8	42	4.85		+20	2	19.2	
7		44	17.41	132.56	19	56	45.5	−333.7
8		46	29.71	132.30		51	5.8	339.7
9		48	41.76	132.05		45	20.3	345.5
10		50	53.55	131.79		39	29.0	351.3
11		53	5.09	131.54		33	31.9	357.1
12	8	55	16.36	131.27	+19	27	29.2	−362.7

1 月 28 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	8	55	16.36		+19	27	29.2	
13		57	27.38	131.02		21	20.8	−368.4
14	8	59	38.14	130.76		15	6.9	373.9
15	9	1	48.64	130.50		8	47.4	379.5
16		3	58.87	130.23	19	2	22.4	385.0
17		6	8.84	129.97	18	55	52.0	390.4
				129.71				395.7
18	9	8	18.55		+18	49	16.3	
19		10	27.99	129.44		42	35.2	−401.1
20		12	37.17	129.18		35	48.9	406.3
21		14	46.08	128.91		28	57.4	411.5
22		16	54.73	128.65		22	0.7	416.7
23		19	3.11	128.38		14	58.9	421.8
				128.11				426.7

1 月 29 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	9	21	11.22		+18	7	52.2	
1		23	19.06	127.84	18	0	40.4	−431.8
2		25	26.64	127.58	17	53	23.7	436.7
3		27	33.95	127.31		46	2.1	441.6
4		29	41.00	127.05		38	35.7	446.4
5		31	47.77	126.77		31	4.5	451.2
				126.51				455.9
6	9	33	54.28		+17	23	28.6	
7		36	0.53	126.25		15	48.0	−460.6
8		38	6.51	125.98		8	2.9	465.1
9		40	12.22	125.71	17	0	13.2	469.7
10		42	17.66	125.44	16	52	19.1	474.1
11		44	22.84	125.18		44	20.5	478.6
				124.91				482.9
12	9	46	27.75		+16	36	17.6	
13		48	32.41	124.66		28	10.3	−487.3
14		50	36.80	124.39		19	58.8	491.5
15		52	40.93	124.13		11	43.1	495.7
16		54	44.79	123.86	16	3	23.2	499.9
17		56	48.39	123.60	15	54	59.2	504.0
				123.34				508.0
18	9	58	51.73		+15	46	31.2	
19	10	0	54.82	123.09		37	59.2	−512.0
20		2	57.65	122.83		29	23.2	516.0
21		5	0.23	122.58		20	43.3	519.9
22		7	2.55	122.32		11	59.7	523.6
23		9	4.61	122.06	15	3	12.3	527.4
				121.81				531.1

1 月 30 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	10	11	6.42		+14	54	21.2	
1		13	7.99	121.57		45	26.4	−534.8
2		15	9.30	121.31		36	27.9	538.5
3		17	10.36	121.06		27	25.9	542.0
4		19	11.18	120.82		18	20.5	545.4
5		21	11.75	120.57	14	9	11.6	548.9
				120.33				552.2
6	10	23	12.08		+13	59	59.4	
7		25	12.17	120.09		50	43.8	−555.6
8		27	12.02	119.85		41	24.8	559.0
9		29	11.64	119.62		32	2.6	562.2
10		31	11.02	119.38		22	37.3	565.3
11		33	10.16	119.14		13	8.8	568.5
				118.91				571.5
12	10	35	9.07		+13	3	37.3	
13		37	7.74	118.67	12	54	2.7	−574.6
14		39	6.19	118.45		44	25.2	577.5
15		41	4.41	118.22		34	44.7	580.5
16		43	2.41	118.00		25	1.4	583.3
17		45	0.19	117.78		15	15.2	586.2
				117.56				589.0
18	10	46	57.75		+12	5	26.2	
19		48	55.10	117.35	11	55	34.5	−591.7
20		50	52.23	117.13		45	40.2	594.3
21		52	49.15	116.92		35	43.2	597.0
22		54	45.86	116.71		25	43.7	599.5
23		56	42.37	116.51		15	41.6	602.1
24	10	58	38.67	116.30	+11	5	37.0	−604.6

1 月 31 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	10	58	38.67		+11	5	37.0	
1	11	0	34.76	116.09	10	55	29.9	−607.1
2		2	30.65	115.89		45	20.4	609.5
3		4	26.35	115.70		35	8.7	611.7
4		6	21.84	115.49		24	54.7	614.0
5		8	17.15	115.31		14	38.5	616.2
				115.11				618.4
6	11	10	12.26		+10	4	20.1	
7		12	7.19	114.93	9	53	59.6	−620.5
8		14	1.93	114.74		43	36.9	622.7
9		15	56.49	114.56		33	12.1	624.8
10		17	50.87	114.38		22	45.4	626.7
11		19	45.07	114.20		12	16.7	628.7
				114.02				630.6
12	11	21	39.09		+ 9	1	46.1	
13		23	32.95	113.86	8	51	13.6	−632.5
14		25	26.64	113.69		40	39.3	634.3
15		27	20.16	113.52		30	3.2	636.1
16		29	13.52	113.36		19	25.3	637.9
17		31	6.72	113.20	8	8	45.7	639.6
				113.04				641.2
18	11	32	59.76		+ 7	58	4.5	
19		34	52.66	112.90		47	21.8	−642.7
20		36	45.40	112.74		36	37.5	644.3
21		38	37.99	112.59		25	51.6	645.9
22		40	30.44	112.45		15	4.2	647.4
23		42	22.75	112.31	7	4	15.4	648.8
				112.17				650.1

2 月 1 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	11	44	14.92		+ 6	53	25.3	
1		46	6.95	112.03		42	33.8	−651.5
2		47	58.85	111.90		31	40.9	652.9
3		49	50.62	111.77		20	46.8	654.1
4		51	42.27	111.65	6	9	51.5	655.3
5		53	33.79	111.52	5	58	55.0	656.5
				111.40				657.7
6	11	55	25.19		+ 5	47	57.3	
7		57	16.48	111.29		36	58.5	−658.8
8	11	59	7.65	111.17		25	58.7	659.8
9	12	0	58.71	111.06		14	57.8	660.9
10		2	49.67	110.96	5	3	56.0	661.8
11		4	40.52	110.85	4	52	53.2	662.8
				110.75				663.7
12	12	6	31.27		+ 4	41	49.5	
13		8	21.93	110.66		30	44.9	−664.6
14		10	12.48	110.55		19	39.5	665.4
15		12	2.94	110.46	4	8	33.3	666.2
16		13	53.32	110.38	3	57	26.4	666.9
17		15	43.62	110.30		46	18.7	667.7
				110.21				668.3
18	12	17	33.83		+ 3	35	10.4	
19		19	23.97	110.14		24	1.4	−669.0
20		21	14.03	110.06		12	51.9	669.5
21		23	4.02	109.99	3	1	41.8	670.1
22		24	53.94	109.92	2	50	31.2	670.6
23		26	43.80	109.86		39	20.1	671.1
				109.79				671.6

2 月 2 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	12	28	33.59		+ 2	28	8.5	
1		30	23.33	109.74		16	56.5	−672.0
2		32	13.01	109.68	2	5	44.2	672.3
3		34	2.65	109.64	1	54	31.5	672.7
4		35	52.24	109.59		43	18.5	673.0
5		37	41.78	109.54		32	5.2	673.3
				109.50				673.4
6	12	39	31.28		+ 1	20	51.8	
7		41	20.76	109.48	1	9	38.1	−673.7
8		43	10.19	109.43	0	58	24.3	673.8
9		44	59.59	109.40		47	10.3	674.0
10		46	48.96	109.37		35	56.3	674.0
11		48	38.31	109.35		24	42.2	674.1
12	12	50	27.64	109.33	+ 0	13	28.2	−674.0

2 月 2 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	12	50	27.64		+ 0	13	28.2	
13		52	16.96	109.32	+ 0	2	14.2	−674.0
14		54	6.26	109.30	− 0	8	59.8	674.0
15		55	55.55	109.29		20	13.7	673.9
16		57	44.84	109.29		31	27.5	673.8
17	12	59	34.13	109.29		42	41.2	673.7
				109.28				673.4
18	13	1	23.41		− 0	53	54.6	
19		3	12.70	109.29	1	5	7.7	−673.1
20		5	1.99	109.29		16	20.6	672.9
21		6	51.30	109.31		27	33.2	672.6
22		8	40.63	109.33		38	45.4	672.2
23		10	29.98	109.35	1	49	57.3	671.9
				109.37				671.4

2 月 3 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	13	12	19.35		− 2	1	8.7	
1		14	8.75	109.40		12	19.7	−671.0
2		15	58.17	109.42		23	30.2	670.5
3		17	47.62	109.45		34	40.2	670.0
4		19	37.11	109.49		45	49.6	669.4
5		21	26.65	109.54	2	56	58.5	668.9
				109.57				668.2
6	13	23	16.22		− 3	8	6.7	
7		25	5.84	109.62		19	14.3	−667.6
8		26	55.51	109.67		30	21.2	666.9
9		28	45.24	109.73		41	27.3	666.1
10		30	35.03	109.79	3	52	32.6	665.3
11		32	24.88	109.85	4	3	37.2	664.6
				109.91				663.7
12	13	34	14.79		− 4	14	40.9	
13		36	4.77	109.98		25	43.7	−662.8
14		37	54.82	110.05		36	45.7	662.0
15		39	44.95	110.13		47	46.8	661.1
16		41	35.15	110.20	4	58	46.8	660.0
17		43	25.44	110.29	5	9	45.8	659.0
				110.37				658.0
18	13	45	15.81		− 5	20	43.8	
19		47	6.27	110.46		31	40.7	−656.9
20		48	56.83	110.56		42	36.4	655.7
21		50	47.49	110.66	5	53	31.0	654.6
22		52	38.25	110.76	6	4	24.4	653.4
23		54	29.11	110.86		15	16.5	652.1
				110.97				650.9

2 月 4 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	13	56	20.08		− 6	26	7.4	
1	13	58	11.15	111.07		36	57.0	−649.6
2	14	0	2.34	111.19		47	45.2	648.2
3		1	53.65	111.31	6	58	32.1	646.9
4		3	45.08	111.43	7	9	17.6	645.5
5		5	36.64	111.56		20	1.6	644.0
				111.68				642.5
6	14	7	28.32		− 7	30	44.1	
7		9	20.14	111.82		41	25.1	−641.0
8		11	12.09	111.95	7	52	4.4	639.3
9		13	4.18	112.09	8	2	42.2	637.8
10		14	56.42	112.24		13	18.4	636.2
11		16	48.81	112.39		23	52.9	634.5
				112.53				632.8
12	14	18	41.34		− 8	34	25.7	
13		20	34.02	112.68		44	56.7	−631.0
14		22	26.86	112.84	8	55	25.8	629.1
15		24	19.87	113.01	9	5	53.2	627.4
16		26	13.03	113.16		16	18.7	625.5
17		28	6.36	113.33		26	42.3	623.6
				113.51				621.6
18	14	29	59.87		− 9	37	3.9	
19		31	53.55	113.68		47	23.5	−619.6
20		33	47.41	113.86	9	57	41.1	617.6
21		35	41.45	114.04	10	7	56.6	615.5
22		37	35.67	114.22		18	10.0	613.4
23		39	30.07	114.40		28	21.2	611.2
24	14	41	24.67	114.60	−10	38	30.1	−608.9

2月5日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	14	41	24.67	114.79	−10	38	30.1	−606.7
1		43	19.46	114.99		48	36.8	604.5
2		45	14.45	115.19		58	41.3	602.1
3		47	9.64	115.39	11	8	43.4	599.7
4		49	5.03	115.60		18	43.1	597.3
5		51	0.63	115.81		28	40.4	594.9
6	14	52	56.44	116.03	−11	38	35.3	−592.4
7		54	52.47	116.24		48	27.7	589.8
8		56	48.71	116.47		58	17.5	587.2
9	14	58	45.18	116.68	12	8	4.7	584.5
10	15	0	41.86	116.91		17	49.2	581.9
11		2	38.77	117.15		27	31.1	579.2
12	15	4	35.92	117.38	−12	37	10.3	−576.4
13		6	33.30	117.61		46	46.7	573.6
14		8	30.91	117.85	12	56	20.3	570.7
15		10	28.76	118.09	13	5	51.0	567.8
16		12	26.85	118.33		15	18.8	564.8
17		14	25.18	118.58		24	43.6	561.8
18	15	16	23.76	118.83	−13	34	5.4	−558.7
19		18	22.59	119.09		43	24.1	555.6
20		20	21.68	119.35	13	52	39.7	552.5
21		22	21.03	119.60	14	1	52.2	549.3
22		24	20.63	119.87		11	1.5	546.0
23		26	20.50	120.13		20	7.5	542.7

2月6日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	15	28	20.63	120.40	−14	29	10.2	−539.4
1		30	21.03	120.67		38	9.6	536.0
2		32	21.70	120.95		47	5.6	532.5
3		34	22.65	121.22	14	55	58.1	529.0
4		36	23.87	121.50	15	4	47.1	525.4
5		38	25.37	121.77		13	32.5	521.9
6	15	40	27.14	122.07	−15	22	14.4	−518.2
7		42	29.21	122.34		30	52.6	514.4
8		44	31.55	122.63		39	27.0	510.7
9		46	34.18	122.93		47	57.7	506.9
10		48	37.11	123.22	15	56	24.6	503.1
11		50	40.33	123.51	16	4	47.7	499.1
12	15	52	43.84	123.81	−16	13	6.8	−495.1
13		54	47.65	124.11		21	21.9	491.1
14		56	51.76	124.41		29	33.0	487.0
15	15	58	56.17	124.71		37	40.0	482.8
16	16	1	0.88	125.02		45	42.8	478.6
17		3	5.90	125.32	16	53	41.4	474.4
18	16	5	11.22	125.63	−17	1	35.8	−470.1
19		7	16.85	125.94		9	25.9	465.7
20		9	22.79	126.25		17	11.6	461.3
21		11	29.04	126.57		24	52.9	456.8
22		13	35.61	126.89		32	29.7	452.3
23		15	42.50	127.20		40	2.0	447.7

2月7日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	16	17	49.70	127.52	−17	47	29.7	−443.0
1		19	57.22	127.84		54	52.7	438.3
2		22	5.06	128.17	18	2	11.0	433.5
3		24	13.23	128.48		9	24.5	428.7
4		26	21.71	128.81		16	33.2	423.8
5		28	30.52	129.13		23	37.0	418.9
6	16	30	39.65	129.46	−18	30	35.9	−413.9
7		32	49.11	129.78		37	29.8	408.8
8		34	58.89	130.11		44	18.6	403.7
9		37	9.00	130.44		51	2.3	398.5
10		39	19.44	130.77	18	57	40.8	393.2
11		41	30.21	131.11	19	4	14.0	−387.9
12	16	43	41.32		−19	10	41.9	

2月7日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	16	43	41.32	131.43	−19	10	41.9	−382.5
13		45	52.75	131.76		17	4.4	377.1
14		48	4.51	132.09		23	21.5	371.6
15		50	16.60	132.43		29	33.1	366.1
16		52	29.03	132.75		35	39.2	360.4
17		54	41.78	133.09		41	39.6	354.8
18	16	56	54.87	133.41	−19	47	34.4	−349.1
19	16	59	8.28	133.75		53	23.5	343.2
20	17	1	22.03	134.07	19	59	6.7	337.4
21		3	36.10	134.41	20	4	44.1	331.4
22		5	50.51	134.74		10	15.5	325.5
23		8	5.25	135.07		15	41.0	319.4

2月8日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	17	10	20.32	135.40	−20	21	0.4	−313.3
1		12	35.72	135.72		26	13.7	307.2
2		14	51.44	136.06		31	20.9	300.9
3		17	7.50	136.38		36	21.8	294.7
4		19	23.88	136.71		41	16.5	288.4
5		21	40.59	137.02		46	4.9	281.9
6	17	23	57.61	137.35	−20	50	46.8	−275.5
7		26	14.96	137.67		55	22.3	268.9
8		28	32.63	137.99	20	59	51.2	262.3
9		30	50.62	138.31	21	4	13.5	255.7
10		33	8.93	138.63		8	29.2	249.0
11		35	27.56	138.94		12	38.2	242.1
12	17	37	46.50	139.25	−21	16	40.3	−235.4
13		40	5.75	139.57		20	35.7	228.5
14		42	25.32	139.88		24	24.2	221.6
15		44	45.20	140.18		28	5.8	214.6
16		47	5.38	140.49		31	40.4	207.5
17		49	25.87	140.79		35	7.9	200.4
18	17	51	46.66	141.08	−21	38	28.3	−193.2
19		54	7.74	141.38		41	41.5	186.0
20		56	29.12	141.68		44	47.5	178.7
21	17	58	50.80	141.97		47	46.2	171.4
22	18	1	12.77	142.26		50	37.6	164.0
23		3	35.03	142.54		53	21.6	156.6

2月9日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	18	5	57.57	142.83	−21	55	58.2	−149.1
1		8	20.40	143.10		58	27.3	141.5
2		10	43.50	143.37	22	0	48.8	133.9
3		13	6.87	143.65		3	2.7	126.3
4		15	30.52	143.92		5	9.0	118.6
5		17	54.44	144.18		7	7.6	110.8
6	18	20	18.62	144.44	−22	8	58.4	−103.0
7		22	43.06	144.70		10	41.4	95.2
8		25	7.76	144.95		12	16.6	87.3
9		27	32.71	145.20		13	43.9	79.3
10		29	57.91	145.44		15	3.2	71.4
11		32	23.35	145.68		16	14.6	63.3
12	18	34	49.03	145.91	−22	17	17.9	−55.3
13		37	14.94	146.15		18	13.2	47.1
14		39	41.09	146.38		19	0.3	39.0
15		42	7.47	146.59		19	39.3	30.8
16		44	34.06	146.81		20	10.1	22.6
17		47	0.87	147.02		20	32.7	14.4
18	18	49	27.89	147.23	−22	20	47.1	−6.1
19		51	55.12	147.43		20	53.2	2.3
20		54	22.55	147.62		20	50.9	10.7
21		56	50.17	147.82		20	40.2	19.0
22	18	59	17.99	148.00		20	21.2	27.5
23	19	1	45.99	148.18		19	53.7	36.0
24	19	4	14.17		−22	19	17.7	

2月10日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	19	4	14.17	148.36	−22	19	17.7	+44.5
1		6	42.53	148.53		18	33.2	53.0
2		9	11.06	148.69		17	40.2	61.5
3		11	39.75	148.86		16	38.7	70.1
4		14	8.61	149.01		15	28.6	78.7
5		16	37.62	149.15		14	9.9	87.3
6	19	19	6.77	149.29	−22	12	42.6	+96.0
7		21	36.06	149.43		11	6.6	104.6
8		24	5.49	149.57		9	22.0	113.3
9		26	35.06	149.69		7	28.7	121.9
10		29	4.75	149.81		5	26.8	130.6
11		31	34.56	149.92		3	16.2	139.4
12	19	34	4.48	150.03	−22	0	56.8	+148.1
13		36	34.51	150.13	21	58	28.7	156.8
14		39	4.64	150.23		55	51.9	165.6
15		41	34.87	150.32		53	6.3	174.4
16		44	5.19	150.40		50	11.9	183.1
17		46	35.59	150.47		47	8.8	191.8
18	19	49	6.06	150.55	−21	43	57.0	+200.6
19		51	36.61	150.61		40	36.4	209.3
20		54	7.22	150.67		37	7.1	218.1
21		56	37.89	150.73		33	29.0	226.9
22	19	59	8.62	150.78		29	42.1	235.6
23	20	1	39.40	150.82		25	46.5	244.3

2月11日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	20	4	10.22	150.86	−21	21	42.2	+253.1
1		6	41.08	150.89		17	29.1	261.8
2		9	11.97	150.91		13	7.3	270.5
3		11	42.88	150.93		8	36.8	279.2
4		14	13.81	150.95	21	3	57.6	287.9
5		16	44.76	150.95	20	59	9.7	296.5
6	20	19	15.71	150.95	−20	54	13.2	+305.2
7		21	46.66	150.95		49	8.0	313.7
8		24	17.61	150.94		43	54.3	322.4
9		26	48.55	150.92		38	31.9	330.9
10		29	19.47	150.90		33	1.0	339.5
11		31	50.37	150.88		27	21.5	348.0
12	20	34	21.25	150.85	−20	21	33.5	+356.5
13		36	52.10	150.80		15	37.0	365.0
14		39	22.90	150.77		9	32.0	373.4
15		41	53.67	150.72	20	3	18.6	381.7
16		44	24.39	150.67	19	56	56.9	390.1
17		46	55.06	150.61		50	26.8	398.4
18	20	49	25.67	150.55	−19	43	48.4	+406.7
19		51	56.22	150.48		37	1.7	414.9
20		54	26.70	150.41		30	6.8	423.1
21		56	57.11	150.34		23	3.7	431.3
22	20	59	27.45	150.25		15	52.4	439.4
23	21	1	57.70	150.17		8	33.0	447.4

2月12日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	21	4	27.87	150.08	−19	1	5.6	+455.4
1		6	57.95	149.98		18	53	30.2	463.4
2		9	27.93	149.89		45	46.8	471.3
3		11	57.82	149.78		37	55.5	479.1
4		14	27.60	149.68		29	56.4	486.9
5		16	57.28	149.56		21	49.5	494.7
6	21	19	26.84	149.45	−18	13	34.8	+502.3
7		21	56.29	149.33		18	5	12.5	509.8
8		24	25.62	149.21	17	56	42.7	517.4
9		26	54.83	149.09		48	5.3	525.0
10		29	23.92	148.96		39	20.3	532.4
11		31	52.88	148.82		30	27.9	539.8
12	21	34	21.70		−17	21	28.1	

2月12日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	21	34	21.70	148.69	−17	21	28.1	+547.1
13		36	50.39	148.55		12	21.0	554.3
14		39	18.94	148.41	17	3	6.7	561.4
15		41	47.35	148.26	16	53	45.3	568.4
16		44	15.61	148.12		44	16.9	575.5
17		46	43.73	147.97		34	41.4	582.5
18	21	49	11.70	147.81	−16	24	58.9	+589.3
19		51	39.51	147.66		15	9.6	596.1
20		54	7.17	147.50	16	5	13.5	602.8
21		56	34.67	147.34	15	55	10.7	609.4
22	21	59	2.01	147.18		45	1.3	616.0
23	22	1	29.19	147.02		34	45.3	622.4

2月13日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	22	3	56.21	146.85	−15	24	22.9	+628.8
1		6	23.06	146.69		13	54.1	635.2
2		8	49.75	146.52	15	3	18.9	641.4
3		11	16.27	146.34	14	52	37.5	647.5
4		13	42.61	146.18		41	50.0	653.6
5		16	8.79	146.00		30	56.4	659.5
6	22	18	34.79	145.83	−14	19	56.9	+665.4
7		21	0.62	145.65		14	8	51.5	671.3
8		23	26.27	145.48	13	57	40.2	677.0
9		25	51.75	145.30		46	23.2	682.5
10		28	17.05	145.12		35	0.7	688.1
11		30	42.17	144.94		23	32.6	693.5
12	22	33	7.11	144.77	−13	11	59.1	+698.9
13		35	31.88	144.58	13	0	20.2	704.1
14		37	56.46	144.41	12	48	36.1	709.3
15		40	20.87	144.22		36	46.8	714.4
16		42	45.09	144.05		24	52.4	719.4
17		45	9.14	143.86		12	53.0	724.3
18	22	47	33.00	143.69	−12	0	48.7	+729.0
19		49	56.69	143.50	11	48	39.7	733.7
20		52	20.19	143.33		36	26.0	738.3
21		54	43.52	143.14		24	7.7	742.9
22		57	6.66	142.97	11	11	44.8	747.3
23	22	59	29.63	142.78	10	59	17.5	751.5

2月14日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	23	1	52.41	142.61	−10	46	46.0	+755.7
1		4	15.02	142.43		34	10.3	759.8
2		6	37.45	142.26		21	30.5	763.9
3		8	59.71	142.08	10	8	46.6	767.8
4		11	21.79	141.91	9	55	58.8	771.6
5		13	43.70	141.73		43	7.2	775.3
6	23	16	5.43	141.56	− 9	30	11.9	+778.9
7		18	26.99	141.39		17	13.0	782.4
8		20	48.38	141.22	9	4	10.6	785.9
9		23	9.60	141.05	8	51	4.7	789.2
10		25	30.65	140.89		37	55.5	792.4
11		27	51.54	140.72		24	43.1	795.5
12	23	30	12.26	140.56	− 8	11	27.6	+798.5
13		32	32.82	140.39	7	58	9.1	801.4
14		34	53.21	140.24		44	47.7	804.3
15		37	13.45	140.07		31	23.4	807.0
16		39	33.52	139.92		17	56.4	809.6
17		41	53.44	139.76	7	4	26.8	812.1
18	23	44	13.20	139.61	− 6	50	54.7	+814.6
19		46	32.81	139.46		37	20.1	816.8
20		48	52.27	139.31		23	43.3	819.1
21		51	11.58	139.17	6	10	4.2	821.2
22		53	30.75	139.02	5	56	23.0	823.2
23		55	49.77	138.87		42	39.8	825.1
24	23	58	8.64		− 5	28	54.7	

2 月 15 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	23	58	8.64	138.74	− 5	28	54.7	+826.9
1	0	0	27.38	138.60		15	7.8	828.6
2		2	45.98	138.46	5	1	19.2	830.3
3		5	4.44	138.33	4	47	28.9	831.8
4		7	22.77	138.20		33	37.1	833.2
5		9	40.97	138.07		19	43.9	834.5
6	0	11	59.04		−	4	5	49.4	+835.8
7		14	16.99	137.95	3	51	53.6	836.9
8		16	34.82	137.83		37	56.7	837.9
9		18	52.52	137.70		23	58.8	838.8
10		21	10.10	137.58	3	10	0.0	839.6
11		23	27.57	137.47	2	56	0.4	840.4
12	0	25	44.93	137.36	−	2	42	0.0	+841.0
13		28	2.17	137.24		27	59.0	841.6
14		30	19.31	137.14	2	13	57.4	842.0
15		32	36.35	137.04	1	59	55.4	842.4
16		34	53.29	136.94		45	53.0	842.6
17		37	10.13	136.84		31	50.4	842.8
18	0	39	26.87	136.74	−	1	17	47.6	+842.8
19		41	43.52	136.65		1	3	44.8	842.8
20		44	0.09	136.57		0	49	42.0	842.7
21		46	16.57	136.48			35	39.3	842.5
22		48	32.96	136.39			21	36.8	842.2
23		50	49.27	136.31	−	0	7	34.6	841.7
				136.23					

2 月 16 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	0	53	5.50		+	0	6	27.1	
1		55	21.66	136.16			20	28.3	+841.2
2		57	37.75	136.09			34	29.0	840.7
3	0	59	53.77	136.02		0	48	29.0	840.0
4	1	2	9.72	135.95		1	2	28.2	839.2
5		4	25.61	135.89			16	26.5	838.3
				135.83					837.3
6	1	6	41.44	135.77	+	1	30	23.8	+836.3
7		8	57.21	135.72			44	20.1	835.2
8		11	12.93	135.67		1	58	15.3	834.0
9		13	28.60	135.62		2	12	9.3	832.7
10		15	44.22	135.58			26	2.0	831.3
11		17	59.80	135.53			39	53.3	829.8
12	1	20	15.33		+	2	53	43.1	+828.2
13		22	30.83	135.50		3	7	31.3	826.6
14		24	46.29	135.46			21	17.9	824.8
15		27	1.72	135.43			35	2.7	823.0
16		29	17.12	135.40		3	48	45.7	821.1
17		31	32.49	135.37		4	2	26.8	819.1
				135.35					
18	1	33	47.84	135.33	+	4	16	5.9	+817.0
19		36	3.17	135.31			29	42.9	814.8
20		38	18.48	135.30			43	17.7	812.6
21		40	33.78	135.28		4	56	50.3	810.2
22		42	49.06	135.28		5	10	20.5	807.9
23		45	4.34	135.27			23	48.4	805.4

2 月 17 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	1	47	19.61		+	5	37	13.8	
1		49	34.88	135.27		5	50	36.6	+802.8
2		51	50.14	135.26		6	3	56.8	800.2
3		54	5.40	135.26			17	14.2	797.4
4		56	20.67	135.27			30	28.8	794.6
5	1	58	35.95	135.28			43	40.5	791.7
				135.29					788.7
6	2	0	51.24		+	6	56	49.2	
7		3	6.54	135.30		7	9	54.9	+785.7
8		5	21.86	135.32			22	57.4	782.5
9		7	37.20	135.34			35	56.8	779.4
10		9	52.55	135.35		7	48	52.9	776.1
11		12	7.93	135.38		8	1	45.7	772.8
12	2	14	23.33	135.40	+	8	14	35.0	+769.3

2 月 17 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	2	14	23.33	135.43	+	8	14	35.0	
13		16	38.76	135.46			27	20.8	+765.8
14		18	54.22	135.50			40	3.1	762.3
15		21	9.72	135.53		8	52	41.7	758.6
16		23	25.25	135.57		9	5	16.6	754.9
17		25	40.82	135.61			17	47.7	751.1
									747.2
18	2	27	56.43		+	9	30	14.9	
19		30	12.08	135.65			42	38.2	+743.3
20		32	27.78	135.70		9	54	57.5	739.3
21		34	43.53	135.75		10	7	12.8	735.3
22		36	59.32	135.79			19	23.9	731.1
23		39	15.16	135.84			31	30.8	726.9
				135.89					722.6

2 月 18 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	2	41	31.05		+10	43	33.4	
1		43	47.00	135.95	10	55	31.7	+718.3
2		46	3.01	136.01	11	7	25.6	713.9
3		48	19.08	136.07		19	15.0	709.4
4		50	35.20	136.12		30	59.9	704.9
5		52	51.39	136.19		42	40.1	700.2
				136.25					695.6
6	2	55	7.64		+11	54	15.7	
7		57	23.95	136.31	12	5	46.6	+690.9
8	2	59	40.33	136.38		17	12.7	686.1
9	3	1	56.77	136.44		28	33.9	681.2
10		4	13.29	136.52		39	50.1	676.2
11		6	29.88	136.59	12	51	1.4	671.3
				136.67					666.2
12	3	8	46.55		+13	2	7.6	
13		11	3.29	136.74		13	8.7	+661.1
14		13	20.10	136.81		24	4.7	656.0
15		15	36.99	136.89		34	55.4	650.7
16		17	53.95	136.96		45	40.9	645.5
17		20	11.00	137.05	13	56	21.0	640.1
				137.12					634.7
18	3	22	28.12		+14	6	55.7	
19		24	45.33	137.21		17	24.9	+629.2
20		27	2.61	137.28		27	48.6	623.7
21		29	19.97	137.36		38	6.8	618.2
22		31	37.41	137.44		48	19.4	612.6
23		33	54.94	137.53					
				137.61	14	58	26.2	606.8
									601.1

2 月 19 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	3	36	12.55		+15	8	27.3	
1		38	30.25	137.70		18	22.6	+595.3
2		40	48.03	137.78		28	12.1	589.5
3		43	5.90	137.87		37	55.7	583.6
4		45	23.85	137.95		47	33.4	577.7
5		47	41.88	138.03	15	57	5.1	571.7
				138.12					565.7
6	3	50	0.00		+16	6	30.8	
7		52	18.21	138.21		15	50.4	+559.6
8		54	36.50	138.29		25	3.8	553.4
9		56	54.87	138.37		34	11.1	547.3
10	3	59	13.33	138.46		43	12.2	541.1
11	4	1	31.88	138.55	16	52	6.9	534.7
				138.63					528.4
12	4	3	50.51		+17	0	55.3	
13		6	9.22	138.71		9	37.3	+522.0
14		8	28.02	138.80		18	12.9	515.6
15		10	46.90	138.88		26	42.0	509.1
16		13	5.86	138.96		35	4.7	502.7
17		15	24.90	139.04		43	20.9	496.2
				139.12					489.6
18	4	17	44.02		+17	51	30.5	
19		20	3.23	139.21		17	59	33.4	+482.9
20		22	22.51	139.28		18	7	29.6	476.2
21		24	41.88	139.37			15	19.2	469.6
22		27	1.32	139.44			23	2.0	462.8
23		29	20.84	139.52			30	38.0	456.0
24	4	31	40.43	139.59	+18	38	7.1	+449.1

2 月 20 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	4	31	40.43	139.66	+18	38	7.1	
1		34	0.09	139.74		45	29.4	+442.3
2		36	19.83	139.80		52	44.8	435.4
3		38	39.63	139.88	18	59	53.3	428.5
4		40	59.51	139.95	19	6	54.8	421.5
5		43	19.46	140.01		13	49.4	414.6
									407.5
6	4	45	39.47		+19	20	36.9	
7		47	59.55	140.08		27	17.4	+400.5
8		50	19.68	140.13		33	50.7	393.3
9		52	39.88	140.20		40	16.9	386.2
10		55	0.13	140.25		46	36.0	379.1
11		57	20.44	140.31		52	47.9	371.9
				140.37					364.7
12	4	59	40.81		+19	58	52.6	
13	5	2	1.23	140.42	20	4	50.1	+357.5
14		4	21.70	140.47		10	40.3	350.2
15		6	42.22	140.52		16	23.3	343.0
16		9	2.78	140.56		21	58.9	335.6
17		11	23.39	140.61		27	27.2	328.3
				140.65					320.9
18	5	13	44.04		+20	32	48.1	
19		16	4.72	140.68		38	1.6	+313.5
20		18	25.44	140.72		43	7.7	306.1
21		20	46.19	140.75		48	6.4	298.7
22		23	6.97	140.78		52	57.7	291.3
23		25	27.78	140.81					
				140.84	20	57	41.5	283.8
									276.4

2 月 21 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	5	27	48.62		+21	2	17.9	
1		30	9.48	140.86		6	46.8	+268.9
2		32	30.35	140.87		11	8.2	261.4
3		34	51.24	140.89		15	22.0	253.8
4		37	12.14	140.90		19	28.2	246.2
5		39	33.06	140.92		23	26.9	238.7
				140.92					231.2
6	5	41	53.98		+21	27	18.1	
7		44	14.90	140.92		31	1.7	+223.6
8		46	35.82	140.92		34	37.7	216.0
9		48	56.74	140.92		38	6.2	208.5
10		51	17.65	140.91		41	27.0	200.8
11		53	38.56	140.91		44	40.2	193.2
				140.89					185.5
12	5	55	59.45		+21	47	45.7	
13	5	58	20.33	140.88		50	43.7	+178.0
14	6	0	41.18	140.85		53	34.0	170.3
15		3	2.01	140.83		56	16.7	162.7
16		5	22.82	140.81	21	58	51.7	155.0
17		7	43.60	140.78	22	1	19.1	147.4
				140.74					139.8
18	6	10	4.34		+22	3	38.9	
19		12	25.04	140.70		5	51.1	+132.2
20		14	45.70	140.66		7	55.6	124.5
21		17	6.32	140.62		9	52.5	116.9
22		19	26.89	140.57		11	41.7	109.2
23		21	47.41	140.52		13	23.3	101.6
				140.45					94.0

2 月 22 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	6	24	7.86		+22	14	57.3	
1		26	28.26	140.40		16	23.7	+ 86.4
2		28	48.60	140.34		17	42.5	78.8
3		31	8.88	140.28		18	53.6	71.1
4		33	29.08	140.20		19	57.1	63.5
5		35	49.21	140.13		20	53.1	56.0
				140.05					48.4
6	6	38	9.26		+22	21	41.5	
7		40	29.23	139.97		22	22.3	+ 40.8
8		42	49.12	139.89		22	55.5	33.2
9		45	8.92	139.80		23	21.2	25.7
10		47	28.62	139.70		23	39.4	18.2
11		49	48.23	139.61		23	50.1	10.7
12	6	52	7.74	139.51	+22	23	53.2	+ 3.1

2 月 22 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	6	52	7.74	139.41	+22	23	53.2	
13		54	27.15	139.30		23	48.8	− 4.4
14		56	46.45	139.19		23	37.0	11.8
15	6	59	5.64	139.08		23	17.7	19.3
16	7	1	24.72	138.96		22	51.0	26.7
17		3	43.68	138.84		22	16.8	34.2
									41.5
18	7	6	2.52	138.72	+22	21	35.3	
19		8	21.24	138.58		20	46.5	− 48.8
20		10	39.82	138.45		19	50.3	56.2
21		12	58.27	138.32		18	46.8	63.5
22		15	16.59	138.18		17	35.9	70.9
23		17	34.77	138.04		16	17.7	78.2
									85.4

2 月 23 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	7	19	52.81		+22	14	52.3	
1		22	10.70	137.89		13	19.7	− 92.6
2		24	28.45	137.75		11	39.9	99.8
3		26	46.05	137.60		9	52.9	107.0
4		29	3.49	137.44		7	58.7	114.2
5		31	20.78	137.29		5	57.4	121.3
				137.12					128.3
6	7	33	37.90		+22	3	49.1	
7		35	54.85	136.96		22	1	33.7	− 135.4
8		38	11.65	136.79		21	59	11.3	142.4
9		40	28.27	136.62			56	41.8	149.5
10		42	44.72	136.45			54	5.4	156.4
11		45	0.99	136.27			51	22.1	163.3
				136.09					170.2
12	7	47	17.08		+21	48	31.9	
13		49	32.99	135.91		45	34.8	− 177.1
14		51	48.72	135.73		42	30.9	183.9
15		54	4.26	135.54		39	20.2	190.7
16		56	19.61	135.35		36	2.7	197.5
17	7	58	34.77	135.16		32	38.5	204.2
				134.97					210.8
18	8	0	49.74		+21	29	7.7	
19		3	4.51	134.77		25	30.2	− 217.5
20		5	19.08	134.57		21	46.1	224.1
21		7	33.45	134.37		17	55.4	230.7
22		9	47.61	134.16		13	58.2	237.2
23		12	1.57	133.96		9	54.5	243.7
				133.75					250.1

2 月 24 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	8	14	15.32		+21	5	44.4	
1		16	28.83	133.54		1	27.9	− 256.5
2		18	42.18	133.32		20	57	5.0	262.9
3		20	55.29	133.11			52	35.8	269.2
4		23	8.19	132.90			48	0.4	275.4
5		25	20.87	132.68			43	18.7	281.7
				132.46					287.9
6	8	27	33.33		+20	38	30.8	
7		29	45.57	132.24			33	36.7	− 294.1
8		31	57.58	132.01			28	36.6	300.1
9		34	9.37	131.79			23	30.5	306.1
10		36	20.94	131.57			18	18.3	312.2
11		38	32.27	131.33			13	0.1	318.2
				131.11					324.1
12	8	40	43.38		+20	7	36.0	
13		42	54.26	130.88		20	2	6.0	− 330.0
14		45	4.91	130.65		19	56	30.3	335.7
15		47	15.32	130.41			50	48.8	341.5
16		49	25.50	130.18			45	1.5	347.3
17		51	35.45	129.95			39	8.5	353.0
				129.71					358.7
18	8	53	45.16	129.47	+19	33	9.8	
19		55	54.63	129.23			27	5.6	− 364.2
20	8	58	3.86	129.00			20	55.9	369.7
21	9	0	12.86	128.75			14	40.7	375.2
22		2	21.61	128.52			8	20.0	380.7
23		4	30.13	128.28		19	1	53.9	386.1
24	9	6	38.41		+18	55	22.4	− 391.5

2月25日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	9	6	38.41	128.04	+18	55	22.4	−396.7
1		8	46.45	127.80		48	45.7	401.9
2		10	54.25	127.56		42	3.8	407.1
3		13	1.81	127.31		35	16.7	412.3
4		15	9.12	127.07		28	24.4	417.4
5		17	16.19	126.83		21	27.0	422.3
6	9	19	23.02	126.59	+18	14	24.7	−427.4
7		21	29.61	126.34		7	17.3	432.4
8		23	35.95	126.10	18	0	4.9	437.3
9		25	42.05	125.85	17	52	47.6	442.0
10		27	47.90	125.62		45	25.6	446.8
11		29	53.52	125.37		37	58.8	451.6
12	9	31	58.89	125.14	+17	30	27.2	−456.3
13		34	4.03	124.89		22	50.9	460.9
14		36	8.92	124.65		15	10.0	465.5
15		38	13.57	124.41	17	7	24.5	470.0
16		40	17.98	124.17	16	59	34.5	474.5
17		42	22.15	123.93		51	40.0	479.0
18	9	44	26.08	123.70	+16	43	41.0	−483.3
19		46	29.78	123.45		35	37.7	487.6
20		48	33.23	123.22		27	30.1	491.9
21		50	36.45	122.98		19	18.2	496.1
22		52	39.43	122.74		11	2.1	500.3
23		54	42.17	122.50	16	2	41.8	504.5

2月26日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	9	56	44.67	122.27	+15	54	17.3	−508.5
1	9	58	46.94	122.04		45	48.8	512.5
2	10	0	48.98	121.81		37	16.3	516.5
3		2	50.79	121.58		28	39.8	520.4
4		4	52.37	121.34		19	59.4	524.3
5		6	53.71	121.12		11	15.1	528.0
6	10	8	54.83	120.89	+15	2	27.1	−531.8
7		10	55.72	120.67	14	53	35.3	535.5
8		12	56.39	120.44		44	39.8	539.2
9		14	56.83	120.21		35	40.6	542.8
10		16	57.04	119.99		26	37.8	546.3
11		18	57.03	119.77		17	31.5	549.9
12	10	20	56.80	119.55	+14	8	21.6	−553.4
13		22	56.35	119.33	13	59	8.2	556.7
14		24	55.68	119.11		49	51.5	560.1
15		26	54.79	118.90		40	31.4	563.4
16		28	53.69	118.69		31	8.0	566.6
17		30	52.38	118.47		21	41.4	569.8
18	10	32	50.85	118.27	+13	12	11.6	−573.0
19		34	49.12	118.06	13	2	38.6	576.1
20		36	47.18	117.85	12	53	2.5	579.1
21		38	45.03	117.65		43	23.4	582.1
22		40	42.68	117.45		33	41.3	585.1
23		42	40.13	117.25		23	56.2	588.0

2月27日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	10	44	37.38	117.05	+12	14	8.2	−590.9
1		46	34.43	116.85	12	4	17.3	593.6
2		48	31.28	116.65	11	54	23.7	596.4
3		50	27.93	116.46		44	27.3	599.1
4		52	24.39	116.27		34	28.2	601.8
5		54	20.66	116.08		24	26.4	604.4
6	10	56	16.74	115.90	+11	14	22.0	−607.0
7	10	58	12.64	115.71	11	4	15.0	609.4
8	11	0	8.35	115.53	10	54	5.6	611.9
9		2	3.88	115.35		43	53.7	614.3
10		3	59.23	115.17		33	39.4	616.7
11		5	54.40	114.99		23	22.7	−619.0
12	11	7	49.39		+10	13	3.7	

2月27日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	11	7	49.39	114.82	+10	13	3.7	−621.3
13		9	44.21	114.65	10	2	42.4	623.6
14		11	38.86	114.48	9	52	18.8	625.7
15		13	33.34	114.32		41	53.1	627.9
16		15	27.66	114.15		31	25.2	630.0
17		17	21.81	113.99		20	55.2	631.9
18	11	19	15.80	113.84	+ 9	10	23.3	−634.0
19		21	9.64	113.68	8	59	49.3	635.9
20		23	3.32	113.52		49	13.4	637.8
21		24	56.84	113.36		38	35.6	639.7
22		26	50.20	113.22		27	55.9	641.5
23		28	43.42	113.07		17	14.4	643.3

2月28日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	11	30	36.49	112.93	+ 8	6	31.1	−645.0
1		32	29.42	112.79	7	55	46.1	646.7
2		34	22.21	112.65		44	59.4	648.3
3		36	14.86	112.51		34	11.1	649.8
4		38	7.37	112.38		23	21.3	651.4
5		39	59.75	112.25		12	29.9	653.0
6	11	41	52.00	112.12	+ 7	1	36.9	−654.4
7		43	44.12	112.00	6	50	42.5	655.8
8		45	36.12	111.88		39	46.7	657.1
9		47	28.00	111.75		28	49.6	658.5
10		49	19.75	111.64		17	51.1	659.8
11		51	11.39	111.52	6	6	51.3	661.0
12	11	53	2.91	111.42	+ 5	55	50.3	−662.2
13		54	54.33	111.30		44	48.1	663.3
14		56	45.63	111.19		33	44.8	664.5
15	11	58	36.82	111.09		22	40.3	665.5
16	12	0	27.91	110.99		11	34.8	666.6
17		2	18.90	110.90	5	0	28.2	667.5
18	12	4	9.80	110.80	+ 4	49	20.7	−668.4
19		6	0.60	110.70		38	12.3	669.4
20		7	51.30	110.61		27	2.9	670.3
21		9	41.91	110.53		15	52.6	671.0
22		11	32.44	110.45	4	4	41.6	671.8
23		13	22.89	110.37	3	53	29.8	672.5

3月1日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	12	15	13.26	110.30	+ 3	42	17.3	−673.2
1		17	3.56	110.21		31	4.1	673.9
2		18	53.77	110.14		19	50.2	674.5
3		20	43.91	110.07	3	8	35.7	675.0
4		22	33.98	110.01	2	57	20.7	675.6
5		24	23.99	109.95		46	5.1	676.0
6	12	26	13.94	109.89	+ 2	34	49.1	−676.5
7		28	3.83	109.83		23	32.6	676.9
8		29	53.66	109.77		12	15.7	677.3
9		31	43.43	109.72	2	0	58.4	677.6
10		33	33.15	109.67	1	49	40.8	677.9
11		35	22.82	109.63		38	22.9	678.2
12	12	37	12.45	109.59	+ 1	27	4.7	−678.4
13		39	2.04	109.55		15	46.3	678.5
14		40	51.59	109.51	1	4	27.8	678.7
15		42	41.10	109.48	0	53	9.1	678.7
16		44	30.58	109.45		41	50.4	678.8
17		46	20.03	109.42		30	31.6	678.8
18	12	48	9.45	109.40	+ 0	19	12.8	−678.8
19		49	58.85	109.38	+ 0	7	54.0	678.7
20		51	48.23	109.36	− 0	3	24.7	678.6
21		53	37.59	109.35		14	43.3	678.4
22		55	26.94	109.34		26	1.7	678.3
23		57	16.28	109.33		37	20.0	−678.1
24	12	59	5.61		− 0	48	38.1	

3月2日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	12	59	5.61	109.33	− 0	48	38.1	−677.8
1	13	0	54.94	109.32	0	59	55.9	677.5
2		2	44.26	109.33	1	11	13.4	677.2
3		4	33.59	109.32		22	30.6	676.8
4		6	22.91	109.33		33	47.4	676.4
5		8	12.24	109.34		45	3.8	675.9
6	13	10	1.58	109.36	− 1	56	19.7	−675.5
7		11	50.94	109.38	2	7	35.2	674.9
8		13	40.32	109.40		18	50.1	674.3
9		15	29.72	109.42		30	4.4	673.7
10		17	19.14	109.44		41	18.1	673.1
11		19	8.58	109.46	2	52	31.2	672.4
12	13	20	58.04	109.50	− 3	3	43.6	−671.7
13		22	47.54	109.54		14	55.3	671.0
14		24	37.08	109.58		26	6.3	670.2
15		26	26.66	109.61		37	16.5	669.3
16		28	16.27	109.66		48	25.8	668.5
17		30	5.93	109.70	3	59	34.3	667.6
18	13	31	55.63	109.76	− 4	10	41.9	−666.7
19		33	45.39	109.82		21	48.6	665.6
20		35	35.21	109.87		32	54.2	664.6
21		37	25.08	109.93		43	58.8	663.6
22		39	15.01	110.00	4	55	2.4	662.5
23		41	5.01	110.06	5	6	4.9	661.4

3月3日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	13	42	55.07	110.13	− 5	17	6.3	−660.2
1		44	45.20	110.21		28	6.5	659.0
2		46	35.41	110.28		39	5.5	657.7
3		48	25.69	110.36	5	50	3.2	656.5
4		50	16.05	110.45	6	0	59.7	655.2
5		52	6.50	110.52		11	54.9	653.7
6	13	53	57.02	110.61	− 6	22	48.6	−652.4
7		55	47.63	110.71		33	41.0	651.0
8		57	38.34	110.80		44	32.0	649.5
9	13	59	29.14	110.90	6	55	21.5	648.0
10	14	1	20.04	111.01	7	6	9.5	646.4
11		3	11.05	111.10		16	55.9	644.8
12	14	5	2.15	111.21	− 7	27	40.7	−643.2
13		6	53.36	111.32		38	23.9	641.6
14		8	44.68	111.44		49	5.5	639.9
15		10	36.12	111.55	7	59	45.4	638.1
16		12	27.67	111.67	8	10	23.5	636.3
17		14	19.34	111.79		20	59.8	634.5
18	14	16	11.13	111.91	− 8	31	34.3	−632.6
19		18	3.04	112.05		42	6.9	630.8
20		19	55.09	112.18	8	52	37.7	628.9
21		21	47.27	112.32	9	3	6.6	626.8
22		23	39.59	112.45		13	33.4	624.8
23		25	32.04	112.59		23	58.2	622.8

3月4日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	14	27	24.63	112.74	− 9	34	21.0	−620.7
1		29	17.37	112.88		44	41.7	618.5
2		31	10.25	113.03	9	55	0.2	616.4
3		33	3.28	113.18	10	5	16.6	614.2
4		34	56.46	113.34		15	30.8	611.9
5		36	49.80	113.50		25	42.7	609.6
6	14	38	43.30	113.66	−10	35	52.3	−607.3
7		40	36.96	113.82		45	59.6	604.9
8		42	30.78	113.99	10	56	4.5	602.5
9		44	24.77	114.17	11	6	7.0	600.0
10		46	18.94	114.34		16	7.0	597.5
11		48	13.28	114.51		26	4.5	594.9
12	14	50	7.79		−11	35	59.4	

3月4日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	14	50	7.79	114.69	−11	35	59.4	−592.4
13		52	2.48	114.87		45	51.8	589.8
14		53	57.35	115.06	11	55	41.6	587.1
15		55	52.41	115.25	12	5	28.7	584.4
16		57	47.66	115.44		15	13.1	581.7
17	14	59	43.10	115.63		24	54.8	578.9
18	15	1	38.73	115.83	−12	34	33.7	−576.0
19		3	34.56	116.02		44	9.7	573.1
20		5	30.58	116.23	12	53	42.8	570.2
21		7	26.81	116.43	13	3	13.0	567.3
22		9	23.24	116.64		12	40.3	564.2
23		11	19.88	116.84		22	4.5	561.2

3月5日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	15	13	16.72	117.06	−13	31	25.7	−558.1
1		15	13.78	117.27		40	43.8	555.0
2		17	11.05	117.50		49	58.8	551.8
3		19	8.55	117.71	13	59	10.6	548.6
4		21	6.26	117.94	14	8	19.2	545.2
5		23	4.20	118.15		17	24.4	541.9
6	15	25	2.35	118.38	−14	26	26.3	−538.5
7		27	0.73	118.62		35	24.8	535.2
8		28	59.35	118.85		44	20.0	531.8
9		30	58.20	119.08	14	53	11.8	528.3
10		32	57.28	119.32	15	2	0.1	524.6
11		34	56.60	119.56		10	44.7	521.0
12	15	36	56.16	119.80	−15	19	25.7	−517.4
13		38	55.96	120.04		28	3.1	513.7
14		40	56.00	120.29		36	36.8	510.0
15		42	56.29	120.55		45	6.8	506.3
16		44	56.84	120.79	15	53	33.1	502.4
17		46	57.63	121.05	16	1	55.5	498.5
18	15	48	58.68	121.30	−16	10	14.0	−494.6
19		50	59.98	121.55		18	28.6	490.6
20		53	1.53	121.82		26	39.2	486.6
21		55	3.35	122.08		34	45.8	482.5
22		57	5.43	122.34		42	48.3	478.4
23	15	59	7.77	122.60		50	46.7	474.2

3月6日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	16	1	10.37	122.87	−16	58	40.9	−470.0
1		3	13.24	123.14	17	6	30.9	465.7
2		5	16.38	123.41		14	16.6	461.4
3		7	19.79	123.68		21	58.0	457.1
4		9	23.47	123.95		29	35.1	452.7
5		11	27.42	124.23		37	7.8	448.2
6	16	13	31.65	124.51	−17	44	36.0	−443.7
7		15	36.16	124.79		51	59.7	439.0
8		17	40.95	125.06	17	59	18.7	434.5
9		19	46.01	125.34	18	6	33.2	429.8
10		21	51.35	125.63		13	43.0	425.1
11		23	56.98	125.91		20	48.1	420.3
12	16	26	2.89	126.19	−18	27	48.4	−415.5
13		28	9.08	126.48		34	43.9	410.6
14		30	15.56	126.76		41	34.5	405.7
15		32	22.32	127.05		48	20.2	400.7
16		34	29.37	127.35	18	55	0.9	395.6
17		36	36.72	127.63	19	1	36.5	390.6
18	16	38	44.35	127.92	−19	8	7.1	−385.5
19		40	52.27	128.21		14	32.6	380.3
20		43	0.48	128.51		20	52.9	375.0
21		45	8.99	128.80		27	7.9	369.7
22		47	17.79	129.09		33	17.6	364.3
23		49	26.88	129.39		39	21.9	358.9
24	16	51	36.27		−19	45	20.8	

3月7日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	16	51	36.27	129.68	−19	45	20.8	−353.5
1		53	45.95	129.98		51	14.3	348.0
2		55	55.93	130.27		57	2.3	342.4
3	16	58	6.20	130.57	20	2	44.7	336.9
4	17	0	16.77	130.86		8	21.6	331.2
5		2	27.63	131.15		13	52.8	325.4
6	17	4	38.78	131.45	−20	19	18.2	−319.6
7		6	50.23	131.75		24	37.8	313.8
8		9	1.98	132.04		29	51.6	308.0
9		11	14.02	132.34		34	59.6	302.0
10		13	26.36	132.63		40	1.6	296.1
11		15	38.99	132.93		44	57.7	290.0
12	17	17	51.92	133.22	−20	49	47.7	−283.9
13		20	5.14	133.51		54	31.6	277.8
14		22	18.65	133.80	20	59	9.4	271.6
15		24	32.45	134.10	21	3	41.0	265.3
16		26	46.55	134.39		8	6.3	259.0
17		29	0.94	134.68		12	25.3	252.6
18	17	31	15.62	134.97	−21	16	37.9	−246.2
19		33	30.59	135.25		20	44.1	239.8
20		35	45.84	135.54		24	43.9	233.3
21		38	1.38	135.83		28	37.2	226.7
22		40	17.21	136.11		32	23.9	220.1
23		42	33.32	136.40		36	4.0	213.5

3月8日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	17	44	49.72	136.68	−21	39	37.5	−206.8
1		47	6.40	136.96		43	4.3	199.9
2		49	23.36	137.24		46	24.2	193.1
3		51	40.60	137.51		49	37.3	186.3
4		53	58.11	137.79		52	43.6	179.4
5		56	15.90	138.06		55	43.0	172.4
6	17	58	33.96	138.33	−21	58	35.4	−165.4
7	18	0	52.29	138.60	22	1	20.8	158.3
8		3	10.89	138.86		3	59.1	151.2
9		5	29.75	139.13		6	30.3	144.0
10		7	48.88	139.40		8	54.3	136.8
11		10	8.28	139.65		11	11.1	129.6
12	18	12	27.93	139.91	−22	13	20.7	−122.3
13		14	47.84	140.17		15	23.0	114.9
14		17	8.01	140.42		17	17.9	107.5
15		19	28.43	140.66		19	5.4	100.1
16		21	49.09	140.91		20	45.5	92.6
17		24	10.00	141.16		22	18.1	85.1
18	18	26	31.16	141.40	−22	23	43.2	−77.6
19		28	52.56	141.64		25	0.8	70.0
20		31	14.20	141.86		26	10.8	62.3
21		33	36.06	142.10		27	13.1	54.5
22		35	58.16	142.33		28	7.6	46.8
23		38	20.49	142.55		28	54.4	39.1

3月9日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	18	40	43.04	142.77	−22	29	33.5	−31.3
1		43	5.81	142.99		30	4.8	23.4
2		45	28.80	143.20		30	28.2	15.6
3		47	52.00	143.42		30	43.8	−7.6
4		50	15.42	143.63		30	51.4	0.3
5		52	39.05	143.82		30	51.1	8.3
6	18	55	2.87	144.02	−22	30	42.8	16.4
7		57	26.89	144.22		30	26.4	24.3
8	18	59	51.11	144.42		30	2.1	32.4
9	19	2	15.53	144.59		29	29.7	40.6
10		4	40.12	144.78		28	49.1	48.7
11		7	4.90	144.96		28	0.4	56.9
12	19	9	29.86		−22	27	3.5	

3月9日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
12	19	9	29.86	145.13	−22	27	3.5	+65.1
13		11	54.99	145.31		25	58.4	73.3
14		14	20.30	145.47		24	45.1	81.6
15		16	45.77	145.63		23	23.5	89.8
16		19	11.40	145.79		21	53.7	98.1
17		21	37.19	145.95		20	15.6	106.5
18	19	24	3.14	146.10	−22	18	29.1	+114.8
19		26	29.24	146.23		16	34.3	123.2
20		28	55.47	146.38		14	31.1	131.6
21		31	21.85	146.51		12	19.5	139.9
22		33	48.36	146.65		9	59.6	148.4
23		36	15.01	146.77		7	31.2	156.8

3月10日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	19	38	41.78	146.90	−22	4	54.4	+165.2
1		41	8.68	147.01	22	2	9.2	173.7
2		43	35.69	147.12	21	59	15.5	182.2
3		46	2.81	147.23		56	13.3	190.6
4		48	30.04	147.33		53	2.7	199.1
5		50	57.37	147.44		49	43.6	207.6
6	19	53	24.81	147.53	−21	46	16.0	+216.1
7		55	52.34	147.61		42	39.9	224.6
8	19	58	19.95	147.70		38	55.3	233.1
9	20	0	47.65	147.78		35	2.2	241.6
10		3	15.43	147.86		31	0.6	250.1
11		5	43.29	147.93		26	50.5	258.6
12	20	8	11.22	148.00	−21	22	31.9	+267.1
13		10	39.22	148.05		18	4.8	275.6
14		13	7.27	148.11		13	29.2	284.1
15		15	35.38	148.17		8	45.1	292.7
16		18	3.55	148.22	21	3	52.4	301.1
17		20	31.77	148.25	20	58	51.3	309.5
18	20	23	0.02	148.29	−20	53	41.8	+318.0
19		25	28.31	148.33		48	23.8	326.4
20		27	56.64	148.36		42	57.4	334.9
21		30	25.00	148.38		37	22.5	343.3
22		32	53.38	148.41		31	39.2	351.7
23		35	21.79	148.42		25	47.5	360.0

3月11日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	20	37	50.21	148.44	−20	19	47.5	+368.4
1		40	18.65	148.44		13	39.1	376.7
2		42	47.09	148.45		7	22.4	385.0
3		45	15.54	148.44	20	0	57.4	393.4
4		47	43.98	148.44	19	54	24.0	401.7
5		50	12.42	148.43		47	42.3	409.8
6	20	52	40.85	148.42	−19	40	52.5	+418.0
7		55	9.27	148.40		33	54.5	426.2
8	20	57	37.67	148.38		26	48.3	434.3
9	21	0	6.05	148.36		19	34.0	442.4
10		2	34.41	148.33		12	11.6	450.5
11		5	2.74	148.30	19	4	41.1	458.5
12	21	7	31.04	148.26	−18	57	2.6	+466.5
13		9	59.30	148.23		49	16.1	474.4
14		12	27.53	148.18		41	21.7	482.4
15		14	55.71	148.14		33	19.3	490.3
16		17	23.85	148.09		25	9.0	498.1
17		19	51.94	148.03		16	50.9	505.8
18	21	22	19.97	147.99	−18	8	25.1	+513.6
19		24	47.96	147.92	17	59	51.5	521.2
20		27	15.88	147.86		51	10.3	528.9
21		29	43.74	147.80		42	21.4	536.4
22		32	11.54	147.73		33	25.0	544.0
23		34	39.27	147.66		24	21.0	551.4
24	21	37	6.93		−17	15	9.6	

3月12日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	21	37	6.93	147.59	−17	15	9.6	+558.9
1		39	34.52	147.51		17	5	50.7	566.2
2		42	2.03	147.44		16	56	24.5	573.5
3		44	29.47	147.35			46	51.0	580.7
4		46	56.82	147.27			37	10.3	587.9
5		49	24.09	147.18			27	22.4	595.0
6	21	51	51.27	147.10	−16	17	27.4	+602.0
7		54	18.37	147.01		16	7	25.4	609.0
8		56	45.38	146.92		15	57	16.4	615.9
9	21	59	12.30	146.83			47	0.5	622.8
10	22	1	39.13	146.73			36	37.7	629.5
11		4	5.86	146.63			26	8.2	636.3
12	22	6	32.49	146.54	−15	15	31.9	+642.9
13		8	59.03	146.43		15	4	49.0	649.4
14		11	25.46	146.33		14	53	59.6	655.9
15		13	51.79	146.23			43	3.7	662.3
16		16	18.02	146.13			32	1.4	668.7
17		18	44.15	146.03			20	52.7	674.9
18	22	21	10.18	145.91	−14	9	37.8	+681.1
19		23	36.09	145.81		13	58	16.7	687.1
20		26	1.90	145.70			46	49.6	693.1
21		28	27.60	145.59			35	16.5	699.1
22		30	53.19	145.48			23	37.4	704.9
23		33	18.67	145.37			11	52.5	710.7

3月13日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	22	35	44.04	145.26	−13	0	1.8	+716.4
1		38	9.30	145.15		12	48	5.4	721.9
2		40	34.45	145.04			36	3.5	727.4
3		42	59.49	144.93			23	56.1	732.9
4		45	24.42	144.81		12	11	43.2	738.2
5		47	49.23	144.70		11	59	25.0	743.4
6	22	50	13.93	144.59	−11	47	1.6	+748.5
7		52	38.52	144.48			34	33.1	753.5
8		55	3.00	144.36			21	59.6	758.5
9		57	27.36	144.25		11	9	21.1	763.4
10	22	59	51.61	144.14		10	56	37.7	768.1
11	23	2	15.75	144.03			43	49.6	772.7
12	23	4	39.78	143.92	−10	30	56.9	+777.3
13		7	3.70	143.81			17	59.6	781.8
14		9	27.51	143.69		10	4	57.8	786.1
15		11	51.20	143.58		9	51	51.7	790.5
16		14	14.78	143.47			38	41.2	794.7
17		16	38.25	143.37			25	26.5	798.7
18	23	19	1.62	143.26	−9	12	7.8	+802.7
19		21	24.88	143.16		8	58	45.1	806.5
20		23	48.04	143.05			45	18.6	810.3
21		26	11.09	142.95			31	48.3	814.0
22		28	34.04	142.84			18	14.3	817.5
23		30	56.88	142.74		8	4	36.8	821.0

3月14日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	23	33	19.62	142.63	−7	50	55.8	+824.4
1		35	42.25	142.53		37	11.4	827.6
2		38	4.78	142.44		23	23.8	830.8
3		40	27.22	142.34	7	9	33.0	833.8
4		42	49.56	142.25	6	55	39.2	836.7
5		45	11.81	142.15			41	42.5	839.6
6	23	47	33.96	142.06	−6	27	42.9	+842.3
7		49	56.02	141.97		6	13	40.6	844.9
8		52	17.99	141.88		5	59	35.7	847.4
9		54	39.87	141.79			45	28.3	849.8
10		57	1.66	141.70			31	18.5	852.1
11	23	59	23.36	141.62			17	6.4	854.2
12	0	1	44.98		−5	2	52.2	

3月14日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
12	0	1	44.98	141.54	−5	2	52.2	+856.3
13		4	6.52	141.46		4	48	35.9	858.3
14		6	27.98	141.38			34	17.6	860.2
15		8	49.36	141.30			19	57.4	861.9
16		11	10.66	141.23		4	5	35.5	863.5
17		13	31.89	141.16		3	51	12.0	865.0
18	0	15	53.05	141.09	−3	36	47.0	+866.5
19		18	14.14	141.02			22	20.5	867.8
20		20	35.16	140.95		3	7	52.7	869.0
21		22	56.11	140.88		2	53	23.7	870.1
22		25	16.99	140.83			38	53.6	871.1
23		27	37.82	140.76			24	22.5	872.0

3月15日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	0	29	58.58	140.71	−2	9	50.5	+872.8
1		32	19.29	140.65		1	55	17.7	873.4
2		34	39.94	140.60			40	44.3	873.9
3		37	0.54	140.55			26	10.4	874.3
4		39	21.09	140.50		1	11	36.1	874.7
5		41	41.59	140.45		0	57	1.4	874.9
6	0	44	2.04	140.41	−0	42	26.5	+875.0
7		46	22.45	140.36			27	51.5	875.0
8		48	42.81	140.33	−0	13	16.5	874.9
9		51	3.14	140.29	+0	1	18.4	874.7
10		53	23.43	140.26			15	53.1	874.4
11		55	43.69	140.22			30	27.5	874.0
12	0	58	3.91	140.19	+0	0	45	1.5	+873.4
13	1	0	24.10	140.17		0	59	34.9	872.8
14		2	44.27	140.15		1	14	7.7	872.0
15		5	4.42	140.12			28	39.7	871.2
16		7	24.54	140.10			43	10.9	870.2
17		9	44.64	140.08		1	57	41.1	869.1
18	1	12	4.72	140.06	+2	12	10.2	+868.0
19		14	24.78	140.05			26	38.2	866.7
20		16	44.83	140.04			41	4.9	865.3
21		19	4.87	140.04		2	55	30.2	863.8
22		21	24.91	140.03		3	9	54.0	862.2
23		23	44.94	140.02			24	16.2	860.5

3月16日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″
0	1	26	4.96	140.02	+3	38	36.7	+858.7
1		28	24.98	140.02		3	52	55.4	856.8
2		30	45.00	140.03		4	7	12.2	854.8
3		33	5.03	140.02			21	27.0	852.8
4		35	25.05	140.03			35	39.8	850.6
5		37	45.08	140.05		4	49	50.4	848.2
6	1	40	5.13	140.06	+5	3	58.6	+845.7
7		42	25.19	140.07			18	4.3	843.3
8		44	45.26	140.09			32	7.6	840.8
9		47	5.35	140.10		5	46	8.4	838.1
10		49	25.45	140.13		6	0	6.5	835.2
11		51	45.58	140.15			14	1.7	832.2
12	1	54	5.73	140.17	+6	27	53.9	+829.3
13		56	25.90	140.20			41	43.2	826.3
14	1	58	46.10	140.22		6	55	29.5	823.1
15	2	1	6.32	140.25		7	9	12.6	819.8
16		3	26.57	140.29			22	52.4	816.4
17		5	46.86	140.32			36	28.8	813.0
18	2	8	7.18	140.36	+7	50	1.8	+809.4
19		10	27.54	140.39		8	3	31.2	805.8
20		12	47.93	140.44			16	57.0	802.1
21		15	8.37	140.47			30	19.1	798.2
22		17	28.84	140.52			43	37.3	794.3
23		19	49.36	140.56		8	56	51.6	790.3
24	2	22	9.92		+9	10	1.9	

3 月 17 日

世界時 h	赤經 h m s	s	赤緯 ° ′ ″	″
0	2 22 9.92	140.61	+ 9 10 1.9	+786.3
1	24 30.53	140.70	23 8.2	782.0
2	26 51.18	140.65	36 10.2	777.8
3	29 11.88	140.75	9 49 8.0	773.4
4	31 32.63	140.80	10 2 1.4	769.0
5	33 53.43	140.86	14 50.4	764.6
6	2 36 14.29	140.91	+10 27 35.0	+759.9
7	38 35.20	140.96	40 14.9	755.2
8	40 56.16	141.02	10 52 50.1	750.5
9	43 17.18	141.07	11 5 20.6	745.7
10	45 38.25	141.14	17 46.3	740.8
11	47 59.39	141.19	30 7.1	735.7
12	2 50 20.58	141.25	+11 42 22.8	+730.7
13	52 41.83	141.31	11 54 33.5	725.6
14	55 3.14	141.38	12 6 39.1	720.3
15	57 24.52	141.43	18 39.4	715.0
16	2 59 45.95	141.50	30 34.4	709.6
17	3 2 7.45	141.56	42 24.0	704.2
18	3 4 29.01	141.63	+12 54 8.2	+698.7
19	6 50.64	141.69	13 5 46.9	693.0
20	9 12.33	141.76	17 19.9	687.4
21	11 34.09	141.82	28 47.3	681.7
22	13 55.91	141.89	40 9.0	675.9
23	16 17.80	141.95	13 51 24.9	670.0

3 月 18 日

世界時 h	赤經 h m s	s	赤緯 ° ′ ″	″
0	3 18 39.75	142.02	+14 2 34.9	+664.1
1	21 1.77	142.08	13 39.0	658.1
2	23 23.85	142.15	24 37.1	652.0
3	25 46.00	142.21	35 29.1	645.9
4	28 8.21	142.28	46 15.0	639.7
5	30 30.49	142.35	14 56 54.7	633.4
6	3 32 52.84	142.41	+15 7 28.1	+627.2
7	35 15.25	142.48	17 55.3	620.8
8	37 37.73	142.54	28 16.1	614.4
9	40 0.27	142.60	38 30.5	607.9
10	42 22.87	142.66	48 38.4	601.3
11	44 45.53	142.72	15 58 39.7	594.7
12	3 47 8.25	142.79	+16 8 34.4	+588.1
13	49 31.04	142.84	18 22.5	581.4
14	51 53.88	142.91	28 3.9	574.6
15	54 16.79	142.97	37 38.5	567.8
16	56 39.76	143.03	47 6.3	561.0
17	3 59 2.79	143.08	16 56 27.3	554.1
18	4 1 25.87	143.13	+17 5 41.4	+547.2
19	3 49.00	143.19	14 48.6	540.1
20	6 12.19	143.25	23 48.7	533.0
21	8 35.44	143.30	32 41.7	526.0
22	10 58.74	143.35	41 27.7	518.9
23	13 22.09	143.39	50 6.6	511.6

3 月 19 日

世界時 h	赤經 h m s	s	赤緯 ° ′ ″	″
0	4 15 45.48	143.44	+17 58 38.2	+504.4
1	18 8.92	143.49	18 7 2.6	497.2
2	20 32.41	143.53	15 19.8	489.9
3	22 55.94	143.58	23 29.7	482.5
4	25 19.52	143.62	31 32.2	475.1
5	27 43.14	143.65	39 27.3	467.8
6	4 30 6.79	143.68	+18 47 15.1	+460.3
7	32 30.47	143.72	18 54 55.4	452.8
8	34 54.19	143.75	19 2 28.2	445.3
9	37 17.94	143.78	9 53.5	437.7
10	39 41.72	143.81	17 11.2	430.2
11	42 5.53	143.84	24 21.4	422.5
12	4 44 29.37	143.86	+19 31 23.9	+414.9
13	46 53.23	143.87	38 18.8	407.3
14	49 17.10	143.89	45 6.1	399.5
15	51 40.99	143.91	51 45.6	391.8
16	54 4.90	143.92	19 58 17.4	384.1
17	56 28.82	143.93	20 4 41.5	376.3
18	4 58 52.75	143.94	+20 10 57.8	+368.5
19	5 1 16.69	143.93	17 6.3	360.7
20	3 40.62	143.94	23 7.0	352.9
21	6 4.56	143.94	28 59.9	345.0
22	8 28.50	143.94	34 44.9	337.2
23	10 52.44	143.93	40 22.1	329.3

3 月 20 日

世界時 h	赤經 h m s	s	赤緯 ° ′ ″	″
0	5 13 16.37	143.92	+20 45 51.4	+321.4
1	15 40.29	143.90	51 12.8	313.5
2	18 4.19	143.89	20 56 26.3	305.6
3	20 28.08	143.86	21 1 31.9	297.6
4	22 51.94	143.84	6 29.5	289.7
5	25 15.78	143.82	11 19.2	281.7
6	5 27 39.60	143.79	+21 16 0.9	+273.7
7	30 3.39	143.75	20 34.6	265.7
8	32 27.14	143.72	25 0.3	257.7
9	34 50.86	143.67	29 18.0	249.8
10	37 14.53	143.63	33 27.8	241.8
11	39 38.16	143.59	37 29.6	233.8
12	5 42 1.75	143.54	+21 41 23.4	+225.8
13	44 25.29	143.48	45 9.2	217.8
14	46 48.77	143.43	48 47.0	209.8
15	49 12.20	143.36	52 16.8	201.8
16	51 35.56	143.30	55 38.6	193.7
17	53 58.86	143.24	21 58 52.3	185.7
18	5 56 22.10	143.17	+22 1 58.0	+177.7
19	5 58 45.27	143.08	4 55.7	169.7
20	6 1 8.35	143.01	7 45.4	161.8
21	3 31.36	142.93	10 27.2	153.8
22	5 54.29	142.84	13 1.0	145.8
23	8 17.13	142.75	15 26.8	137.9

3 月 21 日

世界時 h	赤經 h m s	s	赤緯 ° ′ ″	″
0	6 10 39.88	142.66	+22 17 44.7	+129.9
1	13 2.54	142.56	19 54.6	121.9
2	15 25.10	142.47	21 56.5	114.0
3	17 47.57	142.36	23 50.5	106.1
4	20 9.93	142.26	25 36.6	98.2
5	22 32.19	142.14	27 14.8	90.3
6	6 24 54.33	142.03	+22 28 45.1	+ 82.4
7	27 16.36	141.90	30 7.5	74.6
8	29 38.26	141.79	31 22.1	66.7
9	32 0.05	141.67	32 28.8	58.9
10	34 21.72	141.54	33 27.7	51.0
11	36 43.26	141.40	34 18.7	43.2
12	6 39 4.66	141.26	+22 35 1.9	+ 35.5
13	41 25.92	141.12	35 37.4	+ 27.7
14	43 47.04	140.99	36 5.1	20.0
15	46 8.03	140.84	36 25.1	12.2
16	48 28.87	140.70	36 37.3	+ 4.6
17	50 49.57	140.54	36 41.9	− 3.1
18	6 53 10.11	140.39	+22 36 38.8	− 10.7
19	55 30.50	140.23	36 28.1	18.3
20	6 57 50.73	140.07	36 9.8	25.9
21	7 0 10.80	139.90	35 43.9	33.5
22	2 30.70	139.73	35 10.4	41.0
23	4 50.43	139.56	34 29.4	− 48.5
24	7 7 9.99		+22 33 40.9	

3 月 22 日

世界時 h	赤經 h m s	s	赤緯 ° ′ ″	″
0	7 7 9.99	139.39	+22 33 40.9	− 56.0
1	9 29.38	139.21	32 44.9	63.4
2	11 48.59	139.03	31 41.5	70.8
3	14 7.62	138.85	30 30.7	78.2
4	16 26.47	138.66	29 12.5	85.5
5	18 45.13	138.47	27 47.0	92.9
6	7 21 3.60	138.28	+22 26 14.1	−100.2
7	23 21.88	138.08	24 33.9	107.4
8	25 39.96	137.89	22 46.5	114.5
9	27 57.85	137.69	20 52.0	121.7
10	30 15.54	137.49	18 50.3	128.9
11	32 33.03	137.28	16 41.4	136.1
12	7 34 50.31	137.08	+22 14 25.3	−143.1
13	37 7.39	136.86	12 2.2	150.1
14	39 24.25	136.65	9 32.1	157.1
15	41 40.90	136.44	6 55.0	164.1
16	43 57.34	136.22	4 10.9	171.0
17	46 13.56	136.00	22 1 19.9	177.9
18	7 48 29.56	135.79	+21 58 22.0	−184.7
19	50 45.35	135.56	55 17.3	191.4
20	53 0.91	135.34	52 5.9	198.2
21	55 16.25	135.11	48 47.7	205.0
22	57 31.36	134.89	45 22.7	211.7
23	7 59 46.25	134.65	41 51.0	218.2

3 月 23 日

世界時 h	赤經 h m s	s	赤緯 ° ′ ″	″
0	8 2 0.90	134.42	+21 38 12.8	−224.8
1	4 15.32	134.19	34 28.0	231.4
2	6 29.51	133.96	30 36.6	237.9
3	8 43.47	133.72	26 38.7	244.3
4	10 57.19	133.48	22 34.4	250.8
5	13 10.67	133.23	18 23.6	257.1
6	8 15 23.90	133.00	+21 14 6.5	−263.4
7	17 36.90	132.76	9 43.1	269.7
8	19 49.66	132.52	5 13.4	276.0
9	22 2.18	132.27	21 0 37.4	282.2
10	24 14.45	132.02	20 55 55.2	288.3
11	26 26.47	131.78	51 6.9	294.3
12	8 28 38.25	131.53	+20 46 12.6	−300.4
13	30 49.78	131.28	41 12.2	306.4
14	33 1.06	131.03	36 5.8	312.4
15	35 12.09	130.79	30 53.4	318.4
16	37 22.88	130.54	25 35.0	324.2
17	39 33.42	130.28	20 10.8	330.0
18	8 41 43.70	130.03	+20 14 40.8	−335.7
19	43 53.73	129.78	9 5.1	341.5
20	46 3.51	129.53	20 3 23.6	347.2
21	48 13.04	129.27	19 57 36.4	352.7
22	50 22.31	129.02	51 43.7	358.3
23	52 31.33	128.77	45 45.4	363.9

3 月 24 日

世界時 h	赤經 h m s	s	赤緯 ° ′ ″	″
0	8 54 40.10	128.51	+19 39 41.5	−369.4
1	56 48.61	128.26	33 32.1	374.7
2	8 58 56.87	128.01	27 17.4	380.2
3	9 1 4.88	127.75	20 57.2	385.5
4	3 12.63	127.50	14 31.7	390.8
5	5 20.13	127.25	8 0.9	396.1
6	9 7 27.38	127.00	+19 1 24.8	−401.2
7	9 34.38	126.74	18 54 43.6	406.3
8	11 41.12	126.49	47 57.3	411.5
9	13 47.61	126.24	41 5.8	416.5
10	15 53.85	125.99	34 9.3	421.5
11	17 59.84	125.73	27 7.8	−426.4
12	9 20 5.57	125.48	+18 20 1.4	−431.3
13	22 11.05	125.23	12 50.1	436.2
14	24 16.28	124.98	18 5 33.9	441.0
15	26 21.26	124.74	17 58 12.9	445.7
16	28 26.00	124.49	50 47.2	450.4
17	30 30.49	124.24	43 16.8	455.0
18	9 32 34.73	123.99	+17 35 41.8	−459.7
19	34 38.72	123.75	28 2.1	464.2
20	36 42.47	123.51	20 17.9	468.7
21	38 45.98	123.26	12 29.2	473.1
22	40 49.24	123.02	17 4 36.1	477.5
23	42 52.26	122.77	16 56 38.6	481.9

3 月 25 日

世界時 h	赤經 h m s	s	赤緯 ° ′ ″	″
0	9 44 55.03	122.54	+16 48 36.7	−486.2
1	46 57.57	122.29	40 30.5	490.4
2	48 59.86	122.06	32 20.1	494.6
3	51 1.92	121.82	24 5.5	498.8
4	53 3.74	121.58	15 46.7	502.9
5	55 5.32	121.35	16 7 23.8	507.0
6	9 57 6.67	121.12	+15 58 56.8	−511.0
7	9 59 7.79	120.88	50 25.8	514.9
8	10 1 8.67	120.66	41 50.9	518.9
9	3 9.33	120.43	33 12.0	522.7
10	5 9.76	120.20	24 29.3	526.5
11	7 9.96	119.97	15 42.8	530.3
12	10 9 9.93	119.75	+15 6 52.5	−534.0
13	11 9.68	119.53	14 57 58.5	537.7
14	13 9.21	119.31	49 0.8	541.3
15	15 8.52	119.10	39 59.5	544.9
16	17 7.62	118.88	30 54.6	548.4
17	19 6.50	118.66	21 46.2	551.9
18	10 21 5.16	118.45	+14 12 34.3	−555.3
19	23 3.61	118.23	14 3 19.0	558.7
20	25 1.84	118.03	13 54 0.3	562.1
21	26 59.87	117.82	44 38.2	565.2
22	28 57.69	117.62	35 13.0	568.5
23	30 55.31	117.41	25 44.5	571.7

3 月 26 日

世界時 h	赤經 h m s	s	赤緯 ° ′ ″	″
0	10 32 52.72	117.21	+13 16 12.8	−574.9
1	34 49.93	117.01	13 6 37.9	578.0
2	36 46.94	116.82	12 56 59.9	581.1
3	38 43.76	116.62	47 18.8	584.0
4	40 40.38	116.42	37 34.8	587.0
5	42 36.80	116.23	27 47.8	589.9
6	10 44 33.03	116.04	+12 17 57.9	−592.8
7	46 29.07	115.86	12 8 5.1	595.6
8	48 24.93	115.68	11 58 9.5	598.3
9	50 20.61	115.49	48 11.2	601.1
10	52 16.10	115.32	38 10.1	603.8
11	54 11.42	115.14	28 6.3	606.5
12	10 56 6.56	114.96	+11 17 59.8	−609.0
13	58 1.52	114.79	11 7 50.8	611.6
14	10 59 56.31	114.62	10 57 39.2	614.1
15	11 1 50.93	114.45	47 25.1	616.5
16	3 45.38	114.28	37 8.6	618.9
17	5 39.66	114.12	26 49.7	621.3
18	11 7 33.78	113.97	+10 16 28.4	−623.6
19	9 27.75	113.80	10 6 4.8	625.9
20	11 21.55	113.65	9 55 38.9	628.2
21	13 15.20	113.49	45 10.7	630.3
22	15 8.69	113.34	34 40.4	632.4
23	17 2.03	113.20	24 8.0	634.6
24	11 18 55.23		+ 9 13 33.4	

3 月 27 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	11	18	55.23	113.05	+ 9	13	33.4		−636.7
1		20	48.28	112.91		9	2	56.7	638.6
2		22	41.19	112.77		8	52	18.1	640.6
3		24	33.96	112.63			41	37.5	642.5
4		26	26.59	112.49			30	55.0	644.4
5		28	19.08	112.36			20	10.6	646.2
6	11	30	11.44	112.22	+ 8	9	24.4		−648.0
7		32	3.66	112.10		7	58	36.4	649.8
8		33	55.76	111.98			47	46.6	651.5
9		35	47.74	111.85			36	55.1	653.1
10		37	39.59	111.73			26	2.0	654.7
11		39	31.32	111.61			15	7.3	656.3
12	11	41	22.93	111.50	+ 7	4	11.0		−657.9
13		43	14.43	111.38		6	53	13.1	659.3
14		45	5.81	111.28			42	13.8	660.7
15		46	57.09	111.18			31	13.1	662.2
16		48	48.27	111.07			20	10.9	663.6
17		50	39.34	110.97		6	9	7.3	664.9
18	11	52	30.31	110.87	+ 5	58	2.4		−666.2
19		54	21.18	110.78			46	56.2	667.3
20		56	11.96	110.69			35	48.9	668.6
21		58	2.65	110.59			24	40.3	669.7
22	11	59	53.24	110.51			13	30.6	670.8
23	12	1	43.75	110.42		5	2	19.8	671.9

3 月 28 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	12	3	34.17	110.34	+ 4	51	7.9		−672.9
1		5	24.51	110.26		39	55.0		673.9
2		7	14.77	110.19		28	41.1		674.8
3		9	4.96	110.11		17	26.3		675.8
4		10	55.07	110.04		4	6	10.5	676.6
5		12	45.11	109.98		3	54	53.9	677.4
6	12	14	35.09	109.91	+ 3	43	36.5		−678.2
7		16	25.00	109.85		32	18.3		679.0
8		18	14.85	109.80		20	59.3		679.7
9		20	4.65	109.74		3	9	39.6	680.3
10		21	54.39	109.68		2	58	19.3	680.8
11		23	44.07	109.62			46	58.5	681.4
12	12	25	33.69	109.58	+ 2	35	37.1		−682.0
13		27	23.27	109.54		24	15.1		682.5
14		29	12.81	109.50		12	52.6		683.0
15		31	2.31	109.45		2	1	29.6	683.3
16		32	51.76	109.42		1	50	6.3	683.7
17		34	41.18	109.38			38	42.6	684.1
18	12	36	30.56	109.36	+ 1	27	18.5		−684.4
19		38	19.92	109.33		15	54.1		684.5
20		40	9.25	109.30		1	4	29.6	684.8
21		41	58.55	109.28		0	53	4.8	685.0
22		43	47.83	109.26			41	39.8	685.0
23		45	37.09	109.25			30	14.8	685.0

3 月 29 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	12	47	26.34	109.24	+ 0	18	49.8		−685.2
1		49	15.58	109.22	+ 0	7	24.6		685.2
2		51	4.80	109.21	− 0	4	0.6		685.2
3		52	54.01	109.21			15	25.8	685.0
4		54	43.22	109.21			26	50.8	684.9
5		56	32.43	109.21			38	15.7	684.7
6	12	58	21.64	109.21	− 0	49	40.4		−684.6
7	13	0	10.85	109.21		1	1	5.0	684.3
8		2	0.06	109.23			12	29.3	684.1
9		3	49.29	109.24			23	53.4	683.7
10		5	38.53	109.26			35	17.1	683.4
11		7	27.79	109.28			46	40.5	−683.0
12	13	9	17.07		− 1	58	3.5		

3 月 29 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
12	13	9	17.07	109.30	− 1	58	3.5		−682.5
13		11	6.37	109.32		2	9	26.0	682.1
14		12	55.69	109.35			20	48.1	681.6
15		14	45.04	109.37			32	9.7	681.0
16		16	34.41	109.41			43	30.7	680.3
17		18	23.82	109.44		2	54	51.0	679.7
18	13	20	13.26	109.48	− 3	6	10.7		−679.0
19		22	2.74	109.52			17	29.7	678.3
20		23	52.26	109.57			28	48.0	677.6
21		25	41.83	109.61			40	5.6	676.7
22		27	31.44	109.67		3	51	22.3	675.9
23		29	21.11	109.72		4	2	38.2	675.1

3 月 30 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	13	31	10.83	109.77	− 4	13	53.3		−674.1
1		33	0.60	109.83			25	7.4	673.1
2		34	50.43	109.89			36	20.5	672.1
3		36	40.32	109.95			47	32.6	671.1
4		38	30.27	110.02		4	58	43.7	670.0
5		40	20.29	110.10		5	9	53.7	668.9
6	13	42	10.39	110.16	− 5	21	2.6		−667.7
7		44	0.55	110.24			32	10.3	666.5
8		45	50.79	110.32			43	16.8	665.3
9		47	41.11	110.40		5	54	22.1	664.0
10		49	31.51	110.48		6	5	26.1	662.6
11		51	21.99	110.56			16	28.7	661.2
12	13	53	12.55	110.65	− 6	27	29.9		−659.8
13		55	3.20	110.75			38	29.7	658.4
14		56	53.95	110.84		6	49	28.1	656.9
15	13	58	44.79	110.93		7	0	25.0	655.4
16	14	0	35.72	111.05			11	20.4	653.8
17		2	26.77	111.14			22	14.2	652.2
18	14	4	17.91	111.25	− 7	33	6.4		−650.5
19		6	9.16	111.35			43	56.9	648.8
20		8	0.51	111.46		7	54	45.7	647.1
21		9	51.97	111.58		8	5	32.8	645.3
22		11	43.55	111.70			16	18.1	643.4
23		13	35.25	111.81			27	1.5	641.6

3 月 31 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	14	15	27.06	111.94	− 8	37	43.1		−639.7
1		17	19.00	112.05			48	22.8	637.7
2		19	11.05	112.18		8	59	0.5	635.8
3		21	3.23	112.32		9	9	36.3	633.7
4		22	55.55	112.45			20	10.0	631.7
5		24	48.00	112.58			30	41.7	629.5
6	14	26	40.58	112.72	− 9	41	11.2		−627.4
7		28	33.30	112.86		9	51	38.6	625.1
8		30	26.16	113.00		10	2	3.7	622.9
9		32	19.16	113.14			12	26.6	620.7
10		34	12.30	113.29			22	47.3	618.3
11		36	5.59	113.45			33	5.6	615.9
12	14	37	59.04	113.59	−10	43	21.5		−613.5
13		39	52.63	113.75		10	53	35.0	611.1
14		41	46.38	113.91		11	3	46.1	608.6
15		43	40.29	114.07			13	54.7	606.1
16		45	34.36	114.23			24	0.8	603.5
17		47	28.59	114.39			34	4.3	600.8
18	14	49	22.98	114.56	−11	44	5.1		−598.2
19		51	17.54	114.73		11	54	3.3	595.4
20		53	12.27	114.90		12	3	58.7	592.7
21		55	7.17	115.08			13	51.4	589.8
22		57	2.25	115.26			23	41.2	587.0
23	14	58	57.51	115.43			33	28.2	−584.2
24	15	0	52.94		−12	43	12.4		

4 月 1 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	15	0	52.94	115.62	−12	43	12.4		−581.3
1		2	48.56	115.80		12	52	53.7	578.2
2		4	44.36	115.98		13	2	31.9	575.2
3		6	40.34	116.16			12	7.1	572.1
4		8	36.50	116.36			21	39.2	569.0
5		10	32.86	116.55			31	8.2	565.9
6	15	12	29.41	116.75	−13	40	34.1		−562.7
7		14	26.16	116.94			49	56.8	559.5
8		16	23.10	117.14		13	59	16.3	556.2
9		18	20.24	117.34		14	8	32.5	552.8
10		20	17.58	117.55			17	45.3	549.4
11		22	15.13	117.75			26	54.7	546.0
12	15	24	12.88	117.95	−14	36	0.7		−542.6
13		26	10.83	118.16			45	3.3	539.0
14		28	8.99	118.37		14	54	2.3	535.5
15		30	7.36	118.58		15	2	57.8	531.9
16		32	5.94	118.80			11	49.7	528.2
17		34	4.74	119.01			20	37.9	524.5
18	15	36	3.75	119.23	−15	29	22.4		−520.8
19		38	2.98	119.45			38	3.2	517.0
20		40	2.43	119.67			46	40.2	513.1
21		42	2.10	119.89		15	55	13.3	509.3
22		44	1.99	120.12		16	3	42.6	505.4
23		46	2.11	120.34			12	8.0	501.3

4 月 2 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	15	48	2.45	120.57	−16	20	29.3		−497.3
1		50	3.02	120.80			28	46.6	493.3
2		52	3.82	121.03			36	59.9	489.2
3		54	4.85	121.26			45	9.1	485.0
4		56	6.11	121.49		16	53	14.1	480.8
5	15	58	7.60	121.73		17	1	14.9	476.5
6	16	0	9.33	121.96	−17	9	11.4		−472.3
7		2	11.29	122.20			17	3.7	467.9
8		4	13.49	122.44			24	51.6	463.5
9		6	15.93	122.68			32	35.1	459.1
10		8	18.61	122.92			40	14.2	454.6
11		10	21.53	123.16			47	48.8	450.0
12	16	12	24.69	123.40	−17	55	18.8		−445.4
13		14	28.09	123.65		18	2	44.2	440.8
14		16	31.74	123.89			10	5.0	436.2
15		18	35.63	124.14			17	21.2	431.4
16		20	39.77	124.39			24	32.6	426.7
17		22	44.16	124.64			31	39.3	421.8
18	16	24	48.80	124.88	−18	38	41.1		−417.0
19		26	53.68	125.12			45	38.1	412.0
20		28	58.80	125.37			52	30.1	407.1
21		31	4.17	125.63		18	59	17.2	402.1
22		33	9.80	125.88		19	5	59.3	397.0
23		35	15.68	126.13			12	36.3	391.9

4 月 3 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	16	37	21.81	126.38	−19	19	8.2		−386.7
1		39	28.19	126.63			25	34.9	381.6
2		41	34.82	126.88			31	56.5	376.3
3		43	41.70	127.14			38	12.8	371.0
4		45	48.84	127.39			44	23.8	365.7
5		47	56.23	127.64			50	29.5	360.3
6	16	50	3.87	127.89	−19	56	29.8		−354.8
7		52	11.76	128.15		20	2	24.6	349.4
8		54	19.91	128.39			8	14.0	343.9
9		56	28.30	128.65			13	57.9	338.2
10	16	58	36.95	128.90			19	36.1	332.6
11	17	0	45.85	129.16			25	8.7	−326.9
12	17	2	55.01		−20	30	35.6		

4 月 3 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
12	17	2	55.01	129.41	−20	30	35.6		−321.2
13		5	4.42	129.66			35	56.8	315.5
14		7	14.08	129.91			41	12.3	309.6
15		9	23.99	130.16			46	21.9	303.7
16		11	34.15	130.41			51	25.6	297.9
17		13	44.56	130.66		20	56	23.5	291.9
18	17	15	55.22	130.91	−21		1	15.4	−285.9
19		18	6.13	131.15			6	1.3	279.9
20		20	17.28	131.40			10	41.2	273.8
21		22	28.68	131.65			15	15.0	267.6
22		24	40.33	131.89			19	42.6	261.5
23		26	52.22	132.14			24	4.1	255.3

4 月 4 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	17	29	4.36	132.39	−21	28	19.4		−249.0
1		31	16.75	132.62			32	28.4	242.6
2		33	29.37	132.87			36	31.0	236.3
3		35	42.24	133.11			40	27.3	230.0
4		37	55.35	133.35			44	17.3	223.5
5		40	8.70	133.58			48	0.8	217.0
6	17	42	22.28	133.81	−21	51	37.8		−210.4
7		44	36.09	134.05			55	8.2	203.9
8		46	50.14	134.29		21	58	32.1	197.3
9		49	4.43	134.52		22	1	49.4	190.6
10		51	18.95	134.75			5	0.0	183.9
11		53	33.70	134.97			8	3.9	177.2
12	17	55	48.67	135.20	−22	11	1.1		−170.4
13	17	58	3.87	135.42			13	51.5	163.6
14	18	0	19.29	135.65			16	35.1	156.8
15		2	34.94	135.86			19	11.9	149.8
16		4	50.80	136.09			21	41.7	142.8
17		7	6.89	136.30			24	4.5	135.8
18	18	9	23.19	136.51	−22	26	20.3		−128.9
19		11	39.70	136.73			28	29.2	121.8
20		13	56.43	136.94			30	31.0	114.7
21		16	13.37	137.14			32	25.7	107.6
22		18	30.51	137.34			34	13.3	100.4
23		20	47.85	137.54			35	53.7	93.2

4 月 5 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	18	23	5.39	137.74	−22	37	26.9		− 86.0
1		25	23.13	137.94			38	52.9	78.7
2		27	41.07	138.14			40	11.6	71.4
3		29	59.21	138.33			41	23.0	64.1
4		32	17.54	138.52			42	27.1	56.7
5		34	36.06	138.70			43	23.8	49.3
6	18	36	54.76	138.89	−22	44	13.1		− 41.8
7		39	13.65	139.06			44	54.9	34.4
8		41	32.71	139.24			45	29.3	26.9
9		43	51.95	139.42			45	56.2	19.4
10		46	11.37	139.59			46	15.6	11.8
11		48	30.96	139.76			46	27.4	− 4.2
12	18	50	50.72	139.92	−22	46	31.6		+ 3.4
13		53	10.64	140.08			46	28.2	11.0
14		55	30.72	140.24			46	17.2	18.7
15	18	57	50.96	140.39			45	58.5	26.4
16	19	0	11.35	140.55			45	32.1	34.1
17		2	31.90	140.70			44	58.0	41.8
18	19	4	52.60	140.85	−22	44	16.2		+ 49.6
19		7	13.45	140.98			43	26.6	57.3
20		9	34.43	141.12			42	29.3	65.2
21		11	55.55	141.26			41	24.1	73.0
22		14	16.81	141.40			40	11.1	80.9
23		16	38.21	141.52			38	50.2	88.7
24	19	18	59.73		−22	37	21.5		+

世界時	赤經				赤緯			
	4月 6日							
h	h	m	s	s	°	′	″	″
0	19	18	59.73	141.65	−22	37	21.5	+ 96.6
1		21	21.38	141.76		35	44.9	104.5
2		23	43.14	141.89		34	0.4	112.4
3		26	5.03	142.00		32	8.0	120.4
4		28	27.03	142.12		30	7.6	128.3
5		30	49.15	142.22		27	59.3	136.2
6	19	33	11.37	142.33	−22	25	43.1	+ 144.2
7		35	33.70	142.43		23	18.9	152.2
8		37	56.13	142.52		20	46.7	160.2
9		40	18.65	142.62		18	6.5	168.2
10		42	41.27	142.71		15	18.3	176.2
11		45	3.98	142.79		12	22.1	184.2
12	19	47	26.77	142.88	−22	9	17.9	+ 192.3
13		49	49.65	142.95		6	5.6	200.3
14		52	12.60	143.03	22	2	45.3	208.3
15		54	35.63	143.11	21	59	17.0	216.3
16		56	58.74	143.18		55	40.7	224.4
17	19	59	21.92	143.24		51	56.3	232.4
18	20	1	45.16	143.30	−21	48	3.9	+ 240.5
19		4	8.46	143.36		44	3.4	248.5
20		6	31.82	143.42		39	54.9	256.6
21		8	55.24	143.47		35	38.3	264.6
22		11	18.71	143.52		31	13.7	272.7
23		13	42.23	143.55		26	41.0	280.7
	4月 7日							
0	20	16	5.78	143.60	−21	22	0.3	+ 288.7
1		18	29.38	143.64		17	11.6	296.7
2		20	53.02	143.67		12	14.9	304.8
3		23	16.69	143.71		7	10.1	312.8
4		25	40.40	143.74	21	1	57.3	320.8
5		28	4.14	143.76	20	56	36.5	328.7
6	20	30	27.90	143.78	−20	51	7.8	+ 336.7
7		32	51.68	143.80		45	31.1	344.6
8		35	15.48	143.82		39	46.5	352.6
9		37	39.30	143.83		33	53.9	360.5
10		40	3.13	143.84		27	53.4	368.4
11		42	26.97	143.85		21	45.0	376.4
12	20	44	50.82	143.86	−20	15	28.6	+ 384.3
13		47	14.68	143.85		9	4.3	392.0
14		49	38.53	143.85	20	2	32.3	399.9
15		52	2.38	143.85	19	55	52.4	407.7
16		54	26.22	143.84		49	4.7	415.4
17		56	50.06	143.84		42	9.3	423.2
18	20	59	13.90	143.82	−19	35	6.1	+ 430.9
19	21	1	37.72	143.80		27	55.2	438.7
20		4	1.52	143.79		20	36.5	446.4
21		6	25.31	143.77		13	10.1	453.9
22		8	49.08	143.75	19	5	36.2	461.6
23		11	12.83	143.72	18	57	54.6	469.2
	4月 8日							
0	21	13	36.55	143.69	−18	50	5.4	+ 476.7
1		16	0.24	143.67		42	8.7	484.3
2		18	23.91	143.64		34	4.4	491.8
3		20	47.55	143.60		25	52.6	499.2
4		23	11.15	143.57		17	33.4	506.5
5		25	34.72	143.54		9	6.9	513.9
6	21	27	58.26	143.50	−18	0	33.0	+ 521.3
7		30	21.76	143.45	17	51	51.7	528.5
8		32	45.21	143.42		43	3.2	535.8
9		35	8.63	143.37		34	7.4	542.9
10		37	32.00	143.33		25	4.5	550.2
11		39	55.33	143.28		15	54.3	557.3
12	21	42	18.61		−17	6	37.0	

世界時	赤經				赤緯			
	4月 8日							
h	h	m	s	s	°	′	″	″
12	21	42	18.61	143.23	−17	6	37.0	+ 564.3
13		44	41.84	143.19	16	57	12.7	571.3
14		47	5.03	143.14		47	41.4	578.3
15		49	28.17	143.08		38	3.1	585.3
16		51	51.25	143.03		28	17.8	592.1
17		54	14.28	142.98		18	25.7	598.9
18	21	56	37.26	142.92	−16	8	26.8	+ 605.6
19	21	59	0.18	142.87	15	58	21.2	612.4
20	22	1	23.05	142.81		48	8.8	619.1
21		3	45.86	142.76		37	49.7	625.6
22		6	8.62	142.70		27	24.1	632.1
23		8	31.32	142.65		16	52.0	638.6
	4月 9日							
0	22	10	53.97	142.59	−15	6	13.4	+ 645.0
1		13	16.56	142.52	14	55	28.4	651.4
2		15	39.08	142.47		44	37.0	657.7
3		18	1.55	142.41		33	39.3	663.9
4		20	23.96	142.35		22	35.4	670.1
5		22	46.31	142.28		11	25.3	676.2
6	22	25	8.59	142.23	−14	0	9.1	+ 682.2
7		27	30.82	142.16	13	48	46.9	688.2
8		29	52.98	142.11		37	18.7	694.1
9		32	15.09	142.05		25	44.6	699.9
10		34	37.14	141.99		14	4.7	705.6
11		36	59.13	141.92	13	2	19.1	711.3
12	22	39	21.05	141.87	−12	50	27.8	+ 716.9
13		41	42.92	141.81		38	30.9	722.5
14		44	4.73	141.75		26	28.4	727.9
15		46	26.48	141.69		14	20.5	733.3
16		48	48.17	141.64	12	2	7.2	738.7
17		51	9.81	141.58	11	49	48.5	743.9
18	22	53	31.39	141.52	−11	37	24.6	+ 749.0
19		55	52.91	141.47		24	55.6	754.1
20	22	58	14.38	141.41	11	12	21.5	759.0
21	23	0	35.79	141.36	10	59	42.5	764.0
22		2	57.15	141.31		46	58.5	768.8
23		5	18.46	141.25		34	9.7	773.6
	4月 10日							
0	23	7	39.71	141.20	−10	21	16.1	+ 778.2
1		10	0.91	141.16	10	8	17.9	782.8
2		12	22.07	141.11	9	55	15.1	787.3
3		14	43.18	141.06		42	7.8	791.7
4		17	4.24	141.01		28	56.1	796.0
5		19	25.25	140.98		15	40.1	800.3
6	23	21	46.23	140.94	− 9	2	19.8	+ 804.4
7		24	7.17	140.89	8	48	55.4	808.4
8		26	28.06	140.85		35	27.0	812.3
9		28	48.91	140.81		21	54.7	816.2
10		31	9.72	140.78	8	8	18.5	820.0
11		33	30.50	140.74	7	54	38.5	823.7
12	23	35	51.24	140.71	− 7	40	54.8	+ 827.2
13		38	11.95	140.67		27	7.6	830.8
14		40	32.62	140.65	7	13	16.8	834.2
15		42	53.27	140.62	6	59	22.6	837.5
16		45	13.89	140.59		45	25.1	840.7
17		47	34.48	140.57		31	24.4	843.7
18	23	49	55.05	140.55	− 6	17	20.7	+ 846.7
19		52	15.60	140.52	6	3	14.0	849.7
20		54	36.12	140.51	5	49	4.3	852.5
21		56	56.63	140.49		34	51.8	855.2
22	23	59	17.12	140.48		20	36.6	857.8
23	0	1	37.60	140.46	5	6	18.8	+ 860.2
24	0	3	58.06		− 4	51	58.6	

世界時	赤經				赤緯			
	4月 11日							
h	h	m	s	s	°	′	″	″
0	0	3	58.06	140.46	− 4	51	58.6	+ 862.6
1		6	18.52	140.45		37	36.0	864.9
2		8	38.97	140.44		23	11.1	867.2
3		10	59.41	140.43	4	8	43.9	869.3
4		13	19.84	140.44	3	54	14.6	871.3
5		15	40.28	140.43		39	43.3	873.1
6	0	18	0.71	140.45	− 3	25	10.2	+ 874.8
7		20	21.16	140.44		10	35.4	876.5
8		22	41.60	140.45	2	55	58.9	878.1
9		25	2.05	140.47		41	20.8	879.5
10		27	22.52	140.48		26	41.3	880.9
11		29	43.00	140.49	2	12	0.4	882.1
12	0	32	3.49	140.51	− 1	57	18.3	+ 883.2
13		34	24.00	140.53		42	35.1	884.3
14		36	44.53	140.55		27	50.8	885.2
15		39	5.08	140.57	1	13	5.6	885.9
16		41	25.65	140.59	0	58	19.7	886.7
17		43	46.24	140.63		43	33.0	887.3
18	0	46	6.87	140.66	− 0	28	45.7	+ 887.7
19		48	27.53	140.70	− 0	13	58.0	888.1
20		50	48.23	140.73	+ 0	0	50.1	888.3
21		53	8.96	140.76		15	38.4	888.5
22		55	29.72	140.81		30	26.9	888.5
23	0	57	50.53	140.85		0	45	15.4	888.4
	4月 12日							
0	1	0	11.38	140.90	+	1	0	3.8	+ 888.2
1		2	32.28	140.94		14	52.0	887.9
2		4	53.22	140.99		29	39.9	887.5
3		7	14.21	141.05		44	27.4	887.0
4		9	35.26	141.10	1	59	14.4	886.3
5		11	56.36	141.15	2	14	0.7	885.6
6	1	14	17.51	141.22	+	2	28	46.3	+ 884.7
7		16	38.73	141.28		43	31.0	883.7
8		19	0.01	141.34	2	58	14.7	882.6
9		21	21.35	141.41	3	12	57.3	881.4
10		23	42.76	141.48		27	38.7	880.1
11		26	4.24	141.55		42	18.8	878.7
12	1	28	25.79	141.62	+	3	56	57.5	+ 877.1
13		30	47.41	141.69	4	11	34.6	875.5
14		33	9.10	141.77		26	10.1	873.7
15		35	30.87	141.85		40	43.8	871.9
16		37	52.72	141.93	4	55	15.7	869.9
17		40	14.65	142.01	5	9	45.6	867.7
18	1	42	36.66	142.10	+	5	24	13.3	+ 865.5
19		44	58.76	142.18		38	38.8	863.2
20		47	20.94	142.27	5	53	2.0	860.8
21		49	43.21	142.36	6	7	22.8	858.2
22		52	5.57	142.45		21	41.0	855.5
23		54	28.02	142.54		35	56.5	852.8
	4月 13日							
0	1	56	50.56	142.64	+	6	50	9.3	+ 850.0
1	1	59	13.20	142.73		7	4	19.3	847.0
2	2	1	35.93	142.83		18	26.3	843.9
3		3	58.76	142.94		32	30.2	840.7
4		6	21.70	143.04	7	46	30.9	837.4
5		8	44.74	143.13	8	0	28.3	834.0
6	2	11	7.87	143.24	+	8	14	22.3	+ 830.5
7		13	31.11	143.34		28	12.8	826.9
8		15	54.45	143.45		41	59.7	823.2
9		18	17.90	143.56	8	55	42.9	819.3
10		20	41.46	143.67	9	9	22.2	815.4
11		23	5.13	143.77		22	57.6	+ 811.3
12	2	25	28.90		+	9	36	28.9	

世界時	赤經				赤緯			
	4月 13日							
h	h	m	s	s	°	′	″	″
12	2	25	28.90	143.88	+	9	36	28.9	+ 807.2
13		27	52.78	144.00		9	49	56.1	803.0
14		30	16.78	144.11		10	3	19.1	798.6
15		32	40.89	144.23			16	37.7	794.2
16		35	5.12	144.33			29	51.9	789.6
17		37	29.45	144.45			43	1.5	785.0
18	2	39	53.90	144.56	+	10	56	6.5	+ 780.3
19		42	18.46	144.68		11	9	6.8	775.4
20		44	43.14	144.80			22	2.2	770.5
21		47	7.94	144.91			34	52.7	765.4
22		49	32.85	145.03		11	47	38.1	760.3
23		51	57.88	145.14		12	0	18.4	755.1
	4月 14日							
0	2	54	23.02	145.26	+	12	12	53.5	+ 749.8
1		56	48.28	145.37			25	23.3	744.3
2	2	59	13.65	145.49			37	47.6	738.9
3	3	1	39.14	145.61		12	50	6.5	733.3
4		4	4.75	145.72		13	2	19.8	727.6
5		6	30.47	145.84			14	27.4	721.8
6	3	8	56.31	145.96	+	13	26	29.2	+ 716.0
7		11	22.27	146.07			38	25.2	710.1
8		13	48.34	146.18		13	50	15.3	704.0
9		16	14.52	146.29		14	1	59.3	697.9
10		18	40.81	146.40			13	37.2	691.7
11		21	7.21	146.52			25	8.9	685.4
12	3	23	33.73	146.63	+	14	36	34.3	+ 679.1
13		26	0.36	146.73			47	53.4	672.6
14		28	27.09	146.84		14	59	6.0	666.1
15		30	53.93	146.95		15	10	12.1	659.6
16		33	20.88	147.06			21	11.7	652.9
17		35	47.94	147.17			32	4.6	646.1
18	3	38	15.11	147.26	+	15	42	50.7	+ 639.3
19		40	42.37	147.36		15	53	30.0	632.4
20		43	9.73	147.47		16	4	2.4	625.4
21		45	37.20	147.56			14	27.8	618.4
22		48	4.76	147.65			24	46.2	611.3
23		50	32.41	147.75			34	57.5	604.1
	4月 15日							
0	3	53	0.16	147.84	+	16	45	1.6	+ 596.9
1		55	28.00	147.93			16	54	58.5	589.6
2	3	57	55.93	148.02			17	4	48.1	582.2
3	4	0	23.95	148.10				14	30.3	574.8
4		2	52.05	148.19				24	5.1	567.4
5		5	20.24	148.26				33	32.5	559.8
6	4	7	48.50	148.34	+	17	42	52.3	+ 552.2
7		10	16.84	148.41			17	52	4.5	544.5
8		12	45.25	148.48			18	1	9.0	536.8
9		15	13.73	148.55				10	5.8	529.1
10		17	42.28	148.62				18	54.9	521.2
11		20	10.90	148.69				27	36.1	513.4
12	4	22	39.59	148.74	+	18	36	9.5	+ 505.5
13		25	8.33	148.80			44	35.0	497.5
14		27	37.13	148.85			18	52	52.5	489.5
15		30	5.98	148.90			19	1	2.0	481.4
16		32	34.88	148.95				9	3.4	473.3
17		35	3.83	148.99				16	56.7	465.2
18	4	37	32.82		+	19	24	41.9	+ 457.0
19		40	1.85	149.03			32	18.9	448.8
20		42	30.91	149.06			39	47.7	440.5
21		45	0.01	149.10			47	8.2	432.3
22		47	29.13	149.12		19	54	20.5	424.0
23		49	58.28	149.15		20	1	24.5	+ 415.5
24	4	52	27.45	149.17		+ 20	8	20.0	

4 月 16 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	4	52	27.45	149.18	+20	8	20.0	+407.2
1		54	56.63	149.20		15	7.2	398.8
2		57	25.83	149.20		21	46.0	390.3
3	4	59	55.04	149.21		28	16.3	381.9
4	5	2	24.24	149.20		34	38.2	373.4
5		4	53.45	149.21		40	51.6	364.8
				149.20				
6	5	7	22.65		+20	46	56.4	
7		9	51.84	149.19		52	52.7	+356.3
8		12	21.02	149.18	20	58	40.4	347.7
9		14	50.18	149.16	21	4	19.6	339.2
10		17	19.32	149.14		9	50.2	330.6
11		19	48.44	149.12		15	12.2	322.0
				149.08				313.3
12	5	22	17.52		+21	20	25.5	
13		24	46.56	149.04		25	30.2	+304.7
14		27	15.56	149.00		30	26.3	296.1
15		29	44.51	148.95		35	13.7	287.4
16		32	13.42	148.91		39	52.4	278.7
17		34	42.28	148.86		44	22.5	270.1
				148.80				261.5
18	5	37	11.08		+21	48	44.0	
19		39	39.82	148.74		52	56.7	+252.7
20		42	8.48	148.66	21	57	0.7	244.0
21		44	37.06	148.58	22	0	56.1	235.4
22		47	5.56	148.50		4	42.8	226.7
23		49	33.98	148.42		8	20.7	217.9
				148.34				209.3

4 月 17 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	5	52	2.32		+22	11	50.0	
1		54	30.57	148.25		15	10.6	+200.6
2		56	58.71	148.14		18	22.6	192.0
3	5	59	26.75	148.04		21	25.9	183.3
4	6	1	54.69	147.94		24	20.5	174.6
5		4	22.52	147.83		27	6.5	166.0
				147.70				157.4
6	6	6	50.22		+22	29	43.9	
7		9	17.80	147.58		32	12.7	+148.8
8		11	45.26	147.46		34	32.9	140.2
9		14	12.59	147.33		36	44.5	131.6
10		16	39.79	147.20		38	47.5	123.0
11		19	6.85	147.06		40	42.0	114.5
				146.91				105.9
12	6	21	33.76		+22	42	27.9	
13		24	0.52	146.76		44	5.3	+ 97.4
14		26	27.13	146.61		45	34.3	89.0
15		28	53.58	146.45		46	54.8	80.5
16		31	19.86	146.28		48	6.8	72.0
17		33	45.98	146.12		49	10.5	63.7
				145.95				55.2
18	6	36	11.93		+22	50	5.7	
19		38	37.70	145.77		50	52.6	+ 46.9
20		41	3.29	145.59		51	31.1	38.5
21		43	28.70	145.41		52	1.3	30.2
22		45	53.92	145.22		52	23.3	22.0
23		48	18.95	145.03		52	37.0	13.7
				144.82				+ 5.5

4 月 18 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	6	50	43.77		+22	52	42.5	
1		53	8.39	144.62		52	39.8	− 2.7
2		55	32.81	144.42		52	28.9	10.9
3	6	57	57.03	144.22		52	10.0	18.9
4	7	0	21.03	144.00		51	43.0	27.0
5		2	44.82	143.79		51	7.9	35.1
				143.56				43.1
6	7	5	8.38		+22	50	24.8	
7		7	31.72	143.34		49	33.8	− 51.0
8		9	54.83	143.11		48	34.9	58.9
9		12	17.71	142.88		47	28.1	66.8
10		14	40.36	142.65		46	13.5	74.6
11		17	2.77	142.41		44	51.0	82.5
12	7	19	24.94	142.17	+22	43	20.8	− 90.2

4 月 18 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	7	19	24.94		+22	43	20.8	
13		21	46.87	141.93		41	42.9	− 97.9
14		24	8.55	141.68		39	57.3	105.6
15		26	29.98	141.43		38	4.1	113.2
16		28	51.15	141.17		36	3.3	120.8
17		31	12.07	140.92		33	55.0	128.3
				140.66				135.8
18	7	33	32.73		+22	31	39.2	
19		35	53.13	140.40		29	16.0	− 143.2
20		38	13.26	140.13		26	45.4	150.6
21		40	33.13	139.87		24	7.5	157.9
22		42	52.73	139.60		21	22.2	165.3
23		45	12.06	139.33		18	29.6	172.6
				139.06				179.8

4 月 19 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	7	47	31.12		+22	15	29.8	
1		49	49.90	138.78		12	22.9	− 186.9
2		52	8.40	138.50		9	9.0	193.9
3		54	26.63	138.23		5	48.0	201.0
4		56	44.57	137.94	22	2	20.0	208.0
5	7	59	2.23	137.66	21	58	45.0	215.0
				137.37				221.9
6	8	1	19.60		+21	55	3.1	
7		3	36.69	137.09		51	14.4	− 228.7
8		5	53.49	136.80		47	19.0	235.4
9		8	10.00	136.51		43	16.8	242.2
10		10	26.22	136.22		39	7.9	248.9
11		12	42.14	135.92		34	52.3	255.6
				135.62				262.1
12	8	14	57.76		+21	30	30.2	
13		17	13.09	135.33		26	1.6	− 268.6
14		19	28.13	135.04		21	26.5	275.1
15		21	42.88	134.75		16	45.0	281.5
16		23	57.33	134.45		11	57.1	287.9
17		26	11.47	134.14		7	2.9	294.2
				133.84				300.4
18	8	28	25.31		+21	2	2.5	
19		30	38.86	133.55	20	56	55.9	− 306.6
20		32	52.10	133.24		51	43.1	312.8
21		35	5.04	132.94		46	24.2	318.9
22		37	17.68	132.64		40	59.4	324.8
23		39	30.02	132.34		35	28.6	330.8
				132.04				336.8

4 月 20 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	8	41	42.06		+20	29	51.8	
1		43	53.80	131.74		24	9.1	− 342.7
2		46	5.23	131.43		18	20.7	348.4
3		48	16.36	131.13		12	26.5	354.2
4		50	27.19	130.83		6	26.6	359.9
5		52	37.72	130.53	20	0	21.0	365.6
				130.22				371.1
6	8	54	47.94		+19	54	9.9	
7		56	57.87	129.93		47	53.2	− 376.7
8	8	59	7.49	129.62		41	31.0	382.2
9	9	1	16.82	129.33		35	3.4	387.6
10		3	25.84	129.02		28	30.4	393.0
11		5	34.57	128.73		21	52.1	398.3
				128.42				403.6
12	9	7	42.99		+19	15	8.5	
13		9	51.12	128.13		8	19.7	− 408.8
14		11	58.95	127.83	19	1	25.8	413.9
15		14	6.49	127.54	18	54	26.8	419.0
16		16	13.73	127.24		47	22.7	424.1
17		18	20.67	126.94		40	13.6	429.1
				126.65				434.0
18	9	20	27.32		+18	32	59.6	
19		22	33.68	126.36		25	40.7	− 438.9
20		24	39.75	126.07		18	17.0	443.7
21		26	45.53	125.78		10	48.5	448.5
22		28	51.02	125.49	18	3	15.2	453.3
23		30	56.23	125.21	17	55	37.3	457.9
24	9	33	1.15	124.92	+17	47	54.9	− 462.4

4 月 21 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	9	33	1.15		+17	47	54.9	
1		35	5.79	124.64		40	7.8	− 467.1
2		37	10.14	124.35		32	16.2	471.6
3		39	14.21	124.07		24	20.2	476.0
4		41	18.00	123.79		16	19.8	480.4
5		43	21.52	123.52		8	15.0	484.8
				123.24				489.2
6	9	45	24.76		+17	0	5.8	
7		47	27.72	122.96		16	51	52.4	− 493.4
8		49	30.40	122.68			43	34.9	497.5
9		51	32.82	122.42			35	13.2	501.7
10		53	34.97	122.15			26	47.4	505.8
11		55	36.85	121.88			18	17.5	509.9
				121.62					513.9
12	9	57	38.47		+16	9	43.6	
13	9	59	39.83	121.36		16	1	5.8	− 517.8
14	10	1	40.93	121.10		15	52	24.1	521.7
15		3	41.77	120.84			43	38.5	525.6
16		5	42.35	120.58			34	49.2	529.3
17		7	42.67	120.32			25	56.1	533.1
				120.07					536.8
18	10	9	42.74		+15	16	59.3	
19		11	42.56	119.82		15	7	58.8	− 540.5
20		13	42.14	119.58		14	58	54.7	544.1
21		15	41.47	119.33			49	47.1	547.6
22		17	40.55	119.08			40	36.0	551.1
23		19	39.40	118.85			31	21.4	554.6
				118.61					557.9

4 月 22 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	10	21	38.01		+14	22	3.5	
1		23	36.38	118.37		12	42.2	− 561.3
2		25	34.52	118.14		14	3	17.5	564.7
3		27	32.43	117.91		13	53	49.5	568.0
4		29	30.12	117.69			44	18.4	571.1
5		31	27.57	117.45			34	44.1	574.3
				117.23					577.4
6	10	33	24.80		+13	25	6.7	
7		35	21.81	117.01			15	26.2	− 580.5
8		37	18.60	116.79		13	5	42.7	583.5
9		39	15.19	116.59		12	55	56.2	586.5
10		41	11.56	116.37			46	6.7	589.5
11		43	7.71	116.15			36	14.3	592.4
				115.95					595.2
12	10	45	3.66		+12	26	19.1	
13		46	59.41	115.75			16	21.1	− 598.0
14		48	54.95	115.54		12	6	20.3	600.8
15		50	50.30	115.35		11	56	16.8	603.5
16		52	45.45	115.15			46	10.7	606.1
17		54	40.40	114.95			36	1.9	608.8
				114.76					611.4
18	10	56	35.16		+11	25	50.5	
19	10	58	29.74	114.58			15	36.6	− 613.9
20	11	0	24.14	114.40		11	5	20.2	616.4
21		2	18.35	114.21		10	55	1.4	618.8
22		4	12.38	114.03			44	40.1	621.3
23		6	6.24	113.86			34	16.5	623.6
				113.69					626.0

4 月 23 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	11	7	59.93		+10	23	50.5	
1		9	53.44	113.51		13	22.3	− 628.2
2		11	46.79	113.35		10	2	51.9	630.4
3		13	39.98	113.19		9	52	19.2	632.7
4		15	33.00	113.02			41	44.4	634.8
5		17	25.87	112.87			31	7.5	636.9
				112.70					639.0
6	11	19	18.57		+	9	20	28.5	
7		21	11.12	112.55		9	9	47.5	− 641.0
8		23	3.53	112.41		8	59	4.6	642.9
9		24	55.79	112.26			48	19.7	644.9
10		26	47.91	112.12			37	32.9	646.8
11		28	39.89	111.98			26	44.2	648.7
12	11	30	31.73	111.84	+	8	15	53.8	− 650.4

4 月 23 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	11	30	31.73		+	8	15	53.8	
13		32	23.44	111.71		8	5	1.6	− 652.2
14		34	15.01	111.57		7	54	7.6	654.0
15		36	6.45	111.44			43	11.9	655.7
16		37	57.77	111.32			32	14.6	657.3
17		39	48.97	111.20			21	15.6	659.0
				111.08					660.5
18	11	41	40.05		+	7	10	15.1	
19		43	31.02	110.97		6	59	13.1	− 662.0
20		45	21.87	110.85			48	9.6	663.5
21		47	12.61	110.74			37	4.6	665.0
22		49	3.24	110.63			25	58.2	666.4
23		50	53.78	110.54			14	50.4	667.8
				110.43					669.1

4 月 24 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	11	52	44.21		+	6	3	41.3	
1		54	34.54	110.33		5	52	30.9	− 670.4
2		56	24.78	110.24			41	19.3	671.6
3	11	58	14.93	110.15			30	6.4	672.9
4	12	0	4.99	110.06			18	52.4	674.0
5		1	54.97	109.98		5	7	37.3	675.1
				109.89					676.2
6	12	3	44.86		+	4	56	21.1	
7		5	34.68	109.82			45	3.8	− 677.3
8		7	24.42	109.74			33	45.5	678.3
9		9	14.09	109.67			22	26.2	679.3
10		11	3.69	109.60		4	11	6.0	680.2
11		12	53.23	109.54		3	59	44.9	681.1
				109.47					681.9
12	12	14	42.70		+	3	48	23.0	
13		16	32.11	109.41			37	0.2	− 682.8
14		18	21.46	109.35			25	35.6	683.6
15		20	10.76	109.30			14	12.3	684.3
16		22	0.01	109.25		3	2	47.3	685.0
17		23	49.21	109.20		2	51	21.7	685.6
				109.15					686.2
18	12	25	38.36		+	2	39	55.5	
19		27	27.48	109.12			28	28.7	− 686.8
20		29	16.56	109.08			17	1.3	687.4
21		31	5.60	109.04		2	5	33.4	687.9
22		32	54.61	109.01		1	54	5.1	688.3
23		34	43.59	108.98			42	36.4	688.7
				108.96					689.2

4 月 25 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	12	36	32.55		+	1	31	7.2	
1		38	21.49	108.94			19	37.7	− 689.5
2		40	10.41	108.92		1	8	7.9	689.8
3		41	59.30	108.89		0	56	37.8	690.1
4		43	48.18	108.88			45	7.5	690.3
5		45	37.06	108.88			33	37.0	690.5
				108.87					690.6
6	12	47	25.93		+	0	22	6.4	
7		49	14.79	108.86	+	0	10	35.7	− 690.7
8		51	3.65	108.86	−	0	0	55.1	690.8
9		52	52.52	108.87			12	26.0	690.9
10		54	41.38	108.86			23	56.8	690.8
11		56	30.25	108.87			35	27.6	690.8
				108.89					690.7
12	12	58	19.14		−	0	46	58.3	
13	13	0	8.04	108.90		0	58	28.9	− 690.6
14		1	56.96	108.92		1	9	59.3	690.4
15		3	45.90	108.94			21	29.5	690.2
16		5	34.86	108.96			32	59.5	690.0
17		7	23.85	108.99			44	29.2	689.7
				109.01					689.3
18	13	9	12.86		−	1	55	58.5	
19		11	1.91	109.05		2	7	27.5	− 689.0
20		12	50.99	109.08			18	56.1	688.6
21		14	40.12	109.13			30	24.2	688.1
22		16	29.28	109.16			41	51.9	687.7
23		18	18.49	109.21		2	53	19.1	687.2
24	13	20	7.74	109.25	−	3	4	45.7	− 686.6

世界時	赤經				赤緯				
			4 月	26 日					
h	h	m	s	s	°	′	″		″
0	13	20	7.74	109.30	− 3	4	45.7	−	686.0
1		21	57.04	109.36		16	11.7		685.3
2		23	46.40	109.41		27	37.0		684.7
3		25	35.81	109.47		39	1.7		683.9
4		27	25.28	109.54	3	50	25.6		683.2
5		29	14.82	109.59	4	1	48.8		682.3
6	13	31	4.41	109.66	− 4	13	11.1	−	681.5
7		32	54.07	109.74		24	32.6		680.6
8		34	43.81	109.81		35	53.2		679.7
9		36	33.62	109.88		47	12.9		678.7
10		38	23.50	109.97	4	58	31.6		677.7
11		40	13.47	110.05	5	9	49.3		676.6
12	13	42	3.52	110.13	− 5	21	5.9	−	675.5
13		43	53.65	110.21		32	21.4		674.4
14		45	43.86	110.31		43	35.8		673.3
15		47	34.17	110.41	5	54	49.1		672.0
16		49	24.58	110.50	6	6	1.1		670.7
17		51	15.08	110.60		17	11.8		669.4
18	13	53	5.68	110.70	− 6	28	21.2	−	668.1
19		54	56.38	110.80		39	29.3		666.7
20		56	47.18	110.91	6	50	36.0		665.3
21	13	58	38.09	111.02	7	1	41.3		663.8
22	14	0	29.11	111.13		12	45.1		662.3
23		2	20.24	111.25		23	47.4		660.6
			4 月	27 日					
0	14	4	11.49	111.37	− 7	34	48.0	−	659.1
1		6	2.86	111.48		45	47.1		657.5
2		7	54.34	111.61	7	56	44.6		655.8
3		9	45.95	111.73	8	7	40.4		654.0
4		11	37.68	111.86		18	34.4		652.3
5		13	29.54	112.00		29	26.7		650.4
6	14	15	21.54	112.13	− 8	40	17.1	−	648.6
7		17	13.67	112.26	8	51	5.7		646.6
8		19	5.93	112.41	9	1	52.3		644.7
9		20	58.34	112.55		12	37.0		642.8
10		22	50.89	112.69		23	19.8		640.7
11		24	43.58	112.83		34	0.5		638.5
12	14	26	36.41	112.98	− 9	44	39.0	−	636.4
13		28	29.39	113.14	9	55	15.4		634.3
14		30	22.53	113.29	10	5	49.7		632.1
15		32	15.82	113.44		16	21.8		629.8
16		34	9.26	113.61		26	51.6		627.5
17		36	2.87	113.76		37	19.1		625.1
18	14	37	56.63	113.93	−10	47	44.2	−	622.7
19		39	50.56	114.09	10	58	6.9		620.3
20		41	44.65	114.26	11	8	27.2		617.8
21		43	38.91	114.43		18	45.0		615.3
22		45	33.34	114.61		29	0.3		612.7
23		47	27.95	114.78		39	13.0		610.0
			4 月	28 日					
0	14	49	22.73	114.95	−11	49	23.0	−	607.4
1		51	17.68	115.13		59	30.4		604.6
2		53	12.81	115.32	12	9	35.0		601.9
3		55	8.13	115.50		19	36.9		599.1
4		57	3.63	115.68		29	36.0		596.2
5	14	58	59.31	115.87		39	32.2		593.3
6	15	0	55.18	116.06	−12	49	25.5	−	590.3
7		2	51.24	116.25		59	15.8		587.3
8		4	47.49	116.45	13	9	3.1		584.3
9		6	43.94	116.64		18	47.4		581.2
10		8	40.58	116.84		28	28.6		578.0
11		10	37.42	117.03		38	6.6		574.8
12	15	12	34.45	117.24	−13	47	41.4	−	571.6
13		14	31.69	117.44		57	13.0		568.3
14		16	29.13	117.65	14	6	41.3		565.0
15		18	26.78	117.84		16	6.3		561.5
16		20	24.62	118.05		25	27.8		558.2
17		22	22.67	118.26		34	46.0		554.7
18	15	24	20.93	118.48	−14	44	0.7	−	551.1
19		26	19.41	118.69	14	53	11.8		547.6
20		28	18.10	118.90	15	2	19.4		544.0
21		30	17.00	119.12		11	23.4		540.3
22		32	16.12	119.34		20	23.7		536.6
23		34	15.46	119.56		29	20.3		532.7
			4 月	29 日					
0	15	36	15.02	119.78	−15	38	13.0	−	528.9
1		38	14.80	120.00		47	1.9		525.1
2		40	14.80	120.22	15	55	47.0		521.2
3		42	15.02	120.44	16	4	28.2		517.2
4		44	15.46	120.67		13	5.4		513.2
5		46	16.13	120.89		21	38.6		509.1
6	15	48	17.02	121.12	−16	30	7.7	−	505.0
7		50	18.14	121.34		38	32.7		500.9
8		52	19.48	121.57		46	53.6		496.6
9		54	21.05	121.81	16	55	10.2		492.4
10		56	22.86	122.04	17	3	22.6		488.1
11	15	58	24.90	122.27		11	30.7		483.7
12	16	0	27.17	122.50	−17	19	34.4	−	479.3
13		2	29.67	122.74		27	33.7		474.8
14		4	32.41	122.97		35	28.5		470.3
15		6	35.38	123.21		43	18.8		465.8
16		8	38.59	123.44		51	4.6		461.2
17		10	42.03	123.67	17	58	45.8		456.5
18	16	12	45.70	123.92	−18	6	22.3	−	451.9
19		14	49.62	124.15		13	54.2		447.1
20		16	53.77	124.39		21	21.3		442.3
21		18	58.16	124.62		28	43.6		437.4
22		21	2.78	124.86		36	1.0		432.5
23		23	7.64	125.10		43	13.5		427.6
			4 月	30 日					
0	16	25	12.74	125.34	−18	50	21.1	−	422.6
1		27	18.08	125.58		57	23.7		417.5
2		29	23.66	125.82	19	4	21.2		412.5
3		31	29.48	126.06		11	13.7		407.3
4		33	35.54	126.29		18	1.0		402.2
5		35	41.83	126.53		24	43.2		396.9
6	16	37	48.36	126.77	−19	31	20.1	−	391.6
7		39	55.13	127.01		37	51.7		386.3
8		42	2.14	127.24		44	18.0		380.9
9		44	9.38	127.48		50	38.9		375.5
10		46	16.86	127.72	19	56	54.4		370.0
11		48	24.58	127.96	20	3	4.4		364.5
12	16	50	32.54	128.19	−20	9	8.9	−	358.9
13		52	40.73	128.42		15	7.8		353.3
14		54	49.15	128.66		21	1.1		347.6
15		56	57.81	128.90		26	48.7		341.9
16	16	59	6.71	129.13		32	30.6		336.2
17	17	1	15.84	129.36		38	6.8		330.4
18	17	3	25.20	129.58	−20	43	37.2	−	324.6
19		5	34.78	129.82		49	1.8		318.6
20		7	44.60	130.05		54	20.4		312.7
21		9	54.65	130.28	20	59	33.1		306.7
22		12	4.93	130.50	21	4	39.8		300.7
23		14	15.43	130.72		9	40.5		294.7
24	17	16	26.15		−21	14	35.2		

世界時	赤經				赤緯				
			5 月	1 日					
h	h	m	s	s	°	′	″		″
0	17	16	26.15	130.95	−21	14	35.2	−	288.6
1		18	37.10	131.17		19	23.8		282.3
2		20	48.27	131.40		24	6.1		276.2
3		22	59.67	131.61		28	42.3		270.0
4		25	11.28	131.83		33	12.3		263.7
5		27	23.11	132.05		37	36.0		257.4
6	17	29	35.16	132.26	−21	41	53.4	−	251.0
7		31	47.42	132.47		46	4.4		244.6
8		33	59.89	132.68		50	9.0		238.1
9		36	12.57	132.90		54	7.1		231.7
10		38	25.47	133.11	21	57	58.8		225.2
11		40	38.58	133.30	22	1	44.0		218.6
12	17	42	51.88	133.51	−22	5	22.6	−	211.9
13		45	5.39	133.71		8	54.5		205.3
14		47	19.10	133.91		12	19.8		198.7
15		49	33.01	134.10		15	38.5		191.9
16		51	47.11	134.30		18	50.4		185.2
17		54	1.41	134.49		21	55.6		178.4
18	17	56	15.90	134.69	−22	24	54.0	−	171.6
19	17	58	30.59	134.87		27	45.6		164.7
20	18	0	45.46	135.05		30	30.3		157.8
21		3	0.51	135.23		33	8.1		150.9
22		5	15.74	135.42		35	39.0		143.9
23		7	31.16	135.59		38	2.9		136.9
			5 月	2 日					
0	18	9	46.75	135.76	−22	40	19.8	−	129.9
1		12	2.51	135.94		42	29.7		122.9
2		14	18.45	136.11		44	32.6		115.8
3		16	34.56	136.27		46	28.4		108.6
4		18	50.83	136.44		48	17.0		101.4
5		21	7.27	136.59		49	58.4		94.2
6	18	23	23.86	136.75	−22	51	32.6	−	87.1
7		25	40.61	136.90		52	59.7		79.9
8		27	57.51	137.05		54	19.6		72.5
9		30	14.56	137.20		55	32.1		65.3
10		32	31.76	137.34		56	37.4		58.0
11		34	49.10	137.48		57	35.4		50.7
12	18	37	6.58	137.62	−22	58	26.1	−	43.3
13		39	24.20	137.76		59	9.4		35.9
14		41	41.96	137.89	22	59	45.3		28.4
15		43	59.85	138.02	23	0	13.7		21.0
16		46	17.87	138.14		0	34.7		13.6
17		48	36.01	138.26		0	48.3	−	6.1
18	18	50	54.27	138.38	−23	0	54.4	+	1.4
19		53	12.65	138.49		0	53.0		8.9
20		55	31.14	138.61		0	44.1		16.5
21	18	57	49.75	138.71		0	27.6		24.0
22	19	0	8.46	138.82	23	0	3.6		31.6
23		2	27.28	138.92	22	59	32.0		39.1
			5 月	3 日					
0	19	4	46.20	139.02	−22	58	52.9	+	46.8
1		7	5.22	139.11		58	6.1		54.4
2		9	24.33	139.21		57	11.7		62.1
3		11	43.54	139.29		56	9.6		69.6
4		14	2.83	139.38		55	0.0		77.3
5		16	22.21	139.45		53	42.7		84.9
6	19	18	41.66	139.53	−22	52	17.8	+	92.6
7		21	1.19	139.61		50	45.2		100.3
8		23	20.80	139.68		49	4.9		108.0
9		25	40.48	139.74		47	16.9		115.7
10		28	0.22	139.80		45	21.2		123.4
11		30	20.02	139.86		43	17.8		131.1
12	19	32	39.88		−22	41	6.7	+	138.8
			5 月	3 日					
12	19	32	39.88	139.92	−22	41	6.7	+	138.8
13		34	59.80	139.97		38	47.9		146.6
14		37	19.77	140.02		36	21.3		154.2
15		39	39.79	140.07		33	47.1		162.0
16		41	59.86	140.11		31	5.1		169.7
17		44	19.97	140.15		28	15.4		177.5
18	19	46	40.12	140.18	−22	25	17.9	+	185.1
19		49	0.30	140.21		22	12.8		192.9
20		51	20.51	140.24		18	59.9		200.6
21		53	40.75	140.27		15	39.3		208.3
22		56	1.02	140.29		12	11.0		216.0
23	19	58	21.31	140.32		8	35.0		223.7
			5 月	4 日					
0	20	0	41.63		−22	4	51.3	+	231.5
1		3	1.95	140.32		0	59.8		239.2
2		5	22.29	140.34	21	57	0.6		246.9
3		7	42.64	140.35		52	53.7		254.5
4		10	3.00	140.36		48	39.2		262.2
5		12	23.37	140.37		44	17.0		269.9
				140.36					
6	20	14	43.73	140.36	−21	39	47.1	+	277.6
7		17	4.09	140.36		35	9.5		285.2
8		19	24.45	140.35		30	24.3		292.8
9		21	44.80	140.34		25	31.5		300.4
10		24	5.14	140.32		20	31.1		308.0
11		26	25.46	140.31		15	23.1		315.6
12	20	28	45.77	140.29	−21	10	7.5	+	323.1
13		31	6.06	140.27		4	44.4		330.7
14		33	26.33	140.24	20	59	13.7		338.2
15		35	46.57	140.22		53	35.5		345.8
16		38	6.79	140.20		47	49.7		353.3
17		40	26.99	140.16		41	56.4		360.8
18	20	42	47.15	140.13	−20	35	55.6	+	368.2
19		45	7.28	140.09		29	47.4		375.6
20		47	27.37	140.06		23	31.8		383.0
21		49	47.43	140.01		17	8.8		390.4
22		52	7.44	139.97		10	38.4		397.7
23		54	27.41	139.93	20	4	0.7		405.1
			5 月	5 日					
0	20	56	47.34		−19	57	15.6	+	412.4
1	20	59	7.22	139.88		50	23.2		419.7
2	21	1	27.06	139.84		43	23.5		426.9
3		3	46.85	139.79		36	16.6		434.1
4		6	6.59	139.74		29	2.5		441.3
5		8	26.27	139.68		21	41.2		448.5
				139.63					
6	21	10	45.90	139.58	−19	14	12.7	+	455.6
7		13	5.48	139.52		6	37.1		462.6
8		15	25.00	139.46	18	58	54.5		469.8
9		17	44.46	139.40		51	4.7		476.7
10		20	3.86	139.35		43	8.0		483.8
11		22	23.21	139.28		35	4.2		490.7
12	21	24	42.49	139.22	−18	26	53.5	+	497.6
13		27	1.71	139.15		18	35.9		504.5
14		29	20.86	139.09		10	11.4		511.4
15		31	39.95	139.02	18	1	40.0		518.2
16		33	58.97	138.96	17	53	1.8		524.9
17		36	17.93	138.89		44	16.9		531.7
18	21	38	36.82	138.82	−17	35	25.2	+	538.4
19		40	55.64	138.75		26	26.8		544.9
20		43	14.39	138.68		17	21.9		551.5
21		45	33.07	138.62	17	8	10.4		558.1
22		47	51.69	138.55	16	58	52.3		564.6
23		50	10.24	138.47		49	27.7		571.1
24	21	52	28.71		−16	39	56.6	+	

5月 6日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	21	52	28.71	138.41	−16	39	56.6		+577.5
1		54	47.12	138.33		30	19.1		583.9
2		57	5.45	138.27		20	35.2		590.2
3	21	59	23.72	138.19		10	45.0		596.4
4	22	1	41.91	138.13	16	0	48.6		602.7
5		4	0.04	138.05	15	50	45.9		608.8
6	22	6	18.09		−15	40	37.1		+615.0
7		8	36.07	137.98		30	22.1		621.0
8		10	53.99	137.92		20	1.1		627.0
9		13	11.84	137.85	15	9	34.1		633.0
10		15	29.62	137.78	14	59	1.1		638.9
11		17	47.33	137.71		48	22.2		644.8
				137.64					
12	22	20	4.97		−14	37	37.4		+650.6
13		22	22.55	137.58		26	46.8		656.3
14		24	40.06	137.51		15	50.5		662.0
15		26	57.51	137.45	14	4	48.5		667.7
16		29	14.89	137.38	13	53	40.8		673.2
17		31	32.21	137.32		42	27.6		678.8
				137.25					
18	22	33	49.46		−13	31	8.8		+684.3
19		36	6.66	137.20		19	44.5		689.6
20		38	23.79	137.13	13	8	14.9		694.9
21		40	40.87	137.08	12	56	40.0		700.2
22		42	57.89	137.02		44	59.8		705.4
23		45	14.86	136.97		33	14.4		710.5
				136.90					

5月 7日

0	22	47	31.76	136.86	−12	21	23.9		+715.6
1		49	48.62	136.80	12	9	28.3		720.7
2		52	5.42	136.75	11	57	27.6		725.6
3		54	22.17	136.70		45	22.0		730.5
4		56	38.87	136.65		33	11.5		735.3
5	22	58	55.52	136.61		20	56.2		740.1
6	23	1	12.13		−11	8	36.1		+744.8
7		3	28.70	136.57	10	56	11.3		749.3
8		5	45.23	136.53		43	42.0		753.9
9		8	1.72	136.49		31	8.1		758.4
10		10	18.17	136.45		18	29.7		762.8
11		12	34.58	136.41	10	5	46.9		767.1
				136.38					
12	23	14	50.96		− 9	52	59.8		+771.4
13		17	7.30	136.34		40	8.4		775.6
14		19	23.61	136.31		27	12.8		779.7
15		21	39.90	136.29		14	13.1		783.7
16		23	56.16	136.26	9	1	9.4		787.7
17		26	12.40	136.24	8	48	1.7		791.6
				136.22					
18	23	28	28.62		− 8	34	50.1		+795.4
19		30	44.82	136.20		21	34.7		799.1
20		33	1.00	136.18	8	8	15.6		802.8
21		35	17.17	136.17	7	54	52.8		806.3
22		37	33.32	136.15		41	26.5		809.9
23		39	49.47	136.15		27	56.6		813.3
				136.15					

5月 8日

0	23	42	5.62		− 7	14	23.3		+816.7
1		44	21.76	136.14		7	0	46.6	819.9
2		46	37.89	136.13	6	47	6.7		823.0
3		48	54.03	136.14		33	23.7		826.1
4		51	10.18	136.15		19	37.6		829.1
5		53	26.33	136.15	6	5	48.5		832.1
				136.16					
6	23	55	42.49		− 5	51	56.4		+835.0
7	23	57	58.67	136.18		38	1.4		837.7
8	0	0	14.86	136.19		24	3.7		840.3
9		2	31.07	136.21	5	10	3.4		842.9
10		4	47.30	136.23	4	56	0.5		845.5
11		7	3.55	136.25		41	55.0		847.9
12	0	9	19.83	136.28	− 4	27	47.1		+850.1

5月 8日

12	0	9	19.83	136.31	− 4	27	47.1		+850.1
13		11	36.14	136.34	4	13	37.0		852.3
14		13	52.48	136.38	3	59	24.7		854.4
15		16	8.86	136.42		45	10.3		856.5
16		18	25.28	136.45		30	53.8		858.6
17		20	41.73	136.50		16	35.2		860.5
18	0	22	58.23		− 3	2	14.7		+862.2
19		25	14.78	136.55	2	47	52.5		863.8
20		27	31.38	136.60		33	28.7		865.4
21		29	48.03	136.65		19	3.3		866.9
22		32	4.74	136.71	2	4	36.4		868.3
23		34	21.51	136.77	1	50	8.1		869.6
				136.83					

5月 9日

0	0	36	38.34		− 1	35	38.5		+870.8
1		38	55.24	136.90		21	7.7		871.9
2		41	12.20	136.96	1	6	35.8		873.0
3		43	29.24	137.04	0	52	2.8		873.9
4		45	46.35	137.11		37	28.9		874.7
5		48	3.54	137.19		22	54.2		875.4
				137.27					
6	0	50	20.81		− 0	8	18.8		+876.1
7		52	38.16	137.35	+ 0	6	17.3		876.5
8		54	55.60	137.44		20	53.8		877.0
9		57	13.13	137.53		35	30.8		877.3
10	0	59	30.76	137.63	0	50	8.1		877.5
11	1	1	48.48	137.72	1	4	45.6		877.6
				137.82					
12	1	4	6.30		+ 1	19	23.2		+877.6
13		6	24.22	137.92		34	0.8		877.5
14		8	42.24	138.02	1	48	38.3		877.4
15		11	0.37	138.13	2	3	15.7		877.4
16		13	18.62	138.25		17	52.8		877.1
17		15	36.98	138.36		32	29.5		876.7
				138.47					
18	1	17	55.45		+ 2	47	5.7		876.2
19		20	14.05	138.60	3	1	41.3		+875.6
20		22	32.76	138.71		16	16.2		874.9
21		24	51.60	138.84		30	50.2		874.0
22		27	10.56	138.96		45	23.3		873.1
23		29	29.65	139.09	3	59	55.4		872.1
				139.23					871.0

5月 10日

0	1	31	48.88		+ 4	14	26.4		+869.8
1		34	8.24	139.36		28	56.2		868.4
2		36	27.74	139.50		43	24.6		866.9
3		38	47.38	139.64	4	57	51.5		865.4
4		41	7.16	139.78	5	12	16.9		863.7
5		43	27.09	139.93		26	40.6		861.9
				140.08					
6	1	45	47.17		+ 5	41	2.5		+860.1
7		48	7.40	140.23	5	55	22.6		858.1
8		50	27.78	140.38	6	9	40.7		855.9
9		52	48.32	140.54		23	56.6		853.7
10		55	9.01	140.69		38	10.3		851.4
11		57	29.87	140.86	6	52	21.7		849.1
				141.02					
12	1	59	50.89		+ 7	6	30.8		+846.5
13	2	2	12.07	141.18		20	37.3		843.9
14		4	33.42	141.35		34	41.2		841.1
15		6	54.93	141.51	7	48	42.3		838.3
16		9	16.60	141.67	8	2	40.6		835.3
17		11	38.45	141.85		16	35.9		832.2
				142.03					
18	2	14	0.48		+ 8	30	28.1		+829.0
19		16	22.68	142.20		44	17.1		825.8
20		18	45.06	142.38	8	58	2.9		822.4
21		21	7.61	142.55	9	11	45.3		818.8
22		23	30.34	142.73		25	24.1		815.2
23		25	53.26	142.92		38	59.3		811.5
24	2	28	16.36	143.10	+ 9	52	30.8		

5月 11日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	2	28	16.36	143.28	+ 9	52	30.8		+807.7
1		30	39.64	143.46	10	5	58.5		803.7
2		33	3.10	143.65		19	22.2		799.7
3		35	26.75	143.83		32	41.9		795.5
4		37	50.58	144.02		45	57.4		791.3
5		40	14.60	144.21	10	59	8.7		787.0
6	2	42	38.81		+11	12	15.7		+782.5
7		45	3.21	144.40		25	18.2		777.9
8		47	27.80	144.59		38	16.1		773.2
9		49	52.57	144.77	11	51	9.3		768.5
10		52	17.54	144.97	12	3	57.8		763.6
11		54	42.70	145.16		16	41.4		758.6
				145.35					
12	2	57	8.05		+12	29	20.0		+753.5
13	2	59	33.59	145.54		41	53.5		748.3
14	3	1	59.32	145.73	12	54	21.8		743.0
15		4	25.24	145.92	13	6	44.8		737.7
16		6	51.35	146.11		19	2.5		732.2
17		9	17.65	146.30		31	14.7		726.6
				146.50					
18	3	11	44.15		+13	43	21.3		+720.9
19		14	10.83	146.68	13	55	22.2		715.1
20		16	37.70	146.87	14	7	17.3		709.2
21		19	4.76	147.06		19	6.5		703.3
22		21	32.00	147.24		30	49.8		697.2
23		23	59.43	147.43		42	27.0		691.0
				147.62					

5月 12日

0	3	26	27.05		+14	53	58.0		+684.7
1		28	54.85	147.80	15	5	22.7		678.4
2		31	22.83	147.98		16	41.1		672.0
3		33	50.99	148.16		27	53.1		665.5
4		36	19.33	148.34		38	58.6		658.8
5		38	47.85	148.52	15	49	57.4		652.0
				148.69					
6	3	41	16.54		+16	0	49.4		+645.3
7		43	45.40	148.86		11	34.7		638.5
8		46	14.44	149.04		22	13.2		631.5
9		48	43.65	149.21		32	44.7		624.4
10		51	13.03	149.38		43	9.1		617.3
11		53	42.57	149.54	16	53	26.4		610.0
				149.70					
12	3	56	12.27		+17	3	36.4		+602.8
13	3	58	42.14	149.87		13	39.2		595.4
14	4	1	12.16	150.02		23	34.6		588.0
15		3	42.33	150.17		33	22.6		580.5
16		6	12.66	150.33		43	3.1		572.8
17		8	43.14	150.48	17	52	35.9		565.2
				150.61					
18	4	11	13.75		+18	2	1.1		+557.5
19		13	44.50	150.75		11	18.6		549.7
20		16	15.39	150.89		20	28.3		541.7
21		18	46.42	151.03		29	30.0		533.8
22		21	17.58	151.16		38	23.8		525.8
23		23	48.87	151.29		47	9.6		517.8
				151.41					

5月 13日

0	4	26	20.28		+18	55	47.4		+509.6
1		28	51.81	151.53	19	4	17.0		501.4
2		31	23.45	151.64		12	38.4		493.2
3		33	55.20	151.75		20	51.6		484.8
4		36	27.06	151.86		28	56.4		476.5
5		38	59.02	151.96		36	52.9		468.0
				152.06					
6	4	41	31.08		+19	44	40.9		+459.6
7		44	3.23	152.15		52	20.5		451.0
8		46	35.46	152.23	19	59	51.5		442.5
9		49	7.77	152.31	20	7	14.0		433.9
10		51	40.16	152.39		14	27.9		425.3
11		54	12.62	152.46		21	33.2		416.5
12	4	56	45.15	152.53	+20	28	29.7		

5月 13日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
12	4	56	45.15		+20	28	29.7		+407.7
13	4	59	17.74	152.59		35	17.4		398.9
14	5	1	50.39	152.65		41	56.3		390.1
15		4	23.09	152.70		48	26.4		381.3
16		6	55.84	152.75	20	54	47.7		372.4
17		9	28.62	152.78	21	1	0.1		363.4
				152.82					
18	5	12	1.44		+21	7	3.5		+354.5
19		14	34.29	152.85		12	58.0		345.5
20		17	7.16	152.87		18	43.5		336.5
21		19	40.04	152.88		24	20.0		327.4
22		22	12.94	152.90		29	47.4		318.3
23		24	45.85	152.91		35	5.7		309.3
				152.90					

5月 14日

0	5	27	18.75		+21	40	15.0		+300.2
1		29	51.65	152.90		45	15.2		291.0
2		32	24.53	152.88		50	6.2		281.9
3		34	57.39	152.86		54	48.1		272.8
4		37	30.23	152.84	21	59	20.9		263.6
5		40	3.04	152.81	22	3	44.5		254.4
				152.76					
6	5	42	35.80		+22	7	58.9		+245.2
7		45	8.52	152.72		12	4.1		236.0
8		47	41.19	152.67		16	0.1		226.8
9		50	13.80	152.61		19	46.9		217.7
10		52	46.36	152.56		23	24.6		208.5
11		55	18.85	152.49		26	53.1		199.3
				152.40					
12	5	57	51.25		+22	30	12.4		+190.0
13	6	0	23.57	152.32		33	22.4		180.8
14		2	55.81	152.24		36	23.2		171.6
15		5	27.95	152.14		39	14.8		162.5
16		7	59.99	152.04		41	57.3		153.4
17		10	31.92	151.93		44	30.7		144.2
				151.82					
18	6	13	3.74		+22	46	54.9		+135.0
19		15	35.44	151.70		49	9.9		125.9
20		18	7.01	151.57		51	15.8		116.9
21		20	38.45	151.44		53	12.7		107.7
22		23	9.75	151.30		55	0.4		98.6
23		25	40.91	151.16		56	39.0		89.6
				151.00					

5月 15日

0	6	28	11.91		+22	58	8.6		+ 80.6
1		30	42.76	150.85	22	59	29.2		71.6
2		33	13.44	150.68	23	0	40.8		62.5
3		35	43.96	150.52		1	43.3		53.5
4		38	14.30	150.34		2	36.8		44.6
5		40	44.46	150.16		3	21.4		35.8
				149.98					
6	6	43	14.44		+23	3	57.2		+ 27.0
7		45	44.22	149.78		4	24.2		18.2
8		48	13.80	149.58		4	42.4		9.3
9		50	43.18	149.38		4	51.7		+ 0.5
10		53	12.36	149.18		4	52.2		− 8.2
11		55	41.32	148.96		4	44.0		16.9
				148.74					
12	6	58	10.06		+23	4	27.1		− 25.6
13	7	0	38.57	148.51		4	1.5		34.1
14		3	6.86	148.29		3	27.4		42.7
15		5	34.92	148.06		2	44.7		51.2
16		8	2.73	147.81		1	53.5		59.7
17		10	30.30	147.57	23	0	53.8		68.1
				147.31					
18	7	12	57.61		+22	59	45.7		− 76.5
19		15	24.67	147.06		58	29.2		84.8
20		17	51.48	146.81		57	4.4		93.1
21		20	18.02	146.54		55	31.3		101.3
22		22	44.30	146.28		53	50.0		109.6
23		25	10.31	146.01		52	0.4		
24	7	27	36.04	145.73	+22	50	2.7		−117.7

世界時	赤經			赤緯			
	5 月 16 日						
h	h	m	s	s	°	′	″	″
0	7	27	36.04	145.45	+22	50	2.7	−125.7
1		30	1.49	145.16		47	57.0	133.8
2		32	26.65	145.15		45	43.2	141.8
3		34	51.53	144.88		43	21.4	149.7
4		37	16.12	144.59		40	51.7	157.6
5		39	40.41	144.29		38	14.1	165.4
				143.99				
6	7	42	4.40		+22	35	28.7	−173.1
7		44	28.09	143.69		32	35.6	180.8
8		46	51.47	143.38		29	34.8	188.5
9		49	14.55	143.08		26	26.3	196.1
10		51	37.32	142.77		23	10.2	203.6
11		53	59.77	142.45		19	46.6	211.0
				142.14				
12	7	56	21.91		+22	16	15.6	−218.4
13	7	58	43.73	141.82		12	37.2	225.8
14	8	1	5.22	141.49		8	51.4	233.1
15		3	26.39	141.17		4	58.3	240.2
16		5	47.24	140.85	22	0	58.1	247.4
17		8	7.76	140.52	21	56	50.7	254.6
				140.18				
18	8	10	27.94		+21	52	36.1	−261.6
19		12	47.79	139.85		48	14.5	268.5
20		15	7.30	139.51		43	46.0	275.4
21		17	26.48	139.18		39	10.6	282.3
22		19	45.32	138.84		34	28.3	289.1
23		22	3.82	138.50		29	39.2	295.8
				138.16				
	5 月 17 日							
0	8	24	21.98		+21	24	43.4	−302.5
1		26	39.80	137.82		19	40.9	309.0
2		28	57.27	137.47		14	31.9	315.5
3		31	14.40	137.13		9	16.4	322.0
4		33	31.18	136.78	21	3	54.4	328.4
5		35	47.62	136.44	20	58	26.0	334.7
				136.09				
6	8	38	3.71		+20	52	51.3	−341.0
7		40	19.45	135.74		47	10.3	347.1
8		42	34.85	135.40		41	23.2	353.3
9		44	49.89	135.04		35	29.9	359.3
10		47	4.59	134.70		29	30.6	365.4
11		49	18.94	134.35		23	25.2	371.3
				134.00				
12	8	51	32.94		+20	17	13.9	−377.2
13		53	46.59	133.65		10	56.7	383.0
14		55	59.89	133.30	20	4	33.7	388.7
15	8	58	12.84	132.95	19	58	5.0	394.4
16	9	0	25.44	132.60		51	30.6	400.0
17		2	37.69	132.25		44	50.6	405.6
				131.91				
18	9	4	49.60		+19	38	5.0	−411.1
19		7	1.16	131.56		31	13.9	416.4
20		9	12.38	131.22		24	17.5	421.8
21		11	23.25	130.87		17	15.7	427.2
22		13	33.77	130.52		10	8.5	432.4
23		15	43.95	130.18	19	2	56.1	437.6
				129.84				
	5 月 18 日							
0	9	17	53.79		+18	55	38.5	−442.7
1		20	3.29	129.50		48	15.8	447.7
2		22	12.44	129.15		40	48.1	452.7
3		24	21.26	128.82		33	15.4	457.6
4		26	29.74	128.48		25	37.8	462.5
5		28	37.89	128.15		17	55.3	467.3
				127.81				
6	9	30	45.70		+18	10	8.0	−472.0
7		32	53.18	127.48		18	2	16.0	476.7
8		35	0.32	127.14		17	54	19.3	481.3
9		37	7.13	126.81			46	18.0	485.9
10		39	13.61	126.48			38	12.1	490.4
11		41	19.77	126.16			30	1.7	494.7
12	9	43	25.60	125.83	+17	21	47.0	−499.2

世界時	赤經			赤緯			
	5 月 18 日						
h	h	m	s	s	°	′	″	″
12	9	43	25.60	125.51	+17	21	47.0	−499.2
13		45	31.11	125.19		13	27.8	503.5
14		47	36.30	124.87	17	5	4.3	507.8
15		49	41.17	124.55	16	56	36.5	512.0
16		51	45.72	124.24		48	4.5	516.1
17		53	49.96	123.92		39	28.4	520.1
18	9	55	53.88	123.62	+16	30	48.3	−524.2
19	9	57	57.50	123.31		22	4.1	528.2
20	10	0	0.81	123.01		13	15.9	532.1
21		2	3.82	122.70	16	4	23.8	536.0
22		4	6.52	122.41	15	55	27.8	539.8
23		6	8.93	122.10		46	28.0	543.5
	5 月 19 日							
0	10	8	11.03		+15	37	24.5	−547.2
1		10	12.85	121.82		28	17.3	550.9
2		12	14.37	121.52		19	6.4	554.5
3		14	15.60	121.23		9	51.9	558.0
4		16	16.54	120.94	15	0	33.9	561.4
5		18	17.20	120.66	14	51	12.5	564.9
				120.37				
6	10	20	17.57		+14	41	47.6	−568.3
7		22	17.67	120.10		32	19.3	571.6
8		24	17.49	119.82		22	47.7	574.8
9		26	17.04	119.55		13	12.9	578.1
10		28	16.32	119.28	14	3	34.8	581.3
11		30	15.34	119.02	13	53	53.5	584.4
				118.75				
12	10	32	14.09		+13	44	9.1	−587.5
13		34	12.58	118.49		34	21.6	590.4
14		36	10.81	118.23		24	31.2	593.4
15		38	8.79	117.98		14	37.8	596.4
16		40	6.51	117.72	13	4	41.4	599.3
17		42	3.99	117.48	12	54	42.1	602.0
				117.23				
18	10	44	1.22		+12	44	40.1	−604.8
19		45	58.22	117.00		34	35.3	607.6
20		47	54.97	116.75		24	27.7	610.3
21		49	51.49	116.52		14	17.4	612.9
22		51	47.77	116.28	12	4	4.5	615.4
23		53	43.83	116.06	11	53	49.1	618.0
				115.83				
	5 月 20 日							
0	10	55	39.66		+11	43	31.1	−620.5
1		57	35.27	115.61		33	10.6	622.9
2	10	59	30.66	115.39		22	47.7	625.4
3	11	1	25.84	115.18		12	22.3	627.7
4		3	20.80	114.96	11	1	54.6	630.0
5		5	15.55	114.75	10	51	24.6	632.3
				114.55				
6	11	7	10.10		+10	40	52.3	−634.5
7		9	4.45	114.35		30	17.8	636.7
8		10	58.60	114.15		19	41.1	638.8
9		12	52.55	113.95	10	9	2.3	640.8
10		14	46.31	113.76	9	58	21.5	642.9
11		16	39.88	113.57		47	38.6	645.0
				113.38				
12	11	18	33.26		+ 9	36	53.6	−646.9
13		20	26.47	113.21		26	6.7	648.8
14		22	19.50	113.03		15	17.9	650.7
15		24	12.35	112.85	9	4	27.2	652.5
16		26	5.03	112.68	8	53	34.7	654.4
17		27	57.55	112.52		42	40.3	656.1
				112.35				
18	11	29	49.90		+ 8	31	44.2	−657.8
19		31	42.09	112.19		20	46.4	659.5
20		33	34.12	112.03	8	9	46.9	661.2
21		35	26.00	111.88	7	58	45.7	662.7
22		37	17.73	111.73		47	43.0	664.3
23		39	9.32	111.59		36	38.7	665.8
24	11	41	0.77	111.45	+ 7	25	32.9	−

世界時	赤經			赤緯			
	5 月 21 日						
h	h	m	s	s	°	′	″	″
0	11	41	0.77		+ 7	25	32.9	−667.2
1		42	52.08	111.31		14	25.7	668.6
2		44	43.25	111.17	7	3	17.1	670.1
3		46	34.28	111.03	6	52	7.0	671.4
4		48	25.19	110.91		40	55.6	672.8
5		50	15.98	110.79		29	42.8	674.0
				110.66				
6	11	52	6.64		+ 6	18	28.8	−675.3
7		53	57.19	110.55		6	7	13.5	676.4
8		55	47.62	110.43	5	55	57.1	677.6
9		57	37.94	110.32		44	39.5	678.8
10	11	59	28.16	110.22		33	20.7	679.9
11	12	1	18.28	110.12		22	0.8	680.9
				110.01				
12	12	3	8.29		+ 5	10	39.9	−681.8
13		4	58.21	109.92	4	59	18.1	682.8
14		6	48.03	109.82		47	55.3	683.7
15		8	37.77	109.74		36	31.6	684.7
16		10	27.42	109.65		25	6.9	685.6
17		12	16.99	109.57		13	41.3	686.3
				109.49				
18	12	14	6.48		+ 4	2	15.0	−687.1
19		15	55.90	109.42	3	50	47.9	687.9
20		17	45.23	109.33		39	20.0	688.6
21		19	34.51	109.28		27	51.4	689.2
22		21	23.73	109.22		16	22.2	689.9
23		23	12.89	109.16	3	4	52.3	690.5
				109.09				
	5 月 22 日							
0	12	25	1.98		+ 2	53	21.8	−691.0
1		26	51.03	109.05		41	50.8	691.6
2		28	40.02	108.99		30	19.2	692.1
3		30	28.97	108.95		18	47.1	692.5
4		32	17.87	108.90	2	7	14.6	692.9
5		34	6.74	108.87	1	55	41.7	693.3
				108.83				
6	12	35	55.57		+ 1	44	8.4	−693.7
7		37	44.37	108.80		32	34.7	693.9
8		39	33.13	108.76		21	0.8	694.2
9		41	21.87	108.74	1	9	26.6	694.4
10		43	10.59	108.72	0	57	52.2	694.6
11		44	59.30	108.71		46	17.6	694.8
				108.69				
12	12	46	47.99	108.68	+ 0	34	42.8	−694.9
13		48	36.67	108.67		23	7.9	695.0
14		50	25.34	108.67	+ 0	11	32.9	695.0
15		52	14.01	108.67	− 0	0	2.1	695.0
16		54	2.68	108.66		11	37.1	695.0
17		55	51.34	108.67		23	12.1	694.9
18	12	57	40.01	108.68	− 0	34	47.0	−694.9
19	12	59	28.69	108.70		46	21.9	694.7
20	13	1	17.39	108.72	0	57	56.6	694.5
21		3	6.11	108.73	1	9	31.1	694.2
22		4	54.84	108.76		21	5.3	694.0
23		6	43.60	108.78		32	39.3	693.8
	5 月 23 日							
0	13	8	32.38		− 1	44	13.1	−693.5
1		10	21.19	108.81	1	55	46.6	693.0
2		12	10.04	108.85	2	7	19.6	692.6
3		13	58.93	108.89		18	52.2	692.2
4		15	47.86	108.93		30	24.4	691.7
5		17	36.83	108.97		41	56.1	691.2
				109.01				
6	13	19	25.84	109.06	− 2	53	27.3	−690.7
7		21	14.90	109.12	3	4	58.0	690.1
8		23	4.02	109.18		16	28.1	689.4
9		24	53.20	109.23		27	57.5	688.7
10		26	42.43	109.30		39	26.2	688.1
11		28	31.73	109.36	3	50	54.3	−687.3
12	13	30	21.09		− 4	2	21.6	

世界時	赤經			赤緯			
	5 月 23 日						
h	h	m	s	s	°	′	″	″
12	13	30	21.09	109.43	− 4	2	21.6	−686.5
13		32	10.52	109.51		13	48.1	685.7
14		34	0.03	109.59		25	13.8	684.8
15		35	49.62	109.67		36	38.6	684.0
16		37	39.29	109.75		48	2.6	683.0
17		39	29.04	109.83	4	59	25.6	682.0
18	13	41	18.87		− 5	10	47.6	−680.9
19		43	8.79	109.92		22	8.5	679.9
20		44	58.81	110.02		33	28.4	678.8
21		46	48.93	110.12		44	47.2	677.7
22		48	39.14	110.21	5	56	4.9	676.5
23		50	29.45	110.31	6	7	21.4	675.3
				110.42				
	5 月 24 日							
0	13	52	19.87		− 6	18	36.7	−674.0
1		54	10.40	110.53		29	50.7	672.7
2		56	1.04	110.64		41	3.4	671.3
3		57	51.79	110.75	6	52	14.7	669.9
4	13	59	42.66	110.87	7	3	24.6	668.5
5	14	1	33.65	110.99		14	33.1	667.1
				111.11				
6	14	3	24.76		− 7	25	40.2	−665.5
7		5	16.00	111.24		36	45.7	663.9
8		7	7.37	111.37		47	49.6	662.4
9		8	58.87	111.50	7	58	52.0	660.7
10		10	50.51	111.64	8	9	52.7	659.0
11		12	42.29	111.78		20	51.7	657.3
				111.92				
12	14	14	34.21		− 8	31	49.0	−655.6
13		16	26.27	112.06		42	44.6	653.7
14		18	18.47	112.20	8	53	38.3	651.9
15		20	10.83	112.36	9	4	30.2	649.9
16		22	3.34	112.51		15	20.1	648.0
17		23	56.01	112.67		26	8.1	646.0
				112.82				
18	14	25	48.83		− 9	36	54.1	−643.9
19		27	41.82	112.99		47	38.0	641.9
20		29	34.97	113.15	9	58	19.9	639.8
21		31	28.29	113.32	10	8	59.7	637.6
22		33	21.77	113.48		19	37.3	635.3
23		35	15.43	113.66		30	12.6	633.1
				113.83				
	5 月 25 日							
0	14	37	9.26		−10	40	45.7	−630.8
1		39	3.27	114.01	10	51	16.5	628.4
2		40	57.46	114.19	11	1	44.9	626.0
3		42	51.83	114.37		12	10.9	623.6
4		44	46.38	114.55		22	34.5	621.1
5		46	41.12	114.74		32	55.6	618.5
				114.93				
6	14	48	36.05		−11	43	14.1	−615.9
7		50	31.17	115.12	11	53	30.0	613.3
8		52	26.49	115.32	12	3	43.3	610.6
9		54	22.01	115.52		13	53.9	607.9
10		56	17.72	115.71		24	1.8	605.1
11	14	58	13.64	115.92		34	6.9	602.3
				116.12				
12	15	0	9.76		−12	44	9.2	−599.3
13		2	6.08	116.32	12	54	8.5	596.4
14		4	2.60	116.52	13	4	4.9	593.5
15		5	59.34	116.74		13	58.4	590.5
16		7	56.30	116.96		23	48.9	587.4
17		9	53.46	117.16		33	36.3	584.2
				117.38				
18	15	11	50.84		−13	43	20.5	−581.1
19		13	48.45	117.61	13	53	1.6	577.8
20		15	46.27	117.82	14	2	39.4	574.6
21		17	44.31	118.04		12	14.0	571.2
22		19	42.58	118.27		21	45.2	567.9
23		21	41.07	118.49		31	13.1	564.4
24	15	23	39.78	118.71	−14	40	37.5	

世界時	赤經			赤緯			
	5 月 26 日						
h	h	m	s	s	°	′	″	″
0	15	23	39.78	118.94	−14	40	37.5	−561.0
1		25	38.72	119.18		49	58.5	557.4
2		27	37.90	119.41	14	59	15.9	553.8
3		29	37.31	119.65	15	8	29.7	550.2
4		31	36.96	119.88		17	39.9	546.5
5		33	36.84	120.11		26	46.4	542.8
6	15	35	36.95		−15	35	49.2	
7		37	37.31	120.36		44	48.2	−539.0
8		39	37.91	120.60	15	53	43.3	535.1
9		41	38.75	120.84	16	2	34.6	531.3
10		43	39.83	121.08		11	21.9	527.3
11		45	41.15	121.32		20	5.2	523.3
				121.57				519.3
12	15	47	42.72		−16	28	44.5	
13		49	44.53	121.81		37	19.7	−515.2
14		51	46.59	122.06		45	50.7	511.0
15		53	48.89	122.30	16	54	17.5	506.8
16		55	51.44	122.55	17	2	40.1	502.6
17		57	54.24	122.80		10	58.4	498.3
				123.06				493.9
18	15	59	57.30		−17	19	12.3	
19	16	2	0.61	123.31		27	21.7	−489.4
20		4	4.17	123.56		35	26.7	485.0
21		6	7.98	123.81		43	27.2	480.5
22		8	12.04	124.06		51	23.1	475.9
23		10	16.36	124.32	17	59	14.4	471.3
				124.57				466.6
	5 月 27 日							
0	16	12	20.93		−18	7	1.0	
1		14	25.76	124.83		14	42.9	−461.9
2		16	30.84	125.08		22	20.0	457.1
3		18	36.17	125.33		29	52.3	452.3
4		20	41.76	125.59		37	19.6	447.3
5		22	47.60	125.84		44	42.0	442.4
				126.10				437.3
6	16	24	53.70		−18	51	59.3	
7		27	0.05	126.35		18	59	11.6	−432.3
8		29	6.66	126.61		19	6	18.8	427.2
9		31	13.52	126.86			13	20.9	422.1
10		33	20.64	127.12			20	17.8	416.9
11		35	28.01	127.37			27	9.5	411.7
				127.62					406.3
12	16	37	35.63		−19	33	55.8	
13		39	43.50	127.87			40	36.8	−401.0
14		41	51.63	128.13			47	12.3	395.5
15		44	0.01	128.38		19	53	42.4	390.1
16		46	8.65	128.64		20	0	6.9	384.5
17		48	17.54	128.89			6	25.9	379.0
				129.14					373.3
18	16	50	26.68		−20	12	39.2	
19		52	36.06	129.38			18	46.9	−367.7
20		54	45.69	129.63			24	48.8	361.9
21		56	55.57	129.88			30	45.0	356.2
22	16	59	5.69	130.12			36	35.3	350.3
23	17	1	16.06	130.37			42	19.8	344.5
				130.60					338.5
	5 月 28 日							
0	17	3	26.66		−20	47	58.3	
1		5	37.51	130.85		53	30.9	−332.6
2		7	48.60	131.09	20	58	57.5	326.6
3		9	59.93	131.33	21	4	18.0	320.5
4		12	11.49	131.56		9	32.4	314.4
5		14	23.29	131.80		14	40.7	308.3
				132.04				302.1
6	17	16	35.33		−21	19	42.8	
7		18	47.60	132.27		24	38.6	−295.8
8		21	0.09	132.49		29	28.1	289.5
9		23	12.81	132.72		34	11.2	283.1
10		25	25.75	132.94		38	47.9	276.7
11		27	38.92	133.17		43	18.2	270.3
12	17	29	52.31	133.39	−21	47	42.1	−263.9

世界時	赤經			赤緯			
	5 月 28 日						
h	h	m	s	s	°	′	″	″
12	17	29	52.31	133.61	−21	47	42.1	−257.4
13		32	5.92	133.82		51	59.5	250.7
14		34	19.74	134.04	21	56	10.2	244.1
15		36	33.78	134.25	22	0	14.3	237.5
16		38	48.03	134.46		4	11.8	230.8
17		41	2.49	134.66		8	2.6	224.0
18	17	43	17.15		−22	11	46.6	
19		45	32.02	134.87		15	23.9	−217.3
20		47	47.08	135.06		18	54.3	210.4
21		50	2.35	135.27		22	17.9	203.6
22		52	17.81	135.46		25	34.6	196.7
23		54	33.47	135.66		28	44.4	189.8
				135.84				182.8
	5 月 29 日							
0	17	56	49.31		−22	31	47.2	
1	17	59	5.34	136.03		34	43.0	−175.8
2	18	1	21.54	136.20		37	31.8	168.8
3		3	37.93	136.39		40	13.5	161.7
4		5	54.50	136.57		42	48.0	154.5
5		8	11.24	136.74		45	15.4	147.4
				136.91				140.3
6	18	10	28.15		−22	47	35.7	
7		12	45.22	137.07		49	48.8	−133.1
8		15	2.45	137.23		51	54.6	125.8
9		17	19.85	137.40		53	53.1	118.5
10		19	37.40	137.55		55	44.3	111.2
11		21	55.10	137.70		57	28.2	103.9
				137.84				96.6
12	18	24	12.94		−22	59	4.8	
13		26	30.93	137.99	23	0	34.0	− 89.2
14		28	49.06	138.13		1	55.8	81.8
15		31	7.32	138.26		3	10.1	74.3
16		33	25.72	138.40		4	16.9	66.8
17		35	44.25	138.53		5	16.3	59.4
				138.64				51.9
18	18	38	2.89		−23	6	8.2	
19		40	21.66	138.77		6	52.5	− 44.3
20		42	40.55	138.89		7	29.3	36.8
21		44	59.55	139.00		7	58.5	29.2
22		47	18.65	139.10		8	20.1	21.6
23		49	37.86	139.21		8	34.1	− 14.0
				139.31				6.4
	5 月 30 日							
0	18	51	57.17		−23	8	40.5	
1		54	16.57	139.40		8	39.2	+ 1.3
2		56	36.07	139.50		8	30.2	9.0
3	18	58	55.66	139.59		8	13.6	16.6
4	19	1	15.32	139.66		7	49.4	24.2
5		3	35.07	139.75		7	17.5	31.9
				139.82				39.7
6	19	5	54.89		−23	6	37.8	
7		8	14.78	139.89		5	50.4	+ 47.4
8		10	34.73	139.95		4	55.3	55.1
9		12	54.75	140.02		3	52.4	62.9
10		15	14.83	140.08		2	41.8	70.6
11		17	34.96	140.13		1	23.4	78.4
				140.18				86.2
12	19	19	55.14		−22	59	57.2	
13		22	15.37	140.23		58	23.3	+ 93.9
14		24	35.63	140.26		56	41.6	101.7
15		26	55.93	140.30		54	52.2	109.4
16		29	16.27	140.34		52	55.0	117.2
17		31	36.64	140.37		50	50.0	125.0
				140.38				132.7
18	19	33	57.02		−22	48	37.3	
19		36	17.42	140.40		46	16.8	+ 140.5
20		38	37.84	140.42		43	48.6	148.2
21		40	58.28	140.44		41	12.6	156.0
22		43	18.73	140.45		38	28.8	163.8
23		45	39.18	140.45		35	37.2	171.6
24	19	47	59.63	140.45	−22	32	37.9	+ 179.3

世界時	赤經			赤緯			
	5 月 31 日						
h	h	m	s	s	°	′	″	″
0	19	47	59.63	140.44	−22	32	37.9	+ 187.0
1		50	20.07	140.44		29	30.9	194.8
2		52	40.51	140.44		26	16.1	202.5
3		55	0.95	140.44		22	53.6	210.3
4		57	21.36	140.41		19	23.3	218.0
5	19	59	41.76	140.40		15	45.3	225.6
				140.37				
6	20	2	2.13		−22	11	59.7	
7		4	22.47	140.34		8	6.5	+ 233.2
8		6	42.79	140.32	22	4	5.6	240.9
9		9	3.08	140.29	21	59	57.0	248.6
10		11	23.33	140.25		55	40.8	256.2
11		13	43.54	140.21		51	16.9	263.9
				140.16				271.4
12	20	16	3.70		−21	46	45.5	
13		18	23.82	140.12		42	6.5	+ 279.0
14		20	43.89	140.07		37	20.0	286.5
15		23	3.90	140.01		32	25.9	294.1
16		25	23.86	139.96		27	24.3	301.6
17		27	43.76	139.90		22	15.2	309.1
				139.84				316.5
18	20	30	3.60		−21	16	58.7	
19		32	23.38	139.78		11	34.7	+ 324.0
20		34	43.09	139.71		6	3.3	331.4
21		37	2.73	139.64	21	0	24.5	338.8
22		39	22.29	139.56	20	54	38.4	346.1
23		41	41.77	139.48		48	44.9	353.5
				139.40				360.8
	6 月 1 日							
0	20	44	1.17		−20	42	44.1	
1		46	20.50	139.33		36	36.0	+ 368.1
2		48	39.74	139.24		30	20.7	375.3
3		50	58.89	139.15		23	58.1	382.6
4		53	17.96	139.07		17	28.4	389.7
5		55	36.94	138.98		10	51.5	396.9
				138.88				404.0
6	20	57	55.82		−20	4	7.5	
7	21	0	14.62	138.80	19	57	16.4	+ 411.1
8		2	33.31	138.69		50	18.3	418.1
9		4	51.91	138.60		43	13.2	425.1
10		7	10.40	138.49		36	1.1	432.1
11		9	28.80	138.40		28	42.1	439.0
				138.29				445.9
12	21	11	47.09		−19	21	16.2	
13		14	5.28	138.19		13	43.4	+ 452.8
14		16	23.36	138.08	19	6	3.8	459.6
15		18	41.33	137.97	18	58	17.4	466.4
16		20	59.20	137.87		50	24.3	473.1
17		23	16.96	137.76		42	24.4	479.9
				137.64				486.5
18	21	25	34.60		−18	34	17.9	
19		27	52.14	137.54		26	4.8	+ 493.1
20		30	9.56	137.42		17	45.2	499.6
21		32	26.87	137.31		9	19.0	506.2
22		34	44.06	137.19	18	0	46.3	512.7
23		37	1.15	137.09	17	52	7.2	519.1
				136.96				525.5
	6 月 2 日							
0	21	39	18.11		−17	43	21.7	
1		41	34.96	136.85		34	29.9	+ 531.8
2		43	51.69	136.73		25	31.7	538.2
3		46	8.31	136.62		16	27.2	544.5
4		48	24.81	136.50	17	7	16.6	550.6
5		50	41.20	136.39	16	57	59.8	556.8
				136.27				562.8
6	21	52	57.47		−16	48	37.0	
7		55	13.62	136.15		39	8.1	+ 568.9
8		57	29.65	136.03		29	33.2	574.9
9	21	59	45.57	135.92		19	52.3	580.9
10	22	2	1.37	135.80		10	5.5	586.8
11		4	17.06	135.69	16	0	12.9	592.6
12	22	6	32.63	135.57	−15	50	14.5	+ 598.4

世界時	赤經			赤緯			
	6 月 2 日						
h	h	m	s	s	°	′	″	″
12	22	6	32.63	135.46	−15	50	14.5	+ 604.2
13		8	48.09	135.34		40	10.3	609.8
14		11	3.43	135.23		30	0.5	615.5
15		13	18.66	135.11		19	45.0	621.0
16		15	33.77	135.01	15	9	24.0	626.6
17		17	48.78	134.89	14	58	57.4	632.0
18	22	20	3.67		−14	48	25.4	
19		22	18.45	134.78		37	47.9	+ 637.5
20		24	33.12	134.67		27	5.1	642.8
21		26	47.69	134.57		16	17.0	648.1
22		29	2.15	134.46	14	5	23.7	653.3
23		31	16.51	134.36	13	54	25.2	658.5
				134.25				663.7
	6 月 3 日							
0	22	33	30.76		−13	43	21.5	
1		35	44.91	134.15		32	12.8	+ 668.7
2		37	58.96	134.05		20	59.1	673.7
3		40	12.91	133.95	13	9	40.4	678.7
4		42	26.76	133.85	12	58	16.8	683.6
5		44	40.51	133.75		46	48.4	688.4
				133.66				693.2
6	22	46	54.17		−12	35	15.2	
7		49	7.74	133.57		23	37.3	+ 697.9
8		51	21.21	133.47		11	54.9	702.4
9		53	34.60	133.39	12	0	7.8	707.1
10		55	47.90	133.30	11	48	16.1	711.7
11	22	58	1.12	133.22		36	20.0	716.1
				133.13				720.4
12	23	0	14.25		−11	24	19.6	
13		2	27.31	133.06		12	14.8	+ 724.8
14		4	40.28	132.97	11	0	5.7	729.1
15		6	53.18	132.90	10	47	52.4	733.3
16		9	6.00	132.82		35	35.0	737.4
17		11	18.75	132.75		23	13.5	741.5
				132.69				745.5
18	23	13	31.44	132.63	−10	10	48.0	
19		15	44.07	132.56		9	58	18.5	+ 749.5
20		17	56.63	132.50			45	45.2	753.3
21		20	9.13	132.44			33	8.1	757.1
22		22	21.57	132.38			20	27.2	760.9
23		24	33.95	132.33		9	7	42.7	764.5
									768.1
	6 月 4 日							
0	23	26	46.28		−	8	54	54.6	
1		28	58.56	132.28			42	2.9	+ 771.7
2		31	10.79	132.23			29	7.8	775.1
3		33	22.98	132.19			16	9.3	778.5
4		35	35.13	132.15		8	3	7.4	781.9
5		37	47.24	132.11		7	50	2.2	785.2
				132.07					788.3
6	23	39	59.31		−	7	36	53.9	
7		42	11.35	132.04			23	42.5	+ 791.4
8		44	23.37	132.02		7	10	28.1	794.4
9		46	35.36	131.99		6	57	10.7	797.4
10		48	47.33	131.97			43	50.3	800.4
11		50	59.28	131.95			30	27.1	803.2
				131.93					806.0
12	23	53	11.21	131.91	−	6	17	1.1	+ 808.7
13		55	23.12	131.91		6	3	32.4	811.2
14		57	35.03	131.91		5	50	1.2	813.8
15	23	59	46.94	131.91			36	27.4	816.2
16	0	1	58.84	131.90			22	51.2	818.6
17		4	10.74	131.90		5	9	12.6	821.0
18	0	6	22.64	131.91	−	4	55	31.6	+ 823.2
19		8	34.55	131.93			41	48.4	825.3
20		10	46.48	131.94			28	3.1	827.4
21		12	58.42	131.96			14	15.7	829.4
22		15	10.38	131.97		4	0	26.3	831.4
23		17	22.35	131.99		3	46	34.9	+ 833.2
24	0	19	34.34		−	3	32	41.7	

世界時	赤經			赤緯			
	6月 5日						
h	h	m	s	s	°	′	″	″
0	0	19	34.34	132.02	− 3	32	41.7	+834.9
1		21	46.36	132.06		18	46.8	836.7
2		23	58.42	132.10	3	4	50.1	838.3
3		26	10.52	132.13	2	50	51.8	839.9
4		28	22.65	132.17		36	51.9	841.3
5		30	34.82	132.22		22	50.6	842.6
6	0	32	47.04		− 2	8	48.0	
7		34	59.31	132.27	1	54	44.1	+843.9
8		37	11.63	132.32		40	38.9	845.2
9		39	24.02	132.39		26	32.5	846.4
10		41	36.46	132.44	1	12	25.1	847.4
11		43	48.97	132.51	0	58	16.8	848.3
				132.57				849.1
12	0	46	1.54		− 0	44	7.7	
13		48	14.19	132.65		29	57.7	+850.0
14		50	26.91	132.72		15	47.0	850.7
15		52	39.72	132.81	− 0	1	35.7	851.3
16		54	52.60	132.88	+ 0	12	36.2	851.9
17		57	5.56	132.96		26	48.6	852.4
				133.06				852.8
18	0	59	18.62		+ 0	41	1.4	
19	1	1	31.78	133.16	0	55	14.4	+853.0
20		3	45.03	133.25	1	9	27.6	853.2
21		5	58.38	133.35		23	40.9	853.3
22		8	11.83	133.45		37	54.3	853.4
23		10	25.39	133.56	1	52	7.6	853.3
				133.68				853.2
	6月 6日							
0	1	12	39.07		+ 2	6	20.8	
1		14	52.86	133.79		20	33.7	+852.9
2		17	6.77	133.91		34	46.3	852.6
3		19	20.80	134.03	2	48	58.5	852.2
4		21	34.95	134.15	3	3	10.3	851.8
5		23	49.23	134.28		17	21.5	851.2
				134.42				850.4
6	1	26	3.65		+ 3	31	31.9	
7		28	18.21	134.56		45	41.5	+849.6
8		30	32.90	134.69	3	59	50.3	848.8
9		32	47.74	134.84	4	13	58.1	847.8
10		35	2.72	134.98		28	4.9	846.8
11		37	17.85	135.13		42	10.5	845.6
				135.28				844.4
12	1	39	33.13		+ 4	56	14.9	
13		41	48.58	135.45	5	10	18.0	+843.1
14		44	4.18	135.60		24	19.7	841.7
15		46	19.95	135.77		38	19.8	840.1
16		48	35.87	135.92	5	52	18.3	838.5
17		50	51.96	136.09	6	6	15.1	836.8
				136.27				834.9
18	1	53	8.23		+ 6	20	10.0	
19		55	24.68	136.45		34	3.1	+833.1
20		57	41.30	136.62	6	47	54.2	831.1
21	1	59	58.11	136.81	7	1	43.2	829.0
22	2	2	15.09	136.98		15	30.1	826.9
23		4	32.26	137.17		29	14.7	824.6
				137.36				822.1
	6月 7日							
0	2	6	49.62		+ 7	42	56.8	
1		9	7.18	137.56		7	56	36.5	+819.7
2		11	24.93	137.75	8	10	13.6	817.1
3		13	42.88	137.95		23	48.1	814.5
4		16	1.02	138.14		37	19.8	811.7
5		18	19.36	138.34	8	50	48.7	808.9
				138.55				805.9
6	2	20	37.91		+ 9	4	14.6	
7		22	56.67	138.76		17	37.4	+802.8
8		25	15.63	138.96		30	57.1	799.7
9		27	34.80	139.17		44	13.5	796.4
10		29	54.19	139.39	9	57	26.6	793.1
11		32	13.80	139.61	10	10	36.2	789.6
12	2	34	33.62	139.82	+10	23	42.2	+786.0

世界時	赤經			赤緯			
	6月 7日						
h	h	m	s	s	°	′	″	″
12	2	34	33.62	140.04	+10	23	42.2	+782.4
13		36	53.66	140.26		36	44.6	778.7
14		39	13.92	140.49	10	49	43.3	774.9
15		41	34.41	140.71	11	2	38.2	770.9
16		43	55.12	140.94		15	29.1	766.8
17		46	16.06	141.16		28	15.9	762.7
18	2	48	37.22		+11	40	58.6	
19		50	58.61	141.39	11	53	37.0	+758.4
20		53	20.22	141.61	12	6	11.1	754.1
21		55	42.06	141.84		18	40.8	749.7
22	2	58	4.14	142.08		31	5.9	745.1
23	3	0	26.45	142.31		43	26.4	740.5
				142.55				735.8
	6月 8日							
0	3	2	49.00		+12	55	42.2	
1		5	11.78	142.78	13	7	53.2	+731.0
2		7	34.79	143.01		19	59.3	726.1
3		9	58.04	143.25		32	0.3	721.0
4		12	21.53	143.49		43	56.1	715.8
5		14	45.25	143.72	13	55	46.8	710.7
				143.96				705.4
6	3	17	9.21		+14	7	32.2	
7		19	33.40	144.19		19	12.2	+700.0
8		21	57.82	144.42		30	46.7	694.5
9		24	22.49	144.67		42	15.6	688.9
10		26	47.39	144.90	14	53	38.8	683.2
11		29	12.52	145.13	15	4	56.2	677.4
				145.37				671.6
12	3	31	37.89	145.60	+15	16	7.8	+665.6
13		34	3.49	145.83		27	13.4	659.6
14		36	29.32	146.07		38	13.0	653.4
15		38	55.39	146.30		49	6.4	647.1
16		41	21.69	146.53	15	59	53.5	640.8
17		43	48.22	146.76	16	10	34.3	634.4
18	3	46	14.98	146.98	+16	21	8.7	+627.9
19		48	41.96	147.21		31	36.6	621.3
20		51	9.17	147.43		41	57.9	614.6
21		53	36.60	147.65	16	52	12.5	607.9
22		56	4.25	147.87	17	2	20.4	601.0
23	3	58	32.12	148.09		12	21.4	594.0
	6月 9日							
0	4	1	0.21		+17	22	15.4	
1		3	28.51	148.30		32	2.4	+587.0
2		5	57.03	148.52		41	42.4	580.0
3		8	25.76	148.73	17	51	15.2	572.8
4		10	54.70	148.94	18	0	40.7	565.5
5		13	23.84	149.14		9	58.9	558.2
				149.34				550.8
6	4	15	53.18		+18	19	9.7	
7		18	22.72	149.54		28	13.0	+543.3
8		20	52.45	149.73		37	8.6	535.6
9		23	22.37	149.92		45	56.6	528.0
10		25	52.48	150.11	18	54	37.0	520.4
11		28	22.78	150.30	19	3	9.6	512.6
				150.48				504.7
12	4	30	53.26	150.66	+19	11	34.3	+496.8
13		33	23.92	150.83		19	51.1	488.8
14		35	54.75	151.00		27	59.9	480.7
15		38	25.75	151.16		36	0.6	472.6
16		40	56.91	151.33		43	53.2	464.4
17		43	28.24	151.48		51	37.6	456.1
18	4	45	59.72	151.63	+19	59	13.7	
19		48	31.35	151.78	20	6	41.6	+447.9
20		51	3.13	151.91		14	1.1	439.5
21		53	35.04	152.05		21	12.1	431.0
22		56	7.09	152.18		28	14.7	422.6
23	4	58	39.27	152.31		35	8.8	414.1
24	5	1	11.58		+20	41	54.3	+405.5

世界時	赤經			赤緯			
	6月 10日						
h	h	m	s	s	°	′	″	″
0	5	1	11.58	152.43	+20	41	54.3	+396.8
1		3	44.01	152.54		48	31.1	388.1
2		6	16.55	152.65	20	54	59.2	379.4
3		8	49.20	152.76	21	1	18.6	370.5
4		11	21.96	152.85		7	29.1	361.8
5		13	54.81	152.95		13	30.9	353.0
6	5	16	27.76		+21	19	23.9	
7		19	0.79	153.03		25	8.0	+344.1
8		21	33.89	153.10		30	43.0	335.0
9		24	7.07	153.18		36	9.1	326.1
10		26	40.31	153.24		41	26.2	317.1
11		29	13.61	153.30		46	34.3	308.1
				153.36				299.0
12	5	31	46.97		+21	51	33.3	
13		34	20.38	153.41		21	56	23.2	+289.9
14		36	53.83	153.45	22	1	3.9	280.7
15		39	27.31	153.48		5	35.5	271.6
16		42	0.82	153.51		9	57.9	262.4
17		44	34.35	153.53		14	11.2	253.3
				153.54				244.0
18	5	47	7.89		+22	18	15.2	
19		49	41.44	153.55		22	9.9	+234.7
20		52	14.98	153.54		25	55.4	225.5
21		54	48.52	153.54		29	31.6	216.2
22		57	22.04	153.52		32	58.6	207.0
23	5	59	55.54	153.50		36	16.3	197.7
				153.48				188.4
	6月 11日							
0	6	2	29.02		+22	39	24.7	+179.0
1		5	2.46	153.44		42	23.7	169.7
2		7	35.86	153.40		45	13.4	160.4
3		10	9.21	153.35		47	53.8	151.1
4		12	42.50	153.29		50	24.9	141.8
5		15	15.72	153.22		52	46.7	132.5
				153.15				
6	6	17	48.87		+22	54	59.2	
7		20	21.94	153.07		57	2.4	+123.2
8		22	54.93	152.99	22	58	56.4	114.0
9		25	27.83	152.90	23	0	41.1	104.7
10		28	0.63	152.80		2	16.5	95.4
11		30	33.32	152.69		3	42.6	86.1
				152.57				76.9
12	6	33	5.89		+23	4	59.5	
13		35	38.34	152.45		6	7.2	+ 67.7
14		38	10.67	152.33		7	5.6	58.4
15		40	42.86	152.19		7	54.9	49.3
16		43	14.91	152.05		8	35.0	40.1
17		45	46.82	151.91		9	6.0	31.0
				151.75				21.9
18	6	48	18.57		+23	9	27.9	
19		50	50.15	151.58		9	40.7	+ 12.8
20		53	21.56	151.41		9	44.5	+ 3.8
21		55	52.80	151.24		9	39.2	− 5.3
22	6	58	23.85	151.05		9	25.0	14.2
23	7	0	54.72	150.87		9	1.8	23.2
				150.67				32.2
	6月 12日							
0	7	3	25.39		+23	8	29.6	
1		5	55.86	150.47		7	48.5	− 41.1
2		8	26.13	150.27		6	58.6	49.9
3		10	56.18	150.05		5	59.9	58.7
4		13	26.01	149.83		4	52.5	67.4
5		15	55.62	149.61		3	36.3	76.2
				149.37				84.9
6	7	18	24.99		+23	2	11.4	
7		20	54.13	149.14	23	0	37.9	− 93.5
8		23	23.03	148.90	22	58	55.9	102.0
9		25	51.68	148.65		57	5.3	110.6
10		28	20.07	148.39		55	6.2	119.1
11		30	48.20	148.13		52	58.6	127.6
12	7	33	16.07	147.87	+22	50	42.6	−136.0

世界時	赤經			赤緯			
	6月 12日						
h	h	m	s	s	°	′	″	″
12	7	33	16.07	147.60	+22	50	42.6	
13		35	43.67	147.33		48	18.3	−144.3
14		38	11.00	147.05		45	45.8	152.5
15		40	38.05	146.76		43	5.0	160.8
16		43	4.81	146.48		40	16.1	168.9
17		45	31.29	146.19		37	19.0	177.1
								185.1
18	7	47	57.48		+22	34	13.9	
19		50	23.37	145.89		31	0.8	−193.1
20		52	48.95	145.58		27	39.7	201.1
21		55	14.23	145.28		24	10.8	208.9
22	7	57	39.21	144.98		20	34.1	216.7
23	8	0	3.88	144.67		16	49.6	224.5
				144.34				232.2
	6月 13日							
0	8	2	28.22		+22	12	57.4	
1		4	52.25	144.03		8	57.5	−239.9
2		7	15.95	143.70		4	50.1	247.4
3		9	39.33	143.38	22	0	35.2	254.9
4		12	2.37	143.04	21	56	12.9	262.3
5		14	25.08	142.71		51	43.2	269.7
				142.38				277.0
6	8	16	47.46		+21	47	6.2	
7		19	9.50	142.04		42	21.9	−284.3
8		21	31.19	141.69		37	30.5	291.4
9		23	52.55	141.36		32	32.0	298.5
10		26	13.56	141.01		27	26.5	305.5
11		28	34.22	140.66		22	14.0	312.5
				140.31				319.4
12	8	30	54.53		+21	16	54.6	
13		33	14.49	139.96		11	28.4	−326.2
14		35	34.09	139.60		5	55.5	332.9
15		37	53.34	139.25	21	0	15.9	339.6
16		40	12.24	138.90	20	54	29.6	346.3
17		42	30.77	138.53		48	36.8	352.8
				138.17				359.2
18	8	44	48.94		+20	42	37.6	
19		47	6.76	137.82		36	32.0	−365.6
20		49	24.21	137.45		30	20.0	372.0
21		51	41.30	137.09		24	1.7	378.3
22		53	58.03	136.73		17	37.3	384.4
23		56	14.39	136.36		11	6.8	390.5
				135.99				396.6
	6月 14日							
0	8	58	30.38		+20	4	30.2	
1	9	0	46.01	135.63	19	57	47.7	−402.5
2		3	1.27	135.26		50	59.2	408.5
3		5	16.17	134.90		44	4.9	414.3
4		7	30.71	134.54		37	4.9	420.0
5		9	44.88	134.17		29	59.2	425.7
				133.80				431.4
6	9	11	58.68		+19	22	47.8	
7		14	12.12	133.44		15	30.9	−436.9
8		16	25.19	133.07		8	8.5	442.4
9		18	37.90	132.71	19	0	40.7	447.8
10		20	50.25	132.35	18	53	7.6	453.1
11		23	2.23	131.98		45	29.2	458.4
				131.61				463.6
12	9	25	13.84		+18	37	45.6	
13		27	25.10	131.26		29	56.9	−468.7
14		29	35.99	130.89		22	3.1	473.8
15		31	46.53	130.54		14	4.4	478.7
16		33	56.71	130.18	18	6	0.7	483.7
17		36	6.53	129.82	17	57	52.1	488.6
				129.46				493.3
18	9	38	15.99		+17	49	38.8	
19		40	25.10	129.11		41	20.8	−498.0
20		42	33.86	128.76		32	58.1	502.7
21		44	42.27	128.41		24	30.8	507.3
22		46	50.32	128.05		15	59.0	511.8
23		48	58.02	127.70		7	22.8	516.2
24	9	51	5.38	127.36	+16	58	42.2	−520.6

6月15日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″	
0	9	51	5.38	127.02	+16	58	42.2		−524.9
1		53	12.40	126.67		49	57.3		529.2
2		55	19.07	126.33		41	8.1		533.4
3		57	25.40	125.99		32	14.7		537.5
4	9	59	31.39	125.66		23	17.2		541.6
5	10	1	37.05	125.32		14	15.6		545.5
6	10	3	42.37	124.99	+16	5	10.1		−549.5
7		5	47.36	124.67	15	56	0.6		553.3
8		7	52.03	124.34		46	47.3		557.2
9		9	56.37	124.01		37	30.1		560.9
10		12	0.38	123.70		28	9.2		564.6
11		14	4.08	123.37		18	44.6		568.2
12	10	16	7.45	123.06	+15	9	16.4		−571.8
13		18	10.51	122.74	14	59	44.6		575.3
14		20	13.25	122.43		50	9.3		578.7
15		22	15.68	122.12		40	30.6		582.1
16		24	17.80	121.82		30	48.5		585.5
17		26	19.62	121.51		21	3.0		588.7
18	10	28	21.13	121.21	+14	11	14.3		−591.9
19		30	22.34	120.92	14	1	22.4		595.1
20		32	23.26	120.63	13	51	27.3		598.2
21		34	23.89	120.33		41	29.1		601.2
22		36	24.22	120.05		31	27.9		604.2
23		38	24.27	119.76		21	23.7		607.2

6月16日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″	
0	10	40	24.03	119.48	+13	11	16.5		−610.1
1		42	23.51	119.20	13	1	6.4		612.8
2		44	22.71	118.93	12	50	53.6		615.6
3		46	21.64	118.66		40	38.0		618.3
4		48	20.30	118.39		30	19.7		621.0
5		50	18.69	118.13		19	58.7		623.6
6	10	52	16.82	117.87	+12	9	35.1		−626.1
7		54	14.69	117.60	11	59	9.0		628.7
8		56	12.29	117.36		48	40.3		631.2
9	10	58	9.65	117.10		38	9.1		633.5
10	11	0	6.75	116.85		27	35.6		635.9
11		2	3.60	116.61		16	59.7		638.2
12	11	4	0.21	116.38	+11	6	21.5		−640.5
13		5	56.59	116.13	10	55	41.0		642.6
14		7	52.72	115.90		44	58.4		644.8
15		9	48.62	115.67		34	13.6		646.9
16		11	44.29	115.44		23	26.7		649.0
17		13	39.73	115.22		12	37.7		651.0
18	11	15	34.95	115.01	+10	1	46.7		−652.9
19		17	29.96	114.79	9	50	53.8		654.9
20		19	24.75	114.58		39	58.9		656.8
21		21	19.33	114.37		29	2.1		658.6
22		23	13.70	114.17		18	3.5		660.4
23		25	7.87	113.97	9	7	3.1		662.2

6月17日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″	
0	11	27	1.84	113.77	+ 8	56	0.9		−663.9
1		28	55.61	113.58		44	57.0		665.4
2		30	49.19	113.39		33	51.6		667.1
3		32	42.58	113.21		22	44.5		668.6
4		34	35.79	113.02		11	35.9		670.2
5		36	28.81	112.84	− 8	0	25.7		671.6
6	11	38	21.65	112.67	+ 7	49	14.1		−673.1
7		40	14.32	112.51		38	1.0		674.5
8		42	6.83	112.34		26	46.5		675.8
9		43	59.17	112.17		15	30.7		677.2
10		45	51.34	112.01	7	4	13.5		678.4
11		47	43.35	111.86		6	52	55.1	−679.6
12	11	49	35.21	111.71	+	6	41	35.5	−680.8

6月17日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″	
12	11	49	35.21	111.71	+	6	41	35.5	−680.8
13		51	26.92	111.56			30	14.7	682.0
14		53	18.48	111.42			18	52.7	683.1
15		55	9.90	111.28		6	7	29.6	684.1
16		57	1.18	111.15		5	56	5.5	685.1
17	11	58	52.33	111.01			44	40.4	686.1
18	12	0	43.34	110.89	+	5	33	14.3	−687.1
19		2	34.23	110.76			21	47.2	688.0
20		4	24.99	110.64		5	10	19.2	688.9
21		6	15.63	110.52		4	58	50.3	689.7
22		8	6.15	110.41			47	20.6	690.5
23		9	56.56	110.31			35	50.1	691.3

6月18日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″	
0	12	11	46.87	110.20	+	4	24	18.8	−692.0
1		13	37.07	110.10			12	46.8	692.6
2		15	27.17	110.00		4	1	14.2	693.3
3		17	17.17	109.91		3	49	40.9	694.0
4		19	7.08	109.82			38	6.9	694.5
5		20	56.90	109.74			26	32.4	695.0
6	12	22	46.64	109.66	+	3	14	57.4	−695.5
7		24	36.30	109.57		3	3	21.9	695.9
8		26	25.87	109.50		2	51	46.0	696.4
9		28	15.37	109.44			40	9.6	696.8
10		30	4.81	109.37			28	32.8	697.1
11		31	54.18	109.31			16	55.7	697.4
12	12	33	43.49	109.25	+	2	5	18.3	−697.7
13		35	32.74	109.19		1	53	40.6	697.9
14		37	21.93	109.14			42	2.7	698.2
15		39	11.07	109.10			30	24.5	698.3
16		41	0.17	109.06			18	46.2	698.5
17		42	49.23	109.02		1	7	7.7	698.5
18	12	44	38.25	108.98	+	0	55	29.2	−698.6
19		46	27.23	108.95			43	50.6	698.6
20		48	16.18	108.92			32	12.0	698.6
21		50	5.10	108.90			20	33.4	698.6
22		51	54.00	108.88	+	0	8	54.8	698.5
23		53	42.88	108.86	−	0	2	43.7	698.3

6月19日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″	
0	12	55	31.74	108.85	−	0	14	22.0	−698.2
1		57	20.59	108.84			26	0.2	698.0
2	12	59	9.43	108.84			37	38.2	697.8
3	13	0	58.27	108.84		0	49	16.0	697.6
4		2	47.11	108.84		1	0	53.6	697.3
5		4	35.95	108.84			12	30.9	697.0
6	13	6	24.79	108.85	−	1	24	7.9	−696.6
7		8	13.64	108.87			35	44.5	696.2
8		10	2.51	108.89			47	20.7	695.8
9		11	51.40	108.91		1	58	56.5	695.3
10		13	40.31	108.94		2	10	31.8	694.8
11		15	29.25	108.96			22	6.6	694.2
12	13	17	18.21	109.00	−	2	33	40.8	−693.7
13		19	7.21	109.03			45	14.5	693.0
14		20	56.24	109.08		2	56	47.5	692.4
15		22	45.32	109.11		3	8	19.9	691.7
16		24	34.43	109.16			19	51.6	691.0
17		26	23.59	109.22			31	22.6	690.3
18	13	28	12.81	109.27	−	3	42	52.9	−689.5
19		30	2.08	109.33		3	54	22.4	688.6
20		31	51.41	109.40		4	5	51.0	687.8
21		33	40.81	109.46			17	18.8	686.8
22		35	30.27	109.52			28	45.6	685.9
23		37	19.79	109.60			40	11.5	−684.9
24	13	39	9.39		−	4	51	36.4	

6月20日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″	
0	13	39	9.39	109.68	−	4	51	36.4	−683.9
1		40	59.07	109.76		5	3	0.3	682.9
2		42	48.83	109.84			14	23.2	681.8
3		44	38.67	109.92			25	45.0	680.7
4		46	28.59	110.01			37	5.7	679.5
5		48	18.66	110.11			48	25.2	678.3
6	13	50	8.71	110.21	−	5	59	43.5	−677.0
7		51	58.92	110.31		6	11	0.5	675.8
8		53	49.23	110.42			22	16.3	674.5
9		55	39.65	110.52			33	30.8	673.1
10		57	30.17	110.64			44	43.9	671.7
11	13	59	20.81	110.75		6	55	55.6	670.3
12	14	1	11.56	110.87	−	7	7	5.9	−668.8
13		3	2.43	110.98			18	14.7	667.3
14		4	53.41	111.11			29	22.0	665.8
15		6	44.52	111.25			40	27.8	664.2
16		8	35.77	111.38		7	51	32.0	662.5
17		10	27.15	111.51		8	2	34.5	660.9
18	14	12	18.66	111.66	−	8	13	35.4	−659.2
19		14	10.32	111.80			24	34.6	657.3
20		16	2.12	111.94			35	31.9	655.6
21		17	54.06	112.08			46	27.5	653.8
22		19	46.14	112.24		8	57	21.3	651.9
23		21	38.38	112.39		9	8	13.2	650.0

6月21日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″	
0	14	23	30.77	112.56	−	9	19	3.2	−648.1
1		25	23.33	112.71			29	51.3	646.0
2		27	16.04	112.88			40	37.3	643.9
3		29	8.92	113.04		9	51	21.2	641.9
4		31	1.96	113.21		10	2	3.1	639.8
5		32	55.17	113.39			12	42.9	637.6
6	14	34	48.56	113.57	−10		23	20.5	−635.4
7		36	42.13	113.75			33	55.9	633.1
8		38	35.88	113.93			44	29.0	630.8
9		40	29.81	114.11		10	54	59.8	628.5
10		42	23.92	114.30		11	5	28.3	626.1
11		44	18.22	114.50			15	54.4	623.6
12	14	46	12.72	114.69	−11		26	18.0	−621.1
13		48	7.41	114.88			36	39.1	618.6
14		50	2.29	115.09			46	57.7	616.0
15		51	57.38	115.29		11	57	13.7	613.4
16		53	52.67	115.49		12	7	27.1	610.8
17		55	48.16	115.71			17	37.9	608.1
18	14	57	43.87	115.92	−12		27	46.0	−605.3
19	14	59	39.79	116.13			37	51.3	602.4
20	15	1	35.92	116.35			47	53.7	599.7
21		3	32.27	116.56		12	57	53.4	596.6
22		5	28.83	116.79		13	7	50.0	593.8
23		7	25.62	117.01			17	43.8	590.7

6月22日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″	
0	15	9	22.63	117.24	−13	27	34.5		−587.7
1		11	19.87	117.46		37	22.2		584.6
2		13	17.33	117.70		47	6.8		581.5
3		15	15.03	117.93	13	56	48.3		578.3
4		17	12.96	118.17	14	6	26.6		575.0
5		19	11.13	118.41		16	1.6		571.7
6	15	21	9.54	118.65	−14	25	33.3		−568.4
7		23	8.19	118.89		35	1.7		565.0
8		25	7.08	119.14		44	26.7		561.5
9		27	6.22	119.37	14	53	48.2		558.0
10		29	5.59	119.62	15	3	6.2		554.5
11		31	5.21	119.88		12	20.7		550.8
12	15	33	5.09	120.13	−15	21	31.5		−547.2

6月22日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″	
12	15	33	5.09	120.13	−15	21	31.5		−547.2
13		35	5.22	120.38		30	38.7		543.5
14		37	5.60	120.64		39	42.2		539.7
15		39	6.24	120.90		48	41.9		535.9
16		41	7.14	121.16		57	37.8		532.1
17		43	8.30	121.42	16	6	29.9		528.2
18	15	45	9.72	121.69	−16	15	18.1		−524.1
19		47	11.41	121.95		24	2.2		520.1
20		49	13.36	122.21		32	42.3		516.0
21		51	15.57	122.48		41	18.3		511.9
22		53	18.05	122.75		49	50.2		507.7
23		55	20.80	123.01	16	58	17.9		503.5

6月23日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″	
0	15	57	23.81	123.29	−17	6	41.4		−499.2
1	15	59	27.10	123.56		15	0.6		494.8
2	16	1	30.66	123.84		23	15.4		490.4
3		3	34.50	124.11		31	25.8		486.0
4		5	38.61	124.38		39	31.8		481.5
5		7	42.99	124.66		47	33.3		476.9
6	16	9	47.65	124.94	−17	55	30.2		−472.2
7		11	52.59	125.21	18	3	22.4		467.6
8		13	57.80	125.49		11	10.0		462.9
9		16	3.29	125.77		18	52.9		458.0
10		18	9.06	126.05		26	30.9		453.2
11		20	15.11	126.32		34	4.1		448.3
12	16	22	21.43	126.61	−18	41	32.4		−443.3
13		24	28.04	126.88		48	55.7		438.3
14		26	34.92	127.17	18	56	14.0		433.3
15		28	42.09	127.45	19	3	27.3		428.1
16		30	49.54	127.73		10	35.4		423.0
17		32	57.27	128.00		17	38.4		417.7
18	16	35	5.27	128.28	−19	24	36.1		−412.4
19		37	13.55	128.56		31	28.5		407.0
20		39	22.11	128.85		38	15.5		401.6
21		41	30.96	129.12		44	57.1		396.2
22		43	40.08	129.40		51	33.3		390.7
23		45	49.48	129.68	19	58	4.0		385.1

6月24日

世界時 h	赤経 h	m	s	s	赤緯 °	′	″	″	
0	16	47	59.16	129.96	−20	4	29.1		−379.4
1		50	9.12	130.24		10	48.5		373.8
2		52	19.36	130.51		17	2.3		368.1
3		54	29.87	130.79		23	10.4		362.3
4		56	40.66	131.06		29	12.7		356.5
5	16	58	51.72	131.33		35	9.2		350.5
6	17	1	3.05	131.60	−20	40	59.7		−344.6
7		3	14.65	131.87		46	44.3		338.6
8		5	26.52	132.14		52	22.9		332.6
9		7	38.66	132.40	20	57	55.5		326.4
10		9	51.06	132.66	21	3	21.9		320.2
11		12	3.72	132.93		8	42.1		314.0
12	17	14	16.65	133.19	−21	13	56.1		−307.8
13		16	29.84	133.45		19	3.9		301.4
14		18	43.29	133.71		24	5.3		295.1
15		20	57.00	133.97		29	0.4		288.7
16		23	10.97	134.22		33	49.1		282.2
17		25	25.19	134.48		38	31.3		275.6
18	17	27	39.67	134.73	−21	43	6.9		−269.1
19		29	54.40	134.97		47	36.0		262.4
20		32	9.37	135.22		51	58.4		255.8
21		34	24.59	135.45	21	56	14.2		249.0
22		36	40.04	135.70	22	0	23.2		242.3
23		38	55.74	135.93		4	25.5		235.4
24	17	41	11.67		−22	8	20.9		

6月25日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	17	41	11.67	s	−22	8	20.9	−228.6
1		43	27.84	136.17		12	9.5	221.7
2		45	44.24	136.40		15	51.2	214.8
3		48	0.87	136.63		19	26.0	207.8
4		50	17.71	136.84		22	53.8	200.7
5		52	34.78	137.07		26	14.5	193.7
				137.29				
6	17	54	52.07		−22	29	28.2	
7		57	9.57	137.50		32	34.8	−186.6
8	17	59	27.28	137.71		35	34.2	179.4
9	18	1	45.20	137.92		38	26.3	172.1
10		4	3.32	138.12		41	11.2	164.9
11		6	21.65	138.33		43	48.9	157.7
				138.52				150.2
12	18	8	40.17		−22	46	19.1	
13		10	58.89	138.72		48	42.1	−143.0
14		13	17.79	138.90		50	57.6	135.5
15		15	36.88	139.09		53	5.7	128.1
16		17	56.15	139.27		55	6.3	120.6
17		20	15.59	139.44		56	59.5	113.2
				139.62				105.6
18	18	22	35.21		−22	58	45.1	
19		24	55.00	139.79	23	0	23.1	− 98.0
20		27	14.95	139.95		1	53.5	90.4
21		29	35.06	140.11		3	16.3	82.8
22		31	55.32	140.26		4	31.4	75.1
23		34	15.73	140.41		5	38.9	67.5
				140.56				59.7

6月26日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	18	36	36.29		−23	6	38.6	
1		38	56.99	140.70		7	30.6	− 52.0
2		41	17.83	140.84		8	14.8	44.2
3		43	38.81	140.98		8	51.2	36.4
4		45	59.91	141.10		9	19.8	28.6
5		48	21.14	141.23		9	40.6	20.8
				141.34				12.9
6	18	50	42.48		−23	9	53.5	
7		53	3.94	141.46		9	58.6	− 5.1
8		55	25.50	141.56		9	55.7	+ 2.9
9	18	57	47.17	141.67		9	44.9	10.8
10	19	0	8.94	141.77		9	26.2	18.7
11		2	30.80	141.86		8	59.6	26.6
				141.94				34.6
12	19	4	52.74		−23	8	25.0	
13		7	14.77	142.03		7	42.4	+ 42.6
14		9	36.88	142.11		6	51.8	50.6
15		11	59.06	142.18		5	53.2	58.6
16		14	21.31	142.25		4	46.7	66.5
17		16	43.63	142.32		3	32.1	74.6
				142.38				82.6
18	19	19	6.01		−23	2	9.5	
19		21	28.44	142.43	23	0	38.8	+ 90.7
20		23	50.91	142.47	22	59	0.1	98.7
21		26	13.43	142.52		57	13.4	106.7
22		28	35.98	142.55		55	18.7	114.7
23		30	58.57	142.59		53	15.9	122.8
				142.64				130.8

6月27日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	19	33	21.21		−22	51	5.1	
1		35	43.86	142.65		48	46.3	+ 138.8
2		38	6.52	142.66		46	19.4	146.9
3		40	29.19	142.67		43	44.4	155.0
4		42	51.88	142.69		41	1.5	162.9
5		45	14.58	142.70		38	10.5	171.0
				142.69				178.9
6	19	47	37.27		−22	35	11.6	
7		49	59.96	142.69		32	4.6	+ 187.0
8		52	22.64	142.68		28	49.7	194.9
9		54	45.30	142.66		25	26.8	202.9
10		57	7.94	142.64		21	55.9	210.9
11	19	59	30.56	142.62		18	17.0	218.9
12	20	1	53.15	142.59	−22	14	30.1	+ 226.9

6月27日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	20	1	53.15	142.56	−22	14	30.1	+ 234.8
13		4	15.71	142.52		10	35.3	242.6
14		6	38.23	142.48		6	32.7	250.5
15		9	0.71	142.43	22	2	22.2	258.4
16		11	23.14	142.38	21	58	3.8	266.3
17		13	45.52	142.33		53	37.5	274.1
18	20	16	7.85		−21	49	3.4	
19		18	30.12	142.27		44	21.5	+ 281.9
20		20	52.33	142.21		39	31.8	289.7
21		23	14.47	142.14		34	34.4	297.4
22		25	36.53	142.06		29	29.3	305.1
23		27	58.52	141.99		24	16.4	312.9
				141.91				320.5

6月28日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	20	30	20.43		−21	18	55.9	
1		32	42.26	141.83		13	27.7	+ 328.2
2		35	4.00	141.74		7	52.0	335.7
3		37	25.66	141.66	21	2	8.6	343.4
4		39	47.22	141.56	20	56	17.6	351.0
5		42	8.68	141.46		50	19.2	358.4
				141.36				365.9
6	20	44	30.04		−20	44	13.3	
7		46	51.30	141.26		38	0.0	+ 373.3
8		49	12.45	141.15		31	39.3	380.7
9		51	33.49	141.04		25	11.2	388.1
10		53	54.42	140.93		18	35.7	395.5
11		56	15.23	140.81		11	52.9	402.8
				140.70				409.9
12	20	58	35.93		−20	5	3.0	
13	21	0	56.51	140.58	19	58	5.8	+ 417.2
14		3	16.96	140.45		51	1.4	424.4
15		5	37.29	140.33		43	49.9	431.5
16		7	57.49	140.20		36	31.4	438.5
17		10	17.55	140.06		29	5.8	445.6
				139.93				452.5
18	21	12	37.48		−19	21	33.3	
19		14	57.28	139.80		13	53.8	+ 459.5
20		17	16.94	139.66	19	6	7.4	466.4
21		19	36.47	139.53	18	58	14.1	473.3
22		21	55.85	139.38		50	14.1	480.0
23		24	15.09	139.24		42	7.3	486.8
				139.09				493.5

6月29日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	21	26	34.18		−18	33	53.8	
1		28	53.13	138.95		25	33.7	+ 500.1
2		31	11.93	138.80		17	7.0	506.7
3		33	30.59	138.66	18	8	33.7	513.3
4		35	49.09	138.50	17	59	53.9	519.8
5		38	7.44	138.35		51	7.7	526.2
				138.20				532.6
6	21	40	25.64		−17	42	15.1	
7		42	43.68	138.04		33	16.2	+ 538.9
8		45	1.57	137.89		24	11.1	545.1
9		47	19.31	137.74		14	59.8	551.3
10		49	36.89	137.58	17	5	42.2	557.6
11		51	54.32	137.43	16	56	18.5	563.7
				137.27				569.6
12	21	54	11.59		−16	46	48.9	
13		56	28.71	137.12		37	13.3	+ 575.6
14	21	58	45.66	136.95		27	31.8	581.5
15	22	1	2.46	136.80		17	44.4	587.4
16		3	19.10	136.64	16	7	51.1	593.3
17		5	35.59	136.49	15	57	52.1	599.0
				136.33				604.6
18	22	7	51.92		−15	47	47.5	
19		10	8.10	136.18		37	37.3	+ 610.2
20		12	24.11	136.01		27	21.5	615.8
21		14	39.97	135.86		17	0.2	621.3
22		16	55.67	135.70	15	6	33.5	626.7
23		19	11.22	135.55	14	56	1.4	632.1
24	22	21	26.61	135.39	−14	45	24.0	+ 637.4

6月30日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	22	21	26.61		−14	45	24.0	
1		23	41.85	135.24		34	41.3	+ 642.7
2		25	56.94	135.09		23	53.5	647.8
3		28	11.88	134.94		13	0.6	652.9
4		30	26.66	134.78	14	2	2.6	658.0
5		32	41.29	134.63	13	50	59.7	662.9
				134.49				667.9
6	22	34	55.78		−13	39	51.8	
7		37	10.12	134.34		28	39.0	+ 672.8
8		39	24.31	134.19		17	21.5	677.5
9		41	38.36	134.05	13	5	59.3	682.2
10		43	52.27	133.91	12	54	32.4	686.9
11		46	6.03	133.76		43	1.0	691.4
				133.62				695.9
12	22	48	19.65		−12	31	25.1	
13		50	33.14	133.49		19	44.7	+ 700.4
14		52	46.49	133.35	12	8	0.0	704.7
15		54	59.70	133.21	11	56	10.9	709.1
16		57	12.78	133.08		44	17.6	713.3
17	22	59	25.73	132.95		32	20.1	717.5
				132.82				721.6
18	23	1	38.55		−11	20	18.5	
19		3	51.25	132.70		8	12.9	+ 725.6
20		6	3.82	132.57	10	56	3.3	729.6
21		8	16.27	132.45		43	49.8	733.5
22		10	28.60	132.33		31	32.5	737.3
23		12	40.81	132.21		19	11.4	741.1
				132.09				744.7

7月1日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	23	14	52.90		−10	6	46.7	
1		17	4.89	131.99		9	54	18.3	+ 748.4
2		19	16.76	131.87			41	46.4	751.9
3		21	28.52	131.76			29	11.0	755.4
4		23	40.18	131.66			16	32.2	758.8
5		25	51.74	131.56	9	3	50.1	762.1
				131.46				765.3
6	23	28	3.20		− 8	51	4.8	
7		30	14.56	131.36		38	16.3	+ 768.5
8		32	25.82	131.26		25	24.7	771.6
9		34	37.00	131.18	8	12	30.0	774.7
10		36	48.09	131.09	7	59	32.3	777.7
11		38	59.10	131.01		46	31.7	780.6
				130.92				783.5
12	23	41	10.02		− 7	33	28.2	
13		43	20.87	130.85		20	22.0	+ 786.2
14		45	31.64	130.77	7	7	13.2	788.8
15		47	42.33	130.69	6	54	1.7	791.5
16		49	52.96	130.63		40	47.6	794.1
17		52	3.52	130.56		27	31.1	796.5
				130.50				798.9
18	23	54	14.02		− 6	14	12.2	
19		56	24.47	130.45		6	0	51.0	+ 801.2
20	23	58	34.86	130.39		5	47	27.6	803.4
21	0	0	45.20	130.34			34	2.0	805.6
22		2	55.48	130.28			20	34.2	807.8
23		5	5.72	130.24		5	7	4.4	809.8
				130.19					811.7

7月2日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	0	7	15.91		− 4	53	32.7	
1		9	26.07	130.16		39	59.1	+ 813.6
2		11	36.19	130.12		26	23.7	815.4
3		13	46.28	130.09	4	12	46.6	817.1
4		15	56.35	130.07	3	59	7.9	818.7
5		18	6.39	130.04		45	27.6	820.3
				130.01				821.9
6	0	20	16.40		− 3	31	45.7	
7		22	26.41	130.01		18	2.4	+ 823.3
8		24	36.40	129.99	3	4	17.7	824.7
9		26	46.38	129.98	2	50	31.8	825.9
10		28	56.35	129.97		36	44.7	827.1
11		31	6.33	129.98		22	56.4	+ 828.3
12	0	33	16.31	129.98	− 2	9	7.1	+ 829.3

7月2日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	0	33	16.31		− 2	9	7.1	
13		35	26.29	129.98		1	55. 16.8	+ 830.3
14		37	36.27	129.98			41	25.6	831.2
15		39	46.27	130.00			27	33.6	832.0
16		41	56.29	130.02		1	13	40.8	832.8
17		44	6.33	130.04		0	59	47.3	833.5
				130.07					834.1
18	0	46	16.40		−	0	45	53.2	
19		48	26.50	130.10			31	58.6	+ 834.6
20		50	36.63	130.13			18	3.7	834.9
21		52	46.80	130.17	−	0	4	8.3	835.4
22		54	57.01	130.21	+	0	9	47.4	835.7
23		57	7.26	130.25			23	43.3	835.9
				130.29					836.1

7月3日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	0	59	17.55		+	0	37	39.4	
1	1	1	27.90	130.35			51	35.5	+ 836.1
2		3	38.30	130.40		1	5	31.5	836.0
3		5	48.77	130.47			19	27.5	836.0
4		7	59.30	130.53			33	23.3	835.8
5		10	9.89	130.59		1	47	18.8	835.5
				130.67					835.2
6	1	12	20.56		+	2	1	14.0	
7		14	31.30	130.74			15	8.8	+ 834.8
8		16	42.12	130.82			29	3.1	834.3
9		18	53.03	130.91			42	56.8	833.7
10		21	4.02	130.99		2	56	49.8	833.0
11		23	15.10	131.08		3	10	42.1	832.3
				131.17					831.5
12	1	25	26.27		+	3	24	33.6	
13		27	37.54	131.27			38	24.2	+ 830.6
14		29	48.92	131.38		3	52	13.8	829.6
15		32	0.40	131.48		4	6	2.4	828.6
16		34	11.99	131.59			19	49.8	827.4
17		36	23.69	131.70			33	36.1	826.3
				131.82					824.9
18	1	38	35.51		+	4	47	21.0	
19		40	47.45	131.94		5	1	4.5	+ 823.5
20		42	59.51	132.06			14	46.6	822.1
21		45	11.70	132.19			28	27.1	820.5
22		47	24.02	132.32			42	6.0	818.9
23		49	36.48	132.46		5	55	43.2	817.2
				132.59					815.5

7月4日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	1	51	49.07		+	6	9	18.7	
1		54	1.80	132.73			22	52.3	+ 813.6
2		56	14.68	132.88			36	23.9	811.6
3	1	58	27.71	133.03		6	49	53.5	809.6
4	2	0	40.89	133.18		7	3	21.0	807.5
5		2	54.23	133.34			16	46.2	805.2
				133.49					802.9
6	2	5	7.72		+	7	30	9.1	
7		7	21.38	133.66			43	29.6	+ 800.5
8		9	35.19	133.81		7	56	47.7	798.1
9		11	49.17	133.98		8	10	3.3	795.6
10		14	3.33	134.16			23	16.3	793.0
11		16	17.66	134.33			36	26.6	790.3
				134.51					787.4
12	2	18	32.17		+	8	49	34.0	
13		20	46.86	134.69		9	2	38.6	+ 784.6
14		23	1.73	134.87			15	40.2	781.6
15		25	16.79	135.06			28	38.8	778.6
16		27	32.03	135.24			41	34.2	775.4
17		29	47.46	135.43		9	54	26.4	772.2
				135.63					768.9
18	2	32	3.09		+10		7	15.3	
19		34	18.92	135.83			20	0.8	+ 765.5
20		36	34.94	136.02			32	42.9	762.1
21		38	51.16	136.22			45	21.4	758.5
22		41	7.59	136.43		10	57	56.2	754.8
23		43	24.23	136.64		11	10	27.3	751.1
24	2	45	41.07	136.84	+11	22		54.6	+ 747.3

世界時	赤經			赤緯			
	7 月 5 日						
h	h	m	s	s	°	′	″	″
0	2	45	41.07	137.05	+11	22	54.6	+743.4
1		47	58.12	137.27		35	18.0	739.4
2		50	15.39	137.48		47	37.4	735.4
3		52	32.87	137.69	11	59	52.8	731.3
4		54	50.56	137.91	12	12	4.1	727.0
5		57	8.47	138.13		24	11.1	722.7
6	2	59	26.60	138.36	+12	36	13.8	+718.2
7	3	1	44.96	138.58		48	12.0	713.7
8		4	3.54	138.80	13	0	5.7	709.1
9		6	22.34	139.03		11	54.8	704.5
10		8	41.37	139.25		23	39.3	699.7
11		11	0.62	139.48		35	19.0	694.9
12	3	13	20.10	139.71	+13	46	53.9	+690.0
13		15	39.81	139.95		58	23.9	684.9
14		17	59.76	140.18	14	9	48.8	679.9
15		20	19.94	140.41		21	8.7	674.7
16		22	40.35	140.64		32	23.4	669.4
17		25	0.99	140.87		43	32.8	664.1
18	3	27	21.86	141.11	+14	54	36.9	+658.7
19		29	42.97	141.34	15	5	35.6	653.1
20		32	4.31	141.57		16	28.7	647.6
21		34	25.88	141.81		27	16.3	641.9
22		36	47.69	142.05		37	58.2	636.2
23		39	9.74	142.28		48	34.4	630.4
	7 月 6 日							
0	3	41	32.02	142.51	+15	59	4.8	+624.4
1		43	54.53	142.75	16	9	29.2	618.4
2		46	17.28	142.98		19	47.6	612.3
3		48	40.26	143.22		29	59.9	606.2
4		51	3.48	143.45		40	6.1	599.9
5		53	26.93	143.68		50	6.0	593.6
6	3	55	50.61	143.92	+16	59	59.6	+587.2
7	3	58	14.53	144.14	17	9	46.8	580.7
8	4	0	38.67	144.37		19	27.5	574.2
9		3	3.04	144.59		29	1.7	567.5
10		5	27.63	144.82		38	29.2	560.9
11		7	52.45	145.04		47	50.1	554.1
12	4	10	17.49	145.27	+17	57	4.2	+547.3
13		12	42.76	145.49	18	6	11.5	540.3
14		15	8.25	145.70		15	11.8	533.3
15		17	33.95	145.92		24	5.1	526.3
16		19	59.87	146.14		32	51.4	519.1
17		22	26.01	146.35		41	30.5	511.9
18	4	24	52.36	146.56	+18	50	2.4	+504.6
19		27	18.92	146.76	18	58	27.0	497.2
20		29	45.68	146.96	19	6	44.2	489.9
21		32	12.64	147.16		14	54.1	482.4
22		34	39.80	147.36		22	56.5	474.8
23		37	7.16	147.56		30	51.3	467.2
	7 月 7 日							
0	4	39	34.72	147.75	+19	38	38.5	+459.6
1		42	2.47	147.93		46	18.1	451.7
2		44	30.40	148.12	19	53	49.8	444.0
3		46	58.52	148.31	20	1	13.8	436.2
4		49	26.83	148.48		8	30.0	428.3
5		51	55.31	148.66		15	38.3	420.2
6	4	54	23.97	148.82	+20	22	38.5	+412.2
7		56	52.79	148.98		29	30.7	404.1
8	4	59	21.77	149.15		36	14.8	396.0
9	5	1	50.92	149.30		42	50.8	387.8
10		4	20.22	149.45		49	18.6	379.5
11		6	49.67	149.60	20	55	38.1	+371.3
12	5	9	19.27		+21	1	49.4	

世界時	赤經			赤緯			
	7 月 7 日						
h	h	m	s	s	°	′	″	″
12	5	9	19.27	149.74	+21	1	49.4	+362.9
13		11	49.01	149.88		7	52.3	354.5
14		14	18.89	150.01		13	46.8	346.1
15		16	48.90	150.13		19	32.9	337.6
16		19	19.03	150.26		25	10.5	329.1
17		21	49.29	150.37		30	39.6	320.6
18	5	24	19.66	150.48	+21	36	0.2	+311.9
19		26	50.14	150.59		41	12.1	303.3
20		29	20.73	150.69		46	15.4	294.6
21		31	51.42	150.78		51	10.0	285.9
22		34	22.20	150.87	21	55	55.9	277.2
23		36	53.07	150.94	22	0	33.1	268.4
	7 月 8 日							
0	5	39	24.01	151.02	+22	5	1.5	+259.6
1		41	55.03	151.10		9	21.1	250.7
2		44	26.13	151.16		13	31.8	241.8
3		46	57.29	151.21		17	33.6	233.0
4		49	28.50	151.26		21	26.6	224.1
5		51	59.76	151.31		25	10.7	215.1
6	5	54	31.07	151.34	+22	28	45.8	+206.2
7		57	2.41	151.38		32	12.0	197.2
8	5	59	33.79	151.40		35	29.2	188.2
9	6	2	5.19	151.42		38	37.4	179.2
10		4	36.61	151.43		41	36.6	170.2
11		7	8.04	151.44		44	26.8	161.2
12	6	9	39.48	151.43	+22	47	8.0	+152.1
13		12	10.91	151.43		49	40.1	143.1
14		14	42.34	151.41		52	3.2	134.0
15		17	13.75	151.39		54	17.2	125.0
16		19	45.14	151.36		56	22.2	115.9
17		22	16.50	151.32	22	58	18.1	106.9
18	6	24	47.82	151.28	+23	0	5.0	+ 97.8
19		27	19.10	151.23		1	42.8	88.8
20		29	50.33	151.18		3	11.6	79.7
21		32	21.51	151.11		4	31.3	70.7
22		34	52.62	151.04		5	42.0	61.6
23		37	23.66	150.96		6	43.6	52.6
	7 月 9 日							
0	6	39	54.62	150.88	+23	7	36.2	+ 43.6
1		42	25.50	150.78		8	19.8	34.6
2		44	56.28	150.69		8	54.4	25.7
3		47	26.97	150.58		9	20.1	16.6
4		49	57.55	150.48		9	36.7	7.6
5		52	28.03	150.36		9	44.3	− 1.3
6	6	54	58.39	150.23	+23	9	43.0	− 10.2
7		57	28.62	150.10		9	32.8	19.0
8	6	59	58.72	149.96		9	13.8	27.9
9	7	2	28.68	149.82		8	45.9	36.7
10		4	58.50	149.67		8	9.2	45.6
11		7	28.17	149.50		7	23.6	54.3
12	7	9	57.67	149.34	+23	6	29.3	− 63.1
13		12	27.01	149.18		5	26.2	71.8
14		14	56.19	149.00		4	14.4	80.5
15		17	25.19	148.81		2	53.9	89.1
16		19	54.00	148.62	23	1	24.8	97.7
17		22	22.62	148.43	22	59	47.1	106.3
18	7	24	51.05	148.23	+22	58	0.8	−114.8
19		27	19.28	148.02		56	6.0	123.3
20		29	47.30	147.81		54	2.7	131.7
21		32	15.11	147.60		51	51.0	140.1
22		34	42.71	147.37		49	30.9	148.5
23		37	10.08	147.15		47	2.4	−156.9
24	7	39	37.23		+22	44	25.5	

世界時	赤經			赤緯			
	7 月 10 日						
h	h	m	s	s	°	′	″	″
0	7	39	37.23	146.91	+22	44	25.5	−165.1
1		42	4.14	146.67		41	40.4	173.3
2		44	30.81	146.42		38	47.1	181.4
3		46	57.23	146.18		35	45.7	189.6
4		49	23.41	145.93		32	36.1	197.6
5		51	49.34	145.66		29	18.5	205.6
6	7	54	15.00	145.40	+22	25	52.9	−213.5
7		56	40.40	145.13		22	19.4	221.5
8	7	59	5.53	144.86		18	37.9	229.3
9	8	1	30.39	144.58		14	48.6	237.1
10		3	54.97	144.31		10	51.5	244.8
11		6	19.28	144.02		6	46.7	252.4
12	8	8	43.30	143.73	+22	2	34.3	−260.1
13		11	7.03	143.43	21	58	14.2	267.6
14		13	30.46	143.14		53	46.6	275.1
15		15	53.60	142.84		49	11.5	282.5
16		18	16.44	142.53		44	29.0	289.8
17		20	38.97	142.23		39	39.2	297.1
18	8	23	1.20	141.92	+21	34	42.1	−304.3
19		25	23.12	141.61		29	37.8	311.5
20		27	44.73	141.29		24	26.3	318.6
21		30	6.02	140.97		19	7.7	325.6
22		32	26.99	140.65		13	42.1	332.6
23		34	47.64	140.32		8	9.5	339.5
	7 月 11 日							
0	8	37	7.96	140.00	+21	2	30.0	−346.3
1		39	27.96	139.67	20	56	43.7	353.1
2		41	47.63	139.34		50	50.6	359.8
3		44	6.97	139.00		44	50.8	366.4
4		46	25.97	138.67		38	44.4	372.9
5		48	44.64	138.33		32	31.5	379.4
6	8	51	2.97	138.00	+20	26	12.1	−385.8
7		53	20.97	137.65		19	46.3	392.1
8		55	38.62	137.31		13	14.2	398.4
9	8	57	55.93	136.97	20	6	35.8	404.6
10	9	0	12.90	136.62	19	59	51.2	410.7
11		2	29.52	136.28		53	0.5	416.8
12	9	4	45.80	135.94	+19	46	3.7	−422.8
13		7	1.74	135.59		39	0.9	428.7
14		9	17.33	135.25		31	52.2	434.5
15		11	32.58	134.88		24	37.7	440.3
16		13	47.46	134.54		17	17.4	446.0
17		16	2.00	134.19		9	51.4	451.6
18	9	18	16.19	133.84	+19	2	19.8	−457.2
19		20	30.03	133.50	18	54	42.6	462.6
20		22	43.53	133.14		47	0.0	468.0
21		24	56.67	132.80		39	12.0	473.4
22		27	9.47	132.45		31	18.6	478.7
23		29	21.92	132.10		23	19.9	483.9
	7 月 12 日							
0	9	31	34.02	131.75	+18	15	16.0	−489.0
1		33	45.77	131.41		18	7	7.0	494.0
2		35	57.18	131.05	17	58	53.0	499.0
3		38	8.23	130.71		50	34.0	504.0
4		40	18.94	130.36		42	10.0	508.8
5		42	29.30	130.02		33	41.2	513.5
6	9	44	39.32	129.68	+17	25	7.7	−518.3
7		46	49.00	129.33		16	29.4	522.9
8		48	58.33	129.00	17	7	46.5	527.4
9		51	7.33	128.65	16	58	59.1	531.9
10		53	15.98	128.32		50	7.2	536.3
11		55	24.30	127.97		41	10.9	540.7
12	9	57	32.27		+16	32	10.2	

世界時	赤經			赤緯			
	7 月 12 日						
h	h	m	s	s	°	′	″	″
12	9	57	32.27	127.64	+16	32	10.2	−545.0
13	9	59	39.91	127.31		23	5.2	549.2
14	10	1	47.22	126.97		13	56.0	553.4
15		3	54.19	126.63	16	4	42.6	557.4
16		6	0.82	126.30	15	55	25.2	561.5
17		8	7.12	125.98		46	3.7	565.4
18	10	10	13.10	125.66	+15	36	38.3	−569.3
19		12	18.76	125.33		27	9.0	573.2
20		14	24.09	125.01		17	35.8	576.9
21		16	29.10	124.69	15	7	58.9	580.5
22		18	33.79	124.38	14	58	18.4	584.1
23		20	38.17	124.06		48	34.3	587.7
	7 月 13 日							
0	10	22	42.23	123.74	+14	38	46.6	−591.2
1		24	45.97	123.43		28	55.4	594.6
2		26	49.40	123.13		19	0.8	598.0
3		28	52.53	122.82	14	9	2.8	601.4
4		30	55.35	122.52	13	59	1.4	604.6
5		32	57.87	122.22		48	56.8	607.7
6	10	35	0.09	121.92	+13	38	49.1	−610.9
7		37	2.01	121.63		28	38.2	613.9
8		39	3.64	121.33		18	24.3	616.9
9		41	4.97	121.04	13	8	7.4	619.9
10		43	6.01	120.75	12	57	47.5	622.8
11		45	6.76	120.47		47	24.7	625.5
12	10	47	7.23	120.20	+12	36	59.2	−628.3
13		49	7.43	119.91		26	30.9	631.0
14		51	7.34	119.64		15	59.9	633.7
15		53	6.98	119.36	12	5	26.2	636.2
16		55	6.34	119.10	11	54	50.0	638.8
17		57	5.44	118.83		44	11.2	641.3
18	10	59	4.27	118.58	+11	33	29.9	−643.7
19	11	1	2.85	118.31		12	46.2	646.0
20		3	1.16	118.06		12	0.2	648.3
21		4	59.22	117.80	11	1	11.9	650.6
22		6	57.02	117.55	10	50	21.3	652.8
23		8	54.57	117.31		39	28.5	655.0
	7 月 14 日							
0	11	10	51.88	117.07	+10	28	33.5	−657.1
1		12	48.95	116.83		17	36.4	659.1
2		14	45.78	116.59	10	6	37.3	661.0
3		16	42.37	116.35	9	55	36.3	663.0
4		18	38.72	116.13		44	33.3	664.9
5		20	34.85	115.91		33	28.4	666.8
6	11	22	30.76	115.68	+ 9	22	21.6	−668.5
7		24	26.44	115.46		11	13.1	670.3
8		26	21.90	115.25	9	0	2.8	672.0
9		28	17.15	115.04	8	48	50.8	673.6
10		30	12.19	114.83		37	37.2	675.2
11		32	7.02	114.63		26	22.0	676.7
12	11	34	1.65	114.43	+ 8	15	5.3	−678.2
13		35	56.08	114.23		8	47.1	679.7
14		37	50.31	114.03	7	52	27.4	681.1
15		39	44.34	113.84		41	6.3	682.5
16		41	38.18	113.66		29	43.8	683.8
17		43	31.84	113.47		18	20.0	684.9
18	11	45	25.31	113.30	+ 7	6	55.1	−686.2
19		47	18.61	113.12	6	55	28.9	687.4
20		49	11.73	112.95		44	1.5	688.6
21		51	4.68	112.79		32	32.9	689.6
22		52	57.47	112.62		21	3.3	690.6
23		54	50.09	112.46	6	9	32.7	−691.6
24	11	56	42.55		+ 5	58	1.1	

7 月 15 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	11	56	42.55	112.31	+ 5	58	1.1		−692.5
1	11	58	34.86			46	28.6		693.5
2	12	0	27.01	112.15		34	55.1		694.4
3		2	19.01	112.00		23	20.7		695.1
4		4	10.87	111.86		11	45.6		695.9
5		6	2.59	111.72	5	0	9.7		696.7
				111.58					
6	12	7	54.17		+ 4	48	33.0		
7		9	45.61	111.44		36	55.6		−697.4
8		11	36.93	111.32		25	17.5		698.1
9		13	28.12	111.19		13	38.8		698.7
10		15	19.19	111.07	4	1	59.6		699.2
11		17	10.14	110.95	3	50	19.9		699.7
				110.84					700.3
12	12	19	0.98		+ 3	38	39.6		
13		20	51.71	110.73		26	58.8		−700.8
14		22	42.33	110.62		15	17.7		701.1
15		24	32.85	110.52	3	3	36.2		701.5
16		26	23.27	110.42	2	51	54.3		701.9
17		28	13.59	110.32		40	12.1		702.2
				110.23					702.4
18	12	30	3.82		+ 2	28	29.7		
19		31	53.97	110.15		16	47.0		−702.7
20		33	44.03	110.06	2	5	4.2		702.8
21		35	34.02	109.99	1	53	21.2		703.0
22		37	23.92	109.90		41	38.1		703.1
23		39	13.75	109.83		29	54.9		703.2
				109.77					703.2

7 月 16 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	12	41	3.52		+ 1	18	11.7		
1		42	53.23	109.71		1	6	28.5	−703.2
2		44	42.87	109.64		0	54	45.3	703.2
3		46	32.46	109.59			43	2.2	703.1
4		48	21.99	109.53			31	19.2	703.0
5		50	11.47	109.48			19	36.3	702.9
				109.44					702.6
6	12	52	0.91		+ 0	7	53.7		
7		53	50.32	109.41	− 0	3	48.7		−702.4
8		55	39.68	109.36		15	30.9		702.2
9		57	29.01	109.33		27	12.8		701.9
10	12	59	18.31	109.30		38	54.3		701.5
11	13	1	7.58	109.27		0	50	35.5	701.2
				109.25					700.7
12	13	2	56.83		− 1	2	16.2		
13		4	46.07	109.24			13	56.5	−700.3
14		6	35.29	109.22			25	36.4	699.9
15		8	24.50	109.21			37	15.8	699.4
16		10	13.70	109.20		1	48	54.6	698.8
17		12	2.91	109.21		2	0	32.9	698.3
				109.20					697.6
18	13	13	52.11		− 2	12	10.5		
19		15	41.32	109.21			23	47.5	−697.0
20		17	30.53	109.21			35	23.9	696.4
21		19	19.76	109.23			46	59.5	695.6
22		21	9.00	109.24		2	58	34.3	694.8
23		22	58.27	109.27		3	10	8.3	694.0
				109.29					693.2

7 月 17 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	12	49	42.96		− 3	21	41.5		
1		52	0.37	109.41		33	13.8		−692.3
2		54	18.04	109.67		44	45.3		691.5
3		56	35.96	109.92		3	56	15.9	690.6
4	12	58	54.11	110.15		4	7	45.5	689.6
5	13	1	12.50	110.39			19	14.1	688.6
				110.63					687.5
6	13	3	31.13		− 4	30	41.6		
7		5	50.00	110.87			42	8.1	−686.5
8		8	9.10	111.10		4	53	33.5	685.4
9		10	28.43	111.33		5	4	57.7	684.2
10		12	47.98	111.55			16	20.7	683.0
11		15	7.75	111.77			27	42.5	681.8
				112.00					
12	13	17	27.75		− 5	39	3.1		−680.6

7 月 17 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
12	13	46	42.29	109.95	− 5	39	3.1		−679.4
13		48	32.24			5	50	22.5	678.0
14		50	22.26	110.02		6	1	40.5	676.6
15		52	12.36	110.10			12	57.1	675.2
16		54	2.54	110.18			24	12.3	673.8
17		55	52.81	110.27			35	26.1	672.3
				110.37					
18	13	57	43.18		− 6	46	38.4		
19	13	59	33.64	110.46		6	57	49.2	−670.8
20	14	1	24.20	110.56		7	8	58.5	669.3
21		3	14.86	110.66			20	6.2	667.7
22		5	5.62	110.76			31	12.3	666.1
23		6	56.50	110.88			42	16.7	664.4
				110.99					662.8

7 月 18 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	14	8	47.49		− 7	53	19.5		
1		10	38.60	111.11		8	4	20.6	−661.1
2		12	29.82	111.22			15	19.8	659.2
3		14	21.17	111.35			26	17.3	657.5
4		16	12.64	111.47			37	13.0	655.7
5		18	4.24	111.60			48	6.8	653.8
				111.74					651.8
6	14	19	55.98		− 8	58	58.6		
7		21	47.86	111.88		9	9	48.5	−649.9
8		23	39.88	112.02			20	36.3	647.8
9		25	32.04	112.16			31	22.2	645.9
10		27	24.34	112.30			42	6.0	643.8
11		29	16.80	112.46		9	52	47.7	641.7
				112.62					639.5
12	14	31	9.42		−10	3	27.2		
13		33	2.19	112.77			14	4.6	−637.4
14		34	55.12	112.93			24	39.7	635.1
15		36	48.22	113.10			35	12.6	632.9
16		38	41.49	113.27			45	43.1	630.5
17		40	34.92	113.43		10	56	11.3	628.2
				113.61					625.8
18	14	42	28.53		−11	6	37.1		
19		44	22.33	113.80			17	0.4	−623.3
20		46	16.30	113.97			27	21.3	620.9
21		48	10.45	114.15			37	39.7	618.4
22		50	4.79	114.34			47	55.4	615.7
23		51	59.32	114.53		11	58	8.6	613.2
				114.73					610.5

7 月 19 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	14	53	54.05		−12	8	19.1		
1		55	48.98	114.93		18	27.0		−607.9
2		57	44.10	115.12		28	32.1		605.1
3	14	59	39.43	115.33		38	34.4		602.3
4	15	1	34.95	115.52		48	33.9		599.5
5		3	30.68	115.73	12	58	30.6		596.7
				115.95					593.7
6	15	5	26.63		−13	8	24.3		
7		7	22.80	116.17		18	15.1		−590.8
8		9	19.18	116.38		28	2.8		587.7
9		11	15.79	116.61		37	47.5		584.7
10		13	12.62	116.83		47	29.2		581.7
11		15	9.67	117.05	13	57	7.7		578.5
				117.27					575.3
12	15	17	6.94		−14	6	43.0		
13		19	4.45	117.51		16	15.0		−572.0
14		21	2.20	117.75		25	43.8		568.8
15		23	0.18	117.98		35	9.3		565.5
16		24	58.40	118.22		44	31.4		562.1
17		26	56.86	118.46	14	53	50.1		558.7
				118.70					555.3
18	15	28	55.56		−15	3	5.4		
19		30	54.51	118.95		12	17.1		−551.7
20		32	53.71	119.20		21	25.2		548.1
21		34	53.16	119.45		30	29.7		544.5
22		36	52.86	119.70		39	30.6		540.9
23		38	52.82	119.96		48	27.8		537.2
24	15	40	53.04	120.22	−15	57	21.1		−533.3

7 月 20 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	15	40	53.04	120.48	−15	57	21.1		−529.6
1		42	53.52			16	6	10.7	
2		44	54.26	120.74			14	56.4	525.7
3		46	55.26	121.00			23	38.2	521.8
4		48	56.53	121.27			32	16.0	517.8
5		50	58.07	121.54			40	49.8	513.8
				121.81					509.7
6	15	52	59.88		−16	49	19.5		
7		55	1.96	122.08		16	57	45.1	−505.6
8		57	4.31	122.35		17	6	6.5	501.4
9	15	59	6.94	122.63			14	23.7	497.2
10	16	1	9.85	122.91			22	36.7	493.0
11		3	13.04	123.19			30	45.3	488.6
				123.46					484.2
12	16	5	16.50		−17	38	49.5		
13		7	20.25	123.75			46	49.2	−479.7
14		9	24.28	124.03		17	54	44.5	475.3
15		11	28.60	124.32		18	2	35.3	470.8
16		13	33.20	124.60			10	21.5	466.2
17		15	38.08	124.88			18	3.0	461.5
				125.17					456.7
18	16	17	43.25		−18	25	39.7		
19		19	48.71	125.46			33	11.7	−452.0
20		21	54.47	125.76			40	38.9	447.2
21		24	0.51	126.04			48	1.2	442.3
22		26	6.84	126.33		18	55	18.6	437.4
23		28	13.47	126.63		19	2	31.0	432.4
				126.92					427.3

7 月 21 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	16	30	20.39		−19	9	38.3		
1		32	27.60	127.21		16	40.6		−422.3
2		34	35.11	127.51		23	37.7		417.1
3		36	42.91	127.80		30	29.6		411.9
4		38	51.00	128.09		37	16.2		406.6
5		40	59.39	128.39		43	57.6		401.4
				128.69					396.0
6	16	43	8.08		−19	50	33.6		
7		45	17.06	128.98		19	57	4.1	−390.5
8		47	26.34	129.28		20	3	29.1	385.0
9		49	35.91	129.57			9	48.6	379.5
10		51	45.77	129.86			16	2.6	374.0
11		53	55.93	130.16			22	10.9	368.3
				130.46					362.5
12	16	56	6.39		−20	28	13.4		
13	16	58	17.14	130.75			34	10.2	−356.8
14	17	0	28.18	131.04			40	1.2	351.0
15		2	39.51	131.33			45	46.3	345.1
16		4	51.14	131.63			51	25.5	339.2
17		7	3.05	131.91		20	56	58.7	333.2
				132.21					327.2
18	17	9	15.26		−21	2	25.9		
19		11	27.76	132.50			7	47.0	−321.1
20		13	40.55	132.79			13	1.9	314.9
21		15	53.62	133.07			18	10.6	308.7
22		18	6.97	133.35			23	13.1	302.5
23		20	20.61	133.64			28	9.3	296.2
				133.93					289.8

7 月 22 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	17	22	34.54		−21	32	59.1		
1		24	48.75	134.21		37	42.4		−283.3
2		27	3.23	134.48		42	19.3		276.9
3		29	17.99	134.76		46	49.7		270.4
4		31	33.03	135.04		51	13.4		263.7
5		33	48.34	135.31		55	30.6		257.2
				135.58					250.5
6	17	36	3.92		−21	59	41.1		
7		38	19.78	135.86	22	3	44.8		−243.7
8		40	35.89	136.11		7	41.7		236.9
9		42	52.27	136.38		11	31.8		230.1
10		45	8.91	136.64		15	15.1		223.3
11		47	25.81	136.90		18	51.4		216.3
12	17	49	42.96	137.15	−22	22	20.7		−209.3

7 月 22 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
12	17	49	42.96	137.41	−22	22	20.7		
13		52	0.37			25	43.0		−202.3
14		54	18.04	137.67		28	58.2		195.2
15		56	35.96	137.92		32	6.3		188.1
16	17	58	54.11	138.15		35	7.2		180.9
17	18	1	12.50	138.39		38	0.9		173.7
				138.63					166.4
18	18	3	31.13		−22	40	47.3		
19		5	50.00	138.87		43	26.4		−159.1
20		8	9.10	139.10		45	58.1		151.7
21		10	28.43	139.33		48	22.4		144.3
22		12	47.98	139.55		50	39.3		136.9
23		15	7.75	139.77		52	48.8		129.5
				140.00					121.9

7 月 23 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	18	17	27.75		−22	54	50.7		
1		19	47.96	140.21		56	45.0		−114.3
2		22	8.37	140.41		22	58	31.7	106.7
3		24	28.99	140.62		23	0	10.7	99.0
4		26	49.81	140.82			1	42.1	91.4
5		29	10.82	141.01			3	5.8	83.7
				141.21					75.9
6	18	31	32.03		−23	4	21.7		
7		33	53.43	141.40		5	29.8		− 68.1
8		36	15.01	141.58		6	30.1		60.3
9		38	36.77	141.76		7	22.6		52.5
10		40	58.70	141.93		8	7.2		44.6
11		43	20.81	142.11		8	43.9		36.7
				142.26					28.7
12	18	45	43.07		−23	9	12.6		
13		48	5.50	142.43		9	33.4		− 20.8
14		50	28.08	142.58		9	46.1		12.7
15		52	50.82	142.74		9	50.8		− 4.7
16		55	13.70	142.88		9	47.4		+ 3.4
17		57	36.73	143.03		9	36.0		11.4
				143.16					19.5
18	18	59	59.89		−23	9	16.5		
19	19	2	23.18	143.29		8	48.8		+ 27.7
20		4	46.59	143.41		8	13.0		35.8
21		7	10.13	143.54		7	29.0		44.0
22		9	33.78	143.65		6	36.9		52.1
23		11	57.55	143.77		5	36.6		60.3
				143.87					68.5

7 月 24 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″	
0	19	14	21.42		−23	4	28.1		
1		16	45.39	143.97		3	11.3		+ 76.8
2		19	9.46	144.07		1	46.3		85.0
3		21	33.62	144.16	23	0	13.0		93.3
4		23	57.85	144.23	22	58	31.5		101.5
5		26	22.17	144.32		56	41.7		109.8
				144.39					118.1
6	19	28	46.56		−22	54	43.6		
7		31	11.02	144.46		52	37.2		+ 126.4
8		33	35.53	144.51		50	22.5		134.7
9		36	0.10	144.57		47	59.6		142.9
10		38	24.73	144.63		45	28.3		151.3
11		40	49.41	144.68		42	48.7		159.6
				144.72					167.9
12	19	43	14.13		−22	40	0.8		
13		45	38.88	144.75		37	4.6		+ 176.2
14		48	3.67	144.79		34	0.2		184.4
15		50	28.48	144.81		30	47.5		192.7
16		52	53.31	144.83		27	26.4		201.1
17		55	18.15	144.84		23	57.0		209.4
				144.86					217.6
18	19	57	43.01	144.86	−22	20	19.4		
19	20	0	7.87			16	33.5		+ 225.9
20		2	32.73	144.86		12	39.4		234.1
21		4	57.58	144.85		8	37.1		242.3
22		7	22.42	144.84		4	26.5		250.6
23		9	47.24	144.82	22	0	7.7		258.8
24	20	12	12.05	144.81	−21	55	40.7		+ 267.0

世界時	赤經			赤緯			
	7 月 25 日						
h	h	m	s	s	°	′	″	″
0	20	12	12.05	s	−21	55	40.7	
				144.78				+275.1
1		14	36.83			51	5.6	
				144.75				283.3
2		17	1.58			46	22.3	
				144.72				291.4
3		19	26.30			41	30.9	
				144.67				299.5
4		21	50.97			36	31.4	
				144.63				307.6
5		24	15.60			31	23.8	
				144.58				315.7
6	20	26	40.18		−21	26	8.1	
				144.53		20	44.4	+323.7
7		29	4.71					
				144.46		15	12.7	331.7
8		31	29.17					
				144.40		9	33.0	339.7
9		33	53.57					
				144.34	21	3	45.4	347.6
10		36	17.91					
				144.27	20	57	49.8	355.6
11		38	42.18					
				144.19				363.4
12	20	41	6.37		−20	51	46.4	
				144.11		45	35.1	+371.3
13		43	30.48					
				144.02		39	16.0	379.1
14		45	54.50					
				143.94		32	49.1	386.9
15		48	18.44					
				143.84		26	14.5	394.6
16		50	42.28					
				143.75		19	32.2	402.3
17		53	6.03					
				143.65				410.0
18	20	55	29.68		−20	12	42.2	
				143.54		5	44.6	+417.6
19	20	57	53.22		20			
				143.44	19	58	39.4	425.2
20	21	0	16.66					
				143.33		51	26.7	432.7
21		2	39.99					
				143.22		44	6.6	440.1
22		5	3.21					
				143.10		36	39.0	447.6
23		7	26.31					
				142.97				455.0
	7 月 26 日							
0	21	9	49.28		−19	29	4.0	
				142.85		21	21.7	+462.3
1		12	12.13					
				142.73		13	32.0	469.7
2		14	34.86					
				142.60	19	5	35.1	476.9
3		16	57.46					
				142.47	18	57	31.0	484.1
4		19	19.93					
				142.33		49	19.7	491.3
5		21	42.26					
				142.20				498.3
6	21	24	4.46		−18	41	1.4	
				142.06		32	36.1	+505.3
7		26	26.52					
				141.92		24	3.8	512.3
8		28	48.44					
				141.77		15	24.5	519.3
9		31	10.21					
				141.63	18	6	38.4	526.1
10		33	31.84					
				141.48	17	57	45.5	532.9
11		35	53.32					
				141.32				539.7
12	21	38	14.64		−17	48	45.8	
				141.18		39	39.5	+546.3
13		40	35.82					
				141.02		30	26.6	552.9
14		42	56.84					
				140.87		21	7.1	559.5
15		45	17.71					
				140.70		11	41.1	566.0
16		47	38.41					
				140.55	17	2	8.7	572.4
17		49	58.96					
				140.39				578.8
18	21	52	19.35		−16	52	29.9	
				140.23		42	44.8	+585.1
19		54	39.58					
				140.07		32	53.5	591.3
20		56	59.65					
				139.91		22	56.0	597.5
21	21	59	19.56					
				139.74		12	52.4	603.6
22	22	1	39.30					
				139.57	16	2	42.7	609.7
23		3	58.87					
				139.41				615.7
	7 月 27 日							
0	22	6	18.28		−15	52	27.0	
				139.24		42	5.5	+621.5
1		8	37.52					
				139.08		31	38.2	627.3
2		10	56.60					
				138.91		21	5.1	633.1
3		13	15.51					
				138.75	15	10	26.3	638.8
4		15	34.26					
				138.57	14	59	41.8	644.5
5		17	52.83					
				138.41				650.0
6	22	20	11.24		−14	48	51.8	
				138.24		37	56.3	+655.5
7		22	29.48					
				138.08		26	55.4	660.9
8		24	47.56					
				137.90		15	49.2	666.2
9		27	5.46					
				137.74	14	4	37.8	671.4
10		29	23.20					
				137.57	13	53	21.2	676.6
11		31	40.77					
				137.41	−13	41	59.5	+681.7
12	22	33	58.18					

世界時	赤經			赤緯			
	7 月 27 日						
h	h	m	s	s	°	′	″	″
12	22	33	58.18		−13	41	59.5	
				137.24		30	32.7	+686.8
13		36	15.42					
				137.08		19	1.0	691.7
14		38	32.50					
				136.91	13	7	24.4	696.6
15		40	49.41					
				136.75	12	55	43.1	701.3
16		43	6.16					
				136.59		43	57.1	706.0
17		45	22.75					
				136.43				710.7
18	22	47	39.18		−12	32	6.4	
				136.27		20	11.1	+715.3
19		49	55.45					
				136.10	12	8	11.4	719.7
20		52	11.55					
				135.95	11	56	7.3	724.1
21		54	27.50					
				135.79		43	58.8	728.5
22		56	43.29					
				135.64		31	46.0	732.8
23	22	58	58.93					
				135.48				736.9
	7 月 28 日							
0	23	1	14.41		−11	19	29.1	
				135.33		11	7	8.1	+741.0
1		3	29.74					
				135.18		10	54	43.1	745.0
2		5	44.92					
				135.03		42	14.1	749.0
3		7	59.95					
				134.89		29	41.3	752.8
4		10	14.84					
				134.74		17	4.7	756.6
5		12	29.58					
				134.59				760.3
6	23	14	44.17		−10	4	24.4	
				134.46	9	51	40.5	+763.9
7		16	58.63					
				134.32		38	53.1	767.4
8		19	12.95					
				134.18		26	2.2	770.9
9		21	27.13					
				134.04		13	8.0	774.2
10		23	41.17					
				133.91	9	0	10.5	777.5
11		25	55.08					
				133.78				780.7
12	23	28	8.86		− 8	47	9.8	
				133.65		34	6.0	+783.8
13		30	22.51					
				133.53		20	59.1	786.9
14		32	36.04					
				133.41	8	7	49.2	789.9
15		34	49.45					
				133.29	7	54	36.5	792.7
16		37	2.74					
				133.17		41	21.0	795.5
17		39	15.91					
				133.05				798.2
18	23	41	28.96		− 7	28	2.8	
				132.95		14	41.9	+800.9
19		43	41.91					
				132.83	7	1	18.5	803.4
20		45	54.74					
				132.72	6	47	52.6	805.9
21		48	7.46					
				132.62		34	24.4	808.2
22		50	20.08					
				132.52		20	53.8	810.6
23		52	32.60					
				132.42				812.8
	7 月 29 日							
0	23	54	45.02		− 6	7	21.0	
				132.33		5	53	46.1	+814.9
1		56	57.35					
				132.23		40	9.1	817.0
2	23	59	9.58					
				132.15		26	30.1	820.9
3	0	1	21.73					
				132.06	5	12	49.2	822.6
4		3	33.79					
				131.98	4	59	6.6	824.4
5		5	45.77					
				131.90				
6	0	7	57.67		− 4	45	22.2	
				131.83		31	36.1	+826.1
7		10	9.50					
				131.75		17	48.5	827.6
8		12	21.25					
				131.68	4	3	59.4	829.1
9		14	32.93					
				131.62	3	50	8.8	830.6
10		16	44.55					
				131.55		36	16.9	831.9
11		18	56.10					
				131.49				833.1
12	0	21	7.59		− 3	22	23.8	
				131.44		3	8	29.6	+834.2
13		23	19.03					
				131.38	2	54	34.4	835.2
14		25	30.41					
				131.33		40	38.1	836.3
15		27	41.74					
				131.29		26	40.9	837.2
16		29	53.03					
				131.25	2	12	42.9	838.0
17		32	4.28					
				131.20				838.8
18	0	34	15.48		− 1	58	44.1	
				131.17		44	44.7	+839.4
19		36	26.65					
				131.13		30	44.7	840.0
20		38	37.78					
				131.11		16	44.2	840.5
21		40	48.89					
				131.09	1	2	43.2	841.0
22		42	59.98					
				131.07		0	48	41.9	841.3
23		45	11.05					
				131.05	−	0	34	40.4	+841.5
24	0	47	22.10					

世界時	赤經			赤緯			
	7 月 30 日						
h	h	m	s	s	°	′	″	″
0	0	47	22.10		−	0	34	40.4	
				131.04			20	38.7	+841.7
1		49	33.14					
				131.02		0	6	36.9	841.8
2		51	44.16		−			
				131.02	+	0	7	25.0	841.9
3		53	55.18					
				131.02		21	26.8	841.8
4		56	6.20					
				131.02		35	28.4	841.6
5	0	58	17.22					
				131.02				841.4
6	1	0	28.24		+	0	49	29.8	
				131.03		1	3	30.9	+841.1
7		2	39.27					
				131.04		17	31.6	840.7
8		4	50.31					
				131.06		31	31.8	840.2
9		7	1.37					
				131.08		45	31.5	839.7
10		9	12.45					
				131.10	1	59	30.5	839.0
11		11	23.55					
				131.13				838.3
12	1	13	34.68		+	2	13	28.8	
				131.16		27	26.3	+837.5
13		15	45.84					
				131.19		41	23.0	836.7
14		17	57.03					
				131.24	2	55	18.7	835.7
15		20	8.27					
				131.27	3	9	13.3	834.6
16		22	19.54					
				131.32		23	6.9	833.6
17		24	30.86					
				131.36				832.4
18	1	26	42.22		+	3	36	59.3	
				131.42		3	50	50.4	+831.1
19		28	53.64					
				131.47		4	4	40.1	829.7
20		31	5.11					
				131.54		18	28.4	828.3
21		33	16.65					
				131.59		32	15.2	826.8
22		35	28.24					
				131.66		46	0.4	825.2
23		37	39.90					
				131.74				823.5
	7 月 31 日							
0	1	39	51.64		+	4	59	43.9	
				131.81		5	13	25.7	+821.8
1		42	3.45					
				131.88		27	5.6	819.9
2		44	15.33					
				131.97		40	43.6	818.0
3		46	27.30					
				132.05	5	54	19.7	816.1
4		48	39.35					
				132.14	6	7	53.7	814.0
5		50	51.49					
				132.23				811.8
6	1	53	3.72		+	6	21	25.5	
				132.33		34	55.1	+809.6
7		55	16.05					
				132.42		6	48	22.4	807.3
8		57	28.47					
				132.53		7	1	47.3	804.9
9	1	59	41.00					
				132.62		15	9.8	802.5
10	2	1	53.62					
				132.73		28	29.7	799.9
11		4	6.35					
				132.85				797.2
12	2	6	19.20		+	7	41	46.9	
				132.96		7	55	1.5	+794.6
13		8	32.16					
				133.08		8	8	13.3	791.8
14		10	45.24					
				133.20		21	22.2	788.9
15		12	58.44					
				133.32		34	28.2	786.0
16		15	11.76					
				133.45		8	47	31.2	783.0
17		17	25.21					
				133.58				779.9
18	2	19	38.79		+	9	0	31.1	
				133.71		13	27.8	+776.7
19		21	52.50					
				133.85		26	21.2	773.4
20		24	6.35					
				133.99		39	11.3	770.1
21		26	20.34					
				134.13		51	58.0	766.7
22		28	34.47					
				134.27	10	4	41.3	763.3
23		30	48.74					
				134.42				759.7
	8 月 1 日							
0	2	33	3.16		+10	17	21.0	
				134.57		29	57.1	+756.1
1		35	17.73					
				134.72		42	29.4	752.3
2		37	32.45					
				134.87	10	54	57.9	748.5
3		39	47.32					
				135.03	11	7	22.6	744.7
4		42	2.35					
				135.19		19	43.3	740.7
5		44	17.54					
				135.35				736.7
6	2	46	32.89		+11	32	0.0	
				135.51		44	12.6	+732.6
7		48	48.40					
				135.68	11	56	21.1	728.5
8		51	4.08					
				135.85	12	8	25.3	724.2
9		53	19.93					
				136.02		20	25.1	719.8
10		55	35.95					
				136.20		32	20.5	715.4
11	2	57	52.15					
				136.37				+711.0
12	3	0	8.52		+12	44	11.5	

世界時	赤經			赤緯			
	8 月 1 日						
h	h	m	s	s	°	′	″	″
12	3	0	8.52		+12	44	11.5	
				136.54				+706.4
13		2	25.06			55	57.9	
				136.72		7	39.6	701.7
14		4	41.78		13			
				136.91		19	16.7	697.1
15		6	58.69					
				137.08		30	49.0	692.3
16		9	15.77					
				137.26		42	16.4	687.4
17		11	33.03					
				137.45				682.5
18	3	13	50.48		+13	53	38.9	
				137.64		4	56.4	+677.5
19		16	8.12		14			
				137.82		16	8.9	672.5
20		18	25.94					
				138.02		27	16.2	667.3
21		20	43.96					
				138.20		38	18.3	662.1
22		23	2.16					
				138.39	14	49	15.1	656.8
23		25	20.55					
				138.58				651.4
	8 月 2 日							
0	3	27	39.13		+15	0	6.5	
				138.77		10	52.4	+645.9
1		29	57.90					
				138.97		21	32.8	640.4
2		32	16.87					
				139.16		32	7.7	634.9
3		34	36.03					
				139.36		42	36.9	629.2
4		36	55.39					
				139.56	15	53	0.4	623.5
5		39	14.95					
				139.75				617.7
6	3	41	34.70		+16	3	18.1	
				139.94		13	29.9	+611.8
7		43	54.64					
				140.14		23	35.7	605.8
8		46	14.78					
				140.34		33	35.5	599.8
9		48	35.12					
				140.53		43	29.3	593.8
10		50	55.65					
				140.73	16	53	17.0	587.7
11		53	16.38					
				140.92				581.4
12	3	55	37.30		+17	2	58.4	
				141.12		12	33.6	+575.2
13	3	57	58.42					
				141.31		22	2.4	568.8
14	4	0	19.73					
				141.51		31	24.8	562.4
15		2	41.24					
				141.71		40	40.7	555.9
16		5	2.95					
				141.90		49	50.1	549.4
17		7	24.85					
				142.09				542.8
18	4	9	46.94		+17	58	52.9	
				142.28		18	7	49.0	+536.1
19		12	9.22					
				142.48		16	38.3	529.3
20		14	31.70					
				142.67		25	20.8	522.5
21		16	54.37					
				142.85		33	56.5	515.7
22		19	17.22					
				143.03		42	25.3	508.8
23		21	40.25					
				143.21				501.8
	8 月 3 日							
0	4	24	3.46		+18	50	47.1	
				143.40		18	59	1.9	+494.8
1		26	26.86					
				143.58		19	7	9.5	487.6
2		28	50.44					
				143.77		15	10.0	480.5
3		31	14.21					
				143.94		23	3.3	473.3
4		33	38.15					
				144.12		30	49.3	466.0
5		36	2.27					
				144.29				458.7
6	4	38	26.56		+19	38	28.0	
				144.46		45	59.3	+451.3
7		40	51.02					
				144.63	19	53	23.2	443.9
8		43	15.65					
				144.79	20	0	39.6	436.4
9		45	40.44					
				144.96		7	48.4	428.8
10		48	5.40					
				145.12		14	49.6	421.2
11		50	30.52					
				145.28				413.6
12	4	52	55.80		+20	21	43.2	
				145.43		28	29.1	+405.9
13		55	21.23					
				145.59		35	7.3	398.2
14	4	57	46.82					
				145.74		41	37.7	390.4
15	5	0	12.56					
				145.87		48	0.2	382.5
16		2	38.43					
				146.02	20	54	14.9	374.7
17		5	4.45					
				146.16				366.7
18	5	7	30.61		+21	0	21.6	
				146.29		6	20.4	+358.8
19		9	56.90					
				146.42		12	11.2	350.8
20		12	23.32					
				146.55		17	53.9	342.7
21		14	49.87					
				146.67		23	28.5	334.6
22		17	16.54					
				146.79		28	54.9	326.4
23		19	43.33					
				146.90	+21	34	13.1	+318.2
24	5	22	10.23					

世界時	赤經				赤緯			
	8月 4日							
h	h	m	s	s	°	′	″	″
0	5	22	10.23	147.02	+21	34	13.1	+310.1
1		24	37.25	147.12		39	23.2	301.9
2		27	4.37	147.22		44	25.1	293.6
3		29	31.59	147.32		49	18.7	285.2
4		31	58.91	147.42		54	3.9	276.9
5		34	26.33	147.50	21	58	40.8	268.5
6	5	36	53.83		+22	3	9.3	
7		39	21.41	147.58		7	29.4	+260.1
8		41	49.07	147.66		11	41.1	251.7
9		44	16.81	147.74		15	44.3	243.2
10		46	44.60	147.79		19	39.1	234.8
11		49	12.46	147.86		23	25.4	226.3
				147.92				217.8
12	5	51	40.38		+22	27	3.2	
13		54	8.36	147.98		30	32.4	+209.2
14		56	36.38	148.02		33	53.0	200.6
15	5	59	4.44	148.06		37	5.1	192.1
16	6	1	32.54	148.10		40	8.5	183.4
17		4	0.67	148.13		43	3.4	174.9
				148.16				166.2
18	6	6	28.83		+22	45	49.6	
19		8	57.01	148.18		48	27.2	+157.6
20		11	25.20	148.19		50	56.1	148.9
21		13	53.40	148.20		53	16.4	140.3
22		16	21.59	148.19		55	28.0	131.6
23		18	49.79	148.20		57	30.9	122.9
				148.19				114.3
	8月 5日							
0	6	21	17.98		+22	59	25.2	
1		23	46.16	148.18		23	1	10.8 +105.6
2		26	14.32	148.16			2	47.7 96.9
3		28	42.45	148.13			4	15.9 88.2
4		31	10.55	148.10			5	35.3 79.4
5		33	38.61	148.06			6	46.1 70.8
				148.01				62.1
6	6	36	6.62		+23	7	48.2	
7		38	34.58	147.96		8	41.7	+ 53.5
8		41	2.49	147.91		9	26.5	44.8
9		43	30.34	147.85		10	2.6	36.1
10		45	58.12	147.78		10	30.1	27.5
11		48	25.83	147.71		10	48.9	18.8
				147.63				10.2
12	6	50	53.46		+23	10	59.1	
13		53	21.00	147.54		11	0.7	+ 1.6
14		55	48.45	147.45		10	53.8	− 6.9
15	6	58	15.80	147.35		10	38.2	15.6
16	7	0	43.06	147.26		10	14.0	24.2
17		3	10.21	147.15		9	41.3	32.7
				147.02				41.2
18	7	5	37.23		+23	9	0.1	
19		8	4.14	146.91		8	10.3	− 49.8
20		10	30.92	146.78		7	12.1	58.2
21		12	57.58	146.66		6	5.4	66.7
22		15	24.10	146.52		4	50.3	75.1
23		17	50.47	146.37		3	26.8	83.5
				146.23				91.8
	8月 6日							
0	7	20	16.70		+23	1	55.0	
1		22	42.78	146.08		23	0	14.8 − 100.2
2		25	8.69	145.91		22	58	26.2 108.6
3		27	34.44	145.75			56	29.4 116.8
4		30	0.02	145.58			54	24.4 125.0
5		32	25.43	145.41			52	11.1 133.3
				145.23				141.4
6	7	34	50.66		+22	49	49.7	
7		37	15.71	145.05		47	20.1	− 149.6
8		39	40.56	144.85		44	42.5	157.6
9		42	5.22	144.66		41	56.8	165.7
10		44	29.68	144.46		39	3.1	173.7
11		46	53.93	144.25		36	1.4	181.7
12	7	49	17.98	144.05	+22	32	51.8	− 189.6

世界時	赤經				赤緯			
	8月 6日							
h	h	m	s	s	°	′	″	″
12	7	49	17.98		+22	32	51.8	
13		51	41.82	143.84		29	34.3	− 197.5
14		54	5.43	143.61		26	9.0	205.3
15		56	28.82	143.39		22	35.9	213.1
16	7	58	51.99	143.17		18	55.0	220.9
17	8	1	14.93	142.94		15	6.4	228.6
				142.69				236.2
18	8	3	37.62		+22	11	10.2	
19		6	0.08	142.46		7	6.4	− 243.8
20		8	22.30	142.22	22	2	55.1	251.3
21		10	44.28	141.98	21	58	36.3	258.8
22		13	6.00	141.72		54	10.0	266.3
23		15	27.47	141.47		49	36.4	273.6
				141.21				281.0
	8月 7日							
0	8	17	48.68		+21	44	55.4	
1		20	9.63	140.95		40	7.1	− 288.3
2		22	30.32	140.69		35	11.7	295.4
3		24	50.74	140.42		30	9.1	302.6
4		27	10.88	140.14		24	59.3	309.8
5		29	30.75	139.87		19	42.5	316.8
				139.60				323.8
6	8	31	50.35		+21	14	18.7	
7		34	9.67	139.32		8	48.0	− 330.7
8		36	28.70	139.03	21	3	10.4	337.6
9		38	47.45	138.75	20	57	26.0	344.4
10		41	5.92	138.47		51	34.8	351.2
11		43	24.10	138.18		45	37.0	357.8
				137.88				364.4
12	8	45	41.98		+20	39	32.6	
13		47	59.57	137.59		33	21.6	− 371.0
14		50	16.86	137.29		27	4.1	377.5
15		52	33.86	137.00		20	40.2	383.9
16		54	50.55	136.69		14	10.0	390.2
17		57	6.95	136.40		7	33.4	396.6
				136.09				402.8
18	8	59	23.04		+20	0	50.6	
19	9	1	38.82	135.78	19	54	1.7	− 408.9
20		3	54.30	135.48		47	6.6	415.1
21		6	9.47	135.17		40	5.4	421.2
22		8	24.34	134.87		32	58.3	427.1
23		10	38.90	134.56		25	45.3	433.0
				134.25				438.9
	8月 8日							
0	9	12	53.15		+19	18	26.4	
1		15	7.09	133.94		11	1.8	− 444.6
2		17	20.71	133.62	19	3	31.5	450.3
3		19	34.02	133.31	18	55	55.5	456.0
4		21	47.01	132.99		48	14.0	461.5
5		23	59.69	132.68		40	26.9	467.1
				132.37				472.5
6	9	26	12.06		+18	32	34.4	
7		28	24.11	132.05		24	36.5	− 477.9
8		30	35.85	131.74		16	33.4	483.1
9		32	47.27	131.42		8	25.0	488.4
10		34	58.38	131.11	18	0	11.5	493.5
11		37	9.17	130.79	17	51	52.8	498.7
				130.48				503.7
12	9	39	19.65		+17	43	29.1	
13		41	29.81	130.16		35	0.4	− 508.7
14		43	39.66	129.85		26	26.9	513.5
15		45	49.20	129.54		17	48.5	518.4
16		47	58.42	129.22		9	5.4	523.1
17		50	7.33	128.91	17	0	17.5	527.9
				128.60				532.5
18	9	52	15.93		+16	51	25.0	
19		54	24.22	128.29		42	28.0	− 537.0
20		56	32.20	127.98		33	26.5	541.5
21	9	58	39.87	127.67		24	20.6	545.9
22	10	0	47.23	127.36		15	10.3	550.3
23		2	54.28	127.05	16	5	55.7	554.6
24	10	5	1.03	126.75	+15	56	37.0	− 558.7

世界時	赤經				赤緯			
	8月 9日							
h	h	m	s	s	°	′	″	″
0	10	5	1.03	126.45	+15	56	37.0	− 562.9
1		7	7.48	126.14		47	14.1	567.1
2		9	13.62	125.84		37	47.0	571.1
3		11	19.46	125.53		28	15.9	575.0
4		13	24.99	125.24		18	40.9	578.9
5		15	30.23	124.94	15	9	2.0	582.7
6	10	17	35.17		+14	59	19.3	
7		19	39.82	124.65		49	32.8	− 586.5
8		21	44.17	124.35		39	42.6	590.2
9		23	48.23	124.06		29	48.8	593.8
10		25	51.99	123.76		19	51.4	597.4
11		27	55.47	123.48	14	9	50.5	600.9
				123.20				604.3
12	10	29	58.67		+13	59	46.2	
13		32	1.58	122.91		49	38.5	− 607.7
14		34	4.21	122.63		39	27.4	611.1
15		36	6.56	122.35		29	13.1	614.3
16		38	8.62	122.06		18	55.6	617.5
17		40	10.41	121.79	13	8	35.0	620.6
				121.51				623.7
18	10	42	11.92		+12	58	11.3	
19		44	13.17	121.25		47	44.6	− 626.7
20		46	14.15	120.98		37	15.0	629.6
21		48	14.86	120.71		26	42.5	632.5
22		50	15.31	120.45		16	7.2	635.3
23		52	15.50	120.19	12	5	29.1	638.1
				119.92				640.8
	8月 10日							
0	10	54	15.42		+11	54	48.3	
1		56	15.09	119.67		44	4.8	− 643.5
2	10	58	14.50	119.41		33	18.7	645.1
3	11	0	13.66	119.16		22	30.1	648.6
4		2	12.58	118.92		11	39.1	651.0
5		4	11.25	118.67	11	0	45.7	653.4
				118.42				655.8
6	11	6	9.67		+10	49	49.9	
7		8	7.86	118.19		38	51.8	− 658.1
8		10	5.81	117.95		27	51.4	660.4
9		12	3.52	117.71		16	48.8	662.6
10		14	1.00	117.48	10	5	44.1	664.7
11		15	58.25	117.25	9	54	37.3	666.8
				117.02				668.7
12	11	17	55.27		+ 9	43	28.6	
13		19	52.07	116.80		32	17.9	− 670.7
14		21	48.65	116.58		21	5.2	672.7
15		23	45.02	116.37	9	9	50.7	674.5
16		25	41.17	116.15	8	58	34.4	676.3
17		27	37.11	115.94		47	16.4	678.0
				115.74				679.8
18	11	29	32.85		+ 8	35	56.6	
19		31	28.38	115.53		24	35.1	− 681.5
20		33	23.70	115.32		13	12.1	683.0
21		35	18.83	115.13	8	1	47.5	684.6
22		37	13.76	114.93	7	50	21.5	686.0
23		39	8.50	114.74		38	54.0	687.5
				114.56				688.9
	8月 11日							
0	11	41	3.06		+ 7	27	25.1	
1		42	57.43	114.37		15	54.9	− 690.2
2		44	51.61	114.18	7	4	23.4	691.5
3		46	45.62	114.01	6	52	50.6	692.8
4		48	39.45	113.83		41	16.6	694.0
5		50	33.11	113.65		29	41.5	695.1
				113.49				695.2
6	11	52	26.60		+ 6	18	5.3	
7		54	19.93	113.33		6	28.0	− 697.3
8		56	13.09	113.16	5	54	49.7	698.3
9		58	6.10	113.01		43	10.4	699.3
10	11	59	58.95	112.85		31	30.3	700.1
11	12	1	51.65	112.70		19	49.3	701.0
12	12	3	44.20	112.55	+ 5	8	7.6	− 701.7

世界時	赤經				赤緯			
	8月 11日							
h	h	m	s	s	°	′	″	″
12	12	3	44.20		+ 5	8	7.6	
13		5	36.61	112.41		4	56 25.1	− 702.5
14		7	28.88	112.27			44 41.8	703.3
15		9	21.01	112.13			32 57.8	704.0
16		11	13.00	111.99			21 13.2	704.6
17		13	4.86	111.86		4	9 28.0	705.2
				111.73				705.8
18	12	14	56.59		+ 3	57	42.2	
19		16	48.20	111.61			45 55.9	− 706.3
20		18	39.69	111.49			34 9.3	706.6
21		20	31.06	111.37			22 22.2	707.1
22		22	22.32	111.26		3	10 34.7	707.5
23		24	13.47	111.15		2	58 46.8	707.9
				111.05				708.1
	8月 12日							
0	12	26	4.52		+ 2	46	58.7	
1		27	55.47	110.95			35 10.3	− 708.4
2		29	46.31	110.84			23 21.8	708.5
3		31	37.06	110.75		2	11 33.1	708.7
4		33	27.71	110.65		1	59 44.2	708.9
5		35	18.27	110.56			47 55.2	709.0
				110.48				709.0
6	12	37	8.75		+ 1	36	6.2	
7		38	59.15	110.40			24 17.3	− 708.9
8		40	49.47	110.32			12 28.4	708.9
9		42	39.72	110.25		1	0 39.5	708.9
10		44	29.89	110.17		0	48 50.8	708.7
11		46	20.00	110.11			37 2.2	708.6
				110.04				708.3
12	12	48	10.04		+ 0	25	13.9	
13		50	0.03	109.99			13 25.8	− 708.1
14		51	49.96	109.93	+ 0	1	37.9	707.9
15		53	39.84	109.88	− 0	10	9.7	707.6
16		55	29.66	109.82			21 56.8	707.1
17		57	19.44	109.78			33 43.6	706.8
				109.73				706.3
18	12	59	9.17		− 0	45	29.9	
19	13	0	58.88	109.71		0	57 15.8	− 705.9
20		2	48.54	109.66		1	9 1.1	705.3
21		4	38.17	109.63			20 45.9	704.8
22		6	27.78	109.61			32 30.0	704.1
23		8	17.37	109.59			44 13.6	703.6
				109.56				702.9
	8月 13日							
0	13	10	6.93		− 1	55	56.5	
1		11	56.48	109.55		2	7 38.7	− 702.2
2		13	46.01	109.53			19 20.2	701.5
3		15	35.53	109.52			31 0.9	700.7
4		17	25.05	109.52			42 40.8	699.9
5		19	14.57	109.52		2	54 19.8	699.0
				109.52				698.2
6	13	21	4.09		− 3	5	58.0	
7		22	53.61	109.52			17 35.3	− 697.3
8		24	43.13	109.52			29 11.6	696.3
9		26	32.67	109.54			40 46.8	695.2
10		28	22.22	109.55		3	52 21.0	694.2
11		30	11.79	109.57		4	3 54.2	693.2
				109.60				692.1
12	13	32	1.39		− 4	15	26.3	
13		33	51.01	109.62			26 57.2	− 690.9
14		35	40.67	109.66			38 26.9	689.7
15		37	30.36	109.69		4	49 55.4	688.5
16		39	20.08	109.72		5	1 22.7	687.3
17		41	9.84	109.75			12 48.8	686.1
				109.80				684.7
18	13	42	59.64		− 5	24	13.5	
19		44	49.49	109.85			35 36.8	− 683.3
20		46	39.40	109.91			46 58.7	681.9
21		48	29.36	109.95		5	58 19.2	680.5
22		50	19.38	110.02		6	9 38.2	679.0
23		52	9.46	110.08			20 55.7	677.5
24	13	53	59.60	110.14	− 6	32	11.7	− 676.0

世界時	赤経			赤緯			
8月14日							
h	h	m	s	s	°	′	″	″
0	13	53	59.60	110.21	− 6	32	11.7	−674.4
1		55	49.81	110.29		43	26.1	672.8
2		57	40.10	110.36		54	38.9	671.1
3	13	59	30.46	110.44	7	5	50.0	669.4
4	14	1	20.90	110.52		16	59.4	667.8
5		3	11.42	110.60		28	7.2	666.0
6	14	5	2.02	110.69	− 7	39	13.2	−664.2
7		6	52.71	110.79	7	50	17.4	662.3
8		8	43.50	110.89	8	1	19.7	660.5
9		10	34.39	110.99		12	20.2	658.6
10		12	25.38	111.09		23	18.8	656.6
11		14	16.47	111.19		34	15.4	654.6
12	14	16	7.66	111.30	− 8	45	10.0	−652.6
13		17	58.96	111.42	8	56	2.6	650.6
14		19	50.38	111.54	9	6	53.2	648.5
15		21	41.92	111.66		17	41.7	646.4
16		23	33.58	111.78		28	28.1	644.2
17		25	25.36	111.90		39	12.3	642.0
18	14	27	17.26	112.03	− 9	49	54.3	−639.7
19		29	9.29	112.17	10	0	34.0	637.5
20		31	1.46	112.31		11	11.5	635.2
21		32	53.77	112.44		21	46.7	632.7
22		34	46.21	112.59		32	19.4	630.4
23		36	38.80	112.73		42	49.8	628.0
8月15日								
0	14	38	31.53	112.88	−10	53	17.8	−625.5
1		40	24.41	113.04	11	3	43.3	623.0
2		42	17.45	113.19		14	6.3	620.4
3		44	10.64	113.35		24	26.7	617.8
4		46	3.99	113.52		34	44.5	615.2
5		47	57.51	113.67		44	59.7	612.6
6	14	49	51.18	113.85	−11	55	12.3	−609.8
7		51	45.03	114.02	12	5	22.1	607.0
8		53	39.05	114.19		15	29.1	604.3
9		55	33.24	114.37		25	33.4	601.5
10		57	27.61	114.56		35	34.9	598.6
11	14	59	22.17	114.73		45	33.5	595.7
12	15	1	16.90	114.92	−12	55	29.2	−592.7
13		3	11.82	115.11	13	5	21.9	589.7
14		5	6.93	115.31		15	11.6	586.7
15		7	2.24	115.50		24	58.3	583.7
16		8	57.74	115.70		34	42.0	580.5
17		10	53.44	115.90		44	22.5	577.3
18	15	12	49.34	116.11	−13	53	59.8	−574.1
19		14	45.45	116.31	14	3	33.9	570.9
20		16	41.76	116.52		13	4.8	567.6
21		18	38.28	116.74		22	32.4	564.3
22		20	35.02	116.95		31	56.7	560.9
23		22	31.97	117.17		41	17.6	557.4
8月16日								
0	15	24	29.14	117.39	−14	50	35.0	−554.0
1		26	26.53	117.61	14	59	49.0	550.5
2		28	24.14	117.84	15	8	59.5	547.0
3		30	21.98	118.07		18	6.5	543.4
4		32	20.05	118.30		27	9.9	539.7
5		34	18.35	118.53		36	9.6	536.0
6	15	36	16.88	118.76	−15	45	5.6	−532.3
7		38	15.64	119.00	15	53	57.9	528.5
8		40	14.64	119.25	16	2	46.4	524.6
9		42	13.89	119.49		11	31.0	520.8
10		44	13.38	119.74		20	11.8	516.9
11		46	13.12	119.98		28	48.7	−513.0
12	15	48	13.10		−16	37	21.7	

世界時	赤経			赤緯			
8月16日							
h	h	m	s	s	°	′	″	″
12	15	48	13.10	120.22	−16	37	21.7	−508.9
13		50	13.32	120.48		45	50.6	504.9
14		52	13.80	120.73	16	54	15.5	500.8
15		54	14.53	120.99	17	2	36.3	496.6
16		56	15.52	121.25		10	52.9	492.4
17	15	58	16.77	121.50		19	5.3	488.2
18	16	0	18.27	121.77	−17	27	13.5	−483.9
19		2	20.04	122.03		35	17.4	479.5
20		4	22.07	122.29		43	16.9	475.1
21		6	24.36	122.56		51	12.0	470.7
22		8	26.92	122.83	17	59	2.7	466.2
23		10	29.75	123.10	18	6	48.9	461.6
8月17日								
0	16	12	32.85	123.37	−18	14	30.5	−457.1
1		14	36.22	123.65		22	7.6	452.4
2		16	39.87	123.92		29	40.0	447.7
3		18	43.79	124.19		37	7.7	443.0
4		20	47.98	124.47		44	30.7	438.2
5		22	52.45	124.75		51	48.9	433.3
6	16	24	57.20	125.03	−18	59	2.2	−428.4
7		27	2.23	125.30	19	6	10.6	423.5
8		29	7.53	125.59		13	14.1	418.5
9		31	13.12	125.87		20	12.6	413.5
10		33	18.99	126.16		27	6.1	408.4
11		35	25.15	126.44		33	54.5	403.2
12	16	37	31.59	126.72	−19	40	37.7	−398.0
13		39	38.31	127.01		47	15.7	392.8
14		41	45.32	127.30	19	53	48.5	387.5
15		43	52.62	127.58	20	0	16.0	382.1
16		46	0.20	127.87		6	38.1	376.7
17		48	8.07	128.16		12	54.8	371.2
18	16	50	16.23	128.45	−20	19	6.0	−365.7
19		52	24.68	128.73		25	11.7	360.1
20		54	33.41	129.03		31	11.8	354.5
21		56	42.44	129.31		37	6.3	348.8
22	16	58	51.75	129.60		42	55.1	343.1
23	17	1	1.35	129.88		48	38.2	337.4
8月18日								
0	17	3	11.23	130.17	−20	54	15.6	−331.5
1		5	21.40	130.47	20	59	47.1	325.7
2		7	31.87	130.76	21	5	12.8	319.7
3		9	42.63	131.04		10	32.5	313.7
4		11	53.67	131.33		15	46.2	307.6
5		14	5.00	131.61		20	53.8	301.6
6	17	16	16.61	131.89	−21	25	55.4	−295.5
7		18	28.50	132.18		30	50.9	289.2
8		20	40.68	132.47		35	40.1	283.0
9		22	53.15	132.75		40	23.1	276.7
10		25	5.90	133.03		44	59.8	270.4
11		27	18.93	133.31		49	30.2	264.0
12	17	29	32.24	133.59	−21	53	54.2	−257.5
13		31	45.83	133.87	21	58	11.7	251.0
14		33	59.70	134.15	22	2	22.7	244.5
15		36	13.85	134.42		6	27.2	237.8
16		38	28.27	134.69		10	25.0	231.2
17		40	42.96	134.97		14	16.2	224.5
18	17	42	57.93	135.24	−22	18	0.7	−217.8
19		45	13.17	135.50		21	38.5	211.0
20		47	28.67	135.77		25	9.5	204.2
21		49	44.44	136.03		28	33.7	197.2
22		52	0.47	136.30		31	50.9	190.2
23		54	16.77	136.55		35	1.1	−183.2
24	17	56	33.32		−22	38	4.3	

世界時	赤経			赤緯			
8月19日							
h	h	m	s	s	°	′	″	″
0	17	56	33.32	136.81	−22	38	4.3	−176.2
1	17	58	50.13	137.07		41	0.5	169.2
2	18	1	7.20	137.32		43	49.7	162.0
3		3	24.52	137.58		46	31.7	154.8
4		5	42.10	137.82		49	6.5	147.6
5		7	59.92	138.06		51	34.1	140.3
6	18	10	17.98	138.31	−22	53	54.4	−133.0
7		12	36.29	138.54		56	7.4	125.6
8		14	54.83	138.78	22	58	13.0	118.2
9		17	13.61	139.01	23	0	11.2	110.8
10		19	32.62	139.24		2	2.0	103.3
11		21	51.86	139.46		3	45.3	95.7
12	18	24	11.32	139.69	−23	5	21.0	− 88.2
13		26	31.01	139.91		6	49.2	80.6
14		28	50.92	140.12		8	9.8	72.9
15		31	11.04	140.34		9	22.7	65.3
16		33	31.38	140.55		10	28.0	57.6
17		35	51.93	140.75		11	25.6	49.7
18	18	38	12.68	140.95	−23	12	15.3	− 42.0
19		40	33.63	141.15		12	57.3	34.2
20		42	54.78	141.34		13	31.5	26.3
21		45	16.12	141.54		13	57.8	18.4
22		47	37.66	141.72		14	16.2	10.5
23		49	59.38	141.90		14	26.7	− 2.5
8月20日								
0	18	52	21.28	142.08	−23	14	29.2	+ 5.5
1		54	43.36	142.25		14	23.7	13.5
2		57	5.61	142.42		14	10.2	21.6
3	18	59	28.03	142.58		13	48.6	29.6
4	19	1	50.61	142.74		13	19.0	37.7
5		4	13.35	142.89		12	41.3	45.8
6	19	6	36.24	143.05	−23	11	55.5	+ 54.0
7		8	59.29	143.19		11	1.5	62.2
8		11	22.48	143.33		9	59.3	70.4
9		13	45.81	143.47		8	48.9	78.6
10		16	9.28	143.60		7	30.3	86.8
11		18	32.88	143.73		6	3.5	95.0
12	19	20	56.61	143.85	−23	4	28.5	+ 103.3
13		23	20.46	143.97		2	45.2	111.6
14		25	44.43	144.08	23	0	53.6	119.9
15		28	8.51	144.19	22	58	53.7	128.3
16		30	32.70	144.29		56	45.4	136.6
17		32	56.99	144.39		54	28.8	145.0
18	19	35	21.38	144.49	−22	52	3.8	+ 153.3
19		37	45.87	144.57		49	30.5	161.7
20		40	10.44	144.66		46	48.8	170.0
21		42	35.10	144.73		43	58.8	178.4
22		44	59.83	144.81		41	0.4	186.8
23		47	24.64	144.87		37	53.6	195.2
8月21日								
0	19	49	49.51	144.94	−22	34	38.4	+ 203.5
1		52	14.45	145.00		31	14.9	211.9
2		54	39.45	145.06		27	43.0	220.3
3		57	4.51	145.10		24	2.7	228.7
4	19	59	29.61	145.15		20	14.0	237.1
5	20	1	54.76	145.18		16	16.9	245.5
6	20	4	19.94	145.22	−22	12	11.4	+ 253.8
7		6	45.16	145.25		7	57.6	262.2
8		9	10.41	145.28	22	3	35.4	270.6
9		11	35.69	145.29	21	59	4.8	278.9
10		14	0.98	145.31		54	25.9	287.2
11		16	26.29	145.32		49	38.7	+ 295.5
12	20	18	51.61		−21	44	43.2	

世界時	赤経			赤緯			
8月21日							
h	h	m	s	s	°	′	″	″
12	20	18	51.61	145.33	−21	44	43.2	+ 393.9
13		21	16.94	145.32		39	39.3	312.2
14		23	42.26	145.32		34	27.1	320.5
15		26	7.58	145.32		29	6.6	328.7
16		28	32.90	145.32		23	37.9	336.9
17		30	58.21	145.31		18	1.0	345.1
				145.29				
18	20	33	23.50	145.26	−21	12	15.9	+ 353.3
19		35	48.76	145.24		6	22.6	361.4
20		38	14.00	145.22	21	0	21.2	369.6
21		40	39.22	145.17	20	54	11.6	377.7
22		43	4.39	145.14		47	53.9	385.8
23		45	29.53	145.09		41	28.1	393.9
8月22日								
0	20	47	54.62		−20	34	54.2	
1		50	19.67	145.05		28	12.3	+ 401.9
2		52	44.66	144.99		21	22.4	409.9
3		55	9.60	144.94		14	24.6	417.8
4		57	34.49	144.89		7	18.8	425.8
5	20	59	59.32	144.83	20	0	5.1	433.7
				144.76				441.5
6	21	2	24.08		−19	52	43.6	
7		4	48.77	144.69		45	14.3	+ 449.3
8		7	13.38	144.61		37	37.3	457.0
9		9	37.92	144.54		29	52.5	464.8
10		12	2.38	144.46		22	0.0	472.5
11		14	26.76	144.38		13	59.8	480.2
				144.29				487.7
12	21	16	51.05	144.21	−19	5	52.1	
13		19	15.26	144.11		18	57	36.9	+ 495.2
14		21	39.37	144.02		49	14.1	502.8
15		24	3.39	143.91		40	43.8	510.3
16		26	27.30	143.82		32	6.2	517.6
17		28	51.12	143.71		23	21.2	525.0
								532.2
18	21	31	14.83	143.61	−18	14	29.0	
19		33	38.44	143.50		18	5	29.5	+ 539.5
20		36	1.94	143.39	17	56	22.8	546.7
21		38	25.33	143.28		47	9.0	553.8
22		40	48.61	143.16		37	48.2	560.8
23		43	11.77	143.04		28	20.3	567.9
								574.8
8月23日								
0	21	45	34.81		−17	18	45.5	
1		47	57.74	142.93		17	9	3.8	+ 581.7
2		50	20.54	142.80		16	59	15.3	588.5
3		52	43.22	142.68		49	20.0	595.3
4		55	5.78	142.56		39	18.0	602.0
5		57	28.21	142.43		29	9.4	608.6
				142.30				615.1
6	21	59	50.51		−16	18	54.3	
7	22	2	12.68	142.17		16	8	32.6	+ 621.7
8		4	34.72	142.04		15	58	4.5	628.1
9		6	56.63	141.91			47	30.0	634.5
10		9	18.41	141.78			36	49.3	640.7
11		11	40.05	141.64			26	2.3	647.0
				141.51				653.1
12	22	14	1.56	141.38	−15	15	9.2	
13		16	22.94	141.24		15	4	10.0	+ 659.2
14		18	44.18	141.10		14	53	4.9	665.1
15		21	5.28	140.96			41	53.8	671.1
16		23	26.24	140.83			30	36.8	677.0
17		25	47.07	140.68			19	14.1	682.7
								688.4
18	22	28	7.75	140.55	−14	7	45.7	
19		30	28.30	140.40		13	56	11.7	+ 694.0
20		32	48.70	140.27			44	32.1	699.6
21		35	8.97	140.13			32	47.1	705.0
22		37	29.10	140.00			20	56.7	710.4
23		39	49.10	139.85		13	9	1.0	715.7
24	22	42	8.95		−12	57	0.2	+ 720.8

世界時	赤經		赤緯	

8 月 24 日

h	h m s	s	° ′ ″	″
0	22 42 8.95		−12 57 0.2	
1	44 28.67	139.72	44 54.2	+726.0
2	46 48.25	139.58	32 43.2	731.0
3	49 7.69	139.44	20 27.2	736.0
4	51 26.99	139.30	12 8 6.3	740.9
5	53 46.16	139.17	11 55 40.6	745.7
		139.03		750.4
6	22 56 5.19		−11 43 10.2	
7	22 58 24.09	138.90	30 35.2	+755.0
8	23 0 42.85	138.76	17 55.6	759.6
9	3 1.49	138.64	11 5 11.6	764.0
10	5 19.99	138.50	10 52 23.2	768.4
11	7 38.36	138.37	39 30.5	772.7
		138.23		776.8
12	23 9 56.59		−10 26 33.7	
13	12 14.70	138.11	13 32.8	+780.9
14	14 32.68	137.98	10 0 27.9	784.9
15	16 50.54	137.86	9 47 19.0	788.9
16	19 8.27	137.73	34 6.3	792.7
17	21 25.88	137.61	20 49.9	796.4
		137.49		800.0
18	23 23 43.37		− 9 7 29.9	
19	26 0.74	137.37	8 54 6.3	+803.6
20	28 17.99	137.25	40 39.2	807.1
21	30 35.13	137.14	27 8.7	810.5
22	32 52.15	137.02	8 13 35.0	813.7
23	35 9.06	136.91	7 59 58.2	816.8
		136.80		819.9

8 月 25 日

h	h m s	s	° ′ ″	″
0	23 37 25.86		− 7 46 18.3	
1	39 42.55	136.69	32 35.4	+822.9
2	41 59.14	136.59	18 49.5	825.9
3	44 15.62	136.48	7 5 0.8	828.7
4	46 32.00	136.38	6 51 9.4	831.4
5	48 48.28	136.28	37 15.3	834.1
		136.18		836.6
6	23 51 4.46		− 6 23 18.7	
7	53 20.55	136.09	6 9 19.7	+839.0
8	55 36.55	136.00	5 55 18.4	841.3
9	23 57 52.46	135.91	41 14.8	843.6
10	0 0 8.28	135.82	27 9.0	845.8
11	2 24.02	135.74	5 13 1.2	847.8
		135.65		849.8
12	0 4 39.67		− 4 58 51.4	
13	6 55.24	135.57	44 39.7	+851.7
14	9 10.74	135.50	30 26.3	853.4
15	11 26.16	135.42	16 11.2	855.1
16	13 41.51	135.35	4 1 54.6	856.6
17	15 56.79	135.28	3 47 36.5	858.1
		135.21		859.6
18	0 18 12.00		− 3 33 16.9	
19	20 27.16	135.16	18 56.0	+860.9
20	22 42.25	135.09	3 4 33.9	862.1
21	24 57.28	135.03	2 50 10.7	863.2
22	27 12.26	134.98	35 46.5	864.2
23	29 27.19	134.93	21 21.4	865.1
		134.89		865.9

8 月 26 日

h	h m s	s	° ′ ″	″
0	0 31 42.08		− 2 6 55.5	
1	33 56.92	134.84	1 52 28.8	+866.7
2	36 11.71	134.79	38 1.5	867.3
3	38 26.46	134.75	23 33.7	867.8
4	40 41.18	134.72	1 9 5.4	868.3
5	42 55.87	134.69	0 54 36.7	868.7
		134.65		868.9
6	0 45 10.52		− 0 40 7.8	
7	47 25.15	134.63	25 38.8	+869.0
8	49 39.75	134.60	− 0 11 9.7	869.1
9	51 54.33	134.58	+ 0 3 19.4	869.1
10	54 8.90	134.57	17 48.4	869.0
11	56 23.46	134.56	32 17.2	868.8
12	0 58 38.00	134.54	+ 0 46 45.7	+868.5

世界時	赤經		赤緯	

8 月 26 日

h	h m s	s	° ′ ″	″
12	0 58 38.00		+ 0 46 45.7	
13	1 0 52.53	134.53	1 1 13.7	+868.0
14	3 7.06	134.53	15 41.2	867.5
15	5 21.59	134.53	30 8.1	866.9
16	7 36.12	134.53	44 34.4	866.3
17	9 50.66	134.54	1 58 59.9	865.5
		134.54		864.7
18	1 12 5.20		+ 2 13 24.6	
19	14 19.75	134.55	27 48.3	+863.7
20	16 34.32	134.57	42 11.0	862.7
21	18 48.91	134.59	2 56 32.5	861.5
22	21 3.52	134.61	3 10 52.7	860.2
23	23 18.15	134.63	25 11.6	858.9
		134.65		857.6

8 月 27 日

h	h m s	s	° ′ ″	″
0	1 25 32.80		+ 3 39 29.2	
1	27 47.49	134.69	3 53 45.3	+856.1
2	30 2.21	134.72	4 7 59.8	854.5
3	32 16.97	134.76	22 12.5	852.7
4	34 31.76	134.79	36 23.4	850.9
5	36 46.60	134.84	4 50 32.5	849.1
		134.88		847.2
6	1 39 1.48		+ 5 4 39.7	
7	41 16.41	134.93	18 44.8	+845.1
8	43 31.40	134.99	32 47.8	843.0
9	45 46.44	135.04	5 46 48.5	840.7
10	48 1.54	135.10	6 0 46.9	838.4
11	50 16.71	135.17	14 42.9	836.0
		135.22		833.6
12	1 52 31.93		+ 6 28 36.5	
13	54 47.22	135.29	42 27.5	+831.0
14	57 2.58	135.36	6 56 15.8	828.3
15	1 59 18.01	135.43	7 10 1.4	825.6
16	2 1 33.52	135.51	23 44.1	822.7
17	3 49.11	135.59	37 23.9	819.8
		135.67		816.9
18	2 6 4.78		+ 7 51 0.8	
19	8 20.53	135.75	8 4 34.6	+813.8
20	10 36.37	135.84	18 5.1	810.5
21	12 52.30	135.93	31 32.4	807.3
22	15 8.32	136.02	44 56.4	804.0
23	17 24.43	136.11	8 58 16.9	800.5
		136.21		796.9

8 月 28 日

h	h m s	s	° ′ ″	″
0	2 19 40.64		+ 9 11 33.8	
1	21 56.95	136.31	24 47.1	+793.3
2	24 13.36	136.41	37 56.7	789.6
3	26 29.88	136.52	9 51 2.7	786.0
4	28 46.50	136.62	10 4 4.9	782.2
5	31 3.23	136.73	17 3.2	778.3
		136.84		774.3
6	2 33 20.07		+10 29 57.5	
7	35 37.03	136.96	42 47.6	+770.1
8	37 54.11	137.08	10 55 33.5	765.9
9	40 11.30	137.19	11 8 15.2	761.7
10	42 28.61	137.31	20 52.5	757.3
11	44 46.04	137.43	33 25.5	753.0
		137.55		748.5
12	2 47 3.59		+11 45 54.0	
13	49 21.27	137.68	11 58 18.0	+744.0
14	51 39.07	137.80	12 10 37.3	739.3
15	53 57.00	137.93	22 51.9	734.6
16	56 15.07	138.07	35 1.7	729.8
17	2 58 33.27	138.20	47 6.6	724.9
		138.33		720.0
18	3 0 51.60		+12 59 6.6	
19	3 10.07	138.47	13 11 1.6	+715.0
20	5 28.67	138.60	22 51.4	709.8
21	7 47.41	138.74	34 36.1	704.7
22	10 6.29	138.88	46 15.6	699.5
23	12 25.31	139.02	13 57 49.8	694.2
24	3 14 44.47	139.16	+14 9 18.5	+688.7

世界時	赤經		赤緯	

8 月 29 日

h	h m s	s	° ′ ″	″
0	3 14 44.47		+14 9 18.5	
1	17 3.77	139.30	20 41.8	+683.3
2	19 23.22	139.45	31 59.6	677.8
3	21 42.81	139.59	43 11.8	672.2
4	24 2.55	139.74	14 54 18.4	666.6
5	26 22.43	139.88	15 5 19.2	660.8
		140.02		655.0
6	3 28 42.45		+15 16 14.2	
7	31 2.63	140.18	27 3.3	+649.1
8	33 22.95	140.32	37 46.4	643.1
9	35 43.42	140.47	48 23.5	637.1
10	38 4.04	140.62	15 58 54.6	631.1
11	40 24.81	140.77	16 9 19.5	624.9
		140.91		618.7
12	3 42 45.72		+16 19 38.2	
13	45 6.78	141.06	29 50.6	+612.4
14	47 27.99	141.21	39 56.7	606.1
15	49 49.35	141.36	49 56.4	599.7
16	52 10.85	141.50	16 59 49.6	593.2
17	54 32.51	141.66	17 9 36.3	586.7
		141.80		580.1
18	3 56 54.31		+17 19 16.4	
19	3 59 16.25	141.94	28 49.9	+573.5
20	4 1 38.34	142.09	38 16.7	566.8
21	4 0.58	142.24	47 36.7	560.0
22	6 22.96	142.38	17 56 49.8	553.1
23	8 45.48	142.52	18 5 56.0	546.2
		142.67		539.3

8 月 30 日

h	h m s	s	° ′ ″	″
0	4 11 8.15		+18 14 55.3	
1	13 30.96	142.81	23 47.6	+532.3
2	15 53.90	142.94	32 32.9	525.3
3	18 16.99	143.09	41 11.1	518.2
4	20 40.22	143.23	49 42.1	511.0
5	23 3.58	143.36	18 58 5.9	503.8
		143.50		496.5
6	4 25 27.08		+19 6 22.4	
7	27 50.70	143.62	14 31.6	+489.2
8	30 14.46	143.76	22 33.5	481.9
9	32 38.35	143.89	30 27.9	474.4
10	35 2.36	144.01	38 14.9	467.0
11	37 26.50	144.14	45 54.4	459.5
		144.26		451.9
12	4 39 50.76		+19 53 26.3	
13	42 15.14	144.38	20 0 50.6	+444.3
14	44 39.64	144.50	8 7.3	436.7
15	47 4.25	144.61	15 16.3	429.0
16	49 28.98	144.73	22 17.5	421.2
17	51 53.82	144.84	29 11.0	413.5
		144.95		405.6
18	4 54 18.77		+20 35 56.6	
19	56 43.82	145.05	42 34.4	+397.8
20	4 59 8.98	145.16	49 4.3	389.9
21	5 1 34.23	145.25	20 55 26.3	382.0
22	3 59.57	145.34	21 1 40.3	374.0
23	6 25.01	145.44	7 46.3	366.0
		145.53		358.0

8 月 31 日

h	h m s	s	° ′ ″	″
0	5 8 50.54		+21 13 44.3	
1	11 16.16	145.62	19 34.2	+349.9
2	13 41.86	145.70	25 16.0	341.8
3	16 7.64	145.78	30 49.7	333.7
4	18 33.49	145.85	36 15.2	325.5
5	20 59.42	145.93	41 32.5	317.3
		145.99		309.1
6	5 23 25.41		+21 46 41.6	
7	25 51.47	146.06	51 42.5	+300.9
8	28 17.58	146.11	21 56 35.1	292.6
9	30 43.75	146.17	22 1 19.4	284.3
10	33 9.98	146.23	5 55.4	276.0
11	35 36.26	146.28	10 23.1	267.7
12	5 38 2.58	146.32	+22 14 42.4	+259.3

世界時	赤經		赤緯	

8 月 31 日

h	h m s	s	° ′ ″	″
12	5 38 2.58		+22 14 42.4	
13	40 28.94	146.36	18 53.2	+250.8
14	42 55.34	146.40	22 55.6	242.4
15	45 21.77	146.43	26 49.7	234.1
16	47 48.22	146.45	30 35.3	225.6
17	50 14.70	146.48	34 12.5	217.2
		146.49		208.8
18	5 52 41.19		+22 37 41.3	
19	55 7.69	146.50	41 1.5	+200.2
20	5 57 34.21	146.52	44 13.3	191.8
21	6 0 0.74	146.53	47 16.6	183.3
22	2 27.26	146.52	50 11.4	174.8
23	4 53.78	146.52	52 57.7	166.3
		146.50		157.8

9 月 1 日

h	h m s	s	° ′ ″	″
0	6 7 20.28		+22 55 35.5	
1	9 46.77	146.49	22 58 4.7	+149.2
2	12 13.24	146.47	23 0 25.4	140.7
3	14 39.69	146.45	2 37.5	132.1
4	17 6.11	146.42	4 41.1	123.6
5	19 32.50	146.39	6 36.3	115.2
		146.34		106.6
6	6 21 58.84		+23 8 22.9	
7	24 25.14	146.30	10 1.0	+ 98.1
8	26 51.39	146.25	11 30.6	89.6
9	29 17.59	146.20	12 51.6	81.0
10	31 43.73	146.14	14 4.1	72.5
11	34 9.81	146.08	15 8.2	64.1
		146.00		55.5
12	6 36 35.81		+23 16 3.7	
13	39 1.74	145.93	16 50.7	+ 47.0
14	41 27.59	145.85	17 29.3	38.6
15	43 53.36	145.77	17 59.4	30.1
16	46 19.04	145.68	18 21.1	21.7
17	48 44.63	145.59	18 34.4	13.3
		145.49		+ 4.8
18	6 51 10.12		+23 18 39.2	
19	53 35.50	145.38	18 35.6	− 3.6
20	56 0.78	145.28	18 23.6	12.0
21	6 58 25.93	145.17	18 3.3	20.3
22	7 0 51.00	145.05	17 34.6	28.7
23	3 15.92	144.92	16 57.6	37.0
		144.79		45.3

9 月 2 日

h	h m s	s	° ′ ″	″
0	7 5 40.71		+23 16 12.3	
1	8 5.37	144.66	15 18.8	− 53.5
2	10 29.89	144.52	14 17.0	61.8
3	12 54.27	144.38	13 7.0	70.0
4	15 18.50	144.23	11 48.8	78.2
5	17 42.59	144.09	10 22.5	86.3
		143.93		94.5
6	7 20 6.52		+23 8 48.0	
7	22 30.29	143.77	7 5.4	−102.6
8	24 53.90	143.61	5 14.7	110.7
9	27 17.34	143.44	3 16.0	118.7
10	29 40.60	143.26	23 1 9.2	126.8
11	32 3.69	143.09	22 58 54.5	134.7
		142.91		142.6
12	7 34 26.60		+22 56 31.9	
13	36 49.33	142.73	54 1.3	−150.6
14	39 11.86	142.53	51 22.9	158.4
15	41 34.19	142.33	48 36.7	166.2
16	43 56.33	142.14	45 42.7	174.0
17	46 18.27	141.94	42 41.0	181.7
		141.73		189.5
18	7 48 40.00		+22 39 31.5	
19	51 1.52	141.52	36 14.3	−197.2
20	53 22.83	141.31	32 49.6	204.7
21	55 43.93	141.10	29 17.3	212.3
22	7 58 4.81	140.88	25 37.4	219.9
23	8 0 25.46	140.65	21 50.0	227.4
24	8 2 45.89	140.43	+22 17 55.2	−234.8

世界時	赤經				赤緯			
	9 月 3 日							
h	h	m	s	s	°	′	″	″
0	8	2	45.89	140.20	+22	17	55.2	−242.1
1		5	6.09	139.97		13	53.1	249.5
2		7	26.06	139.73		9	43.6	256.8
3		9	45.79	139.49		5	26.8	264.1
4		12	5.28	139.25	22	1	2.7	271.2
5		14	24.53	139.00	21	56	31.5	278.4
6	8	16	43.53	138.76	+21	51	53.1	−285.5
7		19	2.29	138.51		47	7.6	292.6
8		21	20.80	138.25		42	15.0	299.5
9		23	39.05	137.99		37	15.5	306.5
10		25	57.04	137.74		32	9.0	313.4
11		28	14.78	137.48		26	55.6	320.2
12	8	30	32.26	137.22	+21	21	35.4	−327.0
13		32	49.48	136.95		16	8.4	333.7
14		35	6.43	136.69		10	34.7	340.4
15		37	23.12	136.42	21	4	54.3	347.0
16		39	39.54	136.16	20	59	7.3	353.5
17		41	55.70	135.87		53	13.8	360.1
18	8	44	11.57	135.61	+20	47	13.7	−366.5
19		46	27.18	135.33		41	7.2	372.9
20		48	42.51	135.06		34	54.3	379.2
21		50	57.57	134.77		28	35.1	385.5
22		53	12.34	134.49		22	9.6	391.7
23		55	26.83	134.21		15	37.9	397.9
	9 月 4 日							
0	8	57	41.04	133.94	+20	9	0.0	−404.0
1	8	59	54.98	133.65	20	2	16.0	409.9
2	9	2	8.63	133.36	19	55	26.1	416.0
3		4	21.99	133.08		48	30.1	421.9
4		6	35.07	132.80		41	28.2	427.7
5		8	47.87	132.51		34	20.5	433.5
6	9	11	0.38	132.22	+19	27	7.0	−439.3
7		13	12.60	131.94		19	47.7	444.9
8		15	24.54	131.65		12	22.8	450.5
9		17	36.19	131.36	19	4	52.3	456.0
10		19	47.55	131.07	18	57	16.3	461.5
11		21	58.62	130.78		49	34.8	467.0
12	9	24	9.40	130.49	+18	41	47.8	−472.3
13		26	19.89	130.21		33	55.5	477.7
14		28	30.10	129.92		25	57.8	482.9
15		30	40.02	129.63		17	54.9	488.0
16		32	49.65	129.33		9	46.9	493.2
17		34	58.98	129.05	18	1	33.7	498.2
18	9	37	8.03	128.76	+17	53	15.5	−503.2
19		39	16.79	128.48		44	52.3	508.1
20		41	25.27	128.19		36	24.2	513.0
21		43	33.46	127.90		27	51.2	517.8
22		45	41.36	127.62		19	13.4	522.5
23		47	48.98	127.33		10	30.9	527.2
	9 月 5 日							
0	9	49	56.31	127.05	+17	1	43.7	−531.8
1		52	3.36	126.76	16	52	51.9	536.4
2		54	10.12	126.48		43	55.5	540.9
3		56	16.60	126.20		34	54.6	545.2
4	9	58	22.80	125.92		25	49.4	549.6
5	10	0	28.72	125.64		16	39.8	554.0
6	10	2	34.36	125.36	+16	7	25.8	−558.2
7		4	39.72	125.08	15	58	7.6	562.4
8		6	44.80	124.81		48	45.2	566.5
9		8	49.61	124.53		39	18.7	570.5
10		10	54.14	124.26		29	48.2	574.5
11		12	58.40	123.98		20	13.7	578.5
12	10	15	2.38	123.72	+15	10	35.2	−582.3
	9 月 5 日							
13		17	6.10	123.44		0	52.9	586.1
14		19	9.54	123.18	14	51	6.8	589.9
15		21	12.72	122.91		41	16.9	593.6
16		23	15.63	122.65		31	23.3	597.3
17		25	18.28	122.38		21	26.0	600.8
18	10	27	20.66	122.13	+14	11	25.2	−604.3
19		29	22.79	121.87		1	20.9	607.7
20		31	24.66	121.61	13	51	13.2	611.1
21		33	26.27	121.35		41	2.1	614.5
22		35	27.62	121.10		30	47.6	617.8
23		37	28.72	120.85		20	29.8	621.0
	9 月 6 日							
0	10	39	29.57	120.61	+13	10	8.8	−624.1
1		41	30.18	120.36	12	59	44.7	627.1
2		43	30.54	120.11		49	17.6	630.2
3		45	30.65	119.87		38	47.4	633.2
4		47	30.52	119.63		28	14.2	636.1
5		49	30.15	119.39		17	38.1	639.0
6	10	51	29.54	119.16	+12	6	59.1	−641.8
7		53	28.70	118.92	11	56	17.3	644.5
8		55	27.62	118.69		45	32.8	647.2
9		57	26.31	118.47		34	45.6	649.8
10	10	59	24.78	118.24		23	55.8	652.4
11	11	1	23.02	118.01		13	3.4	654.9
12	11	3	21.03	117.80	+11	2	8.5	−657.4
13		5	18.83	117.58	10	51	11.1	659.7
14		7	16.41	117.36		40	11.4	662.1
15		9	13.77	117.14		29	9.3	664.5
16		11	10.91	116.93		18	4.8	666.7
17		13	7.84	116.73	10	6	58.1	668.8
18	11	15	4.57	116.53	+ 9	55	49.3	−671.0
19		17	1.10	116.32		44	38.3	673.0
20		18	57.42	116.12		33	25.3	675.1
21		20	53.54	115.92		22	10.2	677.1
22		22	49.46	115.73	9	10	53.1	678.9
23		24	45.19	115.53	8	59	34.2	680.7
	9 月 7 日							
0	11	26	40.72	115.35	+ 8	48	13.5	−682.6
1		28	36.07	115.16		36	50.9	684.4
2		30	31.23	114.98		25	26.5	686.1
3		32	26.21	114.80		14	0.4	687.6
4		34	21.01	114.62	8	2	32.8	689.3
5		36	15.63	114.44	7	51	3.5	690.9
6	11	38	10.07	114.27	+ 7	39	32.6	−692.4
7		40	4.34	114.11		28	0.2	693.8
8		41	58.45	113.94		16	26.4	695.2
9		43	52.39	113.77	7	4	51.2	696.5
10		45	46.16	113.62	6	53	14.7	697.9
11		47	39.78	113.46		41	36.8	699.1
12	11	49	33.24	113.31	+ 6	29	57.7	−700.3
13		51	26.55	113.15		18	17.4	701.4
14		53	19.70	113.01	6	6	36.0	702.5
15		55	12.71	112.86	5	54	53.5	703.5
16		57	5.57	112.71		43	10.0	704.6
17	11	58	58.28	112.58		31	25.4	705.6
18	12	0	50.86	112.45	+ 5	19	39.8	−706.5
19		2	43.31	112.31	5	7	53.3	707.3
20		4	35.62	112.18	4	56	6.0	708.0
21		6	27.80	112.06		44	18.0	708.8
22		8	19.86	111.94		32	29.2	709.6
23		10	11.80	111.81		20	39.6	710.2
24	12	12	3.61		+ 4	8	49.4	−710.9

世界時	赤經				赤緯			
	9 月 8 日							
h	h	m	s	s	°	′	″	″
0	12	12	3.61	111.69	+ 4	8	49.4	−710.9
1		13	55.30	111.58	3	56	58.5	711.4
2		15	46.88	111.47		45	7.1	712.0
3		17	38.35	111.37		33	15.1	712.4
4		19	29.72	111.27		21	22.7	712.9
5		21	20.99	111.16	3	9	29.8	713.2
6	12	23	12.15	111.05	+ 2	57	36.6	−713.6
7		25	3.20	110.96		45	43.0	713.9
8		26	54.16	110.87		33	49.1	714.2
9		28	45.03	110.79		21	54.9	714.3
10		30	35.82	110.70	2	10	0.6	714.5
11		32	26.52	110.62	1	58	6.1	714.7
12	12	34	17.14	110.54	+ 1	46	11.4	−714.7
13		36	7.68	110.46		34	16.7	714.8
14		37	58.14	110.39		22	21.9	714.8
15		39	48.53	110.33	1	10	27.1	714.7
16		41	38.86	110.26	0	58	32.4	714.7
17		43	29.12	110.19		46	37.7	714.5
18	12	45	19.31	110.13	+ 0	34	43.2	−714.3
19		47	9.44	110.07		22	48.9	714.1
20		48	59.51	110.02	+ 0	10	54.8	713.8
21		50	49.53	109.98	− 0	0	59.0	713.5
22		52	39.51	109.92		12	52.5	713.2
23		54	29.43	109.88		24	45.7	712.8
	9 月 9 日							
0	12	56	19.31	109.84	− 0	36	38.5	−712.4
1		58	9.15	109.80	0	48	30.9	711.9
2	12	59	58.95	109.77	1	0	22.8	711.4
3	13	1	48.72	109.74		12	14.2	710.7
4		3	38.46	109.71		24	4.9	710.2
5		5	28.17	109.69		35	55.1	709.6
6	13	7	17.86	109.67	− 1	47	44.7	−709.0
7		9	7.53	109.65	1	59	33.7	708.2
8		10	57.18	109.63	2	11	21.9	707.4
9		12	46.81	109.62		23	9.3	706.6
10		14	36.43	109.61		34	55.9	705.8
11		16	26.04	109.61		46	41.7	705.0
12	13	18	15.65	109.61	− 2	58	26.7	−704.1
13		20	5.26	109.61	3	10	10.8	703.1
14		21	54.87	109.61		21	53.9	702.0
15		23	44.48	109.61		33	35.9	701.0
16		25	34.10	109.62		45	16.9	700.0
17		27	23.73	109.63	3	56	56.9	698.8
18	13	29	13.38	109.65	− 4	8	35.7	−697.7
19		31	3.05	109.67		20	13.4	696.5
20		32	52.73	109.68		31	49.9	695.2
21		34	42.44	109.71		43	25.1	694.0
22		36	32.17	109.73	4	54	59.1	692.7
23		38	21.93	109.76	5	6	31.8	691.3
	9 月 10 日							
0	13	40	11.73	109.84	− 5	18	3.1	−689.9
1		42	1.57	109.87		29	33.0	688.5
2		43	51.44	109.91		41	1.5	687.1
3		45	41.35	109.96	5	52	28.6	685.5
4		47	31.31	110.01	6	3	54.1	684.0
5		49	21.32	110.07		15	18.1	682.4
6	13	51	11.39	110.12	− 6	26	40.5	−680.8
7		53	1.51	110.18		38	1.3	679.1
8		54	51.69	110.24	6	49	20.4	677.4
9		56	41.93	110.30	7	0	37.8	675.7
10	13	58	32.23	110.37		11	53.5	674.0
11	14	0	22.60	110.45		23	7.5	−672.2
12	14	2	13.05	110.52	− 7	34	19.7	−670.3
	9 月 10 日							
13		4	3.57	110.59		45	30.0	668.4
14		5	54.16	110.68	7	56	38.4	666.4
15		7	44.84	110.76	8	7	44.8	664.4
16		9	35.60	110.85		18	49.2	662.5
17		11	26.45	110.93		29	51.7	660.5
18	14	13	17.38	111.02	− 8	40	52.2	−658.4
19		15	8.40	111.12	8	51	50.6	656.2
20		16	59.52	111.22	9	2	46.8	654.1
21		18	50.74	111.32		13	40.9	651.9
22		20	42.06	111.43		24	32.8	649.7
23		22	33.49	111.53		35	22.5	647.4
	9 月 11 日							
0	14	24	25.02	111.64	− 9	46	9.9	−645.1
1		26	16.66	111.76		56	55.0	642.7
2		28	8.42	111.88	10	7	37.7	640.4
3		30	0.30	111.99		18	18.1	637.9
4		31	52.29	112.12		28	56.0	635.5
5		33	44.41	112.23		39	31.5	632.9
6	14	35	36.64	112.36	−10	50	4.4	−630.4
7		37	29.00	112.50	11	0	34.8	627.7
8		39	21.50	112.63		11	2.5	625.2
9		41	14.13	112.77		21	27.7	622.6
10		43	6.90	112.91		31	50.3	619.9
11		44	59.81	113.05		42	10.2	617.0
12	14	46	52.86	113.19	−11	52	27.2	−614.3
13		48	46.05	113.34	12	2	41.5	611.5
14		50	39.39	113.49		12	53.0	608.7
15		52	32.88	113.65		23	1.7	605.7
16		54	26.53	113.80		33	7.4	602.8
17		56	20.33	113.96		43	10.2	599.8
18	14	58	14.29	114.12	−12	53	10.0	−596.8
19	15	0	8.41	114.28	13	3	6.8	593.7
20		2	2.69	114.45		13	0.5	590.7
21		3	57.14	114.62		22	51.2	587.5
22		5	51.76	114.79		32	38.7	584.4
23		7	46.55	114.96		42	23.1	581.1
	9 月 12 日							
0	15	9	41.51	115.14	−13	52	4.2	−577.9
1		11	36.65	115.32	14	1	42.1	574.5
2		13	31.97	115.50		11	16.6	571.2
3		15	27.47	115.69		20	47.8	567.8
4		17	23.16	115.88		30	15.6	564.4
5		19	19.04	116.06		39	40.0	561.0
6	15	21	15.10	116.25	−14	49	1.0	−557.5
7		23	11.35	116.45	14	58	18.5	553.8
8		25	7.80	116.65	15	7	32.3	550.3
9		27	4.45	116.84		16	42.6	546.7
10		29	1.29	117.05		25	49.3	543.0
11		30	58.34	117.25		34	52.3	539.2
12	15	32	55.59	117.45	−15	43	51.5	−535.5
13		34	53.04	117.66	15	52	47.0	531.8
14		36	50.70	117.87	16	1	38.8	527.9
15		38	48.57	118.08		10	26.7	524.0
16		40	46.65	118.30		19	10.7	520.1
17		42	44.95	118.51		27	50.8	516.1
18	15	44	43.46	118.73	−16	36	26.9	−512.1
19		46	42.19	118.95		44	59.0	508.0
20		48	41.14	119.17	16	53	27.0	503.9
21		50	40.31	119.39	17	1	50.9	499.8
22		52	39.70	119.62		10	10.7	495.6
23		54	39.32	119.85		18	26.3	−491.3
24	15	56	39.17		−17	26	37.6	

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	9 月 13 日							
h	h	m	s	s	°	′	″	″
0	15	56	39.17	120.07	−17	26	37.6	−487.1
1	15	58	39.24	120.31		34	44.7	482.8
2	16	0	39.55	120.54		42	47.5	478.4
3		2	40.09	120.77		50	45.9	473.9
4		4	40.86	121.01	17	58	39.8	469.5
5		6	41.87	121.24	18	6	29.3	465.1
6	16	8	43.11	121.49	−18	14	14.4	−460.5
7		10	44.60	121.72		21	54.9	455.9
8		12	46.32	121.96		29	30.8	451.2
9		14	48.28	122.21		37	2.0	446.6
10		16	50.49	122.45		44	28.6	441.9
11		18	52.94	122.70		51	50.5	437.1
12	16	20	55.64	122.94	−18	59	7.6	−432.3
13		22	58.58	123.19	19	6	19.9	427.5
14		25	1.77	123.44		13	27.4	422.6
15		27	5.21	123.70		20	30.0	417.5
16		29	8.91	123.94		27	27.5	412.6
17		31	12.85	124.19		34	20.1	407.6
18	16	33	17.04	124.45	−19	41	7.7	−402.5
19		35	21.49	124.71		47	50.2	397.3
20		37	26.20	124.95	19	54	27.5	392.1
21		39	31.15	125.21	20	0	59.6	386.9
22		41	36.36	125.47		7	26.5	381.7
23		43	41.83	125.72		13	48.2	376.3
	9 月 14 日							
0	16	45	47.55	125.98	−20	20	4.5	−371.0
1		47	53.53	126.24		26	15.5	365.6
2		49	59.77	126.50		32	21.1	360.1
3		52	6.27	126.75		38	21.2	354.5
4		54	13.02	127.01		44	15.7	349.1
5		56	20.03	127.27		50	4.8	343.5
6	16	58	27.30	127.53	−20	55	48.3	−337.8
7	17	0	34.83	127.79	21	1	26.1	332.0
8		2	42.62	128.05		6	58.1	326.3
9		4	50.67	128.30		12	24.4	320.6
10		6	58.97	128.56		17	45.0	314.8
11		9	7.53	128.82		22	59.8	308.9
12	17	11	16.35	129.08	−21	28	8.7	−303.0
13		13	25.43	129.34		33	11.7	297.0
14		15	34.77	129.60		38	8.7	291.0
15		17	44.37	129.85		42	59.7	284.9
16		19	54.22	130.11		47	44.6	278.8
17		22	4.33	130.36		52	23.4	272.7
18	17	24	14.69	130.62	−21	56	56.1	−266.5
19		26	25.31	130.87	22	1	22.6	260.2
20		28	36.18	131.13		5	42.8	254.0
21		30	47.31	131.38		9	56.8	247.6
22		32	58.69	131.63		14	4.4	241.3
23		35	10.32	131.89		18	5.7	234.8
	9 月 15 日							
0	17	37	22.21	132.14	−22	22	0.5	−228.4
1		39	34.35	132.38		25	48.9	221.8
2		41	46.73	132.63		29	30.7	215.3
3		43	59.36	132.88		33	6.0	208.6
4		46	12.24	133.12		36	34.6	202.1
5		48	25.36	133.36		39	56.7	195.4
6	17	50	38.72	133.61	−22	43	12.1	−188.6
7		52	52.33	133.84		46	20.7	181.8
8		55	6.17	134.08		49	22.5	175.1
9		57	20.25	134.32		52	17.6	168.2
10	17	59	34.57	134.55		55	5.8	161.3
11	18	1	49.12	134.79	22	57	47.1	−154.3
12	18	4	3.91		−23	0	21.4	

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	9 月 15 日							
h	h	m	s	s	°	′	″	″
12	18	4	3.91	135.02	−23	0	21.4	−147.4
13		6	18.93	135.24		2	48.8	140.4
14		8	34.17	135.47		5	9.2	133.3
15		10	49.64	135.69		7	22.5	126.2
16		13	5.33	135.92		9	28.7	119.0
17		15	21.25	136.14		11	27.7	111.8
18	18	17	37.39	136.35	−23	13	19.5	−104.6
19		19	53.74	136.57		15	4.1	97.4
20		22	10.31	136.78		16	41.5	90.1
21		24	27.09	137.00		18	11.6	82.7
22		26	44.09	137.20		19	34.3	75.4
23		29	1.29	137.40		20	49.7	68.0
	9 月 16 日							
0	18	31	18.69	137.61	−23	21	57.7	−60.5
1		33	36.30	137.80		22	58.2	53.1
2		35	54.10	138.00		23	51.3	45.6
3		38	12.10	138.20		24	36.9	38.0
4		40	30.30	138.39		25	14.9	30.5
5		42	48.69	138.57		25	45.4	22.8
6	18	45	7.26	138.75	−23	26	8.2	−15.2
7		47	26.01	138.93		26	23.4	−7.5
8		49	44.94	139.11		26	30.9	+0.1
9		52	4.05	139.28		26	30.8	7.9
10		54	23.33	139.46		26	22.9	15.7
11		56	42.79	139.62		26	7.2	23.4
12	18	59	2.41	139.79	−23	25	43.8	+31.3
13	19	1	22.20	139.95		25	12.5	39.0
14		3	42.15	140.10		24	33.5	46.9
15		6	2.25	140.26		23	46.6	54.9
16		8	22.51	140.41		22	51.7	62.8
17		10	42.92	140.56		21	48.9	70.7
18	19	13	3.48	140.70	−23	20	38.2	+78.6
19		15	24.18	140.83		19	19.6	86.6
20		17	45.01	140.97		17	53.0	94.7
21		20	5.98	141.11		16	18.3	102.6
22		22	27.09	141.23		14	35.7	110.7
23		24	48.32	141.35		12	45.0	118.7
	9 月 17 日							
0	19	27	9.67	141.47	−23	10	46.3	+126.8
1		29	31.14	141.59		8	39.5	134.9
2		31	52.73	141.71		6	24.6	143.0
3		34	14.44	141.81		4	1.6	151.1
4		36	36.25	141.92	23	1	30.5	159.2
5		38	58.17	142.01	22	58	51.3	167.4
6	19	41	20.18	142.11	−22	56	3.9	+175.5
7		43	42.29	142.20		53	8.4	183.7
8		46	4.49	142.29		50	4.7	191.9
9		48	26.78	142.38		46	52.8	200.1
10		50	49.16	142.46		43	32.7	208.2
11		53	11.62	142.54		40	4.5	216.4
12	19	55	34.16	142.61	−22	36	28.1	+224.6
13	19	57	56.77	142.68		32	43.5	232.8
14	20	0	19.45	142.75		28	50.7	241.0
15		2	42.20	142.81		24	49.7	249.2
16		5	5.01	142.86		20	40.5	257.4
17		7	27.87	142.92		16	23.1	265.7
18	20	9	50.79	142.97	−22	11	57.4	+273.8
19		12	13.76	143.02		7	23.6	282.0
20		14	36.78	143.06	22	2	41.6	290.1
21		16	59.84	143.10	21	57	51.5	298.3
22		19	22.94	143.13		52	53.2	306.5
23		21	46.07	143.17		47	46.7	314.7
24	20	24	9.24		−21	42	32.0	

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	9 月 18 日							
h	h	m	s	s	°	′	″	″
0	20	24	9.24	143.19	−21	42	32.0	+322.8
1		26	32.43	143.21		37	9.2	331.0
2		28	55.64	143.23		31	38.2	339.1
3		31	18.87	143.25		25	59.1	347.3
4		33	42.12	143.27		20	11.8	355.4
5		36	5.39	143.27		14	16.4	363.4
6	20	38	28.66	143.28	−21	8	13.0	+371.5
7		40	51.94	143.27		2	1.5	379.5
8		43	15.21	143.28	20	55	42.0	387.6
9		45	38.49	143.28		49	14.4	395.6
10		48	1.77	143.27		42	38.8	403.6
11		50	25.04	143.26		35	55.2	411.5
12	20	52	48.30	143.25	−20	29	3.7	+419.5
13		55	11.55	143.23		22	4.2	427.4
14		57	34.78	143.21		14	56.8	435.4
15	20	59	57.99	143.18		7	41.4	443.2
16	21	2	21.17	143.16	20	0	18.2	451.0
17		4	44.33	143.13	19	52	47.2	458.8
18	21	7	7.46	143.10	−19	45	8.4	+466.5
19		9	30.56	143.07		37	21.9	474.3
20		11	53.63	143.03		29	27.6	482.0
21		14	16.66	142.99		21	25.6	489.7
22		16	39.65	142.95		13	15.9	497.4
23		19	2.60	142.91	19	4	58.5	504.9
	9 月 19 日							
0	21	21	25.51	142.86	−18	56	33.6	+512.4
1		23	48.37	142.81		48	1.2	520.0
2		26	11.18	142.76		39	21.2	527.5
3		28	33.94	142.70		30	33.7	534.9
4		30	56.64	142.65		21	38.8	542.3
5		33	19.29	142.59		12	36.5	549.6
6	21	35	41.88	142.53	−18	3	26.9	+556.9
7		38	4.41	142.46	17	54	10.0	564.2
8		40	26.87	142.41		44	45.8	571.3
9		42	49.28	142.34		35	14.5	578.5
10		45	11.62	142.27		25	36.0	585.6
11		47	33.89	142.21		15	50.4	592.6
12	21	49	56.10	142.14	−17	5	57.8	+599.6
13		52	18.24	142.06	16	55	58.2	606.5
14		54	40.30	141.99		45	51.7	613.4
15		57	2.29	141.92		35	38.3	620.2
16	21	59	24.21	141.85		25	18.1	627.0
17	22	1	46.06	141.77		14	51.1	633.7
18	22	4	7.83	141.70	−16	4	17.4	+640.4
19		6	29.53	141.61	15	53	37.0	646.9
20		8	51.14	141.54		42	50.1	653.4
21		11	12.68	141.45		31	56.7	659.9
22		13	34.13	141.38		20	56.8	666.3
23		15	55.51	141.29	15	9	50.5	672.6
	9 月 20 日							
0	22	18	16.80	141.21	−14	58	37.9	+678.9
1		20	38.01	141.13		47	19.0	685.0
2		22	59.14	141.05		35	54.0	691.2
3		25	20.19	140.97		24	22.8	697.2
4		27	41.16	140.88		12	45.6	703.2
5		30	2.04	140.80	14	1	2.4	709.1
6	22	32	22.84	140.72	−13	49	13.3	+714.9
7		34	43.56	140.64		37	18.4	720.7
8		37	4.20	140.55		25	17.7	726.4
9		39	24.75	140.47		13	11.3	731.9
10		41	45.22	140.39	13	0	59.4	737.5
11		44	5.61	140.31	12	48	41.9	742.9
12	22	46	25.92		−12	36	19.0	

世界時	赤經				赤緯			
	9 月 20 日							
h	h	m	s	s	°	′	″	″
12	22	46	25.92	140.23	−12	36	19.0	+748.3
13		48	46.15	140.14		23	50.7	753.6
14		51	6.29	140.07	12	11	17.1	758.8
15		53	26.36	139.98	11	58	38.3	764.0
16		55	46.34	139.91		45	54.3	769.0
17	22	58	6.25	139.83		33	5.3	774.0
18	23	0	26.08	139.75	−11	20	11.3	+778.8
19		2	45.83	139.68		11	7	12.5	783.6
20		5	5.51	139.60		10	54	8.9	788.3
21		7	25.11	139.52			41	0.6	793.0
22		9	44.63	139.45			27	47.6	797.5
23		12	4.08	139.37			14	30.1	801.9
	9 月 21 日							
0	23	14	23.45	139.31	−10	1	8.2	+806.2
1		16	42.76	139.24		9	47	42.0	810.5
2		19	2.00	139.17			34	11.5	814.8
3		21	21.17	139.10			20	36.7	818.7
4		23	40.27	139.03		9	6	58.0	822.8
5		25	59.30	138.97		8	53	15.2	826.7
6	23	28	18.27	138.91	−	8	39	28.5	+830.5
7		30	37.18	138.85			25	38.0	834.2
8		32	56.03	138.80		8	11	43.8	837.8
9		35	14.83	138.73		7	57	46.0	841.3
10		37	33.56	138.68			43	44.7	844.7
11		39	52.24	138.62			29	40.0	848.1
12	23	42	10.86	138.57	−	7	15	31.9	+851.3
13		44	29.43	138.52		7	1	20.6	854.5
14		46	47.95	138.47		6	47	6.1	857.5
15		49	6.42	138.43			32	48.6	860.4
16		51	24.85	138.39			18	28.2	863.3
17		53	43.24	138.34		6	4	4.9	866.0
18	23	56	1.58	138.31	−	5	49	38.9	+868.6
19	23	58	19.89	138.27			35	10.3	871.1
20	0	0	38.16	138.24			20	39.2	873.6
21		2	56.40	138.20		5	6	5.6	875.9
22		5	14.60	138.17		4	51	29.7	878.2
23		7	32.77	138.14			36	51.5	880.3
	9 月 22 日							
0	0	9	50.91	138.12	−	4	22	11.2	+882.3
1		12	9.03	138.10		4	7	28.9	884.2
2		14	27.13	138.07		3	52	44.7	886.0
3		16	45.20	138.05			37	58.7	887.8
4		19	3.25	138.04			23	10.9	889.4
5		21	21.29	138.03		3	8	21.5	890.9
6	0	23	39.32	138.02	−	2	53	30.6	+892.3
7		25	57.34	138.01			38	38.3	893.5
8		28	15.35	138.01			23	44.8	894.7
9		30	33.35	138.00		2	8	50.1	895.8
10		32	51.35	138.00		1	53	54.3	896.8
11		35	9.35	138.00			38	57.5	897.7
12	0	37	27.35	138.01	−	1	23	59.8	+898.4
13		39	45.36	138.01		1	9	1.4	899.0
14		42	3.37	138.03		0	54	2.4	899.6
15		44	21.40	138.04			39	2.8	900.1
16		46	39.44	138.06			24	2.7	900.5
17		48	57.50	138.08	−	0	9	2.2	900.7
18	0	51	15.58	138.10	+	0	5	58.5	+900.7
19		53	33.68	138.12			20	59.2	900.7
20		55	51.80	138.15			35	59.9	900.6
21	0	58	9.95	138.18		0	51	0.5	900.5
22	1	0	28.13	138.21		1	6	1.0	900.2
23		2	46.34	138.25			21	1.2	899.8
24	1	5	4.59		+	1	36	1.0	

世界時	赤經		赤緯		
	9 月 23 日				
h	h m s	s	° ′ ″	″	″
0	1 5 4.59	138.29	+ 1 36 1.0	+	899.3
1	7 22.88	138.32	1 51 0.3		898.6
2	9 41.20	138.37	2 5 58.9		897.9
3	11 59.57	138.41	20 56.8		897.0
4	14 17.98	138.46	35 53.8		896.0
5	16 36.44	138.52	2 50 49.8		895.0
6	1 18 54.96	138.58	+ 3 5 44.8	+	893.8
7	21 13.54	138.63	20 38.6		892.5
8	23 32.17	138.69	35 31.1		891.2
9	25 50.86	138.75	3 50 22.3		889.7
10	28 9.61	138.81	4 5 12.0		888.1
11	30 28.42	138.88	20 0.1		886.3
12	1 32 47.30	138.95	+ 4 34 46.4	+	884.5
13	35 6.25	139.03	4 49 30.9		882.6
14	37 25.28	139.10	5 4 13.5		880.6
15	39 44.38	139.18	18 54.1		878.5
16	42 3.56	139.26	33 32.6		876.3
17	44 22.82	139.34	5 48 8.9		873.9
18	1 46 42.16	139.43	+ 6 2 42.8	+	871.5
19	49 1.59	139.51	17 14.3		868.9
20	51 21.10	139.60	31 43.2		866.3
21	53 40.70	139.70	6 46 9.5		863.5
22	56 0.40	139.79	7 0 33.0		860.7
23	1 58 20.19	139.89	14 53.7		857.7
	9 月 24 日				
0	2 0 40.08	139.99	+ 7 29 11.4	+	854.6
1	3 0.07	140.09	43 26.0		851.5
2	5 20.16	140.19	7 57 37.5		848.2
3	7 40.35	140.30	8 11 45.7		844.9
4	10 0.65	140.40	25 50.6		841.4
5	12 21.05	140.51	39 52.0		837.8
6	2 14 41.56	140.62	+ 8 53 49.8	+	834.2
7	17 2.18	140.74	9 7 44.0		830.3
8	19 22.92	140.85	21 34.3		826.6
9	21 43.77	140.97	35 20.9		822.5
10	24 4.74	141.09	9 49 3.4		818.5
11	26 25.83	141.20	10 2 41.9		814.3
12	2 28 47.03	141.33	+10 16 16.2	+	810.1
13	31 8.36	141.45	29 46.3		805.7
14	33 29.81	141.58	43 12.0		801.2
15	35 51.39	141.70	10 56 33.2		796.7
16	38 13.09	141.83	11 9 49.9		792.1
17	40 34.92	141.95	23 2.0		787.4
18	2 42 56.87	142.08	+11 36 9.4	+	782.5
19	45 18.95	142.22	11 49 11.9		777.6
20	47 41.17	142.34	12 2 9.5		772.6
21	50 3.51	142.48	15 2.1		767.5
22	52 25.99	142.61	27 49.6		762.3
23	54 48.60	142.75	40 31.9		757.0
	9 月 25 日				
0	2 57 11.35	142.88	+12 53 8.9	+	751.7
1	2 59 34.23	143.02	13 5 40.6		746.2
2	3 1 57.25	143.15	18 6.8		740.7
3	4 20.40	143.29	30 27.5		735.1
4	6 43.69	143.43	42 42.6		729.4
5	9 7.12	143.57	13 54 52.0		723.5
6	3 11 30.69	143.70	+14 6 55.5	+	717.7
7	13 54.39	143.84	18 53.2		711.7
8	16 18.23	143.98	30 44.9		705.6
9	18 42.21	144.12	42 30.5		699.5
10	21 6.33	144.25	14 54 10.0		693.3
11	23 30.58	144.39	15 5 43.3		687.1
12	3 25 54.97		+15 17 10.4	+	

世界時	赤經		赤緯		
	9 月 25 日				
h	h m s	s	° ′ ″	″	″
12	3 25 54.97	144.53	+15 17 10.4	+	680.7
13	28 19.50	144.67	28 31.1		674.3
14	30 44.17	144.81	39 45.4		667.8
15	33 8.98	144.94	15 50 53.2		661.2
16	35 33.92	145.07	16 1 54.4		654.5
17	37 58.99	145.21	12 48.9		647.7
18	3 40 24.20	145.34	+16 23 36.6	+	640.9
19	42 49.54	145.48	34 17.5		634.1
20	45 15.02	145.60	44 51.6		627.1
21	47 40.62	145.74	16 55 18.7		620.1
22	50 6.36	145.87	17 5 38.8		613.0
23	52 32.23	146.00	15 51.8		605.9
	9 月 26 日				
0	3 54 58.23	146.13	+17 25 57.7	+	598.7
1	57 24.36	146.25	35 56.4		591.4
2	3 59 50.61	146.37	45 47.8		584.0
3	4 2 16.98	146.49	17 55 31.8		576.6
4	4 43.47	146.62	18 5 8.4		569.2
5	7 10.09	146.73	14 37.6		561.6
6	4 9 36.82	146.85	+18 23 59.2	+	554.0
7	12 3.67	146.96	33 13.2		546.4
8	14 30.63	147.07	42 19.6		538.7
9	16 57.70	147.18	18 51 18.3		530.9
10	19 24.88	147.29	19 0 9.2		523.1
11	21 52.17	147.40	8 52.3		515.3
12	4 24 19.57	147.50	+19 17 27.6	+	507.4
13	26 47.07	147.59	25 55.0		499.3
14	29 14.66	147.69	34 14.3		491.3
15	31 42.35	147.79	42 25.6		483.3
16	34 10.14	147.88	50 28.9		475.2
17	36 38.02	147.97	19 58 24.1		467.1
18	4 39 5.99	148.05	+20 6 11.2	+	458.8
19	41 34.04	148.13	13 50.0		450.6
20	44 2.17	148.21	21 20.6		442.3
21	46 30.38	148.28	28 42.9		434.0
22	48 58.66	148.36	35 56.9		425.6
23	51 27.02	148.42	43 2.5		417.2
	9 月 27 日				
0	4 53 55.44	148.49	+20 49 59.7	+	408.8
1	56 23.93	148.55	20 56 48.5		400.3
2	4 58 52.48	148.60	21 3 28.8		391.9
3	5 1 21.08	148.66	10 0.7		383.3
4	3 49.74	148.71	16 24.0		374.7
5	6 18.45	148.76	22 38.7		366.1
6	5 8 47.21	148.80	+21 28 44.8	+	357.5
7	11 16.01	148.83	34 42.3		348.8
8	13 44.84	148.86	40 31.1		340.2
9	16 13.70	148.89	46 11.3		331.6
10	18 42.59	148.92	51 42.9		322.8
11	21 11.51	148.93	21 57 5.7		314.1
12	5 23 40.44	148.94	+22 2 19.8	+	305.3
13	26 9.38	148.96	7 25.1		296.5
14	28 38.34	148.97	12 21.6		287.7
15	31 7.31	148.97	17 9.3		279.0
16	33 36.28	148.96	21 48.3		270.2
17	36 5.24	148.96	26 18.5		261.3
18	5 38 34.20	148.95	+22 30 39.8	+	252.4
19	41 3.15	148.92	34 52.2		243.6
20	43 32.07	148.90	38 55.8		234.7
21	46 0.97	148.88	42 50.5		225.9
22	48 29.85	148.85	46 36.4		217.0
23	50 58.70	148.80	50 13.4		208.1
24	5 53 27.50		+22 53 41.5	+	

世界時	赤經		赤緯		
	9 月 28 日				
h	h m s	s	° ′ ″	″	″
0	5 53 27.50	148.77	+22 53 41.5	+	199.2
1	55 56.27	148.72	22 57 0.7		190.4
2	5 58 24.99	148.67	23 0 11.1		181.5
3	6 0 53.66	148.61	3 12.6		172.6
4	3 22.27	148.55	6 5.2		163.7
5	5 50.82	148.49	8 48.9		154.8
6	6 8 19.31	148.41	+23 11 23.7	+	146.0
7	10 47.72	148.33	13 49.7		137.2
8	13 16.05	148.25	16 6.9		128.3
9	15 44.30	148.17	18 15.2		119.4
10	18 12.47	148.08	20 14.6		110.6
11	20 40.55	147.97	22 5.2		101.8
12	6 23 8.52	147.87	+23 23 47.0	+	93.0
13	25 36.39	147.77	25 20.0		84.1
14	28 4.16	147.66	26 44.1		75.4
15	30 31.82	147.54	27 59.5		66.6
16	32 59.36	147.42	29 6.1		57.9
17	35 26.78	147.30	30 4.0		49.2
18	6 37 54.08	147.16	+23 30 53.2	+	40.5
19	40 21.24	147.02	31 33.7		31.9
20	42 48.26	146.88	32 5.6		23.2
21	45 15.14	146.74	32 28.8		14.5
22	47 41.88	146.59	32 43.3	+	5.9
23	50 8.47	146.43	32 49.2	−	2.7
	9 月 29 日				
0	6 52 34.90	146.27	+23 32 46.5	−	11.2
1	55 1.17	146.11	32 35.3		19.8
2	57 27.28	145.94	32 15.5		28.2
3	6 59 53.22	145.76	31 47.3		36.7
4	7 2 18.98	145.59	31 10.6		45.1
5	4 44.57	145.40	30 25.5		53.5
6	7 7 9.97	145.22	+23 29 32.0	−	61.9
7	9 35.19	145.03	28 30.1		70.2
8	12 0.22	144.84	27 19.9		78.5
9	14 25.06	144.63	26 1.4		86.7
10	16 49.69	144.43	24 34.7		95.0
11	19 14.12	144.22	22 59.7		103.2
12	7 21 38.34	144.01	+23 21 16.5	−	111.3
13	24 2.35	143.80	19 25.2		119.4
14	26 26.15	143.58	17 25.8		127.5
15	28 49.73	143.35	15 18.3		135.5
16	31 13.08	143.13	13 2.8		143.5
17	33 36.21	142.90	10 39.3		151.4
18	7 35 59.11	142.66	+23 8 7.9	−	159.3
19	38 21.77	142.43	5 28.6		167.1
20	40 44.20	142.19	23 2 41.5		175.0
21	43 6.39	141.94	22 59 46.5		182.7
22	45 28.33	141.70	56 43.8		190.4
23	47 50.03	141.46	53 33.4		198.1
	9 月 30 日				
0	7 50 11.49	141.20	+22 50 15.3	−	205.7
1	52 32.69	140.94	46 49.6		213.2
2	54 53.63	140.68	43 16.4		220.7
3	57 14.31	140.42	39 35.7		228.2
4	7 59 34.73	140.16	35 47.5		235.6
5	8 1 54.89	139.90	31 51.9		242.9
6	8 4 14.79	139.63	+22 27 49.0	−	250.3
7	6 34.42	139.35	23 38.7		257.5
8	8 53.77	139.08	19 21.2		264.7
9	11 12.85	138.80	14 56.5		271.8
10	13 31.65	138.53	10 24.7		278.9
11	15 50.18	138.24	5 45.8	−	286.0
12	8 18 8.42		+22 0 59.8	−	

世界時	赤經		赤緯		
	9 月 30 日				
h	h m s	s	° ′ ″	″	″
12	8 18 8.42	137.97	+22 0 59.8	−	292.9
13	20 26.39	137.68	21 56 6.9		299.9
14	22 44.07	137.40	51 7.0		306.8
15	25 1.47	137.11	46 0.2		313.5
16	27 18.58	136.82	40 46.7		320.3
17	29 35.40	136.53	35 26.4		327.0
18	8 31 51.93	136.24	+21 29 59.4	−	333.7
19	34 8.17	135.95	24 25.7		340.3
20	36 24.12	135.66	18 45.4		346.8
21	38 39.78	135.36	12 58.6		353.2
22	40 55.14	135.06	7 5.4		359.7
23	43 10.20	134.76	21 1 5.7		366.0
	10 月 1 日				
0	8 45 24.96	134.48	+20 54 59.7	−	372.3
1	47 39.44	134.17	48 47.4		378.5
2	49 53.61	133.87	42 28.9		384.7
3	52 7.48	133.57	36 4.2		390.9
4	54 21.05	133.27	29 33.3		397.0
5	56 34.32	132.97	22 56.3		402.9
6	8 58 47.29	132.67	+20 16 13.4	−	408.9
7	9 0 59.96	132.37	9 24.5		414.7
8	3 12.33	132.07	20 2 29.8		420.6
9	5 24.40	131.77	19 55 29.2		426.3
10	7 36.17	131.47	48 22.9		432.0
11	9 47.64	131.16	41 10.9		437.6
12	9 11 58.80	130.87	+19 33 53.3	−	443.2
13	14 9.67	130.56	26 30.1		448.7
14	16 20.23	130.26	19 1.4		454.2
15	18 30.49	129.96	11 27.2		459.6
16	20 40.45	129.67	19 3 47.6		465.0
17	22 50.12	129.36	18 56 2.6		470.3
18	9 24 59.48	129.07	+18 48 12.3	−	475.4
19	27 8.55	128.77	40 16.9		480.6
20	29 17.32	128.47	32 16.3		485.7
21	31 25.79	128.17	24 10.6		490.8
22	33 33.96	127.88	15 59.8		495.7
23	35 41.84	127.58	18 7 44.1		500.7
	10 月 2 日				
0	9 37 49.42	127.29	+17 59 23.4	−	505.6
1	39 56.71	126.99	50 57.8		510.3
2	42 3.70	126.70	42 27.5		515.0
3	44 10.40	126.42	33 52.5		519.7
4	46 16.82	126.13	25 12.8		524.4
5	48 22.95	125.84	16 28.4		528.9
6	9 50 28.79	125.55	+17 7 39.5	−	533.4
7	52 34.34	125.27	16 58 46.1		537.9
8	54 39.61	124.99	49 48.2		542.2
9	56 44.60	124.70	40 46.0		546.6
10	9 58 49.30	124.42	31 39.4		550.9
11	10 0 53.72	124.14	22 28.5		555.1
12	10 2 57.86	123.87	+16 13 13.4	−	559.3
13	5 1.73	123.59	16 3 54.1		563.3
14	7 5.32	123.31	15 54 30.8		567.3
15	9 8.63	123.04	45 3.5		571.3
16	11 11.67	122.77	35 32.2		575.3
17	13 14.44	122.51	25 56.9		579.1
18	10 15 16.95	122.24	+15 16 17.8	−	582.9
19	17 19.19	121.98	15 6 34.9		586.6
20	19 21.17	121.72	14 56 48.3		590.3
21	21 22.89	121.45	46 58.0		594.0
22	23 24.34	121.20	37 4.0		597.6
23	25 25.54	120.94	27 6.4		601.1
24	10 27 26.48		+14 17 5.3	−	

10月3日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	10	27	26.48	120.68	+14	17	5.3	−604.6
1		29	27.16	120.43		14	7	0.7	607.9
2		31	27.59	120.19		13	56	52.8	611.3
3		33	27.78	119.94			46	41.5	614.6
4		35	27.72	119.70			36	26.9	617.8
5		37	27.42	119.45			26	9.1	621.1
6	10	39	26.87	119.21	+13	15	48.0	−624.2
7		41	26.08	118.98		13	5	23.8	627.2
8		43	25.06	118.74		12	54	56.6	630.2
9		45	23.80	118.51			44	26.4	633.2
10		47	22.31	118.28			33	53.2	636.1
11		49	20.59	118.06			23	17.1	638.9
12	10	51	18.65	117.83	+12	12	38.2	−641.8
13		53	16.48	117.60		12	1	56.4	644.5
14		55	14.08	117.39		11	51	11.9	647.2
15		57	11.47	117.17			40	24.7	649.9
16	10	59	8.64	116.96			29	34.8	652.5
17	11	1	5.60	116.74			18	42.3	655.0
18	11	3	2.34	116.54	+11	7	47.3	−657.5
19		4	58.88	116.33		10	56	49.8	659.8
20		6	55.21	116.13			45	50.0	662.3
21		8	51.34	115.93			34	47.7	664.6
22		10	47.27	115.73			23	43.1	666.9
23		12	43.00	115.53			12	36.2	669.1

10月4日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	11	14	38.53	115.34	+10	1	27.1	−671.3
1		16	33.87	115.16		9	50	15.8	673.4
2		18	29.03	114.97			39	2.4	675.5
3		20	24.00	114.78			27	46.9	677.5
4		22	18.78	114.61			16	29.4	679.5
5		24	13.39	114.43		9	5	9.9	681.4
6	11	26	7.82	114.25	+	8	53	48.5	−683.3
7		28	2.07	114.08			42	25.2	685.0
8		29	56.15	113.91			31	0.2	686.9
9		31	50.06	113.75			19	33.3	688.6
10		33	43.81	113.59		8	8	4.7	690.3
11		35	37.40	113.42		7	56	34.4	691.8
12	11	37	30.82	113.27	+	7	45	2.6	−693.4
13		39	24.09	113.11			33	29.2	695.0
14		41	17.20	112.96			21	54.2	696.5
15		43	10.16	112.82		7	10	17.7	697.9
16		45	2.98	112.67		6	58	39.8	699.3
17		46	55.65	112.52			47	0.5	700.6
18	11	48	48.17	112.39	+	6	35	19.9	−701.9
19		50	40.56	112.25			23	38.0	703.2
20		52	32.81	112.12			11	54.8	704.3
21		54	24.93	111.99		6	0	10.5	705.5
22		56	16.92	111.86		5	48	25.0	706.6
23	11	58	8.78	111.74			36	38.4	707.6

10月5日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	12	0	0.52	111.62	+	5	24	50.8	−708.6
1		1	52.14	111.50			13	2.2	709.6
2		3	43.64	111.39		5	1	12.6	710.5
3		5	35.03	111.27		4	49	22.1	711.3
4		7	26.30	111.17			37	30.8	712.2
5		9	17.47	111.06			25	38.6	712.9
6	12	11	8.53	110.96	+	4	13	45.7	−713.7
7		12	59.49	110.86		4	1	52.0	714.3
8		14	50.35	110.76		3	49	57.7	715.0
9		16	41.11	110.67			38	2.7	715.5
10		18	31.78	110.58			26	7.2	716.1
11		20	22.36	110.50			14	11.1	716.7
12	12	22	12.86	110.41	+	3	2	14.4	−717.1
13		24	3.27	110.33		2	50	17.3	717.5
14		25	53.60	110.25			38	19.8	717.8
15		27	43.85	110.18			26	22.0	718.2
16		29	34.03	110.11			14	23.8	718.5
17		31	24.14	110.04		2	2	25.3	718.6
18	12	33	14.18	109.97	+	1	50	26.7	−718.9
19		35	4.15	109.91			38	27.8	719.1
20		36	54.06	109.86			26	28.7	719.1
21		38	43.92	109.79			14	29.6	719.1
22		40	33.71	109.74		1	2	30.5	719.2
23		42	23.45	109.70		0	50	31.3	719.1

10月6日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	12	44	13.15	109.65	+	0	38	32.2	−719.1
1		46	2.80	109.61			26	33.1	718.9
2		47	52.41	109.57			14	34.2	718.8
3		49	41.98	109.53	+	0	2	35.4	718.7
4		51	31.51	109.49	−	0	9	23.3	718.4
5		53	21.00	109.46			21	21.7	718.1
6	12	55	10.46	109.43	−	0	33	19.8	−717.8
7		56	59.89	109.41			45	17.6	717.4
8	12	58	49.30	109.39		0	57	15.0	716.9
9	13	0	38.69	109.37		1	9	11.9	716.5
10		2	28.06	109.35			21	8.4	716.1
11		4	17.41	109.33			33	4.5	715.4
12	13	6	6.74	109.33	−	1	44	59.9	−714.9
13		7	56.07	109.32		1	56	54.8	714.2
14		9	45.39	109.32		2	8	49.0	713.6
15		11	34.71	109.32			20	42.6	712.9
16		13	24.03	109.31			32	35.5	712.2
17		15	13.34	109.32			44	27.7	711.3
18	13	17	2.66	109.33	−	2	56	19.0	−710.5
19		18	51.99	109.34		3	8	9.5	709.6
20		20	41.33	109.36			19	59.1	708.7
21		22	30.69	109.38			31	47.8	707.7
22		24	20.07	109.39			43	35.5	706.7
23		26	9.46	109.41		3	55	22.2	705.6

10月7日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	13	27	58.87	109.45	−	4	7	7.8	−704.6
1		29	48.32	109.47			18	52.4	703.4
2		31	37.79	109.50			30	35.8	702.3
3		33	27.29	109.53			42	18.1	701.0
4		35	16.82	109.57		4	53	59.1	699.8
5		37	6.39	109.62		5	5	38.9	698.6
6	13	38	56.01	109.66	−	5	17	17.5	−697.2
7		40	45.67	109.70			28	54.7	695.8
8		42	35.37	109.75			40	30.5	694.4
9		44	25.12	109.81		5	52	4.9	693.0
10		46	14.93	109.86		6	3	37.9	691.5
11		48	4.79	109.92			15	9.4	689.8
12	13	49	54.71	109.98	−	6	26	39.2	−688.3
13		51	44.69	110.04			38	7.5	686.7
14		53	34.73	110.11		6	49	34.2	685.0
15		55	24.84	110.18		7	0	59.2	683.4
16		57	15.02	110.25			12	22.6	681.6
17	13	59	5.27	110.32			23	44.2	679.8
18	14	0	55.59	110.41	−	7	35	4.0	−677.9
19		2	46.00	110.48			46	21.9	676.1
20		4	36.48	110.57		7	57	38.0	674.2
21		6	27.05	110.65		8	8	52.2	672.3
22		8	17.70	110.73			20	4.5	670.2
23		10	8.43	110.83			31	14.7	−668.2
24	14	11	59.26		−	8	42	22.9	

10月8日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	14	11	59.26	110.92	−	8	42	22.9	−666.1
1		13	50.18	111.02		8	53	29.0	664.0
2		15	41.20	111.12		9	4	33.0	661.9
3		17	32.32	111.22			15	34.9	659.6
4		19	23.54	111.33			26	34.5	657.4
5		21	14.87	111.43			37	31.9	655.2
6	14	23	6.30	111.54	−	9	48	27.1	−652.8
7		24	57.84	111.66		9	59	19.9	650.4
8		26	49.50	111.77		10	10	10.3	648.1
9		28	41.27	111.88			20	58.4	645.6
10		30	33.15	112.00			31	44.0	643.1
11		32	25.15	112.13			42	27.1	640.5
12	14	34	17.28	112.25	−	10	53	7.6	−638.0
13		36	9.53	112.38		11	3	45.6	635.4
14		38	1.91	112.51			14	21.0	632.7
15		39	54.42	112.64			24	53.7	630.1
16		41	47.06	112.77			35	23.8	627.4
17		43	39.83	112.91			45	51.2	624.5
18	14	45	32.74	113.06	−	11	56	15.7	−621.7
19		47	25.80	113.19		12	6	37.4	618.9
20		49	18.99	113.34			16	56.3	616.0
21		51	12.33	113.48			27	12.3	612.9
22		53	5.81	113.63			37	25.2	610.0
23		54	59.44	113.79			47	35.2	607.0

10月9日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	14	56	53.23	113.94	−	12	57	42.2	−604.0
1	14	58	47.17	114.09		13	7	46.2	600.8
2	15	0	41.26	114.25			17	47.0	597.6
3		2	35.51	114.41			27	44.6	594.4
4		4	29.92	114.58			37	39.0	591.2
5		6	24.50	114.74			47	30.2	588.0
6	15	8	19.24	114.90	−	13	57	18.2	−584.7
7		10	14.14	115.07		14	7	2.9	581.2
8		12	9.21	115.24			16	44.1	577.8
9		14	4.45	115.41			26	21.9	574.4
10		15	59.86	115.59			35	56.3	570.9
11		17	55.45	115.76			45	27.2	567.4
12	15	19	51.21	115.95	−	14	54	54.6	−563.8
13		21	47.16	116.12		15	4	18.4	560.2
14		23	43.28	116.30			13	38.6	556.5
15		25	39.58	116.49			22	55.1	552.9
16		27	36.07	116.67			32	8.0	549.1
17		29	32.74	116.86			41	17.1	545.3
18	15	31	29.60	117.05	−	15	50	22.4	−541.4
19		33	26.65	117.24		15	59	23.8	537.6
20		35	23.89	117.43		16	8	21.4	533.7
21		37	21.32	117.63			17	15.1	529.8
22		39	18.95	117.82			26	4.9	525.7
23		41	16.77	118.02			34	50.6	521.7

10月10日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	15	43	14.79	118.22	−	16	43	32.3	−517.6
1		45	13.01	118.42		16	52	9.9	513.5
2		47	11.43	118.62		17	0	43.4	509.3
3		49	10.05	118.82			9	12.7	505.1
4		51	8.87	119.03			17	37.8	500.9
5		53	7.90	119.23			25	58.7	496.5
6	15	55	7.13	119.44	−	17	34	15.2	−492.1
7		57	6.57	119.65			42	27.3	487.8
8	15	59	6.22	119.86			50	35.1	483.4
9	16	1	6.08	120.07		17	58	38.5	478.9
10		3	6.15	120.28		18	6	37.4	474.4
11		5	6.43	120.49			14	31.8	469.8
12	16	7	6.92	120.71	−	18	22	21.6	−465.2
13		9	7.63	120.92			30	6.8	460.6
14		11	8.55	121.14			37	47.4	455.9
15		13	9.69	121.35			45	23.3	451.2
16		15	11.04	121.57		18	52	54.5	446.4
17		17	12.61	121.79		19	0	20.9	441.6
18	16	19	14.40	122.01	−	19	7	42.5	−436.7
19		21	16.41	122.23			14	59.2	431.8
20		23	18.64	122.45			22	11.0	426.9
21		25	21.09	122.67			29	17.9	421.9
22		27	23.76	122.90			36	19.8	416.8
23		29	26.66	123.11			43	16.6	411.8

10月11日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	16	31	29.77	123.34	−	19	50	8.4	−406.7
1		33	33.11	123.56		19	56	55.1	401.4
2		35	36.67	123.79		20	3	36.5	396.3
3		37	40.46	124.01			10	12.8	391.1
4		39	44.47	124.23			16	43.9	385.8
5		41	48.70	124.46			23	9.7	380.4
6	16	43	53.16	124.68	−	20	29	30.1	−375.1
7		45	57.84	124.90			35	45.2	369.7
8		48	2.74	125.13			41	54.9	364.2
9		50	7.87	125.35			47	59.1	358.7
10		52	13.22	125.58			53	57.8	353.1
11		54	18.80	125.80		20	59	50.9	347.5
12	16	56	24.60	126.03	−	21	5	38.4	−342.0
13	16	58	30.63	126.25			11	20.4	336.3
14	17	0	36.88	126.47			16	56.7	330.6
15		2	43.35	126.70			22	27.3	324.8
16		4	50.05	126.92			27	52.1	319.1
17		6	56.97	127.14			33	11.2	313.2
18	17	9	4.11	127.36	−	21	38	24.4	−307.3
19		11	11.47	127.58			43	31.7	301.4
20		13	19.05	127.81			48	33.1	295.4
21		15	26.86	128.02			53	28.5	289.5
22		17	34.88	128.25		21	58	18.0	283.5
23		19	43.13	128.46		22	3	1.5	277.4

10月12日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	17	21	51.59	128.68	−	22	7	38.9	−271.3
1		24	0.27	128.90			12	10.2	265.1
2		26	9.17	129.11			16	35.3	258.9
3		28	18.28	129.33			20	54.2	252.7
4		30	27.61	129.54			25	6.9	246.5
5		32	37.15	129.76			29	13.4	240.1
6	17	34	46.91	129.97	−	22	33	13.5	−233.8
7		36	56.88	130.17			37	7.3	227.4
8		39	7.05	130.38			40	54.7	221.0
9		41	17.43	130.59			44	35.7	214.5
10		43	28.02	130.80			48	10.2	208.1
11		45	38.82	131.00			51	38.3	201.5
12	17	47	49.82	131.21	−	22	54	59.8	−194.9
13		50	1.03	131.40			22	58	14.7	188.3
14		52	12.43	131.60		23	1	23.0	181.6
15		54	24.03	131.80			4	24.6	175.0
16		56	35.83	132.00			7	19.6	168.3
17	17	58	47.83	132.19			10	7.9	161.5
18	18	1	0.02	132.38	−	23	12	49.4	−154.8
19		3	12.40	132.57			15	24.2	147.9
20		5	24.97	132.76			17	52.1	141.1
21		7	37.73	132.95			20	13.2	134.2
22		9	50.68	133.13			22	27.4	127.3
23		12	3.81	133.31			24	34.7	120.4
24	18	14	17.12		−	23	26	35.1	

10 月 13 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	18	14	17.12	133.49	−23	26	35.1	−113.4
1		16	30.61	133.67		28	28.5	106.3
2		18	44.28	133.85		30	14.8	99.3
3		20	58.13	134.02		31	54.1	92.3
4		23	12.15	134.19		33	26.4	85.1
5		25	26.34	134.36		34	51.5	78.0
6	18	27	40.70	134.52	−23	36	9.5	−70.9
7		29	55.22	134.69		37	20.4	63.7
8		32	9.91	134.85		38	24.1	56.5
9		34	24.76	135.00		39	20.6	49.2
10		36	39.76	135.16		40	9.8	41.9
11		38	54.92	135.32		40	51.7	34.7
12	18	41	10.24	135.47	−23	41	26.4	−27.4
13		43	25.71	135.61		41	53.8	20.0
14		45	41.32	135.76		42	13.8	12.6
15		47	57.08	135.90		42	26.4	−5.2
16		50	12.98	136.04		42	31.6	+2.3
17		52	29.02	136.18		42	29.3	9.6
18	18	54	45.20	136.31	−23	42	19.7	+17.1
19		57	1.51	136.44		42	2.6	24.6
20	18	59	17.95	136.57		41	38.0	32.1
21	19	1	34.52	136.70		41	5.9	39.6
22		3	51.22	136.81		40	26.3	47.2
23		6	8.03	136.93		39	39.1	54.7

10 月 14 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	19	8	24.93	137.05	−23	38	44.4	+62.3
1		10	42.01	137.16		37	42.1	69.9
2		12	59.17	137.27		36	32.2	77.6
3		15	16.44	137.38		35	14.6	85.2
4		17	33.82	137.48		33	49.4	92.8
5		19	51.30	137.59		32	16.6	100.4
6	19	22	8.89	137.68	−23	30	36.2	+108.1
7		24	26.57	137.78		28	48.1	115.9
8		26	44.35	137.87		26	52.2	123.6
9		29	2.22	137.96		24	48.6	131.3
10		31	20.18	138.04		22	37.3	139.0
11		33	38.22	138.12		20	18.3	146.7
12	19	35	56.34	138.20	−23	17	51.6	+154.5
13		38	14.54	138.28		15	17.1	162.2
14		40	32.82	138.35		12	34.9	170.0
15		42	51.17	138.43		9	44.9	177.8
16		45	9.60	138.50		6	47.1	185.5
17		47	28.10	138.55		3	41.6	193.3
18	19	49	46.65	138.62	−23	0	28.3	+201.1
19		52	5.27	138.67		22	57	7.2	208.9
20		54	23.94	138.73		53	38.3	216.7
21		56	42.67	138.78		50	1.6	224.5
22	19	59	1.45	138.83		46	17.1	232.3
23	20	1	20.28	138.87		42	24.8	240.1

10 月 15 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	20	3	39.15	138.92	−22	38	24.7	+247.9
1		5	58.07	138.96		34	16.8	255.6
2		8	17.03	139.00		30	1.2	263.5
3		10	36.03	139.03		25	37.7	271.2
4		12	55.06	139.06		21	6.5	279.1
5		15	14.12	139.09		16	27.4	286.8
6	20	17	33.21	139.11	−22	11	40.6	+294.6
7		19	52.32	139.14		6	46.0	302.3
8		22	11.46	139.16		1	43.7	310.1
9		24	30.62	139.18	21	56	33.6	317.9
10		26	49.80	139.19		51	15.7	325.6
11		29	8.99	139.21		45	50.1	333.3
12	20	31	28.20		−21	40	16.8	+744.2

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	20	31	28.20	139.22	−21	40	16.8	+341.1
13		33	47.42	139.23		34	35.7	348.8
14		36	6.65	139.23		28	46.9	356.5
15		38	25.88	139.23		22	50.4	364.2
16		40	45.11	139.23		16	46.2	371.9
17		43	4.34	139.23		10	34.3	379.6
18	20	45	23.57	139.23	−21	4	14.7	+387.2
19		47	42.80	139.22		20	57	47.5	394.7
20		50	2.02	139.22		51	12.8	402.4
21		52	21.24	139.20		44	30.4	410.0
22		54	40.44	139.19		37	40.4	417.5
23		56	59.63	139.17		30	42.9	425.1

10 月 16 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	20	59	18.80	139.17	−20	23	37.8	+432.6
1	21	1	37.97	139.14		16	25.2	440.1
2		3	57.11	139.12		9	5.1	447.6
3		6	16.23	139.10	20	1	37.5	455.1
4		8	35.33	139.08	19	54	2.4	462.5
5		10	54.41	139.05		46	19.9	469.8
6	21	13	13.46	139.02	−19	38	30.1	+477.2
7		15	32.48	139.00		30	32.9	484.5
8		17	51.48	138.97		22	28.4	491.8
9		20	10.45	138.94		14	16.6	499.2
10		22	29.39	138.91	19	5	57.4	506.5
11		24	48.30	138.88	18	57	30.9	513.6
12	21	27	7.18	138.84	−18	48	57.3	+520.8
13		29	26.02	138.80		40	16.5	528.0
14		31	44.82	138.76		31	28.5	535.2
15		34	3.58	138.73		22	33.3	542.2
16		36	22.31	138.69		13	31.1	549.2
17		38	41.00	138.65	18	4	21.9	556.2
18	21	40	59.65	138.60	−17	55	5.7	+563.2
19		43	18.25	138.56		45	42.5	570.1
20		45	36.81	138.53		36	12.4	577.0
21		47	55.34	138.48		26	35.4	583.9
22		50	13.82	138.44		16	51.5	590.7
23		52	32.26	138.40	17	7	0.8	597.4

10 月 17 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	21	54	50.63	138.35	−16	57	3.4	+604.2
1		57	9.01	138.31		46	59.2	610.8
2	21	59	27.32	138.26		36	48.4	617.4
3	22	1	45.58	138.22		26	31.0	624.0
4		4	3.80	138.18		16	7.0	630.6
5		6	21.98	138.13	16	5	36.4	637.0
6	22	8	40.11	138.09	−15	54	59.4	+643.4
7		10	58.20	138.04		44	16.0	649.8
8		13	16.24	138.00		33	26.2	656.2
9		15	34.24	137.95		22	30.0	662.4
10		17	52.19	137.91		11	27.6	668.7
11		20	10.10	137.86	15	0	18.9	674.8
12	22	22	27.96	137.82	−14	49	4.1	+680.9
13		24	45.78	137.78		37	43.2	687.0
14		27	3.56	137.74		26	16.2	693.0
15		29	21.30	137.69		14	43.2	698.9
16		31	38.99	137.65	14	3	4.3	704.8
17		33	56.64	137.62	13	51	19.5	710.6
18	22	36	14.26	137.58	−13	39	28.9	+716.4
19		38	31.84	137.54		27	32.5	722.0
20		40	49.38	137.50		15	30.5	727.7
21		43	6.88	137.47	13	3	22.8	733.2
22		45	24.35	137.43	12	51	9.6	738.7
23		47	41.78	137.39		38	50.9	+744.2
24	22	49	59.17		−12	26	26.7	+916.0

10 月 18 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	22	49	59.17	137.36	−12	26	26.7	+749.5
1		52	16.53	137.33		13	57.2	754.9
2		54	33.86	137.30	12	1	22.3	760.1
3		56	51.16	137.28	11	48	42.2	765.3
4	22	59	8.44	137.25		35	56.9	770.3
5	23	1	25.69	137.22		23	6.6	775.3
6	23	3	42.91	137.20	−11	10	11.3	+780.2
7		6	0.11	137.17	10	57	11.1	785.1
8		8	17.28	137.15		44	6.0	790.0
9		10	34.43	137.13		30	56.0	794.7
10		12	51.56	137.11		17	41.3	799.3
11		15	8.67	137.10	10	4	22.0	803.8
12	23	17	25.77	137.08	− 9	50	58.2	+808.3
13		19	42.85	137.07		37	29.9	812.8
14		21	59.92	137.06		23	57.1	817.1
15		24	16.98	137.05	9	10	20.0	821.4
16		26	34.04	137.05	8	56	38.6	825.5
17		28	51.09	137.05		42	53.1	829.5
18	23	31	8.14	137.04	− 8	29	3.6	+833.6
19		33	25.18	137.04		15	10.0	837.5
20		35	42.22	137.04	8	1	12.5	841.4
21		37	59.26	137.04	7	47	11.1	845.1
22		40	16.31	137.05		33	6.0	848.8
23		42	33.37	137.06		18	57.2	852.3

10 月 19 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	23	44	50.43	137.08	− 7	4	44.9	+855.8
1		47	7.51	137.09	6	50	29.1	859.2
2		49	24.60	137.11		36	9.9	862.5
3		51	41.71	137.13		21	47.4	865.7
4		53	58.84	137.15	6	7	21.7	868.8
5		56	15.99	137.18	5	52	52.9	871.9
6	23	58	33.17	137.21	− 5	38	21.0	+874.8
7	0	0	50.38	137.23		23	46.2	877.6
8		3	7.61	137.27	5	9	8.6	880.4
9		5	24.88	137.30	4	54	28.2	883.1
10		7	42.18	137.34		39	45.1	885.6
11		9	59.52	137.38		24	59.5	888.0
12	0	12	16.90	137.43	− 4	10	11.5	+890.4
13		14	34.33	137.47	3	55	21.1	892.7
14		16	51.80	137.52		40	28.4	894.9
15		19	9.32	137.56		25	33.5	896.9
16		21	26.88	137.62	3	10	36.6	898.8
17		23	44.50	137.68	2	55	37.8	900.7
18	0	26	2.18	137.74	− 2	40	37.1	+902.4
19		28	19.92	137.80		25	34.7	904.1
20		30	37.72	137.87	2	10	30.6	905.7
21		32	55.59	137.93	1	55	24.9	907.1
22		35	13.52	138.01		40	17.8	908.4
23		37	31.53	138.09		25	9.4	909.7

10 月 20 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	0	39	49.62	138.17	− 1	9	59.7	+910.8
1		42	7.79	138.24	0	54	48.9	911.8
2		44	26.03	138.32		39	37.1	912.7
3		46	44.35	138.41		24	24.4	913.5
4		49	2.76	138.50	− 0	9	10.9	914.2
5		51	21.26	138.60	+ 0	6	3.3	914.9
6	0	53	39.86	138.69	+ 0	21	18.2	+915.3
7		55	58.55	138.78		36	33.5	915.6
8	0	58	17.33	138.88	0	51	49.1	915.9
9	1	0	36.21	138.99	1	7	5.0	916.0
10		2	55.20	139.10		22	21.0	916.0
11		5	14.30	139.21		37	37.0	916.0
12	1	7	33.51		+ 1	52	53.0	+916.0

10 月 20 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	1	7	33.51	139.32	+ 1	52	53.0	+915.8
13		9	52.83	139.43	2	8	8.8	915.5
14		12	12.26	139.56		23	24.3	915.0
15		14	31.82	139.68		38	39.3	914.5
16		16	51.50	139.80	2	53	53.8	913.9
17		19	11.30	139.92	3	9	7.7	913.1
18	1	21	31.22	140.05	+ 3	24	20.8	+912.2
19		23	51.27	140.19		39	33.0	911.2
20		26	11.46	140.32	3	54	44.2	910.2
21		28	31.78	140.46	4	9	54.4	908.9
22		30	52.24	140.60		25	3.3	907.6
23		33	12.84	140.74		40	10.9	906.1

10 月 21 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	1	35	33.58	140.88	+ 4	55	17.0	+904.5
1		37	54.46	141.03	5	10	21.5	902.8
2		40	15.49	141.18		25	24.3	901.1
3		42	36.67	141.33		40	25.4	899.1
4		44	58.00	141.49	5	55	24.5	897.1
5		47	19.49	141.64	6	10	21.6	894.9
6	1	49	41.13	141.81	+ 6	25	16.5	+892.7
7		52	2.94	141.97		40	9.2	890.2
8		54	24.91	142.13	6	54	59.4	887.7
9		56	47.04	142.30	7	9	47.1	885.1
10	1	59	9.34	142.46		24	32.2	882.4
11	2	1	31.80	142.63		39	14.6	879.5
12	2	3	54.43	142.80	+ 7	53	54.1	+876.5
13		6	17.23	142.98	8	8	30.6	873.5
14		8	40.21	143.16		23	4.1	870.3
15		11	3.37	143.33		37	34.4	866.9
16		13	26.70	143.51	8	52	1.3	863.5
17		15	50.21	143.70	9	6	24.8	859.8
18	2	18	13.91	143.88	+ 9	20	44.6	+856.2
19		20	37.79	144.06		35	0.8	852.5
20		23	1.85	144.24	9	49	13.3	848.5
21		25	26.09	144.42	10	3	21.8	844.5
22		27	50.51	144.62		17	26.3	840.4
23		30	15.13	144.80		31	26.7	836.2

10 月 22 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	2	32	39.93	144.99	+10	45	22.9	+831.8
1		35	4.92	145.19	10	59	14.7	827.3
2		37	30.11	145.38	11	13	2.0	822.7
3		39	55.49	145.57		26	44.7	818.0
4		42	21.06	145.76		40	22.7	813.2
5		44	46.82	145.96	11	53	55.9	808.2
6	2	47	12.78	146.15	+12	7	24.1	+803.2
7		49	38.93	146.35		20	47.3	798.1
8		52	5.28	146.54		34	5.4	792.9
9		54	31.82	146.74	12	47	18.3	787.5
10		56	58.56	146.93	13	0	25.8	782.0
11	2	59	25.49	147.13		13	27.8	776.5
12	3	1	52.62	147.32	+13	26	24.3	+770.8
13		4	19.94	147.52		39	15.1	765.0
14		6	47.46	147.71	13	52	0.1	759.1
15		9	15.17	147.91	14	4	39.2	753.1
16		11	43.08	148.10		17	12.3	747.1
17		14	11.18	148.30		29	39.4	740.8
18	3	16	39.48	148.48	+14	42	0.2	+734.5
19		19	7.96	148.68	14	54	14.7	728.1
20		21	36.64	148.87	15	6	22.8	721.7
21		24	5.51	149.06		18	24.5	715.1
22		26	34.57	149.25		30	19.6	708.3
23		29	3.82	149.44		42	7.9	701.5
24	3	31	33.26		+15	53	49.4	+701.5

10 月 23 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	3	31	33.26	149.62	+15	53	49.4	+694.7
1		34	2.88	149.80		16	5	24.1 687.7
2		36	32.68	149.99			16	51.8 680.6
3		39	2.67	150.17			28	12.4 673.5
4		41	32.84	150.35			39	25.9 666.2
5		44	3.19	150.52		16	50	32.1 658.9
6	3	46	33.71		+17	1	31.0	
7		49	4.41	150.70			12	22.5 +651.5
8		51	35.28	150.87			23	6.5 644.0
9		54	6.32	151.04			33	42.9 636.4
10		56	37.52	151.20			44	11.6 628.7
11	3	59	8.89	151.37		17	54	32.5 620.9
				151.53				613.1
12	4	1	40.42		+18	4	45.6	
13		4	12.11	151.69			14	50.8 +605.2
14		6	43.95	151.84			24	48.0 597.2
15		9	15.95	152.00			34	37.1 589.1
16		11	48.09	152.14			44	18.1 581.0
17		14	20.38	152.29		18	53	50.9 572.8
				152.43				564.6
18	4	16	52.81		+19	3	15.5	
19		19	25.38	152.57			12	31.7 +556.2
20		21	58.08	152.70			21	39.4 547.7
21		24	30.92	152.84			30	38.7 539.3
22		27	3.88	152.96			39	29.4 530.7
23		29	36.96	153.08			48	11.5 522.1
				153.20				513.4

10 月 24 日

0	4	32	10.16		+19	56	44.9	
1		34	43.47	153.31		20	5	9.6 +504.7
2		37	16.90	153.43			13	25.5 495.9
3		39	50.43	153.53			21	32.5 487.0
4		42	24.06	153.63			29	30.7 478.2
5		44	57.78	153.72			37	20.0 469.3
				153.81				460.2
6	4	47	31.59		+20	45	0.2	
7		50	5.48	153.89			52	31.4 +451.2
8		52	39.46	153.98		20	59	53.5 442.1
9		55	13.51	154.05		21	7	6.5 433.0
10	4	57	47.63	154.12			14	10.2 423.7
11	5	0	21.82	154.19			21	4.7 414.5
				154.24				405.3
12	5	2	56.06		+21	27	50.0	
13		5	30.36	154.30			34	26.0 +396.0
14		8	4.70	154.34			40	52.6 386.6
15		10	39.09	154.39			47	9.9 377.3
16		13	13.51	154.42			53	17.8 367.9
17		15	47.97	154.46		21	59	16.3 358.5
				154.47				349.0
18	5	18	22.44		+22	5	5.3	
19		20	56.93	154.49			10	44.9 +339.6
20		23	31.44	154.51			16	14.9 330.0
21		26	5.95	154.51			21	35.4 320.5
22		28	40.46	154.51			26	46.3 310.9
23		31	14.96	154.50			31	47.7 301.4
				154.49				291.8

10 月 25 日

0	5	33	49.45		+22	36	39.5	
1		36	23.92	154.47		41	21.8	+282.3
2		38	58.37	154.45		45	54.4	272.6
3		41	32.79	154.42		50	17.4	263.0
4		44	7.17	154.38		54	30.7	253.3
5		46	41.50	154.33		22	58	34.5 243.8
				154.28				234.1
6	5	49	15.78		+23	2	28.6	
7		51	50.00	154.22			6	13.1 +224.5
8		54	24.16	154.16			9	47.9 214.8
9		56	58.25	154.09			13	13.1 205.2
10	5	59	32.27	154.02			16	28.7 195.6
11	6	2	6.20	153.93			19	34.7 186.0
12	6	4	40.03	153.83	+23	22	31.0	+176.3

10 月 25 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	6	4	40.03		+23	22	31.0	
				153.74				+166.7
13		7	13.77	153.64		25	17.7	157.1
14		9	47.41	153.53		27	54.8	147.6
15		12	20.94	153.42		30	22.4	137.9
16		14	54.36	153.29		32	40.3	128.4
17		17	27.65	153.16		34	48.7	118.8
18	6	20	0.81		+23	36	47.5	
19		22	33.84	153.03		38	36.8	+109.3
20		25	6.73	152.89		40	16.6	99.8
21		27	39.47	152.74		41	46.9	90.3
22		30	12.06	152.59		43	7.7	80.8
23		32	44.48	152.42		44	19.1	71.4
				152.26				62.0

10 月 26 日

0	6	35	16.74		+23	45	21.1	
1		37	48.83	152.09		46	13.8	+ 52.7
2		40	20.74	151.91		46	57.0	43.2
3		42	52.46	151.72		47	30.9	33.9
4		45	23.99	151.53		47	55.5	24.6
5		47	55.33	151.34		48	10.9	15.4
				151.14				+ 6.2
6	6	50	26.47		+23	48	17.1	
7		52	57.40	150.93		48	14.1	− 3.0
8		55	28.11	150.71		48	1.9	12.2
9	6	57	58.61	150.50		47	40.6	21.3
10	7	0	28.88	150.27		47	10.3	30.3
11		2	58.92	150.04		46	31.0	39.3
				149.81				48.3
12	7	5	28.73		+23	45	42.7	
13		7	58.30	149.57		44	45.4	− 57.3
14		10	27.63	149.33		43	39.3	66.1
15		12	56.71	149.08		42	24.3	75.0
16		15	25.52	148.81		41	0.5	83.8
17		17	54.08	148.56		39	27.9	92.6
				148.30				101.2
18	7	20	22.38		+23	37	46.7	
19		22	50.41	148.03		35	56.9	− 109.8
20		25	18.16	147.75		33	58.5	118.4
21		27	45.64	147.48		31	51.5	127.0
22		30	12.84	147.20		29	36.1	135.4
23		32	39.75	146.91		27	12.2	143.9
				146.62				152.3

10 月 27 日

0	7	35	6.37		+23	24	39.9	
1		37	32.69	146.32		21	59.3	− 160.6
2		39	58.71	146.02		19	10.5	168.8
3		42	24.43	145.72		16	13.4	177.1
4		44	49.85	145.42		13	8.2	185.2
5		47	14.97	145.12		9	54.9	193.3
				144.80				201.3
6	7	49	39.77		+23	6	33.6	
7		52	4.25	144.48		23	3	4.4 − 209.2
8		54	28.41	144.16		22	59	27.2 217.2
9		56	52.26	143.85			55	42.2 225.0
10	7	59	15.78	143.52			51	49.4 232.8
11	8	1	38.98	143.20			47	48.9 240.5
				142.87				248.1
12	8	4	1.85		+22	43	40.8	
13		6	24.38	142.53			39	25.1 − 255.7
14		8	46.57	142.19			35	1.9 263.2
15		11	8.43	141.86			30	31.2 270.7
16		13	29.96	141.53			25	53.1 278.1
17		15	51.15	141.19			21	7.7 285.4
				140.84				292.7
18	8	18	11.99		+22	16	15.0	
19		20	32.49	140.50		11	15.1	− 299.9
20		22	52.64	140.15		6	8.1	307.0
21		25	12.45	139.81		22	0	54.0 314.1
22		27	31.91	139.46		21	55	33.0 321.0
23		29	51.02	139.11			50	5.0 328.0
24	8	32	9.77	138.75	+21	44	30.2	− 334.8

10 月 28 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
0	8	32	9.77		+21	44	30.2	
1		34	28.17	138.40		38	48.6	− 341.6
2		36	46.22	138.05		33	0.2	348.4
3		39	3.92	137.70		27	5.2	355.0
4		41	21.26	137.34		21	3.6	361.6
5		43	38.25	136.99		14	55.4	368.2
				136.63				374.6
6	8	45	54.88		+21	8	40.8	
7		48	11.15	136.27		21	2	19.9 − 380.9
8		50	27.07	135.92		20	55	52.7 387.2
9		52	42.64	135.57			49	19.2 393.5
10		54	57.84	135.20			42	39.5 399.7
11		57	12.69	134.85			35	53.7 405.8
				134.49				411.8
12	8	59	27.18		+20	29	1.9	
13	9	1	41.32	134.14		22	4.1	− 417.8
14		3	55.10	133.78		15	0.4	423.7
15		6	8.52	133.42		7	50.8	429.6
16		8	21.59	133.07	20	0	35.4	435.4
17		10	34.30	132.71	19	53	14.3	441.1
				132.36				446.7
18	9	12	46.66		+19	45	47.6	
19		14	58.67	132.01		38	15.4	− 452.2
20		17	10.33	131.66		30	37.6	457.8
21		19	21.63	131.30		22	54.4	463.2
22		21	32.58	130.95		15	5.8	468.6
23		23	43.18	130.60	19	7	11.9	473.9
				130.26				479.0

10 月 29 日

0	9	25	53.44		+18	59	12.9	
1		28	3.35	129.91		51	8.6	− 484.3
2		30	12.91	129.56		42	59.2	489.4
3		32	22.13	129.22		34	44.8	494.4
4		34	31.01	128.88		26	25.4	499.4
5		36	39.54	128.53		18	1.1	504.3
				128.19				509.2
6	9	38	47.73		+18	9	31.9	
7		40	55.59	127.86		18	0	58.0 − 513.9
8		43	3.11	127.52		17	52	19.3 518.7
9		45	10.30	127.19			43	35.9 523.4
10		47	17.15	126.85			34	47.9 528.0
11		49	23.68	126.53			25	55.4 532.5
				126.20				536.9
12	9	51	29.88		+17	16	53.5	
13		53	35.75	125.87		17	7	57.2 − 541.3
14		55	41.30	125.55		16	53	51.5 545.7
15		57	46.53	125.23			49	41.5 550.0
16	9	59	51.44	124.91			40	27.3 554.2
17	10	1	56.03	124.59			31	8.9 558.4
				124.27				562.5
18	10	4	0.30		+16	21	46.4	
19		6	4.26	123.96		12	19.9	− 566.5
20		8	7.92	123.66	16	2	49.5	570.4
21		10	11.27	123.35	15	53	15.1	574.4
22		12	14.31	123.04		43	36.8	578.3
23		14	17.05	122.74		33	54.8	582.0
				122.44				585.8

10 月 30 日

0	10	16	19.49		+15	24	9.0	
1		18	21.64	122.15		14	19.5	− 589.5
2		20	23.49	121.85	15	4	26.4	593.1
3		22	25.05	121.56	14	54	29.8	596.6
4		24	26.31	121.26		44	29.6	600.2
5		26	27.29	120.98		34	26.0	603.6
				120.70				607.0
6	10	28	27.99		+14	24	19.0	
7		30	28.41	120.42		14	8.6	− 610.4
8		32	28.55	120.14	14	3	55.0	613.6
9		34	28.42	119.87	13	53	38.1	616.9
10		36	28.01	119.59		43	18.1	620.0
11		38	27.34	119.33		32	54.9	623.2
12	10	40	26.41	119.07	+13	22	28.7	− 626.2

10 月 30 日

世界時 h	赤經 h	m	s	s	赤緯 °	′	″	″
12	10	40	26.41		+13	22	28.7	
13		42	25.22	118.81		11	59.4	− 629.3
14		44	23.76	118.54	13	1	27.2	632.2
15		46	22.05	118.29	12	50	52.1	635.1
16		48	20.08	118.03		40	14.2	637.9
17		50	17.86	117.78		29	33.4	640.8
				117.54				643.5
18	10	52	15.40		+12	18	49.9	
19		54	12.70	117.30		12	8	3.7 − 646.2
20		56	9.75	117.05	11	57	14.9	648.8
21	10	58	6.57	116.82		46	23.5	651.4
22	11	0	3.15	116.58		35	29.6	653.9
23		1	59.50	116.35		24	33.1	656.5
				116.13				658.9

10 月 31 日

0	11	3	55.63		+11	13	34.2	
1		5	51.53	115.90		11	2	33.0 − 661.2
2		7	47.21	115.68		10	51	29.4 663.6
3		9	42.63	115.47			40	23.5 665.9
4		11	37.93	115.25			29	15.4 668.1
5		13	32.97	115.04			18	5.1 670.3
				114.84				672.5
6	11	15	27.81		+10	6	52.6	
7		17	22.45	114.64		9	55	33.0 − 674.6
8		19	16.88	114.43			44	21.5 676.5
9		21	11.12	114.24			33	2.9 678.6
10		23	5.16	114.04			21	42.4 680.5
11		24	59.01	113.85		9	10	20.0 682.4
				113.67				684.2
12	11	26	52.63		+	8	58	55.8
13		28	46.17	113.49			47	29.7 − 685.1
14		30	39.48	113.31			36	1.9 687.8
15		32	32.61	113.13			24	32.4 689.5
16		34	25.56	112.95			13	1.2 691.2
17		36	18.35	112.79		8	1	28.4 692.8
				112.63				694.3
18	11	38	10.98		+	7	49	54.1
19		40	3.44	112.46			38	18.2 − 695.9
20		41	55.74	112.30			26	40.8 697.4
21		43	47.89	112.15			15	2.0 698.8
22		45	39.88	111.99		7	3	21.8 700.2
23		47	31.72	111.84		6	51	40.3 701.5
				111.70				702.9

11 月 1 日

0	11	49	23.42		+	6	39	57.4
1		51	14.98	111.56			28	13.3 − 704.1
2		53	6.40	111.42			16	28.0 705.3
3		54	57.69	111.29		6	4	41.5 705.5
4		56	48.84	111.15		5	52	53.9 707.6
5	11	58	39.86	111.02			41	5.2 708.7
				110.90				709.7
6	12	0	30.76		+	5	29	15.5
7		2	21.54	110.78			17	24.8 − 710.7
8		4	12.20	110.66		5	5	33.2 711.6
9		6	2.75	110.55		4	53	40.7 712.5
10		7	53.19	110.44			41	47.3 713.4
11		9	43.53	110.34			29	53.1 714.2
				110.23				715.0
12	12	11	33.76		+	4	17	53.1
13		13	23.89	110.13		4	6	2.4 − 715.7
14		15	13.92	110.03		3	54	5.9 716.5
15		17	3.86	109.94			42	8.8 717.1
16		18	53.71	109.85			30	11.1 717.7
17		20	43.48	109.77			18	12.9 718.2
				109.68				718.8
18	12	22	33.16		+	3	6	14.1
19		24	22.77	109.61		2	54	14.8 − 719.3
20		26	12.30	109.53			42	15.1 719.7
21		28	1.75	109.45			30	15.0 720.1
22		29	51.13	109.38			18	14.6 720.4
23		31	40.45	109.32		2	6	13.9 720.7
24	12	33	29.70	109.25	+	1	54	12.9 − 721.0

11月2日

世界時	赤經		赤緯	
h	h m s	s	° ′ ″	″
0	12 33 29.70	109.20	+1 54 12.9	−721.2
1	35 18.90	109.14	42 11.7	721.4
2	37 8.04	109.08	30 10.3	721.6
3	38 57.12	109.04	18 8.7	721.7
4	40 46.16	109.00	1 6 7.0	721.8
5	42 35.16	108.96	0 54 5.2	721.8
6	12 44 24.12	108.91	+0 42 3.4	−721.7
7	46 13.03	108.87	30 1.7	721.7
8	48 1.90	108.84	18 0.0	721.7
9	49 50.74	108.81	+0 5 58.3	721.5
10	51 39.55	108.79	−0 6 3.2	721.2
11	53 28.34	108.77	18 4.4	721.0
12	12 55 17.11	108.74	−0 30 5.4	−720.8
13	57 5.85	108.72	42 6.2	720.5
14	12 58 54.57	108.72	0 54 6.7	720.1
15	13 0 43.29	108.71	1 6 6.8	719.7
16	2 32.00	108.70	18 6.5	719.3
17	4 20.70	108.70	30 5.8	718.9
18	13 6 9.40	108.70	−1 42 4.7	−718.4
19	7 58.10	108.70	1 54 3.1	717.9
20	9 46.80	108.71	2 6 1.0	717.2
21	11 35.51	108.72	17 58.2	716.6
22	13 24.23	108.73	29 54.8	716.0
23	15 12.96	108.74	41 50.8	715.2

11月3日

世界時	赤經		赤緯	
0	13 17 1.70	108.76	−2 53 46.0	−714.4
1	18 50.46	108.79	3 5 40.4	713.6
2	20 39.25	108.81	17 34.0	712.8
3	22 28.06	108.84	29 26.8	712.0
4	24 16.90	108.87	41 18.8	711.0
5	26 5.77	108.91	3 53 9.8	710.1
6	13 27 54.68	108.95	−4 4 59.9	−709.1
7	29 43.63	108.99	16 49.0	708.1
8	31 32.62	109.03	28 37.1	707.0
9	33 21.65	109.07	40 24.1	705.8
10	35 10.72	109.13	4 52 9.9	704.7
11	36 59.85	109.18	5 3 54.6	703.4
12	13 38 49.03	109.24	−5 15 38.0	−702.2
13	40 38.27	109.29	27 20.2	701.0
14	42 27.56	109.36	39 1.2	699.6
15	44 16.92	109.42	5 50 40.8	698.2
16	46 6.34	109.48	6 2 19.0	696.8
17	47 55.82	109.56	13 55.8	695.4
18	13 49 45.38	109.63	−6 25 31.2	−693.9
19	51 35.01	109.71	37 5.1	692.3
20	53 24.72	109.79	6 48 37.4	690.8
21	55 14.51	109.87	7 0 8.2	689.2
22	57 4.38	109.95	11 37.4	687.5
23	13 58 54.33	110.04	23 4.9	685.7

11月4日

世界時	赤經		赤緯	
0	14 0 44.37	110.13	−7 34 30.6	−684.0
1	2 34.50	110.23	45 54.6	682.2
2	4 24.73	110.32	7 57 16.8	680.4
3	6 15.05	110.42	8 8 37.2	678.6
4	8 5.47	110.53	19 55.8	676.6
5	9 56.00	110.62	31 12.4	674.6
6	14 11 46.62	110.73	−8 42 27.0	−672.7
7	13 37.35	110.85	8 53 39.7	670.6
8	15 28.20	110.96	9 4 50.3	668.6
9	17 19.16	111.07	15 58.9	666.4
10	19 10.23	111.19	27 5.3	664.2
11	21 1.42	111.30	38 9.5	−662.0
12	14 22 52.72	111.43	−9 49 11.5	−659.8
13	24 44.15	111.55	10 0 11.3	657.4
14	26 35.70	111.68	11 8.7	655.2
15	28 27.38	111.81	22 3.9	652.8
16	30 19.19	111.94	32 56.7	650.3
17	32 11.13	112.08	43 47.0	647.8
18	14 34 3.21	112.22	−10 54 34.8	−645.3
19	35 55.43	112.35	11 5 20.1	642.7
20	37 47.78	112.50	16 2.8	640.2
21	39 40.28	112.64	26 43.0	637.5
22	41 32.92	112.79	37 20.5	634.8
23	43 25.71	112.93	47 55.3	632.1

11月5日

世界時	赤經		赤緯	
0	14 45 18.64	113.08	−11 58 27.4	−629.3
1	47 11.72	113.24	12 8 56.7	626.5
2	49 4.96	113.40	19 23.2	623.7
3	50 58.36	113.55	29 46.9	620.7
4	52 51.91	113.72	40 7.6	617.7
5	54 45.63	113.88	12 50 25.4	614.7
6	14 56 39.51	114.04	−13 0 40.0	−611.7
7	14 58 33.55	114.21	10 51.7	608.6
8	15 0 27.76	114.37	21 0.3	605.5
9	2 22.13	114.54	31 5.8	602.3
10	4 16.67	114.71	41 8.1	599.1
11	6 11.38	114.89	13 51 7.2	595.8
12	15 8 6.27	115.07	−14 1 3.0	−592.5
13	10 1.34	115.24	10 55.5	589.1
14	11 56.58	115.42	20 44.6	585.7
15	13 52.00	115.60	30 30.3	582.3
16	15 47.60	115.78	40 12.6	578.8
17	17 43.38	115.96	49 51.4	575.3
18	15 19 39.34	116.16	−14 59 26.7	−571.6
19	21 35.50	116.34	15 8 58.3	568.0
20	23 31.84	116.53	18 26.3	564.4
21	25 28.37	116.72	27 50.7	560.6
22	27 25.09	116.92	37 11.3	556.9
23	29 22.01	117.11	46 28.2	553.1

11月6日

世界時	赤經		赤緯	
0	15 31 19.12	117.30	−15 55 41.3	−549.3
1	33 16.42	117.50	16 4 50.6	545.3
2	35 13.92	117.70	13 55.9	541.4
3	37 11.62	117.89	22 57.3	537.3
4	39 9.51	118.09	31 54.6	533.3
5	41 7.60	118.30	40 47.9	529.3
6	15 43 5.90	118.50	−16 49 37.2	−525.2
7	45 4.40	118.71	16 58 22.4	520.9
8	47 3.11	118.91	17 7 3.3	516.7
9	49 2.02	119.11	15 40.0	512.5
10	51 1.13	119.33	24 12.5	508.2
11	53 0.46	119.53	32 40.7	503.8
12	15 54 59.99	119.74	−17 41 4.5	−499.4
13	56 59.73	119.94	49 23.9	495.0
14	15 58 59.67	120.16	17 57 38.9	490.5
15	16 0 59.83	120.37	18 5 49.4	485.9
16	3 0.20	120.58	13 55.3	481.4
17	5 0.78	120.79	21 56.7	476.7
18	16 7 1.57	121.00	−18 29 53.4	−472.1
19	9 2.57	121.22	37 45.5	467.3
20	11 3.79	121.43	45 32.8	462.6
21	13 5.22	121.65	18 53 15.4	457.8
22	15 6.87	121.86	19 0 53.2	452.9
23	17 8.73	122.08	8 26.1	−448.0
24	16 19 10.81		−19 15 54.1	

11月7日

世界時	赤經		赤緯	
h	h m s	s	° ′ ″	″
0	16 19 10.81	122.29	−19 15 54.1	−443.1
1	21 13.10	122.51	23 17.2	438.1
2	23 15.61	122.72	30 35.3	433.1
3	25 18.33	122.93	37 48.4	428.0
4	27 21.26	123.15	44 56.4	422.9
5	29 24.41	123.37	51 59.3	417.7
6	16 31 27.78	123.58	−19 58 57.0	−412.5
7	33 31.36	123.80	20 5 49.5	407.3
8	35 35.16	124.01	12 36.8	402.0
9	37 39.17	124.22	19 18.8	396.6
10	39 43.39	124.44	25 55.4	391.3
11	41 47.83	124.66	32 26.7	385.8
12	16 43 52.49	124.87	−20 38 52.5	−380.4
13	45 57.36	125.08	45 12.9	374.8
14	48 2.44	125.29	51 27.7	369.4
15	50 7.73	125.51	20 57 37.1	363.7
16	52 13.24	125.71	21 3 40.8	358.1
17	54 18.95	125.93	9 38.9	352.4
18	16 56 24.88	126.14	−21 15 31.3	−346.7
19	16 58 31.02	126.35	21 18.0	341.0
20	17 0 37.37	126.55	26 59.0	335.1
21	2 43.92	126.76	32 34.1	329.3
22	4 50.68	126.97	38 3.4	323.5
23	6 57.65	127.17	43 26.9	317.5

11月8日

世界時	赤經		赤緯	
0	17 9 4.82	127.38	−21 48 44.4	−311.5
1	11 12.20	127.57	53 55.9	305.5
2	13 19.77	127.78	21 59 1.4	299.5
3	15 27.55	127.98	22 4 0.9	293.5
4	17 35.53	128.18	8 54.4	287.4
5	19 43.71	128.37	13 41.8	281.2
6	17 21 52.08	128.56	−22 18 23.0	−274.9
7	24 0.64	128.76	22 57.9	268.7
8	26 9.40	128.96	27 26.6	262.5
9	28 18.36	129.15	31 49.1	256.2
10	30 27.51	129.34	36 5.3	249.8
11	32 36.85	129.52	40 15.1	243.5
12	17 34 46.37	129.71	−22 44 18.6	−237.1
13	36 56.08	129.90	48 15.7	230.7
14	39 5.98	130.08	52 6.4	224.2
15	41 16.06	130.25	55 50.6	217.6
16	43 26.31	130.43	22 59 28.2	211.1
17	45 36.74	130.60	23 2 59.3	204.5
18	17 47 47.34	130.78	−23 6 23.8	−197.9
19	49 58.12	130.95	9 41.7	191.3
20	52 9.07	131.12	12 53.0	184.7
21	54 20.19	131.28	15 57.7	177.9
22	56 31.47	131.45	18 55.6	171.1
23	17 58 42.92	131.61	21 46.7	164.3

11月9日

世界時	赤經		赤緯	
0	18 0 54.53	131.77	−23 24 31.0	−157.6
1	3 6.30	131.93	27 8.6	150.8
2	5 18.23	132.08	29 39.4	143.9
3	7 30.31	132.24	32 3.3	137.0
4	9 42.55	132.39	34 20.3	130.1
5	11 54.94	132.52	36 30.4	123.2
6	18 14 7.46	132.67	−23 38 33.6	−116.3
7	16 20.13	132.81	40 29.9	109.2
8	18 32.94	132.95	42 19.1	102.2
9	20 45.89	133.08	44 1.3	95.2
10	22 58.97	133.22	45 36.5	88.1
11	25 12.19	133.35	47 4.6	−81.1
12	18 27 25.54	133.48	−23 48 25.7	−74.0
13	29 39.02	133.59	49 39.7	66.8
14	31 52.61	133.72	50 46.5	59.6
15	34 6.33	133.84	51 46.1	52.5
16	36 20.17	133.95	52 38.6	45.3
17	38 34.12	134.07	53 23.9	38.0
18	18 40 48.19	134.18	−23 54 1.9	−30.8
19	43 2.37	134.28	54 32.7	23.6
20	45 16.65	134.38	54 56.3	16.3
21	47 31.03	134.48	55 12.6	9.0
22	49 45.51	134.58	55 21.6	−1.7
23	52 0.09	134.67	55 23.3	+5.6

11月10日

世界時	赤經		赤緯	
0	18 54 14.76	134.76	−23 55 17.7	+12.9
1	56 29.52	134.85	55 4.8	20.3
2	18 58 44.37	134.93	54 44.5	27.7
3	19 0 59.30	135.02	54 16.8	35.0
4	3 14.32	135.09	53 41.8	42.4
5	5 29.41	135.17	52 59.4	49.8
6	19 7 44.58	135.24	−23 52 9.6	+57.2
7	9 59.82	135.30	51 12.4	64.6
8	12 15.12	135.37	50 7.8	72.0
9	14 30.49	135.43	48 55.8	79.5
10	16 45.92	135.49	47 36.3	87.0
11	19 1.41	135.55	46 9.3	94.4
12	19 21 16.96	135.60	−23 44 34.9	+101.9
13	23 32.56	135.65	42 53.0	109.3
14	25 48.21	135.69	41 3.7	116.8
15	28 3.90	135.74	39 6.9	124.2
16	30 19.64	135.78	37 2.7	131.7
17	32 35.42	135.81	34 51.0	139.2
18	19 34 51.23	135.85	−23 32 31.8	+146.7
19	37 7.08	135.88	30 5.1	154.2
20	39 22.96	135.91	27 30.9	161.7
21	41 38.87	135.93	24 49.2	169.2
22	43 54.80	135.95	22 0.0	176.6
23	46 10.75	135.97	19 3.4	184.0

11月11日

世界時	赤經		赤緯	
0	19 48 26.72	135.99	−23 15 59.4	+191.5
1	50 42.71	136.00	12 47.9	199.1
2	52 58.71	136.01	9 28.8	206.6
3	55 14.72	136.02	6 2.2	214.0
4	57 30.74	136.02	23 2 28.2	221.5
5	19 59 46.76	136.02	22 58 46.7	228.9
6	20 2 2.78	136.02	−22 54 57.8	+236.4
7	4 18.80	136.02	51 1.4	243.8
8	6 34.82	136.01	46 57.6	251.3
9	8 50.83	136.00	42 46.3	258.7
10	11 6.83	135.99	38 27.6	266.1
11	13 22.82	135.98	34 1.5	273.5
12	20 15 38.80	135.96	−22 29 28.0	+281.0
13	17 54.76	135.94	24 47.0	288.3
14	20 10.70	135.92	19 58.7	295.7
15	22 26.62	135.90	15 3.0	303.0
16	24 42.52	135.87	10 0.0	310.4
17	26 58.39	135.85	22 4 49.6	317.7
18	20 29 14.24	135.82	−21 59 31.9	+325.0
19	31 30.06	135.78	54 6.9	332.3
20	33 45.84	135.74	48 34.6	339.6
21	36 1.58	135.71	42 55.0	346.9
22	38 17.29	135.68	37 8.1	354.2
23	40 32.97	135.64	31 13.9	+361.4
24	20 42 48.61		−21 25 12.5	

世界時	赤經			赤緯			
	11 月 12 日						
h	h	m	s	s	°	′	″	″
0	20	42	48.61	135.60	−21	25	12.5	
1		45	4.21			19	4.0	+368.5
2		47	19.76	135.55		12	48.3	375.7
3		49	35.27	135.51	21	6	25.3	383.0
4		51	50.73	135.46	20	59	55.2	390.1
5		54	6.14	135.41		53	18.0	397.2
				135.36				404.3
6	20	56	21.50		−20	46	33.7	
7	20	58	36.81	135.31		39	42.3	+411.4
8	21	0	52.07	135.26		32	43.8	418.5
9		3	7.28	135.21		25	38.3	425.5
10		5	22.43	135.15		18	25.9	432.4
11		7	37.53	135.10		11	6.4	439.5
				135.04				446.4
12	21	9	52.57		−20	3	40.0	
13		12	7.56	134.99	19	56	6.7	+453.3
14		14	22.48	134.92		48	26.4	460.3
15		16	37.35	134.87		40	39.2	467.2
16		18	52.15	134.80		32	45.2	474.0
17		21	6.90	134.75		24	44.4	480.8
				134.68				487.6
18	21	23	21.58		−19	16	36.8	
19		25	36.20	134.62		8	22.5	+494.3
20		27	50.75	134.55	19	0	1.4	501.1
21		30	5.25	134.50	18	51	33.6	507.8
22		32	19.68	134.43		42	59.2	514.4
23		34	34.04	134.36		34	18.2	521.0
				134.30				527.6
	11 月 13 日							
0	21	36	48.34		−18	25	30.6	
1		39	2.58	134.24		16	36.4	+534.2
2		41	16.75	134.17	18	7	35.7	540.7
3		43	30.86	134.11	17	58	28.5	547.2
4		45	44.90	134.04		49	14.9	553.6
5		47	58.88	133.98		39	54.9	560.0
				133.91				566.4
6	21	50	12.79		−17	30	28.5	
7		52	26.64	133.85		20	55.8	+572.7
8		54	40.43	133.79		11	16.8	579.0
9		56	54.15	133.72	17	1	31.5	585.3
10	21	59	7.81	133.66	16	51	40.0	591.5
11	22	1	21.42	133.61		41	42.4	597.6
				133.54				603.8
12	22	3	34.96		−16	31	38.6	
13		5	48.44	133.48		21	28.7	+609.9
14		8	1.86	133.42		11	12.8	615.9
15		10	15.22	133.36	16	0	50.9	621.9
16		12	28.52	133.30	15	50	23.0	627.9
17		14	41.77	133.25		39	49.2	633.8
				133.19				639.7
18	22	16	54.96		−15	29	9.5	
19		19	8.09	133.13		18	24.0	+645.5
20		21	21.17	133.08	15	7	32.8	651.2
21		23	34.20	133.03	14	56	35.9	656.9
22		25	47.17	132.97		45	33.2	662.7
23		28	0.09	132.92		34	24.8	668.4
				132.88				673.9
	11 月 14 日							
0	22	30	12.97		−14	23	10.9	
1		32	25.80	132.83		11	51.5	+679.4
2		34	38.58	132.78	14	0	26.6	684.9
3		36	51.32	132.74	13	48	56.2	690.4
4		39	4.01	132.69		37	20.4	695.8
5		41	16.66	132.65		25	39.3	701.1
				132.62				706.3
6	22	43	29.28		−13	13	53.0	
7		45	41.86	132.58		13	2	1.4	+711.6
8		47	54.40	132.54	12	50	4.7	716.7
9		50	6.91	132.51		38	2.9	721.8
10		52	19.38	132.47		25	56.0	726.9
11		54	31.83	132.45		13	44.1	731.9
12	22	56	44.25	132.42	−12	1	27.2	+736.9

世界時	赤經			赤緯			
	11 月 14 日						
h	h	m	s	s	°	′	″	″
12	22	56	44.25	132.40	−12	1	27.2	
13	22	58	56.65	132.37	11	49	5.4	+741.8
14	23	1	9.02	132.35		36	38.9	746.5
15		3	21.37	132.33		24	7.5	751.4
16		5	33.70	132.32	11	11	31.4	756.1
17		7	46.02	132.30	10	58	50.6	760.8
				132.28				765.3
18	23	9	58.32		−10	46	5.3	
19		12	10.62	132.30		33	15.4	+769.9
20		14	22.91	132.29		20	21.1	774.3
21		16	35.19	132.28	10	7	22.3	778.8
22		18	47.46	132.27	9	54	19.2	783.1
23		20	59.74	132.28		41	11.8	787.4
				132.28				791.6
	11 月 15 日							
0	23	23	12.02		−	9	28	0.2	
1		25	24.31	132.29			14	44.5	+795.7
2		27	36.59	132.28		9	1	24.6	799.9
3		29	48.89	132.30		8	48	0.7	803.9
4		32	1.21	132.32			34	32.9	807.8
5		34	13.54	132.33			21	1.2	811.7
				132.35					815.6
6	23	36	25.89		−	8	7	25.6	
7		38	38.26	132.37		7	53	46.3	+819.3
8		40	50.66	132.40			40	3.4	822.9
9		43	3.08	132.42			26	16.9	826.5
10		45	15.54	132.46		7	12	26.8	830.1
11		47	28.04	132.50		6	58	33.2	833.6
				132.53					836.9
12	23	49	40.57		−	6	44	36.3	
13		51	53.15	132.58			30	36.1	+840.2
14		54	5.76	132.61			16	32.7	843.4
15		56	18.42	132.66		6	2	26.1	846.6
16	23	58	31.14	132.72		5	48	16.4	849.7
17	0	0	43.91	132.77			34	3.6	852.8
				132.83					855.7
18	0	2	56.74		−	5	19	47.9	
19		5	9.64	132.90		5	5	29.4	+858.5
20		7	22.59	132.95		4	51	8.1	861.3
21		9	35.61	133.02			36	44.1	864.0
22		11	48.70	133.09			22	17.5	866.6
23		14	1.87	133.17		4	7	48.4	869.1
				133.24					871.5
	11 月 16 日							
0	0	16	15.11		−	3	53	16.9	
1		18	28.44	133.33			38	43.0	+873.9
2		20	41.85	133.41			24	6.8	876.2
3		22	55.35	133.50		3	9	28.4	878.4
4		25	8.95	133.60		2	54	47.9	880.5
5		27	22.64	133.69			40	5.4	882.5
				133.79					884.5
6	0	29	36.43		−	2	25	20.9	
7		31	50.33	133.90		2	10	34.6	+886.3
8		34	4.33	134.00		1	55	46.5	888.1
9		36	18.45	134.12			40	56.8	889.7
10		38	32.68	134.23			26	5.5	891.3
11		40	47.03	134.35		1	11	12.7	892.8
				134.47					894.2
12	0	43	1.50		−	0	56	18.5	
13		45	16.10	134.60			41	23.0	+895.5
14		47	30.82	134.72			26	26.4	896.6
15		49	45.68	134.86	−	0	11	28.6	897.8
16		52	0.67	134.99	+	0	3	30.2	898.8
17		54	15.80	135.13			18	30.0	899.8
				135.27					900.6
18	0	56	31.07		+	0	33	30.6	
19	0	58	46.50	135.43		0	48	31.9	+901.3
20	1	1	2.08	135.58		1	3	33.7	901.8
21		3	17.81	135.73			18	36.1	902.4
22		5	33.70	135.89			33	39.0	902.9
23		7	49.76	136.06		1	48	42.2	903.2
24	1	10	5.97	136.21	+	2	3	45.6	+903.4

世界時	赤經			赤緯			
	11 月 17 日						
h	h	m	s	s	°	′	″	″
0	1	10	5.97	136.38	+	2	3	45.6	
1		12	22.35				18	49.2	+903.6
2		14	38.91	136.56			33	52.7	903.5
3		16	55.65	136.74		2	48	56.2	903.5
4		19	12.57	136.92		3	3	59.5	903.3
5		21	29.67	137.10			19	2.5	903.0
				137.28					902.5
6	1	23	46.95		+	3	34	5.0	
7		26	4.43	137.48		3	49	7.1	+902.1
8		28	22.10	137.67		4	4	8.6	901.5
9		30	39.97	137.87			19	9.3	900.7
10		32	58.03	138.06			34	9.2	899.9
11		35	16.30	138.27		4	49	8.2	899.0
				138.47					897.9
12	1	37	34.77		+	5	4	6.1	
13		39	53.46	138.69			19	2.9	+896.8
14		42	12.36	138.90			33	58.4	895.5
15		44	31.48	139.12		5	48	52.5	894.1
16		46	50.81	139.33		6	3	45.1	892.6
17		49	10.36	139.55			18	36.1	891.0
				139.78					889.3
18	1	51	30.14		+	6	33	25.4	
19		53	50.15	140.01		6	48	12.8	+887.4
20		56	10.40	140.25		7	2	58.3	885.5
21	1	58	30.88	140.48			17	41.7	883.4
22	2	0	51.59	140.71			32	23.0	881.3
23		3	12.54	140.95		7	47	2.0	879.0
				141.20					876.5
	11 月 18 日							
0	2	5	33.74		+	8	1	38.5	
1		7	55.18	141.44			16	12.5	+874.0
2		10	16.87	141.69			30	43.9	871.4
3		12	38.81	141.94			45	12.5	868.6
4		15	1.00	142.19		8	59	33.3	865.8
5		17	23.45	142.45		9	14	1.1	862.8
				142.70					859.7
6	2	19	46.15		+	9	28	20.8	
7		22	9.12	142.97			42	37.2	+856.4
8		24	32.34	143.22		9	56	50.2	853.0
9		26	55.83	143.49		10	10	59.8	849.6
10		29	19.58	143.75			25	5.8	846.0
11		31	43.59	144.01			39	8.1	842.3
				144.28					838.5
12	2	34	7.87		+	10	53	6.6	
13		36	32.42	144.55		11	7	1.1	+834.5
14		38	57.25	144.83			20	51.6	830.5
15		41	22.35	145.10			34	37.9	826.3
16		43	47.72	145.37		11	48	19.9	822.0
17		46	13.37	145.65		12	1	57.5	817.6
				145.92					813.0
18	2	48	39.29		+	12	15	30.5	
19		51	5.49	146.20			28	58.8	+808.3
20		53	31.96	146.47			42	22.4	803.6
21		55	58.71	146.75		12	55	41.1	798.7
22	2	58	25.74	147.03		13	8	54.7	793.6
23	3	0	53.05	147.31			22	3.2	788.5
				147.59					783.3
	11 月 19 日							
0	3	3	20.64		+	13	35	6.5	
1		5	48.51	147.87		13	48	4.4	+777.9
2		8	16.66	148.15		14	0	56.9	772.5
3		10	45.09	148.43			13	43.8	766.9
4		13	13.79	148.70			26	24.9	761.1
5		15	42.78	148.99			39	0.1	755.2
				149.27					749.3
6	3	18	12.05		+	14	51	29.4	
7		20	41.59	149.54		15	3	52.6	+743.2
8		23	11.40	149.81			16	9.7	737.1
9		25	41.50	150.10			28	20.5	730.8
10		28	11.87	150.37			40	24.9	724.4
11		30	42.51	150.64		15	52	22.8	717.9
12	3	33	13.43	150.92	+	16	4	14.1	+711.3

世界時	赤經			赤緯			
	11 月 19 日						
h	h	m	s	s	°	′	″	″
12	3	33	13.43	151.18	+	16	4	14.1	
13		35	44.61				15	58.6	+704.5
14		38	16.07	151.46			27	36.3	697.7
15		40	47.80	151.73			39	7.0	690.7
16		43	19.79	151.99		16	50	30.7	683.7
17		45	52.04	152.25		17	1	47.2	676.5
				152.51					669.2
18	3	48	24.55		+	17	12	56.4	
19		50	57.32	152.77			23	58.2	+661.8
20		53	30.34	153.02			34	52.6	654.4
21		56	3.61	153.27			45	39.4	646.8
22	3	58	37.14	153.53		17	56	18.5	639.1
23	4	1	10.92	153.78		18	6	49.8	631.3
				154.02					623.5
	11 月 20 日							
0	4	3	44.94		+	18	17	13.3	
1		6	19.19	154.25			27	28.8	+615.5
2		8	53.68	154.49			37	36.2	607.4
3		11	28.41	154.73			47	35.5	599.3
4		14	3.36	154.95		18	57	26.5	591.0
5		16	38.53	155.17		19	7	9.2	582.7
				155.39					574.3
6	4	19	13.92		+	19	16	43.5	
7		21	49.53	155.61			26	9.2	+565.7
8		24	25.35	155.82			35	26.3	557.1
9		27	1.38	156.03			44	34.8	548.5
10		29	37.60	156.22		19	53	34.6	539.8
11		32	14.02	156.42		20	2	25.4	530.8
				156.62					521.8
12	4	34	50.64		+	20	11	7.2	
13		37	27.44	156.80			19	40.1	+512.9
14		40	4.42	156.98			28	3.9	503.8
15		42	41.57	157.15			36	18.6	494.7
16		45	18.89	157.32			44	24.0	485.4
17		47	56.37	157.48		20	52	20.2	476.2
				157.64					466.8
18	4	50	34.01		+	21	0	7.0	
19		53	11.80	157.79			7	44.3	+457.3
20		55	49.72	157.92			15	12.2	447.9
21	4	58	27.78	158.06			22	30.6	438.4
22	5	1	5.98	158.20			29	39.4	428.8
23		3	44.30	158.32			36	38.5	419.1
				158.43					409.4
	11 月 21 日							
0	5	6	22.73		+	21	43	27.9	
1		9	1.27	158.54			50	7.6	+399.7
2		11	39.92	158.65		21	56	37.4	389.8
3		14	18.66	158.74		22	2	57.3	379.9
4		16	57.49	158.83			9	7.4	370.1
5		19	36.39	158.90			15	7.6	360.2
				158.98					350.1
6	5	22	15.37		+	22	20	57.7	
7		24	54.41	159.04			26	37.8	+340.1
8		27	33.50	159.09			32	7.9	330.1
9		30	12.64	159.14			37	27.9	320.0
10		32	51.82	159.18			42	37.8	309.9
11		35	31.04	159.22			47	37.5	299.7
				159.24					289.5
12	5	38	10.28		+	22	52	27.0	
13		40	49.54	159.26		22	57	6.4	+279.4
14		43	28.80	159.26		23	1	35.5	269.1
15		46	8.06	159.26			5	54.3	258.8
16		48	47.32	159.26			10	2.9	248.6
17		51	26.56	159.24			14	1.3	238.4
				159.21					228.1
18	5	54	5.77		+	23	17	49.4	
19		56	44.95	159.18			21	27.2	+217.8
20	5	59	24.09	159.14			24	54.7	207.5
21	6	2	3.17	159.08			28	11.9	197.2
22		4	42.19	159.02			31	18.9	187.0
23		7	21.15	158.96			34	15.6	176.7
24	6	10	0.03	158.88		23	37	1.9	+166.3

世界時	赤経				赤緯			
	11月22日							
h	h	m	s	s	°	′	″	″
0	6	10	0.03	158.80	+23	37	1.9	+156.0
1		12	38.83	158.71		39	37.9	145.8
2		15	17.54	158.60		42	3.7	135.5
3		17	56.14	158.49		44	19.2	125.3
4		20	34.63	158.37		46	24.5	115.0
5		23	13.00	158.24		48	19.5	104.8
6	6	25	51.24	158.11	+23	50	4.3	+ 94.6
7		28	29.35	157.97		51	38.9	84.4
8		31	7.32	157.82		53	3.3	74.3
9		33	45.14	157.66		54	17.6	64.2
10		36	22.80	157.49		55	21.8	54.0
11		39	0.29	157.31		56	15.8	43.9
12	6	41	37.60	157.13	+23	56	59.7	+ 33.9
13		44	14.73	156.93		57	33.6	23.9
14		46	51.66	156.74		57	57.5	14.0
15		49	28.40	156.53		58	11.5	+ 3.9
16		52	4.93	156.32		58	15.4	− 6.0
17		54	41.25	156.09		58	9.4	15.8
18	6	57	17.34	155.87	+23	57	53.6	− 25.6
19	6	59	53.21	155.63		57	28.0	35.3
20	7	2	28.84	155.39		56	52.7	45.1
21		5	4.23	155.13		56	7.6	54.7
22		7	39.36	154.87		55	12.9	64.4
23		10	14.23	154.61		54	8.5	73.9
	11月23日							
0	7	12	48.84	154.34	+23	52	54.6	− 83.4
1		15	23.18	154.06		51	31.2	92.9
2		17	57.24	153.78		49	58.3	102.3
3		20	31.02	153.48		48	16.0	111.7
4		23	4.50	153.19		46	24.3	121.0
5		25	37.69	152.88		44	23.3	130.2
6	7	28	10.57	152.58	+23	42	13.1	− 139.3
7		30	43.15	152.26		39	53.8	148.3
8		33	15.41	151.94		37	25.5	157.4
9		35	47.35	151.62		34	48.1	166.4
10		38	18.97	151.29		32	1.7	175.3
11		40	50.26	150.94		29	6.4	184.2
12	7	43	21.20	150.61	+23	26	2.2	− 192.9
13		45	51.81	150.26		22	49.3	201.6
14		48	22.07	149.91		19	27.7	210.2
15		50	51.98	149.56		15	57.5	218.8
16		53	21.54	149.20		12	18.7	227.3
17		55	50.74	148.83		8	31.4	235.6
18	7	58	19.57	148.47	+23	4	35.8	− 244.0
19	8	0	48.04	148.10	23	0	31.8	252.2
20		3	16.14	147.73	22	56	19.6	260.4
21		5	43.87	147.35		51	59.2	268.5
22		8	11.22	146.97		47	30.7	276.6
23		10	38.19	146.58		42	54.1	284.5
	11月24日							
0	8	13	4.77	146.20	+22	38	9.6	− 292.4
1		15	30.97	145.80		33	17.2	300.1
2		17	56.77	145.41		28	17.1	307.9
3		20	22.18	145.01		23	9.2	315.5
4		22	47.19	144.62		17	53.7	323.1
5		25	11.81	144.21		12	30.6	330.5
6	8	27	36.02	143.82	+22	7	0.1	− 337.9
7		29	59.84	143.41		22	1	22.2	345.3
8		32	23.25	143.01		21	55	36.9	352.5
9		34	46.26	142.60			49	44.4	359.6
10		37	8.86	142.20			43	44.8	366.7
11		39	31.06	141.78			37	38.1	373.6
12	8	41	52.84		+21	31	24.5	

世界時	赤経				赤緯			
	11月24日							
h	h	m	s	s	°	′	″	″
12	8	41	52.84	141.37	+21	31	24.5	− 380.5
13		44	14.21	140.96		25	4.0	387.4
14		46	35.17	140.55		18	36.6	394.2
15		48	55.72	140.13		12	2.4	400.8
16		51	15.85	139.72	21	5	21.6	407.4
17		53	35.57	139.30	20	58	34.2	413.8
18	8	55	54.87	138.89	+20	51	40.4	− 420.3
19	8	58	13.76	138.47		44	40.1	426.6
20	9	0	32.23	138.06		37	33.5	432.9
21		2	50.29	137.64		30	20.6	439.0
22		5	7.93	137.23		23	1.6	445.1
23		7	25.16	136.82		15	36.5	451.2
	11月25日							
0	9	9	41.98	136.40	+20	8	5.3	
1		11	58.38	135.99	20	0	28.1	− 457.2
2		14	14.37	135.58	19	52	45.1	463.0
3		16	29.95	135.16		44	56.4	468.7
4		18	45.11	134.75		37	2.1	474.3
5		20	59.86	134.34		29	2.1	480.0
6	9	23	14.20	133.94	+19	20	56.6	485.5
7		25	28.14	133.53		12	45.6	− 491.0
8		27	41.67	133.13	19	4	29.2	496.4
9		29	54.80	132.72	18	56	7.5	501.7
10		32	7.52	132.32		47	40.6	506.9
11		34	19.84	131.91		39	8.5	512.1
12	9	36	31.75	131.52	+18	30	31.3	517.2
13		38	43.27	131.12		21	49.2	− 522.1
14		40	54.39	130.72		13	2.2	527.0
15		43	5.11	130.33	18	4	10.3	531.9
16		45	15.44	129.94	17	55	13.6	536.7
17		47	25.38	129.55		46	12.2	541.4
18	9	49	34.93	129.17	+17	37	6.2	546.0
19		51	44.10	128.78		27	55.6	− 550.6
20		53	52.88	128.40		18	40.6	555.0
21		56	1.28	128.02	17	9	21.2	559.4
22	9	58	9.30	127.65	16	59	57.4	563.8
23	10	0	16.95	127.27		50	29.3	568.1
	11月26日							572.2
0	10	2	24.22	126.90	+16	40	57.1	
1		4	31.12	126.53		31	20.8	− 576.3
2		6	37.65	126.17		21	40.4	580.4
3		8	43.82	125.80		11	56.0	584.4
4		10	49.62	125.45	16	2	7.6	588.4
5		12	55.07	125.09	15	52	15.4	592.2
6	10	15	0.16	124.73	+15	42	19.5	595.9
7		17	4.89	124.38		32	19.8	− 599.7
8		19	9.27	124.03		22	16.5	603.3
9		21	13.30	123.69		12	9.6	606.9
10		23	16.99	123.35	15	1	59.2	610.4
11		25	20.34	123.02	14	51	45.3	613.9
12	10	27	23.36	122.68	+14	41	28.1	617.2
13		29	26.04	122.35		31	7.5	− 620.6
14		31	28.39	122.02		20	43.7	623.8
15		33	30.41	121.70	14	10	16.6	627.1
16		35	32.11	121.38	13	59	46.4	630.2
17		37	33.49	121.06		49	13.1	633.3
18	10	39	34.55	120.75	+13	38	36.7	636.4
19		41	35.30	120.44		27	57.4	− 639.3
20		43	35.74	120.13		17	15.2	642.2
21		45	35.87	119.83	13	6	30.2	645.0
22		47	35.70	119.54	12	55	42.4	647.8
23		49	35.24	119.24		44	51.8	650.6
24	10	51	34.48		+12	33	58.6	− 653.2

世界時	赤経				赤緯			
	11月27日							
h	h	m	s	s	°	′	″	″
0	10	51	34.48	118.95	+12	33	58.6	− 655.8
1		53	33.43	118.66		23	2.8	658.4
2		55	32.09	118.38		12	4.4	660.9
3		57	30.47	118.10	12	1	3.5	663.3
4	10	59	28.57	117.83	11	50	0.2	665.7
5	11	1	26.40	117.55		38	54.5	668.1
6	11	3	23.95	117.29	+11	27	46.4	− 670.4
7		5	21.24	117.02		16	36.0	672.6
8		7	18.26	116.77	11	5	23.4	674.8
9		9	15.03	116.50	10	54	8.6	676.9
10		11	11.53	116.25		42	51.7	679.0
11		13	7.78	116.01		31	32.7	680.9
12	11	15	3.79	115.76	+10	20	11.8	− 683.0
13		16	59.55	115.52		10	8	48.8	684.9
14		18	55.07	115.29		9	57	23.9	686.8
15		20	50.36	115.05			45	57.1	688.6
16		22	45.41	114.83			34	28.5	690.4
17		24	40.24	114.60			22	58.1	692.1
18	11	26	34.84	114.38	+	9	11	26.0	− 693.8
19		28	29.22	114.16		8	59	52.2	695.4
20		30	23.38	113.95			48	16.8	697.0
21		32	17.33	113.75			36	39.8	698.6
22		34	11.08	113.54			25	1.2	700.0
23		36	4.62	113.34			13	21.2	701.4
	11月28日							
0	11	37	57.96	113.14	+	8	1	39.8	− 702.9
1		39	51.10	112.95		7	49	56.9	704.2
2		41	44.05	112.76			38	12.7	705.5
3		43	36.81	112.58			26	27.2	706.8
4		45	29.39	112.41			14	40.4	708.0
5		47	21.80	112.22		7	2	52.4	709.2
6	11	49	14.02	112.05	+	6	51	3.2	− 710.3
7		51	6.07	111.89			39	12.9	711.3
8		52	57.96	111.72			27	21.6	712.4
9		54	49.68	111.56			15	29.2	713.4
10		56	41.24	111.41		6	3	35.8	714.4
11	11	58	32.65	111.25		5	51	41.4	715.2
12	12	0	23.90	111.11	+	5	39	46.2	− 716.1
13		2	15.01	110.96			27	50.1	717.0
14		4	5.97	110.82			15	53.1	717.8
15		5	56.79	110.69		5	3	55.3	718.5
16		7	47.48	110.56		4	51	56.8	719.3
17		9	38.04	110.43			39	57.5	719.9
18	12	11	28.47	110.31	+	4	27	57.6	− 720.5
19		13	18.78	110.18			15	57.1	721.1
20		15	8.96	110.07		4	3	56.0	721.6
21		16	59.03	109.95		3	51	54.4	722.2
22		18	48.98	109.85			39	52.2	722.6
23		20	38.83	109.74			27	49.6	723.0
	11月29日							
0	12	22	28.57	109.64	+	3	15	46.6	− 723.4
1		24	18.21	109.55		3	3	43.2	723.8
2		26	7.76	109.46		2	51	39.4	724.0
3		27	57.22	109.37			39	35.4	724.3
4		29	46.59	109.28			27	31.1	724.6
5		31	35.87	109.20			15	26.5	724.7
6	12	33	25.07	109.13	+	2	3	21.8	− 724.9
7		35	14.10	109.06		1	51	16.9	725.0
8		37	3.26	108.98			39	11.9	725.0
9		38	52.24	108.92			27	6.9	725.0
10		40	41.16	108.86			15	1.9	725.0
11		42	30.02	108.80		1	2	56.8	725.1
12	12	44	18.82		+	0	50	51.8	− 725.0

世界時	赤経				赤緯			
	11月29日							
h	h	m	s	s	°	′	″	″
12	12	44	18.82	108.75	+	0	50	51.8	− 724.9
13		46	7.57	108.70			38	46.9	724.8
14		47	56.27	108.65			26	42.1	724.6
15		49	44.92	108.61			14	37.5	724.5
16		51	33.53	108.57	+	0	2	33.0	724.2
17		53	22.10	108.53	−	0	9	31.2	724.0
18	12	55	10.63	108.51	−	0	21	35.2	− 723.7
19		56	59.14	108.48			33	38.9	723.2
20	12	58	47.62	108.46			45	42.1	722.9
21	13	0	36.08	108.43		0	57	45.0	722.5
22		2	24.51	108.42		1	9	47.5	722.1
23		4	12.93	108.40			21	49.6	721.5
	11月30日							
0	13	6	1.33	108.40	−	1	33	51.1	− 720.9
1		7	49.73	108.39			45	52.0	720.3
2		9	38.12	108.39		1	57	52.3	719.8
3		11	26.51	108.40		2	9	52.1	719.1
4		13	14.91	108.40			21	51.2	718.5
5		15	3.31	108.40			33	49.7	717.7
6	13	16	51.71	108.42	−	2	45	47.4	− 717.0
7		18	40.13	108.44		2	57	44.4	716.1
8		20	28.57	108.46		3	9	40.5	715.3
9		22	17.03	108.48			21	35.8	714.5
10		24	5.51	108.51			33	30.3	713.6
11		25	54.02	108.54			45	23.9	712.5
12	13	27	42.56	108.57	−	3	57	16.4	− 711.6
13		29	31.13	108.61		4	9	8.0	710.6
14		31	19.74	108.65			20	58.6	709.5
15		33	8.39	108.70			32	48.1	708.3
16		34	57.09	108.75			44	36.4	707.2
17		36	45.84	108.80		4	56	23.6	706.1
18	13	38	34.64	108.85	−	5	8	9.7	− 704.8
19		40	23.49	108.91			19	54.5	703.6
20		42	12.40	108.98			31	38.1	702.3
21		44	1.38	109.03			43	20.4	700.9
22		45	50.41	109.10		5	55	1.3	699.6
23		47	39.51	109.18		6	6	40.9	698.1
	12月1日							
0	13	49	28.69	109.25	−	6	18	19.0	− 696.7
1		51	17.94	109.33			29	55.7	695.2
2		53	7.27	109.41			41	30.9	693.7
3		54	56.68	109.49		6	53	4.6	692.1
4		56	46.17	109.58		7	4	36.7	690.4
5	13	58	35.75	109.68			16	7 1	688.8
6	14	0	25.43	109.77	−	7	27	35.9	− 687.1
7		2	15.20	109.86			39	3.0	685.4
8		4	5.06	109.97		7	50	28.4	683.6
9		5	55.03	110.06		8	1	52.0	681.8
10		7	45.09	110.17			13	13.8	680.0
11		9	35.26	110.29			24	33.8	678.0
12	14	11	25.55	110.40	−	8	35	51.8	− 676.1
13		13	15.95	110.52			47	7.9	674.1
14		15	6.47	110.63		8	58	22.0	672.2
15		16	57.10	110.75		9	9	34.2	670.1
16		18	47.85	110.88			20	44.3	668.0
17		20	38.73	111.00			31	52.3	665.8
18	14	22	29.73	111.13	−	9	42	58.1	− 663.7
19		24	20.86	111.27			9	54	1.8	661.4
20		26	12.13	111.40		10	5	3.2	659.2
21		28	3.53	111.54			16	2.4	656.8
22		29	55.07	111.69			26	59.2	654.5
23		31	46.76	111.83			37	53.7	652.1
24	14	33	38.59		−	10	48	45.8	

12月2日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″	″
0	14	33	38.59	111.98	−10	48	45.8	−649.7
1		35	30.57	112.12		10	59 35.5	647.2
2		37	22.69	112.28		11	10 22.7	644.7
3		39	14.97	112.43			21 7.4	642.1
4		41	7.40	112.59			31 49.5	639.5
5		42	59.99	112.75			42 29.0	636.8
6	14	44	52.74	112.92	−11	53	5.8	−634.1
7		46	45.66	113.07	12	3	39.9	631.4
8		48	38.73	113.24			14 11.3	628.6
9		50	31.97	113.41			24 39.9	625.8
10		52	25.38	113.59			35 5.7	623.0
11		54	18.97	113.76			45 28.7	620.0
12	14	56	12.73	113.94	−12	55	48.7	−617.0
13	14	58	6.67	114.12	13	6	5.7	614.0
14	15	0	0.79	114.30			16 19.7	611.0
15		1	55.09	114.48			26 30.7	607.9
16		3	49.57	114.67			36 38.6	604.7
17		5	44.24	114.86			46 43.3	601.5
18	15	7	39.10	115.05	−13	56	44.8	−598.3
19		9	34.15	115.24	14	6	43.1	595.0
20		11	29.39	115.43			16 38.1	591.7
21		13	24.82	115.63			26 29.8	588.3
22		15	20.45	115.83			36 18.1	584.9
23		17	16.28	116.03			46 3.0	581.5

12月3日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″	″
0	15	19	12.31	116.23	−14	55	44.5	−577.9
1		21	8.54	116.44	15	5	22.4	574.3
2		23	4.98	116.64		14	56.7	570.8
3		25	1.62	116.84		24	27.5	567.1
4		26	58.46	117.05		33	54.6	563.4
5		28	55.51	117.27		43	18.0	559.7
6	15	30	52.78	117.48	−15	52	37.7	−555.9
7		32	50.26	117.70	16	1	53.6	552.0
8		34	47.96	117.90		11	5.6	548.1
9		36	45.86	118.12		20	13.7	544.2
10		38	43.98	118.34		29	17.9	540.2
11		40	42.32	118.56		38	18.1	536.2
12	15	42	40.88	118.78	−16	47	14.3	−532.2
13		44	39.66	119.00	16	56	6.5	528.0
14		46	38.66	119.23	17	4	54.5	523.7
15		48	37.89	119.45		13	38.2	519.5
16		50	37.34	119.67		22	17.7	515.3
17		52	37.01	119.89		30	53.0	511.0
18	15	54	36.90	120.13	−17	39	24.0	−506.6
19		56	37.03	120.35		47	50.6	502.2
20	15	58	37.38	120.58	17	56	12.8	497.7
21	16	0	37.96	120.81	18	4	30.5	493.2
22		2	38.77	121.04		12	43.7	488.6
23		4	39.81	121.26		20	52.3	484.0

12月4日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″	″
0	16	6	41.07	121.49	−18	28	56.3	−479.4
1		8	42.56	121.73		36	55.7	474.6
2		10	44.29	121.96		44	50.3	469.9
3		12	46.25	122.19	18	52	40.2	465.1
4		14	48.44	122.42	19	0	25.3	460.2
5		16	50.86	122.66		8	5.5	455.4
6	16	18	53.52	122.89	−19	15	40.9	−450.5
7		20	56.41	123.12		23	11.4	445.4
8		22	59.53	123.35		30	36.8	440.4
9		25	2.88	123.59		37	57.2	435.2
10		27	6.47	123.82		45	12.4	430.1
11		29	10.29	124.05		52	22.5	424.9
12	16	31	14.34	124.28	−19	59	27.4	−419.7

12月4日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″	″
12	16	31	14.34	124.28	−19	59	27.4	−419.7
13		33	18.62	124.52	20	6	27.1	414.4
14		35	23.14	124.74		13	21.5	409.1
15		37	27.88	124.98		20	10.6	403.7
16		39	32.86	125.21		26	54.3	398.3
17		41	38.07	125.44		33	32.6	392.8
18	16	43	43.51	125.66	−20	40	5.4	−387.3
19		45	49.17	125.89		46	32.7	381.7
20		47	55.06	126.12		52	54.4	376.2
21		50	1.18	126.34	20	59	10.6	370.5
22		52	7.52	126.57	21	5	21.1	364.9
23		54	14.09	126.80		11	26.0	359.0

12月5日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″	″
0	16	56	20.89	127.02	−21	17	25.0	−353.3
1	16	58	27.91	127.24		23	18.3	347.4
2	17	0	35.15	127.47		29	5.7	341.6
3		2	42.62	127.68		34	47.3	335.7
4		4	50.30	127.90		40	23.0	329.7
5		6	58.20	128.12		45	52.7	323.6
6	17	9	6.32	128.33	−21	51	16.3	−317.6
7		11	14.65	128.54	21	56	33.9	311.6
8		13	23.19	128.75	22	1	45.5	305.5
9		15	31.94	128.97		6	51.0	299.2
10		17	40.91	129.18		11	50.2	293.0
11		19	50.09	129.38		16	43.2	286.7
12	17	21	59.47	129.58	−22	21	29.9	−280.5
13		24	9.05	129.78		26	10.4	274.1
14		26	18.83	129.99		30	44.5	267.7
15		28	28.82	130.18		35	12.2	261.3
16		30	39.00	130.38		39	33.5	254.9
17		32	49.38	130.58		43	48.4	248.3
18	17	34	59.96	130.77	−22	47	56.7	−241.8
19		37	10.73	130.95		51	58.5	235.3
20		39	21.68	131.14		55	53.8	228.7
21		41	32.82	131.32	22	59	42.5	222.0
22		43	44.14	131.50	23	3	24.5	215.4
23		45	55.64	131.68		6	59.9	208.6

12月6日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″	″
0	17	48	7.32	131.85	−23	10	28.5	−201.9
1		50	19.17	132.03		13	50.4	195.1
2		52	31.20	132.20		17	5.5	188.3
3		54	43.40	132.36		20	13.8	181.4
4		56	55.76	132.53		23	15.2	174.6
5	17	59	8.29	132.69		26	9.8	167.7
6	18	1	20.98	132.84	−23	28	57.5	−160.8
7		3	33.82	133.00		31	38.3	153.7
8		5	46.82	133.16		34	12.0	146.8
9		7	59.98	133.30		36	38.8	139.7
10		10	13.28	133.44		38	58.5	132.7
11		12	26.72	133.58		41	11.2	125.6
12	18	14	40.30	133.72	−23	43	16.8	−118.5
13		16	54.02	133.86		45	15.3	111.4
14		19	7.88	133.99		47	6.7	104.2
15		21	21.87	134.11		48	50.9	97.0
16		23	35.98	134.24		50	27.9	89.8
17		25	50.22	134.36		51	57.7	82.6
18	18	28	4.58	134.47	−23	53	20.3	−75.3
19		30	19.05	134.59		54	35.6	68.1
20		32	33.64	134.70		55	43.7	60.8
21		34	48.34	134.79		56	44.5	53.5
22		37	3.13	134.90		57	38.0	46.2
23		39	18.03	135.00		58	24.2	38.8
24	18	41	33.03	135.10	−23	59	3.0	−31.5

12月7日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″	″
0	18	41	33.03	135.10	−23	59	3.0	−31.5
1		43	48.13	135.18		59	34.5	24.0
2		46	3.31	135.27	23	59	58.5	16.7
3		48	18.58	135.34	24	0	15.2	9.3
4		50	33.92	135.43		0	24.5	1.8
5		52	49.35	135.51		0	26.3	+5.6
6	18	55	4.86	135.58	−24	0	20.7	+13.0
7		57	20.44	135.63	24	0	7.7	20.5
8	18	59	36.07	135.70	23	59	47.2	27.9
9	19	1	51.77	135.76		59	19.3	35.4
10		4	7.53	135.82		58	43.9	42.9
11		6	23.35	135.87		58	1.0	50.5
12	19	8	39.22	135.92	−23	57	10.5	+57.9
13		10	55.14	135.95		56	12.6	65.4
14		13	11.09	136.00		55	7.2	72.9
15		15	27.09	136.03		53	54.3	80.4
16		17	43.12	136.06		52	33.9	87.9
17		19	59.18	136.09		51	6.0	95.5
18	19	22	15.27	136.11	−23	49	30.5	+103.0
19		24	31.38	136.14		47	47.5	110.5
20		26	47.52	136.15		45	57.0	118.0
21		29	3.67	136.16		43	59.0	125.5
22		31	19.83	136.17		41	53.5	133.1
23		33	36.00	136.18		39	40.4	140.6

12月8日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″	″
0	19	35	52.18	136.18	−23	37	19.8	+148.0
1		38	8.36	136.17		34	51.8	155.6
2		40	24.53	136.17		32	16.2	163.1
3		42	40.70	136.16		29	33.1	170.6
4		44	56.86	136.15		26	42.5	178.1
5		47	13.01	136.13		23	44.4	185.6
6	19	49	29.14	136.10	−23	20	38.8	+193.1
7		51	45.24	136.08		17	25.7	200.5
8		54	1.32	136.06		14	5.2	207.9
9		56	17.38	136.02		10	37.3	215.3
10	19	58	33.40	135.99		7	2.0	222.7
11	20	0	49.39	135.95	23	3	19.3	230.2
12	20	3	5.34	135.91	−22	59	29.1	+237.6
13		5	21.25	135.86		55	31.5	244.9
14		7	37.11	135.82		51	26.6	252.4
15		9	52.93	135.78		47	14.2	259.7
16		12	8.71	135.72		42	54.5	267.0
17		14	24.43	135.66		38	27.5	274.3
18	20	16	40.09		−22	33	53.2	+281.6
19		18	55.69	135.60		29	11.6	288.9
20		21	11.23	135.54		24	22.7	296.2
21		23	26.71	135.48		19	26.5	303.4
22		25	42.12	135.41		14	23.1	310.6
23		27	57.46	135.34		9	12.5	317.8

12月9日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″	″
0	20	13	13.13	135.27	−22	3	54.7	+325.0
1		32	27.93	135.20	21	58	29.7	332.1
2		34	43.05	135.12		52	57.6	339.3
3		36	58.08	135.03		47	18.3	346.3
4		39	13.03	134.95		41	32.0	353.4
5		41	27.90	134.87		35	38.6	360.4
6	20	43	42.69	134.79	−21	29	38.2	+367.5
7		45	57.39	134.70		23	30.7	374.5
8		48	11.99	134.60		17	16.2	381.3
9		50	26.50	134.51		10	54.9	388.3
10		52	40.92	134.42	21	4	26.6	395.2
11		54	55.25	134.33	20	57	51.4	+402.1
12	20	57	9.48	134.23	−20	51	9.3	

12月9日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″	″
12	20	57	9.48	134.13	−20	51	9.3	+408.9
13	20	59	23.61	134.03		44	20.4	415.7
14	21	1	37.64	133.93		37	24.7	422.5
15		3	51.57	133.82		30	22.2	429.3
16		6	5.39	133.72		23	12.9	436.0
17		8	19.11	133.62		15	56.9	442.6
18	21	10	32.73		−20	8	34.3	+449.3
19		12	46.23	133.50		20	1 5.0	455.9
20		14	59.63	133.40		19	53 29.1	462.4
21		17	12.93	133.30			45 46.7	469.0
22		19	26.11	133.18			37 57.7	475.5
23		21	39.18	133.07			30 2.2	481.9

12月10日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″	″
0	21	23	52.14	132.85	−19	22	0.3	+488.4
1		26	4.99	132.73		13	51.9	494.7
2		28	17.72	132.62	19	5	37.2	501.0
3		30	30.34	132.51	18	57	16.2	507.4
4		32	42.85	132.40		48	48.8	513.7
5		34	55.25	132.29		40	15.1	519.9
6	21	37	7.54	132.17	−18	31	35.2	+526.0
7		39	19.71	132.06		22	49.2	532.2
8		41	31.77	131.94		13	57.0	538.3
9		43	43.71	131.83	18	4	58.7	544.3
10		45	55.54	131.71	17	55	54.4	550.3
11		48	7.25	131.60		46	44.1	556.3
12	21	50	18.85	131.49	−17	37	27.8	+562.3
13		52	30.34	131.38		28	5.5	568.1
14		54	41.72	131.27		18	37.4	574.0
15		56	52.99	131.16	17	9	3.4	579.7
16	21	59	4.15	131.04	16	59	23.7	585.5
17	22	1	15.19	130.93		49	38.2	591.3
18	22	3	26.12	130.83	−16	39	46.9	+596.9
19		5	36.95	130.72		29	50.0	602.4
20		7	47.67	130.61		19	47.6	608.1
21		9	58.28	130.51	16	9	39.5	613.6
22		12	8.79	130.40	15	59	25.9	619.1
23		14	19.19	130.30		49	6.8	624.5

12月11日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″	″
0	22	16	29.49	130.20	−15	38	42.3	+629.9
1		18	39.69	130.09		28	12.4	635.2
2		20	49.78	129.99		17	37.2	640.5
3		22	59.77	129.89	15	6	56.7	645.7
4		25	9.66	129.80	14	56	11.0	650.9
5		27	19.46	129.70		45	20.1	656.0
6	22	29	29.16	129.61	−14	34	24.1	+661.1
7		31	38.77	129.52		23	23.0	666.2
8		33	48.29	129.43		12	16.8	671.1
9		35	57.72	129.35	14	1	5.7	676.1
10		38	7.07	129.26	13	49	49.6	681.0
11		40	16.33	129.17		38	28.6	685.7
12	22	42	25.50	129.09	−13	27	2.9	+690.5
13		44	34.59	129.01		15	32.4	695.3
14		46	43.60	128.94	13	3	57.1	700.0
15		48	52.54	128.86	12	52	17.1	704.5
16		51	1.40	128.78		40	32.6	709.1
17		53	10.18	128.71		28	43.5	713.7
18	22	55	18.89	128.65	−12	16	49.8	+718.1
19		57	27.54	128.58		12	4	51.7	722.5
20	22	59	36.12	128.52	11	52	49.2	726.9
21	23	1	44.64	128.46		40	42.3	731.1
22		3	53.10	128.41		28	31.2	735.4
23		6	1.51	128.35		16	15.8	739.6
24	23	8	9.86		−11	3	56.2	+739.6

世界時 赤經 赤緯

12 月 12 日

h	h	m	s	s	°	′	″	″
0	23	8	9.86	128.29	−11	3	56.2	+743.7
1		10	18.15	128.24	10	51	32.5	747.7
2		12	26.39	128.20		39	4.8	751.7
3		14	34.59	128.16		26	33.1	755.7
4		16	42.73	128.12		13	57.4	759.6
5		18	50.85	128.08	10	1	17.8	763.5
6	23	20	58.93	128.04	−9	48	34.3	+767.2
7		23	6.97	128.01		35	47.1	770.9
8		25	14.98	127.98		22	56.2	774.6
9		27	22.96	127.96	9	10	1.6	778.2
10		29	30.92	127.94	8	57	3.4	781.8
11		31	38.86	127.92		44	1.6	785.2
12	23	33	46.78	127.90	−8	30	56.4	+788.7
13		35	54.68	127.89		17	47.7	792.0
14		38	2.57	127.88	8	4	35.7	795.3
15		40	10.45	127.88	7	51	20.4	798.5
16		42	18.33	127.88		38	1.9	801.7
17		44	26.21	127.87		24	40.2	804.8
18	23	46	34.08	127.88	−7	11	15.4	+807.9
19		48	41.96	127.90	6	57	47.5	810.9
20		50	49.86	127.91		44	16.6	813.8
21		52	57.77	127.92		30	42.8	816.5
22		55	5.69	127.95		17	6.3	819.4
23		57	13.64	127.97	6	3	26.9	822.2

12 月 13 日

h	h	m	s	s	°	′	″	″
0	23	59	21.61	128.00	−5	49	44.7	+824.8
1	0	1	29.61	128.03		35	59.9	827.4
2		3	37.64	128.07		22	12.5	829.9
3		5	45.71	128.11	5	8	22.6	832.4
4		7	53.82	128.15	4	54	30.2	834.8
5		10	1.97	128.19		40	35.4	837.1
6	0	12	10.16	128.25	−4	26	38.3	+839.4
7		14	18.41	128.31	4	12	38.9	841.5
8		16	26.72	128.37	3	58	37.4	843.6
9		18	35.09	128.42		44	33.8	845.7
10		20	43.51	128.49		30	28.1	847.6
11		22	52.00	128.57		16	20.5	849.6
12	0	25	0.57	128.65	−3	2	10.9	+851.4
13		27	9.22	128.72	2	47	59.5	853.2
14		29	17.94	128.81		33	46.3	854.8
15		31	26.75	128.89		19	31.5	856.4
16		33	35.64	128.99	2	5	15.1	858.0
17		35	44.63	129.08	1	50	57.1	859.5
18	0	37	53.71	129.18	−1	36	37.6	+860.8
19		40	2.89	129.29		22	16.8	862.1
20		42	12.18	129.40	1	7	54.7	863.4
21		44	21.58	129.51	0	53	31.3	864.5
22		46	31.09	129.63		39	6.8	865.6
23		48	40.72	129.75		24	41.2	866.6

12 月 14 日

h	h	m	s	s	°	′	″	″
0	0	50	50.47	129.87	−0	10	14.6	+867.5
1		53	0.34	130.01	+0	4	12.9	868.4
2		55	10.35	130.15		18	41.3	869.1
3		57	20.50	130.28		33	10.4	869.8
4	0	59	30.78	130.42	0	47	40.2	870.4
5	1	1	41.20	130.57	1	2	10.6	870.9
6	1	3	51.77	130.72	+1	16	41.5	+871.3
7		6	2.49	130.88		31	12.8	871.7
8		8	13.37	131.04	1	45	44.5	871.9
9		10	24.41	131.20	2	0	16.4	872.1
10		12	35.61	131.37		14	48.5	872.2
11		14	46.98	131.55		29	20.7	+872.3
12	1	16	58.53		+2	43	53.0	

12 月 14 日

h	h	m	s	s	°	′	″	″
12	1	16	58.53	131.72	+2	43	53.0	+872.2
13		19	10.25	131.90	2	58	25.2	872.0
14		21	22.15	132.09	3	12	57.2	871.7
15		23	34.24	132.27		27	28.9	871.4
16		25	46.51	132.47		42	0.3	871.0
17		27	58.98	132.66	3	56	31.3	870.4
18	1	30	11.64	132.87	+4	11	1.7	+869.9
19		32	24.51	133.07		25	31.6	869.2
20		34	37.58	133.28		40	0.8	868.3
21		36	50.86	133.49	4	54	29.1	867.3
22		39	4.35	133.72	5	8	56.4	866.4
23		41	18.07	133.94		23	22.8	865.4

12 月 15 日

h	h	m	s	s	°	′	″	″
0	1	43	32.01	134.17	+5	37	48.2	+864.2
1		45	46.18	134.39	5	52	12.4	862.9
2		48	0.57	134.62	6	6	35.3	861.6
3		50	15.19	134.86		20	56.9	860.1
4		52	30.05	135.11		35	17.0	858.6
5		54	45.16	135.34	6	49	35.6	856.9
6	1	57	0.50	135.59	+7	3	52.5	+855.2
7	1	59	16.09	135.85		18	7.7	853.3
8	2	1	31.94	136.11		32	21.0	851.3
9		3	48.05	136.36	7	46	32.3	849.3
10		6	4.41	136.63	8	0	41.6	847.1
11		8	21.04	136.89		14	48.7	844.9
12	2	10	37.93	137.16	+8	28	53.6	+842.5
13		12	55.09	137.44		42	56.1	840.1
14		15	12.53	137.71	8	56	56.2	837.5
15		17	30.24	137.98	9	10	53.7	834.9
16		19	48.22	138.27		24	48.6	832.1
17		22	6.49	138.55		38	40.7	829.2
18	2	24	25.04	138.84	+9	52	29.9	+826.2
19		26	43.88	139.14	10	6	16.1	823.1
20		29	3.02	139.43		19	59.2	820.0
21		31	22.45	139.72		33	39.2	816.7
22		33	42.17	140.02	10	47	15.9	813.2
23		36	2.19	140.33	11	0	49.1	809.7

12 月 16 日

h	h	m	s	s	°	′	″	″
0	2	38	22.52	140.64	+11	14	18.8	+806.1
1		40	43.16	140.93		27	44.9	802.4
2		43	4.09	141.24		41	7.3	798.6
3		45	25.33	141.56	11	54	25.9	794.6
4		47	46.89	141.87	12	7	40.5	790.6
5		50	8.76	142.18		20	51.1	786.4
6	2	52	30.94	142.50	+12	33	57.5	+782.1
7		54	53.44	142.82		46	59.6	777.7
8		57	16.26	143.14	12	59	57.3	773.3
9	2	59	39.40	143.46	13	12	50.6	768.6
10	3	2	2.86	143.78		25	39.2	763.9
11		4	26.64	144.11		38	23.1	759.0
12	3	6	50.75	144.43	+13	51	2.1	+754.1
13		9	15.18	144.76	14	3	36.2	749.1
14		11	39.94	145.08		16	5.3	743.9
15		14	5.02	145.41		28	29.2	738.7
16		16	30.43	145.74		40	47.9	733.3
17		18	56.17	146.07	14	53	1.2	727.8
18	3	21	22.24	146.40	+15	5	9.0	+722.2
19		23	48.64	146.73		17	11.2	716.5
20		26	15.37	147.06		29	7.7	710.7
21		28	42.43	147.39		40	58.4	704.7
22		31	9.82	147.72	15	52	43.1	698.7
23		33	37.54	148.04	16	4	21.8	+692.5
24	3	36	5.58		+16	15	54.3	

世界時 赤經 赤緯

12 月 17 日

h	h	m	s	s	°	′	″	″
0	3	36	5.58	148.37	+16	15	54.3	+686.3
1		38	33.95	148.70		27	20.6	679.9
2		41	2.65	149.03		38	40.5	673.4
3		43	31.68	149.36	16	49	53.9	666.8
4		46	1.04	149.68	17	1	0.7	660.2
5		48	30.72	149.99		12	0.9	653.3
6	3	51	0.71	150.32	+17	22	54.2	+646.5
7		53	31.03	150.64		33	40.7	639.5
8		56	1.67	150.96		44	20.2	632.3
9	3	58	32.63	151.27	17	54	52.5	625.1
10	4	1	3.90	151.58	18	5	17.6	617.8
11		3	35.48	151.89		15	35.4	610.4
12	4	6	7.37	152.20	+18	25	45.8	+602.8
13		8	39.57	152.51		35	48.6	595.2
14		11	12.08	152.81		45	43.8	587.5
15		13	44.89	153.10	18	55	31.3	579.7
16		16	17.99	153.40	19	5	11.0	571.8
17		18	51.39	153.70		14	42.8	563.8
18	4	21	25.09	153.98	+19	24	6.6	+555.6
19		23	59.07	154.25		33	22.2	547.4
20		26	33.32	154.54		42	29.6	539.1
21		29	7.86	154.82	19	51	28.7	530.8
22		31	42.68	155.09	20	0	19.5	522.3
23		34	17.77	155.35		9	1.8	513.7

12 月 18 日

h	h	m	s	s	°	′	″	″
0	4	36	53.12	155.61	+20	17	35.5	+505.1
1		39	28.73	155.87		26	0.6	496.3
2		42	4.60	156.12		34	16.9	487.5
3		44	40.72	156.37		42	24.4	478.6
4		47	17.09	156.61		50	23.0	469.6
5		49	53.70	156.84	20	58	12.6	460.6
6	4	52	30.54	157.07	+21	5	53.2	+451.4
7		55	7.61	157.29		13	24.6	442.2
8	4	57	44.90	157.50		20	46.8	432.9
9	5	0	22.40	157.71		27	59.7	423.6
10		3	0.11	157.92		35	3.3	414.1
11		5	38.03	158.11		41	57.4	404.7
12	5	8	16.14	158.30	+21	48	42.1	+395.1
13		10	54.44	158.48	21	55	17.2	385.5
14		13	32.92	158.66	22	1	42.7	375.8
15		16	11.58	158.82		7	58.5	366.0
16		18	50.40	158.98		14	4.5	356.2
17		21	29.38	159.13		20	0.7	346.3
18	5	24	8.51	159.28	+22	25	47.0	+336.5
19		26	47.79	159.41		31	23.5	326.5
20		29	27.20	159.54		36	50.0	316.5
21		32	6.74	159.66		42	6.5	306.5
22		34	46.40	159.77		47	13.0	296.4
23		37	26.17	159.87		52	9.4	286.2

12 月 19 日

h	h	m	s	s	°	′	″	″
0	5	40	6.04	159.96	+22	56	55.6	+276.1
1		42	46.00	160.05	23	1	31.7	265.8
2		45	26.05	160.12		5	57.5	255.5
3		48	6.17	160.19		10	13.0	245.3
4		50	46.36	160.25		14	18.3	235.1
5		53	26.61	160.30		18	13.4	224.7
6	5	56	6.91	160.34	+23	21	58.1	+214.4
7	5	58	47.25	160.37		25	32.5	204.0
8	6	1	27.62	160.39		28	56.5	193.5
9		4	8.01	160.40		32	10.0	183.1
10		6	48.41	160.41		35	13.1	172.7
11		9	28.82	160.41		38	5.8	+162.3
12	6	12	9.23		+23	40	48.1	

12 月 19 日

h	h	m	s	s	°	′	″	″
12	6	12	9.23	160.39	+23	40	48.1	+151.9
13		14	49.62	160.36		43	20.0	141.4
14		17	29.98	160.33		45	41.4	130.9
15		20	10.31	160.29		47	52.3	120.5
16		22	50.60	160.23		49	52.8	110.1
17		25	30.83	160.17		51	42.9	99.6
18	6	28	11.00	160.10	+23	53	22.5	+89.2
19		30	51.10	160.01		54	51.7	78.8
20		33	31.11	159.92		56	10.5	68.4
21		36	11.03	159.82		57	18.9	57.9
22		38	50.85	159.71		58	16.8	47.6
23		41	30.56	159.60		59	4.4	37.2

12 月 20 日

h	h	m	s	s	°	′	″	″
0	6	44	10.16	159.47	+23	59	41.6	+26.8
1		46	49.63	159.33	24	0	8.4	16.5
2		49	28.96	159.18		0	24.9	+6.2
3		52	8.14	159.02		0	31.1	−4.0
4		54	47.16	158.86		0	27.1	14.3
5	6	57	26.02	158.69	24	0	12.8	24.4
6	7	0	4.71	158.50	+23	59	48.4	−34.6
7		2	43.21	158.31		59	13.8	44.7
8		5	21.52	158.11		58	29.1	54.8
9		7	59.63	157.90		57	34.3	64.9
10		10	37.53	157.69		56	29.4	74.9
11		13	15.22	157.46		55	14.5	84.8
12	7	15	52.68	157.23	+23	53	49.7	−94.7
13		18	29.91	156.98		52	15.0	104.5
14		21	6.89	156.74		50	30.5	114.4
15		23	43.63	156.48		48	36.1	124.1
16		26	20.11	156.22		46	32.0	133.8
17		28	56.33	155.94		44	18.2	143.5
18	7	31	32.27	155.67	+23	41	54.7	−153.0
19		34	7.94	155.38		39	21.7	162.5
20		36	43.32	155.09		36	39.2	172.0
21		39	18.41	154.78		33	47.2	181.3
22		41	53.19	154.47		30	45.9	190.7
23		44	27.66	154.16		27	35.2	199.9

12 月 21 日

h	h	m	s	s	°	′	″	″
0	7	47	1.82	153.84	+23	24	15.3	−209.1
1		49	35.66	153.52		20	46.2	218.2
2		52	9.18	153.18		17	8.0	227.3
3		54	42.36	152.84		13	20.7	236.2
4		57	15.20	152.50		9	24.5	245.1
5	7	59	47.70	152.14		5	19.4	253.9
6	8	2	19.84	151.79	+23	1	5.5	−262.6
7		4	51.63	151.43	22	56	42.9	271.3
8		7	23.06	151.07		52	11.6	279.8
9		9	54.13	150.69		47	31.8	288.4
10		12	24.82	150.32		42	43.4	296.8
11		14	55.14	149.94		37	46.6	305.2
12	8	17	25.08	149.55	+22	32	41.4	−313.4
13		19	54.63	149.17		27	28.0	321.6
14		22	23.80	148.78		22	6.4	329.7
15		24	52.58	148.38		16	36.7	337.6
16		27	20.96	147.98		10	59.1	345.5
17		29	48.94	147.57	22	5	13.6	353.4
18	8	32	16.51	147.17	+21	59	20.2	−361.2
19		34	43.68	146.77		53	19.0	368.8
20		37	10.45	146.36		47	10.2	376.3
21		39	36.81	145.94		40	53.9	383.8
22		42	2.75	145.52		34	30.1	391.2
23		44	28.27	145.10		27	58.9	−398.5
24	8	46	53.37		+21	21	20.4	

12月22日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″		″
0	8	46	53.37	144.68	+21	21	20.4	−	405.8
1		49	18.05	144.26		14	34.6		412.9
2		51	42.31	143.84		7	41.7		419.9
3		54	6.15	143.41	21	0	41.8		426.9
4		56	29.56	142.99	20	53	34.9		433.7
5	8	58	52.55	142.55		46	21.2		440.4
6	9	1	15.10	142.12	+20	39	0.8	−	447.1
7		3	37.22	141.69		31	33.7		453.7
8		5	58.91	141.27		24	0.0		460.2
9		8	20.18	140.83		16	19.8		466.6
10		10	41.01	140.40		8	33.2		472.9
11		13	1.41	139.96	20	0	40.3		479.2
12	9	15	21.37	139.52	+19	52	41.1	−	485.3
13		17	40.89	139.09		44	35.8		491.3
14		19	59.98	138.66		36	24.5		497.2
15		22	18.64	138.23		28	7.3		503.1
16		24	36.87	137.80		19	44.2		508.9
17		26	54.67	137.36		11	15.3		514.5
18	9	29	12.03	136.94	+19	2	40.8	−	520.2
19		31	28.97	136.50	18	54	0.6		525.7
20		33	45.47	136.08		45	14.9		531.1
21		36	1.55	135.64		36	23.8		536.4
22		38	17.19	135.21		27	27.4		541.7
23		40	32.40	134.79		18	25.7		546.9

12月23日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″		″
0	9	42	47.19	134.37	+18	9	18.8	−	552.0
1		45	1.56	133.94	18	0	6.8		556.9
2		47	15.50	133.52	17	50	49.9		561.8
3		49	29.02	133.10		41	28.1		566.7
4		51	42.12	132.68		32	1.4		571.4
5		53	54.80	132.27		22	30.0		576.0
6	9	56	7.07	131.86	+17	12	54.0	−	580.6
7	9	58	18.93	131.44	17	3	13.4		585.1
8	10	0	30.37	131.03	16	53	28.3		589.5
9		2	41.40	130.63		43	38.8		593.9
10		4	52.03	130.22		33	44.9		598.1
11		7	2.25	129.82		23	46.8		602.2
12	10	9	12.07	129.43	+16	13	44.6	−	606.3
13		11	21.50	129.03	16	3	38.3		610.4
14		13	30.53	128.63	15	53	27.9		614.3
15		15	39.16	128.23		43	13.6		618.1
16		17	47.39	127.85		32	55.5		621.9
17		19	55.24	127.47		22	33.6		625.6
18	10	22	2.71	127.08	+15	12	8.0	−	629.2
19		24	9.79	126.70	15	1	38.8		632.8
20		26	16.49	126.33	14	51	6.0		636.3
21		28	22.82	125.95		40	29.7		639.7
22		30	28.77	125.58		29	50.0		643.0
23		32	34.35	125.22		19	7.0		646.2

12月24日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″		″
12	10	59	14.95	120.79	+11	55	17.1	−	682.4
13	11	1	15.74	120.47		43	54.7		684.7
14		3	16.21	120.16		32	30.0		686.9
15		5	16.37	119.86		21	3.1		689.1
16		7	16.23	119.56	11	9	34.0		691.3
17		9	15.79	119.25	10	58	2.7		693.3
18	11	11	15.04	118.96	+10	46	29.4	−	695.4
19		13	14.00	118.68		34	54.0		697.3
20		15	12.68	118.39		23	16.7		699.2
21		17	11.07	118.11	10	11	37.5		701.1
22		19	9.18	117.83	9	59	56.4		702.9
23		21	7.01	117.56		48	13.5		704.6

12月25日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″		″
0	11	23	4.57	117.29	+	9	36	28.9		
1		25	1.86	117.02			24	42.6	−	706.3
2		26	58.88	116.76			12	54.7		707.9
3		28	55.64	116.51		9	1	5.3		709.4
4		30	52.15	116.25		8	49	14.3		711.0
5		32	48.40	116.00			37	21.8		712.5
6	11	34	44.40	115.76	+	8	25	28.0		713.8
7		36	40.16	115.53			13	32.8	−	715.2
8		38	35.69	115.29		8	1	36.3		716.5
9		40	30.98	115.06		7	49	38.5		717.8
10		42	26.04	114.83			37	39.6		718.9
11		44	20.87	114.61			25	39.5		720.1
12	11	46	15.48	114.39	+	7	13	38.3		721.2
13		48	9.87	114.18		7	1	36.0	−	722.3
14		50	4.05	113.97		6	49	32.8		723.2
15		51	58.02	113.76			37	28.6		724.2
16		53	51.78	113.57			25	23.4		725.2
17		55	45.35	113.36			13	17.4		726.0
18	11	57	38.71	113.17	+	6	1	10.6		726.8
19	11	59	31.88	112.99		5	49	3.1	−	727.5
20	12	1	24.87	112.81			36	54.8		728.3
21		3	17.68	112.63			24	45.8		729.0
22		5	10.31	112.45			12	36.2		729.6
23		7	2.76	112.28		5	0	26.0		730.2
										730.8

12月26日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″		″
0	12	8	55.04	112.12	+	4	48	15.2		
1		10	47.16	111.95			36	3.9	−	731.3
2		12	39.11	111.80			23	52.2		731.7
3		14	30.91	111.64		4	11	40.1		732.1
4		16	22.55	111.49		3	59	27.6		732.5
5		18	14.04	111.35			47	14.8		732.8
6	12	20	5.39	111.21						733.1
7		21	56.60	111.07	+	3	35	1.7		733.4
8		23	47.67	110.94			22	48.3	−	733.5
9		25	38.61	110.82		3	10	34.8		733.7
10		27	29.43	110.70		2	58	21.1		733.9
11		29	20.13	110.58			46	7.2		733.9
12	12	31	10.71	110.46			33	53.3		733.9
13		33	1.17	110.34	+	2	21	39.4		733.9
14		34	51.51	110.24		2	9	25.4	−	734.0
15		36	41.75	110.14		1	57	11.5		733.9
16		38	31.89	110.05			44	57.6		733.9
17		40	21.94	109.95			32	43.9		733.7
18	12	42	11.89	109.86			20	30.3		733.6
19		44	1.75	109.77	+	1	8	16.9		733.4
20		45	51.52	109.70		0	56	3.8	−	733.1
21		47	41.22	109.61			43	50.9		732.9
22		49	30.83	109.54			31	38.3		732.6
23		51	20.37	109.48			19	26.0		732.3
24	12	53	9.85		+	0	7	14.1	−	731.9
					−	0	4	57.3	−	731.4

12月27日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″		″
0	12	53	9.85	109.41	−	0	4	57.3	−	731.0
1		54	59.26	109.35			17	8.3		730.5
2		56	48.61	109.30			29	18.8		730.0
3	12	58	37.91	109.24			41	28.8		729.4
4	13	0	27.15	109.20		0	53	38.2		728.8
5		2	16.35	109.15		1	5	47.0		728.2
6	13	4	5.50	109.11	−	1	17	55.2	−	727.5
7		5	54.61	109.08			30	2.7		726.8
8		7	43.69	109.05			42	9.5		726.0
9		9	32.74	109.02		1	54	15.5		725.2
10		11	21.76	109.00		2	6	20.7		724.4
11		13	10.76	108.98			18	25.1		723.5
12	13	14	59.74	108.96	−	2	30	28.6		
13		16	48.70	108.94			42	31.3	−	722.7
14		18	37.64	108.94		2	54	33.0		721.7
15		20	26.58	108.93		3	6	33.8		720.8
16		22	15.51	108.94			18	33.5		719.7
17		24	4.45	108.94			30	32.2		718.7
18	13	25	53.39	108.95	−	3	42	29.9		717.7
19		27	42.34	108.96		3	54	26.5	−	716.6
20		29	31.30	108.98		4	6	22.0		715.5
21		31	20.28	108.99			18	16.2		714.2
22		33	9.27	109.02			30	9.2		713.0
23		34	58.29	109.04			42	1.0		711.8
										710.5

12月28日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″		″
0	13	36	47.33	109.08	−	4	53	51.5		
1		38	36.41	109.11		5	5	40.7	−	709.2
2		40	25.52	109.15			17	28.5		707.8
3		42	14.67	109.19			29	14.9		706.4
4		44	3.86	109.24			40	59.9		705.0
5		45	53.10	109.29		5	52	43.4		703.5
6	13	47	42.39	109.34	−	6	4	25.4		702.0
7		49	31.73	109.40			16	5.9	−	700.5
8		51	21.13	109.46			27	44.8		698.9
9		53	10.59	109.52			39	22.1		697.3
10		55	0.11	109.59		6	50	57.7		695.6
11		56	49.70	109.67		7	2	31.7		694.0
12	13	58	39.37	109.74	−	7	14	3.9		692.2
13	14	0	29.11	109.82			25	34.4	−	690.5
14		2	18.93	109.90			37	3.1		688.7
15		4	8.83	109.99			48	30.0		686.9
16		5	58.82	110.08		7	59	55.0		685.0
17		7	48.90	110.17		8	11	18.2		683.2
18	14	9	39.07	110.27	−	8	22	39.4		681.2
19		11	29.34	110.37			33	58.6	−	679.2
20		13	19.71	110.47			45	15.7		677.1
21		15	10.18	110.57		8	56	30.8		675.1
22		17	0.75	110.69		9	7	43.9		673.1
23		18	51.44	110.81			18	54.9		671.0
										668.8

12月29日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″		″
0	14	20	42.25	110.92	−	9	30	3.7		
1		22	33.17	111.04			41	10.2	−	666.5
2		24	24.21	111.16		9	52	14.5		664.3
3		26	15.37	111.29		10	3	16.6		662.1
4		28	6.66	111.42			14	16.3		659.7
5		29	58.08	111.55			25	13.7		657.4
6	14	31	49.63	111.70						654.9
7		33	41.33	111.83	−	10	36	8.6		
8		35	33.16	111.97			47	1.1	−	652.5
9		37	25.13	112.12		10	57	51.1		650.0
10		39	17.25	112.27		11	8	38.6		647.5
11		41	9.52	112.42			19	23.6		645.0
12	14	43	1.94				30	6.0		642.4
					−	11	40	45.7	−	639.7

12月30日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″		″
12	14	43	1.94	112.57	−11	40	45.7	−	637.1
13		44	54.51	112.73		11	51	22.8		634.3
14		46	47.24	112.90		12	1	57.1		631.6
15		48	40.14	113.06			12	28.7		628.8
16		50	33.20	113.23			22	57.5		625.9
17		52	26.43	113.39			33	23.4		623.1
18	14	54	19.82		−12	43	46.5		
19		56	13.39	113.57		12	54	6.7	−	620.2
20	14	58	7.13	113.74		13	4	23.9		617.2
21	15	0	1.05	113.92			14	38.1		614.2
22		1	55.15	114.10			24	49.2		611.1
23		3	49.43	114.28			34	57.2		608.0
				114.47						604.9

12月31日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″		″
0	15	5	43.90	114.66	−13	45	2.1		
1		7	38.56	114.85		13	55	3.8	−	601.7
2		9	33.41	115.04		14	5	2.3		598.5
3		11	28.45	115.24			14	57.5		595.2
4		13	23.69	115.44			24	49.5		592.0
5		15	19.13	115.64			34	38.1		588.6
6	15	17	14.77	115.84	−14	44	23.3			585.2
7		19	10.61	116.04		14	54	5.0	−	581.7
8		21	6.65	116.26		15	3	43.2		578.2
9		23	2.91	116.47			13	17.9		574.7
10		24	59.38	116.68			22	49.0		571.1
11		26	56.06	116.89			32	16.5		567.5
12	15	28	52.95	117.11	−15	41	40.4			563.9
13		30	50.06	117.33		15	51	0.6	−	560.2
14		32	47.39	117.55		16	0	17.0		556.4
15		34	44.94	117.76			9	29.6		552.6
16		36	42.70	117.99			18	38.3		548.7
17		38	40.69	118.22			27	43.1		544.8
18	15	40	38.91	118.45	−16	36	44.0			540.9
19		42	37.36	118.68		45	40.8	−	536.8
20		44	36.04	118.91		16	54	33.6		532.8
21		46	34.95	119.14		17	3	22.4		528.8
22		48	34.09	119.38			12	7.0		524.6
23		50	33.47	119.61			20	47.5		520.5
										516.2

1月1日

世界時 h	赤經 h	赤經 m	赤經 s	赤經 s	赤緯 °	赤緯 ′	赤緯 ″		″
0	15	52	33.08	119.85	−17	29	23.7		
1		54	32.93	120.09			37	55.7	−	512.0
2		56	33.02	120.33			46	23.3		507.6
3	15	58	33.35	120.57		17	54	46.6		503.3
4	16	0	33.92	120.81		18	3	5.4		498.8
5		2	34.73	121.05			11	19.8		494.4
6	16	4	35.78	121.30	−18	19	29.6			489.8
7		6	37.08	121.54			27	34.9	−	485.3
8		8	38.62	121.79			35	35.6		480.7
9		10	40.41	122.04			43	31.6		476.0
10		12	42.45	122.29			51	22.9		471.3
11		14	44.74	122.53		18	59	9.4		466.5
12	16	16	47.27	122.78	−19	6	51.1			461.7
13		18	50.05	123.03			14	28.0	−	456.9
14		20	53.08	123.28			21	59.9		451.9
15		22	56.36	123.54			29	26.9		447.0
16		24	59.90	123.78			36	48.8		441.9
17		27	3.68	124.04			44	5.7		436.9
18	16	29	7.72	124.29	−19	51	17.6			431.9
19		31	12.01	124.54		19	58	24.3	−	426.7
20		33	16.55	124.79		20	5	25.8		421.5
21		35	21.34	125.04			12	22.0		416.2
22		37	26.38	125.29			19	12.9		410.9
23		39	31.67	125.54			25	58.5		405.6
24	16	41	37.21		−20	32	38.7		−	400.2

月 日	黄經			黄緯			視半徑		地平視差			月齡	日	本初子午線 正中時	
	°	′	″	°	′	″	′	″	′	″	″	d		h	m
1 1.0	128	51	53.7	+ 1	51	8.5	15	14.66	55	56.94	−17.94	16.4	1.0	2	10.6
1.5	135	9	24.5	2	23	3.7		9.78		39.00	16.95				m 49.0
2.0	141	22	54.0	2	52	56.2		5.16		22.05	15.67	17.4	2.0	2	59.6
2.5	147	32	39.3	3	20	29.4	15	0.89	55	6.38	14.08				46.1
3.0	153	39	1.5	3	45	29.7	14	57.05	54	52.30	12.24	18.4	3.0	3	45.7
3.5	159	42	24.8	+ 4	7	45.6	14	53.72	54	40.06					43.5
4.0	165	43	16.2		27	7.7		50.94		29.88	−10.18	19.4	4.0	4	29.2
4.5	171	42	5.8		43	28.5		48.79		21.96	7.92				41.9
5.0	177	39	25.2	4	56	41.4		47.28		16.44	5.52	20.4	5.0	5	11.1
5.5	183	35	48.0	5	6	41.5		46.47		13.47	2.97				41.0
6.0	189	31	48.9	+ 5	13	24.6	14	46.38	54	13.11	− 0.36	21.4	6.0	5	52.1
6.5	195	28	3.4		16	47.4		47.00		15.42	+ 2.31				41.2
7.0	201	25	7.4		16	47.1		48.36		20.40	4.98	22.4	7.0	6	33.3
7.5	207	23	36.6		13	21.9		50.44		28.02	7.62				42.3
8.0	213	24	6.0	5	6	30.5		53.21		38.19	10.17	23.4	8.0	7	15.6
8.5	219	27	9.6	+ 4	56	12.9	14	56.65	54	50.81	12.62				44.3
9.0	225	33	19.5		42	29.9	15	0.71	55	5.71	+14.90	24.4	9.0	7	59.9
9.5	231	43	5.6		25	24.1		5.33		22.67	16.96				47.1
10.0	237	56	55.0	4	4	59.8		10.44	55	41.44	18.77	25.4	10.0	8	47.0
10.5	244	15	11.2	3	41	23.7		15.96	56	1.71	20.27				50.6
11.0	250	38	13.5	+ 3	14	45.2	15	21.80	56	23.12	21.41	26.4	11.0	9	37.6
11.5	257	6	16.6	2	45	17.0		27.84	56	45.30	+22.18				53.9
12.0	263	39	30.0	2	13	15.3		33.97	57	7.81	22.51	27.4	12.0	10	31.5
12.5	270	17	57.1	1	39	0.5		40.07		30.21	22.40				56.8
13.0	277	1	35.6	1	2	56.8		46.02	57	52.03	21.82	28.4	13.0	11	28.3
13.5	283	50	16.7	+ 0	25	32.7	15	51.69	58	12.84	20.81				58.2
14.0	290	43	45.4	− 0	12	39.7	15	56.96		32.19	+19.35	29.4	14.0	12	26.5
14.5	297	41	40.6	0	51	4.8	16	1.73	58	49.70	17.51				58.1
15.0	304	43	35.7	1	29	4.9		5.91	59	5.03	15.33	0.8	15.0	13	24.6
15.5	311	48	59.5	2	6	0.4		9.42		17.93	12.90				56.5
16.0	318	57	16.5	− 2	41	12.1	16	12.22	59	28.21	10.28	1.8	16.0	14	21.1
16.5	326	7	48.8	3	14	1.7		14.29		35.79	+ 7.58				54.3
17.0	333	19	57.0	3	43	53.1		15.62		40.67	4.88	2.8	17.0	15	15.4
17.5	340	33	1.3	4	10	14.0		16.23		42.92	+ 2.25				52.4
18.0	347	46	22.9		32	36.5		16.17		42.71	− 0.21	3.8	18.0	16	7.8
18.5	354	59	25.5	− 4	50	38.3	16	15.50	59	40.23	2.48				50.9
19.0	2	11	35.3	5	4	2.7		14.27		35.73	− 4.50	4.8	19.0	16	58.7
19.5	9	22	22.3		12	38.6		12.57		29.47	6.26				50.4
20.0	16	31	21.0		16	21.2		10.45		21.71	7.76	5.8	20.0	17	49.1
20.5	23	38	9.8		15	11.3		8.00		12.70	9.01				50.7
21.0	30	42	31.5	− 5	9	14.5	16	5.27	59	2.67	10.03				
21.5	37	44	12.5	4	58	41.6	16	2.31	58	51.82	−10.85	6.8	21.0	18	39.8
22.0	44	43	3.0		43	47.2	15	59.17		40.30	11.52				51.8
22.5	51	38	55.9		24	49.9		55.89		28.25	12.05	7.8	22.0	19	31.6
23.0	58	31	46.7	4	2	11.2		52.48		15.74	12.51				53.1
23.5	65	21	32.4	− 3	36	15.4	15	48.97	58	2.86	12.88	8.8	23.0	20	24.7
24.0	72	8	11.5	3	7	28.7		45.36	57	49.62	−13.24				54.5
24.5	78	51	43.0	2	36	19.1		41.67		36.06	13.56	9.8	24.0	21	19.2
25.0	85	32	6.5	2	3	15.8		37.89		22.20	13.86				55.0
25.5	92	9	21.9	1	28	48.6		34.04	57	8.06	14.14	10.8	25.0	22	14.2
26.0	98	43	29.0	− 0	53	27.4	15	30.12	56	53.67	14.39				54.4
26.5	105	14	27.7	− 0	17	41.9		26.14		39.07	−14.60	11.8	26.0	23	8.6
27.0	111	42	18.2	+ 0	17	59.0		22.13		24.33	14.74				
27.5	118	7	7.0	0	53	7.6		18.10	56	9.55	14.78	12.8	27.0	...	...
28.0	124	28	36.3	1	27	17.8		14.09	55	54.83	14.72				52.6
28.5	130	47	7.0	+ 2	0	5.4	15	10.14	55	40.32	14.51	13.8	28.0	0	1.2
29.0	137	2	35.9	2	31	8.5		6.28		26.17	−14.15				50.2
29.5	143	15	7.9	3	0	7.5	15	2.58	55	12.57	13.60	14.8	29.0	0	51.4
30.0	149	24	49.5		26	45.2	14	59.08	54	59.72	12.85				47.3
30.5	155	31	49.8	3	50	47.1		55.84		47.83	11.89	15.8	30.0	1	38.7
31.0	161	36	19.8	+ 4	12	0.9	14	52.91	54	37.09	10.74				44.8
31.5	167	38	33.5		30	16.8		50.36		27.74	− 9.35	16.8	31.0	2	23.5
2 1.0	173	38	47.1	+ 4	45	26.9	14	48.24	54	19.97	− 7.77	17.8	1.0	3	6.2

月 日	黄經			黄緯			視半徑		地平視差			月齡	日	本初子午線 正中時	
	°	′	″	°	′	″	′	″	′	″	″	d		h	m
2 1.0	173	38	47.1	+ 4	45	26.9	14	48.24	54	19.97	− 5.98	17.8	1.0	3	6.2
1.5	179	37	20.1	4	57	25.3		46.61		13.99	4.01				m 41.4
2.0	185	34	34.5	5	6	7.5		45.52		9.98	− 1.88	18.8	2.0	3	47.6
2.5	191	30	54.8		11	30.7		45.01		8.10	+ 0.42				40.9
3.0	197	26	48.2		13	33.5		45.12		8.52	2.82	19.8	3.0	4	28.5
3.5	203	22	44.3	+ 5	12	15.0	14	45.89	54	11.34					41.4
4.0	209	19	14.5	5	7	35.6		47.35		16.67	+ 5.33	20.8	4.0	5	9.9
4.5	215	16	52.3	4	59	36.5		49.50		24.57	7.90				42.7
5.0	221	16	12.7		48	19.8		52.36		35.07	10.50	21.8	5.0	5	52.6
5.5	227	17	51.2		33	48.3	14	55.92	54	48.15	13.08				45.0
6.0	233	22	24.4	+ 4	16	6.0	15	0.17	55	3.76	15.61	22.8	6.0	6	37.6
6.5	239	30	28.3	3	55	18.4		5.08		21.78	+18.02				47.9
7.0	245	42	38.6		31	32.3		10.61	55	42.06	20.28	23.8	7.0	7	25.5
7.5	251	59	29.0	3	4	56.5		16.69	56	4.37	22.31				51.4
8.0	258	21	31.1	2	35	42.6		23.24		28.42	24.05	24.8	8.0	8	16.9
8.5	264	49	12.7	+ 2	4	4.8	15	30.17	56	53.85	25.43				54.7
9.0	271	22	57.1	1	30	20.7		37.36	57	20.25	+26.40	25.8	9.0	9	11.6
9.5	278	3	1.9	0	54	52.0		44.68	57	47.12	26.87				57.4
10.0	284	49	37.5	+ 0	18	4.2		51.99	58	13.93	26.81	26.8	10.0	10	9.0
10.5	291	42	46.3	− 0	19	32.9	15	59.11	58	40.07	26.14				58.6
11.0	298	42	21.4	− 0	57	25.3	16	5.88	59	4.93	24.86	27.8	11.0	11	7.6
11.5	305	48	6.1	1	34	55.5		12.14		27.91	+22.98				58.3
12.0	312	59	33.0	2	11	23.0		17.72	59	48.40	20.49	28.8	12.0	12	5.9
12.5	320	16	4.6	2	46	6.0		22.48	60	5.87	17.47				57.0
13.0	327	36	53.8	3	18	22.3		26.30		19.88	14.01	0.3	13.0	13	2.9
13.5	335	1	5.2	− 3	47	31.7	16	29.08	60	30.08	10.20				55.0
14.0	342	27	37.0	4	12	57.3		30.77		36.28	+ 6.20	1.3	14.0	13	57.9
14.5	349	55	23.5		34	7.4		31.35		38.43	+ 2.15				53.4
15.0	357	23	17.7	4	50	37.0		30.86		36.60	− 1.83	2.3	15.0	14	51.3
15.5	4	50	14.3	5	2	8.4		29.34		31.02	5.58				52.3
16.0	12	15	12.0	− 5	8	31.8	16	26.88	60	22.02	9.00	3.3	16.0	15	43.6
16.5	19	37	16.5		9	45.9		23.61	60	10.02	−12.00				52.0
17.0	26	55	41.6	5	5	56.1		19.65	59	55.48	14.54	4.3	17.0	16	35.6
17.5	34	9	50.3	4	57	14.9		15.14		38.91	16.57				52.4
18.0	41	19	15.2		43	59.7		10.20		20.79	18.12	5.3	18.0	17	28.0
18.5	48	23	38.9	− 4	26	32.4	16	4.98	59	1.61	19.18				53.2
19.0	55	22	52.3	4	5	18.3	15	59.57	58	41.78	−19.83	6.3	19.0	18	21.2
19.5	62	16	54.4	3	40	44.5		54.10		21.68	20.10				54.1
20.0	69	5	50.6	3	13	19.5		48.63	58	1.63	20.05	7.3	20.0	19	15.3
20.5	75	49	51.7	2	43	32.4		43.25	57	41.87	19.76				54.3
21.0	82	29	11.9	− 2	11	52.2	15	38.01	57	22.62	19.25	8.3	21.0	20	9.6
21.5	89	4	8.3	1	38	47.7		32.94	57	4.02	−18.60				53.9
22.0	95	34	59.2	1	4	46.9		28.07	56	46.15	17.87	9.3	22.0	21	3.5
22.5	102	2	3.2	− 0	30	17.3		23.42		29.08	17.07				52.5
23.0	108	25	38.8	+ 0	4	15.0		19.00	56	12.84	16.24	10.3	23.0	21	56.0
23.5	114	46	3.6	+ 0	38	24.9	15	14.80	55	57.45	15.39				50.3
24.0	121	3	33.6	1	11	48.4		10.84		42.89	−14.56	11.3	24.0	22	46.3
24.5	127	18	23.6	1	44	3.2		7.10		29.17	13.72				47.7
25.0	133	30	46.3	2	14	48.1		3.59		16.29	12.88	12.3	25.0	23	34.0
25.5	139	40	53.2	2	43	44.0	15	0.31	55	4.24	12.05				
26.0	145	48	54.4	+ 3	10	33.2	14	57.26	54	53.04	11.20	13.3	26.0	...	...
26.5	151	54	58.7		34	59.9		54.44		42.73	−10.31				45.4
27.0	157	59	14.6	3	56	50.3		51.89		33.34	9.39	14.3	27.0	0	19.4
27.5	164	1	49.8	4	15	52.8		49.60		24.95	8.39				43.2
28.0	170	2	52.6		31	57.4		47.61		17.64	7.31	15.3	28.0	1	2.6
28.5	176	2	31.9	+ 4	44	56.6	14	45.94	54	11.52	6.12				41.8
3 1.0	182	0	57.5	+ 4	54	44.4	14	44.62	54	6.68	− 4.84	16.3	1.0	1	44.4

月 日	黄經	黄緯	視半徑	地平視差	月齡	日	本初子午線 正中時
	° ′ ″	° ′ ″	′ ″	′ ″ ″	d		h m m
3 1.0	182 0 57.5	+ 4 54 44.4	14 44.62	54 6.68 − 3.41	16.3	1.0	1 44.4
1.5	187 58 21.1	5 1 17.0	43.70	3.27 1.85			41.0
2.0	193 54 56.0	4 32.1	43.19	1.42 − 0.16	17.3	2.0	2 25.4
2.5	199 50 58.0	4 29.2	43.15	1.26 + 1.67			41.1
3.0	205 46 45.1	5 1 9.1	43.60	2.93 3.63	18.3	3.0	3 6.5
3.5	211 42 38.2	+ 4 54 33.9	14 44.59	54 6.56			41.9
4.0	217 39 9.0	44 47.0	46.15	12.28 + 5.72	19.3	4.0	3 48.4
4.5	223 36 19.3	31 52.9	48.30	20.19 7.91			43.5
5.0	229 35 2.4	4 15 56.9	51.08	30.39 10.20	20.3	5.0	4 31.9
5.5	235 35 41.7	3 57 5.9	54.50	42.93 12.54 14.93			45.9
6.0	241 38 50.8	+ 3 35 27.3	14 58.57	54 57.86			54.3
6.5	247 45 4.9	3 11 10.2	15 3.28	55 15.17 +17.31	21.3	6.0	5 17.8
7.0	253 55 0.6	2 44 25.0	8.63	34.81 19.64 21.86	22.3	7.0	6 6.5
7.5	260 9 15.1	2 15 23.7	14.59	55 56.67 23.92			48.7
8.0	266 28 25.4	1 44 20.6	21.11	56 20.59 25.73	23.3	8.0	6 58.3
8.5	272 53 7.2	+ 1 11 32.2	15 28.12	56 46.32			51.8
9.0	279 23 53.6	0 37 18.1	35.54	57 13.57 +27.25 28.36	24.3	9.0	7 53.0
9.5	286 1 13.9	+ 0 2 0.9	43.27	57 41.93 29.00			54.7
10.0	292 45 32.0	− 0 33 53.2	51.17	58 10.93 29.08	25.3	10.0	8 49.7
10.5	299 37 4.4	1 9 54.3	15 59.09	58 40.01 28.54			56.7
11.0	306 35 59.0	− 1 45 29.0	16 6.87	59 8.55	26.3	11.0	9 47.3
11.5	313 42 12.5	2 20 0.4	14.30	59 35.82 +27.27			57.3
12.0	320 55 29.5	2 52 49.3	21.22	60 1.22 25.40	27.3	12.0	10 44.6
12.5	328 15 21.4	3 23 15.0	27.40	23.93 22.71			56.3
13.0	335 41 5.7	3 50 36.8	32.67	43.27 19.34 15.40	28.3	13.0	11 40.9
13.5	343 11 46.6	− 4 14 16.2	16 36.87	60 58.67			55.2
14.0	350 46 16.1	33 38.4	39.85	61 9.62 +10.95 6.17	29.3	14.0	12 36.1
14.5	358 23 16.8	48 14.7	41.53	15.79 + 1.23			54.3
15.0	6 1 25.2	4 57 44.1	41.87	17.02 − 3.67	0.8	15.0	13 30.4
15.5	13 39 15.2	5 1 54.3	40.87	13.35 8.37			54.1
16.0	21 15 22.6	− 5 0 42.6	16 38.59	61 4.98	1.8	16.0	14 24.5
16.5	28 48 28.9	4 54 15.4	35.13	60 52.28 −12.70 16.51			54.3
17.0	36 17 24.9	42 47.8	30.63	35.77 19.73	2.8	17.0	15 18.8
17.5	43 41 12.5	26 41.7	25.25	60 16.04 22.30			55.0
18.0	50 59 7.0	4 6 25.0	19.18	59 53.74 24.19	3.8	18.0	16 13.8
18.5	58 10 37.3	− 3 42 28.9	16 12.59	59 29.55			55.6
19.0	65 15 25.4	3 15 27.1	16 5.66	59 4.12 −25.43 26.08	4.8	19.0	17 9.4
19.5	72 13 25.3	2 45 53.8	15 58.56	58 38.04 26.17			55.6
20.0	79 4 41.4	2 14 23.0	51.43	58 11.87 25.80	5.8	20.0	18 5.0
20.5	85 49 27.0	1 41 27.6	44.40	57 46.07 25.05			54.8
21.0	92 28 1.9	− 1 7 38.4	15 37.57	57 21.02	6.8	21.0	18 59.8
21.5	99 0 51.0	− 0 33 24.6	31.04	56 57.04 −23.98 22.69			53.2
22.0	105 28 22.4	+ 0 0 47.1	24.85	34.35 21.23	7.8	22.0	19 53.0
22.5	111 51 6.2	0 34 32.0	19.07	56 13.12 19.66			50.8
23.0	118 9 32.5	1 7 27.2	13.72	55 53.46 18.02	8.8	23.0	20 43.8
23.5	124 24 11.6	+ 1 39 12.1	15 8.81	55 35.44			48.1
24.0	130 35 32.2	2 9 27.5	4.34	55 19.06 −16.38 14.73	9.8	24.0	21 31.9
24.5	136 44 1.4	2 37 56.0	15 0.33	55 4.33 13.13			45.6
25.0	142 50 3.8	3 4 21.8	14 56.75	54 51.20 11.57	10.8	25.0	22 17.5
25.5	148 54 1.8	28 30.6	53.60	39.63 10.08			43.5
26.0	154 56 15.5	+ 3 50 9.3	14 50.85	54 29.55	11.8	26.0	23 1.0
26.5	160 57 1.9	4 9 6.7	48.50	20.92 − 8.63 7.25			41.9
27.0	166 56 36.4	25 12.9	46.53	13.67 5.91	12.8	27.0	23 42.9
27.5	172 55 12.1	38 19.7	44.92	7.76 4.59			
28.0	178 53 0.4	48 20.4	43.67	54 3.17 3.31	13.8	28.0	... ... 41.1
28.5	184 50 11.5	+ 4 55 10.0	14 42.76	53 59.86			
29.0	190 46 55.1	58 45.5	42.21	57.83 − 2.03	14.8	29.0	0 24.0
29.5	196 43 20.4	59 5.1	42.02	57.11 − 0.72 + 0.62			40.9
30.0	202 39 37.2	56 9.2	42.19	57.73 2.00	15.8	30.0	1 4.9
30.5	208 35 55.7	49 59.6	42.73	53 59.73 3.45			41.6
31.0	214 32 27.9	+ 4 40 39.9	14 43.67	54 3.18	16.8	31.0	1 46.5
31.5	220 29 27.2	28 15.1	45.02	8.15 + 4.97 + 6.58			42.8
4 1.0	226 27 9.3	+ 4 12 51.4	14 46.82	54 14.73	17.8	1.0	2 29.3

月 日	黄經	黄緯	視半徑	地平視差	月齡	日	本初子午線 正中時
	° ′ ″	° ′ ″	′ ″	′ ″ ″	d		h m m
4 1.0	226 27 9.3	+ 4 12 51.4	14 46.82	54 14.73			2 29.3
1.5	232 25 52.3	3 54 37.1	49.07	22.99 + 8.26	17.8	1.0	44.8
2.0	238 25 56.6	33 41.2	51.80	33.03 10.04			3 14.1
2.5	244 27 45.8	3 10 14.2	55.04	44.91 11.88	18.8	2.0	47.3
3.0	250 31 45.9	2 44 27.9	14 58.80	54 58.71 13.80 15.77			4 1.4
3.5	256 38 25.4	+ 2 16 35.4	15 3.10	55 14.48	19.8	3.0	49.9
4.0	262 48 15.3	1 46 51.3	7.93	32.23 +17.75			
4.5	269 1 48.2	1 15 31.6	13.30	55 51.93 19.70	20.8	4.0	4 51.3
5.0	275 19 38.4	0 42 54.3	19.19	56 13.55 21.62			52.3
5.5	281 42 20.1	+ 0 9 19.2	25.56	56 36.94 23.39 25.01	21.8	5.0	5 43.6
6.0	288 10 27.3	− 0 24 51.9	15 32.37	57 1.95			54.3
6.5	294 44 32.3	0 59 14.5	39.56	28.31 +26.36	22.8	6.0	6 37.9
7.0	301 25 4.1	1 33 21.5	47.02	57 55.71 27.40			55.5
7.5	308 12 26.7	2 6 43.5	15 54.65	58 23.73 28.02	23.8	7.0	7 33.4
8.0	315 6 57.5	2 38 48.1	16 2.32	58 51.87 28.14 27.70	24.8	8.0	8 29.0
8.5	322 8 45.2	− 3 9 1.1	16 9.87	59 19.57			55.6
9.0	329 17 47.7	3 36 46.7	17.12	59 46.17 +26.60	25.8	9.0	9 24.2
9.5	336 33 50.7	4 1 28.6	23.88	60 11.00 24.83			55.2
10.0	343 56 25.8	22 30.9	29.96	33.32 22.32	26.8	10.0	10 18.8
10.5	351 24 50.6	39 20.9	35.17	60 52.43 19.11 15.26			54.6
11.0	358 58 8.6	− 4 51 29.4	16 39.33	61 7.69			54.2
11.5	6 35 10.0	4 58 34.2	42.28	18.53 +10.84	27.8	11.0	11 13.0
12.0	14 14 35.1	5 0 20.2	43.92	24.55 6.02			54.4
12.5	21 54 57.3	4 56 41.9	44.18	25.50 + 0.95	28.8	12.0	12 7.4
13.0	29 34 46.6	47 43.1	43.04	21.32 − 4.18 9.16	0.5	13.0	13 2.6
13.5	37 12 35.2	− 4 33 37.5	16 40.55	61 12.16			55.2
14.0	44 47 0.5	4 14 47.2	36.78	60 58.34 −13.82	1.5	14.0	13 58.9
14.5	52 16 49.5	3 51 41.9	31.88	40.35 17.99			56.3
15.0	59 41 1.3	3 24 56.3	26.00	60 18.79 21.56	2.5	15.0	14 56.3
15.5	66 58 48.6	2 55 8.9	19.35	59 54.35 24.44 26.59			57.4
16.0	74 9 38.7	− 2 22 59.3	16 12.10	59 27.76			58.0
16.5	81 13 12.6	1 49 6.9	16 4.46	58 59.73 −28.03	3.5	16.0	15 54.3
17.0	88 9 24.4	1 14 9.6	15 56.63	30.96 28.77			57.3
17.5	94 58 19.4	0 38 42.6	48.76	58 2.08 28.88	4.5	17.0	16 51.6
18.0	101 40 12.1	− 0 3 18.1	41.01	57 33.65 28.43 27.51	5.5	18.0	17 47.2
18.5	108 15 24.7	+ 0 31 35.0	15 33.52	57 6.14			55.6
19.0	114 44 24.9	1 5 31.2	26.38	56 39.94 −26.20	6.5	19.0	18 39.9
19.5	121 7 44.5	1 38 8.1	19.68	56 15.36 24.58			52.7
20.0	127 25 57.4	2 9 6.3	13.49	55 52.62 22.74	7.5	20.0	19 29.5
20.5	133 39 38.6	2 38 8.6	7.84	31.90 20.72 18.62			49.6
21.0	139 49 23.4	+ 3 5 0.5	15 2.77	55 13.28			46.6
21.5	145 55 46.3	29 29.1	14 58.28	54 56.81 −16.47	8.5	21.0	20 16.1
22.0	151 59 20.0	3 51 22.9	54.39	42.51 14.30			44.0
22.5	158 0 35.4	4 10 32.4	51.07	30.34 12.17	9.5	22.0	21 0.1
23.0	164 0 1.3	26 49.2	48.32	20.25 10.09 8.09	10.5	23.0	21 42.3
23.5	169 58 3.9	+ 4 40 6.1	14 46.12	54 12.16			42.2
24.0	175 55 6.5	50 17.1	44.43	5.96 − 6.20	11.5	24.0	22 23.3
24.5	181 51 30.1	4 57 17.5	43.24	54 1.58 4.38			41.0
25.0	187 47 33.2	5 1 4.1	42.51	53 58.90 2.68	12.5	25.0	23 4.1
25.5	193 43 31.9	5 1 34.8	42.21	57.82 − 1.08 + 0.43			40.8
26.0	199 39 40.2	+ 4 58 49.2	14 42.33	53 58.25			41.2
26.5	205 36 10.6	52 48.3	42.83	54 0.11 + 1.86	13.5	26.0	23 45.3
27.0	211 33 14.2	43 35.0	43.71	3.32 3.21			
27.5	217 31 1.5	31 13.5	44.93	7.81 4.49	14.5	27.0	... ... 42.5
28.0	223 29 42.2	4 15 50.0	46.50	13.56 5.75 6.97	15.5	28.0	0 27.8
28.5	229 29 26.9	+ 3 57 32.7	14 48.40	54 20.53			44.3
29.0	235 30 26.0	36 30.9	50.63	28.71 + 8.18	16.5	29.0	1 12.1
29.5	241 32 51.5	3 12 56.0	53.18	38.10 9.39			46.6
30.0	247 36 56.5	2 47 1.2	56.08	54 48.72 10.62	17.5	30.0	1 58.7
30.5	253 42 56.0	2 19 0.9	14 59.31	55 0.59 11.87 +13.17			49.2
5 1.0	259 51 7.0	+ 1 49 11.4	15 2.90	55 13.76	18.5	1.0	2 47.9

月 日	黄經			黄緯			視半徑	地平視差			月齡	日	本初子午線正中時	
	°	′	″	°	′	″	′ ″	′ ″			d		h m	m
5 1.0	259	51	7.0	+ 1	49	11.4	15 2.90	55 13.76			18.5	1.0	2 47.9	
1.5	266	1	48.5	1	17	50.2	6.84	28.24	+14.48					51.4
2.0	272	15	21.5	0	45	16.5	11.15	55 44.06	15.82		19.5	2.0	3 39.3	
2.5	278	32	9.1	+ 0	11	50.8	15.83	56 1.22	17.16					53.2
3.0	284	52	35.7	− 0	22	5.0	20.87	19.72	18.50		20.5	3.0	4 32.5	
									19.79					54.0
3.5	291	17	7.3	− 0	56	7.3	15 26.26	56 39.51						
4.0	297	46	9.7	1	29	51.2	31.98	57 0.51	+21.00		21.5	4.0	5 26.5	
4.5	304	20	8.6	2	2	50.4	38.00	22.59	22.08					54.0
5.0	310	59	28.0	2	34	36.9	44.26	57 45.56	22.97		22.5	5.0	6 20.5	
5.5	317	44	29.2	3	4	41.7	50.69	58 9.18	23.62					53.5
									23.95					
6.0	324	35	29.1	− 3	32	34.4	15 57.22	58 33.13			23.5	6.0	7 14.0	
6.5	331	32	38.6	3	57	44.3	16 3.73	58 57.02	+23.89					52.8
7.0	338	36	1.2	4	19	40.6	10.10	59 20.40	23.38		24.5	7.0	8 6.8	
7.5	345	45	31.3		37	53.2	16.18	59 42.74	22.34					52.4
8.0	353	0	52.5	4	51	54.3	21.83	60 3.47	20.73		25.5	8.0	8 59.2	
									18.55					52.6
8.5	0	21	37.2	− 5	1	19.0	16 26.88	60 22.02						
9.0	7	47	5.9		5	47.6	31.17	37.77	+15.75		26.5	9.0	9 51.8	
9.5	15	16	27.5	5	5	5.9	34.55	50.16	12.39					53.7
10.0	22	48	40.6	4	59	7.7	36.88	60 58.72	8.56		27.5	10.0	10 45.5	
10.5	30	22	35.4		47	54.8	38.06	61 3.03	+ 4.31					55.3
									− 0.17					
11.0	37	56	56.8	− 4	31	38.0	16 38.01	61 2.86			28.5	11.0	11 40.8	
11.5	45	30	27.3	4	10	36.9	36.71	60 58.10	− 4.76					57.3
12.0	53	1	50.4	3	45	18.5	34.18	48.82	9.28		0.2	12.0	12 38.1	
12.5	60	29	54.7	3	16	17.2	30.49	35.24	13.58					59.0
13.0	67	53	35.8	2	44	11.5	25.73	60 17.77	17.47		1.2	13.0	13 37.1	
									20.87					59.5
13.5	75	11	59.6	− 2	9	43.4	16 20.04	59 56.90						
14.0	82	24	23.2	1	33	35.4	13.59	33.24	−23.66		2.2	14.0	14 36.6	
14.5	89	30	15.5	0	56	29.4	16 6.56	59 7.43	25.81					58.4
15.0	96	29	17.8	− 0	19	5.2	15 59.13	58 40.17	27.26		3.2	15.0	15 35.0	
15.5	103	21	22.3	+ 0	18	0.9	51.48	58 12.09	28.08					55.9
									28.25					
16.0	110	6	31.4	+ 0	54	16.2	15 43.79	57 43.84			4.2	16.0	16 30.9	
16.5	116	44	56.7	1	29	12.5	36.20	57 15.98	−27.86					52.4
17.0	123	16	56.9	2	2	25.3	28.85	56 49.01	26.97		5.2	17.0	17 23.3	
17.5	129	42	56.3	2	33	34.4	21.86	56 23.36	25.65					48.8
18.0	136	3	24.3	3	2	22.8	15.33	55 59.38	23.98		6.2	18.0	18 12.1	
									22.02					45.5
18.5	142	18	52.7	+ 3	28	36.6	15 9.33	55 37.36						
19.0	148	29	55.7	3	52	4.7	15 3.92	55 17.49	−19.87		7.2	19.0	18 57.6	
19.5	154	37	8.7	4	12	38.1	14 59.13	54 59.93	17.56					43.0
20.0	160	41	6.7		30	9.5	55.00	44.75	15.18		8.2	20.0	19 40.6	
20.5	166	42	24.8		44	33.1	51.52	32.01	12.74					41.4
									10.31					
21.0	172	41	36.7	+ 4	55	44.7	14 48.72	54 21.70			9.2	21.0	20 22.0	
21.5	178	39	14.8	5	3	40.6	46.56	13.79	− 7.91					40.7
22.0	184	35	49.5		8	18.7	45.04	8.22	5.57		10.2	22.0	21 2.7	
22.5	190	31	49.5		9	37.6	44.13	4.87	3.35					40.9
23.0	196	27	40.7		7	37.0	43.80	3.65	− 1.22		11.2	23.0	21 43.6	
									+ 0.78					42.0
23.5	202	23	46.9	+ 5	2	17.9	14 44.01	54 4.43			12.2	24.0	22 25.6	
24.0	208	20	29.7	4	53	42.1	44.73	7.06	+ 2.63					43.7
24.5	214	18	8.1		41	53.4	45.91	11.40	4.34		13.2	25.0	23 9.3	
25.0	220	16	59.0		26	56.8	47.52	17.30	5.90					46.2
25.5	226	17	17.3	4	8	58.9	49.51	24.61	7.31					
									8.57					
26.0	232	19	16.0	+ 3	48	8.3	14 51.84	54 33.18			14.2	26.0	23 55.5	
26.5	238	23	6.7	3	24	35.7	54.49	42.89	+ 9.71					
27.0	244	28	59.7	2	58	33.4	14 57.40	54 53.59	10.70		15.2	27.0	... ...	48.8
27.5	250	37	4.4		30	16.1	15 0.56	55 5.18	11.59					
28.0	256	47	29.8	2	0	0.5	3.94	17.57	12.39		16.2	28.0	0 44.3	
									13.09					51.3
28.5	263	0	24.6	+ 1	28	5.1	15 7.50	55 30.66						
29.0	269	15	57.7	0	54	50.5	11.25	44.39	+13.73		17.2	29.0	1 35.6	
29.5	275	34	18.5	+ 0	20	38.8	15.15	55 58.73	14.34					53.2
30.0	281	55	36.7	− 0	14	6.2	19.21	56 13.61	14.88		18.2	30.0	2 28.8	
30.5	288	20	3.1	0	48	59.2	23.40	29.02	15.41					54.0
									15.90					
31.0	294	47	48.5	− 1	23	34.1	15 27.74	56 44.92	+16.36		19.2	31.0	3 22.8	
31.5	301	19	4.9	1	57	23.5	32.19	57 1.28	+16.78					54.0
6 1.0	307	54	4.3	− 2	29	59.7	15 36.76	57 18.06			20.2	1.0	4 16.8	

月 日	黄經			黄緯			視半徑	地平視差			月齡	日	本初子午線正中時	
	°	′	″	°	′	″	′ ″	′ ″			d		h m	m
6 1.0	307	54	4.3	− 2	29	59.7	15 36.76	57 18.06			20.2	1.0	4 16.8	
1.5	314	32	58.1	3	0	54.3	41.44	35.21	+17.15					53.0
2.0	321	15	57.3		29	39.1	46.18	57 52.62	17.41		21.2	2.0	5 9.8	
2.5	328	3	11.3	3	55	46.1	50.97	58 10.19	17.57					51.9
3.0	334	54	46.9	4	18	47.9	15 55.75	27.76	17.57		22.2	3.0	6 1.7	
									17.37					50.8
3.5	341	50	47.7	− 4	38	18.5	16 0.49	58 45.13						
4.0	348	51	13.1	4	53	53.5	5.09	59 2.04	+16.91		23.2	4.0	6 52.5	
4.5	355	55	56.7	5	5	11.2	9.50	18.20	16.16					50.6
5.0	3	4	46.7		11	53.0	13.60	33.27	15.07		24.2	5.0	7 43.1	
5.5	10	17	23.8		13	44.7	17.31	46.87	13.60					51.2
									11.75					
6.0	17	33	21.8	− 5	10	37.0	16 20.51	59 58.62			25.2	6.0	8 34.3	
6.5	24	52	7.1	5	2	26.6	23.09	60 8.10	+ 9.48					52.7
7.0	32	12	59.2	4	49	16.6	24.96	14.94	6.84		26.2	7.0	9 27.0	
7.5	39	35	11.8		31	17.3	26.01	18.81	3.87					54.9
8.0	46	57	53.7	4	8	46.2	26.17	19.40	+ 0.59		27.2	8.0	10 21.9	
									− 2.84					57.4
8.5	54	20	10.8	− 3	42	7.5	16 25.40	60 16.56						
9.0	61	41	7.8	3	11	51.7	23.66	10.18	− 6.38		28.2	9.0	11 19.3	
9.5	68	59	50.4	2	38	34.4	20.97	60 0.31	9.87					59.3
10.0	76	15	27.1	2	2	55.0	17.37	59 47.09	13.22		29.2	10.0	12 18.6	
10.5	83	27	11.4	1	25	34.8	12.92	30.78	16.31					59.8
									19.02					
11.0	90	34	23.0	− 0	47	15.9	16 7.74	59 11.76			0.8	11.0	13 18.4	
11.5	97	36	28.7	− 0	8	39.4	16 1.94	58 50.45	−21.31					58.3
12.0	104	33	3.8	+ 0	29	36.0	15 55.65	27.37	23.08		1.8	12.0	14 16.7	
12.5	111	23	51.3	1	6	55.0	49.03	58 3.07	24.30					55.4
13.0	118	8	42.9	1	42	45.9	42.22	57 38.07	25.00		2.8	13.0	15 12.1	
									25.16					51.7
13.5	124	47	38.0	+ 2	16	41.6	15 35.36	57 12.91						
14.0	131	20	42.9	2	48	19.2	28.60	56 48.11	−24.80		3.8	14.0	16 3.8	
14.5	137	48	10.7	3	17	20.2	22.07	24.11	24.00					47.8
15.0	144	10	19.7	3	43	29.7	15.86	56 1.33	22.78		4.8	15.0	16 51.6	
15.5	150	27	32.9	4	6	36.2	10.08	55 40.13	21.20					44.8
									19.33					
16.0	156	40	17.1	+ 4	26	31.4	15 4.82	55 20.80			5.8	16.0	17 36.4	
16.5	162	49	2.0		43	9.2	15 0.13	55 3.59	−17.21					42.4
17.0	168	54	19.3	4	56	25.5	14 56.06	54 48.66	14.93		6.8	17.0	18 18.8	
17.5	174	56	42.3	5	6	18.0	52.66	36.17	12.49					41.1
18.0	180	56	45.1		12	45.4	49.94	26.19	9.98		7.8	18.0	18 59.9	
									7.43					40.7
18.5	186	55	2.0	+ 5	15	47.8	14 47.92	54 18.76						
19.0	192	52	7.0		15	26.1	46.59	13.89	− 4.87		8.8	19.0	19 40.6	
19.5	198	48	33.5		11	41.8	45.95	11.54	− 2.35					41.4
20.0	204	44	53.6	5	4	37.4	45.97	11.64	+ 0.10		9.8	20.0	20 22.0	
20.5	210	41	38.5	4	54	16.5	46.64	14.09	2.45					42.9
									4.66					
21.0	216	39	17.1	+ 4	40	43.5	14 47.91	54 18.75			10.8	21.0	21 4.9	
21.5	222	38	16.6		24	4.0	49.75	25.49	+ 6.74					45.2
22.0	228	39	2.0	4	4	25.1	52.10	34.12	8.63		11.8	22.0	21 50.1	
22.5	234	41	55.8	3	41	55.3	54.92	44.46	10.34					48.0
23.0	240	47	18.3	3	16	45.3	14 58.13	54 56.27	11.81		12.8	23.0	22 38.1	
									13.08					50.9
23.5	246	55	26.7	+ 2	49	7.6	15 1.70	55 9.35						
24.0	253	6	35.9	2	19	17.0	5.55	23.47	+14.12		13.8	24.0	23 29.0	
24.5	259	20	57.8	1	47	30.6	9.61	38.39	14.92					
25.0	265	38	41.8	1	14	8.2	13.83	55 53.88	15.49		14.8	25.0	... ...	53.4
25.5	271	59	54.5	0	39	31.8	18.15	56 9.73	15.85					
									15.99					
26.0	278	24	40.5	+ 0	4	5.7	15 22.51	56 25.72			15.8	26.0	0 22.4	
26.5	284	53	1.7	− 0	31	43.8	26.85	41.67	+15.95					54.8
27.0	291	24	57.9	1	7	28.2	31.14	56 57.41	15.74		16.8	27.0	1 17.2	
27.5	298	0	27.1	1	42	38.2	35.33	57 12.80	15.39					55.1
28.0	304	39	25.8	2	16	43.2	39.39	27.71	14.91		17.8	28.0	2 12.3	
									14.35					54.1
28.5	311	21	48.9	− 2	49	12.6	15 43.30	57 42.06						
29.0	318	7	30.1	3	19	36.0	47.04	57 55.78	+13.72		18.8	29.0	3 6.4	
29.5	324	56	22.0	3	47	23.8	50.59	58 8.82	13.04					52.6
30.0	331	48	16.2	4	12	8.2	53.95	21.14	12.32		19.8	30.0	3 59.0	
30.5	338	43	3.3		33	23.1	15 57.10	32.70	11.56					51.0
									+10.77					
7 1.0	345	40	33.0	− 4	50	45.5	16 0.03	58 43.47			20.8	1.0	4 50.0	

月 日	黄経			黄緯			視半径		地平視差			月齢	日	本初子午線 正中時	
	°	′	″	°	′	″	′	″	′	″	″	d		h m	m
7 1.0	345	40	33.0	− 4	50	45.5	16	0.03	58	43.47	+ 9.95	20.8	1.0	4 50.0	
1.5	352	40	33.5	5	3	55.3		2.74	58	53.42	9.05				50.0
2.0	359	42	52.4		12	36.5		5.21	59	2.47	8.09	21.8	2.0	5 40.0	
2.5	6	47	15.2		16	36.8		7.41		10.56	7.01				49.8
3.0	13	53	26.3		15	48.7		9.33		17.57	5.83	22.8	3.0	6 29.8	
3.5	21	1	8.1	− 5	10	9.7	16	10.91	59	23.40	+ 4.49				50.6
4.0	28	10	0.8	4	59	42.3		12.14		27.89	2.98	23.8	4.0	7 20.4	
4.5	35	19	42.9		44	34.3		12.95		30.87	+ 1.32				52.3
5.0	42	29	50.2		24	59.0		13.31		32.19	− 0.54	24.8	5.0	8 12.7	
5.5	49	39	57.0	4	1	15.1		13.16		31.65	2.53				54.7
6.0	56	49	35.6	− 3	33	46.0	16	12.47	59	29.12	− 4.66	25.8	6.0	9 7.4	
6.5	63	58	17.3	3	3	0.1		11.20		24.46	6.87				57.1
7.0	71	5	31.7	2	29	29.4		9.33		17.59	9.11	26.8	7.0	10 4.5	
7.5	78	10	49.0	1	53	49.2		6.85	59	8.48	11.34				58.6
8.0	85	13	39.3	1	16	36.6		3.76	58	57.14	13.45	27.8	8.0	11 3.1	
8.5	92	13	34.0	− 0	38	29.9	16	0.09	58	43.69	−15.42				58.7
9.0	99	10	6.8	− 0	0	7.5	15	55.89		28.27	17.15	28.8	9.0	12 1.8	
9.5	106	2	53.8	+ 0	37	53.9		51.22	58	11.12	18.60				56.9
10.0	112	51	34.6	1	14	59.4		46.15	57	52.52	19.71	0.4	10.0	12 58.7	
10.5	119	35	53.0	1	50	37.1		40.78		32.81	20.47				53.9
11.0	126	15	37.3	+ 2	24	18.8	15	35.21	57	12.34	−20.83	1.4	11.0	13 52.6	
11.5	132	50	40.3	2	55	40.0		29.53	56	51.51	20.82				50.2
12.0	139	20	59.9	3	24	20.3		23.86		30.69	20.40	2.4	12.0	14 42.8	
12.5	145	46	39.2	3	50	3.2		18.30	56	10.29	19.62				46.7
13.0	152	7	45.8	4	12	36.1		12.95	55	50.67	18.49	3.4	13.0	15 29.5	
13.5	158	24	32.0	+ 4	31	49.7	15	7.92	55	32.18	−17.05				43.9
14.0	164	37	14.7		47	37.8	15	3.27	55	15.13	15.31	4.4	14.0	16 13.4	
14.5	170	46	14.3	4	59	56.7	14	59.10	54	59.82	13.35				42.0
15.0	176	51	55.0	5	8	44.8		55.47		46.47	11.17	5.4	15.0	16 55.4	
15.5	182	54	43.6		14	2.5		52.42		35.30	8.83				41.0
16.0	188	55	9.9	+ 5	15	51.2	14	50.01	54	26.47	− 6.38	6.4	16.0	17 36.4	
16.5	194	53	45.5		14	13.8		48.28		20.09	3.83				41.1
17.0	200	51	3.5		9	13.8		47.23		16.26	− 1.24	7.4	17.0	18 17.5	
17.5	206	47	38.3	5	0	55.7		46.90		15.02	+ 1.35				42.0
18.0	212	44	4.8	4	49	24.4		47.26		16.37	3.92	8.4	18.0	18 59.5	
18.5	218	40	58.2	+ 4	34	46.0	14	48.33	54	20.29	+ 6.42				43.9
19.0	224	38	53.2	4	17	7.1		50.08		26.71	8.81	9.4	19.0	19 43.4	
19.5	230	38	24.0	3	56	35.3		52.48		35.52	11.07				46.6
20.0	236	40	3.7		33	19.6		55.50		46.59	13.14	10.4	20.0	20 30.0	
20.5	242	44	23.2	3	7	30.1	14	59.08	54	59.73	14.99				49.5
21.0	248	51	51.9	+ 2	39	19.0	15	3.16	55	14.72	+16.60	11.4	21.0	21 19.5	
21.5	255	2	56.1	2	9	0.4		7.68		31.32	17.93				52.6
22.0	261	17	59.0	1	36	50.5		12.57	55	49.25	18.93	12.4	22.0	22 12.1	
22.5	267	37	20.0	1	3	8.4		17.73	56	8.18	19.61				54.9
23.0	274	1	14.4	+ 0	28	15.6		23.07		27.79	19.93	13.4	23.0	23 7.0	
23.5	280	29	52.7	− 0	7	23.6	15	28.50	56	47.72	+19.88				
24.0	287	3	20.5	0	43	21.8		33.92	57	7.60	19.50	14.4	24.0	... ...	56.0
24.5	293	41	37.8	1	19	9.8		39.23		27.10	18.75				
25.0	300	24	39.2	1	54	15.9		44.33	57	45.85	17.69	15.4	25.0	0 3.0	
25.5	307	12	13.8	2	28	7.1		49.15	58	3.54	16.34				55.7
26.0	314	4	5.3	− 3	0	9.8	15	53.61	58	19.88	+14.76	16.4	26.0	0 58.7	
26.5	320	59	52.5		29	50.5	15	57.63		34.64	12.99				54.4
27.0	327	59	10.2	3	56	37.2	16	1.17		47.63	11.09	17.4	27.0	1 53.1	
27.5	335	1	29.5	4	19	59.7		4.19	58	58.72	9.14				52.7
28.0	342	6	19.0		39	31.7		6.68	59	7.86	7.16	18.4	28.0	2 45.8	
28.5	349	13	5.8	− 4	54	50.3	16	8.63	59	15.02	+ 5.22				51.2
29.0	356	21	16.8	5	5	37.9		10.05		20.24	3.35	19.4	29.0	3 37.0	
29.5	3	30	19.6		11	41.9		10.96		23.59	+ 1.59				50.3
30.0	10	39	43.1		12	55.5		11.40		25.18	− 0.04	20.4	30.0	4 27.3	
30.5	17	48	59.2		9	17.5		11.39		25.14	1.56				50.3
31.0	24	57	41.8	− 5	0	52.2	16	10.96	59	23.58	− 2.94	21.4	31.0	5 17.6	
31.5	32	5	28.6	4	47	49.1		10.16		20.64	− 4.22				51.3
8 1.0	39	12	0.3	− 4	30	22.7	16	9.01	59	16.42		22.4	1.0	6 8.9	

月 日	黄経			黄緯			視半径		地平視差			月齢	日	本初子午線 正中時	
	°	′	″	°	′	″	′	″	′	″	″	d		h m	m
8 1.0	39	12	0.3	− 4	30	22.7	16	9.01	59	16.42	− 5.40	22.4	1.0	6 8.9	
1.5	46	17	0.7	4	8	52.0		7.54		11.02	6.51				53.1
2.0	53	20	16.1	3	43	39.8		5.77	59	4.51	7.57	23.4	2.0	7 2.0	
2.5	60	21	35.2	3	15	12.0		3.70	58	56.94	8.59				55.0
3.0	67	20	48.7	2	43	57.6	16	1.36		48.35	9.60	24.4	3.0	7 57.0	
3.5	74	17	47.9	− 2	10	27.8	15	58.75	58	38.75					56.8
4.0	81	12	25.1	1	35	14.8		55.86		28.15	−10.60	25.4	4.0	8 53.8	
4.5	88	4	32.9	0	58	52.5		52.71		16.58	11.57				57.5
5.0	94	54	3.6	− 0	21	54.5		49.29	58	4.05	12.53	26.4	5.0	9 51.3	
5.5	101	40	49.3	+ 0	15	5.7		45.63	57	50.59	13.46				56.7
6.0	108	24	42.0	+ 0	51	35.6	15	41.73	57	36.28	14.31	27.4	6.0	10 48.0	
6.5	115	5	33.6	1	27	4.2		37.62		21.19	−15.09				54.5
7.0	121	43	15.8	2	1	2.9		33.33	57	5.44	15.75	28.4	7.0	11 42.5	
7.5	128	17	41.0	2	33	5.5		28.90	56	49.18	16.26				51.4
8.0	134	48	42.7	3	2	48.8		24.38		32.60	16.58	29.4	8.0	12 33.9	
8.5	141	16	15.6	+ 3	29	52.7	15	19.82	56	15.88	16.72				48.2
9.0	147	40	16.3	3	54	1.0		15.30	55	59.26	−16.62	1.0	9.0	13 22.1	
9.5	154	0	44.0	4	15	0.2		10.86		42.98	16.28				45.2
10.0	160	17	40.4		32	40.7		6.59		27.29	15.69	2.0	10.0	14 7.3	
10.5	166	31	10.6		46	55.6	15	2.54	55	12.45	14.84				42.9
11.0	172	41	23.1	+ 4	57	40.9	14	58.80	54	58.72	13.73	3.0	11.0	14 50.2	
11.5	178	48	29.6	5	4	55.2		55.43		46.34	−12.38				41.6
12.0	184	52	45.6		8	39.2		52.49		35.55	10.79	4.0	12.0	15 31.8	
12.5	190	54	30.2		8	55.3		50.04		26.55	9.00				41.0
13.0	196	54	5.6	5	5	47.6		48.13		19.57	6.98	5.0	13.0	16 12.8	
13.5	202	51	57.3	+ 4	59	21.2	14	46.82	54	14.74	4.83				41.5
14.0	208	48	33.9		49	42.3		46.14		12.23	− 2.51	6.0	14.0	16 54.3	
14.5	214	44	26.2		36	57.8		46.11		12.15	− 0.08				42.7
15.0	220	40	7.9		21	15.3		46.78		14.59	+ 2.44	7.0	15.0	17 37.0	
15.5	226	36	13.9	4	2	43.2		48.14		19.59	5.00				44.9
16.0	232	33	20.8	+ 3	41	30.4	14	50.21	54	27.19	7.60	8.0	16.0	18 21.9	
16.5	238	32	6.2	3	17	46.7		52.98		37.34	+10.15				47.7
17.0	244	33	8.0	2	51	42.9	14	56.42	54	49.99	12.65	9.0	17.0	19 9.6	
17.5	250	37	4.1	2	23	31.3	15	0.52	55	5.04	15.05				50.6
18.0	256	44	31.3	1	53	25.1		5.23		22.31	17.27	10.0	18.0	20 0.2	
18.5	262	56	5.1	+ 1	21	40.0	15	10.49	55	41.61	19.30				53.5
19.0	269	12	18.3	0	48	33.3		16.23	56	2.68	+21.07	11.0	19.0	20 53.7	
19.5	275	33	40.4	+ 0	14	25.0		22.36		25.20	22.52				55.4
20.0	282	0	36.6	− 0	20	22.2		28.80	56	48.81	23.61	12.0	20.0	21 49.1	
20.5	288	33	26.6	0	55	22.9		35.41	57	13.08	24.27				56.3
21.0	295	12	23.6	− 1	30	8.8	15	42.07	57	37.55	24.47	13.0	21.0	22 45.4	
21.5	301	57	33.0	2	4	8.8		48.67	58	1.74	+24.19				55.8
22.0	308	48	52.1	2	36	50.1	15	55.03		25.11	23.37	14.0	22.0	23 41.2	
22.5	315	46	9.0	3	7	37.9	16	1.04	58	47.17	22.06				
23.0	322	49	2.0	3	35	56.9		6.56	59	7.41	20.24	15.0	23.0	... ...	54.6
23.5	329	57	0.4	− 4	1	13.0	16	11.45	59	25.37	17.96				
24.0	337	9	24.7		22	53.3		15.61		40.66	+15.29	16.0	24.0	0 35.8	
24.5	344	25	27.8		40	29.2		18.97	59	52.97	12.31				53.2
25.0	351	44	16.9	4	53	36.3		21.45	60	2.09	9.12	17.0	25.0	1 29.0	
25.5	359	4	55.3	5	1	56.2		23.04		7.91	5.82				52.1
26.0	6	26	24.9	− 5	5	17.5	16	23.73	60	10.45	+ 2.54	18.0	26.0	2 21.1	
26.5	13	47	48.8	5	3	36.2		23.55		9.79	− 0.66				51.7
27.0	21	8	13.4	4	56	55.2		22.56	60	6.14	3.65	19.0	27.0	3 12.8	
27.5	28	26	50.4		45	24.7		20.82	59	59.77	6.37				52.1
28.0	35	42	58.4		29	20.8		18.43		51.00	8.77	20.0	28.0	4 4.9	
28.5	42	56	3.5	− 4	9	5.2	16	15.49	59	40.19	10.81				53.3
29.0	50	5	40.1	3	45	3.6		12.08		27.68	−12.51	21.0	29.0	4 58.2	
29.5	57	11	30.7	3	17	44.9		8.31	59	13.84	13.84				54.7
30.0	64	13	24.5	2	47	40.3		4.26	58	58.99	14.85	22.0	30.0	5 52.9	
30.5	71	11	17.6	2	15	22.1	16	0.02		43.42	15.57				56.2
31.0	78	5	11.1	− 1	41	23.0	15	55.65	58	27.39	16.03	23.0	31.0	6 49.1	
31.5	84	55	10.1	1	6	15.7		51.21	58	11.09	−16.30				56.8
9 1.0	91	41	22.6	− 0	30	32.3	15	46.75	57	54.70	−16.39	24.0	1.0	7 45.9	

月 日	黄経			黄緯			視半径		地平視差			月齢	日	本初子午線 正中時	
	°	′	″	°	′	″	′	″	′	″	″	d		h m	m
9 1.0	91	41	22.6	− 0	30	32.3	15	46.75	57	54.70	−16.35	24.0	1.0	7 45.9	
1.5	98	23	58.1	+ 0	5	16.5		42.29		38.35	16.23				56.1
2.0	105	3	6.7	0	40	40.8		37.87		22.12	16.03	25.0	2.0	8 42.0	
2.5	111	38	58.5	1	15	12.8		33.50	57	6.09	15.80				54.4
3.0	118	11	42.7	1	48	26.2		29.20	56	50.29	15.52	26.0	3.0	9 36.4	
3.5	124	41	27.4	+ 2	19	56.9	15	24.97	56	34.77					51.7
4.0	131	8	19.2	2	49	23.0		20.83		19.56	−15.21	27.0	4.0	10 28.1	
4.5	137	32	23.3	3	16	25.1		16.78	56	4.70	14.86				48.7
5.0	143	53	43.5	3	40	46.0		12.84	55	50.24	14.46	28.0	5.0	11 16.8	
5.5	150	12	22.7	4	2	11.6		9.02		36.23	14.01				45.8
											13.48				
6.0	156	28	23.0	+ 4	20	29.9	15	5.35	55	22.75		29.0	6.0	12 2.6	
6.5	162	41	46.6		35	32.2	15	1.85	55	9.89	−12.86				43.5
7.0	168	52	36.0		47	12.2	14	58.54	54	57.75	12.14	0.4	7.0	12 46.1	
7.5	175	0	54.7	4	55	26.3		55.46		46.47	11.28				41.9
8.0	181	6	47.7	5	0	13.1		52.66		36.17	10.30	1.4	8.0	13 28.0	
											9.15				41.2
8.5	187	10	22.1	+ 5	1	33.7	14	50.16	54	27.02					
9.0	193	11	47.3	4	59	31.1		48.02		19.16	− 7.86	2.4	9.0	14 9.2	
9.5	199	11	15.4		54	10.0		46.29		12.78	6.38				41.2
10.0	205	9	1.8		45	36.6		44.99		8.02	4.76	3.4	10.0	14 50.4	
10.5	211	5	24.6		33	58.5		44.18		5.05	2.97				42.0
											− 1.02				
11.0	217	0	45.8	+ 4	19	24.1	14	43.90	54	4.03		4.4	11.0	15 32.4	
11.5	222	55	30.0	4	2	3.1		44.19		5.10	+ 1.07				43.7
12.0	228	50	5.2	3	42	5.6		45.09		8.40	3.30	5.4	12.0	16 16.1	
12.5	234	45	2.4	3	19	42.5		46.62		14.02	5.62				45.9
13.0	240	40	55.3	2	55	5.4		48.81		22.06	8.04	6.4	13.0	17 2.0	
											10.51				48.6
13.5	246	38	19.6	+ 2	28	26.6	14	51.68	54	32.57					
14.0	252	37	53.3	1	59	59.1		55.22	54	45.58	+13.01	7.4	14.0	17 50.6	
14.5	258	40	15.8	1	29	57.3	14	59.44	55	1.07	15.49				51.2
15.0	264	46	7.1	0	58	36.3	15	4.32		18.97	17.90	8.4	15.0	18 41.8	
15.5	270	56	7.7	+ 0	26	13.4		9.83	55	39.19	20.22				53.5
											22.35				
16.0	277	10	56.6	− 0	6	53.0	15	15.92	56	1.54		9.4	16.0	19 35.3	
16.5	283	31	11.6	0	40	22.1		22.52		25.79	+24.25				54.9
17.0	289	57	27.1	1	13	50.7		29.57	56	51.64	25.85	10.4	17.0	20 30.2	
17.5	296	30	12.8	1	46	53.0		36.94	57	18.70	27.06				55.4
18.0	303	9	53.1	2	19	1.1		44.52	57	46.54	27.84	11.4	18.0	21 25.6	
											28.09				55.0
18.5	309	56	43.9	− 2	49	44.3	15	52.18	58	14.63					
19.0	316	50	52.6	3	18	29.9	15	59.74	58	42.39	+27.76	12.4	19.0	22 20.6	
19.5	323	52	15.0	3	44	44.2	16	7.04	59	9.18	26.79				54.1
20.0	331	0	35.7	4	7	52.9		13.89		34.34	25.16	13.4	20.0	23 14.7	
20.5	338	15	25.8		27	22.9		20.13	59	57.22	22.88				
											19.97				
21.0	345	36	4.1	− 4	42	43.3	16	25.57	60	17.19		14.4	21.0	... ...	53.5
21.5	353	1	36.7		53	28.1		30.06		33.69	+16.50				
22.0	0	30	59.5		59	16.5		33.49		46.25	12.56	15.4	22.0	0 8.2	
22.5	8	3	0.3		59	55.5		35.75		54.55	8.30				53.2
23.0	15	36	21.9		55	20.2		36.79		58.40	+ 3.85	16.4	23.0	1 1.4	
											− 0.61				53.6
23.5	23	9	45.9	− 4	45	34.7	16	36.63	60	57.79					
24.0	30	41	56.1		30	51.8		35.28		52.85	− 4.94	17.4	24.0	1 55.0	
24.5	38	11	42.2	4	11	31.8		32.84		43.87	8.98				54.7
25.0	45	38	2.4	3	48	2.4		29.40		31.27	12.60	18.4	25.0	2 49.7	
25.5	53	0	5.4	3	20	55.7		25.11	60	15.53	15.74				56.1
											18.32				
26.0	60	17	11.7	− 2	50	47.7	16	20.12	59	57.21		19.4	26.0	3 45.8	
26.5	67	28	53.3	2	18	16.1		14.59		36.90	−20.31				57.4
27.0	74	34	54.0	1	43	58.8		8.66	59	15.14	21.76	20.4	27.0	4 43.2	
27.5	81	35	7.4	1	8	33.1	16	2.49	58	52.48	22.66				57.8
28.0	88	29	36.2	− 0	32	34.4	15	56.20		29.40	23.08	21.4	28.0	5 41.0	
											23.08				57.0
28.5	95	18	30.2	+ 0	3	23.9	15	49.91	58	6.32					
29.0	102	2	4.2	0	38	51.4		43.72	57	43.60	−22.72	22.4	29.0	6 38.0	
29.5	108	40	37.2	1	13	20.1		37.70		21.51	22.09				55.1
30.0	115	14	30.4	1	46	25.0		31.92	57	0.28	21.23	23.4	30.0	7 33.1	
30.5	121	44	5.9	2	17	43.6		26.41	56	40.05	20.23				52.2
											−19.10				
10 1.0	128	9	46.0	+ 2	46	56.2	15	21.21	56	20.95		24.4	1.0	8 25.3	

月 日	黄経			黄緯			視半径		地平視差			月齢	日	本初子午線 正中時	
	°	′	″	°	′	″	′	″	′	″	″	d		h m	m
10 1.0	128	9	46.0	+ 2	46	56.2	15	21.21	56	20.95	−17.91	24.4	1.0	8 25.3	
1.5	134	31	52.1	3	13	45.3		16.33	56	3.04	16.70				49.0
2.0	140	50	44.1		37	55.8		11.78	55	46.34	15.47	25.4	2.0	9 14.3	
2.5	147	6	40.2	3	59	15.0		7.56		30.87	14.27				46.1
3.0	153	19	56.3	4	17	32.0		3.67		16.60	13.08	26.4	3.0	10 0.4	
3.5	159	30	46.4	+ 4	32	38.4	15	0.11	55	3.52					43.7
4.0	165	39	22.5		44	27.9	14	56.86	54	51.61	−11.91	27.4	4.0	10 44.1	
4.5	171	45	54.9		52	55.9		53.93		40.84	10.77				42.0
5.0	177	50	32.4		58	0.3		51.30		31.19	9.65	28.4	5.0	11 26.1	
5.5	183	53	22.9		59	41.0		48.98		22.67	8.52				41.1
											7.38				
6.0	189	54	33.9	+ 4	57	59.5	14	46.97	54	15.29		29.4	6.0	12 7.2	
6.5	195	54	13.0		52	59.4		45.28		9.09	− 6.20				41.0
7.0	201	52	28.3		44	46.3		43.92		4.11	4.98	0.8	7.0	12 48.2	
7.5	207	49	29.3		33	27.2		42.92	54	0.41	3.70				41.6
8.0	213	45	26.9		19	10.4		42.28	53	58.08	2.33	1.8	8.0	13 29.8	
											− 0.88				43.0
8.5	219	40	34.0	+ 4	2	6.0	14	42.04	53	57.20					
9.0	225	35	6.3	3	42	24.8		42.23	53	57.88	+ 0.68	2.8	9.0	14 12.8	
9.5	231	29	21.5	3	20	19.0		42.87	54	0.23	2.35				44.9
10.0	237	23	40.8	2	56	1.3		44.00		4.37	4.14	3.8	10.0	14 57.7	
10.5	243	18	27.9		29	45.6		45.64		10.41	6.04				47.2
											8.04				
11.0	249	14	9.5	+ 2	1	46.0	14	47.83	54	18.45		4.8	11.0	15 44.9	
11.5	255	11	15.4	1	32	18.0		50.59		28.59	+10.14				49.4
12.0	261	10	18.0	1	1	37.3		53.95		40.92	12.33	5.8	12.0	16 34.3	
12.5	267	11	52.1	+ 0	30	0.5	14	57.92	54	55.48	14.56				51.5
13.0	273	16	34.3	− 0	2	14.5	15	2.50	55	12.30	16.82	6.8	13.0	17 25.8	
											19.07				53.0
13.5	279	25	3.0	− 0	34	49.1	15	7.70	55	31.37					
14.0	285	37	57.1	1	7	23.0		13.49	55	52.62	+21.25	7.8	14.0	18 18.8	
14.5	291	55	55.1	1	39	34.4		19.84	56	15.93	23.31				53.6
15.0	298	19	35.0	2	11	0.0		26.70	56	41.12	25.19	8.8	15.0	19 12.4	
15.5	304	49	31.5	2	41	14.4		34.01	57	7.94	26.82				53.6
											28.12				
16.0	311	26	15.8	− 3	9	50.6	15	41.67	57	36.06		9.8	16.0	20 6.0	
16.5	318	10	13.0	3	36	19.7		49.57	58	5.05	+28.99				53.1
17.0	325	1	40.8	4	0	11.6	15	57.57	58	34.42	29.37	10.8	17.0	20 59.1	
17.5	332	0	47.4		20	55.5	16	5.51	59	3.57	29.15				52.8
18.0	339	7	29.4		38	0.6		13.21		31.84	28.27	11.8	18.0	21 51.9	
											26.68				52.9
18.5	346	21	31.0	− 4	50	57.8	16	20.48	59	58.52					
19.0	353	42	21.9	4	59	20.7		27.12	60	22.89	+24.37	12.8	19.0	22 44.8	
19.5	1	9	17.9	5	2	47.6		32.92	60	44.19	21.30				53.7
20.0	8	41	20.9	5	1	3.2		37.71	61	1.76	17.57	13.8	20.0	23 38.5	
20.5	16	17	21.1	4	53	59.9		41.32		15.00	13.24				
											8.47				
21.0	23	55	58.7	− 4	41	39.2	16	43.63	61	23.47		14.8	21.0	... ...	55.2
21.5	31	35	48.4		24	12.0		44.55		26.86	+ 3.39				
22.0	39	15	22.7	4	1	58.9		44.07		25.09	− 1.77	15.8	22.0	0 33.7	
22.5	46	53	16.4	3	35	28.7		42.21		18.26	6.83				57.2
23.0	54	28	10.4	3	5	17.5		39.04	61	6.65	11.61	16.8	23.0	1 30.9	
											15.92				59.1
23.5	61	58	55.2	− 2	32	6.3	16	34.70	60	50.73					
24.0	69	24	32.4	1	56	39.0		29.35		31.07	−19.66	17.8	24.0	2 30.0	
24.5	76	44	17.2	1	19	40.1		23.16	60	8.34	22.73				60.2
25.0	83	57	37.9	0	41	53.5		16.33	59	43.27	25.07	18.8	25.0	3 30.2	
25.5	91	4	15.7	− 0	4	0.0		9.05	59	16.55	26.72				59.7
											27.68				
26.0	98	4	3.4	+ 0	33	22.7	16	1.51	58	48.87		19.8	26.0	4 29.9	
26.5	104	57	4.2	1	9	41.2	15	53.88	58	20.87	−28.00				57.6
27.0	111	43	29.7	1	44	26.5		46.31	57	53.10	27.77	20.8	27.0	5 27.5	
27.5	118	23	37.9	2	17	13.8		38.93		26.03	27.07				54.3
28.0	124	57	51.7	2	47	42.3		31.85	57	0.02	26.01	21.8	28.0	6 21.8	
											24.60				50.5
28.5	131	26	37.7	+ 3	15	34.8	15	25.15	56	35.42					
29.0	137	50	24.1	3	40	37.5		18.88	56	12.42	−23.00	22.8	29.0	7 12.3	
29.5	144	9	40.1	4	2	39.1		13.10	55	51.19	21.23				47.1
30.0	150	24	54.7		21	31.1		7.82		31.83	19.36	23.8	30.0	7 59.4	
30.5	156	36	36.2		37	6.8	15	3.07	55	14.37	17.46				44.1
											15.54				
31.0	162	45	11.2	+ 4	49	21.5	14	58.83	54	58.83		24.8	31.0	8 43.5	
31.5	168	51	4.8	4	58	12.2		55.11		45.17	−13.66				42.1
											−11.82				
11 1.0	174	54	39.8	+ 5	3	37.8	14	51.89	54	33.35		25.8	1.0	9 25.6	

月 日	黄経	黄緯	視半径	地平視差	月齢	日	本初子午線 正中時	
	° ′ ″	° ′ ″	′ ″	′ ″ ″	d		h m	m
11 1.0	174 54 39.8	+ 5 3 37.8	14 51.89	54 33.35 −10.06	25.8	1.0	9 25.6	41.0
1.5	180 56 17.0	5 38.1	49.15	23.29 8.38				
2.0	186 56 15.2	5 4 15.0	46.87	14.91 6.77	26.8	2.0	10 6.6	40.7
2.5	192 54 50.9	4 59 31.8	45.02	8.14 5.25				
3.0	198 52 19.2	51 32.8	43.59	54 2.89 3.80	27.8	3.0	10 47.3	41.2
3.5	204 48 53.7	+ 4 40 24.4	14 42.56	53 59.09				
4.0	210 44 46.6	26 14.1	41.90	56.67 − 2.42	28.8	4.0	11 28.5	
4.5	216 40 9.9	4 9 11.3	41.60	55.59 − 1.08				42.5
5.0	222 35 15.1	3 49 26.4	41.66	55.81 + 0.22	0.0	5.0	12 11.0	
5.5	228 30 14.0	27 11.5	42.07	53 57.32 1.51 2.80				44.3
6.0	234 25 19.1	+ 3 2 39.7	14 42.84	54 0.12	1.0	6.0	12 55.3	
6.5	240 20 43.9	2 36 5.5	43.96	4.23 + 4.11				46.5
7.0	246 16 43.3	2 7 44.5	45.44	9.69 5.46	2.0	7.0	13 41.8	
7.5	252 13 33.8	1 37 53.1	47.32	16.56 6.87				48.8
8.0	258 11 34.3	1 6 48.8	49.59	24.89 8.33 9.87	3.0	8.0	14 30.6	
8.5	264 11 5.5	+ 0 34 49.7	14 52.27	54 34.76				50.6
9.0	270 12 30.6	+ 0 2 14.9	55.40	46.23 +11.47	4.0	9.0	15 21.2	
9.5	276 16 14.8	− 0 30 36.2	14 58.99	54 59.39 13.16				51.8
10.0	282 22 45.6	1 3 23.1	15 3.04	55 14.28 14.89	5.0	10.0	16 13.0	
10.5	288 32 32.2	1 35 44.6	7.58	30.95 16.67 18.45				52.3
11.0	294 46 5.4	− 2 7 19.0	15 12.61	55 49.40	6.0	11.0	17 5.3	
11.5	301 3 56.7	2 37 43.5	18.11	56 9.61 +20.21				52.0
12.0	307 26 37.6	3 6 34.3	24.09	31.52 21.91	7.0	12.0	17 57.3	
12.5	313 54 39.1	33 27.2	30.48	56 55.00 23.48				51.4
13.0	320 28 30.0	3 57 56.7	37.26	57 19.88 24.88 26.02	8.0	13.0	18 48.7	
13.5	327 8 36.1	− 4 19 37.2	15 44.35	57 45.90				50.8
14.0	333 55 18.1	38 2.4	51.66	58 12.72 +26.82	9.0	14.0	19 39.5	
14.5	340 48 50.6	4 52 46.7	15 59.07	58 39.94 27.22				50.8
15.0	347 49 20.2	5 3 25.2	16 6.45	59 7.03 27.09	10.0	15.0	20 30.3	
15.5	354 56 43.4	9 35.5	13.65	33.44 26.41 25.07				51.5
16.0	2 10 46.0	− 5 10 58.3	16 20.48	59 58.51	11.0	16.0	21 21.8	
16.5	9 31 1.7	5 7 18.8	26.76	60 21.56 +23.05				53.3
17.0	16 56 51.5	4 58 28.4	32.30	41.89 20.33	12.0	17.0	22 15.1	
17.5	24 27 24.4	44 26.1	36.91	60 58.82 16.93				55.7
18.0	32 1 38.3	25 19.0	40.43	61 11.73 12.91 8.38	13.0	18.0	23 10.8	
18.5	39 38 21.8	− 4 1 23.5	16 42.71	61 20.11				
19.0	47 16 17.4	3 33 4.8	43.66	23.60 + 3.49	14.0	19.0	... ...	58.8
19.5	54 54 4.6	3 0 56.4	43.22	21.99 − 1.61				
20.0	62 30 23.2	2 25 38.8	41.40	15.30 6.69	15.0	20.0	0 9.6	
20.5	70 3 56.8	1 47 57.5	38.25	61 3.73 11.57 16.09				61.2
21.0	77 33 36.6	− 1 8 40.5	16 33.86	60 47.64	16.0	21.0	1 10.8	
21.5	84 58 22.6	− 0 28 36.6	28.40	27.57 −20.07				62.3
22.0	92 17 26.3	+ 0 11 27.2	22.02	60 4.16 23.41	17.0	22.0	2 13.1	
22.5	99 30 10.8	0 50 47.2	14.93	59 38.13 26.03				61.1
23.0	106 36 11.5	1 28 44.6	16 7.32	59 10.22 27.91 29.06	18.0	23.0	3 14.2	
23.5	113 35 15.0	+ 2 4 45.6	15 59.40	58 41.16				58.1
24.0	120 27 18.3	2 38 22.2	51.36	58 11.64 −29.52	19.0	24.0	4 12.3	
24.5	127 12 28.1	3 9 11.8	43.36	57 42.28 29.36				53.8
25.0	133 50 58.1	3 36 57.1	35.56	57 13.66 28.62	20.0	25.0	5 6.1	
25.5	140 23 8.7	4 1 25.1	28.09	56 46.21 27.45 25.88				49.6
26.0	146 49 25.0	+ 4 22 26.7	15 21.04	56 20.33	21.0	26.0	5 55.7	
26.5	153 10 15.7	39 56.3	14.49	55 56.32 −24.01				45.8
27.0	159 26 11.5	4 53 50.7	8.52	34.39 21.93	22.0	27.0	6 41.5	
27.5	165 37 44.8	5 4 8.8	15 3.15	55 14.69 19.70				43.0
28.0	171 45 28.4	10 51.4	14 58.42	54 57.31 17.38 15.01	23.0	28.0	7 24.5	
28.5	177 49 54.8	+ 5 14 0.7	14 54.33	54 42.30				41.4
29.0	183 51 35.5	13 39.8	50.88	29.64 −12.66	24.0	29.0	8 5.9	
29.5	189 51 1.3	9 53.2	48.06	19.29 10.35				40.5
30.0	195 48 40.7	5 2 46.2	45.85	11.17 8.12	25.0	30.0	8 46.4	
30.5	201 45 1.0	4 52 25.1	44.22	5.19 5.98 − 3.95				40.9
12 1.0	207 40 27.6	+ 4 38 57.3	14 43.14	54 1.24	26.0	1.0	9 27.3	

月 日	黄経	黄緯	視半径	地平視差	月齢	日	本初子午線 正中時	
	° ′ ″	° ′ ″	′ ″	′ ″ ″	d		h m	m
12 1.0	207 40 27.6	+ 4 38 57.3	14 43.14	54 1.24 − 2.05	26.0	1.0	9 27.3	41.9
1.5	213 35 23.2	22 31.2	42.58	53 59.19 − 0.29				
2.0	219 30 9.3	4 3 16.5	42.50	53 58.90 + 1.35	27.0	2.0	10 9.2	43.7
2.5	225 25 5.2	3 41 23.8	42.87	54 0.25 2.86				
3.0	231 20 28.6	3 17 5.6	43.65	3.11 4.23	28.0	3.0	10 52.9	45.9
3.5	237 16 35.5	+ 2 50 35.4	14 44.80	54 7.34				
4.0	243 13 40.7	2 22 8.1	46.30	12.84 + 5.50	29.0	4.0	11 38.8	
4.5	249 11 58.2	1 52 0.2	48.12	19.52 6.68				48.4
5.0	255 11 40.9	1 20 29.4	50.24	27.28 7.76	0.2	5.0	12 27.2	
5.5	261 13 1.6	0 47 54.8	52.63	36.08 8.80 9.77				50.5
6.0	267 16 13.0	+ 0 14 36.4	14 55.30	54 45.85	1.2	6.0	13 17.7	
6.5	273 21 27.8	− 0 19 4.5	14 58.22	54 56.57 +10.72				51.9
7.0	279 28 59.4	0 52 45.8	15 1.40	55 8.25 11.68	2.2	7.0	14 9.6	
7.5	285 39 1.7	1 26 4.9	4.84	20.87 12.62				52.4
8.0	291 51 49.6	1 58 38.4	8.54	34.46 13.59 14.59	3.2	8.0	15 2.0	
8.5	298 7 38.6	− 2 30 2.7	15 12.51	55 49.05				51.8
9.0	304 26 45.5	2 59 54.2	16.76	56 4.62 +15.57	4.2	9.0	15 53.8	
9.5	310 49 27.1	3 27 48.9	21.28	21.22 16.60				50.7
10.0	317 16 1.1	3 53 23.2	26.08	38.84 17.62	5.2	10.0	16 44.5	
10.5	323 46 44.9	4 16 13.8	31.14	56 57.43 18.59 19.50				49.6
11.0	330 21 55.5	− 4 35 58.2	15 36.46	57 16.93	6.2	11.0	17 34.1	
11.5	337 1 48.4	4 52 14.4	41.99	37.24 +20.31				49.0
12.0	343 46 37.1	5 4 42.0	47.70	57 58.19 20.95	7.2	12.0	18 23.1	
12.5	350 36 31.8	13 2.0	53.52	58 19.57 21.38				49.0
13.0	357 31 38.8	16 57.9	15 59.39	58 41.09 21.52 21.31	8.2	13.0	19 12.1	
13.5	4 31 59.0	− 5 16 16.0	16 5.19	59 2.40				50.1
14.0	11 37 27.1	10 46.4	10.83	23.09 +20.69	9.2	14.0	20 2.2	
14.5	18 47 50.8	5 0 23.9	16.17	59 42.68 19.59				52.4
15.0	26 2 49.6	4 45 9.0	21.06	60 0.66 17.98	10.2	15.0	20 54.6	
15.5	33 21 55.0	25 8.0	25.38	16.50 15.84 13.14				55.5
16.0	40 44 30.0	− 4 0 34.7	16 28.96	60 29.64	11.2	16.0	21 50.1	
16.5	48 9 50.1	3 31 49.7	31.67	39.59 + 9.95				58.9
17.0	55 37 3.5	2 59 21.4	33.39	45.89 6.30	12.2	17.0	22 49.0	
17.5	63 5 13.4	2 23 44.4	34.02	48.20 + 2.31				61.8
18.0	70 33 19.2	1 45 39.3	33.50	46.31 − 1.89 6.20	13.2	18.0	23 50.8	
18.5	78 0 18.6	− 1 5 50.8	16 31.81	60 40.11				
19.0	85 25 10.7	− 0 25 5.9	28.98	29.70 −10.41	14.2	19.0	... ...	62.8
19.5	92 46 56.9	+ 0 15 47.6	25.05	60 15.30 14.40				
20.0	100 4 44.3	0 56 3.6	20.15	59 57.29 18.01	15.2	20.0	0 53.6	
20.5	107 17 46.4	1 34 59.2	14.38	36.14 21.15 23.71				61.2
21.0	114 25 25.0	+ 2 11 56.1	16 7.92	59 12.43	16.2	21.0	1 54.8	
21.5	121 27 10.4	2 46 21.3	16 0.94	58 46.79 −25.64				57.8
22.0	128 22 42.5	3 17 47.9	15 53.60	58 19.87 26.92	17.2	22.0	2 52.6	
22.5	135 11 50.3	3 45 54.9	46.10	57 52.31 27.56				53.3
23.0	141 54 31.0	4 10 27.2	38.58	57 24.72 27.59 27.07	18.2	23.0	3 45.9	
23.5	148 30 50.4	+ 4 31 14.6	15 31.20	56 57.65				48.9
24.0	155 1 1.2	4 48 11.5	24.10	31.59 −26.06	19.2	24.0	4 34.8	
24.5	161 25 22.1	5 1 16.0	17.40	56 6.97 24.62				45.2
25.0	167 44 17.0	10 29.2	11.18	55 44.14 22.83	20.2	25.0	5 20.0	
25.5	173 58 13.8	15 54.5	5.52	23.39 20.75 18.48				42.7
26.0	180 7 43.7	+ 5 17 36.9	15 0.49	55 4.91	21.2	26.0	6 2.7	
26.5	186 13 20.0	15 43.1	14 56.12	54 48.88 −16.03				41.2
27.0	192 15 37.3	16 20.2	52.44	35.39 13.49	22.2	27.0	6 43.9	
27.5	198 15 11.3	5 1 36.5	49.47	24.47 10.92				40.8
28.0	204 12 37.4	4 49 40.5	47.20	16.14 8.33 5.80	23.2	28.0	7 24.7	
28.5	210 8 31.0	+ 4 34 41.7	14 45.62	54 10.34				41.4
29.0	216 3 26.4	4 16 49.8	44.72	7.02 − 3.32	24.2	29.0	8 6.1	
29.5	221 57 56.6	3 56 15.2	44.46	6.08 − 0.94				42.9
30.0	227 52 33.0	33 9.1	44.81	7.37 + 1.29	25.2	30.0	8 49.0	
30.5	233 47 45.4	3 7 44.0	45.74	10.76 3.39 5.30				45.0
31.0	239 44 1.0	+ 2 40 12.9	14 47.18	54 16.06	26.2	31.0	9 34.0	
31.5	245 41 45.3	2 10 50.7	49.10	23.11 + 7.05 + 8.59				47.7
12 32.0	251 41 20.8	+ 1 39 53.3	14 51.44	54 31.70	27.2	32.0	10 21.7	

	月	日	h	m	月	日	h	m	月	日	h	m	月	日	h	m
☾ 下弦	1	6	12	47	4	5	19	18	7	2	18	13	9	28	11	24
● 朔		14	5	7		12	12	29		9	13	35	10	6	5	22
☽ 上弦		20	23	48		19	7	46		17	7	1		14	9	38
○ 望		1	28	6	41	4	27	10	33		25	2	25		21	5	32
☾ 下弦	2	5	9	55	5	5	6	2	7	31	22	30	10	27	22	30
● 朔		12	17	33		11	20	21	8	8	0	32	11	4	23	11
☽ 上弦		19	8	38		18	22	12		16	0	26		12	23	34
○ 望		2	27	0	7	5	27	1	49		23	12	3		19	15	13
☾ 下弦	3	7	4	30	6	3	13	15	8	30	3	44	11	26	13	28
● 朔		14	3	51		10	4	26	9	6	13	43	12	4	18	7
☽ 上弦		20	19	11		17	14	5		14	17	38		12	11	5
○ 望		3	28	17	44	6	25	15	8		21	20	46		19	2	17
☾ 下弦	4	5	19	18	7	2	18	13	9	28	11	24	12	26	8	0

遠地點							近地點							
月	日	h		月	日	h		月	日	h		月	日	h	
1	5	20	1.05218	7	17	12	1.05151	1	17	17	0.95524	7	30	6	0.95999
2	2	16	1.05379	8	14	6	1.05253	2	14	12	0.94072	8	26	3	0.94797
3	2	7	1.05602	9	10	24	1.05507	3	14	21	0.93081	9	23	4	0.93551
	29	12	1.05734	10	8	13	1.05731	4	12	8	0.92864	10	21	14	0.92835
4	25	14	1.05711	11	4	16	1.05785	5	10	18	0.93427	11	19	2	0.92916
5	23	1	1.05520	12	1	20	1.05677	6	7	20	0.94561	12	17	13	0.93819
6	19	17	1.05272	12	29	11	1.05441	7	5	3	0.95815				

1945 平均黃經及近地點、昇交點ノ平均黃經

世界時 0h	平均黃經	近地點ノ平均黃經	昇交點ノ平均黃經	世界時 0h	平均黃經	近地點ノ平均黃經	昇交點ノ平均黃經
月 日	°	°	°	月 日	°	°	°
1 1	124.2818	5.4206	108.8066	7 5	41.9152	26.0303	99.0101
6	190.1638	5.9776	108.5418	10	107.7972	26.5874	98.7453
11	256.0458	6.5347	108.2770	15	173.6792	27.1444	98.4805
16	321.9278	7.0917	108.0122	20	239.5612	27.7014	98.2158
21	27.8098	7.6487	107.7475	25	305.4432	28.2584	97.9510
26	93.6918	8.2057	107.4827	30	11.3252	28.8154	97.6862
31	159.5737	8.7627	107.2179	8 4	77.2072	29.3725	97.4215
2 5	225.4557	9.3198	106.9532	9	143.0891	29.9295	97.1567
10	291.3377	9.8768	106.6884	14	208.9711	30.4865	96.8919
15	357.2197	10.4338	106.4236	19	274.8531	31.0435	96.6272
20	63.1017	10.9908	106.1589	24	340.7351	31.6005	96.3624
25	128.9837	11.5478	105.8941	29	46.6171	32.1575	96.0976
3 2	194.8657	12.1049	105.6293	9 3	112.4991	32.7146	95.8329
7	260.7476	12.6619	105.3646	8	178.3810	33.2716	95.5681
12	326.6296	13.2189	105.0998	13	244.2630	33.8286	95.3033
17	32.5116	13.7759	104.8350	18	310.1450	34.3856	95.0385
22	98.3936	14.3329	104.5702	23	16.0270	34.9426	94.7738
27	164.2756	14.8900	104.3055	28	81.9090	35.4997	94.5090
4 1	230.1576	15.4470	104.0407	10 3	147.7910	36.0567	94.2442
6	296.0395	16.0040	103.7759	8	213.6729	36.6137	93.9795
11	1.9215	16.5610	103.5112	13	279.5549	37.1707	93.7147
16	67.8035	17.1180	103.2464	18	345.4369	37.7277	93.4499
21	133.6855	17.6751	102.9816	23	51.3189	38.2848	93.1852
26	199.5675	18.2321	102.7169	28	117.2009	38.8418	92.9204
5 1	265.4495	18.7891	102.4521	11 2	183.0829	39.3988	92.6556
6	331.3314	19.3461	102.1873	7	248.9648	39.9558	92.3909
11	37.2134	19.9031	101.9226	12	314.8468	40.5128	92.1261
16	103.0954	20.4601	101.6578	17	20.7288	41.0699	91.8613
21	168.9774	21.0172	101.3930	22	86.6108	41.6269	91.5965
26	234.8594	21.5742	101.1282	27	152.4928	42.1839	91.3318
31	300.7414	22.1312	100.8635	12 2	218.3748	42.7409	91.0670
6 5	6.6233	22.6882	100.5987	7	284.2567	43.2979	90.8022
10	72.5053	23.2452	100.3339	12	350.1387	43.8549	90.5375
15	138.3873	23.8023	100.0692	17	56.0207	44.4120	90.2727
20	204.2693	24.3593	99.8044	22	121.9027	44.9690	90.0079
25	270.1513	24.9163	99.5396	27	187.7847	45.5260	89.7432
30	336.0333	25.4733	99.2749	32	253.6667	46.0830	89.4784
7 5	41.9152	26.0303	99.0101	12 37	319.5487	46.6400	89.2136

近地點ノ平均黃經 1日差 +0°.111404　　昇交點ノ平均黃經 1日差 −0°.052954

平均黃經ノ變化

d	°	h	°	m	°	m	°	m	°
0.1	1.31764	1	0.54902	1	0.00915	21	0.19216	41	0.37516
2	2.63528	2	1.09803	2	01830	22	20131	42	38431
3	3.95292	3	64705	3	02745	23	21046	43	39346
4	5.27056	4	2.19607	4	03660	24	21961	44	40261
5	6.58820	5	74508	5	04575	25	22876	45	41176
6	7.90584	6	3.29410	6	0.05490	26	0.23791	46	0.42091
7	9.22348	7	84312	7	06405	27	24706	47	43006
8	10.54112	8	4.39213	8	07320	28	25621	48	43921
9	11.85876	9	94115	9	08235	29	26536	49	44836
1.0	13.17640	10	5.49017	10	09150	30	27451	50	45751
2.0	26.35279	11	6.03918	11	0.10065	31	0.28366	51	0.46666
3.0	39.52919	12	58820	12	10980	32	29281	52	47581
4.0	52.70559	13	7.13721	13	11895	33	30196	53	48496
5.0	65.88198	14	68623	14	12810	34	31111	54	49411
		15	8.23525	15	13725	35	32026	55	50327
		16	8.78426	16	0.14640	36	0.32941	56	0.51242
		17	9.33328	17	15555	37	33856	57	52157
		18	88230	18	16470	38	34771	58	53072
		19	10.43131	19	17386	39	35686	59	53987
		20	98033	20	0.18301	40	0.36601	60	0.54902
		21	11.52935						
		22	12.07836						
		23	62738						

月	日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″			h m
1	1	17 29 32.18	− 42.36	−20 9 26.9	0.768961	4.34	11.44	+0.73	10 46.3
	2	28 49.82	− 2.47	− 193.0	787964 +19003	24	11.17	60	42.0
	3	28 47.35	+ 34.67	12 39.9	807691 19727	14	10.90	49	38.3
	4	29 22.02	69.01	− 297.3	827926 20235	4.04	63	39	35.2
	5	30 31.03	100.42	17 37.2	848481 20555	3.94	37	31	32.6
				24 4.5	20714				
				− 387.3					
				31 47.1					
				− 462.6					
	6	17 32 11.45	+129.03	−20 40 30.2	0.869195	3.85	10.12	+0.24	10 30.6
	7	34 20.48	154.97	− 523.1	889934 +20739	76	9.89	19	29.0
	8	36 55.45	178.43	20 50 0.0	910588 20654	67	66	14	27.8
	9	39 53.88	199.60	− 569.8	931063 20475	59	45	10	27.0
	10	43 13.48	218.69	21 0 3.0	951282 20219	51	25	07	26.5
				− 603.0	19901				
				10 27.1					
				− 624.1					
				21 1.3					
				− 634.2					
				634.1					
	11	17 46 52.17	+235.91	−21 31 35.4	0.971183	3.44	9.06	+0.04	10 26.3
	12	50 48.08	251.44	− 625.0	0.990719 +19536	37	8.88	+0.02	26.4
	13	54 59.52	265.46	42 0.4	19131	31	71	0.00	26.8
	14	17 59 24.98	278.13	− 607.7	1.009850 18698	25	55	−0.01	27.4
	15	18 4 3.11	289.58	21 52 8.1	028548 18241	19	40	03	28.1
				− 583.2	046789 17767				
				22 1 51.3					
				− 552.2					
				11 3.5					
				− 515.4					
	16	18 8 52.69	+299.96	−22 19 38.9	1.064556	3.14	8.26	−0.04	10 29.1
	17	13 52.65	309.38	− 473.6	081837 +17281	09	13	05	30.2
	18	19 2.03	317.94	27 32.5	098626 16789	3.04	8.01	06	31.5
	19	24 19.97	325.71	− 427.4	114918 16292	2.99	7.89	07	32.9
	20	29 45.68	332.80	34 39.9	130713 15795	95	78	07	34.4
				− 377.1	15296				
				40 57.0					
				− 323.2					
				46 20.2					
				− 266.1					
	21	18 35 18.48	+339.26	−22 50 46.3	1.146009	2.91	7.68	−0.08	10 36.1
	22	40 57.74	345.16	− 206.0	160806 +14797	88	58	09	37.9
	23	46 42.90	350.57	54 12.3	175111 14305	84	49	09	39.7
	24	52 33.47	355.52	− 143.6	188931 13820	81	40	10	41.6
	25	18 58 28.99	360.07	56 35.9	202265 13334	78	32	11	43.7
				− 79.1	12847				
				57 55.0					
				− 12.5					
				58 7.5					
				+ 56.2					
	26	19 4 29.06	+364.23	−22 57 11.3	1.215112	2.75	7.24	−0.12	10 45.8
	27	10 33.29	368.05	+ 126.4	227484 +12372	72	17	12	47.9
	28	16 41.34	371.57	55 4.9	239391 11907	70	10	13	50.1
	29	22 52.91	374.80	− 197.9	250835 11444	67	7.04	14	52.4
	30	29 7.71	377.76	51 47.0	261815 10980	65	6.98	15	54.7
	31	35 25.47	380.48	− 270.9	272337 10522	63	92	17	57.1
				47 16.1	10069				
				− 345.1					
				41 31.0					
				− 420.3					
				34 30.7					
				− 496.4					
2	1	19 41 45.95	+383.00	−22 26 14.3	1.282406	2.61	6.86	−0.18	10 59.6
	2	48 8.95	385.32	+ 573.7	292025 + 9619	59	81	20	11 2.0
	3	19 54 34.27	387.45	16 40.6	301199 9174	57	76	22	4.5
	4	20 1 1.72	389.43	− 651.9	309930 8731	55	72	23	7.0
	5	7 31.15	391.25	22 5 48.7	318220 8290	54	68	25	9.6
				− 730.6	7846				
				21 53 38.1					
				− 809.9					
				40 8.2					
				− 889.8					
	6	20 14 2.40	+392.93	−21 25 18.4	1.326066	2.52	6.64	−0.27	11 12.2
	7	20 35.33	394.49	+ 970.5	333465 + 7399	51	60	30	14.8
	8	27 9.82	395.93	21 9 7.9	340420 6955	49	56	32	17.5
	9	33 45.75	397.29	− 1051.5	346932 6512	48	53	35	20.2
	10	40 23.04	398.56	20 51 36.4	352998 6066	47	50	38	22.8
				− 1133.0	5616				
				32 43.4					
				− 1215.1					
				20 12 28.3					
				− 1297.5					
	11	20 47 1.60	+399.75	−19 50 50.8	1.358614	2.46	6.47	−0.41	11 25.6
	12	20 53 41.35	400.87	− 1380.2	363773 + 5159	45	45	45	28.3
	13	21 0 22.22	401.94	27 50.6	368465 4692	44	43	48	31.1
	14	7 4.16	402.96	− 1463.0	372682 4217	43	41	52	33.8
	15	13 47.12	403.94	19 3 27.6	376416 3734	42	40	56	36.6
				− 1546.1	3241				
				18 37 41.5					
				− 1629.6					
				18 10 31.9					
				− 1713.1					
	16	21 20 31.06	+404.90	−17 41 58.8	1.379657	2.42	6.38	−0.60	11 39.4
	17	27 15.96	405.84	− 1796.7	382396 + 2739	41	37	64	42.2
	18	34 1.80	406.76	17 12 2.1	384615 2219	41	36	69	45.1
	19	40 48.56	407.68	− 1880.4	386296 1681	41	35	74	47.9
	20	47 36.24	408.62	16 40 41.7	387423 1127	41	34	79	50.8
				− 1964.0	+ 555				
				16 7 57.7					
				− 2047.6					
				15 33 50.1					
				− 2131.1					
	21	21 54 24.86	+409.56	−14 58 19.0	1.387978	2.41	6.34	−0.85	11 53.7
	22	22 1 14.42	410.49	+ 2214.4	387935 − 43	41	34	91	56.6
	23	8 4.91	411.42	14 21 24.6	387269 666	41	34	0.97	11 59.5
	24	14 56.33	412.37	− 2297.3	385951 1318	41	35	1.04	12 2.4
	25	21 48.70	413.30	13 3 27.6	383953 1998	42	36	10	5.3
				− 2379.7	2714				
				12 22 26.2					
				− 2461.4					
				2542.4					
	26	22 28 42.00	+414.23	−11 40 3.8	1.381239	2.42	6.37	−1.16	12 8.3
	27	35 36.23	415.12	+ 2622.3	377774 − 3465	43	39	22	11.3
	28	42 31.35		10 56 21.5	373520 4254	43	41	28	14.3
				− 2700.7	− 5082				
				10 11 20.8					
				+ 2777.4					
3	1	22 49 27.31	+415.96	− 9 25 3.4	1.368438	2.44	6.43	−1.33	12 17.3

月	日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″			h m
3	1	22 49 27.31	+415.96	− 9 25 3.4	1.368438	2.44	6.43	−1.33	12 17.3
	2	22 56 24.03	+416.72	− 8 37 31.3	− 5958	45	46	37	20.3
	3	23 3 21.41	417.38	+ 2852.1	362480 6883	46	49	39	23.3
	4	10 19.31	417.90	7 48 47.0	355597 7851	48	53	40	26.3
	5	17 17.53	418.22	− 2924.3	347746 8861	49	57	40	29.4
			418.30	6 58 53.7	338885 9922				
				− 2993.3					
				6 7 55.0					
				− 3058.7					
				3119.6					
	6	23 24 15.83	+418.05	− 5 15 55.4	1.328963	2.51	6.62	−1.39	12 32.4
	7	31 13.88	417.41	+ 3175.3	317929 −11034	53	68	38	35.4
	8	38 11.29	416.27	4 23 0.1	305741 12188	55	74	37	38.4
	9	45 7.56	414.55	− 3224.9	292364 13377	58	81	35	41.4
	10	52 2.11	412.13	3 29 15.2	277762 14602	61	89	33	44.4
				− 3267.2	15853				
				2 34 48.0					
				− 3301.3					
				1 39 46.7					
				− 3326.1					
	11	23 58 54.24	+408.90	− 0 44 20.6	1.261909	2.65	6.98	−1.30	12 47.3
	12	0 5 43.14	+ 404.71	+ 3340.2	244793 −17116	68	7.07	26	50.1
	13	12 27.85	399.44	0 11 19.6	226418 18375	73	18	22	52.9
	14	19 7.29	392.99	− 3342.4	206799 19619	77	29	17	55.5
	15	25 40.28	385.25	1 7 2.0	185970 20829	82	42	11	12 58.1
				− 3331.5	21986				
				2 2 33.5					
				− 3306.9					
				2 57 40.4					
				− 3267.2					
	16	0 32 5.53	+376.10	+ 3 52 7.6	1.163984	2.87	7.56	−1.05	13 0.5
	17	38 21.63	365.44	+ 3211.9	140912 −23072	93	71	0.97	2.7
	18	44 27.07	353.25	4 45 39.5	116850 24062	2.99	7.88	89	4.8
	19	50 20.32	339.48	− 3140.5	091912 24938	3.06	8.06	80	6.6
	20	0 55 59.80	324.13	5 38 0.0	066228 25684	14	26	70	8.2
				− 3052.9	26289				
				6 28 52.9					
				− 2949.1					
				7 18 2.0					
				− 2829.7					
	21	1 1 23.93	+ 307.24	+ 8 5 11.7	1.039939	3.22	8.47	−0.59	13 9.5
	22	6 31.17	288.85	+ 2695.2	1.013202 −26737	30	69	47	10.5
	23	11 20.02	269.05	8 50 6.9	0.986180 27022	39	8.93	35	11.2
	24	15 49.07	247.92	9 32 33.5	959034 27146	49	9.18	22	11.5
	25	19 56.99	225.60	− 2546.6	931928 27105	59	44	−0.09	11.5
				− 2384.8	26906				
				10 12 18.3					
				− 2210.9					
				10 49 9.2					
				− 2026.1					
	26	1 23 42.59	+202.21	+11 22 55.3	0.905022	3.69	9.72	+0.05	13 11.1
	27	27 4.80	177.94	+ 1831.4	878474 −26548	80	10.02	19	10.3
	28	30 2.74	152.93	11 53 26.7	852427 26047	3.92	32	34	9.1
	29	32 35.67	127.35	− 1628.1	827019 25408	4.04	64	49	7.5
	30	34 43.02	101.42	12 20 34.8	802376 24643	16	10.97	65	5.4
	31	36 24.44	75.36	− 1417.1	778613 23763	29	11.31	81	2.9
				12 44 11.9	22778				
				− 1199.4					
				13 4 11.3					
				− 976.0					
				13 20 27.3					
				− 747.8					
4	1	1 37 39.80		+13 32 55.1	0.755835	4.42	11.65	+0.98	13 0.0
	2	38 29.20	+ 49.40	+ 516.2	734140 −21695	55	11.99	1.15	12 56.7
	3	38 53.06	+ 23.86	41 31.3	713612 20528	68	12.33	32	52.9
	4	38 52.05	− 1.01	− 282.8	694327 19285	81	12.67	50	48.8
	5	38 27.16	24.89	46 14.1	676352 17975	4.94	13.01	68	44.2
			47.46	+ 49.4	16609				
				47 3.5					
				− 182.7					
				44 0.8					
				− 411.2					
	6	1 37 39.70	− 68.39	+13 37 9.6	0.659743	5.06	13.33	+1.86	12 39.3
	7	36 31.31	87.36	− 632.9	644549 −15194	18	65	2.05	34.1
	8	35 3.95	104.05	26 36.7	630810 13739	29	13.95	27	28.6
	9	33 19.90	118.22	− 845.2	618553 12257	40	14.22	47	22.8
	10	31 21.68	129.65	13 12 31.5	607797 10756	49	47	67	16.8
				− 1045.1	9245				
				12 55 6.4					
				− 1229.6					
				34 36.8					
				− 1395.1					
	11	1 29 12.03	−138.16	+12 11 21.7	0.598552	5.58	14.70	+2.85	12 10.7
	12	26 53.87	143.66	− 1539.1	590819 − 7733	65	14.89	3.00	12 4.4
	13	24 30.21	146.12	11 45 42.6	584584 6235	71	15.05	10	11 58.1
	14	22 4.09	145.60	− 1658.4	579827 4757	76	17	16	51.7
	15	19 38.49	142.21	11 18 4.2	576517 3310	79	26	17	45.4
				− 1751.3	1901				
				10 48 52.9					
				− 1816.4					
				10 18 36.5					
				− 1853.2					
	16	1 17 16.28		+ 9 47 43.3	0.574616	5.81	15.31	+3.04	11 39.2
	17	15 0.11	−136.17	− 1861.8	574078 − 538	81	32	2.89	33.1
	18	12 52.39	127.72	9 16 41.5	574851 + 773	81	30	71	27.1
	19	10 55.27	117.12	8 45 58.5	576875 2024	79	25	51	21.3
	20	9 10.59	104.68	− 1843.0	580086 3211	76	16	36	15.8
			90.72	8 15 59.7	4335				
				− 1798.8					
				7 47 8.7					
				− 1731.0					
				1642.6					
	21	1 7 39.87		+ 7 19 46.1	0.584421	5.71	15.05	+2.22	11 10.4
	22	6 24.34	− 75.53	− 1535.8	589814 + 5393	66	14.92	2.09	5.4
	23	5 24.91	59.43	6 54 10.3	596197 6383	60	76	1.97	11 0.6
	24	4 42.22	42.69	− 1414.5	603502 7305	53	58	86	10 56.1
	25	4 16.64	25.58	30 35.8	611664 8162	46	39	75	51.9
			8.27	− 1281.2	8958				
				6 9 14.6					
				− 1138.7					
				5 50 15.9					
				989.5					
	26	1 4 8.37		+ 5 33 46.4	0.620622	5.38	14.18	+1.66	10 47.9
	27	4 17.39	+ 9.02	− 836.1	630318 + 9696	30	13.96	57	44.3
	28	4 43.57	26.18	19 50.3	640696 10378	21	73	49	40.9
	29	5 26.62	43.05	5 8 29.8	651703 11007	13	50	41	37.8
	30	6 26.18	59.56	− 680.5	663291 11588	5.04	27	33	35.0
			+ 75.63	4 59 45.3	+12124				
				− 524.5					
				53 36.0					
				− 369.3					
				− 216.2					
5	1	1 7 41.81		+ 4 49 59.8	0.675415	4.95	13.03	+1.26	10 32.4

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		h m s	s	° ′ ″	″	″		h m
5	1	1 7 41.81	+ 91.22	+ 4 49 59.8	0.675415	4.95	13.03	+1.26	10 32.4
		9 13.03	105.29	48 53.6	688033 +12618	86	12.79	20	30.1
	2	10 59.32	120.85	50 13.7	701106 13073	76	55	14	28.0
	3	13 0.17	134.87	53 55.8	714600 13494	67	32	08	26.2
	4	15 15.04	148.36	4 59 55.1	728484 13884	58	12.08	1.03	24.6
	5				14248				
	6	1 17 43.40	+161.39	+ 5 8 6.6	0.742732	4.49	11.85	+0.98	10 23.2
	7	20 24.79	173.96	18 25.3	757316 +14584	41	62	93	22.1
	8	23 18.75	186.08	30 46.3	772211 14895	32	40	88	21.1
	9	26 24.83	197.77	5 45 4.1	787394 15183	24	11.18	83	20.4
	10	29 42.60	209.09	6 1 13.5	802847 15453	16	10.96	78	19.8
					15705				
	11	1 33 11.69	+220.10	+ 6 19 9.3	0.818552	4.08	10.75	+0.73	10 19.4
	12	36 51.79	230.81	6 38 46.7	834494 +15942	4.01	54	69	19.2
	13	40 42.60	241.25	7 0 0.6	850656 16162	3.93	34	64	19.2
	14	44 43.85	251.51	22 46.2	867023 16367	86	10.15	59	19.4
	15	48 55.36	261.60	7 46 58.8	883580 16557	78	9.96	54	19.7
					16732				
	16	1 53 16.96	+271.57	+ 8 12 33.8	0.900312	3.71	9.77	+0.49	10 20.2
	17	1 57 48.53	281.44	8 39 26.5	917204 +16892	64	59	44	20.8
	18	2 2 29.97	291.27	9 7 32.5	934243 17039	58	42	39	21.6
	19	7 21.24	301.09	9 36 47.3	951413 17170	51	25	34	22.6
	20	12 22.33	310.95	10 7 6.5	968695 17282	45	9.08	28	23.8
					17376				
	21	2 17 33.28	+320.91	+10 38 25.7	0.986071	3.39	8.92	+0.23	10 25.1
	22	22 54.19	330.92	11 10 40.3	1.003518 +17447	33	77	17	26.6
	23	28 25.11	341.03	11 43 45.7	021015 17497	27	62	11	28.2
	24	34 6.14	351.33	12 17 37.2	038537 17522	22	47	+0.04	30.0
	25	39 57.47	361.84	12 52 9.8	056054 17517	16	33	−0.03	32.0
					17477				
	26	2 45 59.31	+372.52	+13 27 18.5	1.073531	3.11	8.20	−0.10	10 34.2
	27	52 11.83	383.41	14 2 57.9	090935 +17404	06	8.07	17	36.5
	28	2 58 35.24	394.55	14 39 2.3	108226 17291	3.02	7.94	25	39.1
	29	3 5 9.79	405.95	15 15 25.7	125356 17130	2.97	82	33	41.8
	30	11 55.74	417.57	15 52 1.6	142270 16914	93	71	41	44.7
	31	18 53.31	429.40	16 28 43.2	158913 16643	88	60	50	47.8
					16313				
6	1	3 26 2.71	+441.42	+17 5 23.0	1.175226	2.84	7.49	−0.59	10 51.1
	2	33 24.13	453.59	17 41 52.8	191135 +15909	80	39	68	54.7
	3	40 57.72	465.85	18 18 4.1	206562 15427	76	30	77	10 58.4
	4	48 43.57	478.12	18 53 47.3	221426 14864	73	21	87	11 2.3
	5	3 56 41.69	490.31	19 28 52.4	235643 14217	70	13	0.96	6.4
					13474				
	6	4 4 52.00	+502.30	+20 3 8.8	1.249117	2.67	7.05	−1.06	11 10.8
	7	13 14.30	513.96	20 36 25.5	261751 +12634	64	6.98	16	15.3
	8	21 48.26	525.14	21 8 30.6	273450 11699	62	91	26	20.0
	9	30 33.40	535.66	21 39 11.8	284119 10669	60	85	36	24.9
	10	39 29.06	545.36	22 8 16.9	293665 9546	58	80	46	30.0
					8337				
	11	4 48 34.42	+554.05	+22 35 33.9	1.302002	2.56	6.76	−1.57	11 35.3
	12	4 57 48.47	561.59	23 0 51.0	309052 + 7050	55	72	66	40.6
	13	5 7 10.06	567.79	23 57.0	314747 5695	54	69	74	46.1
	14	16 37.85	572.54	23 44 41.6	319052 4305	53	67	80	51.7
	15	26 10.39	575.75	24 2 55.8	321950 2898	53	66	82	11 57.4
					+ 1441				
	16	5 35 46.14	+577.36	+24 18 32.3	1.323391	2.52	6.65	−1.82	12 3.0
	17	45 23.50	577.35	31 25.1	323340 − 51	53	65	80	8.7
	18	5 55 0.85	575.73	41 30.5	321859 1481	53	66	76	14.4
	19	6 4 36.58	572.61	48 46.4	319024 2835	53	67	68	20.1
	20	14 9.19	568.04	53 12.6	314877 4147	54	69	59	25.7
				+ 97.7	5402				
	21	6 23 37.23	+562.16	+24 54 50.3	1.309475	2.55	6.72	−1.49	12 31.2
	22	32 59.39	555.06	53 42.7	302894 − 6581	56	75	38	36.5
	23	42 14.45	546.94	49 54.1	295219 8683	58	79	28	41.8
	24	6 51 21.39	537.94	43 30.1	286536 9599	60	84	18	46.9
	25	7 0 19.33	528.18	34 37.3	276937 10429	62	89	1.09	51.9
					9599				
	26	7 9 7.51	+517.81	+24 23 22.7	1.266508	2.64	6.95	−0.99	12 56.6
	27	17 45.32	506.95	24 9 53.7	255336 −11172	66	7.01	90	13 1.3
	28	26 12.27	495.72	23 54 18.3	243501 11835	69	08	81	5.7
	29	34 27.99	484.23	36 44.4	231082 12419	71	15	72	9.9
	30	42 32.22	+472.54	23 17 20.4	218151 12931	74	22	63	13.9
					−13378				
7	1	7 50 24.76		+22 56 14.5	1.204773	2.77	7.30	−0.55	13 17.8

月	日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″	″		h m
7	1	7 50 24.76	+ 460.73	+22 56 14.5	1.204773	2.77	7.30	−0.55	13 17.8
	2	7 58 5.49	448.86	33 34.3	191009 −13764	80	39	46	21.4
	3	8 5 34.35	436.98	22 9 27.3	176914 14095	84	48	39	24.8
	4	12 51.33	425.15	-21 44 1.0	162535 14379	87	57	31	28.1
	5	19 56.48	413.36	21 17 22.7	147917 14618	91	67	24	31.1
					14818				
	6	8 26 49.84	+401.64	+20 49 39.4	1.133099	2.95	7.77	−0.17	13 33.9
	7	33 31.48	389.97	20 20 57.8	118115 −14984	2.99	87	11	36.6
	8	40 1.45	378.38	19 51 24.4	102999 15116	3.03	7.98	−0.05	39.0
	9	46 19.83	366.90	19 21 5.5	087780 15219	07	8.09	+0.01	41.3
	10	52 26.73	355.51	18 50 7.1	072480 15300	12	21	06	43.4
					15364				
	11	8 58 22.24	+344.19	+18 18 34.9	1.057116	3.16	8.33	+0.12	13 45.3
	12	9 4 6.43	332.91	17 46 34.5	041710 −15406	21	45	17	46.9
	13	9 39.34	321.66	17 14 11.4	026279 15431	26	58	22	48.4
	14	15 1.00	310.42	16 41 31.0	1.010841 15438	31	71	27	49.8
	15	20 11.42	299.17	16 8 38.7	0.995411 15430	36	84	31	50.9
					15411				
	16	9 25 10.59	+287.91	+15 35 39.5	0.980000	3.41	8.98	+0.36	13 51.8
	17	29 58.50	276.59	15 2 38.5	964617 −15383	47	9.12	40	52.6
	18	34 35.09	265.18	14 29 40.8	949275 15342	52	27	44	53.1
	19	39 0.27	253.68	13 56 51.7	933988 15287	58	42	48	53.5
	20	43 13.95	242.05	13 24 16.1	918764 15224	64	58	52	53.7
					15151				
	21	9 47 16.00	+230.19	+12 51 59.0	0.903613	3.70	9.74	+0.56	13 53.6
	22	51 6.19	218.10	12 20 6.0	888548 −15065	76	9.91	59	53.4
	23	54 44.29	205.76	11 48 42.7	873582 14966	83	10.08	63	53.0
	24	9 58 10.05	193.17	11 17 54.5	858727 14855	89	25	67	52.3
	25	10 1 23.22	180.23	10 47 46.9	843996 14731	3.96	43	71	51.5
					14592				
	26	10 4 23.45	+166.93	+10 18 25.9	0.829404	4.03	10.61	+0.75	13 50.4
	27	7 10.38	153.21	9 49 57.8	814967 −14437	10	80	79	49.1
	28	9 43.59	139.07	9 22 29.0	800706 14261	17	10.99	83	47.6
	29	12 2.66	124.47	8 56 6.3	786642 14064	25	11.19	87	45.9
	30	14 7.13	109.39	30 56.6	772796 13846	32	39	91	43.9
	31	15 56.52	93.78	8 7 7.0	759192 13604	40	59	0.95	41.6
					13331				
8	1	10 17 30.30	+ 77.63	+ 7 44 45.4	0.745861	4.48	11.80	+1.00	13 39.1
	2	18 47.93	60.93	24 0.0	732838 −13023	56	12.01	05	36.3
	3	19 48.86	43.69	7 4 59.0	720158 12680	64	22	11	33.2
	4	20 32.55	25.96	6 47 50.8	707859 12299	72	43	17	29.8
	5	20 58.51	+ 7.78	32 44.4	695990 11869	80	64	24	26.1
					11388				
	6	10 21 6.29	− 10.80	+ 6 19 48.5	0.684602	4.88	12.85	+1.31	13 22.2
	7	20 55.49	29.66	9 12.1	673749 −10853	4.96	13.06	38	17.9
	8	20 25.83	48.66	6 1 3.6	663489 10260	5.03	26	46	13.3
	9	19 37.17	67.63	5 55 31.4	653890 9599	11	46	55	8.4
	10	18 29.54	85.34	52 42.8	645028 8862	18	65	65	13 3.1
				+ 1.4	8049				
	11	10 17 3.20	− 104.55	+ 5 52 44.2	0.636979	5.25	13.82	+1.75	12 57.6
	12	15 18.65	121.90	5 55 40.6	629824 − 7155	31	13.97	86	51.8
	13	13 16.75	138.08	6 1 34.7	623650 6174	36	14.11	1.98	45.7
	14	10 58.67	152.68	10 27.3	618547 5103	40	23	2.12	39.4
	15	8 25.99	165.36	22 16.3	614608 3939	44	32	27	32.8
				880.6	2681				
	16	10 5 40.63	− 175.61	+ 6 36 56.9	0.611927	5.46	14.38	+2.41	12 26.0
	17	10 2 45.02	183.11	6 54 19.9	610593 − 1334	47	41	55	19.1
	18	9 59 41.91	187.42	7 14 13.3	610692 + 99	47	40	70	12.1
	19	56 34.49	188.26	7 36 21.0	612307 1615	45	36	81	12 5.1
	20	53 26.23	185.40	8 0 24.1	615514 3207	42	29	88	11 58.1
				1535.9	4862				
	21	9 50 20.83	− 178.73	+ 8 26 0.0	0.620376	5.38	14.18	+2.91	11 51.1
	22	47 22.10	168.14	8 52 44.1	626943 + 6567	32	14.03	81	44.3
	23	44 33.96	153.71	9 20 9.7	635253 8310	25	13.84	68	37.7
	24	42 0.25	135.70	9 47 49.1	645330 10077	17	63	51	31.4
	25	39 44.55	114.32	10 15 14.5	657177 11847	5.08	39	30	25.4
				1604.1	13605				
	26	9 37 50.23	− 89.96	+10 41 58.6	0.670782	4.98	13.12	+2.10	11 19.8
	27	36 20.27	62.97	11 7 35.5	686118 +15336	87	12.82	1.89	14.5
	28	35 17.30	33.91	31 40.4	703139 17021	75	52	68	9.8
	29	34 43.39	− 3.22	11 53 50.9	721782 18643	63	12.19	47	5.5
	30	34 40.17	+ 28.56	12 13 46.5	741965 20183	50	11.86	27	11 1.8
	31	35 8.73	+ 61.92	31 9.4	763591 21626	38	52	1.07	10 58.6
				1042.9	+22959				
				+ 874.6					
9	1	9 36 9.75		+12 45 44.0	0.786550	4.25	11.19	+0.88	10 55.9

月 日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
	h m s s	° ′ ″ ″	″	″		h m
9 1	9 36 9.75 + 93.65	+12 45 44.0 + 692.8	0.786550	4.25	11.19	+0.88	10 55.9
2	37 43.40 126.07	12 57 16.8 499.9	810711 +24161	12	10.85	70	53.8
3	39 49.47 157.78	13 5 36.7 298.2	835931 25220	4.00	52	53	52.2
4	42 27.25 188.45	10 34.9 89.6	862055 26124	3.88	10.21	36	51.1
5	45 35.70 217.76	12 4.5 + 123.3	888918 26863 27419	76	9.90	20	50.5
6	9 49 13.46	+13 10 1.2	0.916837	3.65	9.60	+0.05	10 50.4
7	53 18.89 +245.43	13 4 22.8 − 338.4	944126 +27789	54	32	−0.09	50.8
8	9 57 50.05 271.16	12 55 9.3 553.5	0.972096 27970	44	9.05	23	51.5
9	10 2 44.83 294.78	42 22.7 766.6	1.000059 27963	34	8.80	36	52.6
10	8 0.97 316.14	26 7.5 975.2	027825 27766 27385	25	56	48	54.1
11	10 13 36.13	+12 6 30.0	1.055210	3.17	8.34	−0.59	10 55.9
12	19 27.90 +351.77	11 43 38.9 − 1371.1	082049 +26839	09	8.13	69	10 57.9
13	25 33.88 365.98	11 17 44.7 1554.2	108189 26140	3.02	7.94	78	11 0.2
14	31 51.78 377.90	10 48 58.6 1726.1	133496 25307	2.95	76	86	2.6
15	38 19.42 387.64	10 17 33.1 1885.5	157857 24361 23317	89	60	93	5.2
	395.33	2031.3					
16	10 44 54.75	+ 9 43 41.8	1.181174	2.83	7.45	−0.99	11 7.9
17	51 35.90 +401.15	9 7 39.1 − 2162.7	203372 +22198	78	31	1.04	10.7
18	10 58 21.20 405.30	8 29 38.7 2280.4	224402 21030	73	19	09	13.5
19	11 5 9.16 407.96	7 49 54.5 2384.2	244236 19834	69	7.08	13	16.4
20	11 58.55 409.39	7 8 39.6 2474.9	262856 18620 17405	65	6.97	16	19.3
	409.76	2552.8					
21	11 18 48.31	+ 6 26 6.8	1.280261	2.61	6.88	−1.18	11 22.2
22	25 37.55 +409.24	5 42 27.9 − 2618.9	296463 +16202	58	79	20	25.0
23	32 25.54 407.99	4 57 54.2 2673.7	311482 15019	55	71	21	27.9
24	39 11.73 406.19	4 12 36.0 2718.2	325345 13863	52	64	22	30.7
25	45 55.67 403.94	3 26 42.6 2753.4	338083 12738 11654	49	58	23	33.5
	401.39	2780.1					
26	11 52 37.06	+ 2 40 22.5	1.349737	2.47	6.52	−1.23	11 36.2
27	11 59 15.67 +398.61	1 53 43.3 − 2799.2	360352 +10615	45	47	24	38.9
28	12 5 51.37 395.70	1 6 51.9 2811.4	369963 9611	44	43	24	41.5
29	12 24.07 392.70	+ 0 19 54.6 2817.3	378607 8644	42	39	24	44.1
30	18 53.76 389.69	− 0 27 3.1 2817.7	386328 7721 6841	41	35	23	46.6
	386.72	2813.2					
10 1	12 25 20.48	− 1 13 56.3	1.393169	2.40	6.32	−1.21	11 49.1
2	31 44.28 +383.80	2 0 40.6 − 2804.3	399162 + 5993	39	29	19	51.5
3	38 5.26 380.98	2 47 11.9 2791.3	404340 5178	38	27	16	53.9
4	44 23.53 378.27	3 33 26.8 2774.9	408741 4401	37	25	12	56.3
5	50 39.24 375.71	4 19 22.2 2755.4	412400 3659 2944	36	23	07	11 58.6
	373.29	2733.0					
6	12 56 52.53	− 5 4 55.2	1.415344	2.36	6.22	−1.01	12 0.8
7	13 3 3.55 +371.02	5 50 3.1 − 2707.9	417595 + 2251	35	21	0.95	3.1
8	9 12.44 368.89	6 34 43.6 2680.5	419182 1587	35	20	89	5.3
9	15 19.37 366.93	7 18 54.6 2651.0	420130 948	35	20	84	7.4
10	21 24.50 365.13	8 2 34.2 2619.6	420457 + 327 − 277	35	19	79	9.6
	363.51	2586.5					
11	13 27 28.01	− 8 45 40.7	1.420180	2.35	6.20	−0.75	12 11.7
12	33 30.06 +362.05	9 28 12.4 − 2551.7	419316 − 864	35	20	70	13.8
13	39 30.79 360.73	10 10 7.6 2515.2	417879 1437	35	21	66	15.8
14	45 30.34 359.55	10 51 24.9 2477.3	415885 1994	36	21	62	17.9
15	51 28.84 358.50	11 32 2.9 2438.0	413346 2539 3074	36	23	58	19.9
	357.60	2397.5					
16	13 57 26.44	− 12 12 0.4	1.410272	2.37	6.24	−0.54	12 21.9
17	14 3 23.30 +356.86	12 51 16.2 − 2355.8	406670 − 3602	38	26	51	23.9
18	9 19.52 356.22	13 29 48.9 2312.7	402549 4121	38	27	48	25.9
19	15 15.18 355.66	14 7 37.0 2268.1	397915 4634	39	30	45	27.9
20	21 10.39 355.21	14 44 39.5 2222.5	392772 5143 5649	40	32	42	29.9
	354.87	2175.8					
21	14 27 5.26	− 15 20 55.3	1.387123	2.41	6.35	−0.40	12 31.8
22	32 59.87 +354.61	15 56 23.3 − 2128.0	380972 − 6151	42	37	37	33.8
23	38 54.28 354.41	16 31 2.2 2078.9	374323 6649	43	41	35	35.8
24	44 48.55 354.27	17 4 50.7 2028.5	367175 7148	44	44	33	37.7
25	50 42.71 354.16	17 37 47.7 1977.0	359526 7649 8151	45	48	31	39.7
	354.07	1924.2					
26	14 56 36.78	− 18 9 51.9	1.351375	2.47	6.51	−0.29	12 41.6
27	15 2 30.77 +353.99	18 41 2.1 − 1870.2	342718 − 8657	48	56	28	43.6
28	8 24.66 353.89	19 11 16.9 1814.8	333552 9166	50	60	26	45.6
29	14 18.40 353.74	19 40 34.7 1757.8	323875 9677	52	65	25	47.5
30	20 11.92 353.52	20 8 54.2 1699.5	313681 10194	54	70	24	49.5
31	26 5.14 353.22	20 36 14.3 1640.1	302967 10714	57	75	23	51.4
	+352.79	1579.0	− 11242				
11 1	15 31 57.93	−21 2 33.3	1.291725	2.59	6.81	−0.22	12 53.3

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11 1	15 31 57.93	−21 2 33.3	1.291725	2.59	6.81	−0.22	12 53.3
2	37 50.15 +352.22	27 49.5 − 1516.2	279950 −11775	61	87	21	55.3
3	43 41.59 351.44	21 52 1.4 1451.9	267634 12316	64	6.94	20	57.2
4	49 32.00 350.41	22 15 7.5 1386.1	254772 12852	66	7.01	20	12 59.1
5	15 55 21.13 349.13	37 6.2 1318.7	241358 13414 13970	69	09	19	13 0.9
	347.53	1249.5					
6	16 1 8.66	−22 57 55.7	1.227388	2.72	7.17	−0.18	13 2.8
7	6 54.19 +345.53	23 17 34.2 − 1178.5	212853 −14535	76	25	18	4.6
8	12 37.27 343.08	36 0.0 1105.8	197746 15107	79	34	17	6.3
9	18 17.37 340.10	23 53 11.4 1031.4	182061 15685	83	44	17	8.0
10	23 53.91 336.54	24 9 6.6 955.2	165794 16267 16850	87	54	17	9.6
	332.28	877.0					
11	16 29 26.19	−24 23 43.6	1.148944	2.91	7.65	−0.16	13 11.2
12	34 53.42 +327.23	37 0.4 − 796.8	131515 −17429	2.95	77	16	12.6
13	40 14.70 321.28	48 55.2 714.8	113505 18010	3.00	7.90	15	14.0
14	45 29.00 314.30	24 59 26.4 631.2	094916 18589	03	8.04	14	15.2
15	50 35.13 306.13	25 8 31.8 545.4	075759 19157 19711	10	18	13	16.3
	296.63	457.6					
16	16 55 31.76	−25 16 9.4	1.056048	3.16	8.34	−0.12	13 17.2
17	17 0 17.38 +285.62	22 17.4 − 368.0	035803 −20245	22	50	10	17.9
18	4 50.31 272.93	26 53.9 276.5	1.015049 20754	29	67	08	18.4
19	9 8.60 258.29	29 57.0 − 183.1	0.993823 21226	36	8.86	06	18.6
20	13 10.12 241.52	31 24.7 − 87.7	972172 21651 22018	44	9.05	−0.03	18.5
	222.34	+ 9.8					
21	17 16 52.46	−25 31 14.9	0.950154	3.52	9.26	+0.01	13 18.0
22	20 13.01 +200.55	29 25.6 + 109.3	927841 −22313	60	48	06	17.2
23	23 8.83 175.82	25 54.4 211.2	905326 22515	69	72	11	15.9
24	25 36.83 148.00	20 38.7 315.7	882723 22603	78	9.97	18	14.2
25	27 33.63 116.80	13 35.7 423.0	860167 22556 22347	88	10.23	26	11.9
	82.23	533.3					
26	17 28 55.86	−25 4 42.4	0.837820	3.99	10.51	+0.35	13 9.0
27	29 40.02 + 44.16	24 53 55.5 + 646.9	815374 −21946	4.09	10.79	46	5.4
28	29 42.89 + 2.87	41 11.7 763.8	794550 21324	20	11.08	59	13 1.1
29	29 1.53 − 41.36	26 27.1 884.6	774103 20447	31	37	74	12 56.1
30	27 33.79 87.74	24 9 38.9 1008.2	754813 19290 17821	42	67	0.92	50.3
	135.18	1133.8					
12 1	17 25 18.61	−23 50 45.1	0.736992	4.53	11.95	+1.13	12 43.7
2	22 16.22 −182.39	29 46.8 + 1258.3	720960 −16032	63	12.21	36	36.3
3	18 29.05 227.17	23 6 49.2 1377.6	707051 13909	72	45	1.61	28.3
4	14 1.17 267.88	22 42 2.6 1486.6	695582 11469	80	65	2.02	19.6
5	8 59.57 301.60	22 15 46.0 1576.6	686841 8741 5774	85	80	38	10.5
	326.90	1641.7					
6	17 3 32.67	−21 48 24.3	0.681067	4.90	12.91	+2.67	12 1.1
7	16 57 51.22 −341.45	21 20 34.8 + 1669.5	678422 − 2645	92	97	90	11 51.5
8	52 6.62 344.60	20 52 58.4 1656.4	678996 + 574	91	95	73	41.9
9	46 30.46 335.16	26 22.0 1596.4	682763 3772	89	87	49	32.6
10	41 13.88 316.58	20 1 31.9 1490.1	689612 6874 9781	84	75	2.18	23.7
	287.95	1342.9					
11	16 36 25.93	−19 39 9.0	0.699423	4.78	12.58	+1.80	11 15.3
12	32 14.36 −251.57	19 49.5 + 1159.5	711861 +12438	69	36	53	7.5
13	28 43.99 210.37	19 3 56.0 953.5	726655 14794	60	12.11	28	11 0.4
14	25 58.07 165.92	18 51 43.7 732.3	743477 16822	49	11.84	1.05	10 54.1
15	23 57.53 120.54	43 15.1 508.6	761995 18518 19883	38	55	0.83	48.5
	75.54	289.6					
16	16 22 41.99	−18 38 25.5	0.781878	4.27	11.26	+0.66	10 43.6
17	22 9.84 − 32.15	37 2.5 + 83.0	802823 +20945	16	10.97	51	39.5
18	22 18.64 + 8.80	38 49.2 − 106.7	824548 21725	4.05	68	38	36.0
19	23 5.59 46.95	43 26.4 277.2	845806 22258	3.94	39	28	33.1
20	24 27.56 81.97	50 32.7 426.3	869377 22571 22699	84	10.12	19	30.7
	113.95	554.6					
21	16 26 21.51	−18 59 47.3	0.892076	3.74	9.87	+0.12	10 28.9
22	28 44.37 +142.86	19 10 49.1 − 661.8	914743 +22667	65	62	+0.05	27.5
23	31 33.34 168.97	23 18.9 749.8	937251 22508	56	39	0.00	26.6
24	34 45.74 192.40	36 58.2 819.3	959497 22245	48	9.17	−0.04	26.0
25	38 19.18 213.44	19 51 30.6 872.4	0.981389 21892 21464	40	8.97	08	25.7
	232.27	910.5					
26	16 42 11.45	−20 6 41.1	1.002853	3.33	8.78	−0.11	10 25.8
27	46 20.61 +249.16	22 16.3 − 935.2	023838 +20985	26	60	13	26.1
28	50 44.94 264.33	38 4.3 948.0	044305 20467	20	43	15	26.7
29	16 55 22.89 277.95	20 53 54.4 950.1	064221 19916	14	27	17	27.4
30	17 0 13.10 290.21	21 9 36.9 942.5	083565 19344	08	8.12	18	28.4
31	5 14.38 301.28	25 3.6 − 926.7	102321 18756 +18157	3.03	7.98	19	29.6
	+311.27	903.8					
12 32	17 10 25.65	−21 40 7.4	1.120478	2.98	7.85	−0.20	10 30.9

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	h m s	s	° ′ ″	″		″	″		h m
1 1	21 49 26.90	+265.84	−14 57 56.8	+1552.6	0.932861 − 7027	9.02	9.43	−3.76	15 8.6
2	53 52.74	264.11	32 4.2	1572.5	925834 − 7044	09	51	76	9.1
3	21 58 16.85	262.39	14 5 51.7	1591.6	918790 − 7060	16	58	77	9.6
4	22 2 39.24	260.69	13 39 20.1	1609.9	911730 − 7077	23	65	78	10.0
5	6 59.93	258.99	13 12 30.2	1627.5	904653 − 7092	30	73	79	10.3
6	22 11 18.92	+257.30	−12 45 22.7	+1644.2	0.897561 − 7109	9.38	9.80	−3.80	15 10.7
7	15 36.22	255.62	12 17 58.5	1660.2	890452 − 7124	45	88	81	11.0
8	19 51.84	253.97	11 50 18.3	1675.3	883328 − 7140	53	9.96	81	11.3
9	24 5.81	252.32	11 22 23.0	1689.7	876188 − 7156	60	10.04	82	11.6
10	28 18.13	250.68	10 54 13.3	1703.3	869032 − 7171	68	13	83	11.9
11	22 32 28.81	+249.05	−10 25 50.0	+1716.1	0.861861 − 7187	9.76	10.21	−3.84	15 12.1
12	36 37.86	247.43	9 57 13.9	1728.1	854674 − 7202	84	30	85	12.3
13	40 45.29	245.83	9 28 25.8	1739.5	847472 − 7218	9.93	39	86	12.4
14	44 51.12	244.23	8 59 26.3	1750.0	840254 − 7234	10.01	48	87	12.6
15	48 55.35	242.62	30 16.3	1759.7	833020 − 7250	10	57	87	12.7
16	22 52 57.97	+241.04	− 8 0 56.6	+1768.5	0.825770 − 7264	10.19	10.66	−3.88	15 12.8
17	22 56 59.01	239.45	7 31 28.1	1776.5	818506 − 7280	28	76	89	12.8
18	23 0 58.46	237.84	7 1 51.6	1783.8	811226 − 7294	37	85	90	12.8
19	4 56.30	236.27	6 32 7.8	1790.4	803932 − 7308	46	10.95	91	12.9
20	8 52.57	234.67	6 2 17.4	1796.1	796624 − 7323	56	11.05	92	12.8
21	23 12 47.24	+233.08	− 5 32 21.3	+1800.9	0.789301 − 7335	10.66	11.15	−3.93	15 12.8
22	16 40.32	231.49	5 2 20.4	1805.0	781966 − 7347	76	26	94	12.7
23	20 31.81	229.90	4 32 15.4	1808.4	774619 − 7359	86	36	95	12.6
24	24 21.71	228.30	4 2 7.0	1811.0	767260 − 7370	10.97	47	96	12.5
25	28 10.01	226.71	3 31 56.0	1812.8	759890 − 7381	11.07	58	97	12.3
26	23 31 56.72	+225.10	− 3 1 43.2	+1813.9	0.752509 − 7389	11.18	11.69	−3.98	15 12.1
27	35 41.82	223.51	2 31 29.3	1814.2	745120 − 7398	29	81	98	11.9
28	39 25.33	221.90	2 1 15.1	1813.7	737722 − 7405	40	11.93	3.99	11.7
29	43 7.23	220.28	1 31 1.4	1812.5	730317 − 7413	51	12.05	4.00	11.4
30	46 47.51	218.67	1 0 48.9	1810.6	722904 − 7418	63	17	01	11.2
31	50 26.18	217.03	0 30 38.3	1807.9	715486 − 7424	75	30	02	10.8
2 1	23 54 3.21	+215.40	− 0 0 30.4	+1804.6	0.708062	11.87	12.43	−4.03	15 10.5
2	23 57 38.61	213.73	+ 0 29 34.2	1800.5	700633 − 7429	12.00	56	04	10.1
3	0 1 12.34	212.06	0 59 34.7	1795.6	693200 − 7433	13	69	05	9.7
4	4 44.40	210.36	1 29 30.3	1790.1	685764 − 7436	26	83	06	9.3
5	8 14.76	208.65	1 59 20.4	1783.9	678325 − 7439	40	12.97	07	8.8
6	0 11 43.41	+206.89	+ 2 29 4.3	+1776.9	0.670884 − 7441	12.53	13.11	−4.08	15 8.4
7	15 10.30	205.11	2 58 41.2	1769.2	663442 − 7442	68	26	09	7.9
8	18 35.41	203.31	3 28 10.4	1760.8	655999 − 7443	82	41	10	7.3
9	21 58.72	201.46	3 57 31.2	1751.6	648556 − 7443	12.97	57	11	6.7
10	25 20.18	199.57	4 26 42.8	1741.7	641114 − 7442	13.12	72	12	6.1
11	0 28 39.75	+197.62	+ 4 55 44.5	+1731.1	0.633673 − 7441	13.27	13.89	−4.13	15 5.5
12	31 57.37	195.63	5 24 35.6	1719.7	626234 − 7439	43	14.05	14	4.8
13	35 13.00	193.57	5 53 15.3	1707.6	618797 − 7437	59	22	15	4.1
14	38 26.57	191.43	6 21 42.9	1694.6	611364 − 7433	76	39	16	3.4
15	41 38.00	189.23	6 49 57.5	1680.8	603936 − 7428	13.93	57	17	2.6
16	0 44 47.23	+186.95	+ 7 17 58.3	+1666.2	0.596514 − 7422	14.10	14.75	−4.18	15 1.8
17	47 54.18	184.56	7 45 44.5	1650.7	589099 − 7415	28	14.94	18	1.0
18	50 58.74	182.10	8 13 15.2	1634.3	581692 − 7407	46	15.13	19	15 0.1
19	54 0.84	179.53	8 40 29.5	1617.1	574294 − 7398	65	33	20	14 59.1
20	57 0.37	176.86	9 7 26.6	1599.1	566909 − 7385	14.84	53	21	58.1
21	0 59 57.23	+174.10	+ 9 34 5.7	+1580.1	0.559537 − 7372	15.03	15.73	−4.22	14 57.1
22	1 2 51.33	171.21	10 0 25.8	1560.2	552180 − 7357	23	15.94	23	56.0
23	5 42.54	168.21	26 26.0	1539.4	544841 − 7339	43	16.15	23	54.9
24	8 30.75	165.09	10 52 5.4	1517.7	537521 − 7320	64	37	24	53.8
25	11 15.84	161.83	11 17 23.1	1495.1	530223 − 7298	15.86	60	25	52.5
26	1 13 57.67	+158.44	+11 42 18.2	+1471.5	0.522950 − 7273	16.08	16.83	−4.26	14 51.3
27	16 36.11	154.91	12 6 49.7	1447.0	515703 − 7247	31	17.07	27	49.9
28	19 11.02	+151.24	30 56.7	+1421.4	508485 − 7218	54	31	27	48.5
3 1	1 21 42.26		+12 54 38.1		0.501299 − 7186	16.78	17.56	−4.28	14 47.1

月 日	世界時 0h 赤経		赤緯		地心距離	視半径	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″		″	″		h m
3 1	1 21 42.26	+147.40	+12 54 38.1	+1394.9	0.501299 − 7153	16.78	17.56	−4.28	14 47.1
2	24 9.66	143.40	13 17 53.0	1367.3	494146 − 7115	17.02	17.81	28	45.5
3	26 33.06	139.24	13 40 40.3	1338.6	487031 − 7076	27	18.07	29	43.9
4	28 52.30	134.90	14 2 58.9	1308.8	479955 − 7033	52	33	29	42.3
5	31 7.20	130.37	24 47.7	1277.8	472922 − 6988	17.78	61	30	40.5
6	1 33 17.57	+125.65	+14 46 5.5	+1245.6	0.465934 − 6939	18.05	18.89	−4.30	14 38.7
7	35 23.22	120.73	15 6 51.1	1212.2	458995 − 6887	32	19.18	31	36.8
8	37 23.95	115.60	27 3.3	1177.5	452108 − 6831	60	47	31	34.9
9	39 19.55	110.26	15 46 40.8	1141.4	445277 − 6773	18.89	19.77	31	32.8
10	41 9.81	104.69	16 5 42.2	1103.8	438504 − 6710	19.18	20.08	31	30.6
11	1 42 54.50	+98.88	+16 24 6.0	+1064.8	0.431794 − 6644	19.48	20.39	−4.31	14 28.4
12	44 33.38	92.83	41 50.8	1024.1	425150 − 6573	19.79	20.71	31	26.0
13	46 6.21	86.52	16 58 54.9	981.8	418577 − 6500	20.10	21.03	31	23.6
14	47 32.73	79.95	17 15 16.7	937.5	412077 − 6419	42	36	31	21.0
15	48 52.68	73.13	30 54.2	891.3	405658 − 6336	20.74	21.70	30	18.3
16	1 50 5.81	+66.06	+17 45 45.5	+843.2	0.399322 − 6247	21.07	22.04	−4.30	14 15.5
17	51 11.87	58.72	17 59 48.7	792.8	393075 − 6151	40	39	29	12.6
18	52 10.59	51.12	18 13 1.5	740.2	386924 − 6050	21.74	22.74	28	9.6
19	53 1.71	43.26	25 21.7	685.2	380874 − 5943	22.08	23.10	27	6.4
20	53 44.97	35.16	36 46.9	627.9	374931 − 5828	43	47	26	14 3.1
21	1 54 20.13	+26.84	+18 47 14.8	+567.9	0.369103 − 5707	22.79	23.84	−4.24	13 59.7
22	54 46.97	18.31	18 56 42.7	505.3	363396 − 5578	23.14	24.22	23	56.1
23	55 5.28	9.60	19 5 8.0	440.2	357818 − 5441	51	60	21	52.4
24	55 14.88	0.72	12 28.2	372.4	352377 − 5297	23.87	24.98	19	48.6
25	55 15.60	− 8.28	18 40.6	301.8	347080 − 5144	24.23	25.36	17	44.6
26	1 55 7.32	−17.36	+19 23 42.4	+228.5	0.341936 − 4983	24.60	25.74	−4.14	13 40.4
27	54 49.96	26.49	27 30.9	152.7	336953 − 4813	24.96	26.12	11	36.1
28	54 23.47	35.63	30 3.6	74.4	332140 − 4634	25.32	50	08	31.7
29	53 47.84	44.71	31 18.0	− 6.5	327506 − 4447	25.68	26.88	05	27.1
30	53 3.13	53.68	31 11.5	89.5	323059 − 4250	26.03	27.25	4.01	22.3
31	52 9.45	62.49	29 42.0	174.4	318809 − 4043	38	61	3.97	17.4
4 1	1 51 6.96	−71.08	+19 26 47.6	−261.1	0.314766 − 3828	26.72	27.96	−3.93	13 12.4
2	49 55.88	79.35	22 26.5	349.0	310938 − 3605	27.05	28.30	88	7.2
3	48 36.53	87.24	16 37.5	437.8	307333 − 3372	37	63	83	13 1.8
4	47 9.29	94.71	9 19.7	527.0	303961 − 3129	67	28.95	78	12 56.4
5	45 34.58	101.68	19 0 32.7	616.0	300832 − 2880	27.96	29.25	72	50.8
6	1 43 52.90	−108.05	+18 50 16.7	− 704.2	0.297952 − 2622	28.23	29.54	−3.65	12 45.2
7	42 4.85	113.77	38 32.5	790.8	295330 − 2357	48	29.80	59	39.4
8	40 11.08	118.79	25 21.7	875.2	292973 − 2084	71	30.04	52	33.6
9	38 12.29	123.07	18 10 46.5	956.7	290889 − 1806	28.92	26	45	27.6
10	36 9.22	126.54	17 54 49.8	1034.4	289083 − 1521	29.10	30.45	38	21.6
11	1 34 2.68	−129.17	+17 37 35.4	−1107.8	0.287562 − 1232	29.25	30.61	−3.31	12 15.6
12	31 53.51	130.94	17 19 7.6	1176.2	286330 − 938	37	74	24	9.5
13	29 42.57	131.83	16 59 31.4	1238.7	285392 − 641	47	84	18	12 3.4
14	27 30.74	131.82	38 52.7	1294.7	284751 − 341	53	91	13	11 57.3
15	25 18.92	130.90	16 17 18.0	1343.5	284410 − 38	57	94	10	51.1
16	1 23 8.02	−129.09	+15 54 54.5	−1384.8	0.284372 + 264	29.57	30.95	−3.08	11 45.1
17	20 58.93	126.42	31 49.7	1418.4	284636 568	55	92	08	39.0
18	18 52.51	122.89	15 8 11.3	1443.6	285204 870	49	85	11	33.0
19	16 49.62	118.57	14 44 7.7	1460.3	286074 1171	40	76	16	27.1
20	14 51.05	113.51	14 19 47.4	1468.5	287245 1468	28	63	21	21.2
21	1 12 57.54	−107.74	+13 55 18.9	−1468.2	0.288713 + 1762	29.13	30.48	−3.28	11 15.5
22	11 9.80	101.34	30 50.7	1459.9	290475 2052	28.95	29	35	9.8
23	9 28.46	94.38	13 6 30.8	1443.7	292527 2334	75	30.08	41	11 4.3
24	7 54.08	86.93	12 42 27.1	1419.9	294861 2612	53	29.85	48	10 58.8
25	6 27.15	79.04	12 18 47.2	1388.8	297473 2882	28	59	55	53.5
26	1 5 8.11	−70.81	+11 55 38.4	−1351.5	0.300355 + 3145	28.01	29.30	−3.61	10 48.3
27	3 57.30	62.30	33 6.9	1308.6	303500 3399	27.71	29.00	67	43.3
28	2 55.00	53.58	11 11 18.3	1260.3	306899 3645	41	28.68	73	38.4
29	2 1.42	44.70	10 50 18.0	1207.2	310544 3883	27.08	28.34	78	33.6
30	1 16.72	− 35.73	30 10.8	−1150.2	314427 + 4112	26.74	27.99	83	29.0
5 1	1 0 40.99		+10 11 0.6		0.318539	26.40	27.63	−3.87	10 24.6

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	h m s	s	° ′ ″	″			″	″		h m
5 1	1 0 40.99	− 26.72	+10 11 0.6	− 1089.9	0.318539		26.40	27.63	−3.87	10 24.6
2	1 0 14.27	17.71	9 52 50.7	1027.0	322871	+ 4332	26.04	27.26	91	20.3
3	0 59 56.56	8.75	35 43.7	961.8	327413	4542	25.68	26.88	95	16.1
4	59 47.81	− 0.10	19 41.9	895.1	332156	4743	25.32	50	3.99	12.1
5	59 47.91	8.82	9 4 46.8	827.4	337091	4935	24.95	26.12	4.02	8.2
						5117				
6	0 59 56.73		+ 8 50 59.4	− 758.8	0.342208		24.58	25.73	−4.05	10 4.5
7	1 0 14.12	+ 17.39	38 20.6	690.2	347500	+ 5292	24.21	25.33	07	10 0.9
8	0 39.89	25.77	26 50.4	621.8	352957	5457	23.84	24.94	09	9 57.4
9	1 13.85	33.96	16 28.6	553.9	358573	5616	46	55	12	54.1
10	1 55.77	41.92	8 7 14.7	486.7	364337	5764	23.09	24.16	13	51.0
		49.66				5907				
11	1 2 45.43		+ 7 59 8.0	− 420.7	0.370244		22.72	23.77	−4.15	9 47.9
12	3 42.59	+ 57.16	52 7.3	355.8	376285	+ 6041	22.35	39	16	45.0
13	4 47.01	64.42	46 11.5	292.3	382453	6168	21.99	23.01	18	42.1
14	5 58.46	71.45	41 19.2	230.2	388744	6291	63	22.64	19	39.4
15	7 16.70	78.24	37 29.0	169.7	395150	6406	21.28	22.27	19	36.8
		84.79				6516				
16	1 8 41.49		+ 7 34 39.3	− 110.9	0.401666		20.94	21.91	−4.20	9 34.4
17	10 12.61	+ 91.12	32 48.4	53.7	408286	+ 6620	60	56	20	32.0
18	11 49.86	97.25	31 54.7	1.8	415004	6718	20.27	21.21	21	29.7
19	13 33.01	103.15	31 56.5	55.4	421816	6812	19.94	20.87	21	27.5
20	15 21.85	108.84	32 51.9	107.3	428717	6901	62	54	21	25.4
		114.33				6985				
21	1 17 16.18		+ 7 34 39.2	− 157.4	0.435703		19.31	20.21	−4.21	9 23.4
22	19 15.82	+ 119.64	37 16.6	205.8	442768	+ 7065	19.00	19.89	21	21.5
23	21 20.58	124.76	40 42.4	252.3	449907	7139	18.70	57	21	19.7
24	23 30.27	129.69	44 54.7	296.9	457117	7210	40	19.26	21	17.9
25	25 44.71	134.44	49 51.6	339.9	464395	7278	18.11	18.96	21	16.3
		139.03				7339				
26	1 28 3.74		+ 7 55 31.5	− 381.1	0.471734		17.83	18.66	−4.20	9 14.7
27	30 27.21	+ 143.47	8 1 52.6	420.5	479133	+ 7399	55	37	20	13.2
28	32 54.95	147.74	8 53.1	458.2	486588	7455	28	18.09	19	11.7
29	35 26.82	151.87	16 31.3	494.2	494094	7506	17.02	17.81	19	10.3
30	38 2.68	155.86	24 45.5	528.5	501648	7554	16.76	54	18	9.0
31	40 42.39	159.71	33 34.0	561.1	509248	7600	51	28	17	7.7
		163.43				7642				
6 1	1 43 25.82		+ 8 42 55.1	− 592.1	0.516890		16.27	17.02	−4.17	9 6.5
2	46 12.85	+ 167.03	8 52 47.2	621.4	524570	+ 7680	16.03	16.77	16	5.4
3	49 3.35	170.50	9 3 8.6	649.2	532286	7716	15.80	53	15	4.3
4	51 57.20	173.85	13 57.8	675.4	540035	7749	57	29	14	3.3
5	54 54.31	177.11	25 13.2	699.9	547814	7779	35	16.06	13	2.3
		180.25				7808				
6	1 57 54.56		+ 9 36 53.1	− 723.0	0.555622		15.14	15.83	−4.13	9 1.4
7	2 0 57.85	+ 183.29	9 48 56.1	744.5	563454	+ 7832	14.93	61	12	9 0.6
8	4 4.08	186.23	10 1 20.6	764.5	571310	7856	72	40	11	8 59.7
9	7 13.16	189.08	14 5.1	783.2	579187	7877	52	15.19	10	59.0
10	10 25.01	191.85	27 8.3	800.4	587083	7896	33	14.99	09	58.2
		194.54				7915				
11	2 13 39.55		+10 40 28.7	− 816.2	0.594998		14.14	14.79	−4.08	8 57.6
12	16 56.70	+ 197.15	10 54 4.9	830.7	602929	+ 7931	13.95	59	07	56.9
13	20 16.40	199.70	11 7 55.6	843.9	610875	7946	77	40	06	56.3
14	23 38.58	202.18	21 59.5	855.9	618835	7960	59	22	05	55.7
15	27 3.20	204.62	36 15.4	866.7	626807	7972	42	14.04	04	55.2
		207.00				7983				
16	2 30 30.20		+11 50 42.1	− 876.2	0.634790		13.25	13.86	−4.03	8 54.8
17	33 59.54	+ 209.34	12 5 18.3	884.6	642783	+ 7993	13.08	69	02	54.3
18	37 31.17	211.63	20 2.9	891.8	650785	8002	12.92	52	01	53.9
19	41 5.05	213.88	34 54.7	897.9	658795	8010	76	36	4.00	53.5
20	44 41.14	216.09	12 49 52.6	902.9	666811	8016	61	20	3.99	53.2
		218.27				8021				
21	2 48 19.41		+13 4 55.5	− 906.9	0.674832		12.46	13.04	−3.98	8 52.9
22	51 59.83	+ 220.42	20 2.4	909.7	682858	+ 8026	32	12.89	97	52.7
23	55 42.36	222.53	35 12.1	911.4	690885	8027	18	74	96	52.5
24	2 59 26.98	224.62	13 50 23.5	912.2	698915	8030	12.04	59	95	52.3
25	3 3 13.67	226.69	14 5 35.7	911.8	706945	8030	11.90	45	94	52.1
		228.73				8030				
26	3 7 2.40		+14 20 47.5	− 910.5	0.714975		11.76	12.31	−3.93	8 52.0
27	10 53.13	+ 230.73	35 58.0	908.2	723003	+ 8028	63	17	92	51.9
28	14 45.85	232.72	14 51 6.2	904.9	731027	8024	50	12.04	91	51.9
29	18 40.54	234.69	15 6 11.1	900.6	739047	8020	38	11.91	90	51.8
30	22 37.17	236.63	21 11.7	895.3	747062	8015	25	78	89	51.9
		+238.55				+ 8008				
7 1	3 26 35.72		+15 36 7.0		0.755070		11.14	11.65	−3.88	8 51.9

月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
7 1	3 26 35.72		+15 36 7.0	+888.9	0.755070		11.14	11.65	−3.88	8 51.9
2	30 36.16	+ 240.44	15 50 55.9	881.7	763070	+ 8000	11.02	53	87	52.0
3	34 38.47	242.31	16 5 37.6	873.4	771060	7990	10.91	41	87	52.1
4	38 42.63	244.16	20 11.0	864.2	779041	7981	80	29	86	52.2
5	42 48.60	245.97	34 35.2	854.2	787009	7968	69	18	85	52.4
		247.76				7957				
6	3 46 56.36		+16 48 49.4	+843.1	0.794966		10.58	11.07	−3.84	8 52.6
7	51 5.89	+ 249.53	17 2 52.5	831.1	802909	+ 7943	48	10.96	83	52.8
8	55 17.15	251.26	16 43.6	818.2	810839	7930	37	85	82	53.1
9	3 59 30.11	252.96	30 21.8	804.5	818755	7916	27	74	81	53.4
10	4 3 44.76	254.65	43 46.3	789.8	826655	7900	17	64	80	53.7
		256.32				7885				
11	4 8 1.08		+17 56 56.1	+774.4	0.834540		10.08	10.54	−3.79	8 54.0
12	12 19.03	+ 257.95	18 9 50.5	758.0	842409	+ 7869	9.98	45	79	54.4
13	16 38.59	259.56	22 28.5	740.9	850262	7853	89	35	78	54.8
14	20 59.74	261.15	34 49.4	723.0	858099	7837	80	26	77	55.2
15	25 22.46	262.72	46 52.4	704.3	865920	7821	71	17	76	55.6
		264.28				7803				
16	4 29 46.74		+18 58 36.7	+684.9	0.873723		9.63	10.08	−3.75	8 56.1
17	34 12.54	+ 265.80	19 10 1.6	664.7	881508	+ 7785	54	9.99	75	56.6
18	38 39.84	267.30	21 6.3	643.6	889275	7767	46	90	74	57.1
19	43 8.62	268.78	31 49.9	622.3	897024	7749	38	81	73	57.7
20	47 38.86	270.24	42 12.2	599.7	904754	7730	30	73	72	58.2
		271.67				7710				
21	4 52 10.53		+19 52 11.9	+576.7	0.912464		9.22	9.64	−3.71	8 58.8
22	4 56 43.60	+ 273.07	20 1 48.6	553.0	920154	+ 7690	14	56	70	8 59.4
23	5 1 18.05	274.45	11 1.6	528.5	927824	7670	9.07	48	70	9 0.1
24	5 53.85	275.80	19 50.1	503.5	935474	7650	8.99	41	69	0.7
25	10 30.97	277.12	28 13.6	477.8	943102	7628	92	33	68	1.4
		278.42				7606				
26	5 15 9.39		+20 36 11.4	+451.5	0.950708		8.85	9.26	−3.68	9 2.1
27	19 49.08	+ 279.69	43 42.9	424.7	958291	+ 7583	78	19	67	2.9
28	24 29.99	280.91	50 47.6	397.1	965851	7560	71	11	66	3.6
29	29 12.10	282.11	20 57 24.7	369.1	973386	7535	65	9.04	66	4.4
30	33 55.37	283.27	21 3 33.8	340.5	980895	7509	58	8.97	65	5.2
31	38 39.75	284.38	9 14.3	311.4	988379	7484	51	90	64	6.0
		285.45				7457				
8 1	5 43 25.20		+21 14 25.7	+281.7	0.995836		8.45	8.84	−3.63	9 6.8
2	48 11.68	+ 286.48	19 7.4	251.6	1.003266	+ 7430	38	77	63	7.6
3	52 59.15	287.47	23 19.0	221.0	010668	7402	32	71	62	8.5
4	5 57 47.57	288.42	27 0.0	189.9	018042	7374	26	65	62	9.4
5	6 2 36.88	289.31	30 9.9	158.4	025386	7344	20	58	61	10.2
		290.14				7315				
6	6 7 27.02		+21 32 48.3	+126.5	1.032701		8.15	8.52	−3.60	9 11.1
7	12 17.94	+ 290.92	34 54.8	94.3	039986	+ 7285	09	46	60	12.1
8	17 9.60	291.66	36 29.1	61.8	047241	7255	8.03	40	59	13.0
9	22 1.95	292.35	37 30.9	+ 28.8	054466	7225	7.98	34	59	13.9
10	26 54.93	292.98	37 59.7	− 4.3	061660	7194	92	29	58	14.9
		293.58				7164				
11	6 31 48.51		+21 37 55.4	− 37.7	1.068824		7.87	8.23	−3.57	9 15.8
12	36 42.64	+ 294.13	37 17.7	71.3	075958	+ 7134	82	18	57	16.8
13	41 37.26	294.62	36 6.4	105.2	083061	7103	77	13	56	17.7
14	46 32.32	295.06	34 21.2	139.2	090132	7071	72	08	56	18.7
15	51 27.78	295.46	32 2.0	173.4	097173	7041	67	8.03	55	19.7
		295.82				7010				
16	6 56 23.60		+21 29 8.6	−207.7	1.104183		7.62	7.98	−3.55	9 20.7
17	7 1 19.73	+ 296.13	25 40.9	242.0	111161	+ 6978	57	93	54	21.7
18	6 16.12	296.39	21 38.9	276.6	118108	6947	53	88	54	22.7
19	11 12.72	296.60	17 2.3	311.1	125023	6915	48	83	53	23.7
20	16 9.49	296.77	11 51.2	345.6	131907	6884	43	78	53	24.7
		296.90				6851				
21	7 21 6.39		+21 6 5.6	−380.1	1.138758		7.39	7.73	−3.52	9 25.7
22	26 3.37	+ 296.98	20 59 45.5	414.7	145578	+ 6820	34	69	52	26.7
23	31 0.39	297.02	52 50.8	449.2	152365	6787	30	64	51	27.7
24	35 57.42	297.03	45 21.6	483.5	159119	6754	26	59	51	28.7
25	40 54.41	296.99	37 18.1	517.9	165840	6721	21	55	50	29.7
		296.91				6687				
26	7 45 51.32		+20 28 40.2	−552.0	1.172527		7.17	7.50	−3.50	9 30.7
27	50 48.11	+ 296.79	19 28.2	586.1	179178	+ 6651	13	46	50	31.8
28	7 55 44.75	296.64	20 9 42.1	620.0	185794	6616	09	42	49	32.8
29	8 0 41.19	296.44	19 59 22.1	653.7	192375	6581	05	38	49	33.8
30	5 37.40	296.21	48 28.4	687.1	198919	6544	7.02	34	49	34.7
31	10 33.33	295.93	37 1.3	−720.3	205426	6507	6.98	30	48	35.7
		+ 295.62				+ 6470				
9 1	8 15 28.95		+19 25 1.0		1.211896		6.94	7.26	−3.48	9 36.7

月 日	世界時 0h 赤經	赤緯	地心距離	視半徑	地平視差	等級	本初子午線正中時
	h m s s	° ′ ″ ″		″	″		h m
9 1	8 15 28.95 +295.27	+19 25 1.0 − 753.3	1.211896	6.94	7.26	−3.48	9 36.7
2	20 24.22 294.89	19 12 27.7 785.8	218328 + 6432	90	22	47	37.7
3	25 19.11 294.47	18 59 21.9 818.2	224722 6394	87	19	47	38.7
4	30 13.58 294.03	45 43.7 850.2	231077 6355	83	15	47	39.6
5	35 7.61 293.55	31 33.5 881.8	237394 6317	80	11	46	40.6
			6277				
6	8 40 1.16 +293.04	+18 16 51.7 − 913.0	1.243671	6.76	7.08	−3.46	9 41.5
7	44 54.20 292.51	18 1 38.7 943.8	249910 + 6239	73	04	46	42.5
8	49 46.71 291.97	17 45 54.9 974.2	256109 6199	70	7.01	45	43.4
9	54 38.68 291.40	29 40.7 1004.3	262270 6161	67	6.97	45	44.3
10	8 59 30.08 290.81	17 12 56.4 1033.7	268391 6121	63	94	45	45.2
			6083				
11	9 4 20.89 +290.20	+16 55 42.7 − 1062.7	1.274474	6.60	6.90	−3.44	9 46.1
12	9 11.09 289.59	38 0.0 1091.3	280517 + 6043	57	87	44	47.0
13	14 0.68 288.97	19 48.7 1119.4	286521 6004	54	84	44	47.9
14	18 49.65 288.33	16 1 9.3 1147.0	292487 5966	51	81	43	48.8
15	23 37.98 287.69	15 42 2.3 1174.0	298413 5926	48	78	43	49.6
			5888				
16	9 28 25.67 +287.05	+15 22 28.3 − 1200.5	1.304301	6.45	6.75	−3.43	9 50.5
17	33 12.72 286.40	15 2 27.8 1226.5	310150 + 5849	42	72	43	51.3
18	37 59.12 285.76	14 42 1.3 1252.0	315960 5810	39	69	42	52.1
19	42 44.88 285.11	14 21 9.3 1276.9	321730 5770	37	66	42	53.0
20	47 29.99 284.48	13 59 52.4 1301.2	327462 5732	34	63	42	53.8
			5693				
21	9 52 14.47 +283.86	+13 38 11.2 − 1325.0	1.333155	6.31	6.60	−3.42	9 54.5
22	9 56 58.33 283.23	13 16 6.2 1348.1	338808 + 5653	28	57	41	55.3
23	10 1 41.56 282.62	12 53 38.1 1370.7	344421 5613	26	55	41	56.1
24	6 24.18 282.02	30 47.4 1392.7	349995 5574	23	52	41	56.9
25	11 6.20 281.44	12 7 34.7 1414.2	355529 5534	20	49	41	57.6
			5492				
26	10 15 47.64 +280.86	+11 44 0.5 − 1434.8	1.361021	6.18	6.46	−3.41	9 58.4
27	20 28.50 280.29	11 20 5.7 1455.1	366471 + 5450	15	44	40	59.1
28	25 8.79 279.74	10 55 50.6 1474.6	371880 5409	13	41	40	9 59.8
29	29 48.53 279.20	31 16.0 1493.4	377247 5367	11	39	40	10 0.6
30	34 27.73 278.67	10 6 22.6 1511.7	382570 5323	08	36	40	1.3
			5281				
10 1	10 39 6.40 +278.17	+ 9 41 10.9 − 1529.2	1.387851	6.06	6.34	−3.40	10 2.0
2	43 44.57 277.68	9 15 41.7 1546.0	393088 + 5237	04	32	39	2.7
3	48 22.25 277.22	8 49 55.7 1562.3	398282 5194	6.02	30	39	3.3
4	52 59.47 276.76	8 23 53.4 1577.7	403433 5151	5.99	28	39	4.0
5	10 57 36.23 276.33	7 57 35.7 1592.5	408539 5106	97	25	39	4.7
			5063				
6	11 2 12.56 +275.93	+ 7 31 3.2 − 1606.7	1.413602	5.95	6.23	−3.39	10 5.3
7	6 48.49 275.55	7 4 16.5 1620.1	418621 + 5019	93	21	39	6.0
8	11 24.04 275.19	6 37 16.4 1632.8	423597 4976	91	18	38	6.6
9	15 59.23 274.87	6 10 3.6 1644.8	428529 4932	89	16	38	7.3
10	20 34.10 274.57	5 42 38.8 1656.2	433418 4889	87	14	38	7.9
			4845				
11	11 25 8.67 +274.30	+ 5 15 2.6 − 1666.8	1.438263	5.85	6.12	−3.38	10 8.5
12	29 42.97 274.05	4 47 15.8 1676.8	443064 + 4801	83	10	38	9.2
13	34 17.02 273.84	4 19 19.0 1686.0	447823 4759	81	08	38	9.8
14	38 50.86 273.66	3 51 13.0 1694.5	452539 4716	79	06	38	10.4
15	43 24.52 273.52	3 22 58.5 1702.3	457212 4673	77	04	38	11.0
			4630				
16	11 47 58.04 +273.41	+ 2 54 36.2 − 1709.4	1.461842	5.75	6.02	−3.37	10 11.7
17	52 31.45 273.34	2 26 6.8 1715.8	466430 + 4588	74	6.00	37	12.3
18	11 57 4.79 273.30	1 57 31.0 1721.5	470976 4546	72	5.98	37	12.9
19	12 1 38.09 273.29	28 49.5 1726.5	475480 4504	70	96	37	13.5
20	6 11.38 273.33	1 0 3.0 1730.7	479942 4462	69	94	37	14.1
			4420				
21	12 10 44.71 +273.42	+ 0 31 12.3 − 1734.4	1.484362	5.67	5.93	−3.37	10 14.7
22	15 18.13 273.53	+ 0 2 17.9 1737.3	488739 + 4377	65	91	37	15.3
23	19 51.66 273.68	− 0 26 39.4 1739.4	493074 4335	63	89	37	16.0
24	24 25.34 273.87	0 55 38.8 1740.8	497367 4293	61	88	37	16.6
25	28 59.21 274.09	1 24 39.6 1741.6	501616 4249	60	86	37	17.2
			4206				
26	12 33 33.30 +274.36	− 1 53 41.2 − 1741.5	1.505822	5.58	5.84	−3.37	10 17.8
27	38 7.66 274.67	2 22 42.7 1740.7	509985 + 4163	57	82	37	18.5
28	42 42.33 275.00	2 51 43.4 1739.2	514103 4118	55	81	37	19.1
29	47 17.33 275.37	3 20 42.6 1737.0	518178 4075	54	79	37	19.7
30	51 52.70 275.78	3 49 39.6 1733.9	522208 4030	53	78	36	20.4
31	12 56 28.48 +276.23	4 18 33.5 − 1730.1	526193 3985	52	76	36	21.0
			+ 3941				
11 1	13 1 4.71	− 4 47 23.6	1.530134	5.50	5.75	−3.36	10 21.7

月 日	世界時 0h 赤經	赤緯	地心距離	視半徑	地平視差	等級	本初子午線正中時
	h m s s	° ′ ″ ″		″	″		h m
11 1	13 1 4.71 +276.71	− 4 47 23.6 − 1725.6	1.530134	5.50	5.75	−3.36	10 21.7
2	5 41.42 277.21	5 16 9.2 1720.2	534030 + 3896	49	73	36	22.4
3	10 18.63 277.75	5 44 49.4 1714.1	537881 3851	47	72	36	23.1
4	14 56.38 278.34	6 13 23.5 1707.1	541687 3806	46	71	36	23.8
5	19 34.72 278.96	6 41 50.6 1699.4	545448 3761	44	69	36	24.5
			3717				
6	13 24 13.68 +279.61	− 7 10 10.0 − 1690.9	1.549165	5.43	5.68	−3.36	10 25.2
7	28 53.29 280.29	7 38 20.9 1681.7	552837 + 3672	42	67	36	25.9
8	33 33.58 281.00	8 6 22.6 1671.6	556465 3628	41	66	36	26.6
9	38 14.58 281.75	8 34 14.2 1660.8	560049 3584	40	65	36	27.4
10	42 56.33 282.53	9 1 55.0 1649.1	563588 3539	38	63	36	28.1
			3496				
11	13 47 38.86 +283.34	− 9 29 24.1 − 1636.7	1.567084	5.37	5.62	−3.36	10 28.9
12	52 22.20 284.19	9 56 40.8 1623.4	570536 + 3452	36	61	36	29.7
13	13 57 6.39 285.06	10 23 44.2 1609.5	573946 3410	34	60	36	30.5
14	14 1 51.45 285.96	10 50 33.7 1594.6	577313 3367	33	58	36	31.3
15	6 37.41 286.89	11 17 8.3 1579.0	580637 3324	32	57	36	32.1
			3282				
16	14 11 24.30 +287.86	−11 43 27.3 − 1562.6	1.583919	5.31	5.56	−3.36	10 33.0
17	16 12.16 288.85	12 9 29.9 1545.4	587160 + 3241	30	55	36	33.8
18	21 1.01 289.87	12 35 15.3 1527.5	590358 3198	29	53	37	34.7
19	25 50.88 290.92	13 0 42.8 1508.7	593515 3157	28	52	37	35.6
20	30 41.80 291.99	25 51.5 1489.2	596631 3116	27	51	37	36.5
			3074				
21	14 35 33.79 +293.09	−13 50 40.7 − 1468.8	1.599705	5.26	5.50	−3.37	10 37.5
22	40 26.88 294.21	14 15 9.5 1447.7	602737 + 3032	25	49	37	38.4
23	45 21.09 295.34	14 39 17.2 1425.9	605728 2991	24	48	37	39.4
24	50 16.43 296.49	15 3 3.1 1403.1	608677 2949	23	47	37	40.4
25	14 55 12.92 297.67	26 26.2 1379.6	611583 2906	22	46	37	41.4
			2865				
26	15 0 10.59 +298.85	−15 49 25.8 − 1355.3	1.614448	5.21	5.45	−3.37	10 42.4
27	5 9.44 300.03	16 12 1.1 1330.2	617270 + 2822	20	44	37	43.5
28	10 9.47 301.23	34 11.3 1304.2	620049 2779	19	43	37	44.5
29	15 10.70 302.44	16 55 55.5 1277.5	622785 2736	18	42	37	45.6
30	20 13.14 303.63	17 17 13.0 1250.1	625478 2693	17	41	37	46.7
			2650				
12 1	15 25 16.77 +304.83	−17 38 3.1 − 1221.8	1.628128	5.16	5.40	−3.37	10 47.9
2	30 21.60 306.04	17 58 24.9 1192.7	630735 + 2607	16	39	37	49.0
3	35 27.64 307.25	18 18 17.6 1162.9	633299 2564	15	38	38	50.2
4	40 34.89 308.44	37 40.5 1132.3	635820 2521	15	38	38	51.4
5	45 43.33 309.62	18 56 32.8 1101.0	638298 2478	14	37	38	52.6
			2435				
6	15 50 52.95 +310.80	−19 14 53.8 − 1068.8	1.640733	5.13	5.36	−3.38	10 53.8
7	15 56 3.75 311.95	32 42.6 1036.1	643126 + 2393	12	35	38	55.0
8	16 1 15.70 313.09	19 49 58.7 1002.6	645477 2351	11	35	38	56.3
9	6 28.79 314.21	20 6 41.3 968.4	647785 2308	10	34	38	57.6
10	11 43.00 315.30	22 49.7 933.5	650051 2266	09	34	38	10 58.9
			2225				
11	16 16 58.30 +316.37	−20 38 23.2 − 898.0	1.652276	5.09	5.33	−3.38	11 0.2
12	22 14.67 317.43	20 53 21.2 861.7	654460 + 2184	08	33	39	1.6
13	27 32.10 318.45	21 7 42.9 824.9	656602 2142	08	32	39	2.9
14	32 50.55 319.44	21 27.8 787.5	658704 2102	07	31	39	4.3
15	38 9.99 320.39	34 35.3 749.5	660766 2062	07	31	39	5.7
			2022				
16	16 43 30.38 +321.32	−21 47 4.8 − 711.0	1.662788	5.06	5.30	−3.39	11 7.1
17	48 51.70 322.20	21 58 55.8 671.9	664771 + 1983	05	29	39	8.5
18	54 13.90 323.05	22 10 7.7 632.4	666715 1944	04	28	40	9.9
19	16 59 36.95 323.86	20 40.1 592.3	668619 1904	04	27	40	11.4
20	17 5 0.81 324.63	30 32.4 551.7	670485 1866	03	27	40	12.8
			1827				
21	17 10 25.44 +325.35	−22 39 44.1 − 510.8	1.672312	5.03	5.26	−3.40	11 14.3
22	15 50.79 326.02	48 14.9 469.5	674100 + 1788	03	25	40	15.8
23	21 16.81 326.64	22 56 4.4 427.7	675849 1749	02	25	40	17.3
24	26 43.45 327.22	23 3 12.1 385.6	677558 1709	02	24	41	18.8
25	32 10.67 327.73	9 37.7 343.1	679227 1669	01	24	41	20.3
			1630				
26	17 37 38.40 +328.19	−23 15 20.8 − 300.4	1.680857	5.00	5.23	−3.41	11 21.9
27	43 6.59 328.58	20 21.2 257.4	682446 + 1589	5.00	23	41	23.4
28	48 35.17 328.92	24 38.6 214.2	683995 1549	4.99	22	41	24.9
29	54 4.09 329.21	28 12.8 170.8	685504 1509	99	22	42	26.5
30	17 59 33.30 329.42	31 3.6 127.2	686973 1469	99	22	42	28.0
31	18 5 2.72 +329.56	33 10.8 − 83.4	688401 + 1387	99	22	42	29.6
12 32	18 10 32.28	−23 34 34.2	1.689788	4.98	5.21	−3.42	11 31.1

月	日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
		h m s s	° ′ ″ ″		″	″		h m
J	1	17 44 20.64 +194.65	−23 55 57.2 −100.5	2.417179	1.93	3.64	+1.61	11 2.9
	2	47 35.29	57 37.7	−3191 413988	94	64	61	2.2
	3	50 50.22 +194.93	23 59 3.1 85.4	3217 410771	94	65	60	1.5
	4	54 5.40 195.18	24 0 13.4 70.3	3241 407530	94	65	60	0.8
	5	17 57 20.84 195.44	1 8.6 55.2	3264 404266	94	66	60	11 0.2
		195.67	40.0	3289				
	6	18 0 36.51	−24 1 48.6	2.400977	1.95	3.66	+1.60	10 59.5
	7	3 52.40 +195.89	2 13.3 −24.7	−3312 397665	95	67	60	58.8
	8	7 8.49 196.09	2 22.7 −9.4	3335 394330	95	67	59	58.1
	9	10 24.78 196.29	2 16.8 +5.9	3359 390971	96	68	59	57.5
	10	13 41.26 196.48	1 55.4 21.4	3381 387590	96	68	59	56.8
		196.63	36.7	3404				
	11	18 16 57.89	−24 1 18.7	2.384186	1.97	3.69	+1.59	10 56.1
	12	20 14.66 +196.77	24 0 26.5 + 52.2	−3427 380759	97	69	59	55.5
	13	23 31.57 196.91	23 59 18.7 67.8	3448 377311	98	70	58	54.8
	14	26 48.59 197.02	57 55.5 83.2	3470 373841	98	70	58	54.1
	15	30 5.70 197.11	56 16.7 98.8	3492 370349	98	71	58	53.5
		197.19	114.3	3512				
	16	18 33 22.89	−23 54 22.4	2.366837	1.98	3.72	+1.58	10 52.8
	17	36 40.15 +197.26	52 12.6 + 129.8	−3532 363305	98	72	57	52.2
	18	39 57.46 197.31	49 47.2 145.4	3551 359754	99	73	57	51.5
	19	43 14.80 197.34	47 6.3 160.9	3570 356184	99	74	57	50.9
	20	46 32.15 197.35	44 9.8 176.5	3587 352597	99	75	57	50.2
		197.35	192.0	3605				
	21	18 49 49.50	−23 40 57.8	2.348992	1.99	3.75	+1.56	10 49.6
	22	53 6.83 +197.33	37 30.4 + 207.4	−3621 345371	2.00	3.76	56	48.9
	23	56 24.15 197.32	33 47.4 223.0	3636 341735	00	76	56	48.3
	24	18 59 41.43 197.28	29 49.0 238.4	3650 338085	00	76	56	47.6
	25	19 2 58.65 197.22	25 35.2 253.8	3665 334420	00	77	56	46.9
		197.16	269.2	3679				
	26	19 6 15.81	−23 21 6.0	2.330741	2.01	3.77	+1.55	10 46.3
	27	9 32.90 +197.09	16 21.5 + 284.5	−3691 327050	01	78	55	45.6
	28	12 49.91 197.01	11 21.7 299.8	3704 323346	01	79	55	45.0
	29	16 6.82 196.91	6 6.6 315.1	3715 319631	01	79	55	44.3
	30	19 23.62 196.80	23 0 36.4 330.2	3728 315903	02	80	54	43.6
	31	22 40.30 196.68	22 54 51.1 345.3	3740 312163	02	81	54	43.0
		196.55	360.4	3752				
2	1	19 25 56.85	−22 48 50.7	2.308411	2.02	3.81	+1.54	10 42.3
	2	29 13.26 +196.41	42 35.3 + 375.4	−3763 304648	03	82	54	41.7
	3	32 29.51 196.25	36 5.0 390.3	3774 300874	03	82	53	41.0
	4	35 45.60 196.09	29 19.8 405.2	3785 297089	04	83	53	40.3
	5	39 1.52 195.92	22 19.9 419.9	3796 293293	04	84	53	39.6
		195.73	434.6	3807				
	6	19 42 17.25	−22 15 5.3	2.289486	2.04	3.84	+1.53	10 38.9
	7	45 32.78 +195.53	22 7 36.0 + 449.3	−3817 285669	05	85	52	38.3
	8	48 48.09 195.31	21 59 52.3 463.7	3828 281841	05	86	52	37.6
	9	52 3.17 195.08	51 54.2 478.1	3838 278003	05	87	52	36.9
	10	55 18.02 194.85	43 41.8 492.4	3849 274154	06	88	51	36.2
		194.60	506.6	3857				
	11	19 58 32.62	−21 35 15.2	2.270297	2.06	3.88	+1.51	10 35.5
	12	20 1 46.96 +194.34	26 34.5 + 520.7	−3868 266429	07	89	51	34.8
	13	5 1.03 194.07	17 39.8 534.7	3877 262552	07	89	51	34.1
	14	9 14.82 193.79	21 8 31.3 548.5	3885 258667	07	90	50	33.3
	15	11 28.31 193.49	20 59 9.1 562.2	3894 254773	08	90	50	32.6
		193.19	575.8	3901				
	16	20 14 41.50	−20 49 33.3	2.250872	2.08	3.91	+1.50	10 31.9
	17	17 54.38 +192.88	39 44.0 + 589.3	−3907 246965	08	92	50	31.2
	18	21 6.94 192.56	29 41.4 602.6	3914 243051	09	92	49	30.4
	19	24 19.18 192.24	19 25.6 615.8	3919 239132	09	93	49	29.7
	20	27 31.08 191.90	20 8 56.8 628.8	3924 235208	10	94	49	28.9
		191.56	641.7	3928				
	21	20 30 42.64	−19 58 15.1	2.231280	2.10	3.95	+1.48	10 28.2
	22	33 53.86 +191.22	47 20.6 + 654.5	−3932 227348	10	96	48	27.4
	23	37 4.72 190.86	36 13.5 667.1	3934 223414	11	96	48	26.7
	24	40 15.23 190.51	24 53.9 679.6	3937 219477	11	97	48	25.9
	25	43 25.39 190.16	13 22.0 691.9	3939 215538	11	97	47	25.1
		189.80	704.2	3942				
	26	20 46 35.19	−19 1 37.8	2.211596	2.12	3.98	+1.47	10 24.3
	27	49 44.63 +189.44	18 49 41.6 + 716.2	−3942 207654	12	98	47	23.6
	28	52 53.72 189.09	37 33.6 + 728.0	3945 203709	13	3.99	46	22.8
		+188.72	+ 739.7	−3946				
3	1	20 56 2.44	−18 25 13.9	2.199763	2.13	4.00	+1.46	10 22.0

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		h m s s	° ′ ″ ″		″	″		h m
3	1	20 56 2.44 +188.34	−18 25 13.9 + 751.3	2.199763	2.13	4.00	+1.46	10 22.0
	2	20 59 10.78 187.98	18 12 42.6 762.8	−3947 195816	13	00	46	21.2
	3	21 2 18.76 187.61	17 59 59.8 773.9	3948 191868	14	01	46	20.4
	4	5 26.37 187.23	47 5.9 785.0	3950 187918	14	02	45	19.5
	5	8 33.60 186.86	34 0.9 796.0	3952 183966	14	03	45	18.7
				3953				
	6	21 11 40.46	−17 20 44.9	2.180013	2.15	4.03	+1.45	10 17.9
	7	14 46.94 +186.48	17 7 18.2 + 806.7	−3954 176059	15	04	44	17.0
	8	17 53.04 186.10	16 53 41.0 817.2	3955 172104	16	05	44	16.2
	9	20 58.76 185.72	39 53.4 827.6	3957 168147	16	06	44	15.3
	10	24 4.09 185.33	25 55.6 837.8	3958 164189	16	06	44	14.5
		184.96	847.8	3959				
	11	21 27 9.05	−16 11 47.8	2.160230	2.17	4.07	+1.43	10 13.6
	12	30 13.62 +184.57	15 57 30.1 + 857.7	−3960 156270	17	08	43	12.8
	13	33 17.80 184.18	43 2.8 867.3	3962 152308	17	09	43	11.9
	14	36 21.59 183.79	28 26.0 876.8	3963 148345	18	10	43	11.0
	15	39 24.97 183.38	15 13 40.0 886.0	3963 144382	18	11	42	10.1
		182.99	895.0	3963				
	16	21 42 27.96	−14 58 45.0	2.140419	2.19	4.12	+1.42	10 9.2
	17	45 30.55 +182.59	43 41.1 + 903.9	−3963 136456	19	13	42	8.3
	18	48 32.76 182.21	28 28.5 912.6	3963 132493	19	13	41	7.4
	19	51 34.57 181.81	14 13 7.5 921.0	3960 128533	20	14	41	6.5
	20	54 35.99 181.42	13 57 38.2 929.3	3960 124573	20	14	41	5.6
		181.03	937.4	3957				
	21	21 57 37.02	−13 42 0.8	2.120616	2.20	4.15	+1.41	10 4.7
	22	22 0 37.67 +180.65	26 15.4 + 945.4	−3954 116662	21	15	40	3.7
	23	3 37.94 180.27	13 10 22.3 953.1	3951 112711	21	16	40	2.8
	24	6 37.84 179.90	12 54 21.7 960.6	3948 108763	22	17	40	1.8
	25	9 37.37 179.53	38 13.8 967.9	3944 104819	22	18	40	10 0.9
		179.17	975.1	3940				
	26	22 12 36.54	−12 21 58.7	2.100879	2.22	4.18	+1.39	9 59.9
	27	15 35.34 +178.80	12 5 36.6 + 982.1	−3936 096943	23	19	39	58.9
	28	18 33.79 178.45	11 49 7.8 988.8	3933 093010	23	20	39	58.0
	29	21 31.89 178.10	32 32.4 995.4	3929 089081	23	21	38	57.0
	30	24 29.66 177.77	11 15 50.6 1001.8	3925 085156	24	22	38	56.0
	31	27 27.08 177.42	10 59 2.6 1008.0	3922 081234	24	23	38	55.0
		177.09	1014.1	3918				
4	1	22 30 24.17	−10 42 8.5	2.077316	2.25	4.24	+1.38	9 54.0
	2	33 20.94 +176.77	25 8.6 + 1019.9	−3915 073401	26	25	37	53.1
	3	36 17.39 176.45	10 8 3.0 1025.6	3911 069490	26	26	37	52.1
	4	39 13.52 176.13	9 50 51.9 1031.1	3910 065580	27	26	37	51.0
	5	42 9.34 175.82	33 35.6 1036.3	3906 061674	27	27	37	50.0
		175.52	1041.4	3904				
	6	22 45 4.86	− 9 16 14.2	2.057770	2.27	4.28	+1.36	9 49.0
	7	48 0.08 +175.22	8 58 47.9 + 1046.3	−3902 053868	27	28	36	48.0
	8	50 55.00 174.92	41 17.0 1050.9	3899 049969	28	29	36	47.0
	9	53 49.63 174.63	23 41.6 1055.4	3898 046071	28	30	35	45.9
	10	56 43.97 174.34	8 6 1.9 1059.7	3897 042174	29	31	35	44.9
		174.06	1063.7	3895				
	11	22 59 38.03	− 7 48 18.2	2.038279	2.29	4.31	+1.35	9 43.8
	12	23 2 31.81 +173.78	30 30.6 + 1067.6	−3894 034385	30	32	35	42.8
	13	5 25.31 173.50	7 12 39.4 1071.2	3892 030493	31	33	34	41.7
	14	8 18.53 173.22	6 54 44.8 1074.6	3891 026602	32	34	34	40.7
	15	11 11.48 172.95	36 46.9 1077.9	3888 022714	32	35	34	39.6
		172.70	1080.9	3885				
	16	23 14 4.18	− 6 18 46.0	2.018829	2.33	4.36	+1.34	9 38.6
	17	16 56.62 +172.44	6 0 42.3 + 1083.7	−3883 014946	33	37	33	37.5
	18	19 48.81 172.19	5 42 36.0 1086.3	3880 011066	33	38	33	36.4
	19	22 40.76 171.95	24 27.2 1088.8	3877 007189	33	38	33	35.3
	20	25 32.47 171.71	5 6 16.2 1091.0	3873 2.003316	34	39	33	34.3
		171.48	1093.1	3870				
	21	23 28 23.95	− 4 48 3.1	1.999446	2.34	4.40	+1.32	9 33.2
	22	31 15.22 +171.27	29 48.1 + 1095.0	−3866 995580	34	41	32	32.1
	23	34 6.28 171.06	4 11 31.4 1096.7	3862 991718	35	42	32	31.0
	24	36 57.14 170.86	3 53 13.2 1098.2	3859 987859	35	43	32	29.9
	25	39 47.80 170.66	34 53.7 1099.5	3855 984004	36	44	31	28.8
		170.48	1100.7	3852				
	26	23 42 38.28	− 3 16 33.0	1.980152	2.37	4.45	+1.31	9 27.7
	27	45 28.59 +170.31	2 58 11.3 + 1101.7	−3850 976302	37	46	31	26.6
	28	48 18.73 170.14	39 48.8 1102.5	3848 972454	38	46	31	25.5
	29	51 8.71 169.98	21 25.7 1103.1	3845 968609	38	47	30	24.4
	30	53 58.54 169.83	2 3 2.2 1103.5	3842 964767	38	48	30	23.3
		+169.69	+1103.9	−3841				
5	1	23 56 48.23	− 1 44 38.3	1.960926	2.38	4.48	+1.30	9 22.1

月 日	世界時 0h 赤經		赤緯		地心距離		視半徑	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
5 1	23 56 48.23	+169.55	− 1 44 38.3	+1103.8	1.960926	−3840	2.38	4.48	+1.30	9 22.1
2	23 59 37.78	169.41	26 14.5	1103.8	957086	3839	39	49	30	21.0
3	0 2 27.19	169.29	1 7 50.7	1103.5	953247	3838	39	50	29	19.9
4	5 16.48	169.18	0 49 27.2	1103.0	949409	3837	40	51	29	18.8
5	8 5.66	169.07	31 4.2	1102.4	945572	3839	40	52	29	17.7
6	0 10 54.73	+168.97	− 0 12 41.8	+1101.6	1.941733		2.41	4.53	+1.29	9 16.5
7	13 43.70	168.87	+ 0 5 39.8	1100.6	937893	−3840	42	54	28	15.4
8	16 32.57	168.77	24 0.4	1099.3	934051	3842	43	55	28	14.3
9	19 21.34	168.68	0 42 19.7	1097.9	930207	3844	43	56	28	13.2
10	22 10.02	168.59	1 0 37.6	1096.3	926362	3845	44	57	28	12.0
11	0 24 58.61	+168.50	+ 1 18 53.9	+1094.5	1.922514	3848	2.44	4.58	+1.28	9 10.9
12	27 47.11	168.42	37 8.4	1092.4	918664	−3850	45	59	27	9.8
13	30 35.53	168.35	1 55 20.8	1090.3	914813	3851	45	60	27	8.6
14	33 23.88	168.29	2 13 31.1	1087.9	910959	3854	46	61	27	7.5
15	36 12.17	168.22	31 39.0	1085.3	907104	3855	46	62	27	6.4
16	0 39 0.39	+168.16	+ 2 49 44.3	+1082.7	1.903246	3858	2.46	4.63	+1.26	9 5.2
17	41 48.55	168.11	3 7 47.0	1079.7	899386	−3860	46	63	26	4.1
18	44 36.66	168.07	25 46.7	1076.6	895524	3862	47	64	26	2.9
19	47 24.73	168.03	3 43 43.3	1073.4	891661	3863	47	65	26	1.8
20	50 12.76	168.00	4 1 36.7	1070.1	887796	3865	47	66	25	9 0.7
21	0 53 0.76	+167.98	+ 4 19 26.8	+1066.5	1.883930	3866	2.48	4.67	+1.25	8 59.5
22	55 48.74	167.97	37 13.3	1062.7	880060	−3870	48	68	25	58.4
23	0 58 36.71	167.96	4 54 56.0	1058.9	876189	3871	49	69	25	57.2
24	1 1 24.67	167.96	5 12 34.9	1054.9	872315	3874	49	70	25	56.1
25	4 12.63	167.97	30 9.8	1050.7	868438	3877	50	71	24	54.9
26	1 7 0.60	+167.99	+ 5 47 40.5	+1046.3	1.864557	3881	2.50	4.72	+1.24	8 53.8
27	9 48.59	168.00	6 5 6.8	1041.8	860673	−3884	51	73	24	52.7
28	12 36.59	168.02	22 28.6	1037.2	856785	3888	51	74	24	51.5
29	15 24.61	168.05	39 45.8	1032.5	852892	3893	52	75	23	50.4
30	18 12.66	168.09	6 56 58.3	1027.5	848994	3898	52	76	23	49.2
31	21 0.75	168.13	7 14 5.8	1022.4	845090	3904	53	77	23	48.1
						3910				
6 1	1 23 48.88	+168.18	+ 7 31 8.2	+1017.2	1.841180		2.54	4.78	+1.23	8 47.0
2	26 37.06	168.23	7 48 5.4	1011.8	837263	−3917	54	79	22	45.8
3	29 25.29	168.27	8 4 57.2	1006.1	833338	3925	55	80	22	44.7
4	32 13.56	168.33	21 43.3	1000.4	829404	3934	56	81	22	43.5
5	35 1.89	168.38	38 23.7	994.6	825462	3942	56	82	22	42.4
6	1 37 50.27	+168.44	+ 8 54 58.3	+988.5	1.821511	3951	2.57	4.84	+1.21	8 41.3
7	40 38.71	168.49	9 11 26.8	982.2	817549	−3962	57	85	21	40.1
8	43 27.20	168.55	27 49.0	975.8	813578	3971	58	86	21	39.0
9	46 15.75	168.61	9 44 4.8	969.3	809596	3982	58	87	21	37.9
10	49 4.36	168.66	10 0 14.1	962.6	805603	3993	59	87	20	36.7
11	1 51 53.02	+168.71	+10 16 16.7	+955.8	1.801600	4003	2.59	4.88	+1.20	8 35.6
12	54 41.73	168.77	32 12.5	948.7	797586	−4014	60	89	20	34.5
13	1 57 30.50	168.83	10 48 1.2	941.6	793562	4024	60	90	20	33.3
14	2 0 19.33	168.89	11 3 42.8	934.2	789527	4035	61	91	19	32.2
15	3 8.22	168.96	19 17.0	926.8	785481	4046	61	93	19	31.1
16	2 5 57.18	+169.03	+11 34 43.8	+919.2	1.781424	4057	2.62	4.94	+1.19	8 30.0
17	8 46.21	169.10	11 50 3.0	911.5	777356	−4068	63	95	19	28.9
18	11 35.31	169.16	12 5 14.5	903.7	773277	4079	63	96	18	27.7
19	14 24.47	169.24	20 18.2	895.8	769187	4090	64	97	18	26.6
20	17 13.71	169.32	35 14.0	887.8	765085	4102	65	98	18	25.5
21	2 20 3.03	+169.39	+12 50 1.8	+879.6	1.760972	4113	2.65	4.99	+1.18	8 24.4
22	22 52.42	169.47	13 4 41.4	871.2	756846	−4126	66	5.00	17	23.2
23	25 41.89	169.54	19 12.6	862.8	752708	4138	66	02	17	22.1
24	28 31.43	169.63	33 35.4	854.3	748558	4150	67	03	17	21.0
25	31 21.06	169.72	13 47 49.7	845.7	744394	4164	68	05	17	19.9
26	2 34 10.78	+169.81	+14 1 55.4	+837.0	1.740216	4178	2.69	5.06	+1.16	8 18.8
27	37 0.59	169.89	15 52.4	828.2	736024	−4192	70	08	16	17.7
28	39 50.48	169.97	29 40.6	819.3	731816	4208	71	09	16	16.6
29	42 40.45	170.05	43 19.9	810.2	727593	4223	72	10	16	15.5
30	45 30.50	+170.13	14 56 50.1	+801.0	723353	4240	72	11	15	14.4
						−4257				
7 1	2 48 20.63		+15 10 11.1		1.719096		2.73	5.12	+1.15	8 13.2

月 日	世界時 0h 赤經		赤緯		地心距離		視半徑	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
7 1	2 48 20.63	+170.21	+15 10 11.1	+ 791.8	1.719096	−4275	2.73	5.12	+1.15	8 13.2
2	51 10.84	170.28	23 22.9	782.4	714821	4293	73	13	15	12.1
3	54 1.12	170.35	36 25.3	772.9	710528	4313	74	14	14	11.0
4	56 51.47	170.40	15 49 18.2	763.4	706215	4332	74	15	14	9.9
5	2 59 41.87	170.45	16 2 1.6	753.6	701883	4352	75	17	14	8.8
6	3 2 32.32	+170.51	+16 14 35.2	+ 743.8	1.697531	−4372	2.76	5.18	+1.14	8 7.7
7	5 22.83	170.56	26 59.0	733.9	693159	4393	77	19	13	6.6
8	8 13.39	170.59	39 12.9	723.8	688766	4414	78	21	13	5.5
9	11 3.98	170.62	16 51 16.7	713.7	684352	4434	78	22	13	4.4
10	13 54.60	170.65	17 3 10.4	703.5	679918	4455	79	24	12	3.3
11	3 16 45.25	+170.66	+17 14 53.9	+ 693.2	1.675463	−4476	2.79	5.25	+1.12	8 2.2
12	19 35.91	170.67	26 27.1	682.8	670987	4497	80	26	12	1.1
13	22 26.58	170.67	37 49.9	672.4	666490	4518	80	28	11	8 0.1
14	25 17.25	170.67	17 49 2.3	661.8	661972	4539	81	29	11	7 59.0
15	28 7.92	170.67	18 0 4.1	651.2	657433	4560	82	30	11	57.9
16	3 30 58.59	+170.66	+18 10 55.3	+ 640.6	1.652873	−4581	2.83	5.32	+1.11	7 56.8
17	33 49.25	170.65	21 35.9	629.8	648292	4603	84	33	10	55.7
18	36 39.90	170.63	32 5.7	619.1	643689	4624	85	35	10	54.6
19	39 30.53	170.60	42 24.8	608.3	639065	4647	86	36	10	53.5
20	42 21.13	170.58	18 52 33.1	597.4	634418	4668	87	38	09	52.4
21	3 45 11.71	+170.54	+19 2 30.5	+ 586.6	1.629750	−4691	2.87	5.39	+1.09	7 51.3
22	48 2.25	170.50	12 17.1	575.6	625059	4714	88	41	09	50.2
23	50 52.75	170.45	21 52.7	564.6	620345	4736	89	43	08	49.1
24	53 43.20	170.40	31 17.3	553.7	615609	4761	89	44	08	48.0
25	56 33.60	170.34	40 31.0	542.6	610848	4785	90	46	07	46.9
26	3 59 23.94	+170.27	+19 49 33.6	+ 531.6	1.606063	−4810	2.91	5.48	+1.07	7 45.8
27	4 2 14.21	170.20	19 58 25.2	520.4	601253	4835	92	50	07	44.7
28	5 4.41	170.12	20 7 5.6	509.3	596418	4861	93	51	06	43.5
29	7 54.53	170.02	15 34.9	498.2	591557	4889	94	53	06	42.4
30	10 44.55	169.91	23 53.1	487.1	586668	4915	95	55	06	41.3
31	13 34.46	169.79	32 0.2	475.8	581753	4944	96	57	05	40.2
8 1	4 16 24.25	+169.67	+20 39 56.0	+ 464.6	1.576809	−4973	2.97	5.58	+1.05	7 39.1
2	19 13.92	169.53	47 40.6	453.4	571836	5001	98	60	04	38.0
3	22 3.45	169.37	20 55 14.0	442.1	566835	5030	2.99	62	04	36.9
4	24 52.82	169.19	21 2 36.1	430.9	561805	5059	3.00	64	03	35.8
5	27 42.01	169.00	9 47.0	419.5	556746	5089	01	65	03	34.6
6	4 30 31.01	+168.80	+21 16 46.5	+ 408.3	1.551657	−5119	3.02	5.67	+1.03	7 33.5
7	33 19.81	168.58	23 34.8	397.0	546538	5148	03	69	02	32.4
8	36 8.39	168.36	30 11.8	385.7	541390	5178	04	71	02	31.3
9	38 56.75	168.12	36 37.5	374.4	536212	5206	05	73	01	30.1
10	41 44.87	167.86	42 51.9	363.2	531006	5236	06	75	01	29.0
11	4 44 32.73	+167.60	+21 48 55.1	+ 351.9	1.525770	−5265	3.07	5.77	+1.00	7 27.8
12	47 20.33	167.31	21 54 47.0	340.8	520505	5294	08	79	1.00	26.7
13	50 7.64	167.02	22 0 27.8	329.6	515211	5323	09	81	0.99	25.5
14	52 54.66	166.73	5 57.4	318.5	509888	5352	10	83	99	24.4
15	55 41.39	166.41	11 15.9	307.4	504536	5381	11	85	98	23.2
16	4 58 27.80	+166.09	+22 16 23.3	+ 296.4	1.499155	−5411	3.12	5.87	+0.98	7 22.0
17	5 1 13.89	165.75	21 19.7	285.4	493744	5440	13	89	97	20.8
18	3 59.64	165.40	26 5.1	274.5	488304	5469	14	92	97	19.7
19	6 45.04	165.04	30 39.6	263.7	482835	5499	15	94	96	18.5
20	9 30.08	164.67	35 3.3	252.9	477336	5528	16	96	96	17.3
21	5 12 14.75	+164.30	+22 39 16.2	+ 242.1	1.471808	−5559	3.17	5.98	+0.95	7 16.1
22	14 59.05	163.91	43 18.3	231.5	466249	5588	19	6.00	95	14.9
23	17 42.96	163.51	47 9.8	221.0	460661	5619	20	02	94	13.7
24	20 26.47	163.08	50 50.8	210.4	455042	5650	21	04	93	12.5
25	23 9.55	162.65	54 21.2	200.0	449392	5682	22	07	93	11.2
26	5 25 52.20	+162.21	+22 57 41.2	+ 189.7	1.443710	−5714	3.24	6.09	+0.92	7 10.0
27	28 34.41	161.76	23 0 50.9	179.4	437996	5746	25	12	92	8.7
28	31 16.17	161.27	3 50.3	169.3	432250	5780	26	14	91	7.5
29	33 57.44	160.78	6 39.6	159.2	426470	5813	27	17	90	6.3
30	36 38.22	160.26	9 18.8	149.2	420657	5846	29	19	90	5.0
31	39 18.48	+159.73	11 48.0	+ 139.3	414811	−5880	30	22	89	3.7
9 1	5 41 58.21		+23 14 7.3		1.408931		3.32	6.25	+0.88	7 2.4

月 日	世界時 0h 赤經	赤緯	地心距離	視半徑	地平視差	等級	本初子午線正中時
	h m s s	° ′ ″ ″		″	″		h m
9 1	5 41 58.21 +159.18	+23 14 7.3 + 129.5	1.408931 − 5913	3.32	6.25	+0.88	7 2.4
2	44 37.39 158.62	16 16.8 119.8	403018 5947	33	27	88	7 1.1
3	47 16.01 158.02	18 16.6 110.2	397071 5981	35	30	87	6 59.8
4	49 54.03 157.40	20 6.8 100.7	391090 6014	37	33	86	58.5
5	52 31.43 156.78	21 47.5 91.4	385076 6046	38	36	86	57.2
6	5 55 8.21	+23 23 18.9 82.1	1.379030 − 6079	3.39	6.38	+0.85	6 55.9
7	5 57 44.34 +156.13	24 41.0 + 73.0	372951 6111	41	41	84	54.5
8	6 0 19.82 155.48	25 54.0 64.0	366840 6143	42	44	84	53.2
9	2 54.61 154.79	26 58.0 55.2	360697 6175	44	47	83	51.8
10	5 28.71 154.10	27 53.2 46.6	354522 6205	45	49	82	50.4
	153.39						
11	6 8 2.10	+23 28 39.8 38.0	1.348317 − 6237	3.47	6.52	+0.81	6 49.0
12	10 34.77 +152.67	29 17.8 + 29.6	342080 6268	49	55	81	47.6
13	13 6.70 151.93	29 47.4 21.3	335812 6297	51	58	80	46.2
14	15 37.87 151.17	30 8.7 13.3	329515 6328	53	62	79	44.8
15	18 8.28 150.41	30 22.0 + 5.4	323187 6358	54	65	78	43.4
	149.62						
16	6 20 37.90	+23 30 27.4 2.4	1.316829 − 6387	3.56	6.69	+0.77	6 41.9
17	23 6.73 +148.83	30 25.0 − 9.9	310442 6417	57	72	76	40.5
18	25 34.74 148.01	30 15.1 17.4	304025 6446	59	76	76	39.0
19	28 1.93 147.19	29 57.7 24.6	297579 6475	60	79	75	37.5
20	30 28.29 146.36	29 33.1 31.7	291104 6504	62	82	74	36.0
	145.50						
21	6 32 53.79	+23 29 1.4 38.6	1.284600 − 6534	3.64	6.85	+0.73	6 34.5
22	35 18.43 +144.64	28 22.8 − 45.2	278066 6563	66	89	72	32.9
23	37 42.19 143.76	27 37.6 51.8	271503 6593	68	92	71	31.4
24	40 5.04 142.85	26 45.8 58.1	264910 6623	70	96	70	29.8
25	42 26.98 141.94	25 47.7 64.2	258287 6652	72	6.99	69	28.2
	141.00						
26	6 44 47.98	+23 24 43.5 70.2	1.251635 − 6682	3.73	7.03	+0.68	6 26.6
27	47 8.02 +140.04	23 33.3 − 75.9	244953 6712	75	06	67	25.0
28	49 27.08 139.06	22 17.4 81.5	238241 6741	77	10	66	23.4
29	51 45.13 138.05	20 55.9 86.8	231500 6771	79	14	65	21.8
30	54 2.16 137.03	19 29.1 91.9	224729 6798	81	18	64	20.1
	135.96						
10 1	6 56 18.12 +134.89	+23 17 57.2	1.217931 − 6826	3.84	7.23	+0.63	6 18.4
2	6 58 33.01 133.80	16 20.3 − 96.9	211105 6853	86	27	62	16.7
3	7 0 46.81 132.66	14 38.7 101.6	204252 6880	88	31	61	15.0
4	2 59.47 131.52	12 52.7 106.0	197372 6906	90	35	60	13.3
5	5 10.99 130.35	11 2.5 110.2	190466 6931	93	40	59	11.5
							114.2
6	7 7 21.34 +129.17	+23 9 8.3	1.183535 − 6955	3.95	7.44	+0.58	6 9.7
7	9 30.51 127.96	7 10.3 − 118.0	176580 6978	3.97	48	57	8.0
8	11 38.47 126.72	5 8.8 121.5	169602 7001	4.00	52	55	6.1
9	13 45.19 125.47	3 4.0 124.8	162601 7022	02	57	54	4.3
10	15 50.66 124.19	23 0 56.2 127.8	155579 7043	05	61	53	2.4
							130.7
11	7 17 54.85 +122.90	+22 58 45.5	1.148536 − 7062	4.07	7.66	+0.52	6 0.6
12	19 57.75 121.60	56 32.3 − 133.2	141474 7082	10	71	51	5 58.7
13	21 59.35 120.25	54 16.8 135.5	134392 7099	12	76	49	56.8
14	23 59.60 118.90	51 59.3 137.5	127293 7117	15	81	48	54.8
15	25 58.50 117.54	49 40.0 139.3	120176 7133	18	86	47	52.9
							140.8
16	7 27 56.04 +116.13	+22 47 19.2	1.113043 − 7149	4.20	7.91	+0.45	5 50.9
17	29 52.17 114.72	44 57.1 − 142.1	105894 7163	23	7.96	44	48.9
18	31 46.89 113.29	42 34.1 143.0	098731 7177	26	8.01	43	46.8
19	33 40.18 111.83	40 10.4 143.7	091554 7191	29	06	41	44.8
20	35 32.01 110.34	37 46.2 144.2	084363 7204	32	11	40	42.7
							144.4
21	7 37 22.35 +108.84	+22 35 21.8	1.077159 − 7216	4.35	8.17	+0.39	5 40.6
22	39 11.19 107.30	32 57.5 − 144.3	069943 7228	38	22	37	38.4
23	40 58.49 105.73	30 33.6 143.9	062715 7239	41	28	36	36.3
24	42 44.22 104.13	28 10.3 143.3	055476 7249	44	33	34	34.1
25	44 28.35 102.50	25 48.0 142.3	048227 7259	47	39	33	31.9
							141.1
26	7 46 10.85 +100.84	+22 23 26.9	1.040968 − 7267	4.50	8.45	+0.31	5 29.7
27	47 51.69 99.12	21 7.3 − 139.6	033701 7274	53	51	30	27.4
28	49 30.81 97.38	18 49.6 137.7	026427 7280	56	57	28	25.1
29	51 8.19 95.61	16 34.1 135.5	019147 7284	60	64	27	22.8
30	52 43.80 93.79	14 21.1 133.0	011863 7287	63	70	25	20.4
31	54 17.59 + 91.93	12 10.8 − 130.3	1.004576 − 7288	66	76	24	18.0
							127.1
11 1	7 55 49.52	+22 10 3.7	0.997288	4.70	8.82	+0.22	5 15.6

月 日	世界時 0h 赤經	赤緯	地心距離	視半徑	地平視差	等級	本初子午線正中時
	h m s s	° ′ ″ ″		″	″		h m
11 1	7 55 49.52 + 90.04	+22 10 3.7 − 123.7	0.997288 − 7288	4.70	8.82	+0.22	5 15.6
2	57 19.56 88.12	8 0.0 120.0	990000 7286	73	89	20	13.2
3	7 58 47.68 86.15	6 0.0 115.9	982714 7282	77	8.95	19	10.7
4	8 0 13.83 84.15	4 4.1 111.5	975432 7275	80	9.02	17	8.2
5	1 37.98 82.11	2 12.6 106.7	968157 7267	84	09	15	5.7
6	8 3 0.09	+22 0 25.9 − 101.8	0.960890 − 7257	4.87	9.16	+0.13	5 3.1
7	4 20.12 + 80.03	21 58 44.1 96.4	953633 7245	91	23	12	5 0.5
8	5 38.04 77.92	57 7.7 90.8	946388 7230	95	30	10	4 57.8
9	6 53.81 75.77	55 36.9 84.8	939158 7214	4.98	37	08	55.1
10	8 7.39 73.58	54 12.1 78.5	931944 7196	5.02	45	06	52.4
	71.35						
11	8 9 18.74	+21 52 53.6 − 71.9	0.924748 − 7175	5.06	9.52	+0.04	4 49.7
12	10 27.82 + 69.08	51 41.7 64.9	917573 7153	10	59	02	46.9
13	11 34.61 66.79	50 36.8 57.8	910420 7128	14	67	+0.01	44.0
14	12 39.06 64.45	49 39.0 50.3	903292 7101	18	74	−0.01	41.2
15	13 41.13 62.07	48 48.7 42.5	896191 7073	22	82	03	38.3
	59.65						
16	8 14 40.78	+21 48 6.2 − 34.3	0.889118 − 7041	5.26	9.90	−0.05	4 35.3
17	15 37.98 + 57.20	47 31.9 26.0	882077 7009	30	9.98	07	32.3
18	16 32.68 54.70	47 5.9 17.3	875068 6973	35	10.06	09	29.3
19	17 24.83 52.15	46 48.6 − 8.3	868095 6936	39	14	11	26.2
20	18 14.39 49.56	46 40.3 + 0.9	861159 6897	43	22	13	23.1
	46.91						
21	8 19 1.30	+21 46 41.2 10.5	0.854262 − 6854	5.48	10.30	−0.15	4 19.9
22	19 45.51 + 44.21	46 51.7 + 20.4	847408 6811	52	39	17	16.7
23	20 26.98 41.47	47 12.1 30.4	840597 6764	57	47	20	13.5
24	21 5.64 38.66	47 42.5 40.9	833833 6714	61	55	22	10.2
25	21 41.43 35.79	48 23.4 51.4	827119 6661	66	64	24	6.8
	32.88						
26	8 22 14.31	+21 49 14.8 62.3	0.820458 − 6604	5.70	10.72	−0.26	4 3.4
27	22 44.22 + 29.91	50 17.1 + 73.4	813854 6544	75	81	28	4 0.0
28	23 11.10 26.88	51 30.5 84.7	807310 6481	80	90	30	3 56.5
29	23 34.90 23.80	52 55.2 96.2	800829 6414	84	10.99	32	52.9
30	23 55.58 20.68	54 31.4 107.9	794415 6343	89	11.08	35	49.4
	17.50						
12 1	8 24 13.08	+21 56 19.3 + 119.7	0.788072 − 6268	5.94	11.17	−0.37	3 45.7
2	24 27.35 + 14.27	21 58 19.0 131.6	781804 6191	5.99	26	39	42.0
3	24 38.34 10.99	22 0 30.6 143.6	775613 6107	6.03	35	41	38.2
4	24 46.02 7.68	2 54.2 155.7	769506 6021	08	44	43	34.4
5	24 50.35 4.33	5 29.9 167.9	763485 5930	13	53	46	30.6
	+ 0.94						
6	8 24 51.29	+22 8 17.8	0.757555 − 5835	6.18	11.62	−0.48	3 26.6
7	24 48.80 − 2.49	11 17.7 + 179.9	751720 5736	22	71	50	22.6
8	24 42.85 5.95	14 29.8 192.1	745984 5633	27	80	53	18.6
9	24 33.42 9.43	17 53.9 204.1	740351 5525	32	89	55	14.5
10	24 20.49 12.93	21 30.0 216.1	734826 5414	37	11.98	57	10.4
	16.46	227.9					
11	8 24 4.03	+22 25 17.9	0.729412 − 5298	6.42	12.07	−0.59	3 6.2
12	23 44.03 − 20.00	29 17.4 + 239.5	724114 5178	46	15	62	3 1.9
13	23 20.49 23.54	33 28.5 251.1	718936 5054	51	24	64	2 57.5
14	22 53.40 27.09	37 50.8 262.3	713882 4925	56	33	66	53.2
15	22 22.75 30.65	42 23.9 273.1	708957 4794	60	41	68	48.7
	34.20	283.7					
16	8 21 48.55	+22 47 7.6	0.704163 − 4658	6.65	12.50	−0.71	2 44.2
17	21 10.78 − 37.77	52 1.6 + 294.0	699505 4518	69	58	73	39.7
18	20 29.49 41.29	22 57 5.4 303.8	694987 4373	73	66	75	35.0
19	19 44.66 44.83	23 2 18.7 313.3	690614 4225	78	74	77	30.3
20	18 56.32 48.34	7 40.9 322.2	686389 4073	82	82	80	25.6
	51.84	330.7					
21	8 18 4.48	+23 13 11.6	0.682316 − 3916	6.86	12.90	−0.82	2 20.8
22	17 9.17 − 55.31	18 50.3 + 338.7	678400 3755	90	12.98	84	16.0
23	16 10.44 58.73	24 36.3 346.0	674645 3589	94	13.05	86	11.1
24	15 8.34 62.10	30 29.0 352.7	671056 3419	6.97	12	88	6.1
25	14 2.92 65.42	36 27.7 358.7	667637 3244	7.01	19	90	2 1.1
	68.69	364.0					
26	8 12 54.23	+23 42 31.7	0.664393 − 3065	7.04	13.25	−0.92	1 56.0
27	11 42.36 − 71.87	48 40.2 + 368.5	661328 2881	07	31	94	50.9
28	10 27.40 74.96	23 54 52.5 372.3	658447 2694	10	37	96	45.7
29	9 9.46 77.94	24 1 7.7 375.2	655753 2502	13	42	0.98	40.5
30	7 48.64 80.82	7 25.0 377.3	653251 2307	16	47	1.00	35.2
31	6 25.07 83.57	13 43.5 378.5	650944 2107	18	52	02	29.9
	− 86.19	+ 378.7					
12 32	8 4 58.88	+24 20 2.2	0.648837	7.21	13.57	−1.03	1 24.5

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		h m s	s	° ′ ″	″			″	″		h m
1	1	11 52 6.57	+ 7.93	+ 2 14 48.4	− 33.4	5.121763	− 15568	17.95	1.72	−1.71	5 10.2
	2	52 14.50	7.26	14 15.0	28.8	106195	15503	18.00	72	72	6.4
	3	52 21.76	6.56	13 46.2	24.4	090692	15434	06	73	73	5 2.6
	4	52 28.32	5.87	13 21.8	19.8	075258	15361	11	73	73	4 58.7
	5	52 34.19	5.17	13 2.0	15.2	059897	15282	17	74	74	54.9
	6	11 52 39.36	+ 4.48	+ 2 12 46.8	− 10.7	5.044615	− 15199	18.22	1.74	−1.74	4 51.1
	7	52 43.84	3.77	12 36.1	6.1	029416	15110	28	75	75	47.2
	8	52 47.61	3.07	12 30.0	− 1.5	5.014306	15017	34	75	76	43.3
	9	52 50.68	2.36	12 28.5	+ 3.0	4.999289	14919	39	76	76	39.4
	10	52 53.04	1.65	12 31.5	7.6	984370	14816	45	76	77	35.5
	11	11 52 54.69	+ 0.94	+ 2 12 39.1	+ 12.2	4.969554	− 14708	18.50	1.77	−1.78	4 31.6
	12	52 55.63	0.23	12 51.3	16.9	954846	14593	55	77	78	27.7
	13	52 55.86	0.48	13 8.2	21.4	940253	14474	60	78	79	23.8
	14	52 55.38	1.20	13 29.6	26.0	925779	14349	66	78	80	19.8
	15	52 54.18	1.91	13 55.6	30.6	911430	14218	71	79	80	15.9
	16	11 52 52.27	− 2.62	+ 2 14 26.2	+ 35.2	4.897212	− 14083	18.76	1.79	−1.81	4 11.9
	17	52 49.65	3.33	15 1.4	39.8	883129	13942	82	80	82	7.9
	18	52 46.32	4.05	15 41.2	44.4	869187	13797	87	80	82	4.0
	19	52 42.27	4.75	16 25.6	48.9	855390	13646	93	81	83	4 0.0
	20	52 37.52	5.44	17 14.5	53.3	841744	13491	18.98	81	83	3 55.9
	21	11 52 32.08	− 6.15	+ 2 18 7.8	+ 57.8	4.828253	− 13331	19.04	1.82	−1.84	3 51.9
	22	52 25.93	6.84	19 5.6	62.2	814922	13166	09	82	85	47.9
	23	52 19.09	7.53	20 7.8	66.6	801756	12997	14	83	85	43.8
	24	52 11.56	8.22	21 14.4	70.9	788759	12823	19	83	86	39.8
	25	52 3.34	8.91	22 25.3	75.3	775936	12645	25	84	86	35.7
	26	11 51 54.43	− 9.59	+ 2 23 40.6	+ 79.6	4.763291	− 12462	19.30	1.84	−1.87	3 31.6
	27	51 44.84	10.26	25 0.2	83.8	750829	12275	35	85	87	27.5
	28	51 34.58	10.93	26 24.0	88.1	738554	12083	40	85	88	23.4
	29	51 23.65	11.60	27 52.1	92.2	726471	11887	45	86	88	19.3
	30	51 12.05	12.26	29 24.3	96.3	714584	11688	49	86	89	15.2
	31	50 59.79	12.92	31 0.6	100.4	702896	11483	54	87	90	11.1
2	1	11 50 46.87	− 13.56	+ 2 32 41.0	+ 104.5	4.691413	− 11275	19.59	1.87	−1.90	3 6.9
	2	50 33.31	14.21	34 25.5	108.4	680138	11061	64	88	91	3 2.7
	3	50 19.10	14.84	36 13.9	112.3	669077	10842	68	88	91	2 58.6
	4	50 4.26	15.47	38 6.2	116.1	658235	10620	73	89	92	54.4
	5	49 48.79	16.09	40 2.3	120.0	647615	10393	77	90	92	50.2
	6	11 49 32.70	− 16.70	+ 2 42 2.3	+ 123.7	4.637222	− 10161	19.82	1.90	−1.93	2 46.0
	7	49 16.00	17.29	44 6.0	127.3	627061	9925	86	91	93	41.8
	8	48 58.71	17.89	46 13.3	130.9	617136	9685	90	91	94	37.6
	9	48 40.82	18.48	48 24.2	134.4	607451	9441	94	91	94	33.3
	10	48 22.34	19.04	50 38.6	137.9	598010	9192	19.99	92	94	29.1
	11	11 48 3.30	− 19.59	+ 2 52 56.5	+ 141.2	4.588818	− 8938	20.03	1.92	−1.95	2 24.9
	12	47 43.71	20.14	55 17.7	144.4	579880	8680	07	92	95	20.6
	13	47 23.57	20.67	2 57 42.1	147.6	571200	8420	11	92	96	16.3
	14	47 2.90	21.19	3 0 9.7	150.6	562780	8155	15	92	96	12.1
	15	46 41.71	21.69	2 40.3	153.5	554625	7885	18	93	96	7.8
	16	11 46 20.02	− 22.16	+ 3 5 13.8	+ 156.3	4.546740	− 7614	20.22	1.93	−1.97	2 3.5
	17	45 57.86	22.64	7 50.1	159.0	539126	7340	25	93	97	1 59.2
	18	45 35.22	23.10	10 29.1	161.7	531786	7062	29	94	98	54.9
	19	45 12.12	23.54	13 10.8	164.1	524724	6781	32	94	98	50.6
	20	44 48.58	23.96	15 54.9	166.5	517943	6499	35	95	98	46.3
	21	11 44 24.62	− 24.36	+ 3 18 41.4	+ 168.8	4.511444	− 6214	20.38	1.95	−1.98	1 41.9
	22	44 0.26	24.75	21 30.2	170.8	505230	5926	41	96	99	37.6
	23	43 35.51	25.12	24 21.0	172.9	499304	5637	43	96	99	33.2
	24	43 10.39	25.48	27 13.9	174.8	493667	5345	46	96	1.99	28.9
	25	42 44.91	25.82	30 8.7	176.6	488322	5052	48	96	2.00	24.5
	26	11 42 19.09	− 26.14	+ 3 33 5.3	+ 178.2	4.483270	− 4756	20.51	1.97	−2.00	1 20.2
	27	41 52.95	26.44	36 3.5	179.7	478514	4458	53	97	00	15.8
	28	41 26.51	26.73	39 3.2	181.2	474056	4159	55	97	00	11.4
3	1	11 40 59.78		+ 3 42 4.4		4.469897		20.57	1.97	−2.00	1 7.1

月	日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
		h m s	s	° ′ ″	″			″	″		h m
3	1	11 40 59.78	− 27.00	+ 3 42 4.4	+ 182.5	4.469897	− 3858	20.57	1.97	−2.00	1 7.1
	2	40 32.78	27.25	45 6.9	183.6	466039	3555	58	97	01	1 2.7
	3	40 5.53	27.48	48 10.5	184.7	462484	3250	60	97	01	0 58.3
	4	39 38.05	27.69	51 15.2	185.6	459234	2945	61	97	01	53.9
	5	39 10.36	27.89	54 20.8	186.4	456289	2638	62	97	01	49.5
	6	11 38 42.47	− 28.06	+ 3 57 27.2	+ 187.0	4.453651	− 2329	20.64	1.97	−2.01	0 45.1
	7	38 14.41	28.21	4 0 34.2	187.6	451322	2020	65	98	01	40.7
	8	37 46.20	28.35	3 41.8	188.0	449302	1708	66	98	01	36.3
	9	37 17.85	28.46	6 49.8	188.2	447594	1397	67	98	01	31.9
	10	36 49.39	28.55	9 58.0	188.2	446197	1083	67	98	02	27.5
	11	11 36 20.84	− 28.63	+ 4 13 6.2	+ 188.3	4.445114	− 770	20.68	1.98	−2.02	0 23.1
	12	35 52.21	28.68	16 14.5	188.1	444344	457	68	98	02	18.7
	13	35 23.53	28.70	19 22.6	187.8	443887	142	68	98	02	14.3
	14	34 54.83	28.71	22 30.4	187.3	443745	+ 170	68	98	02	9.9
	15	34 26.12	28.69	25 37.7	186.7	443915	485	68	98	02	5.5
	16	11 33 57.43	− 28.66	+ 4 28 44.4	+ 186.0	4.444400	+ 798	20.63	1.98	−2.02	0 1.1 23 56.7
	17	33 28.77	28.60	31 50.4	185.1	445198	1110	.68	98	02	52.3
	18	33 0.17	28.52	34 55.5	184.1	446308	1420	67	98	02	47.9
	19	32 31.65	28.41	37 59.6	183.0	447728	1730	67	98	01	43.5
	20	32 3.24	28.29	41 2.6	181.7	449458	2038	66	98	01	39.1
	21	11 31 34.95	− 28.15	+ 4 44 4.3	+ 180.3	4.451496	+ 2345	20.65	1.98	−2.01	23 34.7
	22	31 6.80	27.99	47 4.6	178.8	453841	2649	64	98	01	30.3
	23	30 38.81	27.81	50 3.4	177.2	456490	2953	62	97	01	25.9
	24	30 11.00	27.61	53 0.6	175.4	459443	3254	61	97	01	21.5
	25	29 43.39	27.39	55 56.0	173.4	462697	3555	60	97	01	17.1
	26	11 29 16.00	− 27.16	+ 4 58 49.4	+ 171.5	4.466252	+ 3851	20.58	1.97	−2.00	23 12.7
	27	28 48.84	26.91	5 1 40.9	169.4	470103	4147	57	97	00	8.3
	28	28 21.93	26.63	4 30.3	167.2	474250	4440	55	97	00	23 4.0
	29	27 55.30	26.34	7 17.5	164.9	478690	4732	53	97	00	22 59.6
	30	27 28.96	26.03	10 2.4	162.5	483422	5020	51	97	2.00	55.2
	31	27 2.93	25.72	12 44.9	160.0	488442	5307	48	96	1.99	50.9
4	1	11 26 37.21	− 25.38	+ 5 15 24.9	+ 157.4	4.493749	+ 5592	20.46	1.96	−1.99	22 46.5
	2	26 11.83	25.02	18 2.3	154.6	499341	5874	43	96	99	42.2
	3	25 46.81	24.65	20 36.9	151.8	505215	6153	41	96	99	37.8
	4	25 22.16	24.27	23 8.7	148.9	511368	6429	38	95	98	33.5
	5	24 57.89	23.87	25 37.6	145.9	517797	6703	35	95	98	29.2
	6	11 24 34.02	− 23.44	+ 5 28 3.5	+ 142.9	4.524500	+ 6975	20.32	1.95	−1.98	22 24.9
	7	24 10.58	23.01	30 26.4	139.7	531475	7243	29	94	97	20.6
	8	23 47.57	22.56	32 46.1	136.4	538718	7508	25	94	97	16.2
	9	23 25.01	22.09	35 2.5	133.1	546226	7771	22	93	97	11.9
	10	23 2.92	21.62	37 15.6	129.7	553997	8031	18	93	96	7.7
	11	11 22 41.30	− 21.12	+ 5 39 25.3	+ 126.2	4.562028	+ 8286	20.15	1.92	−1.96	22 3.4
	12	22 20.18	20.61	41 31.5	122.6	570314	8537	11	92	95	21 59.1
	13	21 59.57	20.09	43 34.1	119.0	578851	8785	07	92	95	54.8
	14	21 39.48	19.57	45 33.1	115.3	587636	9029	20.03	92	95	50.6
	15	21 19.91	19.02	47 28.4	111.5	596665	9268	19.99	92	94	46.3
	16	11 21 0.89	− 18.47	+ 5 49 19.9	+ 107.6	4.605933	+ 9503	19.95	1.91	−1.94	21 42.1
	17	20 42.42	17.90	51 7.5	103.8	615436	9733	91	91	93	37.9
	18	20 24.52	17.32	52 51.3	99.8	625169	9960	87	91	93	33.6
	19	20 7.20	16.74	54 31.1	95.8	635129	10180	83	90	92	29.4
	20	19 50.46	16.15	56 6.9	91.8	645309	10399	78	90	92	25.2
	21	11 19 34.31	− 15.55	+ 5 57 38.7	+ 87.7	4.655708	+ 10611	19.74	1.89	−1.91	21 21.0
	22	19 18.76	14.94	5 59 6.4	83.6	666319	10820	70	88	91	16.9
	23	19 3.82	14.33	6 0 30.0	79.5	677139	11023	65	88	90	12.7
	24	18 49.49	13.71	1 49.5	75.3	688162	11224	61	87	90	8.5
	25	18 35.78	13.09	3 4.8	71.2	699386	11419	56	87	89	4.4
	26	11 18 22.69	− 12.46	+ 6 4 16.0	+ 66.9	4.710805	+ 11611	19.51	1.87	−1.89	21 0.2
	27	18 10.23	11.82	5 22.9	62.7	722416	11798	47	87	88	20 56.1
	28	17 58.41	11.18	6 25.6	58.5	734214	11980	42	86	88	52.0
	29	17 47.23	10.54	7 24.1	54.2	746194	12159	37	86	87	47.9
	30	17 36.69	− 9.89	8 18.3	+ 49.9	758353	+ 12333	32	85	87	43.8
5	1	11 17 26.80		+ 6 9 8.2		4.770686		19.27	1.85	−1.86	20 39.7

月 日	世界時 0h 赤経		赤緯		地心距離		視半徑	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
5 1	11 17 26.80	− 9.23	+ 6 9 8.2	+ 45.6	4.770686	+ 12503	19.27	1.85	−1.86	20 39.7
2	17 17.57	8.58	9 53.8	41.3	783189	12670	21	84	85	35.6
3	17 8.99	7.92	10 35.1	37.0	795859	12832	16	83	85	31.6
4	17 1.07	7.25	11 12.1	32.7	808691	12989	11	82	84	27.5
5	16 53.82	6.60	11 44.8	28.3	821680	13142	06	82	84	23.5
6	11 16 47.22		+ 6 12 13.1		4.834822		19.01	1.81	−1.83	20 19.4
7	16 41.29	− 5.93	12 37.1	+ 24.0	848114	+ 13292	18.96	81	82	15.4
8	16 36.04	5.25	12 56.7	19.6	861550	13436	91	81	82	11.4
9	16 31.47	4.57	13 12.0	15.3	875127	13577	86	81	81	7.4
10	16 27.57	3.90	13 22.9	10.9	888839	13712	80	80	81	20 3.4
		3.22		6.5		13842				
11	11 16 24.35		+ 6 13 29.4		4.902681		18.75	1.80	−1.80	19 59.4
12	16 21.81	− 2.54	13 31.5	+ 2.1	916650	+ 13969	70	80	79	55.5
13	16 19.94	1.87	13 29.3	− 2.2	930739	14089	64	79	79	51.5
14	16 18.76	1.18	13 22.8	6.5	944945	14206	59	79	78	47.6
15	16 18.26	− 0.50	13 11.9	10.9	959262	14317	53	78	78	43.7
		+ 0.17		15.3		14422				
16	11 16 18.43		+ 6 12 56.6		4.973684		18.48	1.77	−1.77	19 39.7
17	16 19.28	+ 0.85	12 37.0	− 19.6	4.988208	+ 14524	42	77	76	35.8
18	16 20.81	1.53	12 13.1	23.9	5.002828	14712	37	76	76	31.9
19	16 23.01	2.20	11 45.0	28.1	017540	14800	32	75	75	28.0
20	16 25.88	2.87	11 12.6	32.4	032340	14883	27	74	74	24.2
		3.53		36.6						
21	11 16 29.41		+ 6 10 36.0		5.047223		18.22	1.74	−1.74	19 20.3
22	16 33.60	+ 4.19	9 55.1	− 40.9	062184	+ 14961	16	73	73	16.4
23	16 38.46	4.86	9 10.0	45.1	077219	15035	11	73	72	12.6
24	16 43.98	5.52	8 20.7	49.3	092325	15106	06	73	72	8.8
25	16 50.13	6.15	7 27.4	53.3	107496	15171	18.00	72	71	4.9
		6.81		57.5		15233				
26	11 16 56.94		+ 6 6 29.9		5.122729		17.95	1.72	−1.70	19 1.1
27	17 4.40	+ 7.46	5 28.4	− 61.5	138020	+ 15291	89	71	70	18 57.3
28	17 12.50	8.10	4 22.8	65.6	153365	15345	84	71	69	53.6
29	17 21.23	8.73	3 13.2	69.6	168759	15394	79	70	68	49.8
30	17 30.59	9.36	1 59.6	73.6	184200	15441	73	70	68	46.0
31	17 40.58	9.99	6 0 42.0	77.6	199683	15483	68	69	67	42.2
		10.62		81.5		15521				
6 1	11 17 51.20		+ 5 59 20.5		5.215204		17.62	1.69	−1.67	18 38.5
2	18 2.44	+ 11.24	57 55.1	− 85.4	230761	+ 15557	57	68	66	34.8
3	18 14.30	11.86	56 25.8	89.3	246348	15587	51	68	65	31.0
4	18 26.77	12.47	54 52.6	93.2	261962	15614	46	67	65	27.3
5	18 39.86	13.09	53 15.5	97.1	277601	15639	41	66	64	23.6
		13.69		100.8		15658				
6	11 18 53.55		+ 5 51 34.7		5.293259		17.36	1.66	−1.63	18 19.9
7	19 7.84	+ 14.29	49 50.1	− 104.6	308932	+ 15673	31	65	63	16.2
8	19 22.72	14.88	48 1.7	108.4	324616	15684	26	65	62	12.5
9	19 38.21	15.49	46 9.6	112.1	340306	15690	21	65	61	8.9
10	19 54.29	16.08	44 13.8	115.8	355999	15693	16	65	61	5.2
		16.66		119.4		15690				
11	11 20 10.95		+ 5 42 14.4		5.371689		17.11	1.64	−1.60	18 1.6
12	20 28.17	+ 17.22	40 11.3	− 123.1	387374	+ 15685	06	64	59	17 57.9
13	20 45.97	17.80	38 4.6	126.7	403049	15675	17.01	64	59	54.3
14	21 4.35	18.38	35 54.3	130.3	418712	15663	16.96	63	58	50.7
15	21 23.28	18.93	33 40.5	133.8	434356	15644	91	63	57	47.1
		19.48		137.3		15624				
16	11 21 42.76		+ 5 31 23.2		5.449980		16.86	1.62	−1.57	17 43.5
17	22 2.79	+ 20.03	29 2.5	− 140.7	465580	+ 15600	81	62	56	39.9
18	22 23.36	20.57	26 38.4	144.1	481152	15572	77	61	56	36.3
19	22 44.46	21.10	24 10.9	147.5	496692	15540	72	61	55	32.7
20	23 6.09	21.63	21 40.1	150.8	512196	15504	68	60	54	29.1
		22.16		154.1		15466				
21	11 23 28.25		+ 5 19 6.0		5.527662		16.63	1.60	−1.54	17 25.6
22	23 50.92	+ 22.67	16 28.7	− 157.3	543086	+ 15424	59	59	53	22.0
23	24 14.10	23.18	13 48.2	160.5	558465	15379	54	59	53	18.5
24	24 37.77	23.67	11 4.5	163.7	573797	15332	49	58	52	15.0
25	25 1.95	24.18	8 17.6	166.9	589078	15281	44	57	51	11.4
		24.67		169.9		15227				
26	11 25 26.62		+ 5 5 27.7		5.604305		16.40	1.57	−1.51	17 7.9
27	25 51.77	+ 25.15	5 2 34.7	− 173.0	619476	+ 15171	35	56	50	4.4
28	26 17.40	25.63	4 59 38.7	176.0	634588	15112	31	56	50	17 0.9
29	26 43.50	26.10	56 39.7	179.0	649639	15051	27	56	49	16 57.4
30	27 10.07	26.57	53 37.7	182.0	664626	14987	22	56	49	53.9
		+ 27.03		− 184.8		+ 14919				
7 1	11 27 37.10		+ 4 50 32.9		5.679545		16.18	1.55	−1.48	16 50.4

月 日	世界時 0h 赤経		赤緯		地心距離		視半徑	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
7 1	11 27 37.10		+ 4 50 32.9		5.679545		16.18	1.55	−1.48	16 50.4
2	28 4.59	+ 27.49	47 25.2	− 187.7	694393	+ 14848	14	55	47	47.0
3	28 32.53	27.94	44 14.6	190.6	709168	14775	10	55	47	43.5
4	29 0.92	28.39	41 1.1	193.5	723866	14698	05	54	46	40.1
5	29 29.76	28.84	37 44.8	196.3	738485	14619	16.01	54	46	36.6
		29.27		199.0		14536				
6	11 29 59.03		+ 4 34 25.8		5.753021		15.97	1.53	−1.45	16 33.2
7	30 28.74	+ 29.71	31 4.1	− 201.7	767472	+ 14451	93	53	45	29.7
8	30 58.88	30.14	27 39.7	204.4	781835	14363	89	53	44	26.3
9	31 29.44	30.56	24 12.6	207.1	795106	14271	86	52	43	22.9
10	32 0.40	30.96	20 42.8	209.8	810281	14175	82	52	43	19.5
		31.38		212.3		14076				
11	11 32 31.78		+ 4 17 10.5		5.824357		15.78	1.52	−1.42	16 16.1
12	33 3.57	+ 31.79	13 35.6	− 214.9	838333	+ 13976	74	51	42	12.7
13	33 35.75	32.18	9 58.2	217.4	852205	13872	71	51	41	9.3
14	34 8.31	32.56	6 18.3	219.9	865970	13765	67	50	41	5.9
15	34 41.25	32.94	4 2 36.0	222.3	879627	13657	63	50	40	16 2.5
		33.33		224.7		13544				
16	11 35 14.58		+ 3 58 51.3		5.893171		15.60	1.50	−1.40	15 59.1
17	35 48.28	+ 33.70	55 4.3	− 227.0	906602	+ 13431	56	49	39	55.8
18	36 22.35	34.07	51 14.9	229.4	919917	13315	53	49	39	52.4
19	36 56.77	34.42	47 23.3	231.6	933112	13195	50	49	38	49.0
20	37 31.55	34.78	43 29.5	233.8	946187	13075	47	48	38	45.7
		35.12		236.1		12951				
21	11 38 6.67		+ 3 39 33.4		5.959138		15.43	1.48	−1.37	15 42.3
22	38 42.13	+ 35.46	35 35.1	− 238.3	971954	+ 12826	40	47	37	39.0
23	39 17.93	35.80	31 34.7	240.4	984663	12699	36	47	36	35.7
24	39 54.07	36.14	27 32.3	242.4	5.997235	12572	33	47	36	32.3
25	40 30.53	36.46	23 27.8	244.5	6.009375	12440	29	46	36	29.0
		36.78		246.5		12308				
26	11 41 7.31		+ 3 19 21.3		6.021933		15.26	1.46	−1.35	15 25.7
27	41 44.40	+ 37.09	15 12.8	− 248.5	034157	+ 12174	23	46	35	22.4
28	42 21.80	37.40	11 2.3	250.5	046196	12039	20	46	34	19.1
29	42 59.51	37.71	6 49.9	252.4	053096	11900	17	45	34	15.8
30	43 37.53	38.02	3 2 35.6	254.3	069355	11759	14	45	33	12.5
31	44 15.84	38.31	2 58 19.4	256.2	081472	11617	11	45	33	9.2
		38.60		258.0		11473				
8 1	11 44 54.44		+ 2 54 1.4		6.092915		15.08	1.45	−1.33	15 5.9
2	45 33.33	+ 38.89	49 41.6	− 259.8	104271	+ 11326	06	44	32	15 2.6
3	46 12.51	39.18	45 20.0	261.6	115448	11177	03	44	32	14 59.3
4	46 51.97	39.46	40 56.6	263.4	126475	11027	15.00	44	31	56.1
5	47 31.70	39.73	36 31.5	265.1	137348	10873	14.93	44	31	52.8
		40.00		266.7		10718				
6	11 48 11.70		+ 2 32 4.8		6.148066		14.95	1.43	−1.31	14 49.5
7	48 51.97	+ 40.27	27 36.4	− 268.4	158626	+ 10560	93	43	30	46.3
8	49 32.50	40.53	23 6.3	270.1	169026	10400	90	43	30	43.0
9	50 13.28	40.78	18 34.7	271.6	179264	10238	88	43	29	39.8
10	50 54.31	41.03	14 1.6	273.1	189338	10074	85	42	29	36.5
		41.27		274.6		9908				
11	11 51 35.58		+ 2 9 27.0		6.199246		14.83	1.42	−1.29	14 33.3
12	52 17.09	+ 41.51	4 50.9	− 276.1	208987	+ 9741	81	42	28	30.0
13	52 58.83	41.74	2 0 13.4	277.5	218551	9574	78	42	28	26.8
14	53 40.80	41.97	1 55 34.5	278.9	227953	9402	76	41	28	23.5
15	54 23.00	42.20	50 54.2	280.3	237193	9230	74	41	27	20.3
		42.41		281.6		9057				
16	11 55 5.41		+ 1 46 12.6		6.246250		14.72	1.41	−1.27	14 17.1
17	55 48.04	+ 42.63	41 29.7	− 282.9	255132	+ 8882	69	40	27	13.9
18	56 30.87	42.83	36 45.6	284.1	263838	8706	67	40	27	10.6
19	57 13.90	43.03	32 0.3	285.3	272368	8530	65	40	26	7.4
20	57 57.12	43.22	27 13.8	286.5	280720	8352	63	40	26	4.2
		43.41		287.7		8172				
21	11 58 40.53		+ 1 22 26.1		6.288892		14.61	1.40	−1.26	14 1.0
22	11 59 24.14	+ 43.61	17 37.3	− 288.8	296884	+ 7992	60	40	25	13 57.8
23	12 0 7.94	43.80	12 47.5	289.8	304695	7811	58	40	25	54.6
24	0 51.92	43.98	7 56.7	290.8	312323	7628	56	40	25	51.4
25	1 36.07	44.15	1 3 4.8	291.9	319768	7445	54	40	25	48.2
		44.32		292.9		7260				
26	12 2 20.39		+ 0 58 11.9		6.327028		14.53	1.39	−1.24	13 45.0
27	3 4.89	+ 44.50	53 18.0	− 293.9	334102	+ 7074	51	39	24	41.8
28	3 49.55	44.66	48 23.2	294.8	340989	6887	49	39	24	38.6
29	4 34.37	44.82	43 27.5	295.7	347688	6699	48	38	24	35.4
30	5 19.35	44.98	38 30.9	296.6	354197	6509	46	38	23	32.2
31	6 4.48	45.13	33 33.5	297.4	360515	6318	45	38	23	29.1
		+ 45.29		− 298.3		+ 6125				
9 1	12 6 49.77		+ 0 28 35.2		6.366640		14.44	1.38	−1.23	13 25.9

月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
9 1	12 6 49.77	+ 45.44	+ 0 28 35.2	− 299.0	6.366640		14.44	1.38	−1.23	13 25.9
2	7 35.21		23 36.2		372570	+ 5930	42	38	23	22.7
3	8 20.78	45.57	18 36.5	299.7	378304	5734	41	38	23	19.5
4	9 6.49	45.71	13 36.0	300.5	383841	5537	40	38	22	16.4
5	9 52.34	45.85	8 34.8	301.2	389180	5339	39	38	22	13.2
		45.97		301.8		5140				
6	12 10 38.31	+ 46.09	+ 0 3 33.0	− 302.4	6.394320		14.37	1.38	−1.22	13 10.0
7	11 24.40	46.21	− 0 1 29.4	303.1	399259	+ 4939	36	37	22	6.9
8	12 10.61	46.33	6 32.5	303.6	403996	4737	35	37	22	3.7
9	12 56.94	46.43	11 36.1	304.1	408530	4534	34	37	21	13 0.5
10	13 43.37	46.54	16 40.2	304.5	412861	4331	33	37	21	12 57.4
						4127				
11	12 14 29.91	+ 46.64	− 0 21 44.7	− 305.0	6.416988		14.32	1.37	−1.21	12 54.2
12	15 16.55		26 49.7		420909	+ 3921	31	37	21	51.0
13	16 3.28	46.73	31 55.1	305.4	424625	3716	30	37	21	47.9
14	16 50.10	46.82	37 0.8	305.7	428135	3510	30	37	21	44.7
15	17 37.01	46.91	42 6.8	306.0	431439	3304	29	37	21	41.6
		46.99		306.4		3098				
16	12 18 24.00	47.06	− 0 47 13.2	− 306.6	6.434537		14.29	1.37	−1.21	12 38.4
17	19 11.06	+ 47.13	52 19.8		437428	+ 2891	28	37	20	35.3
18	19 58.19		0 57 26.6	306.8	440111	2683	27	37	20	32.1
19	20 45.40	47.21	1 2 33.6	307.0	442587	2476	27	37	20	29.0
20	21 32.67	47.27	7 40.8	307.2	444855	2268	26	37	20	25.8
		47.33		307.3		2060				
21	12 22 20.00	47.39	− 1 12 48.1	− 307.4	6.446915		14.26	1.37	−1.20	12 22.7
22	23 7.39	+ 47.43	17 55.5		448767	+ 1852	25	37	20	19.5
23	23 54.82	47.49	23 3.0	307.5	450410	1643	25	36	20	16.4
24	24 42.31	47.54	28 10.6	307.6	451844	1434	25	36	20	13.3
25	25 29.85	47.58	33 18.2	307.6	453069	1225	25	36	20	10.1
				307.5		1014				
26	12 26 17.43	47.62	− 1 38 25.7	− 307.4	6.454083		14.24	1.36	−1.20	12 7.0
27	27 5.05	+ 47.66	43 33.1		454887	+ 804	24	36	20	3.8
28	27 52.71	47.69	48 40.5	307.4	455478	591	24	36	20	12 0.7
29	28 40.40	47.72	53 47.9	307.4	455857	379	24	36	20	11 57.6
30	29 28.12	47.73	1 58 55.1	307.2	456024	+ 167	24	36	20	54.4
				307.0		− 47				
10 1	12 30 15.85	47.76	− 2 4 2.1	− 306.9	6.455977		14.24	1.36	−1.20	11 51.3
2	31 3.61	+ 47.78	9 9.0		455716	− 261	24	36	20	48.1
3	31 51.39	47.78	14 15.7	306.7	455241	475	24	36	20	45.0
4	32 39.17	47.78	19 22.0	306.3	454551	690	24	36	20	41.8
5	33 26.95	47.78	24 28.0	306.0	453645	906	25	36	20	38.7
		47.78		305.6		1120				
6	12 34 14.73	47.78	− 2 29 33.6	− 305.3	6.452525		14.25	1.36	−1.20	11 35.6
7	35 2.51	+ 47.77	34 38.9		451190	− 1335	25	36	20	32.4
8	35 50.28	47.75	39 43.8	304.9	449640	1550	25	36	20	29.3
9	36 38.03	47.73	44 48.2	304.4	447875	1765	26	37	20	26.2
10	37 25.76	47.70	49 52.1	303.9	445895	1980	26	37	20	23.0
				303.4		2195				
11	12 38 13.46	47.67	− 2 54 55.5	− 302.8	6.443700		14.26	1.37	−1.20	11 19.9
12	39 1.13	+ 47.64	2 59 58.3		441292	− 2408	27	37	20	16.7
13	39 48.77	47.59	3 5 0.5	302.2	438670	2622	27	37	20	13.6
14	40 36.36	47.55	10 2.1	301.6	435835	2835	28	37	21	10.5
15	41 23.91	47.50	15 3.1	301.0	432787	3048	29	37	21	7.3
				300.2		3260				
16	12 42 11.41	47.44	− 3 20 3.3	− 299.5	6.429527		14.29	1.37	−1.21	11 4.2
17	42 58.85	+ 47.39	25 2.8		426057	− 3470	30	37	21	11 1.0
18	43 46.24	47.33	30 1.5	298.7	422376	3681	31	37	21	10 57.9
19	44 33.57	47.26	34 59.4	297.9	418485	3891	32	37	21	54.7
20	45 20.83	47.19	39 56.4	297.0	414386	4099	33	37	21	51.6
				296.2		4308				
21	12 46 8.02	47.12	− 3 44 52.6	− 295.4	6.410078		14.34	1.37	−1.21	10 48.4
22	46 55.14	+ 47.04	49 48.0		405561	− 4517	35	37	21	45.3
23	47 42.18	46.95	54 42.4	294.4	400836	4725	36	37	22	42.1
24	48 29.13	46.86	3 59 35.9	293.5	395904	4932	37	37	22	39.0
25	49 15.99	46.77	4 4 28.4	292.5	390765	5139	38	38	22	35.8
				291.5		5347				
26	12 50 2.76	46.68	− 4 9 19.9	− 290.5	6.385418		14.39	1.38	−1.22	10 32.7
27	50 49.44	+ 46.58	14 10.4		379865	− 5553	40	38	22	29.5
28	51 36.02	46.48	18 59.8	289.4	374105	5760	42	38	23	26.3
29	52 22.50	46.36	23 48.0	288.2	368139	5966	43	38	23	23.2
30	53 8.86	46.25	28 35.1	287.1	361968	6171	45	38	23	20.0
31	53 55.11	+ 46.13	33 21.1	− 286.0	355592	− 6376	46	38	23	16.8
				284.7		6581				
11 1	12 54 41.24		− 4 38 5.8		6.349011		14.48	1.38	−1.23	10 13.7

月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
11 1	12 54 41.24	+ 45.99	− 4 38 5.8	− 283.5	6.349011	− 6784	14.48	1.38	−1.23	10 13.7
2	55 27.23	45.85	42 49.3	282.3	342227	6986	49	39	24	10.5
3	56 13.08	45.72	47 31.6	280.9	335241	7188	51	39	24	7.3
4	56 58.80	45.57	52 12.5	279.5	328053	7388	53	39	24	4.2
5	57 44.37	45.42	4 56 52.0	278.1	320665	7587	54	40	24	10 1.0
6	12 58 29.79		− 5 1 30.1		6.313078		14.56	1.40	−1.25	9 57.8
7	12 59 15.05	+ 45.26	6 6.7	− 276.6	305293	− 7785	58	40	25	54.6
8	13 0 0.15	45.10	10 41.9	275.2	297311	7982	60	40	25	51.4
9	0 45.08	44.93	15 15.5	273.6	289134	8177	61	40	25	48.2
10	1 29.83	44.75	19 47.6	272.1	280763	8371	63	40	26	45.1
		44.56		270.5		8563				
11	13 2 14.39		− 5 24 18.1		6.272200		14.65	1.40	−1.26	9 41.9
12	2 58.77	+ 44.38	28 47.0	− 268.9	263447	− 8753	67	40	26	38.7
13	3 42.97	44.20	33 14.3	267.3	254505	8942	69	40	27	35.5
14	4 26.97	44.00	37 39.8	265.5	245377	9128	72	41	27	32.3
15	5 10.76	43.79	42 3.6	263.8	236063	9314	74	41	27	29.0
		43.58		262.1		9498				
16	13 5 54.34		− 5 46 25.7		6.226565		14.76	1.41	−1.28	9 25.8
17	6 37.71	+ 43.37	50 45.9	− 260.2	216884	− 9681	78	41	28	22.6
18	7 20.86	43.15	55 4.3	258.4	207024	9860	81	42	28	19.4
19	8 3.78	42.92	5 59 20.9	256.6	196985	10039	83	42	29	16.2
20	8 46.48	42.70	6 3 35.6	254.7	186770	10215	85	42	29	13.0
		42.47		252.8		10391				
21	13 9 28.95	42.23	− 6 7 48.4	− 250.9	6.176379		14.88	1.42	−1.29	9 9.7
22	10 11.18	+ 41.98	11 59.3	248.9	165814	− 10565	90	43	30	6.5
23	10 53.16	41.73	16 8.2	247.0	155076	10738	93	43	30	3.3
24	11 34.89	41.48	20 15.2	244.9	144166	10910	96	43	31	9 0.0
25	12 16.37	41.22	24 20.1	242.8	133085	11081	14.98	43	31	8 56.8
						11249				
26	13 12 57.59	40.94	− 6 28 22.9	− 240.7	6.121836		15.01	1.44	−1.31	8 53.5
27	13 38.53	+ 40.66	32 23.6	238.6	110421	− 11415	04	44	32	50.3
28	14 19.19	40.38	36 22.2	236.4	098841	11580	07	44	32	47.0
29	14 59.57	40.09	40 18.6	234.1	087098	11743	10	44	33	43.8
30	15 39.66	39.79	44 12.7	231.9	075194	11904	13	45	33	40.5
						12063				
12 1	13 16 19.45		− 6 48 4.6		6.063131		15.16	1.45	−1.33	8 37.2
2	16 58.93	+ 39.48	51 54.3	− 229.7	050911	− 12220	19	45	34	33.9
3	17 38.11	39.18	55 41.6	227.3	038537	12374	22	45	34	30.6
4	18 16.97	38.86	6 59 26.5	224.9	026010	12527	26	46	35	27.3
5	18 55.50	38.53	7 3 9.0	222.5	013334	12676	29	46	35	24.1
		38.19		220.1		12823				
6	13 19 33.69		− 7 6 49.1		6.000511		15.32	1.46	−1.36	8 20.8
7	20 11.54	+ 37.85	10 26.7	− 217.6	5.987544	− 12967	35	47	36	17.5
8	20 49.05	37.51	14 1.7	215.0	974436	13108	39	47	37	14.1
9	21 26.20	37.15	17 34.2	212.5	961190	13246	42	48	37	10.8
10	22 2.99	36.79	21 4.1	209.9	947808	13382	45	48	38	7.5
		36.42		207.3		13516				
11	13 22 39.41		− 7 24 31.4		5.934292		15.49	1.49	−1.38	8 4.2
12	23 15.46	+ 36.05	27 56.0	− 204.6	920646	− 13646	52	49	39	8 0.8
13	23 51.12	35.66	31 18.0	202.0	906874	13772	56	49	39	7 57.5
14	24 26.40	35.28	34 37.3	199.3	892978	13896	60	49	40	54.1
15	25 1.29	34.89	37 53.8	196.5	878961	14017	63	49	40	50.8
		34.49		193.7		14135				
16	13 25 35.78		− 7 41 7.5		5.864826		15.67	1.50	−1.41	7 47.4
17	26 9.86	+ 34.08	44 18.4	− 190.9	850575	− 14251	71	50	41	44.1
18	26 43.53	33.67	47 26.5	188.1	836212	14363	75	50	42	40.7
19	27 16.79	33.26	50 31.7	185.2	821738	14474	78	51	42	37.3
20	27 49.62	32.83	53 34.0	182.3	807158	14580	82	51	43	33.9
		32.40		179.5		14684				
21	13 28 22.02		− 7 56 33.5		5.792474		15.86	1.52	−1.43	7 30.5
22	28 53.98	+ 31.96	7 59 30.0	− 176.5	777688	− 14786	90	53	44	27.1
23	29 25.49	31.51	8 2 23.5	173.5	762803	14885	94	53	44	23.7
24	29 56.55	31.06	5 14.1	170.6	747822	14981	15.99	54	45	20.3
25	30 27.15	30.60	8 1.6	167.5	732748	15074	16.03	54	46	16.8
		30.13		164.4		15164				
26	13 30 57.28		− 8 10 46.0		5.717584		16.07	1.54	−1.46	7 13.4
27	31 26.94	+ 29.66	13 27.3	− 161.3	702333	− 15251	12	54	47	10.0
28	31 56.12	29.18	16 5.4	158.1	686998	15335	16	55	47	6.5
29	32 24.80	28.68	18 40.4	155.0	671583	15415	21	55	48	7 3.1
30	32 52.98	28.18	21 12.1	151.7	656091	15492	25	55	49	6 59.6
31	33 20.66	27.68	23 40.5	148.4	640526	15565	29	56	49	56.1
		+ 27.16		− 145.2		− 15633				
12 32	13 33 47.82		− 8 26 5.7		5.624893		16.34	1.56	−1.50	6 52.6

月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
1 1	6 30 37.96	− 21.32	+22 29 56.1	+ 22.3	8.04831	+ 112	9.26	1.09	−0.25	23 45.3
2	30 16.64	21.28	30 18.4	22.2	04943	143	26	09	24	41.0
3	29 55.36	21.23	30 40.6	22.1	05086	175	26	09	24	36.7
4	29 34.13	21.16	31 2.7	22.0	05261	206	26	09	23	32.4
5	29 12.97	21.07	31 24.7	21.8	05467	238	26	09	23	28.1
6	6 28 51.90	− 20.98	+22 31 46.5	+ 21.6	8.05705		9.25	1.09	−0.22	23 23.8
7	28 30.92	20.88	32 8.1	21.5	05975	+ 270	25	09	22	19.6
8	28 10.04	20.76	32 29.6	21.4	06276	301	25	09	21	15.3
9	27 49.28	20.63	32 51.0	21.2	06609	333	25	09	21	11.0
10	27 28.65	20.49	33 12.2	21.0	06972	363	24	09	20	6.8
11	6 27 8.16	− 20.33	+22 33 33.2	+ 20.9	8.07367	395	9.24	1.09	−0.20	23 2.5
12	26 47.83	20.16	33 54.1	20.7	07793	+ 426	24	09	19	22 58.2
13	26 27.67	19.98	34 14.8	20.5	08250	457	23	09	18	54.0
14	26 7.69	19.79	34 35.3	20.3	08737	487	23	09	18	49.7
15	25 47.90	19.59	34 55.6	20.1	09254	517	22	09	17	45.4
16	6 25 28.31	− 19.37	+22 35 15.7	+ 19.9	8.09802	548	9.21	1.09	−0.16	22 41.2
17	25 8.94	19.15	35 35.6	19.8	10379	+ 577	21	09	16	36.9
18	24 49.79	18.91	35 55.4	19.5	10986	607	20	09	15	32.7
19	24 30.88	18.65	36 14.9	19.3	11623	637	19	09	14	28.5
20	24 12.23	18.40	36 34.2	19.1	12289	666	18	09	14	24.2
21	6 23 53.83	− 18.13	+22 36 53.3	+ 18.9	8.12984	695	9.17	1.09	−0.13	22 20.0
22	23 35.70	17.84	37 12.2	18.7	13707	+ 723	16	08	13	15.8
23	23 17.86	17.55	37 30.9	18.5	14458	751	15	08	12	11.5
24	23 0.31	17.26	37 49.4	18.3	15237	779	14	08	11	7.3
25	22 43.05	16.96	38 7.7	18.1	16044	807	14	08	11	22 3.1
26	6 22 26.09	− 16.64	+22 38 25.8	+ 17.8	8.16878	834	9.13	1.08	−0.10	21 58.9
27	22 9.45	16.31	38 43.6	17.6	17738	+ 860	12	08	10	54.7
28	21 53.14	15.98	39 1.2	17.4	18625	887	11	08	09	50.5
29	21 37.16	15.64	39 18.6	17.2	19538	913	10	08	08	46.3
30	21 21.52	15.30	39 35.8	17.0	20477	939	09	07	07	42.1
31	21 6.22	14.94	39 52.8	16.8	21441	964	08	07	07	37.9
2 1	6 20 51.28	− 14.58	+22 40 9.6	+ 16.5	8.22430	989	9.07	1.07	−0.06	21 33.8
2	20 36.70	14.20	40 26.1	16.3	23444	+ 1014	06	07	05	29.6
3	20 22.50	13.82	40 42.4	16.1	24483	1039	05	07	05	25.4
4	20 8.68	13.44	40 58.5	15.9	25546	1063	04	07	04	21.3
5	19 55.24	13.05	41 14.4	15.6	26633	1087	03	07	04	17.1
6	6 19 42.19	− 12.65	+22 41 30.0	+ 15.4	8.27742	1109	9.02	1.07	−0.03	21 13.0
7	19 29.54	12.24	41 45.4	15.3	28874	+ 1132	9.00	06	02	8.9
8	19 17.30	11.83	42 0.7	15.1	30029	1155	8.99	06	02	4.7
9	19 5.47	11.41	42 15.8	14.8	31206	1177	98	06	− 0.01	21 0.6
10	18 54.06	10.98	42 30.6	14.6	32405	1199	96	06	0.00	20 56.5
11	6 18 43.08	− 10.55	+22 42 45.2	+ 14.4	8.33624	1219	8.95	1.06	0.00	20 52.4
12	18 32.53	10.11	42 59.6	14.2	34865	+ 1241	93	06	+0.01	48.3
13	18 22.42	9.67	43 13.8	14.0	36126	1261	92	06	02	44.2
14	18 12.75	9.22	43 27.8	13.7	37407	1281	90	06	02	40.1
15	18 3.53	8.77	43 41.5	13.5	38707	1300	89	05	03	36.0
16	6 17 54.76	− 8.31	+22 43 55.0	+ 13.3	8.40025	1318	8.87	1.05	+0.04	20 31.9
17	17 46.45	7.84	44 8.3	13.2	41362	+ 1337	86	05	04	27.9
18	17 38.61	7.37	44 21.5	13.0	42716	1354	85	05	05	23.8
19	17 31.24	6.91	44 34.5	12.8	44087	1371	83	04	06	19.8
20	17 24.33	6.45	44 47.3	12.6	45475	1388	82	04	06	15.7
21	6 17 17.88	− 5.98	+22 44 59.9	+ 12.3	8.46879	1404	8.81	1.04	+0.07	20 11.7
22	17 11.90	5.50	45 12.2	12.2	48299	+ 1420	79	04	07	7.7
23	17 6.40	5.03	45 24.4	12.0	49734	1435	78	03	08	20 3.7
24	17 1.37	4.54	45 36.4	11.8	51184	1450	76	03	09	19 59.7
25	16 56.83	4.07	45 48.2	11.6	52648	1464	75	03	09	55.7
26	6 16 52.76	− 3.59	+22 45 59.8	+ 11.3	8.54125	1477	8.73	1.03	+0.10	19 51.7
27	16 49.17	3.11	46 11.1	11.1	55615	+ 1490	72	03	10	47.7
28	16 46.06	2.63	46 22.2	10.9	57118	1503	70	03	11	43.7
3 1	6 16 43.43		+22 46 33.1		8.58634	+ 1516	8.69	1.03	+0.12	19 39.7

月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	等級	本初子午線正中時
	h m s	s	° ′ ″	″			″	″		h m
3 1	6 16 43.43	− 2.14	+22 46 33.1	+ 10.7	8.58634	+ 1528	8.69	1.03	+0.12	19 39.7
2	16 41.29	1.66	46 43.8	10.6	60162	1540	67	03	12	35.8
3	16 39.63	1.17	46 54.4	10.4	61702	1550	66	02	13	31.8
4	16 38.46	0.69	47 4.8	10.1	63252	1561	64	02	13	27.9
5	16 37.77	− 0.20	47 14.9	9.9	64813	1570	62	02	14	23.9
6	6 16 37.57	+ 0.29	+22 47 24.8	+ 9.8	8.66383		8.61	1.02	+0.14	19 20.0
7	16 37.86	0.78	47 34.6	9.6	67962	+ 1579	59	01	15	16.1
8	16 38.64	1.26	47 44.2	9.3	69551	1589	57	01	16	12.2
9	16 39.90	1.76	47 53.5	9.1	71148	1597	56	01	16	8.3
10	16 41.66	2.24	48 2.6	8.9	72753	1605 1613	54	01	17	4.4
11	6 16 43.90	+ 2.73	+22 48 11.5	+ 8.6	8.74366		8.53	1.00	+0.17	19 0.5
12	16 46.63	3.22	48 20.1	8.4	75985	+ 1619	51	00	18	18 56.6
13	16 49.85	3.71	48 28.5	8.2	77611	1626	50	00	18	52.7
14	16 53.56	4.19	48 36.7	8.0	79243	1632	48	00	19	48.9
15	16 57.75	4.67	48 44.7	7.8	80880	1637 1642	47	00	19	45.0
16	6 17 2.42	+ 5.16	+22 48 52.5	+ 7.6	8.82522		8.45	1.00	+0.20	18 41.2
17	17 7.53	5.64	49 0.1	7.3	84168	+ 1646	44	00	20	37.3
18	17 13.22	6.11	49 7.4	7.1	85818	1650	42	1.00	21	33.5
19	17 19.33	6.59	49 14.5	6.8	87471	1653	41	0.99	21	29.7
20	17 25.92	7.07	49 21.3	6.6	89127	1656 1658	39	99	21	25.9
21	6 17 32.99	+ 7.54	+22 49 27.9	+ 6.3	8.90785		8.38	0.99	+0.22	18 22.1
22	17 40.53	8.00	49 34.2	6.1	92446	+ 1661	36	99	22	18.2
23	17 48.53	8.47	49 40.3	5.8	94108	1662	35	98	23	14.5
24	17 57.00	8.93	49 46.1	5.6	95770	1662	33	98	23	10.7
25	18 5.93	9.39	49 51.7	5.3	97432	1662	31	98	23	6.9
26	6 18 15.32	+ 9.84	+22 49 57.0	+ 5.0	8.99094		8.30	0.98	+0.24	18 3.1
27	18 25.16	10.30	50 2.0	4.8	9.00756	+ 1662	28	98	24	17 59.4
28	18 35.46	10.75	50 6.8	4.5	02418	1662	26	98	25	55.6
29	18 46.21	11.19	50 11.3	4.1	04079	1661	25	98	25	51.9
30	18 57.40	11.63	50 15.4	3.9	05737	1658	23	98	25	48.1
31	19 9.03	12.07	50 19.3	3.5	07393	1656 1654	22	97	26	44.4
4 1	6 19 21.10	+ 12.51	+22 50 22.8	+ 3.3	9.09047		8.20	0.97	+0.26	17 40.7
2	19 33.61	12.94	50 26.1	2.9	10698	+ 1651	19	97	27	36.9
3	19 46.55	13.37	50 29.0	2.7	12345	1647	18	97	27	33.2
4	19 59.92	13.79	50 31.7	2.3	13988	1643	16	96	27	29.5
5	20 13.71	14.21	50 34.0	2.0	15627	1639 1635	15	96	28	25.8
6	6 20 27.92	+ 14.63	+22 50 36.0	+ 1.7	9.17262		8.13	0.96	+0.28	17 22.1
7	20 42.55	15.06	50 37.7	1.3	18892	+ 1630	12	96	28	18.4
8	20 57.61	15.47	50 39.0	1.0	20516	1624	10	95	29	14.8
9	21 13.08	15.88	50 40.0	0.6	22134	1618	08	95	29	11.1
10	21 28.96	16.29	50 40.6	+ 0.3	23746	1612 1605	07	95	29	7.4
11	6 21 45.25	+ 16.69	+22 50 40.9	− 0.1	9.25351		8.06	0.95	+0.30	17 3.8
12	22 1.94	17.09	50 40.8	0.4	26949	+ 1598	04	95	30	17 0.1
13	22 19.03	17.48	50 40.4	0.8	28539	1590	03	95	30	16 56.5
14	22 36.51	17.86	50 39.6	1.1	30122	1583	02	95	30	52.8
15	22 54.37	18.25	50 38.5	1.6	31696	1574 1564	8.01	95	31	49.2
16	6 23 12.62	+ 18.63	+22 50 36.9	− 1.9	9.33260		7.99	0.94	+0.31	16 45.6
17	23 31.25	19.00	50 35.0	2.3	34815	+ 1555	98	94	31	42.0
18	23 50.25	19.37	50 32.7	2.8	36361	1546	97	94	31	38.4
19	24 9.62	19.74	50 29.9	3.2	37897	1536	96	94	32	34.8
20	24 29.36	20.10	50 26.7	3.6	39423	1526 1515	94	93	32	31.1
21	6 24 49.46	+ 20.45	+22 50 23.1	− 4.0	9.40938		7.93	0.93	+0.32	16 27.6
22	25 9.91	20.80	50 19.1	4.5	42442	+ 1504	92	93	32	24.0
23	25 30.71	21.14	50 14.6	4.8	43934	1492	90	93	32	20.4
24	25 51.85	21.48	50 9.8	5.3	45415	1481	89	93	33	16.8
25	26 13.33	21.82	50 4.5	5.8	46884	1469 1457	87	93	33	13.2
26	6 26 35.15	+ 22.15	+22 49 58.7	− 6.2	9.48341		7.86	0.93	+0.33	16 9.7
27	26 57.30	22.47	49 52.5	6.7	49786	+ 1445	85	93	33	6.1
28	27 19.77	22.79	49 45.8	7.1	51218	1432 1418	84	92	33	16 2.6
29	27 42.56	23.11	49 38.7	7.6	52636	1404	83	92	33	15 59.0
30	28 5.67	+ 23.42	49 31.1	− 8.0	54040	+ 1390	82	92	33	55.5
5 1	6 28 29.09		+22 49 23.1		9.55430		7.81	0.92	+0.33	15 51.9

月	日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
		h m s	° ′ ″		″	″		h m
5	1	6 28 29.09	+22 49 23.1	9.55430	7.81	0.92	+0.33	15 51.9
		+23.73	− 8.6	+1377				
	2	28 52.82	49 14.5	56807	79	92	33	48.4
		24.03	9.0	1363				
	3	29 16.85	49 5.5	58170	78	92	34	44.9
		24.33	9.5	1349				
	4	29 41.18	48 56.0	59519	77	92	34	41.3
		24.63	10.0	1333				
	5	30 5.81	48 46.0	60852	76	92	34	37.8
		24.93	10.6	1318				
	6	6 30 30.74	+22 48 35.4	9.62170	7.75	0.91	+0.34	15 34.3
		+25.21	− 11.0	+1303				
	7	30 55.95	48 24.4	63473	74	91	34	30.8
		25.49	11.5	1287				
	8	31 21.44	48 12.9	64760	73	91	34	27.3
		25.76	12.0	1271				
	9	31 47.20	48 0.9	66031	72	91	34	23.8
		26.03	12.6	1254				
	10	32 13.23	47 48.3	67285	71	91	34	20.3
		26.30	13.1	1238				
	11	6 32 39.53	+22 47 35.2	9.68523	7.70	0.91	+0.34	15 16.8
		+26.57	− 13.6	+1221				
	12	33 6.10	47 21.6	69744	69	91	34	13.3
		26.83	14.2	1204				
	13	33 32.93	47 7.4	70948	69	91	34	9.8
		27.08	14.7	1186				
	14	34 0.01	46 52.7	72134	68	90	34	6.3
		27.33	15.2	1168				
	15	34 27.34	46 37.5	73302	67	90	34	15 2.9
		27.57	15.7	1151				
	16	6 34 54.91	+22 46 21.8	9.74453	7.66	0.90	+0.34	14 59.4
		+27.80	− 16.3	+1132				
	17	35 22.71	46 5.5	75585	65	90	34	55.9
		28.04	16.9	1113				
	18	35 50.75	45 48.6	76698	64	90	34	52.4
		28.26	17.4	1095				
	19	36 19.01	45 31.2	77793	63	90	34	49.0
		28.48	17.9	1077				
	20	36 47.49	45 13.3	78870	62	90	34	45.5
		28.69	18.5	1057				
	21	6 37 16.18	+22 44 54.8	9.79927	7.62	0.90	+0.34	14 42.1
		+28.90	− 19.1	+1038				
	22	37 45.08	44 35.7	80965	61	90	34	38.6
		29.11	19.7	1019				
	23	38 14.19	44 16.0	81984	60	90	34	35.2
		29.31	20.2	999				
	24	38 43.50	43 55.8	82983	59	90	34	31.7
		29.50	20.8	980				
	25	39 13.00	43 35.0	83963	58	90	34	28.3
		29.70	21.4	959				
	26	6 39 42.70	+22 43 13.6	9.84922	7.57	0.89	+0.34	14 24.9
		+29.88	− 22.0	+ 940				
	27	40 12.58	42 51.6	85862	56	89	34	21.4
		30.06	22.5	920				
	28	40 42.64	42 29.1	86782	56	89	34	18.0
		30.24	23.1	899				
	29	41 12.88	42 6.0	87681	55	89	34	14.6
		30.42	23.7	879				
	30	41 43.30	41 42.3	88560	55	89	33	11.1
		30.59	24.3	858				
	31	42 13.89	41 18.0	89418	54	89	33	7.7
		30.75	24.9	838				
6	1	6 42 44.64	+22 40 53.1	9.90256	7.53	0.89	+0.33	14 4.3
		+30.91	− 25.4	+ 816				
	2	43 15.55	40 27.7	91072	53	89	33	14 0.9
		31.06	26.0	795				
	3	43 46.61	40 1.7	91867	52	89	33	13 57.5
		31.21	26.6	774				
	4	44 17.82	39 35.1	92641	51	89	33	54.0
		31.36	27.2	753				
	5	44 49.18	39 7.9	93394	51	89	33	50.6
		31.51	27.7	731				
	6	6 45 20.69	+22 38 40.2	9.94125	7.50	0.89	+0.32	13 47.2
		+31.64	− 28.4	+ 709				
	7	45 52.33	38 11.8	94834	50	88	32	43.8
		31.78	28.9	687				
	8	46 24.11	37 42.9	95521	49	88	32	40.4
		31.91	29.5	665				
	9	46 56.02	37 13.4	96186	49	88	32	37.0
		32.04	30.1	642				
	10	47 28.06	36 43.3	96828	48	88	32	33.6
		32.15	30.7	620				
	11	6 48 0.21	+22 36 12.6	9.97448	7.48	0.88	+0.32	13 30.2
		+32.26	− 31.2	+ 598				
	12	48 32.47	35 41.4	98046	47	88	31	26.8
		32.37	31.8	575				
	13	49 4.84	35 9.6	98621	47	88	31	23.4
		32.47	32.4	552				
	14	49 37.31	34 37.2	99173	47	88	31	20.0
		32.56	33.0	529				
	15	50 9.87	34 4.2	9.99702	46	88	31	16.6
		32.66	33.5	507				
	16	6 50 42.53	+22 33 30.7	10.00209	7.46	0.88	+0.31	13 13.3
		+32.75	− 34.1	+ 484				
	17	51 15.28	32 56.6	00693	46	88	30	9.9
		32.83	34.7	460				
	18	51 48.11	32 21.9	01153	45	88	30	6.5
		32.91	35.2	437				
	19	52 21.02	31 46.7	01590	45	88	30	13 3.1
		32.97	35.8	414				
	20	52 53.99	31 10.9	02004	44	88	30	12 59.7
		33.05	36.4	391				
	21	6 53 27.04	+22 30 34.5	10.02395	7.44	0.88	+0.29	12 56.3
		+33.11	− 36.9	+ 368				
	22	54 0.15	29 57.6	02763	44	88	29	52.9
		33.17	37.4	344				
	23	54 33.32	29 20.2	03107	43	88	29	49.6
		33.23	38.0	321				
	24	55 6.55	28 42.2	03428	43	88	29	46.2
		33.28	38.6	298				
	25	55 39.83	28 3.6	03726	43	88	28	42.8
		33.33	39.1	275				
	26	6 56 13.16	+22 27 24.5	10.04001	7.43	0.88	+0.28	12 39.4
		+33.36	− 39.6	+ 251				
	27	56 46.52	26 44.9	04252	42	88	28	36.0
		33.40	40.1	227				
	28	57 19.92	26 4.8	04479	42	88	27	32.7
		33.44	40.7	204				
	29	57 53.36	25 24.1	04683	42	88	27	29.3
		33.48	41.2	181				
	30	58 26.84	24 42.9	04864	42	88	27	25.9
		+33.50	−41.6	+ 157				
7	1	6 59 0.34	+22 24 1.3	10.05021	7.42	0.88	+0.27	12 22.5

月	日	世界時 0h 赤経	赤緯	地心距離	視半径	地平視差	等級	本初子午線正中時
		h m s	° ′ ″		″	″		h m
7	1	6 59 0.34	+22 24 1.3	10.05021	7.42	0.88	+0.27	12 22.5
		+33.52	− 42.2	+ 133				
	2	6 59 33.86	23 19.1	05154	42	88	26	19.2
		33.54	42.7	110				
	3	7 0 7.40	22 36.4	05264	42	88	26	15.8
		33.55	43.2	85				
	4	0 40.95	21 53.2	05349	42	88	26	12.4
		33.56	43.7	62				
	5	1 14.51	21 9.5	05411	42	88	25	9.0
		33.56	44.1	38				
	6	7 1 48.07	+22 20 25.4	10.05449	7.42	0.88	+0.25	12 5.7
		+33.57	− 44.6	+ 14				
	7	2 21.64	19 40.8	05463	42	88	25	12 2.3
		33.56	45.1	− 10				
	8	2 55.20	18 55.7	05453	42	88	26	11 58.9
		33.55	45.5	34				
	9	3 28.75	18 10.2	05419	42	88	26	55.5
		33.53	46.0	58				
	10	4 2.28	17 24.2	05361	42	88	26	52.2
		33.51	46.5	82				
	11	7 4 35.79	+22 16 37.7	10.05279	7.42	0.88	+0.27	11 48.8
		+33.49	− 46.9	− 105				
	12	5 9.28	15 50.8	05174	42	88	27	45.4
		33.46	47.3	130				
	13	5 42.74	15 3.5	05044	42	88	28	42.0
		33.42	47.7	154				
	14	6 16.16	14 15.8	04890	42	88	28	38.6
		33.38	48.1	177				
	15	6 49.54	13 27.7	04713	42	88	28	35.3
		33.34	48.5	201				
	16	7 7 22.88	+22 12 39.2	10.04512	7.43	0.88	+0.29	11 31.9
		+33.28	− 48.9	− 225				
	17	7 56.16	11 50.3	04287	43	88	29	28.5
		33.23	49.3	249				
	18	8 29.39	11 1.0	04038	43	88	30	25.1
		33.18	49.7	272				
	19	9 2.57	10 11.3	03766	43	88	30	21.7
		33.11	50.0	296				
	20	9 35.68	9 21.3	03470	44	88	31	18.4
		33.05	50.4	318				
	21	7 10 8.73	+22 8 30.9	10.03152	7.44	0.88	+0.31	11 15.0
		+32.97	− 50.7	− 342				
	22	10 41.70	7 40.2	02810	44	88	31	11.6
		32.89	51.0	366				
	23	11 14.59	6 49.2	02444	44	88	32	8.2
		32.81	51.4	388				
	24	11 47.40	5 57.8	02056	45	88	32	4.8
		32.73	51.7	412				
	25	12 20.13	5 6.1	01644	45	88	32	11 1.4
		32.65	51.9	434				
	26	7 12 52.78	+22 4 14.2	10.01210	7.45	0.88	+0.33	10 58.0
		+32.56	− 52.2	− 458				
	27	13 25.34	3 22.0	00752	45	88	33	54.7
		32.46	52.5	480				
	28	13 57.80	2 29.5	10.00272	46	88	34	51.3
		32.36	52.7	503				
	29	14 30.16	1 36.8	9.99769	46	88	34	47.9
		32.26	53.0	526				
	30	15 2.42	22 0 43.8	99243	46	88	34	44.5
		32.15	53.2	549				
	31	15 34.57	+21 59 50.6	98694	47	88	34	41.1
		32.04	53.4	571				
8	1	7 16 6.61	+21 58 57.2	9.98123	7.47	0.88	+0.35	10 37.7
		+31.92	− 53.7	− 594				
	2	16 38.53	58 3.5	97529	48	88	35	34.3
		31.79	53.9	616				
	3	17 10.32	57 9.6	96913	48	88	36	30.9
		31.67	54.0	639				
	4	17 41.99	56 15.6	96274	49	88	36	27.4
		31.54	54.2	661				
	5	18 13.53	55 21.4	95613	49	88	36	24.0
		31.41	54.3	683				
	6	7 18 44.94	+21 54 27.1	9.94930	7.50	0.88	+0.37	10 20.6
		+31.27	− 54.5	− 705				
	7	19 16.21	53 32.6	94225	50	88	37	17.2
		31.12	54.6	727				
	8	19 47.33	52 38.0	93498	51	88	37	13.8
		30.96	54.8	749				
	9	20 18.29	51 43.2	92749	52	89	37	10.4
		30.81	54.8	771				
	10	20 49.10	50 48.4	91978	52	89	38	6.9
		30.64	54.9	793				
	11	7 21 19.74	+21 49 53.5	9.91185	7.53	0.89	+0.38	10 3.5
		+30.47	− 55.0	− 814				
	12	21 50.21	48 58.5	90371	54	89	38	10 0.1
		30.30	55.0	834				
	13	22 20.51	48 3.5	89537	54	89	38	9 56.7
		30.13	55.0	856				
	14	22 50.64	47 8.5	88681	55	89	39	53.2
		29.95	55.1	876				
	15	23 20.59	46 13.4	87805	55	89	39	49.8
		29.77	55.1	897				
	16	7 23 50.36	+21 45 18.3	9.86908	7.56	0.89	+0.39	9 46.3
		+29.59	− 55.0	− 917				
	17	24 19.95	44 23.3	85991	57	89	39	42.9
		29.39	55.0	937				
	18	24 49.34	43 28.3	85054	57	89	39	39.5
		29.18	55.0	958				
	19	25 18.52	42 33.3	84096	58	89	40	36.0
		28.98	54.9	978				
	20	25 47.50	41 38.4	83118	59	89	40	32.6
		28.77	54.8	997				
	21	7 26 16.27	+21 40 43.6	9.82121	7.60	0.90	+0.40	9 29.1
		+28.57	− 54.7	−1016				
	22	26 44.84	39 48.9	81105	60	90	40	25.7
		28.35	54.6	1035				
	23	27 13.19	38 54.3	80070	61	90	40	22.2
		28.14	54.5	1055				
	24	27 41.33	37 59.8	79015	62	90	40	18.7
		27.92	54.3	1073				
	25	28 9.25	37 5.5	77942	63	90	41	15.3
		27.69	54.2	1091				
	26	7 28 36.94	+21 36 11.3	9.76851	7.63	0.90	+0.41	9 11.8
		+27.46	− 54.0	−1110				
	27	29 4.40	35 17.3	75741	64	90	41	8.3
		27.23	53.8	1128				
	28	29 31.63	34 23.5	74613	65	90	41	4.8
		26.98	53.6	1147				
	29	29 58.61	33 29.9	73466	66	91	41	9 1.3
		26.74	53.3	1164				
	30	30 25.35	32 36.6	72302	67	91	41	8 57.8
		26.49	53.1	1183				
	31	30 51.84	31 43.5	71119	68	91	41	54.3
		+26.24	− 52.9	−1200				
9	1	7 31 18.08	+21 30 50.6	9.69919	7.69	0.91	+0.42	8 50.8

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	h m s s	° ′ ″ ″		″	″		h m
9 1	7 31 18.08	+21 30 50.6	9.69919	7.69	0.91	+0.42	8 50.8
	+25.98	− 52.5	−1217				
2	31 44.06	29 58.1	68702	70	91	42	47.3
	25.72	52.2	1233				
3	32 9.78	29 5.9	67469	71	91	42	43.8
	25.45	51.9	1251				
4	32 35.23	28 14.0	66218	72	91	42	40.3
	25.17	51.5	1267				
5	33 0.40	27 22.5	64951	73	91	42	36.8
	24.89	51.2	1283				
6	7 33 25.29	+21 26 31.3	9.63668	7.74	0.91	+0.42	8 33.3
	+24.60	− 50.7	−1299				
7	33 49.89	25 40.6	62369	75	91	42	29.8
	24.32	50.4	1315				
8	34 14.21	24 50.2	61054	76	91	42	26.2
	24.03	50.0	1330				
9	34 38.24	24 0.2	59724	77	91	42	22.7
	23.73	49.5	1345				
10	35 1.97	23 10.7	58379	78	92	42	19.2
	23.42	49.0	1359				
11	7 35 25.39	+21 22 21.7	9.57020	7.79	0.92	+0.42	8 15.6
	+23.12	− 48.6	−1374				
12	35 48.51	21 33.1	55646	80	92	42	12.1
	22.80	48.1	1388				
13	36 11.31	20 45.0	54258	81	92	42	8.5
	22.48	47.6	1402				
14	36 33.79	19 57.4	52856	83	93	42	4.9
	22.17	47.0	1415				
15	36 55.96	19 10.4	51441	84	93	42	8 1.4
	21.85	46.4	1428				
16	7 37 17.81	+21 18 24.0	9.50013	7.85	0.93	+0.42	7 57.8
	+21.52	− 45.9	−1440				
17	37 39.33	17 38.1	48573	86	93	42	54.2
	21.19	45.2	1453				
18	38 0.52	16 52.9	47120	88	93	42	50.7
	20.85	44.7	1465				
19	38 21.37	16 8.2	45655	89	93	41	47.1
	20.51	44.0	1477				
20	38 41.88	15 24.2	44178	90	93	41	43.5
	20.16	43.4	1488				
21	7 39 2.04	+21 14 40.8	9.42690	7.91	0.93	+0.41	7 39.9
	+19.82	− 42.8	−1499				
22	39 21.86	13 58.0	41191	93	94	41	36.3
	19.47	42.0	1510				
23	39 41.33	13 16.0	39681	94	94	41	32.6
	19.11	41.3	1520				
24	40 0.44	12 34.7	38161	95	94	41	29.0
	18.76	40.6	1531				
25	40 19.20	11 54.1	36630	96	94	41	25.4
	18.40	39.8	1540				
26	7 40 37.60	+21 11 14.3	9.35090	7.98	0.95	+0.41	7 21.8
	+18.02	− 39.1	−1549				
27	40 55.62	10 35.2	33541	7.99	95	41	18.1
	17.65	38.3	1559				
28	41 13.27	9 56.9	31982	8.00	95	40	14.5
	17.28	37.5	1568				
29	41 30.55	9 19.4	30414	02	95	40	10.9
	16.90	36.7	1576				
30	41 47.45	8 42.7	28838	03	95	40	7.2
	16.51	35.9	1584				
10 1	7 42 3.96	+21 8 6.8	9.27254	8.05	0.95	+0.40	7 3.5
	+16.12	− 35.1	−1591				
2	42 20.08	7 31.7	25663	06	95	40	6 59.9
	15.72	34.2	1599				
3	42 35.80	6 57.5	24064	07	95	39	56.2
	15.32	33.3	1606				
4	42 51.12	6 24.2	22458	09	96	39	52.5
	14.92	32.3	1612				
5	43 6.04	5 51.9	20846	10	96	39	48.8
	14.51	31.4	1618				
6	7 43 20.55	+21 5 20.5	9.19228	8.11	0.96	+0.38	6 45.2
	+14.11	− 30.5	−1623				
7	43 34.66	4 50.0	17605	13	96	38	41.5
	13.69	29.5	1628				
8	43 48.35	4 20.5	15977	14	96	38	37.7
	13.27	28.6	1633				
9	44 1.62	3 51.9	14344	16	96	38	34.0
	12.85	27.6	1637				
10	44 14.47	3 24.3	12707	17	96	37	30.3
	12.43	26.6	1641				
11	7 44 26.90	+21 2 57.7	9.11066	8.19	0.96	+0.37	6 26.6
	+12.00	− 25.5	−1644				
12	44 38.90	2 32.2	09422	20	97	37	22.8
	11.57	24.5	1646				
13	44 50.47	2 7.7	07776	22	97	36	19.1
	11.13	23.5	1649				
14	45 1.60	1 44.2	06127	23	97	36	15.4
	10.69	22.4	1651				
15	45 12.29	1 21.8	04476	25	97	36	11.6
	10.26	21.4	1652				
16	7 45 22.55	+21 1 0.4	9.02824	8.26	0.98	+0.35	6 7.8
	+ 9.82	− 20.2	−1652				
17	45 32.37	0 40.2	9.01172	28	98	35	4.1
	9.38	19.2	1654				
18	45 41.75	0 21.0	8.99518	29	98	35	6 0.3
	8.93	18.1	1654				
19	45 50.68	21 0 2.9	97864	31	98	34	5 56.5
	8.48	16.9	1653				
20	45 59.16	20 59 46.0	96211	32	98	34	52.7
	8.03	15.8	1652				
21	7 46 7.19	+20 59 30.2	8.94559	8.34	0.98	+0.34	5 48.9
	+ 7.59	− 14.7	−1651				
22	46 14.78	59 15.5	92908	35	98	33	45.1
	7.13	13.5	1650				
23	46 21.91	59 2.0	91258	37	98	33	41.3
	6.67	12.4	1647				
24	46 28.58	58 49.6	89611	39	99	32	37.5
	6.21	11.2	1645				
25	46 34.79	58 38.4	87966	40	99	32	33.6
	5.75	10.0	1642				
26	7 46 40.54	+20 58 28.4	8.86324	8.42	0.99	+0.31	5 29.8
	+ 5.29	− 8.8	−1638				
27	46 45.83	58 19.6	84686	43	0.99	31	25.9
	4.83	7.6	1634				
28	46 50.66	58 12.0	83052	45	1.00	31	22.1
	4.36	6.5	1630				
29	46 55.02	58 5.5	81422	46	00	30	18.2
	3.88	5.2	1625				
30	46 58.90	58 0.3	79797	47	00	30	14.4
	3.42	4.0	1619				
31	47 2.32	57 56.3	78178	49	00	29	10.5
	+ 2.94	− 2.8	−1614				
11 1	7 47 5.26	+20 57 53.5	8.76564	8.51	1.01	+0.28	5 6.6

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	h m s s	° ′ ″ ″		″	″		h m
11 1	7 47 5.26	+20 57 53.5	8.76564	8.51	1.01	+0.28	5 6.6
	+ 2.47	− 1.5	−1607				
2	47 7.73	57 52.0	74957	52	01	28	5 2.7
	1.98	0.3	1599				
3	47 9.71	57 51.7	73358	54	01	27	4 58.8
	1.51	+ 0.9	1592				
4	47 11.22	57 52.6	71766	56	01	27	54.9
	1.03	2.2	1584				
5	47 12.25	57 54.8	70182	57	01	26	51.0
	0.56	3.4	1575				
6	7 47 12.81	+20 57 58.2	8.68607	8.59	1.01	+0.26	4 47.1
	+ 0.08	+ 4.6	−1566				
7	47 12.89	58 2.8	67041	60	01	25	43.1
	− 0.39	5.9	1557				
8	47 12.50	58 8.7	65484	62	01	25	39.2
	0.87	7.1	1547				
9	47 11.63	58 15.8	63937	63	02	24	35.2
	1.35	8.4	1536				
10	47 10.28	58 24.2	62401	65	02	24	31.3
	1.83	9.6	1524				
11	7 47 8.45	+20 58 33.8	8.60877	8.66	1.02	+0.23	4 27.3
	− 2.30	+ 10.8	−1512				
12	47 6.15	58 44.6	59365	68	02	22	23.3
	2.77	12.1	1501				
13	47 3.38	58 56.7	57864	69	03	22	19.4
	3.24	13.3	1488				
14	47 0.14	59 10.0	56376	71	03	21	15.4
	3.70	14.5	1474				
15	46 56.44	59 24.5	54902	72	03	21	11.4
	4.17	15.7	1461				
16	7 46 52.27	+20 59 40.2	8.53441	8.74	1.03	+0.20	4 7.4
	− 4.63	+ 16.9	−1446				
17	46 47.64	20 59 57.1	51995	75	04	19	4 3.4
	5.09	18.2	1431				
18	46 42.55	21 0 15.3	50564	77	04	19	3 59.4
	5.56	19.3	1416				
19	46 36.99	0 34.6	49148	78	04	18	55.3
	6.02	20.5	1401				
20	46 30.97	0 55.1	47747	80	04	17	51.3
	6.47	21.7	1384				
21	7 46 24.50	+21 1 16.8	8.46363	8.81	1.04	+0.17	3 47.2
	− 6.92	+ 22.9	−1368				
22	46 17.58	1 39.7	44995	83	04	16	43.2
	7.37	24.0	1352				
23	46 10.21	2 3.7	43643	84	04	16	39.2
	7.82	25.1	1335				
24	46 2.39	2 28.8	42308	85	04	15	35.1
	8.26	26.2	1316				
25	45 54.13	2 55.0	40992	87	05	14	31.0
	8.70	27.4	1297				
26	7 45 45.43	+21 3 22.4	8.39695	8.88	1.05	+0.14	3 26.9
	− 9.14	+ 28.5	−1279				
27	45 36.29	3 50.9	38416	89	05	13	22.9
	9.58	29.5	1259				
28	45 26.71	4 20.4	37157	90	05	12	18.8
	10.01	30.6	1239				
29	45 16.70	4 51.0	35918	92	06	11	14.7
	10.43	31.6	1219				
30	45 6.27	5 22.6	34699	93	06	11	10.6
	10.85	32.7	1199				
12 1	7 44 55.42	+21 5 55.3	8.33500	8.94	1.06	+0.10	3 6.5
	− 11.28	+ 33.7	−1177				
2	44 44.14	6 29.0	32323	96	06	09	3 2.3
	11.68	34.7	1155				
3	44 32.46	7 3.7	31168	97	06	09	2 58.2
	12.08	35.7	1133				
4	44 20.38	7 39.4	30035	8.99	06	08	54.1
	12.48	36.7	1111				
5	44 7.90	8 16.1	28924	9.00	06	07	49.9
	12.87	37.6	1087				
6	7 43 55.03	+21 8 53.7	8.27837	9.01	1.06	+0.06	2 45.8
	− 13.26	+ 38.5	−1063				
7	43 41.77	9 32.2	26774	02	07	06	41.6
	13.64	39.4	1040				
8	43 28.13	10 11.6	25734	03	07	05	37.5
	14.00	40.3	1015				
9	43 14.13	10 51.9	24719	04	07	04	33.3
	14.37	41.1	990				
10	42 59.76	11 33.0	23729	05	07	04	29.1
	14.72	41.9	965				
11	7 42 45.04	+21 12 14.9	8.22764	9.06	1.07	+0.03	2 25.0
	− 15.07	+ 42.8	− 939				
12	42 29.97	12 57.7	21825	07	07	02	20.8
	15.40	43.5	914				
13	42 14.57	13 41.2	20911	08	07	01	16.6
	15.73	44.3	887				
14	41 58.84	14 25.5	20024	09	07	+0.01	12.4
	16.05	45.0	861				
15	41 42.79	15 10.5	19163	10	08	0.00	8.2
	16.36	45.6	833				
16	7 41 26.43	+21 15 56.1	8.18330	9.11	1.08	−0.01	2 4.0
	− 16.67	+ 46.3	− 807				
17	41 9.76	16 42.4	17523	12	08	01	1 59.8
	16.97	46.9	779				
18	40 52.79	17 29.3	16744	13	08	02	55.6
	17.25	47.5	752				
19	40 35.54	18 16.8	15992	14	08	03	51.4
	17.52	48.1	723				
20	40 18.02	19 4.9	15269	14	08	04	47.1
	17.79	48.6	696				
21	7 40 0.23	+21 19 53.5	8.14573	9.15	1.08	−0.04	1 42.9
	− 18.05	+ 49.2	− 667				
22	39 42.18	20 42.7	13906	16	08	05	38.7
	18.31	49.6	638				
23	39 23.87	21 32.3	13268	17	08	06	34.4
	18.54	50.1	608				
24	39 5.33	22 22.4	12660	17	08	06	30.2
	18.77	50.5	579				
25	38 46.56	23 12.9	12081	18	08	07	26.0
	18.99	51.0	550				
26	7 38 27.57	+21 24 3.9	8.11531	9.19	1.08	−0.08	1 21.7
	− 19.20	+ 51.3	− 520				
27	38 8.37	24 55.2	11011	20	09	08	17.5
	19.40	51.6	489				
28	37 48.97	25 46.8	10522	20	09	09	13.2
	19.60	51.9	459				
29	37 29.37	26 38.7	10063	21	09	10	9.0
	19.77	52.2	429				
30	37 9.60	27 30.9	09634	22	09	11	4.7
	19.93	52.5	397				
31	36 49.67	28 23.4	09237	22	09	11	1 0.4
	− 20.08	+ 52.6	− 367				
12 32	7 36 29.59	+21 29 16.0	8.08870	9.23	1.09	−0.12	0 56.2

月 日	世界時 0h 赤經		赤緯		地心距離		視半徑	地平視差	本初子午線正中時
	h m s	s	° ′ ″	″			″	″	h m
1 1	4 33 20.30	−8.85	+21 55 5.5	−17.6	18.43194	+864	1.86	0.48	21 48.5
2	33 11.45	8.72	54 47.9	17.4	44058	893	86	48	44.4
3	33 2.73	8.58	54 30.5	17.1	44951	919	86	48	40.4
4	32 54.15	8.44	54 13.4	16.9	45870	945	85	48	36.3
5	32 45.71	8.30	53 56.5	16.6	46815	971	85	48	32.2
6	4 32 37.41	−8.15	+21 53 39.9	−16.3	18.47786	+996	1.85	0.48	21 28.1
7	32 29.26	7.99	53 23.6	16.0	48782	1022	85	48	24.1
8	32 21.27	7.83	53 7.6	15.7	49804	1047	85	48	20.0
9	32 13.44	7.67	52 51.9	15.4	50851	1072	85	48	16.0
10	32 5.77	7.51	52 36.5	15.0	51923	1095	85	48	11.9
11	4 31 58.26	−7.34	+21 52 21.5	−14.8	18.53018	+1118	1.85	0.48	21 7.9
12	31 50.92	7.18	52 6.7	14.4	54136	1143	85	48	21 3.8
13	31 43.74	7.01	51 52.3	14.1	55279	1166	85	48	20 59.8
14	31 36.73	6.83	51 38.2	13.7	56445	1187	84	47	55.7
15	31 29.90	6.64	51 24.5	13.3	57632	1209	84	47	51.7
16	4 31 23.26	−6.47	+21 51 11.2	−13.0	18.58341	+1231	1.84	0.47	20 47.6
17	31 16.79	6.28	50 58.2	12.6	60072	1253	84	47	43.6
18	31 10.51	6.08	50 45.6	12.2	61325	1273	84	47	39.6
19	31 4.43	5.89	50 33.4	11.8	62593	1293	84	47	35.5
20	30 58.54	5.69	50 21.6	11.5	63891	1312	84	47	31.5
21	4 30 52.85	−5.50	+21 50 10.1	−11.0	18.65203	+1332	1.84	0.47	20 27.5
22	30 47.35	5.31	49 59.1	10.6	66535	1351	84	47	23.5
23	30 42.04	5.12	49 48.5	10.2	67886	1369	84	47	19.4
24	30 36.92	4.91	49 38.3	9.8	69255	1387	83	47	15.4
25	30 32.01	4.71	49 28.5	9.3	70642	1404	83	47	11.4
26	4 30 27.30	−4.50	+21 49 19.2	−9.0	18.72046	+1421	1.83	0.47	20 7.4
27	30 22.80	4.30	49 10.2	8.5	73467	1437	83	47	20 3.4
28	30 18.50	4.08	49 1.7	8.1	74904	1453	83	47	19 59.4
29	30 14.42	3.88	48 53.6	7.6	76357	1469	83	47	55.4
30	30 10.54	3.66	48 46.0	7.1	77826	1483	83	47	51.4
31	30 6.88	3.44	48 38.9	6.7	79309	1498	82	47	47.4
2 1	4 30 3.44	−3.24	+21 48 32.2	−6.2	18.80807	+1512	1.82	0.47	19 43.4
2	30 0.20	3.03	48 26.0	5.8	82319	1526	82	47	39.5
3	29 57.17	2.81	48 20.2	5.3	83845	1539	82	47	35.5
4	29 54.36	2.58	48 14.9	4.9	85384	1551	82	47	31.5
5	29 51.78	2.37	48 10.0	4.4	86935	1563	81	47	27.5
6	4 29 49.41	−2.15	+21 48 5.6	−3.9	18.88498	+1576	1.81	0.47	19 23.6
7	29 47.26	1.91	48 1.7	3.4	90074	1588	81	47	19.6
8	29 45.35	1.69	47 58.3	3.0	91662	1597	81	47	15.6
9	29 43.66	1.47	47 55.3	2.4	93259	1607	81	47	11.7
10	29 42.19	1.24	47 52.9	2.0	94866	1617	81	47	7.7
11	4 29 40.95	−1.02	+21 47 50.9	−1.5	96483	+1627	1.81	0.47	19 3.8
12	29 39.93	0.80	47 49.4	1.1	98110	1635	81	47	18 59.8
13	29 39.13	0.57	47 48.3	0.5	18.99745	1643	80	46	55.9
14	29 38.56	0.35	47 47.8	−0.1	19.01388	1649	80	46	52.0
15	29 38.21	−0.11	47 47.7	+0.5	03037	1657	80	46	48.0
16	4 29 38.10	+0.11	+21 47 48.2	+0.9	19.04694	+1663	1.80	0.46	18 44.1
17	29 38.21	0.35	47 49.1	1.4	06357	1669	80	46	40.2
18	29 38.56	0.58	47 50.5	2.0	08026	1673	80	46	36.2
19	29 39.14	0.81	47 52.5	2.4	09699	1678	80	46	32.3
20	29 39.95	1.04	47 54.9	3.0	11377	1682	79	46	28.4
21	4 29 40.99	+1.26	+21 47 57.9	+3.4	19.13059	+1686	1.79	0.46	18 24.5
22	29 42.25	1.48	48 1.3	3.9	14745	1689	79	46	20.6
23	29 43.73	1.71	48 5.2	4.3	16434	1691	79	46	16.7
24	29 45.44	1.94	48 9.5	4.9	18125	1693	79	46	12.8
25	29 47.38	2.16	48 14.4	5.3	19818	1695	78	46	8.9
26	4 29 49.54	+2.39	+21 48 19.7	+5.8	19.21513	+1696	1.78	0.46	18 5.0
27	29 51.93	2.62	48 25.5	6.3	23209	1696	78	46	18 1.1
28	29 54.55	+2.83	48 31.8	+6.7	24905	+1696	78	46	17 57.2
3 1	4 29 57.38		+21 48 38.5		19.26601		1.78	0.46	17 53.3

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月 日	世界時 0h 赤經		赤緯		地心距離		視半徑	地平視差	本初子午線正中時
	h m s	s	° ′ ″	″			″	″	h m
3 1	4 29 57.38	+3.06	+21 48 38.5	+7.2	19.26601	+1694	1.78	0.46	17 53.3
2	30 0.44	3.29	48 45.7	7.7	28295	1694	78	46	49.5
3	30 3.73	3.50	48 53.4	8.2	29989	1693	78	46	45.6
4	30 7.23	3.72	49 1.6	8.6	31682	1691	78	46	41.7
5	30 10.95	3.94	49 10.2	9.1	33373	1689	77	45	37.8
6	4 30 14.89	+4.16	+21 49 19.3	+9.5	19.35062	+1685	1.77	0.45	17 34.0
7	30 19.05	4.38	49 28.8	10.0	36747	1683	77	45	30.1
8	30 23.43	4.59	49 38.8	10.5	38430	1680	77	45	26.3
9	30 28.02	4.82	49 49.3	10.9	40110	1675	77	45	22.4
10	30 32.84	5.04	50 0.2	11.4	41785	1670	77	45	18.6
11	4 30 37.88	+5.24	+21 50 11.6	+11.8	19.43455	+1665	1.77	0.45	17 14.7
12	30 43.12	5.46	50 23.4	12.2	45120	1659	76	45	10.9
13	30 48.58	5.67	50 35.6	12.7	46779	1654	76	45	7.0
14	30 54.25	5.87	50 48.3	13.1	48433	1647	76	45	17 3.2
15	31 0.12	6.08	51 1.4	13.5	50080	1639	76	45	16 59.4
16	4 31 6.20	+6.29	+21 51 14.9	+14.0	19.51719	+1630	1.76	0.45	16 55.5
17	31 12.49	6.50	51 28.9	14.3	53349	1623	75	45	51.7
18	31 18.99	6.70	51 43.2	14.8	54972	1614	75	45	47.9
19	31 25.69	6.90	51 58.0	15.2	56586	1604	75	45	44.1
20	31 32.59	7.10	52 13.2	15.6	58190	1594	75	45	40.2
21	4 31 39.69	+7.30	+21 52 28.8	+16.0	19.59784	+1583	1.75	0.45	16 36.4
22	31 46.99	7.50	52 44.8	16.4	61367	1573	75	45	32.6
23	31 54.49	7.69	53 1.2	16.8	62940	1563	75	45	28.8
24	32 2.18	7.88	53 18.0	17.2	64503	1551	75	45	25.0
25	32 10.06	8.07	53 35.2	17.5	66054	1539	74	45	21.2
26	4 32 18.13	+8.25	+21 53 52.7	+17.9	19.67593	+1526	1.74	0.45	16 17.4
27	32 26.38	8.44	54 10.6	18.2	69119	1515	74	45	13.6
28	32 34.82	8.63	54 28.8	18.6	70634	1502	74	45	9.8
29	32 43.45	8.81	54 47.4	19.0	72136	1489	74	45	6.1
30	32 52.26	8.99	55 6.4	19.2	73625	1476	74	45	16 2.3
31	33 1.25	9.16	55 25.6	19.6	75101	1461	74	45	15 58.5
4 1	4 33 10.41	+9.34	+21 55 45.2	+20.0	19.76562	+1446	1.74	0.45	15 54.7
2	33 19.75	9.52	56 5.2	20.2	78008	1432	74	45	50.9
3	33 29.27	9.68	56 25.4	20.5	79440	1418	74	45	47.2
4	33 38.95	9.85	56 45.9	20.9	80858	1402	73	44	43.4
5	33 48.80	10.02	57 6.8	21.1	82260	1385	73	44	39.6
6	4 33 58.82	+10.18	+21 57 27.9	+21.5	19.83645	+1370	1.73	0.44	15 35.9
7	34 9.00	10.35	57 49.4	21.7	85015	1353	73	44	32.1
8	34 19.35	10.52	58 11.1	22.0	86368	1336	73	44	28.4
9	34 29.87	10.67	58 33.1	22.3	87704	1319	73	44	24.6
10	34 40.54	10.82	58 55.4	22.6	89023	1301	73	44	20.8
11	4 34 51.36	+10.98	+21 59 18.0	+22.8	19.90324	+1283	1.72	0.44	15 17.1
12	35 2.34	11.13	21 59 40.8	23.1	91607	1265	72	44	13.3
13	35 13.47	11.28	22 0 3.9	23.3	92872	1246	72	44	9.6
14	35 24.75	11.42	0 27.2	23.6	94118	1227	72	44	5.9
15	35 36.17	11.56	0 50.8	23.8	95345	1206	72	44	15 2.1
16	4 35 47.73	+11.70	+22 1 14.6	+24.0	19.96551	+1187	1.71	0.44	14 58.4
17	35 59.43	11.84	1 38.6	24.3	97738	1167	71	44	54.6
18	36 11.27	11.98	2 2.9	24.5	19.98905	1146	71	44	50.9
19	36 23.25	12.11	2 27.4	24.7	20.00051	1124	71	44	47.2
20	36 35.36	12.23	2 52.1	24.8	01175	1104	71	44	43.4
21	4 36 47.59	+12.37	+22 3 16.9	+25.1	20.02279	+1082	1.71	0.44	14 39.7
22	36 59.96	12.49	3 42.0	25.3	03361	1061	71	44	36.0
23	37 12.45	12.61	4 7.3	25.5	04422	1040	71	44	32.3
24	37 25.06	12.73	4 32.8	25.6	05462	1017	71	44	28.5
25	37 37.79	12.84	4 58.4	25.8	06479	996	71	44	24.8
26	4 37 50.63	+12.95	+22 5 24.2	+25.9	20.07475	+973	1.71	0.44	14 21.1
27	38 3.58	13.07	5 50.1	26.1	08448	952	71	44	17.4
28	38 16.65	13.17	6 16.2	26.2	09400	930	71	44	13.7
29	38 29.82	13.28	6 42.4	26.4	10330	907	71	44	10.0
30	38 43.10	+13.38	7 8.8	+26.4	11237	+883	71	44	6.3
1	4 38 56.48		+22 7 35.2		20.12120		1.71	0.44	14 2.5

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月 日	世界時 0h 赤經		赤緯		地心距離		視半徑	地平視差	初線時 本子午中正
	h m s	s	° ′ ″	″			″	″	h m
5 1	4 38 56.48	+13.48	+22 7 35.2	+ 26.6	20.12120	+ 861	1.71	0.44	14 2.5
2	39 9.96	13.58	8 1.8	26.7	12981	838	71	44	13 58.8
3	39 23.54	13.67	8 28.5	26.8	13819	814	71	44	55.1
4	39 37.21	13.76	8 55.3	26.9	14633	789	70	44	51.4
5	39 50.97	13.85	9 22.2	26.9	15422	766	70	44	47.7
6	4 40 4.82	+13.94	+22 9 49.1	+ 27.1	20.16188	+ 741	1.70	0.44	13 44.0
7	40 18.76	14.03	10 16.2	27.2	16929	717	70	44	40.3
8	40 32.79	14.11	10 43.4	27.2	17646	692	70	44	36.6
9	40 46.90	14.18	11 10.6	27.3	18338	666	70	44	32.9
10	41 1.08	14.26	11 37.9	27.4	19004	641	70	44	29.2
11	4 41 15.34	+14.33	+22 12 5.3	+ 27.4	20.19645	+ 616	1.70	0.44	13 25.5
12	41 29.67	14.41	12 32.7	27.5	20261	591	70	44	21.8
13	41 44.08	14.47	13 0.2	27.5	20852	566	70	44	18.2
14	41 58.55	14.53	13 27.7	27.6	21418	540	69	43	14.5
15	42 13.08	14.59	13 55.3	27.6	21958	514	69	43	10.8
16	4 42 27.67	+14.65	+22 14 22.9	+ 27.6	20.22472	+ 489	1.69	0.43	13 7.1
17	42 42.32	14.71	14 50.5	27.6	22961	463	69	43	13 3.4
18	42 57.03	14.76	15 18.1	27.6	23424	437	69	43	12 59.7
19	43 11.79	14.80	15 45.7	27.6	23861	411	69	43	56.0
20	43 26.59	14.85	16 13.3	27.6	24272	386	69	43	52.3
21	4 43 41.44	+14.89	+22 16 40.9	+ 27.6	20.24658	+ 359	1.69	0.43	12 48.6
22	43 56.33	14.93	17 8.5	27.6	25017	333	69	43	45.0
23	44 11.26	14.97	17 36.1	27.6	25350	307	69	43	41.3
24	44 26.23	15.00	18 3.7	27.5	25657	280	69	43	37.6
25	44 41.23	15.03	18 31.2	27.5	25937	254	69	43	33.9
26	4 44 56.26	+15.06	+22 18 58.7	+ 27.5	20.26191	+ 227	1.69	0.43	12 30.2
27	45 11.32	15.09	19 26.2	27.4	26418	201	69	43	26.5
28	45 26.41	15.11	19 53.6	27.4	26619	174	69	43	22.9
29	45 41.52	15.13	20 21.0	27.4	26793	148	69	43	19.2
30	45 56.65	15.15	20 48.3	27.3	26941	121	69	43	15.5
31	46 11.80	15.16	21 15.5	27.2	27062	94	69	43	11.8
6 1	4 46 26.96	+15.18	+22 21 42.7	+ 27.2	20.27156	+ 68	1.69	0.43	12 8.1
2	46 42.14	15.19	22 9.8	27.1	27224	41	69	43	4.5
3	46 57.33	15.18	22 36.8	27.0	27265	15	69	43	12 0.8
4	47 12.51	15.19	23 3.8	27.0	27280	− 12	69	43	11 57.1
5	47 27.70	15.20	23 30.7	26.9	27268	39	69	43	53.4
6	4 47 42.90	+15.19	+22 23 57.5	+ 26.8	20.27229	− 65	1.69	0.43	11 49.7
7	47 58.09	15.19	24 24.2	26.7	27164	91	69	43	46.1
8	48 13.28	15.18	24 50.8	26.6	27073	118	69	43	42.4
9	48 28.46	15.17	25 17.3	26.5	26955	144	69	43	38.7
10	48 43.63	15.16	25 43.7	26.4	26811	171	69	43	35.0
11	4 48 58.79	+15.14	+22 26 10.0	+ 26.3	20.26640	− 198	1.69	0.43	11 31.3
12	49 13.93	15.12	26 36.2	26.2	26442	224	69	43	27.7
13	49 29.05	15.09	27 2.3	26.1	26218	251	69	43	24.0
14	49 44.14	15.07	27 28.2	25.9	25967	277	69	43	20.3
15	49 59.21	15.03	27 54.0	25.8	25690	303	69	43	16.6
16	4 50 14.24	+15.01	+22 28 19.7	+ 25.7	20.25387	− 330	1.69	0.43	11 12.9
17	50 29.25	14.97	28 45.2	25.5	25057	357	69	43	9.2
18	50 44.22	14.92	29 10.5	25.3	24700	383	69	43	5.6
19	50 59.14	14.88	29 35.7	25.2	24317	409	69	43	11 1.9
20	51 14.02	14.84	30 0.7	25.0	23908	435	69	43	10 58.2
21	4 51 28.86	+14.80	+22 30 25.5	+ 24.8	20.23473	− 461	1.69	0.43	10 54.5
22	51 43.66	14.75	30 50.2	24.7	23012	487	70	44	50.8
23	51 58.41	14.69	31 14.7	24.5	22525	511	70	44	47.1
24	52 13.10	14.64	31 39.1	24.4	22014	537	70	44	43.4
25	52 27.74	14.58	32 3.3	24.2	21477	561	70	44	39.8
26	4 52 42.32	+14.53	+22 32 27.3	+ 24.0	20.20916	− 587	1.70	0.44	10 36.1
27	52 56.85	14.47	32 51.1	23.8	20329	611	70	44	32.4
28	53 11.32	14.39	33 14.8	23.7	19718	635	70	44	28.7
29	53 25.71	14.33	33 38.3	23.5	19083	660	70	44	25.0
30	53 40.04	+14.27	34 1.5	+ 23.2	18423	− 684	70	44	21.3
7 1	4 53 54.31		+22 34 24.6	23.1	20.17739		1.70	0.44	10 17.6

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月 日	世界時 0h 赤經		赤緯		地心距離		視半徑	地平視差	初線時 本子午中正
	h m s	s	° ′ ″	″			″	″	h m
7 1	4 53 54.31	+14.19	+22 34 24.6	+ 22.9	20.17739		1.70	0.44	10 17.6
2	54 8.50	14.12	34 47.5	22.7	17031	− 708	70	44	13.9
3	54 22.62	14.03	35 10.2	22.5	16298	733	70	44	10.2
4	54 36.65	13.95	35 32.7	22.2	15541	757	70	44	6.5
5	54 50.60	13.87	35 54.9	22.1	14761	780	70	44	10 2.8
6	4 55 4.47	+13.78	+22 36 17.0	+ 21.9	20.13956	805	1.70	0.44	9 59.1
7	55 18.25	13.69	36 38.9	21.7	13127	− 829	70	44	55.4
8	55 31.94	13.60	37 0.6	21.4	12274	853	70	44	51.7
9	55 45.54	13.49	37 22.0	21.2	11398	876	70	44	48.0
10	55 59.03	13.40	37 43.2	21.0	10498	900	70	44	44.3
11	4 56 12.43	+13.30	+22 38 4.2	+ 20.8	20.09576	922	1.70	0.44	9 40.6
12	56 25.73	13.20	38 25.0	20.6	08631	− 945	71	44	36.8
13	56 38.93	13.09	38 45.6	20.3	07663	968	71	44	33.1
14	56 52.02	12.98	39 5.9	20.1	06674	989	71	44	29.4
15	57 5.00	12.87	39 26.0	19.9	05663	1011	71	44	25.7
16	4 57 17.87	+12.75	+22 39 45.9	+ 19.6	20.04631	1032	1.71	0.44	9 22.0
17	57 30.62	12.63	40 5.5	19.4	03577	− 1054	71	44	18.3
18	57 43.25	12.51	40 24.9	19.1	02503	1074	71	44	14.5
19	57 55.76	12.39	40 44.0	18.9	01409	1094	71	44	10.8
20	58 8.15	12.26	41 2.9	18.6	20.00294	1115	71	44	7.1
21	4 58 20.41	+12.14	+22 41 21.5	+ 18.4	19.99160	1134	1.71	0.44	9 3.4
22	58 32.55	12.01	41 39.9	18.2	98005	− 1155	72	44	8 59.6
23	58 44.56	11.88	41 58.1	17.9	96831	1174	72	44	55.9
24	58 56.44	11.74	42 16.0	17.7	95637	1194	72	44	52.2
25	59 8.18	11.60	42 33.7	17.4	94425	1212	72	44	48.4
26	4 59 19.78	+11.47	+22 42 51.1	+ 17.1	19.93193	1232	1.72	0.44	8 44.7
27	59 31.25	11.33	43 8.2	16.9	91943	− 1250	72	44	40.9
28	59 42.58	11.18	43 25.1	16.6	90675	1268	72	44	37.2
29	4 59 53.76	11.03	43 41.7	16.4	89389	1286	72	44	33.4
30	5 0 4.79	10.88	43 58.1	16.1	88085	1304	72	44	29.7
31	0 15.67	10.73	44 14.2	15.9	86764	1321	72	44	25.9
8 1	5 0 26.40	10.58	+22 44 30.1	+ 15.6	19.85425	1339	1.73	0.44	8 22.2
2	0 36.98	10.43	44 45.7	15.3	84069	− 1356	73	44	18.4
3	0 47.41	10.26	45 1.0	15.1	82697	1372	73	44	14.7
4	0 57.67	10.11	45 16.1	14.8	81310	1387	73	44	10.9
5	1 7.78	9.94	45 30.9	14.6	79906	1404	73	44	7.1
6	5 1 17.72	+9.77	+22 45 45.5	+ 14.3	19.78486	1420	1.73	0.44	8 3.4
7	1 27.49	9.60	45 59.8	14.0	77051	− 1435	73	44	7 59.6
8	1 37.09	9.44	46 13.8	13.7	75601	1450	73	44	55.8
9	1 46.53	9.26	46 27.5	13.4	74137	1464	74	44	52.1
10	1 55.79	9.09	46 40.9	13.2	72659	1478	74	44	48.3
11	5 2 4.88	+8.92	+22 46 54.1	+ 12.9	19.71167	1492	1.74	0.45	7 44.5
12	2 13.80	8.74	47 7.0	12.6	69661	− 1506	74	45	40.7
13	2 22.54	8.55	47 19.6	12.4	68143	1518	74	45	36.9
14	2 31.09	8.38	47 32.0	12.0	66614	1529	75	45	33.1
15	2 39.47	8.19	47 44.0	11.8	65072	1542	75	45	29.3
16	5 2 47.66	+8.00	+22 47 55.8	+ 11.5	19.63518	1554	1.75	0.45	7 25.5
17	2 55.66	7.81	48 7.3	11.3	61954	− 1564	75	45	21.7
18	3 3.47	7.63	48 18.6	10.9	60379	1575	75	45	17.9
19	3 11.10	7.43	48 29.5	10.7	58795	1584	75	45	14.1
20	3 18.53	7.24	48 40.2	10.4	57200	1595	75	45	10.3
21	5 3 25.77	+7.05	+22 48 50.6	+ 10.1	19.55595	1605	1.76	0.45	7 6.5
22	3 32.82	6.85	49 0.7	9.8	53981	− 1614	76	45	7 2.7
23	3 39.67	6.65	49 10.5	9.6	52358	1623	76	45	6 58.9
24	3 46.32	6.45	49 20.1	9.2	50727	1631	76	45	55.0
25	3 52.77	6.25	49 29.3	9.0	49088	1639	76	45	51.2
26	5 3 59.02	+6.05	+22 49 38.3	+ 8.7	19.47441	1647	1.76	0.45	6 47.4
27	4 5.07	5.85	49 47.0	8.4	45786	− 1655	76	45	43.6
28	4 10.92	5.64	49 55.4	8.2	44125	1661	76	45	39.7
29	4 16.56	5.43	50 3.6	7.8	42458	1667	77	45	35.9
30	4 21.99	5.23	50 11.4	7.6	40785	1673	77	45	32.0
31	4 27.22	5.02	50 19.0	7.3	39105	1680 − 1685	77	46	28.2
9 1	5 4 32.24		+22 50 26.3		19.37420		1.77	0.46	6 24.3

12 月 7 日圖ニ於ケル等級……5.87

月 日	世界時 0h 赤經		赤緯		地心距離		視半徑	地平視差	初線時 本子午正中時
	h m s	s	° ′ ″	″			″	″	h m
9 1	5 4 32.24		+22 50 26.3		19.37420		1.77	0.46	6 24.3
		+4.81		+ 7.0		−1688			
2	4 37.05		50 33.3		35732		77	46	20.5
		4.59		6.6		1692			
3	4 41.64		50 39.9		34040		78	46	16.6
		4.38		6.4		1696			
4	4 46.02		50 46.3		32344		78	46	12.8
		4.17		6.1		1700			
5	4 50.19		50 52.4		30644		78	46	8.9
		3.94		5.8		1703			
6	5 4 54.13		+22 50 58.2		19.28941		1.78	0.46	6 5.0
		+3.72		+ 5.5		−1704			
7	4 57.85		51 3.7		27237		78	46	6 1.2
		3.50		5.3		1705			
8	5 1.35		51 9.0		25532		78	46	5 57.3
		3.28		4.9		1707			
9	5 4.63		51 13.9		23825		78	46	53.4
		3.07		4.6		1708			
10	5 7.70		51 18.5		22117		79	46	49.5
		2.85		4.3		1708			
11	5 5 10.55		+22 51 22.8		19.20409		1.79	0.46	5 45.7
		+2.63		+ 4.1		−1707			
12	5 13.18		51 26.9		18702		79	46	41.8
		2.40		3.7		1706			
13	5 15.58		51 30.6		16996		79	46	37.9
		2.19		3.5		1705			
14	5 17.77		51 34.1		15291		79	46	34.0
		1.96		3.1		1704			
15	5 19.73		51 37.2		13587		79	46	30.1
		1.73		2.9		1701			
16	5 5 21.46		+22 51 40.1		19.11886		1.79	0.46	5 26.2
		+1.51		+ 2.6		−1698			
17	5 22.97		51 42.7		10188		79	46	22.3
		1.28		2.3		1694			
18	5 24.25		51 45.0		08494		80	46	18.3
		1.06		2.0		1691			
19	5 25.31		51 47.0		06803		80	46	14.4
		0.84		1.7		1687			
20	5 26.15		51 48.7		05116		80	46	10.5
		0.62		1.4		1683			
21	5 5 26.77		+22 51 50.1		19.03433		1.80	0.46	5 6.6
		+0.39		+ 1.2		−1677			
22	5 27.16		51 51.3		01756		80	46	5 2.7
		+0.17		0.8		1671			
23	5 27.33		51 52.1		19.00085		81	46	4 58.7
		−0.05		0.6		1665			
24	5 27.28		51 52.7		18.98420		81	46	54.8
		0.28		+ 0.2		1659			
25	5 27.00		51 52.9		96761		81	46	50.9
		0.51		0.0		1652			
26	5 5 26.49		+22 51 52.9		18.95109		1.81	0.46	4 46.9
		−0.73		− 0.3		−1644			
27	5 25.76		51 52.6		93465		81	46	43.0
		0.95		0.6		1636			
28	5 24.81		51 52.0		91829		81	46	39.0
		1.17		0.9		1628			
29	5 23.64		51 51.1		90201		81	46	35.1
		1.40		1.2		1619			
30	5 22.24		51 49.9		88582		82	47	31.1
		1.61		1.5		1610			
10 1	5 5 20.63		+22 51 48.4		18.86972		1.82	0.47	4 27.2
		−1.84		− 1.7		−1600			
2	5 18.79		51 46.7		85372		82	47	23.2
		2.05		2.1		1589			
3	5 16.74		51 44.6		83783		82	47	19.2
		2.28		2.3		1578			
4	5 14.46		51 42.3		82205		82	47	15.3
		2.50		2.7		1567			
5	5 11.96		51 39.6		80638		82	47	11.3
		2.73		3.0		1555			
6	5 5 9.23		+22 51 36.6		18.79083		1.82	0.47	4 7.3
		−2.95		− 3.2		−1542			
7	5 6.28		51 33.4		77541		82	47	4 3.3
		3.16		3.6		1529			
8	5 3.12		51 29.8		76012		83	47	3 59.3
		3.38		3.8		1516			
9	4 59.74		51 26.0		74496		83	47	55.4
		3.59		4.2		1502			
10	4 56.15		51 21.8		72994		83	47	51.4
		3.80		4.4		1488			
11	5 4 52.35		+22 51 17.4		18.71506		1.83	0.47	3 47.4
		−4.00		− 4.7		−1472			
12	4 48.35		51 12.7		70034		83	47	43.4
		4.21		5.0		1456			
13	4 44.14		51 7.7		68578		84	47	39.4
		4.42		5.3		1440			
14	4 39.72		51 2.4		67138		84	47	35.4
		4.63		5.5		1425			
15	4 35.09		50 56.9		65713		84	47	31.4
		4.84		5.8		1407			
16	5 4 30.25		+22 50 51.1		18.64306		1.84	0.47	3 27.3
		−5.03		− 6.1		−1389			
17	4 25.22		50 45.0		62917		84	47	23.3
		5.23		6.3		1370			
18	4 19.99		50 38.7		61547		84	47	19.3
		5.43		6.6		1353			
19	4 14.56		50 32.1		60194		84	47	15.3
		5.63		6.8		1335			
20	4 8.93		50 25.3		58859		85	48	11.3
		5.82		7.1		1316			
21	5 4 3.11		+22 50 18.2		18.57543		1.85	0.48	3 7.2
		−6.00		− 7.4		−1296			
22	3 57.11		50 10.8		56247		85	48	3 3.2
		6.19		7.7		1276			
23	3 50.92		50 3.1		54971		85	48	2 59.2
		6.38		7.9		1256			
24	3 44.54		49 55.2		53715		85	48	55.1
		6.56		8.2		1237			
25	3 37.98		49 47.0		52478		85	48	51.1
		6.75		8.5		1216			
26	5 3 31.23		+22 49 38.5		18.51262		1.85	0.48	2 47.0
		−6.92		− 8.7		−1195			
27	3 24.31		49 29.8		50067		85	48	43.0
		7.10		9.0		1172			
28	3 17.21		49 20.8		48895		85	48	38.9
		7.27		9.2		1151			
29	3 9.94		49 11.6		47744		85	48	34.9
		7.45		9.5		1128			
30	3 2.49		49 2.1		46616		86	48	30.8
		7.61		9.7		1106			
31	2 54.88		48 52.4		18.45510		86	48	26.8
		−7.76		−10.0		−1081			
11 1	5 2 47.12		+22 48 42.4		18.44429		1.86	0.48	2 22.7

12 月 7 日儘ニ於ケル等級……5.87

月 日	世界時 0h 赤經		赤緯		地心距離		視半徑	地平視差	初線時 本子午正中時
	h m s	s	° ′ ″	″			″	″	h m
11 1	5 2 47.12		+22 48 42.4		18.44429		1.86	0.48	2 22.7
		−7.93		−10.2		−1057			
2	2 39.19		48 32.2		43372		86	48	18.7
		8.08		10.4		1033			
3	2 31.11		48 21.8		42339		86	48	14.6
		8.24		10.7		1009			
4	2 22.87		48 11.1		41330		86	48	10.5
		8.40		10.9		983			
5	2 14.47		48 0.2		40347		86	48	6.5
		8.55		11.2		957			
6	5 2 5.92		+22 47 49.0		18.39390		1.86	0.48	2 2.4
		−8.69		− 11.4		− 931			
7	1 57.23		47 37.6		38459		86	48	1 58.3
		8.83		11.6		905			
8	1 48.40		47 26.0		37554		86	48	54.2
		8.96		11.8		879			
9	1 39.44		47 14.2		36675		87	48	50.1
		9.09		12.1		852			
10	1 30.35		47 2.1		35823		87	48	46.1
		9.22		12.2		825			
11	5 1 21.13		+22 46 49.9		18.34998		1.87	0.48	1 42.0
		−9.33		− 12.5		− 798			
12	1 11.80		46 37.4		34200		87	48	37.9
		9.46		12.6		770			
13	1 2.34		46 24.8		33430		87	48	33.8
		9.57		12.9		743			
14	0 52.77		46 11.9		32687		87	48	29.7
		9.68		13.1		714			
15	0 43.09		45 58.8		31973		87	48	25.6
		9.79		13.2		686			
16	5 0 33.30		+22 45 45.6		18.31287		1.87	0.48	1 21.5
		−9.89		− 13.5		− 657			
17	0 23.41		45 32.1		30630		87	48	17.4
		9.99		13.6		629			
18	0 13.42		45 18.5		30001		87	48	13.3
		10.09		13.8		600			
19	5 0 3.33		45 4.7		29401		88	48	9.2
		10.18		14.0		570			
20	4 59 53.15		44 50.7		28831		88	48	5.1
		10.25		14.1		541			
21	4 59 42.90		+22 44 36.6		18.28290		1.88	0.48	1 1.0
		−10.33		− 14.3		− 511			
22	59 32.57		44 22.3		27779		88	48	0 56.9
		10.41		14.5		481			
23	59 22.16		44 7.8		27298		88	48	52.8
		10.49		14.6		452			
24	59 11.67		43 53.2		26846		88	48	48.7
		10.56		14.8		422			
25	59 1.11		43 38.4		26424		88	48	44.6
		10.62		14.9		391			
26	4 58 50.49		+22 43 23.5		18.26033		1.88	0.48	0 40.5
		−10.68		− 15.0		− 361			
27	58 39.81		43 8.5		25672		88	48	36.4
		10.73		15.1		330			
28	58 29.08		42 53.4		25342		88	48	32.3
		10.79		15.3		299			
29	58 18.29		42 38.1		25043		88	48	28.2
		10.83		15.4		268			
30	58 7.46		42 22.7		24775		88	48	24.1
		10.86		15.4		238			
12 1	4 57 56.60		+22 42 7.3		18.24537		1.88	0.48	0 19.9
		−10.89		− 15.6		− 206			
2	57 45.71		41 51.7		24331		88	48	15.8
		10.93		15.6		174			
3	57 34.78		41 36.1		24157		88	48	11.7
		10.95		15.8		143			
4	57 23.83		41 20.3		24014		88	48	7.6
		10.97		15.8		112			
5	57 12.86		41 4.5		23902		88	48	3.5
		10.98		15.9		80			59.4
6	4 57 1.88		+22 40 48.6		18.23822		1.88	0.48	23 55.3
		−10.99		− 15.9		− 49			
7	56 50.89		40 32.7		23773		88	48	51.2
		10.99		16.0		− 17			
8	56 39.90		40 16.7		23755		88	48	47.0
		11.00		16.1		+ 14			
9	56 28.90		40 0.6		23770		88	48	42.9
		10.99		16.1		46			
10	56 17.91		39 44.5		23816		88	48	38.8
		10.98		16.1		78			
11	4 56 6.93		+22 39 28.4		18.23894		1.88	0.48	23 34.7
		−10.96		− 16.1		+ 108			
12	55 55.97		39 12.3		24002		88	48	30.6
		10.94		16.1		140			
13	55 45.03		38 56.2		24142		88	48	26.5
		10.92		16.2		171			
14	55 34.11		38 40.0		24313		88	48	22.4
		10.89		16.2		202			
15	55 23.22		38 23.8		24515		88	48	18.3
		10.84		16.1		233			
16	4 55 12.38		+22 38 7.7		18.24748		1.88	0.48	23 14.1
		−10.80		− 16.1		+ 264			
17	55 1.58		37 51.6		25012		88	48	10.0
		10.76		16.1		295			
18	54 50.82		37 35.5		25307		88	48	5.9
		10.71		16.1		325			
19	54 40.11		37 19.4		25632		88	48	23 1.8
		10.66		16.1		356			
20	54 29.45		37 3.3		25988		88	48	22 57.7
		10.59		16.0		387			
21	4 54 18.86		+22 36 47.3		18.26375		1.88	0.48	22 53.6
		−10.53		− 15.9		+ 417			
22	54 8.33		36 31.4		26792		88	48	49.5
		10.46		15.9		447			
23	53 57.87		36 15.5		27239		88	48	45.4
		10.40		15.8		478			
24	53 47.47		35 59.7		27717		88	48	41.3
		10.32		15.8		508			
25	53 37.15		35 43.9		28225		88	48	37.2
		10.23		15.7		537			
26	4 53 26.92		+22 35 28.2		18.28762		1.88	0.48	22 33.1
		−10.13		− 15.5		+ 566			
27	53 16.79		35 12.7		29328		88	48	29.0
		10.05		15.5		596			
28	53 6.74		34 57.2		29924		88	48	24.9
		9.96		15.4		625			
29	52 56.78		34 41.8		30549		88	48	20.8
		9.86		15.2		655			
30	52 46.92		34 26.6		31204		87	48	16.7
		9.75		15.1		683			
31	52 37.17		34 11.5		31887		87	48	12.6
		−9.64		− 15.0		+ 712			
12 32	4 52 27.53		+22 33 56.5		18.32599		1.87	0.48	22 8.5

12 月 7 日儘ニ於ケル等級……5.87

月	日	世界時 0h 赤經		赤緯		地心距離		視半徑	地平視差	本子午中正 初線時	
		h m s	s	° ′ ″	″			″	″	h	m
1	1	12 25 50.72	+ 0.87	− 1 14 18.3	− 2.0	30.19048	− 1731	1.21	0.29	5	43.8
	2	25 51.59	0.75	14 20.3	1.2	17317	1728	21	29		39.9
	3	25 52.34	0.62	14 21.5	0.4	15589	1725	22	29		36.0
	4	25 52.96	0.50	14 21.9	0.4	13864	1720	22	29		32.0
	5	25 53.46	0.37	14 21.5	1.3	12144	1717	22	29		28.1
	6	12 25 53.83	+ 0.24	− 1 14 20.2	2.0	30.10427	− 1712	1.22	0.29	5	24.2
	7	25 54.07	+ 0.12	14 18.2	2.9	08715	1708	22	29		20.3
	8	25 54.19	− 0.01	14 15.3	3.7	07007	1703	22	29		16.3
	9	25 54.18	0.14	14 11.6	4.5	05304	1697	22	29		12.4
	10	25 54.04	0.27	14 7.1	5.3	03607	1689	22	29		8.5
	11	12 25 53.77	− 0.39	− 1 14 1.8	6.1	30.01918	− 1683	1.22	0.29	5	4.5
	12	25 53.38	0.52	13 55.7	6.9	30.00235	1676	22	29	5	0.6
	13	25 52.86	0.64	13 48.8	7.7	29.98559	1667	22	29	4	56.6
	14	25 52.22	0.76	13 41.1	8.5	96892	1658	22	29		52.7
	15	25 51.46	0.89	13 32.6	9.2	95234	1647	22	29		48.8
	16	12 25 50.57	− 1.01	− 1 13 23.4	10.1	29.93587	− 1638	1.22	0.29	4	44.8
	17	25 49.56	1.13	13 13.3	10.9	91949	1628	22	29		40.9
	18	25 48.43	1.26	13 2.4	11.7	90321	1616	22	29		36.9
	19	25 47.17	1.39	12 50.7	12.4	88705	1603	22	29		33.0
	20	25 45.78	1.50	12 38.3	13.2	87102	1591	22	29		29.0
	21	12 25 44.28	− 1.63	− 1 12 25.1	14.0	29.85511	− 1578	1.22	0.29	4	25.0
	22	25 42.65	1.75	12 11.1	14.7	83933	1566	22	29		21.1
	23	25 40.90	1.86	11 56.4	15.5	82367	1552	23	30		17.1
	24	25 39.04	1.98	11 40.9	16.2	80815	1538	23	30		13.2
	25	25 37.06	2.10	11 24.7	16.9	79277	1523	23	30		9.2
	26	12 25 34.96	− 2.21	− 1 11 7.8	17.6	29.77754	− 1508	1.23	0.30	4	5.2
	27	25 32.75	2.33	10 50.2	18.3	76246	1493	23	30	4	1.3
	28	25 30.42	2.44	10 31.9	19.1	74753	1477	23	30	3	57.3
	29	25 27.98	2.56	10 12.8	19.7	73276	1461	23	30		53.3
	30	25 25.42	2.66	9 53.1	20.4	71815	1443	23	30		49.3
	31	25 22.76	2.78	9 32.7	21.1	70372	1427	23	30		45.4
2	1	12 25 19.98	− 2.88	− 1 9 11.6	21.8	29.68945	− 1409	1.23	0.30	3	41.4
	2	25 17.10	2.99	8 49.8	22.4	67536	1391	23	30		37.4
	3	25 14.11	3.10	8 27.4	23.1	66145	1372	23	30		33.4
	4	25 11.01	3.20	8 4.3	23.7	64773	1352	23	30		29.4
	5	25 7.81	3.31	7 40.6	24.4	63421	1334	23	30		25.5
	6	12 25 4.50	− 3.41	− 1 7 16.2	25.0	29.62087	− 1314	1.23	0.30	3	21.5
	7	25 1.09	3.52	6 51.2	25.7	60773	1293	23	30		17.5
	8	24 57.57	3.61	6 25.5	26.2	59480	1272	23	30		13.5
	9	24 53.96	3.71	5 59.3	26.9	58208	1251	23	30		9.5
	10	24 50.25	3.81	5 32.4	27.4	56957	1229	23	30		5.5
	11	12 24 46.44	− 3.91	− 1 5 5.0	28.1	29.55728	− 1208	1.23	0.30	3	1.5
	12	24 42.53	4.00	4 36.9	28.6	54520	1185	24	30	2	57.5
	13	24 38.53	4.09	4 8.3	29.1	53335	1162	24	30		53.5
	14	24 34.44	4.17	3 39.2	29.7	52173	1139	24	30		49.5
	15	24 30.27	4.27	3 9.5	30.2	51034	1115	24	30		45.5
	16	12 24 26.00	− 4.36	− 1 2 39.3	30.7	29.49919	− 1092	1.24	0.30	2	41.5
	17	24 21.64	4.45	2 8.6	31.2	48827	1068	24	30		37.5
	18	24 17.19	4.52	1 37.4	31.8	47759	1042	24	30		33.5
	19	24 12.67	4.61	1 5.6	32.2	46717	1018	24	30		29.5
	20	24 8.06	4.68	0 33.4	32.6	45699	992	24	30		25.5
	21	12 24 3.38	− 4.77	− 1 0 0.8	33.2	29.44707	− 968	1.24	0.30	2	21.5
	22	23 58.61	4.84	0 59 27.6	33.6	43739	942	24	30		17.5
	23	23 53.77	4.90	58 54.0	33.9	42797	915	24	30		13.5
	24	23 48.87	4.98	58 20.1	34.4	41882	889	24	30		9.4
	25	23 43.89	5.04	57 45.7	34.7	40993	863	24	30		5.4
	26	12 23 38.85	− 5.12	− 0 57 11.0	35.2	29.40130	− 837	1.24	0.30	2	1.4
	27	23 33.73	5.18	56 35.8	35.5	39293	810	24	30	1	57.4
	28	23 28.55	− 5.24	56 0.3	+ 35.9	38483	− 782	24	30		53.4
3	1	12 23 23.31		− 0 55 24.4		29.37701		1.24	0.30	1	49.4

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月	日	世界時 0h 赤經		赤緯		地心距離		視半徑	地平視差	本子午中正 初線時	
		h m s	s	° ′ ″	″			″	″	h	m
3	1	12 23 23.31	− 5.29	− 0 55 24.4	+ 36.2	29.37701	− 755	1.24	0.30	1	49.4
	2	23 18.02	5.36	54 48.2	36.5	36946	727	24	30		45.3
	3	23 12.66	5.42	54 11.7	36.9	36219	700	24	30		41.3
	4	23 7.24	5.47	53 34.8	37.2	35519	671	25	30		37.3
	5	23 1.77	5.52	52 57.6	37.4	34848	642	25	30		33.3
	6	12 22 56.25	− 5.56	− 0 52 20.2	37.7	29.34206	− 614	1.25	0.30	1	29.2
	7	22 50.69	5.62	51 42.5	37.9	33592	584	25	30		25.2
	8	22 45.07	5.66	51 4.6	38.2	33008	555	25	30		21.2
	9	22 39.41	5.71	50 26.4	38.4	32453	525	25	30		17.2
	10	22 33.70	5.75	49 48.0	38.7	31928	496	25	30		13.2
	11	12 22 27.95	− 5.78	− 0 49 9.3	38.8	29.31432	− 465	1.25	0.30	1	9.1
	12	22 22.17	5.83	48 30.5	38.9	30967	436	25	30		5.1
	13	22 16.34	5.86	47 51.6	39.2	30531	406	25	30	1	1.1
	14	22 10.48	5.89	47 12.4	39.3	30125	376	25	30	0	57.0
	15	22 4.59	5.92	46 33.1	39.4	29749	345	25	30		53.0
	16	12 21 58.67	− 5.94	− 0 45 53.7	39.6	29.29404	− 316	1.25	0.30	0	49.0
	17	21 52.73	5.96	45 14.1	39.6	29088	285	25	30		45.0
	18	21 46.77	5.99	44 34.5	39.7	28803	256	25	30		40.9
	19	21 40.78	6.01	43 54.8	39.8	28547	225	25	30		36.9
	20	21 34.77	6.02	43 15.0	39.8	28322	196	25	30		32.9
	21	12 21 28.75	− 6.03	− 0 42 35.2	39.9	29.28126	− 165	1.25	0.30	0	28.8
	22	21 22.72	6.04	41 55.3	39.8	27961	134	25	30		24.8
	23	21 16.68	6.06	41 15.5	39.9	27827	105	25	30		20.8
	24	21 10.62	6.07	40 35.6	39.9	27722	74	25	30		16.7
	25	21 4.55	6.06	39 55.7	39.8	27648	44	25	30		12.7
	26	12 20 58.49	− 6.07	− 0 39 15.9	39.8	29.27604	− 14	1.25	0.30	0	8.7
	27	20 52.42	6.06	38 36.1	39.7	27590	+ 16	25	30		4.6
	28	20 46.36	6.07	37 56.4	39.6	27606	47	25	30	{ 0 / 23	0·6 / 56·6
	29	20 40.29	6.06	37 16.8	39.6	27653	77	25	30		52.5
	30	20 34.23	6.06	36 37.2	39.4	27730	107	25	30		48.5
	31	20 28.17	6.04	35 57.8	39.3	27837	136	25	30		44.5
4	1	12 20 22.13	− 6.02	− 0 35 18.5	39.2	29.27973	+ 167	1.25	0.30	23	40.4
	2	20 16.11	6.02	34 39.3	39.0	28140	197	25	30		36.4
	3	20 10.09	6.00	34 0.3	38.9	28337	227	25	30		32.4
	4	20 4.09	5.98	33 21.4	38.6	28564	256	25	30		28.3
	5	19 58.11	5.95	32 42.8	38.5	28820	286	25	30		24.3
	6	12 19 52.16	− 5.94	− 0 32 4.3	38.2	29.29106	+ 316	1.25	0.30	23	20.3
	7	19 46.22	5.91	31 26.1	38.1	29422	345	25	30		16.2
	8	19 40.31	5.88	30 48.0	37.8	29767	375	25	30		12.2
	9	19 34.43	5.85	30 10.2	37.6	30142	403	25	30		8.2
	10	19 28.58	5.82	29 32.6	37.3	30545	433	25	30		4.2
	11	12 19 22.76	− 5.78	− 0 28 55.3	37.0	29.30978	+ 461	1.25	0.30	23	0.1
	12	19 16.98	5.75	28 18.3	36.7	31439	491	25	30	22	56.1
	13	19 11.23	5.71	27 41.6	36.4	31930	519	25	30		52.1
	14	19 5.52	5.66	27 5.2	36.1	32449	547	25	30		48.1
	15	18 59.86	5.62	26 29.1	35.7	32996	576	25	30		44.0
	16	12 18 54.24	− 5.57	− 0 25 53.4	35.4	29.33572	+ 603	1.25	0.30	22	40.0
	17	18 48.67	5.53	25 18.0	35.1	34175	632	25	30		36.0
	18	18 43.14	5.47	24 42.9	34.6	34807	660	25	30		32.0
	19	18 37.67	5.42	24 8.3	34.3	35467	687	25	30		27.9
	20	18 32.25	5.36	23 34.0	33.8	36154	713	25	30		23.9
	21	12 18 26.89	− 5.31	− 0 23 0.2	33.3	29.36867	+ 741	1.25	0.30	22	19.9
	22	18 21.58	5.25	22 26.9	33.0	37608	768	25	30		15.9
	23	18 16.33	5.19	21 53.9	32.5	38376	794	25	30		11.9
	24	18 11.14	5.13	21 21.4	32.1	39170	819	24	30		7.8
	25	18 6.01	5.06	20 49.3	31.6	39989	845	24	30	22	3.8
	26	12 18 0.95	− 4.99	− 0 20 17.7	31.1	29.40834	+ 870	1.24	0.30	21	59.8
	27	17 55.96	4.93	19 46.6	30.6	41704	896	24	30		55.8
	28	17 51.03	4.86	19 16.0	30.1	42600	920	24	30		51.8
	29	17 46.17	4.78	18 45.9	29.6	43520	944	24	30		47.8
	30	17 41.39	− 4.71	18 16.3	+ 29.0	44464	+ 967	24	30		43.8
5	1	12 17 36.68		− 0 17 47.3		29.45431		1.24	0.30	21	39.8

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月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	本初子午線時 正中時
	h m s	s	° ′ ″	″			″	″	h m
5 1	12 17 36.68	−4.63	− 0 17 47.3	+28.6	29.45431	+992	1.24	0.30	21 39.8
2	17 32.05	4.56	17 18.7	28.0	46423	1016	24	30	35.8
3	17 27.49	4.48	16 50.7	27.5	47439	1039	24	30	31.8
4	17 23.01	4.41	16 23.2	26.9	48478	1062	24	30	27.7
5	17 18.60	4.32	15 56.3	26.3	49540	1084	24	30	23.7
6	12 17 14.28	−4.23	− 0 15 30.0	+25.7	29.50624	+1107	1.24	0.30	21 19.7
7	17 10.05	4.15	15 4.3	25.2	51731	1129	24	30	15.7
8	17 5.90	4.07	14 39.1	24.5	52860	1151	24	30	11.7
9	17 1.83	3.98	14 14.6	24.0	54011	1172	24	30	7.7
10	16 57.85	3.88	13 50.6	23.3	55183	1193	24	30	21 3.7
11	12 16 53.97	−3.80	− 0 13 27.3	+22.6	29.56376	+1214	1.24	0.30	20 59.7
12	16 50.17	3.70	13 4.7	22.1	57590	1234	24	30	55.8
13	16 46.47	3.61	12 42.6	21.4	58824	1254	24	30	51.8
14	16 42.86	3.52	12 21.2	20.8	60078	1273	23	30	47.8
15	16 39.34	3.42	12 0.4	20.1	61351	1291	23	30	43.8
16	12 16 35.92	−3.32	− 0 11 40.3	+19.5	29.62642	+1310	1.23	0.30	20 39.8
17	16 32.60	3.22	11 20.8	18.8	63952	1328	23	30	35.8
18	16 29.38	3.12	11 2.0	18.1	65280	1346	23	30	31.8
19	16 26.26	3.01	10 43.9	17.3	66626	1362	23	30	27.8
20	16 23.25	2.91	10 26.6	16.7	67988	1378	23	30	23.9
21	12 16 20.34	−2.81	− 0 10 9.9	+15.9	29.69366	+1395	1.23	0.30	20 19.9
22	16 17.53	2.71	9 54.0	15.3	70761	1411	23	30	15.9
23	16 14.82	2.60	9 38.7	14.6	72172	1427	23	30	11.9
24	16 12.22	2.50	9 24.1	13.8	73599	1441	23	30	8.0
25	16 9.72	2.39	9 10.3	13.1	75040	1456	23	30	4.0
26	12 16 7.33	−2.28	− 0 8 57.2	+12.4	29.76496	+1470	1.23	0.30	20 0.0
27	16 5.05	2.18	8 44.8	11.7	77966	1484	23	30	19 56.0
28	16 2.87	2.06	8 33.1	10.9	79450	1498	23	30	52.1
29	16 0.81	1.96	8 22.2	10.2	80948	1510	23	30	48.1
30	15 58.85	1.84	8 12.0	9.5	82458	1522	23	30	44.2
31	15 57.01	1.74	8 2.5	8.7	83980	1534	23	30	40.2
6 1	12 15 55.27	−1.62	− 0 7 53.8	+8.0	29.85514	+1547	1.23	0.30	19 36.2
2	15 53.65	1.51	7 45.8	7.3	87061	1558	23	30	32.3
3	15 52.14	1.40	7 38.5	6.5	88619	1567	22	29	28.3
4	15 50.74	1.28	7 32.0	5.7	90186	1577	22	29	24.4
5	15 49.46	1.17	7 26.3	5.0	91763	1587	22	29	20.4
6	12 15 48.29	−1.06	− 0 7 21.3	+4.2	29.93350	+1597	1.22	0.29	19 16.5
7	15 47.23	0.93	7 17.1	3.4	94947	1605	22	29	12.5
8	15 46.30	0.82	7 13.7	2.7	96552	1612	22	29	8.6
9	15 45.48	0.69	7 11.0	1.8	98164	1620	22	29	4.6
10	15 44.79	0.58	7 9.2	1.1	29.99784	1627	22	29	19 0.7
11	12 15 44.21	−0.46	− 0 7 8.1	+0.3	30.01411	+1635	1.22	0.29	18 56.7
12	15 43.75	0.35	7 7.8	−0.4	03046	1641	22	29	52.8
13	15 43.40	0.22	7 8.2	1.2	04687	1647	21	29	48.9
14	15 43.18	−0.11	7 9.4	2.0	06334	1652	21	29	44.9
15	15 43.07	0.00	7 11.4	2.8	07986	1658	21	29	41.0
16	12 15 43.07	+0.13	− 0 7 14.2	−3.5	30.09644	+1663	1.21	0.29	18 37.1
17	15 43.20	0.25	7 17.7	4.3	11307	1668	21	29	33.1
18	15 43.45	0.36	7 22.0	5.1	12975	1672	21	29	29.2
19	15 43.81	0.49	7 27.1	5.9	14647	1674	21	29	25.3
20	15 44.30	0.60	7 33.0	6.7	16321	1678	21	29	21.4
21	12 15 44.90	+0.72	− 0 7 39.7	−7.4	30.17999	+1680	1.21	0.29	18 17.5
22	15 45.62	0.84	7 47.1	8.2	19679	1682	21	29	13.5
23	15 46.46	0.95	7 55.3	9.0	21361	1683	21	29	9.6
24	15 47.41	1.08	8 4.3	9.7	23044	1683	21	29	5.7
25	15 48.49	1.19	8 14.0	10.5	24727	1683	21	29	18 1.8
26	12 15 49.68	+1.31	− 0 8 24.5	−11.2	30.26410	+1683	1.21	0.29	17 57.9
27	15 50.99	1.43	8 35.7	12.0	28093	1681	21	29	54.0
28	15 52.42	1.54	8 47.7	12.8	29774	1679	21	29	50.1
29	15 53.96	1.66	9 0.5	13.5	31453	1678	21	29	46.2
30	15 55.62	+1.78	9 14.0	−14.2	33131	+1675	21	29	42.3
7 1	12 15 57.40		− 0 9 28.2		30.34806		1.21	0.29	17 38.4

3 月 26 日衝ニ於ケル等級……7.69

月 日	世界時 0h 赤経		赤緯		地心距離		視半径	地平視差	本初子午線時 正中時
	h m s	s	° ′ ″	″			″	″	h m
7 1	12 15 57.40	+1.89	− 0 9 28.2	−15.0	30.34806	+1673	1.21	0.29	17 38.4
2	15 59.29	2.01	9 43.2	15.7	36479	1670	21	29	34.5
3	16 1.30	2.12	9 58.9	16.5	38149	1667	20	29	30.6
4	16 3.42	2.24	10 15.4	17.2	39816	1663	20	29	26.7
5	16 5.66	2.36	10 32.6	17.9	41479	1659	20	29	22.8
6	12 16 8.02	+2.47	− 0 10 50.5	−18.7	30.43138	+1655	1.20	0.29	17 18.9
7	16 10.49	2.59	11 9.2	19.5	44793	1651	20	29	15.0
8	16 13.08	2.70	11 28.7	20.1	46444	1645	20	29	11.1
9	16 15.78	2.82	11 48.8	20.9	48089	1640	20	29	7.2
10	16 18.60	2.93	12 9.7	21.7	49729	1633	20	29	17 3.3
11	12 16 21.53	+3.05	− 0 12 31.4	−22.3	30.51362	+1627	1.20	0.29	16 59.5
12	16 24.58	3.15	12 53.7	23.0	52989	1619	20	29	55.6
13	16 27.73	3.26	13 16.7	23.7	54608	1611	19	29	51.7
14	16 30.99	3.38	13 40.4	24.4	56219	1602	19	29	47.8
15	16 34.37	3.48	14 4.8	25.1	57821	1594	19	29	44.0
16	12 16 37.85	+3.59	− 0 14 29.9	−25.8	30.59415	+1585	1.19	0.29	16 40.1
17	16 41.44	3.70	14 55.7	26.5	61000	1574	19	29	36.2
18	16 45.14	3.80	15 22.2	27.1	62574	1563	19	29	32.3
19	16 48.94	3.91	15 49.3	27.8	64137	1553	19	29	28.5
20	16 52.85	4.02	16 17.1	28.5	65690	1541	19	29	24.6
21	12 16 56.87	+4.12	− 0 16 45.6	−29.1	30.67231	+1531	1.19	0.29	16 20.7
22	17 0.99	4.22	17 14.7	29.8	68762	1519	19	29	16.9
23	17 5.21	4.33	17 44.5	30.3	70281	1506	19	29	13.0
24	17 9.54	4.42	18 14.8	31.0	71787	1494	19	29	9.2
25	17 13.96	4.53	18 45.8	31.7	73281	1480	19	29	5.3
26	12 17 18.49	+4.62	− 0 19 17.5	−32.2	30.74761	+1468	1.19	0.29	16 1.4
27	17 23.11	4.72	19 49.7	32.9	76229	1454	19	29	15 57.6
28	17 27.83	4.82	20 22.6	33.4	77683	1440	19	29	53.7
29	17 32.65	4.92	20 56.0	34.1	79123	1425	19	29	49.9
30	17 37.57	5.01	21 30.1	34.6	80548	1411	19	29	46.0
31	17 42.58	5.11	22 4.7	35.3	81959	1396	19	29	42.2
8 1	12 17 47.69	+5.20	− 0 22 40.0	−35.8	30.83355	+1380	1.19	0.29	15 38.3
2	17 52.89	5.29	23 15.8	36.4	84735	1364	18	28	34.5
3	17 58.18	5.38	23 52.2	36.9	86099	1348	18	28	30.7
4	18 3.56	5.47	24 29.1	37.5	87447	1331	18	28	26.8
5	18 9.03	5.57	25 6.6	38.0	88778	1315	18	28	23.0
6	12 18 14.60	+5.66	− 0 25 44.6	−38.6	30.90093	+1297	1.18	0.28	15 19.1
7	18 20.26	5.74	26 23.2	39.1	91390	1279	18	28	15.3
8	18 26.00	5.83	27 2.3	39.7	92669	1261	18	28	11.5
9	18 31.83	5.91	27 42.0	40.1	93930	1243	18	28	7.6
10	18 37.74	6.00	28 22.1	40.7	95173	1224	18	28	3.8
11	12 18 43.74	+6.08	− 0 29 2.8	−41.2	30.96397	+1205	1.18	0.28	15 0.0
12	18 49.82	6.15	29 44.0	41.6	97602	1185	18	28	14 56.1
13	18 55.97	6.24	30 25.6	42.1	98787	1164	18	28	52.3
14	19 2.21	6.31	31 7.7	42.6	30.99951	1145	18	28	48.5
15	19 8.52	6.39	31 50.3	43.0	31.01095	1125	18	28	44.6
16	12 19 14.91	+6.46	− 0 32 33.3	−43.5	31.02221	+1104	1.18	0.28	14 40.8
17	19 21.37	6.54	33 16.8	43.8	03325	1083	18	28	37.0
18	19 27.91	6.60	34 0.6	44.3	04408	1061	18	28	33.2
19	19 34.51	6.68	34 44.9	44.8	05469	1040	18	28	29.4
20	19 41.19	6.75	35 29.7	45.1	06509	1019	18	28	25.5
21	12 19 47.94	+6.82	− 0 36 14.8	−45.5	31.07528	+ 996	1.18	0.28	14 21.7
22	19 54.76	6.88	37 0.3	45.9	08524	973	17	28	17.9
23	20 1.64	6.94	37 46.2	46.2	09497	950	17	28	14.1
24	20 8.58	7.01	38 32.4	46.7	10447	927	17	28	10.3
25	20 15.59	7.07	39 19.1	47.0	11374	905	17	28	6.4
26	12 20 22.66	+7.14	− 0 40 6.1	−47.4	31.12279	+ 881	1.17	0.28	14 2.6
27	20 29.80	7.19	40 53.5	47.7	13160	856	17	28	13 58.8
28	20 36.99	7.25	41 41.2	48.0	14016	833	17	28	55.0
29	20 44.24	7.30	42 29.2	48.3	14849	808	17	28	51.2
30	20 51.54	7.36	43 17.5	48.7	15657	785	17	28	47.4
31	20 58.90	+7.41	44 6.2	−49.0	16442	+ 760	17	28	43.6
9 1	12 21 6.31		− 0 44 55.2		31.17202		1.17	0.28	13 39.8

3 月 26 日衝ニ於ケル等級……7.69

月	日	世界時 0h 赤経		赤緯		地心距離		視半徑	地平視差	本子午線中時
		h m s	s	° ′ ″	″			″	″	h m
9	1	12 21 6.31	+ 7.47	− 0 44 55.2	− 49.2	31.17202	+ 735	1.17	0.28	13 39.8
	2	21 13.78	7.51	45 44.4	49.5	17937	710	17	28	36.0
	3	21 21.29	7.55	46 33.9	49.8	18647	685	17	28	32.2
	4	21 28.84	7.61	47 23.7	50.0	19332	661	17	28	28.4
	5	21 36.45	7.66	48 13.7	50.3	19993	636	17	28	24.5
	6	12 21 44.11	+ 7.69	− 0 49 4.0	− 50.4	31.20629	+ 609	1.17	0.28	13 20.7
	7	21 51.80	7.74	49 54.4	50.7	21238	584	17	28	16.9
	8	21 59.54	7.77	50 45.1	51.0	21822	559	17	28	13.1
	9	22 7.31	7.82	51 36.1	51.1	22381	532	17	28	9.3
	10	22 15.13	7.85	52 27.2	51.3	22913	506	17	28	5.5
	11	12 22 22.98	+ 7.89	− 0 53 18.5	− 51.5	31.23419	+ 478	1.17	0.28	13 1.7
	12	22 30.87	7.92	54 10.0	51.6	23897	452	17	28	12 57.9
	13	22 38.79	7.95	55 1.6	51.8	24349	424	17	28	54.1
	14	22 46.74	7.98	55 53.4	51.9	24773	398	17	28	50.3
	15	22 54.72	8.01	56 45.3	52.1	25171	370	17	28	46.5
	16	12 23 2.73	+ 8.03	− 0 57 37.4	− 52.1	31.25541	+ 341	1.17	0.28	12 42.7
	17	23 10.76	8.06	58 29.5	52.3	25882	314	17	28	38.9
	18	23 18.82	8.08	0 59 21.8	52.3	26196	287	17	28	35.1
	19	23 26.90	8.10	1 0 14.1	52.5	26483	258	17	28	31.3
	20	23 35.00	8.12	1 6.6	52.5	26741	231	17	28	27.5
	21	12 23 43.12	+ 8.14	− 1 1 59.1	− 52.6	31.26972	+ 202	1.17	0.28	12 23.7
	22	23 51.26	8.15	2 51.7	52.6	27174	175	17	28	19.9
	23	23 59.41	8.17	3 44.3	52.7	27349	146	17	28	16.1
	24	24 7.58	8.18	4 37.0	52.7	27495	119	17	28	12.4
	25	24 15.76	8.19	5 29.7	52.7	27614	91	17	28	8.6
	26	12 24 23.95	+ 8.20	− 1 6 22.4	− 52.8	31.27705	+ 63	1.17	0.28	12 4.8
	27	24 32.15	8.21	7 15.2	52.7	27768	34	17	28	12 1.0
	28	24 40.36	8.21	8 7.9	52.6	27802	+ 7	17	28	11 57.2
	29	24 48.57	8.22	9 0.5	52.7	27809	− 21	17	28	53.4
	30	24 56.79	8.22	9 53.2	52.6	27788	50	17	28	49.6
10	1	12 25 5.01	+ 8.22	− 1 10 45.8	− 52.6	31.27738	− 78	1.17	0.28	11 45.8
	2	25 13.23	8.21	11 38.4	52.4	27660	106	17	28	42.0
	3	25 21.44	8.21	12 30.8	52.4	27554	134	17	28	38.2
	4	25 29.65	8.20	13 23.2	52.3	27420	163	17	28	34.4
	5	25 37.85	8.20	14 15.5	52.2	27257	191	17	28	30.6
	6	12 25 46.05	+ 8.18	− 1 15 7.7	− 52.1	31.27066	− 218	1.17	0.28	11 26.8
	7	25 54.23	8.17	15 59.8	51.9	26848	247	17	28	23.0
	8	26 2.40	8.16	16 51.7	51.8	26601	274	17	28	19.2
	9	26 10.56	8.15	17 43.5	51.7	26327	303	17	28	15.4
	10	26 18.71	8.13	18 35.2	51.5	26024	331	17	28	11.6
	11	12 26 26.84	+ 8.11	− 1 19 26.7	− 51.3	31.25693	− 358	1.17	0.28	11 7.8
	12	26 34.95	8.09	20 18.0	51.2	25335	386	17	28	4.0
	13	26 43.04	8.07	21 9.2	50.9	24949	414	17	28	11 0.2
	14	26 51.11	8.04	22 0.1	50.7	24535	442	17	28	10 56.4
	15	26 59.15	8.02	22 50.8	50.5	24093	469	17	28	52.6
	16	12 27 7.17	+ 7.98	− 1 23 41.3	− 50.3	31.23624	− 497	1.17	0.28	10 48.8
	17	27 15.15	7.96	24 31.6	50.0	23127	524	17	28	45.0
	18	27 23.11	7.92	25 21.6	49.7	22603	551	17	28	41.2
	19	27 31.03	7.89	26 11.3	49.5	22052	578	17	28	37.4
	20	27 38.92	7.86	27 0.8	49.2	21474	605	17	28	33.6
	21	12 27 46.78	+ 7.82	− 1 27 50.0	− 48.9	31.20869	− 633	1.17	0.28	10 29.8
	22	27 54.60	7.77	28 38.9	48.6	20236	659	17	28	26.0
	23	28 2.37	7.74	29 27.5	48.3	19577	685	17	28	22.2
	24	28 10.11	7.70	30 15.8	48.0	18892	713	17	28	18.4
	25	28 17.81	7.66	31 3.8	47.6	18179	739	17	28	14.6
	26	12 28 25.47	+ 7.60	− 1 31 51.4	− 47.3	31.17440	− 765	1.17	0.28	10 10.8
	27	28 33.07	7.56	32 38.7	46.9	16675	791	17	28	7.0
	28	28 40.63	7.52	33 25.6	46.6	15884	817	17	28	10 3.2
	29	28 48.15	7.46	34 12.2	46.2	15067	842	17	28	9 59.4
	30	28 55.61	7.41	34 58.4	45.8	14225	868	18	28	55.6
	31	29 3.02	+ 7.36	35 44.2	− 45.4	13357	− 893	18	28	51.8
11	1	12 29 10.38		− 1 36 29.6		31.12464		1.18	0.28	9 48.0

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月	日	世界時 0h 赤経		赤緯		地心距離		視半徑	地平視差	本子午線中時
		h m s	s	° ′ ″	″			″	″	h m
11	1	12 29 10.38	+ 7.29	− 1 36 29.6	− 44.9	31.12464	− 917	1.18	0.28	9 48.0
	2	29 17.67	7.24	37 14.5	44.6	11547	942	18	28	44.1
	3	29 24.91	7.18	37 59.1	44.1	10605	966	18	28	40.3
	4	29 32.09	7.11	38 43.2	43.7	09639	991	18	28	36.5
	5	29 39.20	7.05	39 26.9	43.2	08648	1014	18	28	32.7
	6	12 29 46.25	+ 6.98	− 1 40 10.1	− 42.7	31.07634	− 1038	1.18	0.28	9 28.9
	7	29 53.23	6.92	40 52.8	42.2	06596	1061	18	28	25.1
	8	30 0.15	6.85	41 35.0	41.8	05535	1084	18	28	21.3
	9	30 7.00	6.78	42 16.8	41.3	04451	1107	18	28	17.4
	10	30 13.78	6.70	42 58.1	40.7	03344	1129	18	28	13.6
	11	12 30 20.48	+ 6.63	− 1 43 38.8	− 40.2	31.02215	− 1150	1.18	0.28	9 9.8
	12	30 27.11	6.56	44 19.0	39.7	31.01065	1172	18	28	6.0
	13	30 33.67	6.48	44 58.7	39.2	30.99893	1193	18	28	9 2.1
	14	30 40.15	6.40	45 37.9	38.6	98700	1214	18	28	8 58.3
	15	30 46.55	6.31	46 16.5	38.1	97486	1234	18	28	54.5
	16	12 30 52.86	+ 6.24	− 1 46 54.6	− 37.4	30.96252	− 1254	1.18	0.28	8 50.7
	17	30 59.10	6.15	47 32.0	36.9	94998	1274	18	28	46.8
	18	31 5.25	6.07	48 8.9	36.3	93724	1295	18	29	43.0
	19	31 11.32	5.99	48 45.2	35.7	92429	1314	18	29	39.2
	20	31 17.31	5.89	49 20.9	35.1	91115	1333	18	29	35.3
	21	12 31 23.20	+ 5.81	− 1 49 56.0	− 34.5	30.89782	− 1352	1.18	0.29	8 31.5
	22	31 29.01	5.71	50 30.5	33.9	88430	1370	18	29	27.7
	23	31 34.72	5.63	51 4.4	33.2	87060	1389	18	29	23.8
	24	31 40.35	5.53	51 37.6	32.6	85671	1407	18	29	20.0
	25	31 45.88	5.44	52 10.2	32.0	84264	1424	18	29	16.2
	26	12 31 51.32	+ 5.34	− 1 52 42.2	− 31.3	30.82840	− 1441	1.18	0.29	8 12.3
	27	31 56.66	5.25	53 13.5	30.7	81399	1458	18	29	8.5
	28	32 1.91	5.15	53 44.2	30.0	79941	1474	18	29	4.6
	29	32 7.06	5.05	54 14.2	29.3	78467	1490	19	29	8 0.8
	30	32 12.11	4.95	54 43.5	28.7	76977	1505	19	29	7 56.9
12	1	12 32 17.06	+ 4.84	− 1 55 12.2	− 27.9	30.75472	− 1519	1.19	0.29	7 53.1
	2	32 21.90	4.74	55 40.1	27.3	73953	1534	19	29	49.2
	3	32 26.64	4.63	56 7.4	26.5	72419	1548	19	29	45.4
	4	32 31.27	4.52	56 33.9	25.8	70871	1561	19	29	41.5
	5	32 35.79	4.42	56 59.7	25.1	69310	1573	19	29	37.7
	6	12 32 40.21	+ 4.30	− 1 57 24.8	− 24.3	30.67737	− 1585	1.19	0.29	7 33.8
	7	32 44.51	4.20	57 49.1	23.6	66152	1597	19	29	29.9
	8	32 48.71	4.08	58 12.7	22.8	64555	1609	19	29	26.1
	9	32 52.79	3.97	58 35.5	22.1	62946	1621	20	29	22.2
	10	32 56.76	3.86	58 57.6	21.4	61325	1631	20	29	18.3
	11	12 33 0.62	+ 3.74	− 1 59 19.0	− 20.6	30.59694	− 1641	1.20	0.29	7 14.5
	12	33 4.36	3.63	59 39.6	19.8	58053	1650	20	29	10.6
	13	33 7.99	3.52	1 59 59.4	19.1	56403	1660	20	29	6.7
	14	33 11.51	3.39	2 0 18.5	18.3	54743	1669	20	29	7 2.9
	15	33 14.90	3.28	0 36.8	17.6	53074	1676	20	29	6 59.0
	16	12 33 18.18	+ 3.16	− 2 0 54.4	− 16.7	30.51398	− 1683	1.20	0.29	6 55.1
	17	33 21.34	3.04	1 11.1	16.0	49715	1691	20	29	51.2
	18	33 24.38	2.92	1 27.1	15.2	48024	1698	20	29	47.3
	19	33 27.30	2.80	1 42.3	14.4	46326	1704	20	29	43.5
	20	33 30.10	2.68	1 56.7	13.7	44622	1709	20	29	39.6
	21	12 33 32.78	+ 2.56	− 2 2 10.4	− 12.8	30.42913	− 1714	1.20	0.29	6 35.7
	22	33 35.34	2.44	2 23.2	12.1	41199	1719	20	29	31.8
	23	33 37.78	2.32	2 35.3	11.2	39480	1723	20	29	27.9
	24	33 40.10	2.19	2 46.5	10.4	37757	1727	20	29	24.0
	25	33 42.29	2.06	2 56.9	9.6	36030	1729	20	29	20.1
	26	12 33 44.35	+ 1.94	− 2 3 6.5	− 8.8	30.34301	− 1732	1.20	0.29	6 16.2
	27	33 46.29	1.82	3 15.3	8.0	32569	1733	20	29	12.3
	28	33 48.11	1.69	3 23.3	7.1	30836	1736	20	29	8.4
	29	33 49.80	1.57	3 30.4	6.4	29100	1737	21	29	4.5
	30	33 51.37	1.44	3 36.8	5.5	27363	1736	21	29	6 0.6
	31	33 52.81	+ 1.31	3 42.3	− 4.8	25627	− 1736	21	29	5 56.7
12	32	12 33 54.12		− 2 3 47.1		30.23891		1.21	0.29	5 52.8

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月	日	世界時 0h τ	A 長	A 短	B 長(=−Δε)	B 短(=−dε)	C	D	E
		年	〃	〃 単位0.001	〃	〃 単位0.001	〃	〃	s
1	1	+0.0008	−6.347	+88	+3.426	+29	−3.334	+20.145	−0.0025
	2	0035	276	90	410	−5	3.662	20.077	25
	3	0063	206	78	394	−38	3.990	20.003	24
	4	0090	135	53	377	−64	4.315	19.922	24
	5	0117	6.065	+20	359	−78	4.640	19.835	24
	6	+0.0145	−5.996	−16	+3.341	−79	−4.962	+19.742	−0.0024
	7	0172	926	−50	322	−67	5.284	19.643	24
	8	0200	857	−78	302	−42	5.604	19.537	24
	9	0227	789	−93	282	−8	5.921	19.426	24
	10	0254	720	−93	262	+29	6.237	19.308	24
	11	+0.0282	−5.653	−78	+3.241	+62	−6.551	+19.184	−0.0024
	12	0309	585	−49	219	86	6.863	19.054	24
	13	0336	518	−12	197	93	7.173	18.918	24
	14	0364	452	+26	174	81	7.481	18.776	24
	15	0391	386	56	151	51	7.786	18.628	24
	16	+0.0419	−5.320	+71	+3.127	+11	−8.089	+18.474	−0.0024
	17	0446	255	67	103	−33	8.389	18.315	24
	18	0473	191	46	079	−68	8.686	18.149	24
	19	0501	127	+14	054	−87	8.981	17.978	24
	20	0528	064	−22	028	−84	9.273	17.801	24
	21	+0.0555	−5.001	−50	+3.003	−61	−9.561	+17.619	−0.0024
	22	0583	4.938	−63	2.977	−25	9.846	17.431	24
	23	0610	877	−59	951	+16	10.128	17.238	24
	24	0638	816	−38	924	51	10.407	17.039	24
	25	0665	755	−5	897	73	10.683	16.835	24
	26	+0.0692	−4.695	+31	+2.870	+77	−10.955	+16.626	−0.0024
	27	0720	636	62	843	65	11.224	16.411	24
	28	0747	577	83	815	39	11.489	16.192	24
	29	0774	519	89	788	+6	11.751	15.968	23
	30	0802	462	81	760	−28	12.009	15.738	23
	31	0829	405	60	732	−56	12.263	15.504	23
2	1	+0.0857	−4.349	+30	+2.704	−74	−12.513	+15.265	−0.0023
	2	0884	294	−5	676	−80	12.759	15.021	23
	3	0911	239	−40	648	−73	13.001	14.773	23
	4	0939	185	−70	620	−52	13.238	14.520	23
	5	0966	131	−92	592	−21	13.472	14.262	23
	6	+0.0994	−4.079	−99	+2.564	+16	−13.701	+14.000	−0.0023
	7	1021	4.026	−90	536	52	13.926	13.734	23
	8	1048	3.975	−66	508	81	14.147	13.463	24
	9	1076	924	−31	480	94	14.363	13.189	24
	10	1103	873	+8	452	89	14.575	12.910	24
	11	+0.1130	−3.824	+43	+2.425	+65	−14.782	+12.628	−0.0024
	12	1158	775	65	398	+26	14.984	12.341	24
	13	1185	726	69	370	−19	15.181	12.051	24
	14	1213	678	54	344	−59	15.374	11.757	24
	15	1240	631	+25	317	−84	15.561	11.460	24
	16	+0.1267	−3.584	−9	+2.291	−89	−15.744	+11.159	−0.0024
	17	1295	538	−40	264	−72	15.922	10.855	24
	18	1322	493	−58	239	−37	16.095	10.547	24
	19	1349	448	−58	213	+4	16.263	10.236	24
	20	1377	403	−40	188	43	16.426	9.923	24
	21	+0.1404	−3.360	−10	+2.164	+69	−16.583	+9.607	−0.0024
	22	1432	316	+26	139	79	16.736	9.287	24
	23	1459	273	59	115	70	16.883	8.966	24
	24	1486	231	82	092	47	17.025	8.641	24
	25	1514	189	92	069	+15	17.162	8.314	24
	26	+0.1541	−3.148	+86	+2.047	−19	−17.293	+7.985	−0.0024
	27	1568	107	69	025	−49	17.418	7.654	24
	28	1596	066	41	2.003	−69	17.539	7.320	24
3	1	+0.1623	−3.026	+7	+1.982	−79	−17.654	+6.984	−0.0024

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		年	〃	〃 単位0.001	〃	〃 単位0.001	〃	〃	s
3	1	+0.1623	−3.026	+7	+1.982	−79	−17.654	+6.984	−0.0024
	2	1651	2.986	−28	962	−76	17.763	6.646	24
	3	1678	947	−60	942	−59	17.867	6.306	24
	4	1705	908	−84	923	−32	17.965	5.964	24
	5	1733	869	−97	904	+2	18.058	5.621	25
	6	+0.1760	−2.831	−96	+1.886	+39	−18.145	+5.277	−0.0025
	7	1788	793	−78	868	72	227	4.931	25
	8	1815	755	−48	851	92	303	4.583	25
	9	1842	718	−11	835	94	374	4.234	25
	10	1870	681	+26	819	76	439	3.884	25
	11	+0.1897	−2.644	+53	+1.804	+42	−18.498	+3.533	−0.0025
	12	1924	607	64	790	−3	552	3.182	25
	13	1952	570	56	776	−47	600	2.829	25
	14	1979	534	+31	763	−79	642	2.475	25
	15	2007	498	−2	751	−92	679	2.121	25
	16	+0.2034	−2.461	−35	+1.739	−82	−18.710	+1.767	−0.0025
	17	2061	425	−57	728	−51	735	1.412	25
	18	2089	389	−61	718	−10	755	1.057	25
	19	2116	353	−47	708	+32	769	0.702	25
	20	2143	317	−18	699	64	777	+0.347	26
	21	+0.2171	−2.281	+20	+1.690	+80	−18.780	−0.008	−0.0026
	22	2198	245	56	683	76	777	0.362	26
	23	2226	209	84	676	55	768	0.716	26
	24	2253	173	97	669	+24	754	1.070	26
	25	2280	137	95	664	−11	734	1.423	26
	26	+0.2308	−2.101	+79	+1.659	−42	−18.709	−1.776	−0.0026
	27	2335	064	53	654	−65	678	2.128	26
	28	2362	2.028	+20	650	−77	642	2.479	26
	29	2390	1.991	−15	647	−77	600	2.829	26
	30	2417	955	−47	645	−64	553	3.178	26
	31	2445	918	−73	643	−41	500	3.526	26
4	1	+0.2472	−1.880	−90	+1.641	−9	−18.441	−3.873	−0.0026
	2	2499	843	−93	641	+27	377	4.219	26
	3	2527	805	−83	641	61	307	4.563	26
	4	2554	767	−59	641	85	233	4.905	27
	5	2582	729	−25	642	94	153	5.246	27
	6	+0.2609	−1.690	+11	+1.644	+85	−18.068	−5.585	−0.0027
	7	2636	652	40	646	56	17.977	5.922	27
	8	2664	612	56	649	+14	17.881	6.257	27
	9	2691	573	54	652	−31	17.780	6.591	27
	10	2718	533	35	655	−69	17.674	6.922	27
	11	+0.2746	−1.492	+3	+1.660	−91	−17.563	−7.250	−0.0027
	12	2773	451	−32	664	−89	17.447	7.577	27
	13	2801	410	−58	669	−65	17.325	7.901	27
	14	2828	369	−69	675	−26	17.198	8.223	27
	15	2855	327	−60	681	+18	17.067	8.542	27
	16	+0.2883	−1.284	−33	+1.687	+56	−16.930	−8.859	−0.0027
	17	2910	241	+6	694	79	16.789	9.173	27
	18	2937	198	47	701	82	16.643	9.484	27
	19	2965	154	81	709	66	16.492	9.792	27
	20	2992	109	101	716	+35	16.337	10.097	28
	21	+0.3020	−1.064	+104	+1.724	−1	−16.177	−10.399	−0.0028
	22	3047	1.019	91	733	−35	16.012	10.698	28
	23	3074	0.973	66	741	−62	15.843	10.993	28
	24	3102	926	+34	750	−77	15.669	11.285	28
	25	3129	879	−2	759	−79	15.491	11.573	28
	26	+0.3156	−0.832	−35	+1.769	−69	−15.308	−11.858	−0.0028
	27	3184	783	−62	778	−47	15.121	12.140	28
	28	3211	735	−81	788	−18	14.930	12.417	28
	29	3239	685	−87	798	+17	14.735	12.691	28
	30	3266	636	−81	808	51	14.536	12.962	28
5	1	+0.3293	−0.585	−61	+1.818	+78	−14.332	−13.228	−0.0028

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		年	〃	〃 単位0.001	〃	〃 単位0.001	〃	〃	s
5	1	+ 0.3293	− 0.585	− 61	+ 1.818	+ 78	− 14.332	− 13.228	− 0.0028
	2	3321	534	− 32	828	92	14.124	13.491	28
	3	3348	483	+ 2	838	89	13.913	13.749	28
	4	3376	431	32	848	67	13.697	14.004	28
	5	3403	378	52	858	+ 30	13.478	14.254	28
	6	+ 0.3430	− 0.325	+ 55	+ 1.868	− 15	− 13.256	− 14.500	− 0.0028
	7	3458	271	39	878	− 56	13.029	14.742	28
	8	3485	216	+ 10	888	− 85	12.799	14.980	28
	9	3512	162	− 26	898	− 92	12.565	15.213	28
	10	3540	106	− 58	908	− 76	12.328	15.442	28
	11	+ 0.3567	− 0.050	− 76	+ 1.918	− 42	− 12.088	− 15.666	− 0.0028
	12	3595	+ 0.007	− 75	928	+ 2	11.844	15.886	28
	13	3622	064	− 53	938	44	11.596	16.102	28
	14	3649	122	− 16	947	74	11.345	16.313	28
	15	3677	180	+ 28	956	85	11.092	16.519	28
	16	+ 0.3704	+ 0.239	+ 68	+ 1.965	+ 75	− 10.835	− 16.720	− 0.0028
	17	3731	298	97	974	48	10.576	16.916	28
	18	3759	358	108	982	+ 12	10.313	17.107	28
	19	3786	418	101	990	− 25	10.048	17.294	28
	20	3814	479	79	1.998	− 57	9.780	17.476	28
	21	+ 0.3841	+ 0.540	+ 47	+ 2.006	− 76	− 9.510	− 17.652	− 0.0028
	22	3868	602	+ 11	013	− 82	9.237	17.824	28
	23	3896	664	− 24	020	− 75	8.961	17.990	28
	24	3923	727	− 54	027	− 55	8.683	18.151	28
	25	3950	790	− 74	033	− 26	8.403	18.307	28
	26	+ 0.3978	+ 0.854	− 83	+ 2.039	+ 8	− 8.120	− 18.458	− 0.0028
	27	4005	918	− 79	044	42	7.836	18.603	28
	28	4033	0.982	− 62	049	71	7.549	18.744	28
	29	4060	1.047	− 35	054	89	7.260	18.879	27
	30	4087	112	− 2	058	91	6.969	19.009	27
	31	4115	178	+ 29	062	74	6.676	19.133	27
6	1	+ 0.4142	+ 1.244	+ 51	+ 2.065	+ 42	− 6.381	− 19.252	− 0.0027
	2	4169	310	58	068	0	6.085	19.365	27
	3	4197	377	48	070	− 43	5.787	19.473	27
	4	4224	443	+ 22	072	− 76	5.488	19.576	27
	5	4252	511	− 14	073	− 91	5.187	19.673	27
	6	+ 0.4279	+ 1.578	− 49	+ 2.074	− 83	− 4.885	− 19.765	− 0.0027
	7	4306	646	− 75	074	− 55	4.581	19.851	27
	8	4334	714	− 82	074	− 14	4.276	19.932	27
	9	4361	782	− 69	073	+ 30	3.970	20.007	27
	10	4389	851	− 38	071	65	3.664	20.077	27
	11	+ 0.4416	+ 1.919	+ 5	+ 2.069	+ 83	− 3.356	− 20.141	− 0.0027
	12	4443	1.988	48	067	81	3.047	199	27
	13	4471	2.057	83	063	60	2.738	252	27
	14	4498	126	103	060	+ 26	2.428	293	27
	15	4525	195	104	055	− 13	2.117	340	27
	16	+ 0.4553	+ 2.265	+ 88	+ 2.050	− 48	− 1.806	− 20.375	− 0.0027
	17	4580	334	60	045	− 73	1.494	405	26
	18	4608	404	+ 23	039	− 84	1.182	429	26
	19	4635	474	− 13	032	− 81	0.869	448	26
	20	4662	543	− 46	025	− 64	0.557	461	26
	21	+ 0.4690	+ 2.613	− 70	+ 2.017	− 36	− 0.244	− 20.468	− 0.0026
	22	4717	682	− 83	2.008	− 2	+ 0.069	470	26
	23	4744	752	− 81	1.999	+ 33	0.381	466	26
	24	4772	822	− 67	989	64	0.694	456	26
	25	4799	891	− 41	979	86	1.007	441	26
	26	+ 0.4827	+ 2.961	− 8	+ 1.968	+ 92	+ 1.319	− 20.420	− 0.0026
	27	4854	3.030	+ 25	956	81	1.630	393	26
	28	4881	100	51	944	53	1.941	361	26
	29	4909	169	63	932	+ 13	2.251	323	26
	30	4936	238	58	918	− 30	2.561	279	26
7	1	+ 0.4963	+ 3.307	+ 36	+ 1.905	− 67	+ 2.870	− 20.230	− 0.0026

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7	1	+ 0.4963	+ 3.307	+ 36	+ 1.905	− 67	+ 2.870	− 20.230	− 0.0026
	2	4991	376	+ 2	890	− 87	3.179	20.175	25
	3	5018	444	− 35	875	− 87	3.486	20.115	25
	4	5046	512	− 65	860	− 65	3.792	20.049	25
	5	5073	581	− 80	844	− 28	4.098	19.977	25
	6	+ 0.5100	+ 3.649	− 75	+ 1.827	+ 16	+ 4.402	− 19.900	− 0.0025
	7	5128	716	− 51	810	54	4.705	19.817	25
	8	5155	784	− 14	792	79	5.007	19.729	25
	9	5183	851	+ 29	774	84	5.308	19.635	25
	10	5210	918	67	755	69	5.607	19.536	25
	11	+ 0.5237	+ 3.984	+ 93	+ 1.736	+ 39	+ 5.905	− 19.432	− 0.0025
	12	5265	4.050	101	717	+ 1	6.201	19.322	25
	13	5292	116	92	696	− 37	6.495	19.207	25
	14	5319	182	68	676	− 66	6.788	19.086	25
	15	5347	247	+ 35	655	− 83	7.078	18.960	25
	16	+ 0.5374	+ 4.311	− 3	+ 1.633	− 85	+ 7.367	− 18.829	− 0.0025
	17	5402	376	− 38	612	− 72	7.653	18.693	25
	18	5429	440	− 66	589	− 48	7.938	18.551	25
	19	5456	503	− 83	567	− 14	8.220	18.404	25
	20	5484	567	− 87	544	+ 22	8.500	18.253	25
	21	+ 0.5511	+ 4.629	− 76	+ 1.520	+ 57	+ 8.778	− 18.096	− 0.0025
	22	5538	692	− 52	497	82	9.053	17.934	25
	23	5566	753	− 20	473	94	9.326	17.768	25
	24	5593	815	+ 15	448	87	9.597	17.596	25
	25	5621	876	46	424	63	9.865	17.419	24
	26	+ 0.5648	+ 4.936	+ 64	+ 1.399	+ 26	+ 10.129	− 17.238	− 0.0024
	27	5675	4.996	65	374	− 18	10.392	17.051	24
	28	5703	5.055	48	349	− 57	10.651	16.860	24
	29	5730	114	+ 18	323	− 83	10.907	16.664	24
	30	5757	172	− 19	297	− 89	11.161	16.463	24
	31	5785	230	− 51	272	− 73	11.411	16.257	24
8	1	+ 0.5812	+ 5.287	− 72	+ 1.245	− 40	+ 11.659	− 16.047	− 0.0024
	2	5840	344	− 74	219	+ 3	11.903	15.833	24
	3	5867	401	− 56	193	43	12.144	15.614	24
	4	5894	456	− 23	166	73	12.381	15.391	24
	5	5922	511	+ 17	140	83	12.616	15.163	24
	6	+ 0.5949	+ 5.566	+ 56	+ 1.113	+ 75	+ 12.847	− 14.931	− 0.0024
	7	5977	620	84	087	49	13.074	14.695	24
	8	6004	674	98	060	+ 13	13.298	14.454	24
	9	6031	727	94	033	− 25	13.518	14.210	24
	10	6059	780	75	1.007	− 57	13.734	13.961	24
	11	+ 0.6086	+ 5.831	+ 44	+ 0.980	− 79	+ 13.947	− 13.708	− 0.0024
	12	6113	883	+ 9	954	− 86	14.156	13.451	24
	13	6141	933	− 28	927	− 79	14.361	13.191	24
	14	6168	5.984	− 59	901	− 58	14.562	12.926	24
	15	6196	6.034	− 81	875	− 27	14.758	12.658	24
	16	+ 0.6223	+ 6.083	− 90	+ 0.848	+ 10	+ 14.951	− 12.387	− 0.0024
	17	6250	132	− 85	822	46	15.140	12.111	24
	18	6278	180	− 66	797	76	15.324	11.832	25
	19	6305	228	− 36	771	93	15.504	11.550	25
	20	6332	275	− 1	746	93	15.680	11.265	25
	21	+ 0.6360	+ 6.322	+ 33	+ 0.721	+ 75	+ 15.851	− 10.976	− 0.0025
	22	6387	368	57	696	+ 40	16.018	10.684	25
	23	6415	413	65	671	− 4	16.181	10.389	25
	24	6442	458	55	647	− 46	16.339	10.091	25
	25	6469	503	+ 29	623	− 78	16.492	9.789	25
	26	+ 0.6497	+ 6.547	− 6	+ 0.599	− 91	+ 16.641	− 9.486	− 0.0025
	27	6524	591	− 41	576	− 82	16.785	9.179	25
	28	6551	635	− 65	553	− 52	16.925	8.869	25
	29	6579	677	− 71	530	− 11	17.060	8.557	25
	30	6606	720	− 58	508	+ 32	17.190	8.242	25
	31	6634	762	− 29	486	66	17.315	7.924	25
9	1	+ 0.6661	+ 6.804	+ 10	+ 0.465	+ 83	+ 17.435	− 7.605	− 0.0025

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9	1	+ 0.6661	+ 6.804	+ 10	+ 0.465	+ 83	+ 17.435	− 7.605	− 0.0025
	2	6688	845	50	444	80	17.551	7.282	25
	3	6716	886	81	424	58	17.661	6.958	25
	4	6743	927	98	404	+ 24	17.767	6.631	25
	5	6771	6.967	98	384	− 14	17.868	6.302	25
	6	+ 0.6798	+ 7.007	+ 82	+ 0.365	− 49	+ 17.963	− 5.972	− 0.0025
	7	6825	047	54	347	− 73	18.053	5.639	25
	8	6853	086	+ 20	329	− 84	138	5.305	25
	9	6880	125	− 16	312	− 81	218	4.969	26
	10	6907	164	− 49	295	− 65	293	4.631	26
	11	+ 0.6935	+ 7.202	− 74	+ 0.279	− 38	+ 18.362	− 4.292	− 0.0026
	12	6962	241	− 88	263	− 3	426	3.951	26
	13	6990	279	− 88	248	+ 33	485	3.610	26
	14	7017	317	− 75	233	66	539	3.267	26
	15	7044	355	− 50	220	89	587	2.922	26
	16	+ 0.7072	+ 7.392	− 17	+ 0.206	+ 96	+ 18.630	− 2.577	− 0.0026
	17	7099	430	+ 17	194	84	668	2.231	26
	18	7126	467	45	182	54	700	1.884	26
	19	7154	504	59	170	+ 12	726	1.537	26
	20	7181	542	55	159	− 33	748	1.189	26
	21	+ 0.7209	+ 7.579	+ 34	+ 0.149	− 70	+ 18.764	− 0.840	− 0.0026
	22	7236	616	+ 1	140	− 91	774	0.491	26
	23	7263	653	− 34	131	− 89	779	− 0.141	27
	24	7291	690	− 62	123	− 65	779	+ 0.209	27
	25	7318	727	− 74	115	− 25	773	0.559	27
	26	+ 0.7345	+ 7.764	− 65	+ 0.108	+ 20	+ 18.762	+ 0.908	− 0.0027
	27	7373	801	− 38	102	59	745	1.258	27
	28	7400	839	+ 2	096	82	722	1.608	27
	29	7428	876	45	091	84	694	1.958	27
	30	7455	914	80	087	67	661	2.307	27
10	1	+ 0.7482	+ 7.951	+ 102	+ 0.083	+ 35	+ 18.622	+ 2.656	− 0.0027
	2	7510	7.989	106	080	− 4	577	3.004	27
	3	7537	8.027	93	077	− 41	527	3.351	27
	4	7565	065	67	076	− 68	471	3.698	27
	5	7592	104	+ 33	074	− 83	410	4.044	27
	6	+ 0.7619	+ 8.143	− 4	+ 0.074	− 83	+ 18.343	+ 4.389	− 0.0027
	7	7647	182	− 37	074	− 70	271	4.733	27
	8	7674	221	− 64	074	− 46	193	5.075	27
	9	7701	261	− 81	075	− 14	110	5.416	28
	10	7729	301	− 86	077	+ 21	18.022	5.756	28
	11	+ 0.7756	+ 8.341	− 78	+ 0.079	+ 55	+ 17.928	+ 6.094	− 0.0028
	12	7784	381	− 58	082	81	17.829	6.431	28
	13	7811	422	− 29	086	94	17.724	6.766	28
	14	7838	464	+ 4	089	89	17.614	7.099	28
	15	7866	506	33	094	67	17.499	7.430	28
	16	+ 0.7893	+ 8.548	+ 51	+ 0.099	+ 29	+ 17.379	+ 7.759	− 0.0028
	17	7920	590	53	104	− 17	17.253	8.086	28
	18	7948	633	37	110	− 59	17.122	8.411	28
	19	7975	677	+ 7	116	− 87	16.986	8.733	28
	20	8003	721	− 30	123	− 94	16.844	9.052	28
	21	+ 0.8030	+ 8.766	− 62	+ 0.130	− 77	+ 16.698	+ 9.369	− 0.0028
	22	8057	811	− 80	138	− 41	16.546	9.684	28
	23	8085	856	− 78	146	+ 5	16.389	9.996	28
	24	8112	903	− 54	154	48	16.227	10.305	28
	25	8139	949	− 15	162	78	16.061	10.611	28
	26	+ 0.8167	+ 8.997	+ 31	+ 0.171	+ 89	+ 15.889	+ 10.914	− 0.0028
	27	8194	9.045	74	180	77	15.712	11.213	28
	28	8222	093	103	190	47	15.530	11.510	28
	29	8249	142	114	200	+ 8	15.344	11.804	28
	30	8276	192	106	210	− 31	15.153	12.093	28
	31	8304	242	82	220	− 63	14.957	12.380	28
11	1	+ 0.8331	+ 9.293	+ 48	+ 0.230	− 82	+ 14.756	+ 12.662	− 0.0028

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11	1	+ 0.8331	+ 9.293	+ 48	+ 0.230	− 82	+ 14.756	+ 12.662	− 0.0028
	2	8358	344	+ 11	241	− 86	14.551	12.942	28
	3	8386	396	− 25	252	− 75	14.341	13.217	28
	4	8413	449	− 53	262	− 53	14.126	13.489	28
	5	8441	503	− 72	273	− 23	13.908	13.756	28
	6	+ 0.8468	+ 9.557	− 80	+ 0.284	+ 12	+ 13.684	+ 14.019	− 0.0028
	7	8495	611	− 76	295	45	13.457	14.278	28
	8	8523	667	− 60	306	73	13.225	14.533	28
	9	8550	723	− 34	317	90	12.989	14.784	28
	10	8578	779	− 4	328	91	12.749	15.030	28
	11	+ 0.8605	+ 9.837	+ 26	+ 0.339	+ 75	+ 12.505	+ 15.272	− 0.0028
	12	8632	895	46	350	+ 43	12.258	15.509	28
	13	8660	9.953	53	361	0	12.006	15.741	28
	14	8687	10.012	42	371	− 44	11.750	15.968	28
	15	8714	072	+ 14	382	− 78	11.491	16.191	28
	16	+ 0.8742	+ 10.133	− 22	+ 0.392	− 94	+ 11.228	+ 16.409	− 0.0028
	17	8769	194	− 58	402	− 86	10.962	16.622	28
	18	8797	256	− 84	412	− 56	10.692	16.829	28
	19	8824	318	− 90	422	− 13	10.418	17.032	28
	20	8851	381	− 74	431	+ 33	10.141	17.229	28
	21	+ 0.8879	+ 10.444	− 39	+ 0.440	+ 71	+ 9.861	+ 17.421	− 0.0028
	22	8906	509	+ 9	449	89	9.578	17.608	28
	23	8933	573	56	458	85	9.291	17.789	28
	24	8961	638	94	466	61	9.002	17.965	28
	25	8988	704	114	473	+ 23	8.710	18.135	28
	26	+ 0.9016	+ 10.770	+ 114	+ 0.481	− 19	+ 8.415	+ 18.300	− 0.0028
	27	9043	837	95	488	− 56	8.117	18.459	28
	28	9070	905	63	494	− 80	7.816	18.613	28
	29	9098	10.973	+ 25	500	− 89	7.513	18.760	28
	30	9125	11.041	− 12	506	− 82	7.208	18.902	28
12	1	+ 0.9152	+ 11.110	− 44	+ 0.511	− 61	+ 6.900	+ 19.038	− 0.0028
	2	9180	179	− 65	515	− 32	6.590	169	28
	3	9207	249	− 75	519	+ 3	6.277	293	28
	4	9235	319	− 73	523	37	5.963	411	28
	5	9262	390	− 59	526	66	5.646	523	28
	6	+ 0.9289	+ 11.461	− 36	+ 0.528	+ 86	+ 5.328	+ 19.629	− 0.0027
	7	9317	532	− 7	530	91	5.008	729	27
	8	9344	603	+ 23	531	80	4.687	822	27
	9	9372	675	45	532	53	4.363	910	27
	10	9399	748	56	532	+ 14	4.038	19.991	27
	11	+ 0.9426	+ 11.820	+ 50	+ 0.531	− 30	+ 3.712	+ 20.067	− 0.0027
	12	9454	893	+ 26	529	− 67	3.385	135	27
	13	9481	11.966	− 9	527	− 89	3.057	198	27
	14	9508	12.039	− 48	525	− 90	2.727	253	27
	15	9536	113	− 79	521	− 68	2.397	303	27
	16	+ 0.9563	+ 12.187	− 95	+ 0.517	− 29	+ 2.066	+ 20.346	− 0.0027
	17	9591	260	− 89	512	+ 17	1.734	383	27
	18	9618	334	− 61	507	59	1.402	413	27
	19	9645	408	− 17	501	85	1.069	437	27
	20	9673	482	+ 32	494	90	0.736	454	27
	21	+ 0.9700	+ 12.556	+ 76	+ 0.486	+ 73	+ 0.402	+ 20.465	− 0.0026
	22	9727	630	105	478	+ 38	+ 0.068	469	26
	23	9755	704	114	469	− 4	− 0.266	468	26
	24	9782	779	103	459	− 45	0.599	459	26
	25	9810	853	76	449	− 75	0.933	445	26
	26	+ 0.9837	+ 12.927	+ 39	+ 0.438	− 90	− 1.266	+ 20.423	− 0.0026
	27	9864	13.001	0	426	− 88	1.599	396	26
	28	9892	074	− 35	414	− 71	1.932	362	26
	29	9919	148	− 60	400	− 42	2.264	321	26
	30	9946	222	− 74	386	− 8	2.595	274	26
	31	0.9974	295	− 74	372	+ 28	2.925	220	26
12	32	+ 1.0001	+ 13.368	− 62	+ 0.357	+ 60	− 3.254	+ 20.160	− 0.0026

世界時 0h

月	日	f 長 s	f 短 s 単位0.0001	g 長 〃	g 短 〃 単位0.001	G 長 h m s	G 短 h m	h 〃	H h m s	i 〃
1	1	−0.9756	+ 135	+7.212	+ 93	10 6 34	1 13	+20.419	23 22 25	−1.446
	2	9647	138	143	91	5 56	23 47	408	18 39	1.588
	3	9539	119	073	87	5 18	22 16	397	14 53	1.730
	4	9431	81	7.003	83	4 41	20 39	384	11 7	1.872
	5	9324	+ 31	6.933	81	4 5	18 57	371	7 21	2.012
	6	−0.9217	− 25	+6.864	+ 81	10 3 30	17 14	+20.357	23 3 34	−2.152
	7	9111	− 77	794	84	2 55	15 32	341	22 59 46	2.292
	8	9005	− 119	724	88	2 20	13 54	325	55 59	2.431
	9	8900	− 142	655	93	1 47	12 21	308	52 11	2.568
	10	8795	− 143	585	98	1 14	10 52	290	48 23	2.705
	11	−0.8691	− 119	+6.516	+ 100	10 0 42	9 26	+20.272	22 44 35	−2.841
	12	8588	− 76	446	99	10 0 11	8 0	252	40 46	2.977
	13	8485	− 18	377	93	9 59 40	6 29	232	36 56	3.111
	14	8383	+ 40	308	85	59 10	4 49	211	33 7	3.244
	15	8282	86	240	76	58 41	2 50	190	29 16	3.377
	16	−0.8182	+ 108	+6.171	+ 71	9 58 13	0 34	+20.167	22 25 25	−3.508
	17	8082	103	103	75	57 46	22 16	144	21 33	3.638
	18	7983	71	6.035	82	57 19	20 17	121	17 41	3.767
	19	7885	+ 21	5.968	88	56 53	18 36	096	13 49	3.895
	20	7788	− 33	900	87	56 28	17 3	071	9 56	4.021
	21	−0.7692	− 76	+5.833	+ 79	9 56 4	15 24	+20.046	22 6 3	−4.147
	22	7596	− 97	766	68	55 41	13 26	20.020	22 2 9	4.270
	23	7502	− 90	700	61	55 18	11 0	19.993	21 58 15	4.393
	24	7408	− 57	634	63	54 56	8 25	966	54 20	4.513
	25	7315	− 8	569	73	54 36	6 17	939	50 25	4.633
	26	−0.7223	+ 47	+5.504	+ 83	9 54 15	4 34	+19.911	21 46 28	−4.751
	27	7132	95	439	89	53 56	3 5	883	42 32	4.867
	28	7042	127	374	91	53 38	1 40	854	38 34	4.982
	29	6953	137	310	89	53 20	0 14	826	34 35	5.096
	30	6865	125	247	86	53 3	22 44	797	30 37	5.208
	31	6778	92	184	82	52 47	21 9	768	26 38	5.318
2	1	−0.6692	+ 47	+5.121	+ 80	9 52 31	19 29	+19.738	21 22 38	−5.427
	2	6607	− 7	5.059	80	52 16	17 47	708	18 37	5.533
	3	6522	− 61	4.998	83	52 2	16 5	679	14 37	5.638
	4	6439	− 108	937	88	51 48	14 26	649	10 34	5.741
	5	6357	− 140	4.877	94	51 35	12 52	619	6 32	5.843
	6	−0.6276	− 151	+4.817	+ 100	9 51 23	11 24	+19.589	21 2 28	−5.942
	7	6196	− 138	758	104	51 11	10 0	559	20 58 25	6.040
	8	6118	− 101	700	104	51 0	8 37	529	54 20	6.135
	9	6040	− 47	642	99	50 49	7 12	500	50 14	6.229
	10	5963	+ 13	585	89	50 39	5 39	470	46 8	6.320
	11	−0.5887	+ 66	+4.528	+ 78	9 50 28	3 45	+19.441	20 42 2	−6.410
	12	5812	100	472	70	50 19	1 26	412	37 54	6.498
	13	5738	106	416	72	50 9	22 58	383	33 46	6.584
	14	5664	83	361	80	50 0	20 50	354	29 38	6.667
	15	5592	+ 39	307	88	49 50	19 7	326	25 28	6.748
	16	−0.5520	− 14	+4.254	+ 89	9 49 41	17 36	+19.298	20 21 19	−6.828
	17	5449	− 61	201	82	49 31	16 4	270	17 8	6.905
	18	5379	− 89	149	69	49 22	14 12	243	12 57	6.980
	19	5310	− 89	097	57	49 13	11 44	216	8 45	7.053
	20	5242	− 62	4.046	58	49 3	8 53	190	4 33	7.124
	21	−0.5175	− 15	+3.996	+ 70	9 48 53	6 33	+19.165	20 0 20	−7.192
	22	5109	+ 40	946	83	48 42	4 47	140	19 56 7	7.258
	23	5043	90	897	92	48 31	3 20	116	51 53	7.322
	24	4978	126	849	94	48 19	1 58	092	47 38	7.384
	25	4914	141	802	93	48 6	0 36	069	43 23	7.443
	26	−0.4850	+ 132	+3.755	+ 89	9 47 53	23 10	+19.047	19 39 8	−7.500
	27	4788	105	708	84	47 38	21 39	026	34 53	7.555
	28	4725	62	663	81	47 23	20 2	19.005	30 37	7.607
3	1	−0.4664	+ 11	+3.617	+ 79	9 47 6	18 21	+18.985	19 26 20	−7.657

世界時 0h

月	日	f 長 s	f 短 s 単位0.0001	g 長 〃	g 短 〃 単位0.001	G 長 h m s	G 短 h m	h 〃	H h m s	i 〃
3	1	−0.4664	+ 11	+3.617	+ 79	9 47 6	18 21	+18.985	19 26 20	−7.657
	2	4603	− 42	573	81	46 48	16 39	966	22 3	704
	3	4543	− 91	529	84	46 28	15 0	947	17 46	749
	4	4483	− 129	486	90	46 7	13 25	930	13 28	791
	5	4424	− 149	444	97	45 45	11 55	913	9 10	832
	6	−0.4365	− 146	+3.402	+ 103	9 45 20	10 30	+18.897	19 4 52	−7.869
	7	4307	− 120	360	106	44 53	9 10	882	19 0 33	905
	8	4249	− 74	320	103	44 25	7 51	868	18 56 14	938
	9	4192	− 17	279	94	43 54	6 26	855	51 55	969
	10	4135	+ 39	240	81	43 21	4 46	843	47 35	7.997
	11	−0.4079	+ 81	+3.201	+ 67	9 42 45	2 33	+18.832	18 43 15	−8.023
	12	4022	98	162	64	42 7	23 49	822	38 56	046
	13	3966	85	124	73	41 25	21 19	814	34 35	067
	14	3910	+ 48	087	85	40 41	19 26	806	30 15	085
	15	3854	− 3	050	92	39 53	17 55	799	25 55	101
	16	−0.3799	− 53	+3.014	+ 88	9 39 2	16 28	+18.793	18 21 34	−8.114
	17	3743	− 87	2.978	76	38 7	14 49	788	17 14	125
	18	3688	− 94	942	62	37 9	12 37	785	12 55	134
	19	3633	− 73	907	57	36 7	9 43	782	8 34	140
	20	3578	− 27	873	66	35 1	7 1	780	18 4 14	143
	21	−0.3523	+ 30	+2.840	+ 83	9 33 50	5 5	+18.780	17 59 55	−8.144
	22	3468	86	806	94	32 36	3 34	780	55 34	143
	23	3412	128	773	100	31 16	2 14	782	51 15	139
	24	3357	149	741	101	29 53	0 56	785	46 56	133
	25	3302	146	708	96	28 24	23 35	788	42 37	125
	26	−0.3247	+ 121	+2.677	+ 90	9 26 50	22 8	+18.793	17 38 19	−8.114
	27	3191	81	645	84	25 11	20 35	799	34 0	101
	28	3135	+ 31	615	80	23 27	18 57	806	29 42	085
	29	3079	− 22	584	78	21 37	17 17	814	25 25	067
	30	3023	− 72	554	79	19 41	15 36	823	21 7	046
	31	2966	− 112	525	83	17 40	13 56	833	16 50	8.023
4	1	−0.2909	− 137	+2.496	+ 90	9 15 32	12 22	+18.843	17 12 33	−7.998
	2	2852	− 143	467	97	13 18	10 55	855	8 17	970
	3	2794	− 126	439	103	10 57	9 35	868	17 4 2	940
	4	2736	− 90	412	103	8 29	8 18	881	16 59 46	908
	5	2678	− 39	384	98	5 55	7 0	896	55 32	873
	6	−0.2619	+ 16	+2.358	+ 85	9 3 13	5 31	+18.911	16 51 17	−7.836
	7	2559	62	331	69	9 0 24	3 37	927	47 4	796
	8	2499	86	306	58	8 57 27	0 57	945	42 51	755
	9	2438	83	281	62	54 23	22 0	962	38 39	711
	10	2377	53	256	78	51 11	19 46	18.981	34 27	665
	11	−0.2315	+ 4	+2.232	+ 91	8 47 51	18 7	+19.001	16 30 16	−7.617
	12	2252	− 49	208	94	44 22	16 41	021	26 6	567
	13	2189	− 90	185	88	40 46	15 13	042	21 56	514
	14	2125	− 106	163	74	37 1	13 22	063	17 47	459
	15	2061	− 92	141	62	33 7	10 52	085	13 39	402
	16	−0.1996	− 50	+2.120	+ 66	8 29 5	8 1	+19.108	16 9 31	−7.342
	17	1930	+ 9	100	79	24 55	5 43	132	5 24	281
	18	1863	71	080	94	20 36	4 1	155	16 1 17	218
	19	1796	124	062	104	16 7	2 37	180	15 57 13	152
	20	1728	155	044	107	11 29	1 17	205	53 8	085
	21	−0.1659	+ 160	+2.026	+ 104	8 6 43	23 58	+19.230	15 49 4	−7.015
	22	1590	140	2.010	98	8 1 48	22 36	256	45 1	6.944
	23	1519	102	1.995	91	7 56 45	21 8	283	40 59	870
	24	1448	+ 52	980	84	51 34	19 34	310	36 57	795
	25	1376	− 3	967	79	46 12	17 55	337	32 57	718
	26	−0.1303	− 53	+1.954	+ 77	7 40 43	16 12	+19.364	15 28 57	−6.639
	27	1229	− 95	943	78	35 5	14 29	392	24 58	558
	28	1154	− 124	933	83	29 20	12 49	419	21 0	475
	29	1078	− 134	924	89	23 28	11 17	447	17 3	391
	30	1002	− 124	916	95	17 29	9 52	475	13 7	304
5	1	−0.0925	− 94	+1.910	+ 99	7 11 22	8 33	+19.504	15 9 10	−6.216

月	日	世界時 0h f 長	f 短	g 長	g 短	G 長	G 短	h	H	i
		s	s 単位0.0001	″	″ 単位0.001	h m s	h m	″	h m s	″
5	1	− 0.0925	− 94	+ 1.910	+ 99	7 11 22	8 33	+ 19.504	15 9 10	− 6.216
	2	0847	− 49	904	97	7 5 9	7 17	532	5 16	6.126
	3	0768	+ 3	900	88	6 58 51	5 55	560	15 1 22	6.034
	4	0688	49	898	74	52 27	4 17	589	14 57 28	5.941
	5	0607	79	896	60	45 59	2 0	617	53 35	5.846
	6	− 0.0526	+ 84	+ 1.896	+ 57	6 39 26	22 59	+ 19.646	14 49 44	− 5.749
	7	0443	60	898	69	32 49	20 20	674	45 53	5.651
	8	0360	+ 15	901	85	26 9	18 27	703	42 3	5.551
	9	0276	− 40	905	95	19 27	16 57	731	38 13	5.450
	10	0191	− 88	911	95	12 43	15 31	760	34 25	5.347
	11	− 0.0105	− 116	+ 1.919	+ 87	6 5 57	13 56	+ 19.788	14 30 37	− 5.242
	12	− 0.0018	− 114	928	75	5 59 12	11 54	815	26 49	5.136
	13	+ 0.0070	− 81	939	69	52 26	9 20	843	23 2	5.029
	14	0158	− 24	951	75	45 42	6 48	870	19 16	4.920
	15	0248	+ 43	965	89	38 59	4 47	897	15 32	4.810
	16	+ 0.0338	+ 104	+ 1.980	+ 101	5 32 18	3 11	+ 19.924	14 11 47	− 4.699
	17	0429	148	1.996	108	25 39	1 46	950	8 3	4.587
	18	0521	165	2.014	108	19 4	0 25	19.976	4 20	4.473
	19	0614	155	034	104	12 33	23 3	20.001	14 0 38	4.358
	20	0707	122	055	98	5 6 6	21 38	026	13 56 56	4.242
	21	+ 0.0801	+ 73	+ 2.077	+ 89	4 59 43	20 8	+ 20.051	13 53 15	− 4.124
	22	0896	+ 17	101	83	53 25	18 31	075	49 35	4.006
	23	0991	− 37	127	79	47 12	16 48	098	45 55	3.886
	24	1087	− 82	153	77	41 4	15 2	121	42 16	3.766
	25	1184	− 114	181	79	35 3	13 18	143	38 37	3.644
	26	+ 0.1281	− 127	+ 2.210	+ 84	4 29 8	11 39	+ 20.165	13 34 59	− 3.521
	27	1379	− 121	241	89	23 19	10 8	186	31 22	3.398
	28	1478	− 95	272	94	17 36	8 45	207	27 45	3.273
	29	1578	− 54	305	95	11 58	7 26	227	24 8	3.148
	30	1678	− 4	339	91	6 28	6 6	246	20 32	3.022
	31	1778	+ 44	375	79	4 1 4	4 36	264	16 56	2.895
6	1	+ 0.1879	+ 78	+ 2.411	+ 66	3 55 47	2 38	+ 20.282	13 13 21	− 2.767
	2	1981	90	448	58	50 35	0 0	299	9 46	2.639
	3	2083	73	486	64	45 31	21 13	315	6 13	2.510
	4	2186	+ 34	525	79	40 32	19 5	331	13 2 38	2.380
	5	2289	− 21	565	92	35 40	17 25	346	12 59 5	2.250
	6	+ 0.2392	− 76	+ 2.606	+ 96	3 30 55	15 57	+ 20.360	12 55 32	− 2.119
	7	2496	− 115	648	93	26 15	14 26	373	51 59	1.987
	8	2601	− 126	690	83	21 42	12 39	386	48 26	1.855
	9	2705	− 106	734	75	17 14	10 27	397	44 53	1.722
	10	2810	− 57	777	75	12 52	8 0	408	41 22	1.589
	11	+ 0.2916	+ 8	+ 2.822	+ 83	3 8 36	5 47	+ 20.418	12 37 50	− 1.455
	12	3022	74	868	94	4 26	3 57	428	34 19	1.321
	13	3128	128	914	103	3 0 21	2 23	436	30 47	1.187
	14	3234	158	2.960	106	2 56 21	0 56	443	27 16	1.053
	15	3340	159	3.007	105	52 27	23 32	449	23 46	0.918
	16	+ 0.3446	+ 135	+ 3.055	+ 101	2 48 37	22 7	+ 20.455	12 20 15	− 0.783
	17	3553	91	103	94	44 53	20 37	459	16 45	0.648
	18	3660	+ 36	152	87	41 13	19 2	463	13 15	0.513
	19	3767	− 21	201	82	37 37	17 22	466	9 44	0.377
	20	3874	− 71	251	79	34 6	15 36	468	6 14	0.242
	21	+ 0.3980	− 108	+ 3.301	+ 79	2 30 39	13 49	+ 20.469	12 2 44	− 0.106
	22	4087	− 127	351	83	27 17	12 7	470	11 59 14	+ 0.030
	23	4194	− 125	402	88	23 58	10 32	469	55 44	0.165
	24	4301	− 103	453	93	20 44	9 4	468	52 14	0.301
	25	4408	− 63	504	95	17 33	7 42	465	48 44	0.437
	26	+ 0.4514	− 13	+ 3.555	+ 92	2 14 26	6 21	+ 20.462	11 45 14	+ 0.572
	27	4621	+ 38	607	84	11 23	4 52	458	41 44	0.707
	28	4727	78	659	74	8 24	3 4	453	38 13	0.842
	29	4833	97	711	65	5 28	0 47	447	34 43	0.977
	30	4939	89	764	66	2 2 35	22 10	440	31 13	1.111
7	1	+ 0.5045	+ 55	+ 3.816	+ 76	1 59 45	19 54	+ 20.432	11 27 42	+ 1.245

月	日	世界時 0h f 長	f 短	g 長	g 短	G 長	G 短	h	H	i
		s	s 単位0.0001	″	″ 単位0.001	h m s	h m	″	h m s	″
7	1	+ 0.5045	+ 55	+ 3.816	+ 76	1 59 45	19 54	+ 20.432	11 27 42	+ 1.245
	2	5150	+ 4	869	87	56 59	18 6	424	24 11	1.379
	3	5255	− 53	921	93	54 16	16 33	414	20 40	1.512
	4	5360	− 100	3.974	92	51 36	15 1	404	17 9	1.645
	5	5465	− 123	4.027	85	48 58	13 17	393	13 38	1.777
	6	+ 0.5569	− 115	+ 4.030	+ 77	1 46 24	11 13	+ 20.381	11 10 7	+ 1.909
	7	5673	− 79	133	74	43 52	8 54	368	6 34	2.040
	8	5776	− 21	187	80	41 23	6 39	355	11 3 2	2.171
	9	5879	+ 45	240	88	38 56	4 43	340	10 59 29	2.302
	10	5982	103	293	96	36 33	3 2	325	55 57	2.431
	11	+ 0.6084	+ 142	+ 4.346	+ 101	1 34 11	1 30	+ 20.309	10 52 23	+ 2.560
	12	6185	155	399	101	31 52	0 1	293	48 50	2.689
	13	6286	141	452	99	29 36	22 33	275	45 16	2.817
	14	6387	105	505	95	27 21	21 4	257	41 41	2.944
	15	6486	+ 53	558	90	25 10	19 31	238	38 7	3.070
	16	+ 0.6585	− 4	+ 4.611	+ 85	1 23 0	17 53	+ 20.219	10 34 32	+ 3.195
	17	6684	− 58	663	81	20 52	16 10	199	30 56	3.319
	18	6782	− 101	716	81	18 47	14 23	178	27 20	3.443
	19	6880	− 127	768	84	16 44	12 39	157	23 44	3.566
	20	6977	− 133	820	89	14 42	11 2	135	20 7	3.687
	21	+ 0.7073	− 116	+ 4.873	+ 95	1 12 43	9 33	+ 20.113	10 16 29	+ 3.808
	22	7168	− 80	925	97	10 46	8 10	090	12 51	3.927
	23	7263	− 31	4.976	95	8 51	6 48	067	9 13	4.045
	24	7357	+ 23	5.028	88	6 58	5 20	043	5 34	4.162
	25	7450	70	079	78	5 7	3 37	20.019	10 1 55	4.278
	26	+ 0.7543	+ 98	+ 5.130	+ 69	1 3 18	1 29	+ 19.994	9 58 14	+ 4.393
	27	7635	100	181	67	1 1 31	23 0	968	54 34	4.507
	28	7726	74	232	75	0 59 45	20 41	942	50 52	4.619
	29	7817	+ 28	282	85	58 2	18 49	916	47 10	4.730
	30	7907	− 28	333	91	56 20	17 13	890	43 28	4.840
	31	7995	− 79	383	89	54 40	15 40	863	39 44	4.949
8	1	+ 0.8083	− 110	+ 5.432	+ 83	0 53 1	13 56	+ 19.836	9 36 1	+ 5.056
	2	8170	− 113	482	74	51 24	11 52	808	32 16	5.162
	3	8257	− 86	531	71	49 49	9 29	781	28 31	5.266
	4	8342	− 36	580	76	48 16	7 12	753	24 44	5.369
	5	8427	+ 26	628	85	46 44	5 14	725	20 57	5.471
	6	+ 0.8511	+ 85	+ 5.677	+ 93	0 45 14	3 33	+ 19.697	9 17 10	+ 5.571
	7	8594	129	724	98	43 46	2 0	669	13 21	5.670
	8	8676	150	772	99	42 20	0 30	641	9 32	5.767
	9	8757	144	819	97	40 55	23 1	613	5 43	5.862
	10	8838	115	867	94	39 31	21 31	585	9 1 52	5.956
	11	+ 0.8918	+ 68	+ 5.913	+ 90	0 38 10	19 59	+ 19.557	8 58 1	+ 6.049
	12	8996	+ 13	5.960	86	36 50	18 23	528	54 9	6.140
	13	9074	− 43	6.006	84	35 31	16 42	500	50 16	6.229
	14	9151	− 90	051	83	34 14	14 57	472	46 22	6.316
	15	9228	− 124	097	85	32 59	13 14	444	42 28	6.401
	16	+ 0.9303	− 138	+ 6.142	+ 90	0 31 46	11 36	+ 19.416	8 38 34	+ 6.484
	17	9378	− 130	187	96	30 33	10 7	388	34 38	6.566
	18	9451	− 101	231	101	29 23	8 45	361	30 41	6.646
	19	9524	− 55	275	100	28 14	7 25	333	26 45	6.724
	20	9596	− 1	319	93	27 7	6 1	307	22 47	6.800
	21	+ 0.9668	+ 51	+ 6.362	+ 82	0 26 1	4 24	+ 19.280	8 18 49	+ 6.874
	22	9738	87	406	69	24 57	2 20	254	14 49	6.947
	23	9808	100	448	65	23 54	23 46	228	10 49	7.017
	24	9877	84	491	72	22 53	21 19	203	6 49	7.086
	25	0.9946	+ 44	533	83	21 53	19 21	179	8 2 46	7.152
	26	+ 1.0014	− 9	+ 6.575	+ 91	0 20 55	17 45	+ 19.155	7 58 44	+ 7.217
	27	0081	− 62	616	91	19 58	16 14	131	54 41	7.279
	28	0148	− 99	658	83	19 3	14 36	108	50 38	7.340
	29	0214	− 109	698	72	18 10	12 34	086	46 33	7.399
	30	0279	− 90	739	66	17 18	10 4	064	42 28	7.455
	31	0344	− 44	780	72	16 27	7 34	042	38 22	7.510
9	1	+ 1.0408	+ 16	+ 6.820	+ 84	0 15 38	5 31	+ 19.022	7 34 16	+ 7.562

世界時 0h

月	日	f 長 s	f 短 単位0.0001 s	g 長 ″	g 短 単位0.001 ″	G 長 h m s	G 短 h m	h ″	H h m s	i ″
9	1	+1.0408	+16	+6.820	+84	0 15 38	5 31	+19.022	7 34 16	+7.562
	2	0471	77	860	94	14 51	3 51	19.002	30 8	612
	3	0534	125	899	100	14 5	2 21	18.983	26 1	660
	4	0596	150	939	101	13 21	0 54	964	21 52	706
	5	0657	150	6.978	99	12 38	23 27	946	17 43	750
	6	+1.0718	+126	+7.017	+95	0 11 56	21 58	+18.930	7 13 33	+7.791
	7	0779	83	055	91	11 17	20 27	913	9 23	830
	8	0839	+30	094	87	10 38	18 53	898	5 13	867
	9	0899	−25	132	83	10 1	17 15	884	7 1 1	902
	10	0958	−75	170	81	9 26	15 32	870	6 56 50	934
	11	+1.1017	−113	+7.208	+83	0 8 52	13 49	+18.857	6 52 37	+7.964
	12	1076	−134	246	88	8 19	12 9	846	48 25	7.992
	13	1135	−136	283	94	7 48	10 38	835	44 11	8.018
	14	1193	−116	321	101	7 18	9 15	825	39 58	041
	15	1251	−77	358	102	6 50	7 58	816	35 44	062
	16	+1.1309	−26	+7.395	+97	0 6 23	6 40	+18.807	6 31 31	+8.080
	17	1366	+26	432	85	5 58	5 14	800	27 16	096
	18	1423	69	469	70	5 34	3 21	794	23 1	110
	19	1480	90	506	61	5 11	0 47	789	18 46	122
	20	1537	84	543	64	4 50	21 57	785	14 31	131
	21	+1.1594	+52	+7.580	+78	0 4 30	19 43	+18.782	6 10 15	+8.138
	22	1651	+2	617	91	4 12	18 3	780	5 59	142
	23	1708	−52	654	96	3 55	16 36	780	6 1 44	144
	24	1765	−95	691	89	3 39	15 5	780	5 57 27	144
	25	1821	−113	728	78	3 25	13 15	781	53 11	142
	26	+1.1878	−100	+7.765	+68	0 3 11	10 52	+18.783	5 48 55	+8.137
	27	1935	−58	802	70	3 0	8 11	787	44 38	130
	28	1992	+3	839	82	2 49	5 54	791	40 22	120
	29	2049	68	877	95	2 39	4 9	796	36 5	108
	30	2107	123	914	105	2 31	2 39	803	31 49	093
10	1	+1.2165	+157	+7.952	+108	0 2 24	1 15	+18.810	5 27 32	+8.076
	2	2223	163	7.990	106	2 18	23 51	818	23 16	057
	3	2281	142	8.028	101	2 13	22 26	827	18 59	035
	4	2339	103	066	95	2 9	20 58	838	14 43	8.011
	5	2398	+50	104	89	2 6	19 26	849	10 27	7.984
	6	+1.2458	−5	+8.143	+83	0 2 5	17 50	+18.861	5 6 10	+7.955
	7	2517	−57	182	79	2 4	16 9	874	5 1 55	924
	8	2577	−97	221	78	2 4	14 24	888	4 57 39	890
	9	2638	−123	261	82	2 6	12 40	903	53 24	854
	10	2699	−131	301	88	2 8	11 4	919	49 9	816
	11	+1.2761	−119	+8.341	+95	0 2 11	9 39	+18.936	4 44 55	+7.775
	12	2823	−89	382	100	2 15	8 22	954	40 40	732
	13	2886	−44	423	99	2 20	7 9	972	36 26	687
	14	2949	+6	464	89	2 25	5 50	18.991	32 12	639
	15	3013	51	506	74	2 32	4 14	19.012	27 59	589
	16	+1.3078	+79	+8.548	+58	0 2 39	1 57	+19.032	4 23 46	+7.537
	17	3143	81	591	56	2 47	22 50	054	19 33	482
	18	3209	57	634	69	2 55	20 9	076	15 22	426
	19	3276	+10	678	87	3 4	18 17	099	11 10	367
	20	3344	−45	722	99	3 14	16 50	123	6 59	305
	21	+1.3412	−95	+8.767	+99	0 3 24	15 25	+19.147	4 2 49	+7.242
	22	3481	−122	812	90	3 35	13 50	172	3 58 38	176
	23	3551	−119	858	78	3 46	11 47	197	54 29	108
	24	3622	−83	904	72	3 57	9 13	223	50 20	7.037
	25	3694	−23	951	79	4 9	6 43	249	46 11	6.965
	26	+1.3767	+48	+8.998	+94	0 4 22	4 42	+19.276	3 42 4	+6.890
	27	3840	113	9.046	106	4 34	3 5	303	37 56	814
	28	3914	158	095	113	4 47	1 39	330	33 50	735
	29	3989	174	144	114	5 0	0 17	358	29 43	654
	30	4066	162	194	110	5 14	22 54	387	25 38	572
	31	4143	125	245	103	5 27	21 29	415	21 32	487
11	1	+1.4221	+73	+9.296	+95	0 5 41	20 1	+19.444	3 17 28	+6.400

世界時 0h

月	日	f 長 s	f 短 単位0.0001 s	g 長 ″	g 短 単位0.001 ″	G 長 h m s	G 短 h m	h ″	H h m s	i ″
11	1	+1.4221	+73	+9.296	+95	0 5 41	20 1	+19.444	3 17 28	+6.400
	2	4300	+16	347	87	5 54	18 28	473	13 24	6.311
	3	4380	−38	400	79	6 8	16 48	503	9 21	6.220
	4	4461	−82	453	75	6 22	15 0	532	5 17	6.127
	5	4543	−111	507	76	6 35	13 10	561	3 1 16	6.032
	6	+1.4625	−123	+9.561	+81	0 6 49	11 27	+19.591	2 57 14	+5.935
	7	4709	−116	616	88	7 2	9 56	620	53 13	5.836
	8	4794	−91	671	94	7 15	8 36	650	49 13	5.735
	9	4880	−52	728	96	7 28	7 23	679	45 13	5.633
	10	4967	−6	785	91	7 41	6 9	709	41 14	5.529
	11	+1.5055	+39	+9.842	+79	0 7 54	4 44	+19.738	2 37 15	+5.423
	12	5143	71	901	63	8 6	2 50	768	33 17	5.316
	13	5233	81	9.960	53	8 18	23 58	797	29 20	5.207
	14	5324	64	10.019	60	8 30	20 53	826	25 23	5.096
	15	5416	+22	080	79	8 41	18 42	854	21 27	4.984
	16	+1.5508	−34	+10.140	+96	0 8 52	17 6	+19.883	2 17 32	+4.870
	17	5602	−90	202	104	9 2	15 43	911	13 37	4.754
	18	5697	−128	264	101	9 12	14 16	938	9 43	4.637
	19	5792	−138	327	91	9 22	12 33	965	5 49	4.519
	20	5889	−114	390	81	9 31	10 23	19.992	2 1 56	4.399
	21	+1.5986	−59	+10.454	+81	0 9 39	7 55	+20.018	1 58 3	+4.277
	22	6085	+13	518	90	9 47	5 38	044	54 11	4.154
	23	6184	86	583	103	9 55	3 47	069	50 19	4.030
	24	6284	144	648	112	10 1	2 12	094	46 28	3.904
	25	6384	175	714	116	10 8	0 45	118	42 37	3.777
	26	+1.6486	+175	+10.781	+116	0 10 13	23 22	+20.142	1 38 47	+3.649
	27	6589	146	848	111	10 18	21 59	165	34 57	3.520
	28	6692	97	916	102	10 23	20 33	187	31 8	3.389
	29	6796	+39	10.984	92	10 26	19 3	209	27 19	3.258
	30	6901	−19	11.053	83	10 29	17 25	230	23 29	3.125
12	1	+1.7007	−67	+11.122	+75	0 10 32	15 33	+20.250	1 19 41	+2.992
	2	7113	−100	191	73	10 33	13 44	270	15 53	2.857
	3	7220	−115	261	76	10 34	11 52	288	12 5	2.722
	4	7328	−112	331	82	10 35	10 13	306	8 18	2.585
	5	7436	−91	402	89	10 34	8 47	323	4 31	2.448
	6	+1.7545	−56	+11.473	+93	0 10 33	7 32	+20.339	1 0 44	+2.310
	7	7654	−11	544	92	10 31	6 18	355	0 56 58	2.171
	8	7764	+34	616	83	10 29	4 57	369	53 13	2.032
	9	7874	69	688	70	10 26	3 18	382	49 26	1.892
	10	7985	85	760	57	10 22	0 55	395	45 41	1.751
	11	+1.8097	+76	+11.832	+58	0 10 17	21 56	+20.407	0 41 56	+1.610
	12	8208	+40	905	72	10 12	19 25	418	38 10	1.469
	13	8320	−14	11.978	90	10 6	17 37	427	34 26	1.326
	14	8433	−73	12.051	102	9 59	16 9	436	30 40	1.183
	15	8546	−122	124	105	9 51	14 43	444	26 56	1.040
	16	+1.8659	−145	+12.197	+100	0 9 43	13 8	+20.451	0 23 11	+0.896
	17	8772	−136	271	90	9 34	11 16	456	19 27	0.752
	18	8885	−93	345	85	9 25	9 4	461	15 43	0.608
	19	8998	−27	418	87	9 15	6 46	465	11 58	0.464
	20	9112	+49	492	95	9 4	4 42	467	8 14	0.319
	21	+1.9226	+116	+12.566	+105	0 8 52	2 55	+20.469	0 4 30	+0.174
	22	9339	161	639	112	8 40	1 21	470	0 0 46	+0.029
	23	9453	175	713	114	8 27	23 52	470	23 57 2	−0.116
	24	9567	158	787	112	8 14	22 26	468	53 17	0.260
	25	9680	116	860	107	8 0	21 1	466	49 33	0.405
	26	+1.9794	+60	+12.934	+98	0 7 46	19 33	+20.463	23 45 49	−0.549
	27	1.9907	0	13.008	88	7 31	18 0	459	42 4	0.693
	28	2.0020	−53	081	79	7 15	16 16	453	38 20	0.837
	29	0133	−92	154	74	6 59	14 21	447	34 35	0.981
	30	0246	−113	227	74	6 42	12 23	439	30 50	1.125
	31	0359	−113	300	79	6 25	10 37	431	27 4	1.268
12	32	+2.0471	−95	+13.373	+87	0 6 7	9 5	+20.421	23 23 19	−1.411

恒星日日常數 (10恒星日間隔)

平均恒星時 6h 37m 11s =於ケル値　　昭和20年

世界時 月 日	τ 年	A	B	C	D	E s	P	Q
I 0.00	− 0.0020	− 6.418	+ 3.441	− 3.005	+ 20.206	−0.0025	− 0.891	− 0.157
9.97	+ 0.0254	5.722	3.262	6.228	19.311	24	851	326
19.95	0527	5.067	3.030	9.257	17.811	24	786	485
29.92	0800	4.467	2.762	11.988	15.757	23	696	629
II 8.89	+ 0.1073	− 3.929	+ 2.483	−14.339	+ 13.219	−0.0024	− 0.585	− 0.753
18.86	1346	3.454	2.217	16.240	10.278	24	455	855
III 0.84	+ 0.1619	− 3.033	+ 1.986	−17.635	+ 7.039	−0.0024	− 0.313	− 0.931
10.81	1892	2.651	1.807	18.487	3.600	25	160	978
20.78	2165	2.289	1.692	18.779	+ 0.069	26	− 0.003	996
30.75	2438	1.927	1.643	18.514	− 3.440	26	+ 0.154	985
IV 9.73	+ 0.2711	− 1.544	+ 1.654	−17.704	− 6.832	−0.0027	+ 0.307	− 0.945
19.70	2984	1.123	1.714	16.383	10.006	28	451	877
29.67	3257	0.652	1.804	14.601	12.873	28	581	783
V 9.65	+ 0.3530	− 0.126	+ 1.905	−12.412	− 15.362	−0.0028	+ 0.695	− 0.668
19.62	3803	+ 0.455	1.995	9.882	17.407	28	790	533
29.59	4076	1.085	2.056	7.088	18.957	27	861	383
VI 8.56	+ 0.4349	+ 1.752	+ 2.073	− 4.104	− 19.975	−0.0027	+ 0.909	− 0.222
18.54	4622	2.441	2.035	− 1.014	20.440	26	931	− 0.055
28.51	4895	3.134	1.938	+ 2.099	20.343	26	927	+ 0.114
VII 8.48	+ 0.5168	+ 3.816	+ 1.784	+ 5.152	− 19.685	−0.0025	+ 0.897	+ 0.279
18.45	5441	4.468	1.579	8.066	18.485	25	842	437
28.43	5714	5.080	1.338	10.760	16.777	24	763	582
VIII 7.40	+ 0.5987	+ 5.641	+ 1.076	+13.164	− 14.599	−0.0024	+ 0.664	+ 0.711
17.37	6260	6.149	0.813	15.209	12.007	24	545	820
27.34	6534	6.606	0.568	16.834	9.072	25	411	905
IX 6.32	+ 0.6807	+ 7.019	+ 0.359	+17.993	− 5.866	−0.0025	+ 0.265	+ 0.966
16.29	7080	7.403	0.202	18.642	− 2.477	26	+ 0.112	0.998
26.26	7353	7.774	0.106	18.759	+ 1.000	27	− 0.045	1.001
X 6.24	+ 0.7626	+ 8.152	+ 0.074	+18.326	+ 4.470	−0.0027	− 0.200	+ 0.975
16.21	7899	8.556	0.100	17.353	7.827	28	350	921
26.18	8172	9.005	0.173	15.857	10.968	28	489	839
XI 5.15	+ 0.8445	+ 9.511	+ 0.275	+13.874	+ 13.797	−0.0028	− 0.613	+ 0.732
15.13	8718	10.080	0.383	11.458	16.218	28	719	603
25.10	8991	10.710	0.474	8.681	18.151	28	803	456
XII 5.07	+ 0.9264	+ 11.394	+ 0.526	+ 5.623	+ 19.531	−0.0028	− 0.863	+ 0.295
15.04	9537	12.116	0.521	+ 2.382	20.305	27	896	+ 0.125
25.02	0.9810	12.854	0.449	− 0.939	20.445	26	901	− 0.049
34.99	1.0083	13.586	0.307	4.234	19.943	26	879	222
44.96	+ 1.0356	+ 14.289	+ 0.104	− 7.396	+ 18.816	−0.0025	− 0.829	− 0.387

上掲ノ恒星日日常數及 P,Q ハ1月0.0日ヨリ起算セル毎10恒星日ノ値ニシテ短週期章動ハ之ヲ含マズ。

FK3 番號	星名	等級	赤經 h m s	年差 s	固有運動 s	赤緯 ° ′ ″	年差 ″	固有運動 ″	固有名
1	α Andromedae	2.15	0 5 32.337	+3.101	+0.010	+28 47 12.72	+19.88	−0.16	Alpheratz
2	β Cassiopeiae	2.42	6 13.713	3.201	+0.067	+58 50 47.44	19.86	−0.18	Caph
3	ε Phoenicis	3.94	6 37.558	3.046	+0.013	−46 3 2.62	19.87	−0.17	
4	22 Andromedae	5.08	7 27.141	3.118	0.000	+45 45 58.68	20.04	0.00	
5	χ^2 Sculptoris	5.56	8 46.995	3.047	+0.001	−28 6 21.40	20.05	+0.03	
6	ϑ Sculptoris	5.19	0 8 56.404	+3.049	+0.013	−35 26 26.70	+20.16	+0.14	
7	γ Pegasi	2.87	10 23.999	3.089	0.000	+14 52 40.49	20.02	−0.01	Algenib
8	† Br 6 Cephei *m*	6.23	13 4.522	3.399	+0.004	+76 38 43.32	20.02	+0.01	
9	ε Ceti	3.75	16 37.501	3.056	−0.001	− 9 7 43.03	19.96	−0.03	
10	ζ Tucanae	4.34	17 13.130	3.127	+0.271	−65 11 52.18	21.16	+1.17	
11	β Hydri	2.90	0 22 53.652	+3.159	+0.691	−77 33 49.79	+20.27	+0.33	
12	α Phoenicis	2.44	23 34.209	2.966	+0.019	−42 36 15.89	19.55	−0.38	
13	12 Ceti	6.04	27 13.855	3.062	+0.001	− 4 15 39.37	19.90	0.00	
14	49 G. Ceti	5.23	27 37.746	2.999	−0.002	−24 5 30.04	19.92	+0.02	
15	λ^1 Phoenicis	4.88	28 46.113	2.894	+0.015	−49 6 26.63	19.92	+0.03	
16	κ Cassiopeiae	4.24	0 29 51.262	+3.408	0.000	+62 37 42.86	+19.88	0.00	
17	ζ Cassiopeiae	3.72	33 53.599	3.342	+0.002	+53 35 40.32	19.82	−0.01	
18	π Andromedae	4.44	33 56.163	3.205	+0.001	+33 25 0.67	19.82	0.00	
19	ε Andromedae	4.52	35 38.560	3.170	−0.018	+29 0 48.51	19.55	−0.25	
20	δ Andromedae	3.49	36 22.808	3.208	+0.010	+30 33 37.03	19.70	−0.09	
21	α Cassiopeiae	2.47	0 37 22.271	+3.404	+0.006	+56 14 9.89	+19.75	−0.03	Schedir
22	β Ceti	2.24	40 49.761	3.011	+0.017	−18 17 17.42	19.77	+0.04	Deneb Kaitos
23	η Phoenicis	4.53	40 53.361	2.697	0.000	−57 45 51.64	19.75	+0.02	
24	21 Cassiopeiae	5.59	41 58.589	3.958	−0.005	+74 41 16.27	19.69	−0.02	
25	ο Cassiopeiae	4.70	41 38.930	3.343	+0.002	+47 59 1.45	19.71	0.00	
26	λ^2 Sculptoris	5.97	0 41 32.699	+2.900	+0.020	−38 43 27.58	+19.84	+0.13	
27	ζ Andromedae	4.30	44 25.061	3.180	−0.007	+23 58 6.06	19.59	−0.08	
28	δ Piscium	4.55	45 49.546	3.113	+0.006	+ 7 17 9.97	19.60	−0.04	
29	Br 82 Cassiopeiae	5.45	47 22.066	3.639	+0.004	+63 56 54.85	19.61	−0.01	
30	φ^2 Ceti	5.24	47 22.260	3.005	−0.016	−10 56 24.44	19.40	−0.22	
31	λ Hydri	4.96	0 46 41.341	+2.084	+0.035	−75 13 21.34	+19.61	−0.02	
32	γ Cassiopeiae	2.25	53 22.194	3.620	+0.003	+60 25 9.87	19.50	0.00	
33	μ Andromedae	3.94	53 41.503	3.330	+0.013	+38 12 5.36	19.53	+0.04	
34	λ^2 Tucanae	5.34	52 57.439	2.242	+0.002	−69 49 27.15	19.47	−0.04	
35	α Sculptoris	4.39	0 55 57.417	2.890	+0.001	−29 39 15.52	19.46	+0.01	
36	ε Piscium	4.45	1 0 5.128	+3.114	−0.005	+ 7 35 40.16	+19.39	+0.03	
37	26 Ceti	6.07	0 59.023	3.088	+0.008	+ 1 4 20.93	19.30	−0.04	
38	†β Phoenicis *m*	3.35	3 37.960	2.677	−0.003	−47 0 45.93	19.28	+0.01	
39	ε Tucanae	5.32	5 8.237	2.377	+0.011	−62 4 7.02	19.24	0.00	
40	η Ceti	3.60	5 49.335	3.018	+0.015	−10 28 23.78	19.09	−0.13	
41	44 H. Cephei	5.68	1 7 26.374	+5.175	+0.033	+79 22 55.27	+19.18	0.00	
42	β Andromedae	2.37	6 38.665	3.360	+0.015	+35 19 46.19	19.09	−0.11	Mirach
43	τ Piscium	4.70	8 37.440	3.304	+0.005	+29 47 53.49	19.12	−0.03	
44	102 G. Sculptoris	5.91	10 13.485	2.763	+0.007	−38 8 50.89	19.08	−0.02	
45	υ Piscium	4.67	16 26.204	3.298	+0.002	+26 58 32.00	18.93	−0.01	
46	ψ Cassiopeiae	4.96	1 22 1.012	+4.236	+0.013	+67 50 37.59	+18.80	+0.03	
47	ϑ Ceti	3.83	21 16.373	2.999	−0.005	− 8 27 59.93	18.58	−0.22	
48	δ Cassiopeiae	2.80	22 11.857	3.924	+0.040	+59 57 0.73	18.72	−0.05	Ruchbah
49	γ Phoenicis	3.40	25 58.731	2.605	−0.002	−43 35 57.83	18.45	−0.20	
50	η Piscium	3.72	28 32.139	3.211	+0.002	+15 3 46.46	18.56	0.00	
51	40 Cassiopeiae	5.50	1 34 4.450	+4.789	−0.004	+72 45 38.63	+18.37	−0.01	
52	51 Andromedae	3.77	34 36.216	3.683	+0.007	+48 21 1.44	18.25	−0.11	
53	14 G. Hydri	6.06	33 15.942	0.399	−0.007	−78 47 1.43	18.29	−0.12	
54	α Eridani	0.60	35 40.116	2.235	+0.013	−57 30 56.12	18.30	−0.02	Achernar (水委)
55	43 Cassiopeiae	5.54	38 14.145	4.441	+0.009	+67 45 57.20	18.23	0.00	
56	ν Piscium	4.68	1 38 33.940	+3.122	−0.002	+ 5 12 36.00	+18.22	+0.01	
57	φ Persei	4.19	40 11.940	3.760	+0.003	+50 24 45.20	18.15	−0.01	
58	129 G. Sculptoris	5.64	39 37.507	2.644	−0.004	−37 6 33.13	18.16	−0.02	
59	τ Ceti	3.65	41 30.726	2.787	−0.119	−16 13 35.30	18.97	+0.86	
60	ο Piscium	4.50	1 42 29.128	+3.168	+0.005	+ 8 52 54.13	+18.13	+0.05	

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			h m s	s	s	° ′ ″	″	″	
61	ε Sculptoris	5.39	1 43 4.201	+2.810	+0.012	−25 19 36.40	+18.00	−0.05	
62	ζ Ceti	3.92	48 44.639	2.961	+0.002	−10 36 21.67	17.80	−0.03	
63	ε Cassiopeiae	3.44	50 24.754	4.314	+0.004	+63 24 1.15	17.74	−0.02	
64	α Trianguli	3.58	49 56.335	3.420	+0.001	+29 18 42.36	17.55	−0.23	
65	ξ Piscium	4.84	50 42.306	3.106	+0.001	+ 2 55 0.58	17.78	+0.03	
66	β Arietis	2.72	1 51 35.765	+3.314	+0.007	+20 32 24.03	+17.61	−0.11	Sheratan
67	ψ Phoenicis	4.41	51 26.550	2.405	−0.008	−46 34 16.97	17.64	−0.08	
68	χ Eridani	3.73	53 49.146	2.335	+0.073	−51 52 55.23	17.92	+0.30	
69	η^2 Hydri	4.72	53 32.310	1.520	+0.013	−67 55 2.48	17.72	+0.09	
70	50 Cassiopeiae	4.06	58 41.479	5.119	−0.010	+72 9 23.65	17.44	+0.03	
71	υ Ceti	4.18	1 57 24.769	+2.827	+0.009	−21 20 36.75	+17.45	−0.02	
72	α Hydri	3.02	1 57 2.231	1.891	+0.037	−61 50 12.68	17.53	+0.04	
73	γ Andromedae *pr*	2.28	2 0 30.770	3.683	+0.004	+42 4 0.65	17.29	−0.05	Almach
74	α Arietis	2.23	4 4.004	3.382	+0.014	+23 12 11.89	17.03	−0.14	Hamal
75	β Trianguli	3.08	6 15.723	3.570	+0.012	+34 43 41.33	17.04	−0.04	
76	55 Cassiopeiae	6.15	2 10 8.150	+4.706	−0.002	+66 16 4.89	+16.90	0.00	
77	Br 299 Andromedae	5.40	9 55.961	3.990	+0.037	+50 48 41.43	16.74	−0.17	
78	μ Fornacis	5.24	10 29.157	2.642	+0.001	−30 58 51.67	16.89	+0.01	
79	γ Trianguli	4.07	14 2.164	3.567	+0.003	+33 35 38.25	16.67	−0.04	
80	67 Ceti	5.70	14 14.286	2.993	+0.006	− 6 40 28.98	16.60	−0.11	
81	ϑ Arietis	5.69	2 15 3.636	+3.338	−0.001	+19 38 51.87	+16.66	0.00	
82	φ Eridani	3.78	14 32.673	2.144	+0.010	−51 45 57.83	16.67	−0.02	
83	κ Fornacis	5.37	20 1.523	2.746	+0.015	−24 3 55.47	16.36	−0.05	
84	λ Horologii	5.47	23 21.534	1.678	−0.010	−60 33 27.34	16.12	−0.12	
85	ξ^2 Ceti	4.34	25 13.838	3.190	+0.003	+ 8 12 52.49	16.15	0.00	
86	κ Eridani	4.44	2 24 58.154	+2.199	+0.002	−47 56 59.89	+16.16	0.00	
87	36 H. Cassiopeiae	5.34	32 45.192	5.699	−0.008	+72 34 46.73	15.77	+0.02	
88	λ^1 Fornacis	5.88	30 49.377	2.501	−0.002	−34 53 27.92	15.84	−0.02	
89	ν Arietis	5.36	35 41.223	+3.407	−0.001	+21 43 29.07	15.58	−0.01	
90	μ Hydri	5.29	32 47.243	−1.273	+0.046	−79 20 58.49	15.72	−0.04	
91	δ Ceti	4.04	2 36 39.608	+3.075	+0.001	+ 0 5 32.44	+15.54	0.00	
92	Br 366 Cassiopeiae	5.84	40 3.692	5.160	+0.002	+67 35 33.80	15.32	−0.03	
93	ϑ Persei	4.22	40 25.787	4.093	+0.034	+48 59 50.23	15.25	−0.08	
94	35 Arietis	4.58	40 13.043	3.521	+0.001	+27 28 27.75	15.34	0.00	
95	ε Hydri	4.26	38 44.184	0.924	+0.017	−68 30 7.76	15.44	+0.02	
96	†γ Ceti	3.58	2 40 26.855	+3.109	−0.010	+ 3 0 18.25	+15.18	−0.15	
97	π Ceti	4.39	41 30.195	2.855	−0.001	−14 5 26.33	15.26	−0.01	
98	μ Ceti	4.36	41 57.881	3.243	+0.019	+ 9 52 53.94	15.21	−0.03	
99	η Persei	3.93	46 40.037	4.376	+0.002	+55 40 7.75	14.96	−0.01	
100	41 Arietis	3.68	46 44.374	3.532	+0.005	+27 2 6.24	14.85	−0.11	
101	β Fornacis	4.50	2 46 47.289	+2.511	+0.007	−32 38 9.41	+15.13	+0.16	
102	τ^2 Eridani	4.81	48 32.546	2.721	−0.004	−21 13 47.20	14.84	−0.02	
103	τ Persei	4.06	50 20.590	4.254	0.000	+52 32 20.13	14.75	0.00	
104	η Eridani	4.05	53 44.304	2.931	+0.005	− 9 6 57.41	14.34	−0.21	
105	47H. Cephei	5.66	58 41.186	7.988	−0.014	+79 12 15.13	14.26	+0.01	
106	ϑ Eridani *pr*	3.42	2 56 10.497	+2.275	−0.005	−40 31 27.02	+14.43	+0.03	Acamar
107	α Ceti	2.82	2 59 24.068	3.136	−0.001	+ 3 52 30.54	14.13	−0.07	Menkar
108	γ Persei	3.08	3 0 47.861	4.345	0.000	+53 17 33.72	14.12	0.00	
109	ρ Persei	3.3-4.1 Var.	1 38.568	3.845	+0.011	+38 37 42.99	13.97	−0.10	
110	μ Horologii	5.16	2 18.843	1.414	−0.010	−59 57 1.50	13.98	−0.05	
111	β Persei	2.2-3.5 Var.	3 4 34.845	+3.904	+0.001	+40 44 43.09	+13.89	0.00	Algol
112	ε Persei	4.17	5 5.057	4.330	+0.130	+49 24 17.89	13.78	−0.08	
113	ϑ Hydri	5.52	2 7.671	0.125	+0.006	−72 7 1.80	14.06	+0.02	
114	δ Arietis	4.53	8 28.727	3.431	+0.011	+19 31 12.19	13.63	0.00	
115	48H. Cephei	5.50	13 15.849	7.609	+0.020	+77 32 8.40	13.27	−0.05	
116	94 Ceti	5.14	3 9 57.848	+3.062	+0.013	− 1 24 2.04	+13.48	−0.06	
117	†α Fornacis	3.95	9 44.004	2.549	+0.025	−29 12 10.30	14.20	+0.65	
118	38 G. Horologii	5.72	11 9.333	1.519	+0.001	−57 31 36.59	13.48	+0.02	
119	82 G. Eridani	4.30	17 43.863	2.396	+0.279	−43 16 44.39	13.79	+0.75	
120	α Persei	1.90	3 20 23.030	+4.284	+0.003	+49 40 1.89	+12.83	−0.02	Marfak

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			h m s	s	s	° ′ ″	″	″	
121	ο Tauri	3.80	3 21 50.979	+3.229	−0.005	+ 8 50 12.05	+12.69	−0.07	
122	2 H. Camelopardalis	4.42	24 35.750	4.858	0.000	+59 45 2.30	12.57	0.00	
123	ξ Tauri	3.75	24 11.068	3.252	+0.004	+ 9 32 32.50	12.57	−0.03	
124	σ Persei	4.55	26 41.129	4.230	+0.001	+47 48 25.71	12.45	+0.02	
125	5 Tauri	4.28	27 49.946	3.313	+0.002	+12 44 53.58	12.35	0.00	
126	κ Reticuli	4.80	3 28 24.665	+1.047	+0.055	−63 7 51.16	+12.69	+0.38	
127	ε Eridani	3.81	30 20.223	2.827	−0.066	− 9 38 35.70	12.20	+0.02	
128	45 G. Horologii	5.60	30 56.155	1.788	+0.008	−50 33 52.18	12.22	+0.09	
129	Grb 716 Camelopardalis	5.32	37 21.632	5.205	−0.003	+63 2 26.30	11.70	+0.02	
130	110 G. Eridani	4.58	35 7.142	2.153	−0.001	−40 27 14.71	11.82	−0.02	
131	δ Persei	3.10	3 38 59.886	+4.272	+0.003	+47 36 48.72	+11.53	−0.03	
132	†ο Persei	3.94	40 51.785	3.763	+0.001	+32 6 56.37	11.42	−0.01	
133	δ Fornacis	4.93	40 3.548	2.386	0.000	−32 6 46.75	11.51	+0.02	
134	ν Persei	3.93	41 26.910	4.077	−0.001	+42 24 23.70	11.39	0.00	
135	δ Eridani	3.72	40 36.676	2.875	−0.006	− 9 56 54.05	12.20	+0.75	
136	17 Tauri	3.81	3 41 36.243	+3.563	+0.001	+23 56 31.18	+11.34	−0.04	
137	24 Eridani	5.09	41 42.709	3.048	0.000	− 1 20 6.93	11.37	0.00	
138	γ Camelopardalis	4.67	44 30.918	6.330	+0.004	+71 9 56.02	11.13	−0.04	
139	η Tauri	2.96	44 12.590	3.567	+0.002	+23 56 11.82	11.15	−0.04	Alcyone
140	τ^6 Eridani	4.33	44 28.812	2.581	−0.012	−23 24 39.68	10.65	−0.52	
141	β Reticuli	3.80	3 43 30.151	+0.752	+0.048	−64 58 46.56	+11.33	+0.08	
142	27 Tauri	3.80	45 53.191	3.568	+0.001	+23 53 12.54	11.03	−0.04	
143	138 G. Eridani	4.24	47 23.662	2.245	−0.004	−36 21 56.57	10.92	−0.04	
144	ζ Persei	2.91	50 40.109	3.772	+0.001	+31 43 19.02	10.72	−0.01	
145	†9 H. Camelopardalis	5.22	52 25.771	+5.116	−0.001	+60 57 0.17	10.58	−0.01	
146	γ Hydri	3.17	3 48 4.126	−0.930	+0.013	−74 24 28.56	+11.03	+0.12	
147	ε Persei	2.96	54 9.310	+4.027	+0.002	+39 51 10.33	10.43	−0.03	
148	ξ Persei	4.05	55 23.364	3.894	0.000	+35 38 4.62	10.37	0.00	
149	γ Eridani	3.19	55 27.688	2.800	+0.004	−13 39 49.35	10.25	−0.11	
150	λ Tauri	3.8-4.1 Var.	3 57 37.761	3.324	0.000	+12 20 11.07	10.19	−0.01	
151	ν Tauri	3.94	4 0 13.625	+3.192	0.000	+ 5 50 17.52	+10.00	0.00	
152	48 Persei	4.03	4 39.533	4.356	+0.002	+47 34 3.66	9.64	−0.03	
153	174 G. Eridani	5.57	3 21.334	2.473	+0.015	−27 48 3.97	9.87	+0.11	
154	o^1 Eridani	4.14	9 10.702	2.929	+0.001	− 6 53 46.59	9.40	+0.09	
155	α Horologii	3.83	12 10.626	1.988	+0.003	−42 25 44.44	8.88	−0.20	
156	α Reticuli	3.36	4 13 42.659	+0.773	+0.006	−62 36 39.95	+ 9.02	+0.05	
157	γ Doradus	4.36	14 34.978	1.572	+0.011	−51 37 28.24	9.09	+0.19	
158	54 Persei	5.10	16 49.986	3.896	−0.002	+34 26 8.65	8.71	−0.01	
159	γ Tauri	3.86	16 39.582	3.415	+0.008	+15 29 47.10	8.71	−0.02	
160	† 41 o^4 Eridani *m*	3.59	15 48.680	2.270	+0.005	−33 55 53.40	8.80	0.00	
161	212 G. Eridani	5.31	4 18 14.964	+2.618	+0.002	−20 46 10.55	+ 8.60	−0.01	
162	δ Tauri	3.93	19 45.548	3.461	+0.008	+17 24 54.55	8.46	−0.03	
163	η Reticuli	5.18	21 17.312	0.649	+0.013	−63 30 59.75	8.54	+0.17	
164	ε Tauri	3.63	25 24.068	3.504	+0.008	+19 3 36.45	8.00	−0.03	
165	1 Camelopardalis *sq*	5.86	27 39.793	+4.752	0.000	+53 47 36.77	7.86	0.00	
166	δ Mensae	5.62	4 21 38.650	−4.054	+0.013	−80 20 40.56	+ 8.41	+0.07	
167	δ Caeli	5.16	29 8.918	+1.838	0.000	−45 4 15.10	7.74	0.00	
168	α Tauri	1.06	32 45.688	3.443	+0.005	+16 24 1.27	7.26	−0.19	Aldebaran
169	ν Eridani	4.12	33 34.114	2.998	0.000	− 3 27 48.43	7.38	0.00	
170	o^2 Eridani	3.88	33 24.638	2.333	−0.004	−30 40 25.75	7.38	−0.01	
171	α Doradus	3.47	4 32 48.301	+1.297	+0.006	−55 9 28.75	+ 7.45	0.00	
172	53 Eridani	3.98	35 59.599	2.748	−0.005	−14 24 36.83	7.05	−0.16	
173	Grb 848 Camelopardalis	6.04	41 23.684	8.074	+0.010	+75 50 41.89	6.60	−0.13	
174	τ Tauri	4.33	38 56.398	3.601	0.000	+22 51 11.44	6.93	−0.01	
175	4 Camelopardalis	5.35	43 24.733	4.999	+0.007	+56 39 43.06	6.43	−0.15	
176	μ Eridani	4.18	4 42 44.995	+3.000	+0.001	− 3 21 14.31	+ 6.62	−0.01	
177	μ Mensae	5.69	43 36.253	−0.593	+0.002	−71 1 55.80	6.59	+0.03	
178	α Camelopardalis	4.38	48 33.975	+5.965	0.000	+66 15 8.07	6.15	+0.01	
179	π^4 Orionis	3.78	48 16.446	3.196	0.000	+ 5 30 45.56	6.17	0.00	
180	π^5 Orionis	3.87	4 51 23.032	+3.125	0.000	+ 2 21 7.84	+ 5.91	0.00	

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181	ε Aurigae	2.90	4 53 24.448	+3.908	0.000	+33 4 51.38	+ 5.72	−0.02	
182	β Camelopardalis	4.22	58 30.916	5.338	−0.001	+60 21 52.24	5.30	−0.01	
183	ε Aurigae	3.1-3.8 Var.	58 1.010	4.306	0.000	+43 44 38.61	5.35	−0.01	
184	ι Tauri	4.70	4 59 48.289	3.587	+0.005	+21 30 47.53	5.16	−0.04	
185	η Aurigae	3.28	5 2 39.172	4.208	+0.003	+41 9 44.04	4.89	−0.07	
186	ε Leporis	3.29	5 3 7.879	+2.540	+0.002	−22 26 36.97	+ 4.85	−0.07	
187	η^2_{Pa} Pictoris	4.92	3 32.340	1.553	+0.006	−49 39 5.77	4.89	0.00	
188	β Eridani	2.92	5 8.626	2.950	−0.006	− 5 9 21.69	4.67	−0.08	
189	ζ Doradus	4.76	4 33.857	1.028	−0.005	−57 32 50.18	4.92	+0.12	
190	λ Eridani	4.34	6 30.747	2.872	0.000	− 8 49 23.40	4.63	0.00	
191	19 H. Camelopardalis	5.16	5 13 27.135	+9.888	−0.029	+79 10 22.48	+ 4.20	+0.16	
192	μ Aurigae	4.78	9 39.618	4.106	−0.002	+38 25 16.81	4.29	−0.08	
193	α Aurigae	0.21	12 37.310	4.433	+0.008	+45 56 39.71	3.69	−0.42	Capella(天廂)
194	β Orionis	0.34	11 53.584	2.884	0.000	− 8 15 49.44	4.17	0.00	Rigel
195	τ Orionis	3.68	14 56.039	+2.913	−0.001	− 6 54 8.55	3.91	−0.01	
196	ϑ Doradus	4.78	5 13 47.569	−0.048	+0.001	−67 14 50.15	+ 4.05	+0.04	
197	o Columbae	4.91	15 29.966	+2.164	+0.007	−34 56 52.58	3.53	−0.34	
198	12 G. Columbae	5.75	17 12.093	2.392	+0.001	−27 25 26.84	3.72	0.00	
199	ζ Pictoris	5.52	18 0.997	1.471	+0.001	−50 39 51.44	3.89	+0.23	
200	† η Orionis *m*	3.44	21 42.595	3.017	0.000	− 2 26 46.14	3.33	0.00	
201	γ Orionis	1.70	5 22 10.747	+3.218	−0.001	+ 6 18 5.26	+ 3.28	−0.01	Bellatrix
202	β Tauri	1.78	22 48.751	3.793	+0.002	+28 33 46.47	3.06	−0.18	El Nath
203	17 Camelopardalis	5.75	24 58.068	5.667	−0.001	+63 1 27.04	3.05	0.00	
204	β Leporis	2.96	25 53.254	2.571	0.000	−20 48 7.33	2.88	−0.09	
205	Grb 966 Camelopardalis	6.36	32 21.389	8.026	−0.002	+75 0 41.52	2.43	+0.03	
206	δ Orionis	2.48	5 29 11.696	+3.065	0.000	− 0 20 17.66	+ 2.69	0.00	
207	α Leporis	2.69	30 18.177	2.646	0.000	−17 51 36.99	2.59	0.00	Arneb
208	φ^1 Orionis	4.53	31 47.945	3.294	0.000	+ 9 27 14.44	2.46	0.00	
209	ι Orionis	2.87	32 44.462	2.935	0.000	− 5 56 39.94	2.38	0.00	
210	ε Orionis	1.75	33 25.257	3.045	0.000	− 1 14 7.67	2.32	0.00	Alnilam
211	ζ Tauri	3.00	5 34 21.334	+3.586	0.000	+21 6 38.90	+ 2.21	−0.02	
212	β Doradus	3.81	33 8.671	0.520	−0.001	−62 31 31.86	2.35	+0.01	
213	† σ Orionis *m*	3.78	35 58.992	+3.012	0.000	− 2 37 48.88	2.10	0.00	
214	γ Mensae	5.06	34 3.077	−2.376	+0.031	−76 22 52.69	2.56	+0.29	
215	α Columbae	2.75	37 39.347	+2.173	0.000	−34 6 8.20	1.92	−0.03	Phact
216	o Aurigae	5.52	5 41 38.189	+4.649	−0.001	+49 48 16.49	+ 1.60	0.00	
217	γ Leporis	3.80	42 10.165	2.502	−0.021	−22 27 54.11	1.19	−0.37	
218	130 Tauri	5.51	44 13.660	3.498	0.000	+17 42 36.87	1.37	−0.01	
219	ζ Leporis	3.67	44 27.713	2.719	−0.001	−14 50 28.06	1.35	−0.01	
220	κ Orionis	2.20	45 8.799	2.846	0.000	− 9 41 15.86	1.29	0.00	
221	ν Aurigae	4.18	5 47 40.546	+4.158	−0.001	+39 8 4.14	+ 1.08	+0.01	
222	δ Leporis	3.90	48 57.310	2.581	+0.017	−20 52 56.75	0.32	−0.65	
223	β Columbae	3.22	49 1.144	2.115	+0.004	−35 47 16.33	1.36	+0.40	
224	α Orionis	0.92	52 11.580	3.249	+0.002	+ 7 23 54.59	0.69	+0.01	Betelgeuse
225	δ Aurigae	3.88	54 59.819	4.941	+0.010	+54 16 58.63	0.31	−0.13	
226	η Leporis	3.77	5 53 53.906	+2.733	−0.003	−14 10 34.95	+ 0.67	+0.14	
227	β Aurigae	2.07	55 29.580	4.402	−0.005	+44 56 38.73	0.39	0.00	Menkalinan
228	† ϑ Aurigae	2.71	55 58.166	4.092	+0.004	+37 12 38.73	0.27	−0.08	
229	η Columbae	4.03	5 57 27.692	1.837	+0.001	−42 49 2.38	+ 0.20	−0.02	
230	66 Orionis	5.70	6 2 3.902	3.170	0.000	+ 4 9 48.12	− 0.19	−0.01	
231	1 G. Puppis	6.22	6 2 53.337	+1.727	−0.009	−45 2 7.50	− 0.01	+0.25	
232	ν Orionis	4.40	4 25.824	3.426	0.000	+14 46 36.33	0.41	−0.02	
233	36 Camelopardalis	5.39	7 19.103	6.037	+0.001	+65 43 56.91	0.67	−0.03	
234	22 H. Camelopardalis	4.73	12 47.308	6.613	+0.001	+69 20 33.44	1.23	−0.10	
235	δ Pictoris	4.84	9 13.526	1.168	−0.002	−54 57 20.26	0.79	+0.01	
236	† η Geminorum	3.2-4.2 Var.	6 11 33.400	+3.622	−0.005	+22 31 28.50	− 1.03	−0.01	
237	2 Lyncis	4.42	14 46.253	5.294	−0.001	+59 2 0.48	1.27	+0.02	
238	κ Columbae	4.51	14 35.594	+2.134	−0.001	−35 7 15.97	1.19	+0.08	
239	α Mensae	5.14	11 52.899	−1.786	+0.030	−74 44 6.41	1.25	−0.22	
240	ζ Canis Majoris	3.10	6 18 12.028	+2.304	0.000	−30 2 15.79	− 1.59	0.00	

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241	μ Geminorum	3.19	6 19 37.951	+3.630	+0.004	+22 32 37.13	− 1.83	−0.11	
242	ψ^1 Aurigae	5.10	20 39.778	4.621	0.000	+49 19 5.84	1.81	0.00	
243	β Canis Majoris	1.99	20 16.590	2.642	0.000	−17 55 38.37	1.78	0.00	
244	8 ε Monocerotis	4.48	20 51.162	3.180	−0.001	+ 4 37 20.77	1.81	+0.01	
245	α Carinae	−0.86	22 43.808	1.332	+0.002	−52 39 53.43	1.96	+0.03	Canopus (老人)
246	10 Monocerotis	4.98	6 25 14.534	+2.963	−0.001	− 4 43 35.75	− 2.20	0.00	
247	8 Lyncis	6.05	32 40.061	5.484	−0.029	+61 31 56.07	3.13	−0.28	
248	23 H. Camelopardalis	5.60	36 53.111	10.249	−0.031	+79 37 45.42	3.83	−0.61	
249	ξ^2 Canis Majoris	4.54	32 44.993	2.515	+0.001	−22 55 11.83	2.84	+0.01	
250	51 Aurigae	5.71	34 50.899	4.157	−0.002	+39 26 28.84	3.15	−0.11	
251	γ Geminorum	1.93	6 34 32.071	+3.466	+0.003	+16 26 52.64	− 3.06	−0.04	
252	ν Puppis	3.18	36 4.611	1.836	−0.001	−43 8 48.05	3.15	0.00	
253	† S Monocerotis	4.68	37 56.906	3.304	0.000	+ 9 56 53.63	3.31	−0.01	
254	ε Geminorum	3.18	40 32.903	3.691	0.000	+25 11 14.66	3.55	−0.02	
255	ψ^5 Aurigae	5.34	42 46.583	4.325	0.000	+43 38 3.57	3.56	+0.16	
256	ξ Geminorum	3.40	6 42 12.129	+3.367	−0.003	+12 57 23.60	− 3.87	−0.19	
257	α Canis Majoris *cg*	−1.58	42 43.511	2.643	−0.037	−16 38 21.72	4.93	−1.21	Sirius (天狼)
258	18 Monocerotis	4.70	44 59.530	3.128	−0.001	+ 2 28 26.09	3.93	−0.01	
259	43 Camelopardalis	5.13	47 47.059	6.471	0.000	+68 57 19.50	4.15	0.00	
260	24 H. Camelopardalis	4.75	52 4.493	8.756	+0.021	+77 3 6.51	4.53	−0.01	
261	ϑ Geminorum	3.64	6 49 9.900	+3.955	0.000	+34 1 46.21	− 4.32	−0.05	
262	α Pictoris	3.30	47 37.623	0.616	−0.011	−61 52 54.80	3.87	+0.27	
263	τ Puppis	2.83	48 34.200	+1.488	+0.003	−50 32 53.89	4.29	−0.07	
264	ζ Mensae	5.64	44 39.621	−4.986	−0.002	−80 45 23.96	3.82	+0.06	
265	† 15 Lyncis *m*	4.54	52 31.146	+5.196	−0.001	+58 29 50.43	4.69	−0.14	
266	ϑ Canis Majoris	4.25	6 51 38.019	+2.788	−0.010	−11 58 6.07	− 4.49	−0.01	
267	ι Volantis	5.52	52 5.076	−0.686	−0.001	−70 53 42.86	4.50	+0.02	
268	ε Canis Majoris	1.63	6 56 27.805	+2.353	0.000	−28 53 45.76	4.89	0.00	Adhara
269	ζ Geminorum	3.7-4.1 Var.	7 0 50.834	3.559	−0.001	+20 39 9.82	5.27	0.00	
270	o^2 Canis Majoris	3.12	0 43.621	2.506	0.000	−23 45 6.13	5.25	0.00	
271	γ Canis Majoris	4.07	7 1 16.158	+2.715	0.000	−15 33 2.30	− 5.31	−0.01	
272	27 G. Carinae	5.30	3 16.762	1.117	−0.001	−56 39 56.13	5.46	0.00	
273	δ Canis Majoris	1.98	6 9.243	2.440	0.000	−26 18 16.73	5.70	0.00	
274	63 Aurigae	5.07	7 52.474	4.127	+0.004	+39 24 43.98	5.85	0.00	
275	1 Puppis	4.47	10 59.457	1.710	−0.014	−46 39 59.94	6.01	+0.10	
276	64 Aurigae	5.75	7 14 12.903	+4.172	−0.002	+40 58 59.05	− 6.37	+0.01	
277	λ Geminorum	3.65	14 55.955	3.448	−0.004	+16 38 23.58	6.48	−0.04	
278	π Puppis	2.74	15 11.962	2.119	−0.001	−36 59 51.19	6.45	+0.01	
279	δ Geminorum	3.51	16 50.352	3.583	−0.002	+22 5 7.19	6.61	−0.01	
280	19 Lyncis *sq*	5.61	18 23.181	+4.896	−0.001	+55 23 14.44	6.76	−0.03	
281	δ Volantis	4.02	7 16 51.803	−0.029	−0.001	−67 51 23.61	− 6.60	0.00	
282	ι Geminorum	3.89	22 18.743	+3.727	−0.009	+27 54 32.92	7.14	−0.09	
283	η Canis Majoris	2.43	21 55.107	2.373	−0.001	−29 11 40.80	7.01	+0.01	
284	Grb 1308 Camelopardalis	5.80	25 10.458	6.244	−0.002	+68 34 51.51	7.32	−0.04	
285	β Canis Minoris	3.09	24 10.037	3.254	−0.004	+ 8 24 6.16	7.24	−0.04	
286	ρ Geminorum	4.18	7 25 34.548	+3.859	+0.012	+31 53 44.21	− 7.14	+0.17	
287	α Geminorum *cg*	1.99 2.85	31 5.520	3.830	−0.014	+32 0 38.74	7.86	−0.10	Castor
288	108 G. Puppis	4.52	31 41.808	2.568	−0.004	−22 10 34.31	7.77	+0.03	
289	25 Monocerotis	5.17	34 32.573	2.983	−0.005	− 3 59 12.49	8.02	+0.02	
290	127 G.Puppis	4.62	35 19.891	2.220	−0.003	−34 50 37.13	8.08	+0.02	
291	α Canis Minoris *cg*	0.48	7 36 25.411	+3.140	−0.047	+ 5 22 2.73	− 9.22	−1.03	Procyon
292	24 Lyncis	4.96	38 21.822	5.077	−0.005	+58 50 29.03	8.40	−0.05	
293	26 α Monocerotis	4.07	38 37.134	2.867	−0.005	− 9 25 17.58	8.39	−0.02	
294	κ Geminorum	3.68	41 7.750	3.622	−0.002	+24 31 53.72	8.62	−0.05	
295	β Geminorum	1.21	41 57.161	3.671	−0.047	+28 9 38.52	8.68	−0.05	Pollux
296	π Geminorum	5.29	7 43 57.788	+3.869	−0.001	+33 33 8.79	− 8.82	−0.03	
297	ζ Volantis	3.89	42 30.641	−0.736	+0.006	−72 28 27.35	8.65	+0.02	
298	† 9 Puppis *m*	5.34	49 13.437	+2.778	−0.004	−13 45 3.07	9.54	−0.34	
299	26 Lyncis	5.69	50 42.792	4.369	−0.005	+47 42 32.97	9.32	0.00	
300	Grb 1374 Camelopardalis	5.56	7 53 39.147	+7.186	−0.003	+74 4 5.14	− 9.58	−0.03	

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301	213 G. Puppis	3.76	7 50 19.478	+2.062	−0.002	−40 25 58.74	− 9.28	0.00	
302	53 Camelopardalis	6.00	57 1.276	5.124	−0.007	+60 28 37.36	9.82	−0.02	
303	κ Carinae	3.60	55 22.775	1.525	−0.004	−52 50 2.25	9.64	+0.03	
304	27 Monocerotis	5.06	7 56 59.247	2.997	−0.004	− 3 31 41.83	9.80	0.00	
305	κ Geminorum	5.04	8 0 8.570	3.685	−0.002	+27 57 0.46	10.08	−0.05	
306	ζ Puppis	2.27	8 1 38.987	+2.109	−0.003	−39 50 49.90	−10.13	+0.01	
307	27 Lyncis	4.87	4 19.721	4.514	−0.007	+51 40 1.70	10.36	−0.01	
308	ρ Puppis	2.88	5 12.048	2.555	−0.006	−24 8 40.34	10.36	+0.05	
309	γ Velorum	2.22	7 50.207	1.849	−0.001	−47 10 25.14	10.61	+0.01	
310	Br 1147 Camelopardalis	5.73	12 41.148	7.540	+0.007	+75 55 40.87	10.96	+0.02	
311	20 Puppis	5.05	8 10 48.229	+2.758	−0.001	−15 37 16.74	−10.84	−0.01	
312	β Cancri	3.76	13 32.005	3.254	−0.003	+ 9 21 23.22	11.03	−0.05	
313	289 G. Puppis	4.43	16 29.703	2.246	−0.009	−36 29 16.45	11.15	+0.09	
314	31 Lyncis	4.43	19 4.616	4.103	−0.002	+43 21 58.42	11.54	−0.10	
315	ε Carinae	1.74	21 23.200	1.232	−0.004	−59 19 54.85	11.58	+0.02	
316	Br 1197 Hydrae	3.95	8 22 54.731	+2.998	−0.005	− 3 43 32.73	−11.73	−0.03	
317	ο Ursae Majoris	3.47	25 42.683	+4.986	−0.019	+60 54 14.67	12.02	−0.11	
318	ϑ Chamaeleontis	4.26	22 19.862	−1.791	−0.039	−77 18 27.80	11.62	+0.04	
319	β Volantis	3.65	25 8.720	+0.655	−0.004	−65 57 10.73	12.02	−0.16	
320	Grb 1450 Lyncis	6.05	29 20.788	3.901	−0.009	+38 12 23.73	12.33	−0.17	
321	η Cancri	5.52	8 29 31.806	+3.469	−0.003	+20 37 45.77	−12.22	−0.05	
322	Grb 1446 Camelopardalis	6.29	33 38.405	6.677	−0.005	+73 49 28.44	12.56	−0.10	
323	Grb 1460 U Maj	6.03	35 13.727	4.446	−0.004	+52 54 21.70	12.60	−0.04	
324	48 G. Velorum	4.13	35 42.492	2.109	−0.002	−42 47 44.73	12.59	+0.01	
325	6 Hydrae	5.15	37 25.062	2.842	−0.006	−12 16 47.45	12.72	−0.01	
326	δ Cancri	4.17	8 41 33.694	+3.409	−0.001	+18 21 27.95	−13.22	−0.23	
327	α Pyxidis	3.70	41 22.838	2.411	−0.001	−32 59 13.65	12.97	+0.01	
328	ε Cancri	4.20	43 22.364	3.631	−0.002	+28 57 45.04	13.15	−0.04	
329	† ε Hydrae *m*	3.48	43 51.866	3.177	−0.013	+ 6 37 18.44	13.20	−0.05	
330	† δ Velorum *m*	2.01	43 11.083	+1.657	+0.002	−54 30 22.17	13.17	−0.08	
331	η Chamaeleontis	5.62	8 43 14.816	−2.027	−0.008	−78 45 52.36	−13.03	+0.02	
332	γ Pyxidis	4.19	48 11.776	+2.547	−0.010	−27 30 17.86	13.34	+0.08	
333	† σ^2 Cancri *m*	5.60	50 53.587	3.661	+0.003	+30 47 20.49	13.63	−0.02	
334	ζ Hydrae	3.30	52 29.232	3.171	−0.007	+ 6 9 21.70	13.69	+0.01	
335	ε Ursae Majoris	3.12	55 27.084	4.108	−0.044	+48 15 32.50	14.13	−0.24	
336	108 G. Carinae	3.98	8 53 48.150	+1.361	−0.002	−60 26 2.03	−13.74	+0.04	
337	α Cancri	4.27	55 28.839	3.281	+0.002	+12 4 18.69	13.93	−0.03	
338	ρ Ursae Majoris	4.99	57 36.871	5.413	−0.005	+67 50 45.28	14.01	+0.02	
339	Br 1268 Lyncis	4.09	57 4.598	3.895	−0.039	+42 0 6.85	14.25	−0.26	
340	Grb 1501 U Maj	5.68	59 59.339	4.396	−0.001	+54 30 7.93	14.18	0.00	
341	κ Ursae Majoris	3.68	8 59 52.771	+4.097	−0.003	+47 22 31.95	−14.23	−0.06	
342	97 G. Velorum	3.69	9 2 15.316	2.069	−0.006	−46 52 40.73	14.33	−0.02	
343	α Volantis	4.18	1 35.061	0.949	+0.001	−66 10 34.20	14.37	−0.10	
344	† σ^2 Ursae Majoris	4.87	5 34.702	5.278	−0.004	+67 21 34.65	14.59	−0.03	
345	λ Velorum	2.22	5 58.248	2.207	−0.002	−43 12 34.71	14.52	+0.02	Al Suhail
346	36 Lyncis	5.30	9 10 12.842	+3.924	−0.003	+43 26 45.01	−14.83	−0.04	
347	ϑ Hydrae	3.84	11 30.212	3.122	+0.009	+ 2 32 50.48	15.18	−0.31	
348	β Carinae	1.80	12 36.388	0.662	−0.028	−69 29 25.40	14.83	+0.10	Miaplacidus
349	† 38 Lyncis	3.82	15 25.669	3.734	−0.003	+37 2 11.64	15.23	−0.13	
350	83 Cancri	6.60	15 54.814	3.348	−0.009	+17 56 22.51	15.26	−0.13	
351	ε Carinae	2.25	9 15 37.081	+1.607	−0.002	−59 2 38.12	−15.10	+0.01	
352	α Lyncis	3.30	17 42.593	3.655	−0.018	+34 37 34.70	15.21	+0.01	
353	κ Velorum	2.63	20 24.543	1.858	−0.001	−54 46 30.31	15.37	+0.01	
354	α Hydrae	2.16	24 53.054	2.948	−0.001	− 8 25 9.52	15.60	+0.03	Alphard
355	23 Ursae Majoris	3.75	27 12.884	4.731	+0.016	+63 18 13.78	15.73	+0.03	
356	ε Antliae	4.64	9 26 58.368	+2.476	−0.002	−35 42 36.18	−15.75	−0.01	
357	24 Ursae Majoris	4.57	29 39.260	5.307	−0.013	+70 4 25.52	15.81	+0.08	
358	ϑ Ursae Majoris	3.26	29 11.416	4.013	−0.103	+51 55 45.15	16.40	−0.54	
359	† ψ Velorum *m*	3.64	28 31.865	2.363	−0.017	−40 13 30.33	15.75	+0.07	
360	10 Leonis Minoris	4.62	9 30 51.590	+3.676	0.000	+36 38 34.16	−15.98	−0.03	

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361	N Velorum	3.04	9 29 32.950	+1.823	−0.004	−56 47 28.00	−15.88	0.00	
362	H Carinae	5.52	31 12.459	0.454	−0.003	−72 50 12.66	15.97	−0.01	
363	Grb 1564 Ursae Maj.	5.74	37 34.361	5.138	−0.014	+69 29 21.60	16.37	−0.07	
364	κ Hydrae	4.96	37 40.093	2.876	−0.002	−14 4 54.95	16.33	−0.02	
365	ο Leonis	3.76	38 12.997	3.202	−0.010	+10 8 36.58	16.37	−0.04	
366	ϑ Antliae	4.98	9 41 44.865	+2.675	−0.004	−27 31 0.87	−16.48	+0.03	
367	ε Leonis	3.12	42 43.964	3.406	−0.003	+24 1 42.41	16.57	−0.02	
368	υ Ursae Majoris	3.89	47 5.748	4.267	−0.039	+59 17 54.99	16.93	−0.16	
369	† υ Carinae	3.15	45 43.680	1.501	−0.001	−64 48 58.61	16.69	+0.01	
370	6 Sextantis	6.00	48 27.704	3.023	0.000	− 3 59 5.18	16.87	−0.03	
371	μ Leonis	4.10	9 49 38.368	+3.412	−0.016	+26 16 0.84	−16.95	−0.06	
372	Grb 1586 Ursae Maj.	5.96	53 30.663	5.366	−0.018	+73 8 32.63	17.11	−0.04	
373	183 G. Hydrae	5.16	52 16.465	2.830	−0.003	−18 44 53.06	17.06	−0.05	
374	19 Leonis Minoris	5.19	54 19.384	3.675	−0.011	+41 19 6.54	17.14	−0.03	
375	φ Velorum	3.70	54 55.696	2.106	−0.002	−54 18 18.84	17.12	+0.01	
376	12 Sextantis	6.63	9 56 51.906	+3.112	−0.005	+ 3 38 54.51	−17.20	+0.02	
377	η Antliae	5.25	56 30.470	2.574	−0.008	−35 37 37.42	17.23	−0.02	
378	π Leonis	4.89	9 57 18.480	3.170	−0.002	+ 8 18 32.07	17.27	−0.03	
379	η Leonis	3.58	10 4 20.170	3.271	0.000	+17 1 53.91	17.55	−0.01	
380	α Leonis	1.34	5 26.679	3.195	−0.017	+12 14 12.45	17.59	0.00	Regulus.
381	λ Hydrae	3.83	10 7 54.330	+2.925	−0.014	−12 4 53.51	−17.79	−0.09	
382	191 G. Velorum	4.09	12 25.391	2.518	−0.014	−41 50 55.86	17.84	+0.04	
383	λ Ursae Majoris	3.52	13 47.258	3.619	−0.015	+43 11 23.35	17.98	−0.04	
384	ζ Leonis	3.65	13 38.065	3.337	+0.001	+23 41 31.63	17.94	−0.01	
385	ω Carinae	3.56	12 25.979	1.429	−0.005	−69 45 51.99	17.87	0.00	
386	μ Ursae Majoris	3.21	10 19 3.597	+3.575	−0.007	+41 46 36.76	−18.10	+0.03	
387	30 H. Ursae Majoris	4.92	20 11.364	4.327	−0.002	+65 50 43.50	18.20	−0.03	
388	25 Sextantis	6.10	20 39.632	3.032	−0.004	− 3 47 43.51	18.19	0.00	
389	μ Hydrae	4.06	23 25.708	2.902	−0.009	−16 33 17.68	18.37	−0.08	
390	β Leonis Minoris	4.41	24 42.533	3.469	−0.010	+36 59 22.95	18.45	−0.11	
391	I Carinae	4.08	10 23 18.582	+1.193	−0.003	−73 45 5.01	−18.31	−0.03	
392	α Antliae	4.42	24 37.919	2.746	−0.006	−30 47 13.32	18.32	+0.02	
393	196 G. Carinae	4.08	25 51.293	2.202	−0.002	−58 27 29.15	18.38	0.00	
394	36 Ursae Majoris	4.84	27 7.227	3.840	−0.022	+56 15 48.01	18.46	−0.04	
395	9 H. Draconis	5.04	30 28.517	5.102	−0.010	+75 59 49.93	18.54	−0.01	
396	ρ Leonis	3.85	10 29 54.969	+3.159	−0.001	+ 9 35 24.82	−18.52	−0.01	
397	203 G. Carinae	3.58	30 3.808	2.133	−0.003	−61 24 6.89	18.51	+0.01	
398	37 Ursae Majoris	5.16	31 38.002	3.865	+0.008	+57 21 59.84	18.54	+0.03	
399	44 Hydrae	5.32	31 23.749	2.854	−0.001	−23 27 40.21	18.55	+0.02	
400	† 222 G. Velorum *m*	4.06	34 59.085	2.521	−0.016	−47 56 22.07	18.70	−0.02	
401	γ Chamaeleontis	4.10	10 34 50.088	+0.713	−0.013	−78 19 20.20	−18.66	+0.02	
402	225 G. Velorum	4.37	37 6.730	2.388	−0.002	−55 18 58.96	18.75	0.00	
403	35 H. Ursae Majoris	5.23	39 9.531	4.298	−0.001	+69 21 52.49	18.83	−0.02	
404	33 Sextantis	6.40	38 36.267	3.052	−0.009	− 1 27 6.88	18.92	−0.13	
405	41 Leonis Minoris	5.05	40 25.708	3.262	−0.009	+23 28 36.79	18.84	+0.01	
406	ϑ Carinae	3.03	10 40 59.371	+2.141	−0.002	−64 6 20.83	−18.85	+0.01	
407	42 Leonis Minoris	5.37	42 48.653	3.336	−0.002	+30 58 21.13	18.96	−0.04	
408	† μ Velorum	2.84	44 23.908	2.580	+0.007	−49 7 44.48	19.01	−0.05	
409	53 Leonis	5.27	46 22.028	3.154	0.000	+10 50 12.25	19.05	−0.03	
410	ν Hydrae	3.32	46 54.542	2.961	+0.007	−15 54 19.34	18.84	+0.19	
411	δ^2 Chamaeleontis	4.62	10 45 17.419	+0.567	−0.015	−80 15 0.07	−18.99	0.00	
412	46 Leonis Minoris	3.92	50 14.458	3.355	+0.007	+34 30 42.60	19.41	−0.29	
413	Br 1508 Draconis	6.26	55 36.796	4.800	−0.025	+78 3 55.31	19.29	−0.03	
414	ε Antliae	4.70	54 8.999	2.796	+0.007	−36 50 30.01	19.35	−0.13	
415	239 G. Velorum	4.56	57 37.494	2.752	+0.002	−41 55 49.92	19.31	0.00	
416	β Ursae Majoris	2.44	10 58 32.138	+3.621	+0.010	+56 40 39.56	−19.30	+0.03	Merak(天旋)
417	α Ursae Majoris	1.95	11 0 21.023	3.703	−0.017	+62 2 54.01	19.44	−0.07	Dubhe(天樞)
418	γ Leonis	4.66	2 10.821	3.095	−0.023	+ 7 38 1.46	19.46	−0.05	
419	χ^1 Hydrae	5.06	2 40.689	2.891	−0.014	−26 59 46.67	19.42	0.00	
420	ψ Ursae Majoris	3.15	11 6 34.726	+3.373	−0.006	+44 47 50.35	−19.53	−0.03	

FK3番號	星名	等級	赤經 h m s	年差 s	固有運動 s	赤緯 ° ′ ″	年差 ″	固有運動 ″	固有名
421	β Crateris	4.52	11 8 56.980	+2.951	0.000	−22 31 30.78	−19.65	−0.10	
422	δ Leonis	2.58	11 11.136	3.191	+0.010	+20 49 31.27	19.73	−0.14	
423	ϑ Leonis	3.41	11 21.322	3.148	−0.004	+15 43 49.80	19.68	−0.08	
424	Grb 1757 Ursae Maj.	5.97	13 36.381	3.381	−0.009	+49 46 36.28	19.65	−0.02	
425	ν Ursae Majoris	3.71	15 30.741	3.241	−0.002	+33 23 40.82	19.65	+0.02	
426	δ Crateris	3.82	11 16 35.299	+3.000	−0.009	−14 28 50.34	−19.49	+0.20	
427	σ Leonis	4.13	18 18.019	3.094	−0.006	+ 6 19 51.80	19.73	−0.01	
428	π Centauri	4.26	18 29.473	2.737	−0.003	−54 11 21.50	19.72	0.00	
429	Grb 1771 Ursae Maj.	5.98	19 36.246	3.566	−0.001	+64 37 54.22	19.70	+0.03	
430	† ℓ Leonis	4.03	21 3.490	3.128	+0.011	+10 49 56.72	19.83	−0.08	
431	γ Crateris	4.14	11 22 7.867	+2.998	−0.007	−17 22 54.13	−19.77	0.00	
432	58 Ursae Majoris	5.88	27 32.909	3.247	−0.005	+43 28 31.16	19.77	+0.08	
433	λ Draconis	4.06	28 9.720	3.563	−0.008	+69 38 5.48	19.87	−0.02	
434	ξ Hydrae	3.72	30 17.511	2.951	−0.016	−31 33 10.81	19.91	−0.04	
435	C^2 Centauri	5.42	33 15.135	2.907	+0.003	−47 20 11.25	19.96	−0.05	
436	λ Centauri	3.34	11 33 13.992	+2.766	−0.005	−62 42 54.89	−19.91	−0.01	
437	υ Leonis	4.47	34 7.895	3.072	0.000	− 0 31 11.74	19.88	+0.04	
438	π Chamaeleontis	5.74	34 58.681	2.475	−0.032	−75 35 30.24	19.92	+0.01	
439	o Hydrae	4.88	37 28.558	2.980	−0.003	−34 26 22.52	19.94	0.00	
440	3 Draconis	5.48	39 25.328	3.347	−0.008	+67 2 57.87	19.93	+0.03	
441	χ Ursae Majoris	3.85	11 43 9.187	+3.169	−0.014	+48 5 3.97	−19.97	+0.02	
442	λ Muscae	3.80	42 59.903	2.832	−0.015	−66 25 25.40	19.96	+0.03	
443	65 G. Centauri	4.22	43 50.418	2.900	−0.004	−60 52 20.85	20.01	−0.02	
444	β Leonis	2.23	46 15.308	3.060	−0.034	+14 52 46.38	20.13	−0.12	Denebola
445	β Virginis	3.80	47 49.759	3.125	+0.049	+ 2 4 29.03	20.29	−0.27	
446	B Centauri	4.71	11 48 23.158	+2.997	−0.009	−44 52 3.18	−20.05	−0.03	
447	γ Ursae Majoris	2.54	50 56.780	3.156	+0.010	+54 0 2.08	20.02	+0.01	Phecda (天機)
448	† ε Chamaeleontis *m*	5.05	11 56 51.898	2.975	−0.014	−77 54 55.64	20.04	0.00	
449	88 G. Centauri	5.28	12 0 48.163	3.107	+0.029	−42 7 33.82	20.16	−0.12	
450	o Virginis	4.24	2 24.428	3.056	−0.015	+ 9 2 18.42	20.00	+0.05	
451	Grb 1852 Camelopardalis	5.96	12 2 28.992	+3.053	+0.044	+77 12 47.38	−20.14	−0.10	
452	δ Centauri	2.88	5 29.896	3.109	−0.003	−50 24 57.95	20.05	−0.01	
453	ε Corvi	3.21	7 17.495	3.086	−0.005	−22 18 50.07	20.02	+0.01	
454	Br 1634 Camelopardalis	5.12	9 38.752	2.812	+0.002	+77 55 18.29	20.01	+0.02	
455	δ Crucis	3.08	12 12.688	3.185	−0.004	−58 26 34.47	20.02	−0.01	
456	δ Ursae Majoris	3.44	12 12 42.725	+2.970	+0.012	+57 20 16.96	−20.01	0.00	(天權)
457	γ Corvi	2.78	12 58.418	3.086	−0.011	−17 14 11.99	20.00	+0.02	
458	2 Canum Venaticorum	5.80	13 22.437	3.007	+0.001	+40 57 58.24	20.05	−0.04	
459	β Chamaeleontis	4.38	15 4.595	3.513	−0.013	−79 0 24.80	19.98	+0.02	
460	η Virginis	4.00	17 5.414	3.070	−0.004	− 0 21 40.62	20.01	−0.02	
461	6 Canum Venaticorum	5.22	12 23 8.571	+2.956	−0.007	+39 19 24.62	−19.98	−0.04	
462	α Crucis *m*	1.58 2.09	23 31.670	3.336	−0.004	−62 47 40.69	19.95	−0.01	Acrux
463	323 G. Hydrae	5.68	23 57.372	3.162	−0.001	−32 31 31.00	19.96	−0.03	
464	σ Centauri	4.16	25 3.308	3.244	−0.003	−49 55 34.35	19.94	−0.02	
465	δ Corvi	3.11	27 0.862	3.104	−0.015	−16 12 33.95	20.05	−0.14	
466	20 Comae	5.72	12 26 57.504	+3.014	+0.002	+21 12 1.72	−19.94	−0.03	
467	74 Ursae Majoris	5.44	27 23.624	2.802	−0.009	+58 42 29.34	19.81	+0.09	
468	γ Crucis	1.61	28 6.095	3.327	+0.004	−56 48 19.32	20.16	−0.26	
469	γ Muscae	4.04	29 9.313	3.581	−0.009	−71 49 45.58	19.89	−0.01	
470	β Canum Venaticorum	4.32	31 8.048	2.849	−0.063	+41 39 21.96	19.57	+0.29	
471	β Corvi	2.84	12 31 29.589	+3.152	0.000	−23 5 34.06	−19.91	−0.06	
472	κ Draconis	3.88	31 8.739	2.561	−0.012	+70 5 28.20	19.85	+0.01	
473	24 Comae *sq*	5.18	32 22.265	3.009	0.000	+18 40 46.54	19.82	+0.02	
474	α Muscae	2.94	33 52.840	3.576	−0.006	−68 49 57.50	19.84	−0.01	
475	χ Virginis	4.78	36 24.266	3.097	−0.005	− 7 41 35.48	19.82	−0.03	
476	† γ Centauri *m*	2.38	12 38 28.345	+3.308	−0.019	−48 39 28.37	−19.77	−0.01	
477	† γ Virginis *m*	3.65 3.68	38 52.255	3.040	−0.038	− 1 8 52.87	19.75	+0.01	
478	76 Ursae Majoris	5.92	39 10.135	2.621	−0.006	+63 0 52.89	19.77	−0.02	
479	330 G. Hydrae	5.73	41 4.229	3.197	−0.003	−28 1 20.39	19.76	−0.04	
480	† β Muscae *m*	3.26	12 42 53.111	+3.678	−0.005	−67 48 26.48	−19.72	−0.02	

FK3番號	星名	等級	赤經 h m s	年差 s	固有運動 s	赤緯 ° ′ ″	年差 ″	固有運動 ″	固有名
481	β Crucis	1.50	12 44 29.516	+3.505	−0.005	−59 23 17.93	−19.68	−0.01	
482	150 G. Centauri	4.34	50 22.903	3.323	+0.006	−39 52 48.26	19.59	−0.03	
483	ε Ursae Majoris	1.68	51 36.899	2.640	+0.013	+56 15 28.99	19.55	−0.01	Alioth(玉衡)
484	δ Virginis	3.66	52 49.874	3.022	−0.031	+ 3 41 45.43	19.57	−0.06	
485	α Canum Ven *sq*	2.90	53 27.451	2.806	−0.020	+38 36 53.97	19.45	+0.05	
486	8 Draconis	5.27	12 53 17.503	+2.388	−0.001	+65 44 11.25	−19.54	−0.04	
487	δ Muscae	3.63	58 27.388	4.124	+0.057	−71 15 10.00	19.42	−0.03	
488	ε Virginis	2.95	12 59 26.281	2.986	−0.019	+11 15 15.70	19.35	+0.02	
489	ξ^2 Centauri	4.40	13 3 41.223	3.501	−0.003	−49 36 43.38	19.28	−0.01	
490	ϑ Virginis	4.44	7 5.941	3.106	−0.002	− 5 14 44.93	19.23	−0.04	
491	17 Canum Venaticorum	6.04	13 7 31.782	+2.755	−0.006	+38 47 26.73	−19.14	+0.04	
492	β Comae	4.32	9 18.452	2.800	−0.060	+28 9 23.16	18.26	+0.88	
493	η Muscae	4.95	11 29.655	4.063	−0.006	−67 36 13.31	19.09	−0.02	
494	20 Canum Venaticorum	4.66	15 4.709	2.690	−0.011	+40 51 42.08	18.96	+0.02	
495	γ Hydrae	3.33	15 55.579	3.262	+0.005	−22 52 54.94	19.00	−0.05	
496	ℓ Centauri	2.91	13 17 29.812	+3.372	−0.028	−36 25 21.77	−18.99	−0.09	
497	ζ Ursae Majoris *p*	2.40	21 42.840	2.416	+0.014	+55 12 43.55	18.81	−0.03	Mizar(開陽)
498	α Virginis	1.21	22 17.505	3.161	−0.003	−10 52 29.42	18.80	−0.03	Spica(天門)
499	Grb 2001 Ursae Min.	6.07	24 43.711	1.529	+0.004	+72 40 36.25	18.70	−0.01	
500	69 H. Ursae Maj.	5.41	26 26.104	2.202	−0.011	+60 13 45.74	18.60	+0.03	
501	ζ Virginis	3.44	13 31 53.275	+3.057	−0.019	− 0 18 55.49	−18.42	+0.04	
502	17 H. Canum Ven	4.96	32 20.524	2.679	+0.007	+37 27 48.98	18.45	−0.01	
503	49 G. Chamaeleontis	6.44	34 26.336	5.126	−0.004	−75 24 15.43	18.38	−0.01	
504	ε Centauri	2.56	36 23.319	3.800	−0.002	−53 11 14.61	18.31	−0.01	
505	Grb 2029 Ursae Min.	5.67	35 51.440	1.440	−0.009	+71 31 18.42	18.32	−0.01	
506	1 Centauri	4.36	13 42 33.271	+3.409	−0.036	−32 45 58.75	−18.22	−0.15	
507	τ Bootis	4.51	44 38.853	2.851	−0.034	+17 43 48.60	17.96	+0.03	
508	μ Centauri	3.32	46 17.581	3.614	−0.002	−42 12 1.74	17.95	−0.02	
509	η Ursae Majoris	1.91	45 22.490	2.364	−0.013	+49 35 14.00	17.98	−0.01	Alkaid(搖光)
510	89 Virginis	5.11	46 52.668	3.260	−0.007	−17 51 39.57	17.95	−0.04	
511	10 Draconis	4.77	13 49 49.461	+1.752	0.000	+64 59 39.94	−17.79	−0.01	
512	ζ Centauri	3.06	52 5.794	3.742	−0.006	−47 1 6.08	17.73	−0.04	
513	η Bootis	2.80	52 3.893	2.857	−0.004	+18 40 21.58	18.06	−0.36	
514	294 G. Centauri	4.68	53 38.689	4.339	−0.005	−63 25 4.82	17.66	−0.03	
515	47 Hydrae	5.17	55 25.609	3.367	−0.003	−24 42 16.22	17.58	−0.03	
516	τ Virginis	4.34	13 58 50.675	+3.053	+0.001	+ 1 48 35.62	−17.43	−0.02	
517	11 Bootis	6.12	58 40.806	2.720	−0.006	+27 39 5.33	17.40	+0.01	
518	β Centauri	0.86	13 59 55.348	4.233	−0.003	−60 6 31.02	17.38	−0.02	
519	π Hydrae	3.48	14 3 13.961	3.417	+0.003	−26 25 5.77	17.36	−0.14	
520	ϑ Centauri	2.26	3 26.221	3.530	−0.043	−36 6 0.97	17.73	−0.52	
521	α Draconis	3.64	14 2 53.840	+1.624	−0.009	+64 38 17.56	−17.22	+0.01	
522	12 d Bootis	4.82	7 53.385	2.736	−0.002	+25 21 5.14	17.07	−0.06	
523	κ Virginis	4.31	9 57.449	+3.201	0.000	−10 1 7.07	16.77	+0.14	
524	4 Ursae Minoris	5.00	9 1.718	−0.237	−0.011	+77 48 21.27	16.92	+0.03	
525	ℓ Virginis	4.16	13 7.607	+3.146	−0.001	− 5 44 20.07	17.18	−0.43	
526	α Bootis	0.24	14 13 9.080	+2.736	−0.078	+19 28 4.73	−18.75	−2.00	Arcturus (大角)
527	λ Bootis	4.26	14 17.576	2.281	−0.018	+46 20 24.63	16.54	+0.16	
528	ℓ Bootis	4.78	14 13.058	2.124	−0.016	+51 37 13.09	16.61	+0.09	
529	υ Centauri	4.41	16 27.948	4.188	−0.002	−56 8 3.27	16.61	−0.01	
530	10 G. Circini	5.71	20 30.692	4.969	−0.002	−67 56 47.76	16.41	−0.01	
531	ϑ Bootis	4.06	14 23 19.406	+2.042	−0.026	+52 6 15.51	−16.65	−0.40	
532	52 Hydrae	5.00	24 56.698	3.514	−0.002	−29 14 43.84	16.19	−0.03	
533	φ Virginis	4.97	25 21.912	3.091	−0.009	− 1 58 56.52	16.15	0.00	
534	ρ Bootis	3.78	29 27.520	2.585	−0.008	+30 36 43.21	15.81	+0.12	
535	γ Bootis	3.00	29 51.764	2.416	−0.010	+38 32 52.90	15.76	+0.15	
536	Grb 2125 Draconis	6.18	14 30 13.036	+1.628	−0.007	+60 28 2.51	−15.88	+0.01	
537	η Centauri	2.65	32 0.259	3.809	−0.003	−41 55 2.59	15.83	−0.03	
538	α Centauri *cg*	0.33 1.70	35 50.918	4.077	−0.489	−60 36 34.93	14.87	+0.71	Rigil Kent
539	α Circini	3.41	38 2.121	4.846	−0.030	−64 44 13.87	15.70	−0.24	
540	33 Bootis	5.39	14 36 47.360	+2.232	−0.007	+44 38 28.23	−15.55	−0.02	

FK3番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
541	α Lupi	2.89	14 38 15.582	+3.989	−0.002	−47 9 11.93	−15.47	−0.02	
542	α Apodis	3.81	40 55.736	7.439	−0.001	−78 48 49.21	15.32	−0.02	
543	† ζ Bootis *m*	3.86	38 31.217	2.865	+0.004	+13 57 47.70	15.46	−0.02	
544	371 G. Centauri	4.13	40 17.093	3.669	−0.005	−34 56 16.90	15.52	−0.19	
545	μ Virginis	3.95	40 9.474	3.162	+0.007	− 5 25 12.68	15.67	−0.32	
546	30 G. Lupi	5.20	14 43 9.567	+4.195	−0.002	−52 9 7.37	−15.26	−0.08	
547	109 Virginis	3.76	43 27.925	3.033	−0.007	+ 2 7 24.81	15.19	−0.03	
548	α^2 Librae	2.90	47 49.852	3.319	−0.007	−15 48 51.80	14.97	−0.07	
549	Grb 2164 Draconis	5.67	50 2.412	+1.523	−0.017	+59 31 0.79	14.64	+0.13	
550	β Ursae Minoris	2.24	50 50.520	−0.177	−0.008	+74 22 49.12	14.72	+0.01	Kochab
551	Pi 14^h 221 Bootis	5.77	14 53 37.338	+2.832	−0.001	+14 40 3.06	−14.56	0.00	
552	β Lupi	2.81	54 55.116	3.928	−0.004	−42 54 49.32	14.52	−0.04	
553	κ Centauri	3.35	55 34.396	3.903	−0.001	−41 53 5.38	14.47	−0.03	
554	2 H. Ursae Minoris	4.86	56 42.029	0.953	−0.014	+66 9 3.86	14.35	+0.03	
555	β Bootis	3.63	14 59 52.373	2.260	−0.004	+40 36 23.78	14.21	−0.03	
556	σ Librae	3.41	15 0 50.685	+3.512	−0.005	−25 4 1.60	−14.17	−0.05	
557	ψ Bootis	4.67	2 5.240	2.571	−0.013	+27 9 39.94	14.05	−0.01	
558	ζ Lupi	3.50	8 19.184	4.309	−0.012	−51 53 29.10	13.71	−0.07	
559	ε Librae	4.66	9 4.840	3.420	−0.003	−19 35 5.53	13.64	−0.04	
560	γ Triangulis Australis	3.06	13 44.613	5.599	−0.011	−68 28 42.03	13.32	−0.03	
561	β Circini	4.16	15 13 11.383	+4.695	−0.013	−58 35 51.06	−13.47	−0.14	
562	3 Serpentis	5.44	12 27.135	2.982	−0.001	+ 5 8 32.51	13.38	0.00	
563	δ Bootis	3.54	13 17.025	2.419	+0.007	+33 31 8.30	13.45	−0.12	
564	β Librae	2.74	14 2.587	3.228	−0.007	− 9 10 52.47	13.30	−0.02	
565	1 H. Ursae Minoris	5.23	13 59.792	0.688	+0.037	+67 33 19.16	13.67	−0.39	
566	ψ^1 Lupi	3.59	15 18 18.449	+3.806	−0.008	−36 3 47.78	−13.08	−0.09	
567	χ^1 Apodis	5.65	25 28.419	6.533	+0.002	−73 12 5.36	12.54	−0.03	
568	μ Bootis *pr*	4.47	22 24.669	+2.267	−0.012	+37 34 8.64	12.64	+0.08	
569	γ Ursae Minoris	3.14	20 47.828	−0.096	−0.005	+72 1 47.07	12.81	+0.02	
570	τ^1 Serpentis	5.46	23 14.199	+2.783	−0.001	+15 37 12.82	12.68	−0.01	
571	ε Draconis	3.47	15 23 42.078	+1.334	−0.002	+59 9 29.24	−12.62	+0.01	
572	β Coronae Borealis	3.72	25 33.580	2.474	−0.014	+29 17 39.29	12.42	+0.08	
573	ν^1 Bootis	5.15	28 57.111	2.155	+0.001	+41 1 10.80	12.28	−0.01	
574	ε Triangulis Australis	4.11	31 39.639	5.488	+0.004	−66 8 3.62	12.15	−0.07	
575	† γ Lupi *m*	2.95	31 27.989	3.998	−0.001	−40 59 0.28	12.13	−0.03	
576	ϑ Coronae Borealis	4.17	15 30 42.600	+2.419	−0.002	+31 32 37.12	−12.17	−0.02	
577	γ Librae	4.02	32 26.691	3.356	+0.004	−14 36 27.17	12.03	0.00	
578	α Coronae Borealis	2.31	32 21.451	2.540	+0.009	+26 53 55.36	12.13	−0.09	Alphecca
579	υ Librae	3.78	33 40.753	3.642	0.000	−27 57 15.74	11.95	0.00	
580	φ Bootis	5.41	35 50.972	2.155	+0.005	+40 31 53.46	11.74	+0.06	
581	† γ Coronae Borealis	3.93	15 40 25.865	+2.520	−0.008	+26 28 7.40	−11.42	+0.04	
582	α Serpentis	2.75	41 33.381	2.955	+0.009	+ 6 35 50.59	11.34	+0.05	Unuk
583	β Serpentis	3.74	43 38.831	2.769	+0.005	+15 35 33.75	11.28	−0.05	
584	κ Serpentis	4.28	46 15.722	2.701	−0.003	+18 18 36.86	11.13	−0.09	
585	μ Serpentis	3.63	46 44.799	3.131	−0.006	− 3 15 47.89	11.03	−0.03	
586	χ Lupi	4.11	15 47 27.389	+3.812	−0.001	−33 27 40.46	−10.99	−0.03	
587	12 H. Draconis	5.13	45 49.251	0.914	+0.005	+62 46 8.63	11.14	−0.06	
588	ε Serpentis	3.75	48 4.295	2.991	+0.008	+ 4 38 31.11	10.85	+0.06	
589	β Triangulis Australis	3.04	50 16.530	+5.284	−0.028	−63 15 46.83	11.14	−0.39	
590	ζ Ursae Minoris	4.34	45 58.551	−2.147	+0.005	+77 57 52.45	11.07	0.00	
591	γ Serpentis	3.86	15 53 54.611	+2.771	+0.021	+15 50 23.39	−11.76	−1.29	
592	π Scorpii	3.00	55 31.151	3.630	−0.001	−25 57 26.21	10.38	−0.02	
593	ε Coronae Borealis	4.22	55 18.502	2.484	−0.006	+27 2 9.51	10.44	−0.06	
594	δ Scorpii	2.54	57 4.585	3.548	−0.001	−22 28 0.26	10.27	−0.03	Dschubba
595	Grb 2296 Draconis	4.96	15 56 28.863	1.423	−0.019	+54 54 16.02	10.18	+0.11	
596	δ Normae	4.84	16 2 35.688	+4.239	0.000	−45 1 32.65	− 9.79	+0.03	
597	β Scorpii *pr*	2.90	2 14.066	3.489	0.000	−19 39 23.25	9.87	−0.02	
598	ϑ Draconis	4.11	0 51.217	1.124	−0.041	+58 42 41.73	9.62	+0.34	
599	ϑ Lupi	4.33	2 58.394	3.939	−0.002	−36 39 15.51	9.83	−0.04	
600	κ Normae	5.09	16 9 7.680	+4.730	−0.001	−54 29 24.84	− 9.35	−0.03	

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			h m s	s	s	° ′ ″	″	″	
601	φ Herculis	4.26	16 7 2.055	+1.890	−0.003	+45 4 41.44	− 9.45	+0.03	
602	δ Triangulis Australis	4.03	10 24.795	5.459	+0.001	−63 32 51.05	9.23	−0.01	
603	δ Ophiuchi	3.03	11 27.608	3.144	−0.003	− 3 33 15.10	9.29	−0.15	
604	γ^2 Normae	4.14	15 42.862	4.488	−0.017	−50 1 21.37	8.86	−0.05	
605	ε Ophiuchi	3.34	15 24.477	+3.174	+0.005	− 4 33 35.62	8.79	+0.04	
606	19 Ursae Minoris	5.51	16 12 21.734	−1.713	−0.001	+76 1 0.67	− 9.06	+0.01	
607	σ Scorpii	3.08	17 50.426	+3.647	−0.001	−25 27 45.01	8.66	−0.02	
608	τ Herculis	3.91	18 5.108	1.803	−0.001	+46 26 36.48	8.58	+0.04	
609	γ Herculis	3.79	19 29.500	2.647	−0.004	+19 16 51.69	8.47	+0.04	
610	ζ Triangulis Australis	4.93	22 31.622	6.452	+0.040	−69 57 47.81	8.16	+0.10	
611	γ Apodis	3.90	16 24 56.752	+9.198	−0.041	−78 46 39.69	− 8.14	−0.07	
612	η Ursae Minoris	5.04	19 5.047	−1.755	−0.023	+75 52 58.12	8.29	+0.25	
613	ω Herculis	4.53	22 52.511	+2.769	+0.003	+14 9 30.83	8.30	−0.06	
614	Grb 2343 Draconis	5.66	23 12.939	1.312	+0.001	+55 19 46.13	8.20	+0.02	
615	† η Draconis	2.89	23 14.417	0.812	−0.003	+61 38 17.84	8.15	+0.06	
616	α Scorpii	1.22	16 26 1.850	+3.679	0.000	−26 18 41.96	− 8.01	−0.02	Antares (大火)
617	† λ Ophiuchi *m*	3.85	28 8.210	3.026	−0.002	+ 2 6 10.49	7.89	−0.07	
618	β Herculis	2.81	27 51.209	+2.579	−0.007	+21 36 29.44	7.86	−0.02	
619	A Draconis	4.98	28 4.765	−0.118	−0.005	+68 53 13.82	7.79	+0.03	
620	τ Scorpii	2.91	32 27.228	+3.735	−0.001	−28 6 13.17	7.49	−0.02	
621	σ Herculis	4.25	16 32 19.659	+1.934	−0.001	+42 32 58.22	− 7.44	+0.04	
622	ζ Ophiuchi	2.70	34 7.619	+3.304	+0.001	−10 27 26.27	7.31	+0.02	
623	Grb 2373 Ursae Min.	6.39	32 58.572	−2.583	−0.033	+77 33 25.85	7.16	+0.27	
624	Br 2114 Ophiuchi	5.04	38 23.284	+3.470	−0.002	−17 38 14.64	6.99	0.00	
625	α Triangulis Australis	1.88	42 49.298	6.352	+0.005	−68 55 46.73	6.65	−0.03	
626	η Herculis	3.61	16 41 0.501	+2.057	+0.003	+39 1 33.05	− 6.85	−0.08	
627	Grb 2377 Draconis	4.88	44 14.963	1.138	+0.002	+56 52 46.56	6.44	+0.07	
628	ε Scorpii	2.36	46 35.777	3.886	−0.049	−34 11 42.68	6.56	−0.25	
629	49 Herculis	6.41	49 34.470	2.731	+0.001	+15 3 54.45	6.06	0.00	
630	† ξ^2 Scorpii	3.75	50 42.426	4.221	−0.011	−42 16 8.81	6.20	−0.23	
631	ζ Arae	3.06	16 54 3.584	+4.964	−0.002	−55 54 19.99	− 5.72	−0.03	
632	ε^1 Arae	4.15	55 11.520	4.781	0.000	−53 4 41.17	5.57	+0.02	
633	κ Ophiuchi	3.42	55 3.764	2.840	−0.020	+ 9 27 32.82	5.61	−0.01	
634	ε Herculis	3.92	16 58 10.989	2.295	−0.004	+31 0 22.50	5.31	+0.03	
635	60 Herculis	4.91	17 2 49.533	2.782	+0.003	+12 48 53.88	4.96	−0.01	
636	Grb 2415 Herculis	6.27	17 5 58.939	+1.957	−0.003	+40 35 12.92	− 4.71	−0.03	
637	† η Ophiuchi *m*	2.63	7 13.254	3.440	+0.003	−15 39 30.66	4.48	+0.09	Sabik
638	η Scorpii	3.44	8 12.522	4.297	+0.002	−43 10 7.19	4.77	−0.28	
639	ζ Draconis	3.22	8 37.309	0.174	−0.003	+65 46 56.19	4.43	+0.02	
640	† α Herculis *pr*	3,1-3,9 Var.	12 8.264	2.736	−0.001	+14 27 5.93	4.12	+0.04	
641	δ Herculis	3.16	17 12 46.233	+2.464	−0.002	+24 54 9.94	− 4.26	−0.16	
642	ε Apodis	5.60	15 57.050	6.692	+0.001	−70 4 6.90	3.84	−0.01	
643	π Herculis	3.36	13 7.769	2.089	−0.003	+36 52 12.24	4.07	0.00	
644	ϑ Ophiuchi	3.37	18 37.731	3.685	0.000	−24 56 47.19	3.62	−0.02	
645	β Arae	2.80	20 43.306	4.987	−0.001	−55 28 49.01	3.44	−0.02	
646	45 Ophiuchi	4.37	17 23 50.351	+3.831	+0.001	−29 49 8.95	− 3.29	−0.14	
647	27 H. Ophiuchi	4.61	23 42.635	3.183	−0.006	− 5 2 22.52	3.20	−0.04	
648	δ Arae	3.79	26 7.657	5.416	−0.007	−60 38 25.51	3.04	−0.09	
649	υ Scorpii	2.80	27 1.260	4.079	0.000	−37 15 14.05	2.90	−0.03	
650	77 Herculis	5.81	25 16.616	1.590	0.000	+48 18 19.27	3.03	−0.01	
651	α Arae	2.97	17 27 35.148	+4.638	−0.003	−49 50 5.30	− 2.89	−0.07	
652	λ Scorpii	1.71	29 52.237	4.074	0.000	−37 3 56.32	2.65	−0.03	Shaula
653	β Draconis	2.99	29 11.249	1.355	−0.002	+52 20 29.01	2.67	+0.01	
654	ϑ Scorpii	2.04	33 21.803	4.311	+0.001	−42 57 53.48	2.32	0.00	
655	ν^1 Draconis	4.98	31 5.395	1.181	+0.016	+55 13 16.34	2.47	+0.05	
656	α Ophiuchi	2.14	17 32 22.776	+2.785	+0.008	+12 35 55.05	− 2.63	−0.23	Rasalague
657	ν^2 Draconis	4.95	31 10.823	1.182	+0.017	+55 12 35.09	2.46	+0.05	
658	ξ Serpentis	3.64	34 26.094	+3.435	−0.003	−15 21 56.50	2.29	−0.06	
659	27 Draconis	5.21	32 10.749	−0.241	−0.003	+68 10 12.67	2.29	+0.13	
660	κ Scorpii	2.51	17 38 40.788	+4.150	0.000	−39 0 13.33	− 1.89	−0.03	

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			h m s	s	s	° ′ ″	″	″	
661	η Pavonis	3.58	17 40 19.821	+5.889	0.000	−64 42 1.07	− 1.76	−0.05	
662	μ Arae	5.26	39 46.420	4.763	−0.002	−51 48 25.12	1.95	−0.19	
663	ε Herculis	3.79	37 54.604	+1.693	−0.001	+46 2 4.89	1.92	0.00	
664	ω Draconis	4.87	37 16.115	−0.352	0.000	+68 47 0.86	1.66	+0.32	
665	β Ophiuchi	2.94	40 45.224	+2.964	−0.003	+ 4 35 19.38	1.52	+0.16	
666	ℓ^1 Scorpii	3.14	17 43 44.115	+4.196	0.000	−40 6 27.75	− 1.42	0.00	
667	μ Herculis	3.48	44 18.237	2.348	−0.024	+27 45 6.14	2.11	−0.74	
668	γ Ophiuchis	3.74	45 7.984	3.008	−0.002	+ 2 43 35.21	1.37	−0.07	
669	G Scorpii	3.25	46 6.768	+4.084	+0.005	−37 1 39.76	1.18	+0.03	
670	ψ Draconis *pr*	4.90	42 54.645	−1.067	+0.004	+72 10 35.04	1.76	−0.27	
671	ξ Draconis	3.90	17 52 34.531	+1.037	+0.011	+56 52 50.47	− 0.57	+0.08	
672	ϑ Herculis	3.99	54 21.898	2.057	0.000	+37 15 24.11	0.49	+0.01	
673	ν Ophiuchi	3.50	55 59.818	3.303	−0.001	− 9 46 6.90	0.47	−0.12	
674	ξ Herculis	3.82	55 37.555	+2.331	+0.006	+29 15 9.21	0.40	−0.02	
675	35 Draconis	5.04	51 54.406	−2.687	+0.011	+76 58 17.43	0.46	+0.25	
676	γ Draconis	2.42	17 55 19.617	+1.393	−0.001	+51 29 40.67	− 0.43	−0.02	Etamin
677	67 Ophiuchi	3.92	17 57 53.316	3.004	0.000	+ 2 55 57.46	− 0.19	−0.01	
678	66 G. Apodis	5.69	18 3 34.136	8.395	+0.004	−75 53 48.14	+ 0.04	−0.28	
679	γ Sagittarii	3.07	2 16.407	3.854	−0.004	−30 25 35.95	0.02	−0.18	
680	72 Ophiuchi	3.73	4 44.439	2.844	−0.004	+ 9 33 16.43	0.50	+0.08	
681	o Herculis	3.83	18 5 23.717	+2.340	0.000	+28 45 13.32	+ 0.48	+0.01	
682	μ Sagittarii	4.01	10 28.379	3.588	0.000	−21 4 30.24	0.92	0.00	
683	η Sagittarii	3.16	13 54.256	4.059	−0.011	−36 46 48.62	1.05	−0.16	
684	Grb 2533 Lyrae	5.42	13 56.011	1.866	−0.001	+42 8 22.27	1.22	0.00	
685	36 Draconis	5.03	13 34.712	0.345	+0.053	+64 22 42.29	1.22	+0.03	
686	ξ Pavonis	4.25	18 18 9.523	+5.528	0.000	−61 31 17.69	+ 1.60	0.00	
687	δ Sagittarii	2.84	17 28.351	3.841	+0.003	−29 51 12.25	1.50	−0.03	
688	η Serpentis	3.42	18 27.740	3.104	−0.037	− 2 54 52.86	0.92	−0.70	
689	ε Sagittarii	1.95	20 31.287	3.983	−0.002	−34 24 45.35	1.67	−0.13	Kaus Austr
690	109 Herculis	3.92	21 21.161	2.556	+0.014	+21 44 36.33	1.63	−0.24	
691	α Telescopii	3.76	18 22 53.706	+4.448	−0.002	−46 0 2.74	+ 1.96	−0.04	
692	λ Sagittarii	2.94	24 34.539	+3.702	−0.003	−25 27 14.03	1.96	−0.18	
693	†♀ Draconis *m*	4.24	21 32.815	−0.861	−0.002	+71 18 32.68	1.92	+0.04	
694	† 39 Draconis	4.85	23 6.333	+0.875	−0.006	+58 46 6.08	2.08	+0.06	
695	χ Draconis	3.69	22 2.899	−1.083	+0.117	+72 42 34.41	1.57	−0.36	
696	γ Scuti	4.73	18 26 3.704	+3.419	0.000	−14 36 9.41	+ 2.27	0.00	
697	ϑ Coronae Australis	4.69	29 34.516	4.284	+0.003	−42 21 15.10	2.56	−0.02	
698	ζ Pavonis	4.10	36 37.265	7.012	+0.001	−71 28 43.58	3.03	−0.16	
699	α Lyrae	0.14	35 4.504	+2.031	+0.017	+38 43 52.86	3.34	+0.28	Vega(織女)
700	Grb 2655 Draconis	5.84	32 24.951	−2.898	−0.001	+77 30 20.36	2.83	0.00	
701	Grb 2640 Draconis	6.00	18 36 2.881	+0.187	+0.002	+65 26 21.58	+ 3.22	+0.08	
702	ε Scuti	5.09	40 31.481	3.267	+0.001	− 8 19 52.39	3.53	+0.01	
703	110 Herculis	4.26	43 17.591	2.582	−0.001	+20 29 32.47	3.43	−0.33	
704	λ Pavonis	4.42	47 7.579	5.559	−0.001	−62 15 11.90	4.08	−0.02	
705	β Lyrae	3.4-4.3 Var.	48 2.862	2.215	0.000	+33 17 51.68	4.17	0.00	
706	σ Sagittarii	2.14	18 51 51.322	+3.720	+0.001	−26 22 0.70	+ 4.44	−0.06	Nunki
707	o Draconis	4.78	50 23.367	0.885	+0.010	+59 19 14.28	4.40	+0.02	
708	λ Telescopii	5.03	54 4.007	4.800	+0.002	−53 0 45.91	4.70	+0.01	
709	ϑ Serpentis *pr*	4.50	53 29.064	2.982	+0.003	+ 4 7 50.13	4.67	+0.04	
710	ξ^2 Sagittarii	3.61	54 26.921	3.578	+0.002	−21 10 50.65	4.71	−0.01	
711	R Lyrae	4.0-4.5 Var.	18 53 39.606	+1.825	+0.002	+43 52 21.76	+ 4.73	+0.08	
712	ε Aquilae	4.21	57 7.499	2.723	−0.004	+14 59 31.92	4.87	−0.07	
713	Υ Lyrae	3.30	56 53.075	+2.244	−0.001	+32 36 46.58	4.93	0.00	
714	υ Draconis	4.91	55 4.606	−0.735	+0.010	+71 13 26.86	4.82	+0.05	
715	† ζ Sagittarii *m*	2.71	18 59 6.799	+3.817	−0.001	−29 57 38.44	5.11	0.00	
716	ζ Aquilae	3.02	19 2 52.858	+2.757	−0.001	+13 46 49.13	+ 5.34	−0.09	
717	λ Aquilae	3.55	3 19.763	3.183	−0.002	− 4 57 59.70	5.38	−0.09	
718	α Coronae Australis	4.12	5 43.943	4.081	+0.007	−37 59 31.44	5.57	−0.10	
719	ε Lyrae	5.13	5 20.238	2.140	−0.001	+36 0 46.43	5.64	0.00	
720	π Sagittarii	3.02	19 6 29.609	+3.567	0.000	−21 6 46.22	+ 5.70	−0.04	

FK3番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
721	† 60 G. Pavonis *m*	5.57	19 11 41.038	+6.034	+0.001	−66 45 32.29	+ 6.15	−0.02	
722	43 Sagittarii	5.03	14 25.041	3.510	−0.001	−19 3 9.18	6.38	−0.02	
723	δ Draconis	3.24	12 32.768	0.014	+0.016	+67 33 53.35	6.33	+0.09	
724	ϑ Lyrae	4.46	14 27.448	2.082	−0.001	+38 2 4.94	6.40	0.00	
725	ω Aquilae	5.14	15 14.016	2.816	0.000	+11 29 41.57	6.48	+0.02	
726	χ Cygni	3.98	19 15 49.865	+1.386	+0.006	+53 15 58.63	+ 6.64	+0.12	
727	υ Sagittarii	4.58	18 34.646	3.435	0.000	−16 3 35.59	6.74	−0.01	
728	α Sagittarii	4.11	20 4.703	+4.156	+0.003	−40 43 16.70	6.75	−0.12	
729	τ Draconis	4.63	16 37.248	−1.155	−0.033	+73 15 14.48	6.69	+0.11	
730	δ Aquilae	3.44	22 43.471	+3.024	+0.017	+ 3 0 13.17	7.17	+0.08	
731	186 G. Sagittarii	5.68	19 23 28.042	+3.791	+0.002	−29 51 13.41	+ 7.10	−0.04	
732	β Cygni *pr*	3.24	28 30.115	2.419	0.000	+27 50 34.58	7.55	0.00	Albireo
733	ε Cygni	3.94	28 19.125	+1.512	+0.002	+51 36 42.67	7.67	+0.13	
734	Grb 2900 Draconis	6.00	25 3.109	−3.639	+0.004	+79 29 39.73	7.24	−0.03	
735	ℓ Telescopii	5.02	31 8.446	+4.450	−0.002	−48 13 11.16	7.73	−0.03	
736	52 Sagittarii	4.66	19 33 21.707	+3.650	+0.005	−25 0 24.08	+ 7.92	−0.02	
737	κ Aquilae	5.04	33 55.937	3.227	0.000	− 7 9 4.75	7.99	0.00	
738	ϑ Cygni	4.64	34 57.919	1.608	−0.003	+50 5 34.35	8.32	+0.25	
739	ν Telescopii	5.52	43 32.240	4.899	+0.010	−56 29 48.68	8.62	−0.13	
740	15 Cygni	5.02	42 17.482	2.163	+0.006	+37 13 13.50	8.69	+0.03	
741	Υ Aquilae	2.80	19 43 38.644	+2.852	+0.001	+10 28 40.62	+ 8.76	0.00	
742	† δ Cygni	2.97	43 15.299	1.875	+0.004	+44 59 44.31	8.78	+0.05	
743	δ Sagittae	3.78	44 56.048	2.675	0.000	+18 23 50.35	8.87	+0.01	
744	51 Aquilae	5.55	47 45.271	3.301	−0.002	−10 54 16 47	9.12	+0.03	
745	α Aquilae	0.89	48 5.951	2.927	+0.036	+ 8 43 18.23	9.50	+0.39	Altair(牽牛)
746	η Aquilae	3.7-4.4 Var.	19 49 40.244	+3.056	0.000	+ 0 51 47.16	+ 9.23	0.00	
747	† ε Draconis	3.99	48 22.087	−0.203	+0.015	+70 7 40.80	9.17	+0.04	
748	ε Pavonis	4.10	54 16.095	+6.944	+0.019	−73 3 31.17	9.46	−0.13	
749	β Aquilae	3.90	52 36.644	2.946	+0.003	+ 6 16 4.97	8.98	−0.48	
750	† ψ Cygni	4.80	54 12.423	1.550	−0.005	+52 17 31.95	9.55	−0.03	
751	ϑ^1 Sagittarii	4.39	19 56 9.576	+3.904	0.000	−35 25 36.06	+ 9.71	−0.02	
752	Υ Sagittae	3.71	56 18.587	2.668	+0.004	+19 20 29.70	9.77	+0.03	
753	62 Sagittarii	4.60	19 59 16.727	3.689	+0.003	−27 51 51.60	9.99	+0.02	
754	δ Pavonis	3.64	20 3 20.974	5.887	+0.197	−66 19 29.07	9.14	−1.14	
755	ξ Telescopii	4.86	3 10.856	4.597	−0.001	−53 2 24.54	10.28	+0.01	
756	ϑ Aquilae	3.37	20 8 28.015	+3.095	+0.002	− 0 59 9.51	+10.66	+0.01	
757	$31o^1$ Cygni	3.95	11 53.896	1.889	0.000	+46 34 25.34	10.92	+0.01	
758	33 Cygni	4.32	12 7.170	+1.394	+0.007	+56 23 55.84	11.01	+0.08	
759	κ Cephei	4.40	10 46.640	−2.017	+0.002	+77 32 48.26	10.85	+0.03	
760	24 Vulpeculae	5.45	14 25.786	+2.567	+0.001	+24 30 2.07	11.08	−0.01	
761	α^2 Capricorni	3.77	20 15 0.236	+3.328	+0.004	−12 43 0.28	+11.14	+0.01	
762	β Capricorni	3.25	17 55.346	3.370	+0.003	−14 57 23.44	11.35	0.00	Peacock
763	$\varkappa^1$ Sagittarii	5.64	18 43.793	4.073	+0.003	−42 13 28.39	11.32	−0.09	
764	α Pavonis	2.12	21 18.525	4.747	+0.001	−56 54 47.47	11.51	−0.08	
765	Υ Cygni	2.32	20 15.170	2.153	0.000	+40 4 46.91	11.52	0.00	
766	† ρ Capricorni	4.96	20 25 43.487	+3.421	−0.001	−17 59 48.78	+11.89	−0.02	
767	ϑ Cephei	4.28	28 39.655	1.007	+0.006	+62 48 31.83	12.10	−0.01	
768	ε Delphini	3.98	30 35.064	2.866	0.000	+11 6 54.70	12.23	−0.02	
769	α Indi	3.21	33 42.402	+4.220	+0.005	−47 29 5.46	12.53	+0.07	
770	73 Draconis	5.18	32 15.327	−0.790	+0.001	+74 45 59.40	12.35	−0.01	
771	† β Delphini *m*	3.72	20 34 58.135	+2.813	+0.007	+14 24 9.74	+12.52	−0.03	
772	κ Delphini	5.23	36 27.419	2.913	+0.021	+ 9 53 28.54	12.67	+0.02	
773	υ Capricorni	5.33	36 55.235	3.415	−0.002	−18 20 1.17	12.66	−0.02	
774	α Delphini	3.86	37 4.935	2.786	+0.004	+15 43 0.87	12.69	0.00	
775	β Pavonis	3.60	40 1.633	5.409	−0.006	−66 24 9.91	12.91	+0.02	
776	η Indi	4.70	20 40 0.653	+4.406	+0.017	−52 7 8.75	+12.83	−0.05	
777	α Cygni	1.33	39 33.320	2.045	0.000	+45 4 58.76	12.86	0.00	Deneb
778	δ Delphini	4.53	40 53.404	2.801	−0.002	+14 52 34.19	12.91	−0.04	
779	ψ Capricorni	4.26	42 50.526	3.552	−0.004	−25 28 11.76	12.92	−0.15	
780	ε Cygni	2.64	20 43 59.035	+2.427	+0.028	+33 45 47.84	+13.48	+0.33	

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			h m s	s	s	° ′ ″	″	″	
781	ε Aquarii	3.83	20 44 41.977	+3.247	+0.002	− 9 41 54.07	+13.17	−0.03	
782	6 H. Cephei	4.63	43 59.187	1.489	−0.009	+57 22 54.45	12.92	−0.23	
783	η Cephei	3.59	44 10.399	1.220	+0.013	+61 37 29.01	13.98	+0.82	
784	† λ Cygni *m*	4.47	45 15.851	2.337	0.000	+36 17 15.78	13.23	0.00	
785	β Indi	3.72	50 31.609	4.690	+0.002	−58 39 47.85	13.56	−0.02	
786	32 Vulpeculae	5.24	20 52 12.844	+2.557	−0.001	+27 50 50.89	+13.69	0.00	
787	α Octantis	5.24	58 7.728	7.279	+0.003	−77 14 9.67	13.70	−0.36	
788	ν Cygni	4.04	55 7.234	2.236	0.000	+40 57 16.66	13.86	−0.01	
789	11 Aquarii	6.26	57 40.074	3.158	+0.003	− 4 56 37.82	13.90	−0.13	
790	ζ Microscopii	5.35	20 59 27.444	3.833	−0.002	−38 50 51.25	14.03	−0.11	
791	A Capricorni	4.60	21 3 54.842	+3.509	−0.002	−25 13 37.12	+14.37	−0.04	
792	ξ Cygni	3.92	2 55.686	2.182	0.000	+43 42 27.53	14.36	0.00	
793	61 Cygni *pr*	5.57	4 25.684	2.687	+0.350	+38 28 40.71	17.71	+3.26	
794	ν Aquarii	4.52	6 35.965	+3.267	+0.006	−11 35 43.97	14.56	−0.01	
795	Br 2777 Cephei	5.90	6 38.007	−1.201	+0.006	+77 54 13.84	14.61	+0.04	
796	23 G. Indi	5.84	21 11 50.813	+4.284	+0.002	−53 29 31.42	+14.88	−0.01	
797	ζ Cygni	3.40	10 35.591	2.553	0.000	+30 0 1.64	14.76	−0.05	
798	† Grb 3415 Cephei *m*	5.65	10 24.211	1.527	−0.001	+59 45 35.36	14.80	0.00	
799	† τ Cygni	3.82	12 35.591	2.395	+0.013	+37 48 35.43	15.37	+0.44	
800	α Equulei	4.14	13 4.443	2.999	+0.004	+ 5 1 9.97	14.88	−0.08	
801	ε Microscopii	4.79	21 14 36.433	+3.637	+0.004	−32 24 12.75	+15.03	−0.02	
802	ϑ^1 Microscopii	4.92	17 14.943	3.837	+0.006	−41 2 35.81	15.20	0.00	
803	α Cephei	2.60	17 16.014	1.432	+0.021	+62 21 7.47	15.25	+0.05	Alderamin
804	I Pegasi	4.24	19 32.475	2.774	+0.007	+19 34 5.81	15.40	+0.07	
805	γ Pavonis	4.30	21 55.385	4.964	+0.015	−65 37 0.02	16.26	+0.80	
806	ζ Capricorni	3.86	21 23 31.812	+3.425	0.000	−22 39 2.35	+15.58	+0.03	
807	71 Cygni	5.34	27 25.015	2.214	+0.004	+46 17 50.58	15.87	+0.11	
808	β Aquarii	3.07	28 39.859	3.158	+0.001	− 5 48 50.83	15.83	0.00	
809	β Cephei	3.32	27 57.476	0.775	+0.002	+70 19 8.87	15.81	+0.01	
810	ν Octantis	3.74	35 26.545	6.685	+0.019	−77 38 10.03	15.95	−0.24	
811	74 Cygni	5.09	21 34 44.483	+2.405	−0.001	+40 9 56.80	+16.17	+0.02	
812	γ Capricorni	3.80	37 2.753	3.324	+0.013	−16 54 42.40	16.25	−0.02	
813	13 H. Cephei	5.64	37 15.088	1.861	−0.001	+57 14 23.22	16.28	0.00	
814	ε Piscis Australis	4.35	41 40.559	3.574	+0.003	−33 16 39.96	16.41	−0.09	
815	ε Pegasi	2.54	41 29.022	2.946	+0.002	+ 9 37 19.14	16.50	0.00	Enif
816	† κ Pegasi *m*	4.27	21 42 9.129	+2.717	+0.002	+25 23 29.24	+16.54	+0.02	
817	11 Cephei	4.85	41 7.336	0.879	+0.024	+71 3 28.87	16.58	+0.11	
818	λ Capricorni	5.43	43 34.539	3.229	+0.002	−11 37 13.79	16.59	0.00	
819	δ Capricorni	2.98	44 0.436	3.311	+0.018	−16 22 40.11	16.33	−0.29	
820	ο Indi	5.50	46 10.141	5.080	−0.004	−69 53 12.26	16.72	0.00	
821	π^2 Cygni	4.26	21 44 45.489	+2.217	0.000	+49 3 15.99	+16.66	0.00	
822	γ Gruis	3.16	50 36.272	3.633	+0.008	−37 37 27.94	16.92	−0.01	
823	16 Pegasi	5.05	50 33.425	2.730	0.000	+25 39 56.22	16.93	0.00	
824	δ Indi	4.56	54 11.351	4.084	+0.006	−55 15 18.41	17.10	0.00	
825	ε Indi	4.74	59 10.071	4.589	+0.481	−57 0 47.28	14.77	−2.55	
826	20 Pegasi	5.66	21 58 24.475	+2.922	+0.004	+12 51 20.74	+17.24	−0.05	
827	α Aquarii	3.19	22 2 57.541	3.081	+0.001	− 0 35 16.04	17.48	0.00	
828	ε Aquarii	4.35	3 28.105	3.240	+0.003	−14 8 14.33	17.46	−0.05	
829	α Gruis	2.16	4 46.550	3.781	+0.012	−47 13 41.55	17.42	−0.15	Al Na'ir
830	20 Cephei	5.39	3 20.041	1.824	+0.002	+62 31 0.88	17.57	+0.06	
831	ε Pegasi	3.96	22 4 26.863	+2.793	+0.022	+25 4 32.84	+17.58	+0.03	
832	μ Piscis Australis	4.62	5 10.790	3.500	+0.006	−33 15 28.17	17.54	−0.04	
833	27 Pegasi	5.65	6 47.203	2.658	−0.005	+32 54 10.82	17.59	−0.06	
834	ϑ Pegasi	3.70	7 25.465	3.026	+0.018	+ 5 55 35.83	17.71	+0.04	
835	π Pegasi	4.38	7 32.477	2.664	−0.001	+32 54 27.69	17.66	−0.02	
836	ζ Cephei	3.62	22 8 56.525	+2.081	+0.001	+57 55 46.78	+17.74	+0.01	
837	24 Cephei	4.99	8 45.233	1.153	+0.006	+72 4 12.51	17.74	+0.01	
838	λ Piscis Australis	5.40	11 11.958	3.400	+0.002	−28 2 25.38	17.83	0.00	
839	ε Octantis	5.11	13 59.259	6.748	+0.030	−80 42 53.63	17.90	−0.03	
840	ϑ Aquarii	4.32	22 13 55.938	3.165	+0.008	− 8 3 28.38	+17.92	−0.02	

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			h m s	s	s	° ′ ″	″	″	
841	α Tucanae	2.91	22 14 45.137	+4.113	−0.008	−60 32 4.46	+17.93	−0.03	
842	γ Aquarii	3.97	18 48.930	3.098	+0.009	− 1 39 54.49	18.14	+0.01	
843	31 Pegasi	4.93	18 48.539	2.953	0.000	+11 55 39.20	18.14	+0.02	
844	β Lacertae	4.58	21 23.522	2.359	−0.002	+51 57 10.70	18.03	−0.19	
845	ν Gruis	5.48	25 26.163	3.517	+0.003	−39 24 38.60	18.21	−0.16	
846	δ^1 Gruis	4.02	22 25 59.401	+3.586	+0.002	−43 46 38.10	+18.38	0.00	
847	δ Cephei	3.7-4.4 Var.	27 7.382	2.227	+0.001	+58 7 59.49	18.42	0.00	
848	α Lacertae	3.85	29 1.203	2.472	+0.014	+49 59 57.40	18.51	+0.02	
849	υ Aquarii	5.29	31 41.268	3.281	+0.016	−20 59 26.20	18.43	−0.14	
850	η Aquarii	4.13	32 31.797	3.083	+0.006	− 0 24 5.52	18.55	−0.05	
851	31 Cephei	5.22	22 34 24.560	+1.481	+0.039	+73 21 26.94	+18.69	+0.03	
852	10 Lacertae	4.91	36 47.319	2.692	0.000	+38 45 48.64	18.73	0.00	
853	30 Cephei	5.21	36 41.592	2.128	−0.001	+63 17 53.52	18.71	−0.02	
854	ε Piscis Australis	4.22	37 37.042	3.318	+0.002	−27 19 51.61	18.77	+0.01	
855	ζ Pegasi	3.61	38 43.039	2.992	+0.005	+10 32 37.46	18.79	−0.01	
856	β Gruis	2.24	22 39 23.518	+3.583	+0.013	−47 10 22.11	+18.81	0.00	
857	η Pegasi	3.10	40 25.205	2.812	+0.001	+29 55 59.24	18.83	−0.02	
858	13 Lacertae	5.24	41 37.993	2.676	−0.001	+41 31 48.79	18.89	+0.01	
859	λ Pegasi	4.14	43 52.718	2.890	+0.004	+23 16 32.66	18.94	−0.01	
860	ε Gruis	3.69	45 14.559	3.624	+0.011	−51 36 23.63	18.93	−0.06	
861	τ Aquarii	4.21	22 46 40.871	+3.176	−0.001	−13 53 0.09	+19.00	−0.03	
862	μ Pegasi	3.67	47 20.716	2.896	+0.011	+24 18 38.71	19.01	−0.04	
863	ℓ Cephei	3.68	47 42.913	2.135	−0.011	+65 54 39.16	18.94	−0.12	
864	λ Aquarii	3.84	49 44.732	3.129	+0.001	− 7 52 21.94	19.15	+0.04	
865	ρ Indi	6.14	50 51.784	4.178	−0.007	−70 22 5.10	19.21	+0.07	
866	δ Aquarii	3.51	22 51 43.987	+3.184	−0.003	−16 6 49.62	+19.14	−0.02	
867	α Piscis Australis	1.29	54 36.956	3.315	+0.026	−29 54 51.08	19.03	−0.16	Fomalhaut (北落師門)
868	ζ Gruis	4.18	57 38.606	3.543	−0.007	−53 2 58.16	19.30	0.00	
869	ο Andromedae	3.63	22 59 23.079	2.760	+0.002	+42 1 48.52	19.35	0.00	
870	β Pegasi	2.61	23 1 6.233	2.908	+0.014	+27 47 2.89	19.53	+0.14	Scheat
871	α Pegasi	2.57	23 2 1.121	+2.988	+0.004	+14 54 32.30	+19.37	−0.04	Markab
872	† ϑ Gruis	4.35	3 47.282	3.380	−0.004	−43 49 4.17	19.43	−0.02	
873	88 Aquarii	3.80	6 30.988	3.199	+0.004	−21 28 16.51	19.54	+0.04	
874	† π Cephei	4.56	6 8.427	1.907	+0.002	+75 5 24.28	19.47	−0.02	
875	Br 3077 Cassiopeiae	5.65	10 37.415	2.888	+0.252	+56 51 52.03	19.88	+0.30	
876	25 G. Tucanae	5.69	23 13 40.216	+3.609	+0.025	−62 18 4.82	+19.61	−0.02	
877	γ Tucanae	4.10	14 13.940	3.502	−0.004	−58 32 14.90	19.74	+0.09	
878	γ Piscium	3.85	14 18.781	3.110	+0.051	+ 2 58 53.42	19.67	+0.02	
879	γ Sculptoris	4.51	15 51.508	3.240	+0.002	−32 49 54.70	19.61	−0.06	
880	τ Pegasi	4.65	17 54.655	2.970	+0.002	+23 26 20.64	19.70	0.00	
881	υ Pegasi	4.57	23 22 37.819	+2.994	+0.014	+23 6 4.02	+19.82	+0.04	
882	4 Cassiopeiae	5.20	22 22.992	2.664	+0.001	+61 58 50.54	19.77	−0.01	
883	ο Gruis	5.54	23 32.403	3.357	+0.003	−53 1 34.55	19.92	+0.13	
884	κ Piscium	4.94	24 6.706	3.075	+0.006	+ 0 57 15.48	19.71	−0.09	
885	70 Pegasi	4.67	26 22.234	3.034	+0.004	+12 27 25.30	19.87	+0.04	
886	β Sculptoris	4.46	23 30 1.602	+3.217	+0.007	−38 7 21.74	+19.89	+0.02	
887	† 72 Pegasi *m*	5.21	31 13.146	2.976	+0.004	+31 1 17.82	19.87	−0.01	
888	248 G. Aquarii	6.51	32 41.823	3.095	0.000	− 7 46 8.21	19.93	+0.03	
889	11 G. Phoenicis	4.86	34 53.723	3.230	+0.006	−45 47 48.46	19.92	0.00	
890	λ Andromedae	4.00	34 51.830	2.936	+0.015	+46 9 36.31	19.51	−0.42	
891	ℓ Andromedae	4.28	23 35 25.888	+2.943	+0.002	+42 57 48.50	+19.93	0.00	
892	ε Piscium	4.28	37 7.170	3.086	+0.025	+ 5 19 41.04	19.51	−0.43	
893	γ Cephei	3.42	37 4.152	2.459	−0.021	+77 19 31.37	20.10	+0.16	
894	ω^2 Aquarii	4.62	39 52.250	3.111	+0.007	−14 50 57.03	19.90	−0.06	
895	41 H. Cephei	5.02	45 15.896	2.868	+0.001	+67 30 4.28	20.01	0.00	
896	δ Sculptoris	4.64	23 46 3.847	+3.125	+0.008	−28 26 4.13	+19.91	−0.10	
897	268 G. Aquarii	6.08	47 24.443	3.096	+0.009	−10 16 52.62	20.09	+0.03	
898	♀ Pegasi	5.23	49 41.165	3.052	−0.001	+18 48 53.33	19.99	−0.03	
899	ρ Cassiopeiae	4.4-5.1 Var.	51 37.423	2.997	−0.001	+57 11 36.42	20.03	0.00	
900	27 Piscium	5.07	23 55 51.410	+3.072	−0.003	− 3 51 39.99	+19.97	−0.07	

FK3 番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
901	π Phoenicis	5.14	23 56 5.211	+3.109	+0.006	−53 3 10.87	+20.11	+0.07	
902	ω Piscium	4.03	56 29.090	3.081	+0.010	+ 6 33 31.79	19.93	−0.11	
903	ε Tucanae	4.71	57 4.382	3.120	+0.009	−65 52 59.08	20.02	−0.02	
904	ϑ Octantis	4.73	23 58 47.936	3.089	−0.015	−77 22 9.04	19.88	−0.16	
905	2 Ceti	4.62	0 0 55.386	+3.073	+0.002	−17 38 31.50	+20.04	0.00	

北 周 極 星

FK3 番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
	Na 43 H. Cephei	4.52	1 0 50.009	+ 8.126	+0.077	+85 57 47.63	+19.33	−0.01	(Polaris (北極星)
	Nb α Ursae Minoris	2.12	1 45 36.895	+37.604	+0.174	+89 0 14.30	+17.94	0.00	
	Nc Grb 750 Cephei	6.70	4 18 22.941	+18.120	+0.018	+85 24 20.47	+ 8.62	+0.03	
	Nd 51 H. Cephei	5.26	7 15 29.630	+28.277	−0.048	+87 8 7.59	− 6.54	−0.03	
	Ne 1 H. Draconis	4.58	9 29 24.664	+ 8.571	−0.007	+81 34 19.82	−15.89	−0.02	
	Nf 30 H. Camelopardalis	5.34	10 24 33.343	+ 7.327	−0.044	+82 50 23.59	−18.31	+0.02	
	Ng ε Ursae Minoris	4.40	16 51 31.647	− 6.158	+0.006	+82 7 51.16	− 5.90	0.00	
	Nh δ Ursae Minoris	4.44	17 49 55.536	−19.455	+0.012	+86 36 39.33	− 0.84	+0.05	
	Ni λ Ursae Minoris	6.55	18 27 46.958	−76.914	−0.112	+89 2 52.77	+ 2.37	0.00	
	Nk 76 Draconis	5.69	20 46 41.526	− 4.326	+0.014	+82 19 45.67	+13.35	+0.03	

南 周 極 星

FK3 番號	星名	等級	赤經	年差	固有運動	赤緯	年差	固有運動	固有名
			h m s	s	s	° ′ ″	″	″	
	Sa 4 G. Octantis	5.63	1 40 22.410	− 3.441	+0.022	−85 2 53.58	+18.18	+0.02	
	Sb ξ Mensae	5.85	5 5 3.363	− 6.850	−0.003	−82 32 50.25	+ 4.77	+0.01	
	Sc ζ Octantis	5.38	9 5 4.305	− 8.624	−0.092	−85 26 45.80	−14.44	+0.04	
	Sd ε Octantis	5.38	12 48 58.782	+ 6.253	+0.046	−84 49 30.88	−19.56	+0.02	
	Se 20 G. Octantis	6.52	14 59 0.043	+28.953	−0.178	−87 55 41.62	−14.29	−0.07	
	Sf 26 G. Octantis	6.13	16 39 58.337	+22.367	+0.010	−86 16 21.74	− 6.84	0.00	
	Sg χ Octantis	5.22	18 22 50.021	+35.470	−0.071	−87 39 19.91	+ 1.89	−0.13	
	Sh σ Octantis	5.48	20 8 31.591	+79.525	+0.132	−89 9 13.06	+10.71	0.00	
	Si β Octantis	4.34	22 40 33.874	+ 6.148	−0.023	−81 40 15.25	+18.86	+0.01	
	Sk τ Octantis	5.56	23 20 37.252	+ 8.989	+0.027	−87 47 6.25	+19.76	+0.01	

1945 本初子午線正中時

星名	2 Ceti		α Andr		β Cass		ε Phoe	
等級	4.62		2.15		2.42		3.94	
スペクトル型	A 0		A 0 p		F 5		K 0	
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
	h m	° ′	h m	° ′	h m	° ′	h m	° ′
月 日	0 0	−17 38	0 5	+28 47	0 6	+58 50	0 6	−46 2
	s	″	s	″	s	″	s	″
1 0.7	54.114	45.34	31.268	14.78	12.746	57.58	36.099	84.64
10.7	54.000 114	45.69 35	31.123 145	13.84 94	12.419 327	56.83 75	35.906 193	84.30 34
20.7	53.893 107	45.82 13	30.983 140	12.64 120	12.103 316	55.55 128	35.728 178	83.51 79
30.6	53.801 92	45.71 11	30.856 127	11.23 141	11.813 290	53.82 173	35.572 156	82.27 124
	76	35	109	155	254	213	130	164
2 9.6	53.725	45.36	30.747	9.68	11.559	51.69	35.442	80.63
19.6	53.672 53	44.76 60	30.663 84	8.03 165	11.355 204	49.25 244	35.344 98	78.63 200
	27	84	53	165	144	264	60	233
3 1.6	53.645 —	43.92	30.610 16	6.38	11.211 75	46.61	35.284 17	76.30
11.5	53.649 4	42.83 109	30.594 —	4.80 158	11.136 1	43.87 274	35.267 28	73.70 260
21.5	53.688 39	41.50 133	30.621 27	3.37 143	11.137 81	41.16 271	35.295 78	70.88 282
31.5	53.765 77	39.95 155	30.692 71	2.16 121	11.218 161	38.58 258	35.373 130	67.90 298
	117	176	119	94		234		309
4 10.5	53.882	38.19	30.811	1.22 60	11.379	36.24	35.503	64.81
20.4	54.040 158	36.25 194	30.976 165	0.62 60	11.618 239	34.23 201	35.684 181	61.69 312
30.4	54.236 196	34.16 209	31.185 209	0.39 23	11.928 310	32.63 160	35.917 233	58.59 310
	234	219	250	16	372	113	279	300
5 10.4	54.470	31.97	31.435	0.55	12.300	31.50	36.196	55.59
20.3	54.736 266	29.71 226	31.719 284	1.10 55	12.725 425	30.87 63	36.518 322	52.74 285
30.3	55.028 292	27.46 225	32.030 311	2.03 93	13.189 464	30.77 10	36.876 358	50.12 262
	311	221	330	130	490	43	386	233
6 9.3	55.339	25.25	32.360	3.33	13.679	31.20	37.262	47.79
19.3	55.662 323	23.15 210	32.700 340	4.95 162	14.182 503	32.14 94	37.665 403	45.80 199
29.2	55.989 327	21.21 194	33.040 340	6.86 191	14.682 500	33.58 144	38.077 412	44.21 159
	321	173	333	213	486	189	408	116
7 9.2	56.310	19.48	33.373	8.99	15.168	35.47	38.485	43.05
19.2	56.617 307	18.00 148	33.689 316	11.31 232	15.626 458	37.76 229	38.881 396	42.36 69
29.2	56.903 286	16.81 119	33.980 291	13.74 243	16.047 421	40.40 264	39.251 370	42.14 22
	258	88	262	250	374	293	338	27
8 8.1	57.161	15.93	34.242	16.24	16.421	43.33	39.589	42.41
18.1	57.386 225	15.39 54	34.468 226	18.75 251	16.742 321	46.48 315	39.885 296	43.14 73
28.1	57.573 187	15.17 22	34.656 188	21.22 247	17.003 261	49.78 330	40.131 246	44.30 116
	146	10	148	237	200	340	194	154
9 7.0	57.719	15.27	34.804	23.59	17.203	53.18	40.325	45.84
17.0	57.825 106	15.66 39	34.910 106	25.84 225	17.338 135	56.59 341	40.461 136	47.71 187
26.9	57.890 65	16.32 66	34.976 66	27.91 207	17.410 72	59.95 336	40.541 80	49.82 211
	26	86	28	187	9	324	24	227
10 6.9	57.916 —	17.18	35.004 —	29.78	17.419 —	63.19	40.565 —	52.09
16.9	57.908 8	18.21 103	34.998 6	31.42 164	17.369 50	66.25 306	40.537 28	54.43 234
26.9	57.870 38	19.34 113	34.960 38	32.80 138	17.263 106	69.06 281	40.462 75	56.72 229
	65	117	66	111	157	250	115	216
11 5.9	57.805	20.51	34.894	33.91	17.106	71.56	40.347	58.88
15.9	57.721 84	21.68 117	34.805 89	34.73 82	16.903 203	73.67 211	40.198 149	60.82 194
25.8	57.621 100	22.78 110	34.698 107	35.24 51	16.660 243	75.36 169	40.025 173	62.46 164
	110	99	124	19	277	121	190	127
12 5.8	57.511	23.77	34.574	35.43 —	16.383	76.57	39.835	63.73
15.8	57.395 116	24.61 84	34.440 134	35.30 13	16.081 302	77.25 68	39.635 200	64.58 85
25.7	57.277 118	25.28 67	34.299 141	34.86 44	15.762 319	77.40 15	39.434 201	64.98 40
35.7	57.162 115	25.75 47	34.155 144	34.11 75	15.437 325	77.00 40	39.238 196	64.92 6
平位	s 55.386	″ 31.50	s 32.337	″ 12.72	s 13.713	″ 47.44	s 37.558	″ 62.62
sec δ, tan δ	+ 1.049	− 0.318	+ 1.141	+ 0.549	+ 1.933	+ 1.654	+ 1.441	− 1.037
2 回正中	9 月 21 日		9 月 22 日		9 月 23 日		9 月 23 日	
a b	+0.1532	−0.0212	+0.1542	+0.0366	+0.1563	+0.1102	+0.1513	−0.0691
a′ b′	+1.0000	−0.0040	+0.9997	−0.0242	+0.9996	−0.0272	+0.9996	−0.0289
FK 3 番號	905		1		2		3	

本初子午線正中時

星名		22 Andr		x^2 Scul		ϑ Scul		γ Pegs	
等級	スペクトル型	5.08	F 0	5.56	K 0	5.19	F 5	2.87	B 2
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 0 7	° ′ +45 45	h m 0 8	° ′ −28 6	h m 0 8	° ′ −35 26	h m 0 10	° ′ +14 52
		s	″	s	″	s	″	s	″
1	0.7	26.136 215	65.73 87	45.717 134	38.69	55.073 151	46.09 4	22.916 121	37.83 85
	10.7	25.921 207	64.86 128	45.583 124	38.83 14 18	54.922 141	46.05 42	22.795 116	36.98 96
	20.7	25.714 191 165	63.58 165 195	45.459 110 92	38.65 51 82	54.781 125 103	45.63 81 116	22.679 106 91	36.02 104 106
	30.7	25.523	61.93	45.349	38.14	54.656	44.82	22.573	34.98
2	9.6	25.358 132	59.98	45.257 68	37.32	54.553 78	43.66 151	22.482 70	33.92
	19.6	25.226 91	57.82 216 229	45.189 41	36.19 113 142	54.475 47	42.15 180	22.412 43	32.88 104 96
3	1.6	25.135 41	55.53	45.148 7	34.77	54.428 M 28	40.35	22.369 12	31.92 82
	11.5	25.094 14	53.22 231	45.141 29	33.09 168	54.417	38.26 209	22.357 26	31.10 65
	21.5	25.108 71	50.98 224	45.170 70	31.16 193	54.445 71	35.94 232	22.383 65	30.45 41
	31.5	25.179 132	48.92 206 180	45.240 112	29.02 214 231	54.516 117	33.43 251 267	22.448 108	30.04 13
4	10.5	25.311 190	47.12	45.352 156	26.71	54.633 162	30.76 276	22.556 150	29.91 16
	20.4	25.501 244	45.67 145	45.508 197	24.25 246	54.795 318	28.00 280	22.706 190	30.07 48
	30.4	25.745 294	44.61 106 62	45.705 238	21.72 253 257	55.002 207 250	25.20 280 279	22.896 229	30.55 80
5	10.4	26.039	43.99	45.943 272	19.15	55.252 287	22.41	23.125 261	31.35 110
	20.4	26.374 335	43.85 14	46.215 303	16.59 256	55.539 318	19.70 271	23.386 288	32.45 139
	30.3	26.740 366 388	44.18 33 81	46.518 324	14.13 246 233	55.857 343	17.13 257 236	23.674 307	33.84 164
6	9.3	27.128 398	44.99	46.842 339	11.80	56.200 359	14.77	23.981	35.48
	19.3	27.526 399	46.24 125	47.181 344	9.67 213	56.559 365	12.67 210	24.298 317	37.32 184
	29.2	27.925 388	47.90 166 204	47.525 341	7.79 188 158	56.924 362	10.88 179 143	24.618 320 314	39.32 200 211
7	9.2	28.313 368	49.94	47.866	6.21	57.286 350	9.45 104	24.932 301	41.43
	19.2	28.681 339	52.29 235	48.195 329	4.97 124	57.636 328	8.41 61	25.233 279	43.59 216
	29.2	29.020 303	54.90 261 281	48.503 308 281	4.11 86 49	57.964 299	7.80 19	25.512 252	45.74 215 211
8	8.1	29.323 261	57.71	48.784	3.62 8	58.263 262	7.61 25	25.764 220	47.85
	18.1	29.584 215	60.66 295	49.029 245	3.54	58.525 220	7.86 64	25.984 185	49.86 201
	28.1	29.799 167	63.69 303 304	49.236 207 164	3.83 29 65	58.745 175	8.50 103	26.169 147	51.73 187 170
9	7.1	29.966 118	66.73	49.400 119	4.48 96	58.920 126	9.53	26.316 108	53.43
	17.0	30.084 69	69.72 299	49.519 75	5.44 124	59.046 78	10.88 135 161	26.424 72	54.94 151 130
	26.9	30.153 23	72.60 288 273	49.594 33	6.68 144	59.124 31	12.49 180	26.496 36	56.24 107
10	6.9	30.176 21	75.33	49.627 6	8.12	59.155 11	14.29	26.532 4	57.31
	16.9	30.155 61	77.85 252	49.621 40	9.69 157	59.144 50	16.20 191	26.536 25	58.16 85
	26.9	30.094 97	80.11 226 195	49.581 71	11.32 163 163	59.094 83	18.13 193 187	26.511 49	58.79 63 40
11	5.9	29.997 130	82.06 160	49.510 94	12.95	59.011 110	20.00	26.462 71	59.19
	15.9	29.867 156	83.66 121	49.416 112	14.48 153	58.901 131	21.73 173 151	26.391 87	59.37 18 2
	25.8	29.711 180	84.87 78	49.304 126	15.86 138 118	58.770 145	23.24 125	26.304 101	59.35 23
12	5.8	29.531 196	85.65	49.178 133	17.04	58.625 153	24.49	26.203 111	59.12
	15.8	29.335 208	85.99 34 12	49.045 136	17.96 92 63	58.472 156	25.40 91 56	26.092 116	58.71 41 59
	25.8	29.127 212	85.87	48.909 133	18.59	58.316 152	25.96	25.976 118	58.12
	35.7	28.915	85.29 58	48.776	18.91 32	58.164	26.14 18	25.858	57.38 74
平位		s 27.141	″ 58.68	s 46.995	″ 21.40	s 56.404	″ 26.70	s 23.999	″ 40.49
sec δ, tan δ		+ 1.434	+ 1.027	+ 1.134	− 0.534	+ 1.227	− 0.712	+ 1.035	+ 0.266
2回正中		9月23日		9月23日		9月23日		9月24日	
a	b	+0.1556	+0.0684	+0.1520	−0.0356	+0.1515	−0.0474	+0.1541	+0.0177
a′	b′	+0.9995	−0.0325	+0.9993	−0.0383	+0.9992	−0.0390	+0.9990	−0.0454
FK 3番號		4		5		6		7	

1945

本初子午線正中時

星名		† Br 6 Ceph m		ϵ Ceti		ζ Tucn		β Hydi	
等級	スペクトル型	6.23	B 9	3.75	K 0	4.34	F 8	2.90	G 0
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 0 12	° ′ +76 38	h m 0 16	° ′ − 9 7	h m 0 17	° ′ −65 11	h m 0 22	° ′ −77 33
		s	″	s	″	s	″	s	″
1	0.7	63.80 88	56.21	36.371 113	54.25 56	11.43	77.86	51.42 86	76.68
	10.7	62.92 84	55.85 36	36.258 109	54.81 41	11.05 38	77.05 81	50.56 80	75.63 105
	20.7	62.08 79	54.88 97	36.149 98	55.22 25	10.69 36	75.69 136	49.76 73	74.01 162
	30.7	61.29 70	53.34 154 205	36.051 85	55.47 6	10.37 32 28	73.80 189 235	49.03 62	71.84 217 265
2	9.6	60.59 58	51.29	35.966 65	55.53 14	10.09 21	71.45	48.41 50	69.19
	19.6	60.01 44	48.81 248 280	35.901 42	55.39 35	9.88 15	68.70 275 309	47.91 38	66.15 304 337
3	1.6	59.57	46.01	35.859	55.04 58	9.73 8	65.61	47.53	62.78
	11.5	59.30 27	43.02 299	35.848 11	54.46 82	9.65 1	62.25 336	47.30 23	59.17 361
	21.5	59.20 10	39.94 308	35.870 22	53.64 105	9.64 8	58.71 354	47.22 8	55.39 378
	31.5	59.27 7 26	36.91 303 286	35.929 59 99	52.59 129	9.72 15	55.06 365 368	47.29 7 23	51.56 383 384
4	10.5	59.53	34.05	36.028 140	51.30 151	9.87	51.38	47.52 38	47.72
	20.4	59.96 43	31.47 258	36.168 180	49.79 172	10.11 24	47.74 364	47.90 52	43.98 374
	30.4	60.54 58 72	29.26 221 177	36.348 217	48.07 188	10.43 32 40	44.22 352 332	48.42 67	40.41 357 333
5	10.4	61.26	27.49	36.565 250	46.19 202	10.83	40.90	49.09	37.08
	20.4	62.09 83	26.24 125	36.815 250	44.17 210	11.29 46	37.84 306	49.88 79	34.08 300
	30.3	63.00 91 96	25.52 72 15	37.093 278 299	42.07 214	11.80 51 57	35.13 271 232	50.78 90 100	31.46 262 217
6	9.3	63.96	25.37 —	37.392	39.93 211	12.37 60	32.81	51.78	29.29
	19.3	64.95 99	25.79 42	37.704 312	37.82 205	12.97 61	30.95 186	52.83 105	27.61 168
	29.2	65.94 99 96	26.76 97 150	38.021 317 314	35.77 192	13.58 62	29.59 136 83	53.93 110 111	26.46 115 58
7	9.2	66.90	28.26	38.335	33.85 174	14.20 60	28.76	55.04	25.88
	19.2	67.81 91	30.26 200	38.638 303	32.11 152	14.80 60	28.48 28	56.13 109	25.88 0
	29.2	68.64 83 74	32.69 243 283	38.922 284 259	30.59 127	15.38 58 52	28.75 27 82	57.17 104 97	26.45 57 112
8	8.1	69.38	35.52	39.181	29.32	15.90	29.57	58.14	27.57
	18.1	70.02 64	38.67 315	39.409 228	28.33 99 71	16.37 47	30.90 133	59.00 86	29.22 165
	28.1	70.54 52 38	42.08 341 360	39.602 193 156	27.62 40	16.76 39 31	32.69 179 219	59.72 72 57	31.32 210 250
9	7.1	70.92	45.68	39.758	27.22	17.07	34.88	60.29	33.82
	17.0	71.18 26	49.40 372	39.876 118	27.09 13 15	17.29 22	37.39 251	60.69 40	36.60 278
	26.9	71.29 11 2	53.16 376 373	39.955 79 43	27.24 37	17.41 12 3	40.12 273 284	60.90 21 3	39.58 298 307
10	6.9	71.27	56.89	39.998	27.61	17.44 —	42.96	60.93 —	42.65
	16.9	71.11 16	60.50 361	40.008 10	28.18 57 73	17.38 6	45.80 284	60.78 15	45.68 303
	26.9	70.82 29 42	63.91 341 313	39.989 19 46	28.91 83	17.23 15 23	48.53 273 250	60.45 33 49	48.55 287 259
11	5.9	70.40	67.04	39.943	29.74 88	17.00	51.03	59.96	51.14
	15.9	69.86 54	69.82 278	39.876 67	30.62 91	16.72 28	53.19 216	59.33 63	53.34 220
	25.8	69.22 64 73	72.17 235 184	39.793 83 96	31.53 88	16.38 34 38	54.94 175 124	58.59 74 82	55.06 172 118
12	5.8	68.49 81	74.01 128	39.697	32.41 82	16.00	56 18 70	57.77 87	56.24 57
	15.8	67.68 85	75.29 69	39.592 105	33.23 74	15.61 39	56.88 12	56.90 89	56.81 5
	25.8	66.83 88	75.93 6	39.482 110	33.97 62	15.21 40	57.00 47	56.01 88	56.76 68
	35.7	65.95	76.04	39.371 111	34.59	14.81 40	56.53	55.13	56.98
平位		s 64.522	″ 43.32	s 37.501	″ 43.03	s 13.130	″ 52.18	s 53.652	″ 49.79
sec δ, tan δ		+ 4.329	+ 4.212	+ 1.013	− 0.161	+ 2.384	− 2.164	+ 4.644	− 4.535
2回正中		9月24日		9月25日		9月25日		9月27日	
a	b	+0.1693	+0.2804	+0.1526	−0.0107	+0.1425	−0.1439	+0.1232	−0.3008
a′	b′	+0.9984	−0.0570	+0.9974	−0.0725	+0.9972	−0.0751	+0.9950	−0.0997
FK 3番號		8		9		10		11	

星名 / 等級 / スペクトル型		α Phoe 2.44 K0		12 Ceti 6.04 K5		49 G. Ceti 5.23 A3		λ¹ Phoe 4.88 A2	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 0 23	° ′ −42 35	h m 0 27	° ′ − 4 15	h m 0 27	° ′ −24 5	h m 0 28	° ′ −49 6
		s	″	s	″	s	″	s	″
1	0.7	32.956 184	97.42 9	12.808 114	49.02 63	36.630 132	46.39 33	44.862 222	49.73 21
	10.7	32.772 175	97.33 53	12.694 112	49.65 54	36.498 127	46.72 4	44.640 212	49.52 69
	20.7	32.597 159	96.80 96	12.582 103	50.19 42	36.371 117	46.76 27	44.428 193	48.83 117
	30.7	32.438 137	95.84 138	12.479 92	50.61 27	36.254 103	46.49 57	44.235 169	47.66 162
2	9.6	32.301	94.46	12.387	50.88	36.151	45.92	44.066	46.04
	19.6	32.191 110 76	92.70 176 210	12.313 74 51	50.99 11 9	36.068 83 58	45.05 87 116	43.928 138 101	44.02 202 237
3	1.6	32.115	90.60	12.262	50.90	36.010	43.89	43.827	41.65
	11.6	32.076 39	88.21 239	12.240 22	50.61 29	35.983 27	42.45 144	43.769 58	38.97 268
	21.5	32.081 5	85.57 264	12.251 11	50.09 52	35.991 8	40.76 169	43.760 9	36.04 293
	31.5	32.133 52 101	82.74 283 298	12.299 48 88	49.33 76 101	36.038 47 89	38.84 192 213	43.802 42 97	32.93 311 323
4	10.5	32.234	79.76	12.387	48.32	36.127	36.71	43.899	29.70
	20.4	32.386 152	76.70 306	12.517 130	47.08 124	36.259 132	34.42 229	44.052 153	26.40 330
	30.4	32.588 202 249	73.63 307 302	12.687 170 208	45.61 147 168	36.434 175 216	31.99 243 249	44.261 209 262	23.12 328 319
5	10.4	32.837	70.61	12.895 242	43.93 184	36.650	29.50	44.523	19.93
	20.4	33.130 293	67.70 291	13.137 241	42.09 184	36.902 252	26.98 252	44.833 310	16.88 305
	30.3	33.459 329 358	64.98 272 248	13.408 271 293	40.11 198 205	37.186 284 308	24.49 249 239	45.185 352 385	14.06 282 253
6	9.3	33.817	62.50	13.701	38.06	37.494	22.10	45.570	11.53
	19.3	34.197 380	60.33 217	14.009 308	35.97 209	37.819 325	19.86 224	45.980 410	9.35 218
	29.3	34.587 390 391	58.53 180 140	14.323 314 313	33.91 206 199	38.153 334 333	17.83 203 177	46.404 424 427	7.58 177 132
7	9.2	34.978	57.13	14.636	31.92	38.486	16.06	46.831	6.26
	19.2	35.360 382	56.18 95	14.938 302	30.06 186	38.811 325	14.60 146	47.250 419	5.42 84
	29.2	35.722 362 334	55.70 48 1	15.224 286 262	28.38 168 148	39.118 307 284	13.49 111 75	47.648 398 370	5.08 34 17
8	8.1	36.056	55.69 —	15.486	26.90	39.402	12.74	48.018	5.25
	18.1	36.352 296	56.15 46	15.719 233	25.68 122	39.654 252	12.37 37	48.347 329	5.92 67
	28.1	36.605 253 204	57.06 91 132	15.918 199 164	24.72 96 69	39.870 216 177	12.38 1 38	48.630 283 230	7.05 113 156
9	7.1	36.809	58.38	16.082	24.03	40.047	12.76	48.860	8.61
	17.0	36.962 153	60.04 166	16.208 126	23.61 42	40.183 136	13.47 71	49.031 171	10.53 192
	27.0	37.062 100 47	61.99 195 215	16.298 90 54	23.45 16 9	40.277 94 54	14.46 99 124	49.144 113 53	12.73 220 240
10	6.9	37.109 —	64.14	16.352	23.54	40.331	15.70	49.197 —	15.13
	16.9	37.108 1	66.39 225	16.373 21	23.83 29	40.347 16	17.10 140	49.194 3	17.62 249
	26.9	37.061 47 87	68.66 227 218	16.365 8	24.30 47 60	40.328 19 48	18.61 151 153	49.139 55 103	20.10 248 237
11	5.9	36.974	70.84	16.331 34	24.90	40.280	20.14	49.036	22.47
	15.9	36.855 119	72.85 201	16.275 56	25.60 70	40.206 74	21.64 150	48.894 142	24.63 216
	25.8	36.709 146 166	74.60 175 143	16.200 75 88	26.36 76 77	40.112 94 109	23.04 140 123	48.720 174 198	26.49 186 149
12	5.8	36.543	76.03	16.112	27.13	40.003	24.27	48.522	27.98
	15.8	36.364 179	77.07 104	16.012 100	27.90 77	39.882 121	25.29 102	48.308 214	29.04 106
	25.8	36.179 185	77.69 62	15.906 106	28.63 73	39.755 127	26.06 77	48.086 222	29.62 58
	35.7	35.995 184	77.87 18	15.795 111	29.30 67	39.625 130	26.56 50	47.864 222	29.71 9
平位		s 34.209	″ 75.89	s 13.855	″ 39.37	s 37.746	″ 30.04	s 46.113	″ 26.63
sec δ, tan δ		+ 1.359	— 0.920	+ 1.003	− 0.075	+ 1.095	− 0.447	+ 1.528	− 1.155
2 回正中		9 月 27 日		9 月 28 日		9 月 28 日		9 月 28 日	
a	b	+0.1470	−0.0610	+0.1527	−0.0049	+0.1497	−0.0296	+0.1437	−0.0764
a′	b′	+0.9947	−0.1027	+0.9930	−0.1185	+0.9927	−0.1203	+0.9921	−0.1252
FK 3 番號		12		13		14		15	

星名 / 等級 / スペクトル型		κ Cass 4.24 B0		ζ Cass 3.72 B3		π Andr 4.44 B3		ε Andr 4.52 G5	
世界時		赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月	日	h m 0 29	° ′ +62 37	h m 0 33	° ′ +53 35	h m 0 33	° ′ +33 24	h m 0 35	° ′ +29 0
		s	″	s	″	s	″	s	″
1	0.8	50.53	53.58	52.815	49.12	55.273	63.94	37.663	50.36
	10.7	50.14 39	53.19 39	52.542 273	48.63 49	55.111 162	63.24 70	37.514 149	49.64 72
	20.7	49.76 38	52.26 93	52.270 272	47.67 96	54.949 162	62.23 101	37.363 151	48.66 98
	30.7	49.40 36 33	50.81 145 189	52.010 260 236	46.25 142 180	54.794 155 140	60.96 127 148	37.219 144 131	47.46 120 138
2	9.6	49.07	48.92	51.774	44.45	54.654	59.48	37.088	46.08
	19.6	48.80 27 22	46.65 227 254	51.572 202 155	42.33 212 233	54.535 119 88	57.84 164 171	36.978 110 83	44.59 149 153
3	1.6	48.58	44.11	51.417	40.00	54.447	56.13	36.895	43.06
	11.6	48.44 14	41.41 270	51.317 100	37.54 246	54.395 52	54.43 170	36.846 49	41.55 151
	21.5	48.39 5	38.65 276	51.281 36	35.07 247	54.387 8	52.81 162	36.839 7	40.15 140
	31.5	48.42 3 13	35.95 270 252	51.314 33 104	32.69 238 220	54.426 39 89	51.35 146 122	36.876 37 85	38.93 122 99
4	10.5	48.55	33.43	51.418	30.49	54.515	50.13	36.961	37.94
	20.5	48.76 21	31.18 225	51.593 175	28.58 191	54.656 141	49.20 93	37.096 135	37.24 70
	30.4	49.06 30 38	29.29 189 147	51.835 242 303	27.03 155 114	54.846 190 235	48.62 58 21	37.277 181 226	36.88 36 0
5	10.4	49.44	27.82	52.138	25.89	55.081	48.41 —	37.503	36.88 —
	20.4	49.88 44	26.84 98	52.494 356	25.21 68	55.356 275	48.60 19	37.767 264	37.25 37
	30.3	50.37 49 53	26.36 48 6	52.892 398 429	25.01 20 30	55.665 309 332	49.18 58 97	38.063 296 321	37.99 74 109
6	9.3	50.90	26.42	53.321	25.31	55.997	50.15	38.384	39.08
	19.3	51.44 54	26.99 57	53.769 448	26.09 78	56.345 348	51.48 133	38.719 335	40.50 142
	29.3	52.00 56 55	28.08 109 156	54.224 455 449	27.34 125 167	56.699 354 351	53.13 165 193	39.062 343 339	42.21 171 195
7	9.2	52.55	29.64	54.673	29.01	57.050	55.06	39.401	44.16
	19.2	53.07 52	31.65 201	55.106 433	31.07 206	57.388 338	57.22 216	39.730 329	46.30 214
	29.2	53.56 49 45	34.04 239 274	55.511 405 371	33.47 240 268	57.707 319 292	59.56 234 246	40.039 309 284	48.59 229 236
8	8.2	54.01	36.78	55.882	36.15	57.999	62.02	40.323	50.95
	18.1	54.40 39	39.79 301	56.209 327	39.05 290	58.257 258	64.55 253	40.575 252	53.35 240
	28.1	54.73 33 26	43.01 322 336	56.489 280 228	42.11 306 316	58.480 223 183	67.09 254 251	40.793 218 180	55.73 238 232
9	7.1	54.99	46.37	56.717	45.27	58.663	69.60	40.973	58.05
	17.0	55.19 20	49.81 344	56.891 174	48.46 319	58.806 143	72.02 242	41.113 140	60.26 221
	27.0	55.32 13 6	53.26 345 340	57.010 119 66	51.62 316 307	58.908 102 63	74.32 230 213	41.215 102 64	62.32 206 189
10	6.9	55.38 —	56.66	57.076	54.69	58.971	76.45	41.279	64.21
	16.9	55.37 1	59.92 326	57.089 13	57.61 292	58.997 26	78.39 194	41.308 29	65.90 169
	26.9	55.29 8 14	62.97 305 279	57.053 36 84	60.32 271 244	58.988 9 41	80.10 171 145	41.303 5 34	67.35 145 121
11	5.9	55.15	65.76	56.969	62.76	58.947	81.55	41.269	68.56
	15.9	54.96 19	68.22 246	56.843 126	64.87 211	58.879 68	82.71 116	41.208 61	69.51 95
	25.8	54.71 25 29	70.27 205 159	56.677 166 201	66.61 174 131	58.785 94 115	83.57 86 54	41.123 85 105	70.17 66 37
12	5.8	54.42	71.86	56.476	67.92	58.670	84.11	41.018	70.54
	15.8	54.09 33	72.95 109	56.247 229	68.76 84	58.537 133	84.31 20	40.896 122	70.61 7
	25.8	53.72 37	73.49 54	55.995 252	69.11 35	58.391 146	84.17 14	40.761 135	70.38 23
	35.7	53.35 37	73.47 2	55.730 265	68.96 15	58.235 156	83.69 48	40.617 144	69.85 53
平位		s 51.262	″ 42.86	s 53.599	″ 40.32	s 56.163	″ 60.67	s 38.560	″ 48.51
sec δ, tan δ		+ 2.175	+ 1.931	+1.635	+ 1.356	+ 1.193	+ 0.660	+ 1.144	+ 0.555
2 回正中		9 月 29 日		9 月 30 日		9 月 30 日		9 月 30 日	
a	b	+0.1701	+0.1277	+0.1667	+0.0894	+0.1593	+0.0435	+0.1591	+0.0365
a′	b′	+0.9915	−0.1299	+0.9391	−0.1474	+0.9891	−0.1475	+0.9879	−0.1549
FK 3 番號		16		17		18		19	

星名	δ Andr		α Cass		β Ceti		η Phoe	
等級	3.49		2.1—2.6		2.24		4.53	
スペクトル型	K2		K0		K0		A0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 0 36	° ′ +30 33	h m 0 37	° ′ +56 13	h m 0 40	° ′ −18 17	h m 0 40	° ′ −57 45
	s	″	s	″	s	″	s	″
1 0.8	21.921	39.37	21.535	79.25	48.759	32.03	52.193	76.54
10.7	21.768 153	38.67 70	21.236 299	78.85 40	48.633 126	32.53 50	51.889 304	76.26 28
20.7	21.614 154	37.69 98	20.937 299	77.94 91	48.509 124	32.77 24	51.597 292	75.44 82
30.7	21.467 147 135	36.48 121 141	20.651 286 262	76.57 137 178	48.391 118 106	32.76 1 29	51.326 271 242	74.10 134 183
2 9.6	21.332	35.07	20.389	74.79	48.285	32.47	51.084	72.27
19.6	21.218 114 85	33.54 153 159	20.165 224 176	72.66 213 237	48.196 89 67	31.92 55 83	50.880 204 159	70.00 227 265
3 1.6	21.133	31.95	19.989	70.29	48.129	31.09	50.721	67.35
11.6	21.083 50	30.39 156	19.874 115	67.78 251	48.092 37	30.00 109	50.614 107	64.38 297
21.5	21.074 9	28.91 148	19.826 48	65.23 255	48.087 5	28.65 135	50.565 49	61.16 322
31.5	21.111 37 86	27.60 131 107	19.851 25 102	62.75 248 230	48.120 33 75	27.06 159 182	50.578 13 80	57.76 340 351
4 10.5	21.197	26.53	19.953	60.45	48.195	25.24	50.658	54.25
20.5	21.333 136	25.75 78	20.130 177	58.41 204	48.312 117	23.22 202	50.806 148	50.70 355
30.4	21.516 183 228	25.31 44 8	20.379 249 315	56.73 168 128	48.471 159 200	21.05 217 230	51.020 214 279	47.19 351 340
5 10.4	21.744	25.23 —	20.694	55.45 81	48.671	18.75	51.299	43.79
20.4	22.012 268	25.53 30	21.065 371	54.64 81	48.909 238	16.37 238	51.638 339	40.59 320
30.3	22.312 300 324	26.21 68 105	21.481 416 451	54.31 33 17	49.178 269 295	13.98 239 236	52.030 392 435	37.64 295 261
6 9.3	22.636	27.26	21.932	54.48	49.473	11.62	52.465	35.03
19.3	22.977 341	28.63 137	22.403 471	55.15 67	49.786 313	9.35 227	52.934 469	32.81 222
29.3	23.323 346 344	30.32 169 193	22.882 479 473	56.30 115 159	50.109 323 325	7.24 211 191	53.423 489 498	31.04 177 128
7 9.2	23.667	32.25	23.355	57.89	50.434	5.33	53.921	29.76
19.2	24.000 333	34.40 215	23.813 458	59.89 200	50.752 318	3.68 165	54.415 494	29.01 75
29.2	24.314 314 288	36.69 229 240	24.243 430 393	62.24 235 266	51.055 303 281	2.33 135 102	54.890 475 444	28.80 21 34
8 8.2	24.602	39.09	24.636	64.90	51.336	1.31	55.334	29.14
18.1	24.858 256	41.53 244	24.985 349	67.80 290	51.589 253	0.63 68	55.735 401	30.01 87
28.1	25.079 221 183	43.97 244 238	25.284 299 245	70.88 308 320	51.809 220 184	0.31 32 3	56.082 347 286	31.38 137 181
9 7.1	25.262	46.35	25.529	74.08	51.993	0.34	56.368	33.19
17.0	25.406 144	48.63 228	25.717 188	77.34 326	52.138 145	0.70 36	56.586 218	35.38 219
27.0	25.510 104 66	50.78 215 198	25.848 131 73	80.58 324 317	52.245 107 68	1.36 66 91	56.732 146 72	37.87 249 269
10 6.9	25.576	52.76	25.921	83.75	52.313	2.27	56.804	40.56
16.9	25.606 30	54.54 178	25.939 18	86.78 303	52.345 32	3.38 111	56.805 1	43.33 277
26.9	25.602 4 34	56.09 155 130	25.902 37 87	89.61 283 257	52.344 1 30	4.63 125 132	56.739 66 128	46.08 275 262
11 5.9	25.568	57.39	25.815	92.18	52.314	5.95	56.611	48.70
15.9	25.506 62	58.42 103	25.680 135	94.43 225	52.259 55	7.28 133	56.429 182	51.07 237
25.9	25.420 86 107	59.16 74 44	25.502 178 217	96.30 187 144	52.182 77 94	8.57 129 118	56.203 226 261	53.10 203 162
12 5.8	25.313	59.60 12	25.285	97.74 96	52.088	9.75	55.942	54.72
15.8	25.189 124	59.72 19	25.037 248	98.70 47	51.982 106	10.78 103	55.656 286	55.85 113
25.8	25.051 138	59.53 19	24.763 274	99.17 47	51.866 116	11.62 84	55.357 299	56.45 60
35.7	24.904 147	59.03 50	24.473 290	99.11 6	51.744 122	12.24 62	55.054 303	56.50 5
平位	s 22.808	″ 37.03	s 22.271	″ 69.89	s 49.761	″ 17.42	s 53.361	″ 51.64
sec δ, tan δ	+ 1.161	+ 0.590	+ 1.799	+ 1.496	+ 1.053	− 0.331	+ 1.875	− 1.586
2 回正中	9 月 30 日		10 月 1 日		10 月 1 日		10 月 1 日	
a b	+0.1596	+0.0389	+0.1695	+0.0984	+0.1494	−0.0217	+0.1346	−0.1040
a′ b′	+0.9374	−0.1581	+0.9867	−0.1623	+0.9842	−0.1772	+0.9841	−0.1775
FK3番號	20		21		22		23	

星名	λ² Scul		o Cass		21 Cass		ζ Andr	
等級	5.97		4.70		5.59		4.30	
スペクトル型	K0		B2		A2		K0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 0 41	° ′ −38 43	h m 0 41	° ′ +47 58	h m 0 41	° ′ +74 40	h m 0 44	° ′ +23 57
	s	″	s	″	s	″	s	″
1 0.8	31.639	48.33	38.160	68.80	58.27	88.71	24.197	66.16
10.7	31.465 174	48.48 15	37.931 229	68.32 48	57.52 75	88.73 2	24.058 139	65.48 68
20.7	31.295 170	48.20 28	37.700 231	67.41 91	56.78 74	88.13 60	23.918 140	64.59 89
30.7	31.135 160 142	47.49 71 111	37.477 223 205	66.09 132 166	56.06 72 65	86.94 119 172	23.781 137 125	63.53 106 119
2 9.6	30.993	46.38	37.272	64.43	55.41	85.22	23.656	62.34
19.6	30.872 121 92	44.88 150 185	37.095 177 138	62.48 195 214	54.84 57 46	83.03 219 255	23.547 109 83	61.07 127 128
3 1.6	30.780	43.03	36.957	60.34	54.38	80.48	23.464	59.79
11.6	30.724 56	40.87 216	36.866 91	58.10 224	54.05 33	77.66 282	23.413 51	58.57 122
21.5	30.706 18	38.43 244	36.830 36	55.85 225	53.87 18	74.70 296	23.399 14	57.45 112#
31.5	30.733 27 74	35.76 267 284	36.855 25 87	53.70 215 196	53.85 2 13	71.72 298 288	23.428 29 75	56.51 94 70
4 10.5	30.807	32.92	36.942	51.74	53.98	68.84	23.503	55.81
20.5	30.931 124	29.96 296	37.094 152	50.06 168	54.27 29	66.17 267	23.625 122	55.39 42
30.4	31.104 173 220	26.94 302 302	37.306 212 269	48.71 135 94	54.71 44 56	63.82 235 197	23.793 168 211	55.28 11 22
5 10.4	31.324	23.92	37.575	47.77	55.27	61.85	24.004	55.50
20.4	31.587 263	20.97 295	37.893 318	47.26 51	55.95 68	60.35 150	24.254 250	56.07 57
30.3	31.889 302 332	18.15 282 261	38.251 358 388	47.20 6 41	56.72 77 83	59.36 99 46	24.536 282 308	56.97 90 122
6 9.3	32.221	15.54	38.639	47.61	57.55	58.90 —	24.844	58.19
19.3	32.577 356	13.20 234	39.047 408	47.47 86	58.43 88	59.00 10	25.168 324	59.68 149
29.3	32.946 369 374	11.18 202 165	39.463 416 412	49.76 129 168	59.32 89 88	59.64 64 117	25.500 332 331	61.43 175 194
7 9.2	33.320	9.53	39.875	51.44	60.20	60.81	25.831	63.37
19.2	33.687 367	8.31 122	40.275 400	53.48 204	61.06 86	62.49 168	26.153 322	65.46 209
29.2	34.040 353 328	7.53 78 31	40.652 377 347	55.81 233 258	61.87 81 74	64.62 213 255	26.458 305 283	67.65 219 223
8 8.2	34.368	7.22 —	40.999	58.39	62.61	67.17	26.741	69.88
18.1	34.665 297	7.38 16	41.308 309	61.17 278	63.26 65	70.07 290	26.994 253	72.11 223
28.1	34.923 258 214	7.98 60 104	41.575 267 222	64.06 289 298	63.82 56 46	73.27 320 343	27.214 220 185	74.29 218 208
9 7.1	35.137	9.02	41.797	67.04	64.28	76.70	27.399	76.37
17.0	35.304 167	10.43 141	41.970 173	70.02 298	64.63 35	80.29 359	27.546 147	78.32 195
27.0	35.422 118 70	12.15 172 196	42.095 125 78	72.95 293 284	64.86 23 11	83.96 367 370	27.656 110 74	80.11 179 160
10 6.9	35.492	14.11	42.173	75.79	64.97 —	87.66	27.730	81.71
16.9	35.516 24	16.23 212	42.204 31	78.47 268	64.96 1	91.29 363	27.770 40	83.12 141
26.9	35.497 19 58	18.41 218 214	42.191 13 55	80.94 247 222	64.83 13 25	94.77 348 326	27.778 8 21	84.30 118 95
11 5.9	35.439	20.55	42.136	83.16	64.58	98.03	27.757	85.25
15.9	35.347 92	22.58 203	42.043 93	85.07 191	64.22 36	100.99 296	27.710 47	85.97 72
25.9	35.228 119 141	24.39 181 154	41.915 128 159	86.62 155 116	63.76 46 55	103.57 258 212	27.639 71 91	86.44 47 22
12 5.8	35.087	25.93	41.756	87.78	63.21	105.69	27.548	86.66 —
15.8	34.930 157	27.13 120	41.571 185	88.52 74	62.58 63	107.29 160	27.441 107	86.62 4
25.8	34.763 167	27.94 81	41.364 207	88.81 29	61.88 70	108.32 103	27.319 122	86.34 28
35.7	34.592 171	28.34 40	41.143 221	88.64 17	61.15 73	108.74 42	27.188 131	85.81 53
平位	s 32.699	″ 27.58	s 38.930	″ 61.45	s 58.589	″ 76.27	s 25.061	″ 66.06
sec δ, tan δ	+ 1.282	− 0.802	+ 1.494	+ 1.110	+ 3.787	+ 3.653	+ 1.094	+ 0.445
2 回正中	10 月 2 日		10 月 2 日		10 月 2 日		10 月 2 日	
a b	+0.1437	−0.0526	+0.1667	+0.0728	+0.1977	+0.2394	+0.1590	+0.0291
a′ b′	+0.9836	−0.1803	+0.9835	−0.1807	+0.9833	−0.1821	+0.9813	−0.1926
FK3番號	26		25		24		27	

星名	δ Pisc		λ Hydi		Br 82 Cass		φ² Ceti	
等級	4.55		4.96		5.45		5.24	
スペクトル型	K 5		K 5		F 2, A 2		F 5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 0 45	° ′ + 7 16	h m 0 46	° ′ −75 12	h m 0 47	° ′ +63 56	h m 0 47	° ′ −10 56
	s	″	s	″	s	″	s	″
1 0.8	48.640 118	64.24	40.07	103.35	21.51	65.63	21.320 120	36.63
10.7	48.522 119	63.53 71	39.32 75	107.72 63	21.11 40	65.50 13	21.200 121	37.24 61
20.7	48.403 116	62.81 72	38.59 73	106.50 122	20.70 41	64.81 69	21.079 117	37.67 43
30.7	48.287 107	62.09 72 69	37.92 67 61	104.71 179 231	20.30 40 36	63.59 122 170	20.962 106	37.91 24 3
2 9.7	48.180	61.40	37.31	102.40	19.94	61.89	20.856	37.94 20
19.6	48.088 92 69	60.79 61 50	36.79 52 42	99.65 275 312	19.62 32 26	59.78 211 241	20.764 92 70	37.74 42
3 1.6	48.019	60.29	36.37	96.53	19.36	57.37	20.694	37.32
11.6	47.977 42	59.94 35	36.07 30	93.10 343	19.18 18	54.74 263	20.651 43	36.65 67
21.5	47.968 9	59.78 16	35.88 19	89.46 364	19.03 10	52.00 274	20.641 10	35.74 91
31.5	47.998 30 70	59.83 5 30	35.82 6 8	85.68 378 383	19.08 0 9	49.29 271 259	20.667 26 67	34.59 115 139
4 10.5	48.068	60.13	35.90	81.85	19.17	46.70	20.734	33.20
20.5	48.182 114	60.69 56	36.11 21	78.05 380	19.36 19	44.33 237	20.843 109	31.59 161
30.4	48.338 156 197	61.51 82 110	36.45 34 47	74.35 370 350	19.64 28 36	42.29 204 164	20.991 151 191	29.77 182 197
5 10.4	48.535	62.61	36.92	70.85	20.00	40.65	21.185	27.80
20.4	48.768 233	63.94 133	37.50 58	67.61 324	20.44 44	39.45 120	21.414 229	25.69 211
30.4	49.032 264 288	65.50 156 175	38.19 69 79	64.71 290 249	20.93 49 54	38.75 70 19	21.674 260 285	23.50 219 222
6 9.3	49.320 305	67.25 188	38.98 85	62.22 203	21.47 57	38.56 — 33	21.959 304	21.28 220
19.3	49.625 314	69.13 198	39.83 90	60.19 152	22.04 57	38.89 84	22.263 314	19.08 211
29.3	49.939 314	71.11 201	40.73 92	58.67 97	22.61 58	39.73 133	22.577 316	16.97 198
7 9.2	50.253	73.12	41.65	57.70	23.19	41.06	22.893	14.99
19.2	50.560 307	75.13 201	42.58 93	57.31 39	23.75 56	42.85 179	23.204 311	13.20 179
29.2	50.851 291 271	77.07 194 184	43.48 90 85	57.50 19 77	24.28 53 49	45.04 219 256	23.500 296 276	11.64 156 128
8 8.2	51.122	78.91	44.33	58.27	24.77	47.60	23.776	10.36
18.1	51.366 244	80.59 168	45.10 77	59.58 131	25.21 44	50.46 286	24.025 249	9.37 99
28.1	51.578 212 179	82.10 151 129	45.77 67 55	61.41 183 226	25.58 37 32	53.57 311 328	24.243 218 183	8.69 68 36
9 7.1	51.757	83.39	46.32	63.67	25.90	56.85	24.426	8.33
17.1	51.901 144	84.47 108	46.74 42	66.30 263	26.14 24	60.25 340	24.573 147	8.28 5
27.0	52.009 108 74	85.31 84 61	47.00 26 11	69.19 289 305	26.32 18 10	63.69 344 342	24.683 110 74	8.51 23 49
10 6.9	52.083	85.92	47.11 —	72.24	26.42	67.11	24.757	9.00
16.9	52.124 41	86.32 40	47.06 5	75.33 309	26.45 3	70.44 333	24.797 40	9.71 71
26.9	52.136 12 16	86.52 20 0	46.86 20 34	78.32 299 280	26.41 4 10	73.60 316 293	24.805 8 20	10.58 87 99
11 5.9	52.120	86.52 —	46.52	81.12	26.31	76.53	24.785	11.57
15.9	52.031 39	86.37 15	46.06 46	83.58 246	26.14 17	79.15 262	24.741 44	12.61 104
25.9	52.021 60 77	86.08 29 42	45.48 58 65	85.63 205 154	25.91 23 29	81.40 225 182	24.675 66 83	13.67 106 102
12 5.8	51.944	85.66	44.83	87.17	25.62	83.22	24.592	14.69
15.8	51.851 93	85.14 52	44.11 72	88.15 98	25.29 33	84.55 133	24.495 97	15.63 94
25.8	51.748 103	84.55 59	43.36 75	88.51 36	24.93 36	85.35 80	24.387 108	16.46 83
35.7	51.636 112	83.89 66	42.60 76	88.26 25	24.53 40	85.59 24	24.272 115	17.15 69
平位	s 49.546	″ 69.97	s 41.341	″ 81.34	s 22.066	″ 54.85	s 22.260	″ 24.44
sec δ, tan δ	+ 1.008	+ 0.128	+ 3.920	− 3.791	+ 2.277	+ 2.046	+ 1.019	− 0.193
2 回正中	10 月 3 日		10 月 3 日		10 月 3 日		10 月 3 日	
a b	+0.1550	+0.0034	+0.1022	−0.2475	+0.1813	+0.1335	+0.1507	−0.0126
a′ b′	+0.9801	−0.1986	+0.9793	−0.2023	+0.9787	−0.2052	+0.9787	−0.2052
FK3番號	28		31		29		30	

星名	λ² Tucn		γ Cass		μ Andr		α Scul	
等級	5.34		2.25		3.94		4.39	
スペクトル型	K 0		B 0p		A 2		B 5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 0 52	° ′ −69 49	h m 0 53	° ′ +60 24	h m 0 53	° ′ +38 11	h m 0 55	° ′ −29 38
	s	″	s	″	s	″	s	″
1 0.8	56.40	53.74	21.64	79.90	40.751	69.86	56.503 150	93.81
10.7	55.86 54	53.33 41	21.29 35	79.77 13	40.573 178	69.38 48	56.353 150	94.24 43
20.7	55.34 52	52.33 100	20.94 35	79.11 66	40.390 183	68.54 84	56.203 150	94.30 6
30.7	54.86 48 45	50.76 157 208	20.59 35 32	77.95 116 163	40.211 179 168	67.39 115 142	56.058 145 133	94.00 30 67
2 9.7	54.41	48.68	20.27	76.32	40.043	65.97	55.925	93.33
19.6	54.03 38 31	46.13 255 294	19.99 28 23	74.31 201 232	39.896 147 118	64.34 163 177	55.809 116 93	92.31 102 135
3 1.6	53.72	43.19	19.76	71.99	39.778	62.57	55.716	90.96
11.6	53.49 23	39.92 327	19.59 17	69.47 252	39.697 81	60.75 182	55.653 63	89.29 167
21.5	53.34 15	36.41 351	19.50 9	66.86 261	39.662 35	58.95 180	55.625 28	87.34 195
31.5	53.30 4 5	32.73 368 377	19.49 1 8	64.26 260 248	39.676 14 69	57.27 168 149	55.637 12 55	85.15 219 242
4 10.5	53.35	28.96	19.57	61.78	39.745	55.78	55.692	82.73
20.5	53.50 15	25.19 377	19.74 17	59.53 225	39.868 123	54.55 123	55.794 102	80.15 258
30.4	53.75 25 35	21.49 370 354	19.98 24 32	57.59 194 156	40.046 178 228	53.64 91 55	55.941 147 193	77.44 271 277
5 10.4	54.10	17.95	20.30	56.03	40.274	53.09	56.134	74.67
20.4	54.54 44	14.63 332	20.69 39	54.92 111	40.547 273	52.94 15	56.368 234	71.89 278
30.4	55.07 53 59	11.62 301 263	21.14 45 48	54.28 64 14	40.857 310 340	53.19 25 65	56.638 270 301	69.17 272 260
6 9.3	55.66	8.99	21.62	54.14 —	41.197	53.84	56.939	66.57
19.3	56.31 65	6.80 219	22.13 51	54.51 37	41.556 359	54.88 104	57.263 324	64.15 242
29.3	56.99 68 71	5.10 170 117	22.66 53 53	55.36 85 133	41.926 370 369	56.28 140 172	57.601 338 343	61.97 218 187
7 9.2	57.70	3.93 60	23.19	56.69	42.295	58.00	57.944	60.10
19.2	58.41 71	3.33	23.70 51	58.46 177	42.657 362	60.00 200	58.284 340	58.58 152
29.2	59.10 69 66	3.30 3 55	24.19 49 45	60.62 216 251	43.000 343 319	62.22 222 241	58.613 329 308	57.44 114 73
8 8.2	59.76	3.85	24.64	63.13	43.319	64.63	58.921	56.71
18.1	60.35 59	4.96 111	25.05 41	65.93 280	43.607 288	67.15 252	59.201 280	56.42 29
28.1	60.88 53 43	6.59 163 209	25.40 35 30	68.95 302 319	43.860 253 213	69.74 259 261	59.449 248 210	56.55 13 54
9 7.1	61.31	8.68	25.70	72.14	44.073	72.35	59.659	57.09
17.1	61.65 34	11.16 248	25.94 24	75.43 329	44.246 173	74.92 257	59.828 169	58.02 93
27.0	61.87 22 12	13.93 277 296	26.11 17 12	78.75 332 330	44.378 132 91	77.41 249 237	59.955 127 85	59.27 125 152
10 6.9	61.99 —	16.89	26.23	82.05	44.469	79.78	60.040	60.79
16.9	61.98 1	19.93 304	26.27 4	85.26 321	44.520 51	81.98 220	60.084 44	62.51 172
26.9	61.87 11 22	22.92 299 282	26.26 1 7	88.30 304 282	44.534 14 21	83.98 200 176	60.090 6 29	64.35 184 188
11 5.9	61.65	25.74	26.19	91.12	44.513	85.74	60.061	66.23
15.9	61.34 31	28.28 254	26.06 13	93.64 252	44.459 54	87.23 149	60.003 58	68.06 183
25.9	60.96 38 45	30.44 216 168	25.87 19 23	95.80 216 175	44.375 84 111	88.41 118 86	59.917 86 106	69.76 170 151
12 5.8	60.51	32.12	25.64	97.55	44.264	89.27	59.811	71.27
15.8	60.01 50	33.26 114	25.36 28	98.83 128	44.130 134	89.77 50	59.687 124	72.53 126
25.8	59.48 53	33.82 56	25.05 31	99.60 77	43.976 154	89.91 14	59.551 136	73.49 96
35.8	58.95 53	33.77 5	24.72 33	99.83 23	43.808 168	89.67 24	59.406 145	74.11 62
平位	s 57.439	″ 27.15	s 22.194	″ 69.87	s 41.503	″ 65.36	s 57.417	″ 75.52
sec δ, tan δ	+ 2.899	− 2.722	+ 2.026	+ 1.762	+ 1.273	+ 0.787	+ 1.151	− 0.569
2 回正中	10 月 4 日		10 月 5 日		10 月 5 日		10 月 5 日	
a b	+0.1118	−0.1766	+0.1804	+0.1143	+0.1655	+0.0510	+0.1442	−0.0368
a′ b′	+0.9734	−0.2290	+0.9730	−0.2308	+0.9727	−0.2321	+0.9703	−0.2417
FK3番號	34		32		33		35	

星名	ε Piscium		26 Ceti		† β Phoenicis *m*		ι Tucanae	
等級 スペクトル型	4.45	K0	6.07	F0	3.35	K0	5.32	K0
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 1 0	° ′ +7 35	h m 1 0	° ′ +1 4	h m 1 3	° ′ −47 0	h m 1 5	° ′ −62 3
	s	″	s	″	s	″	s	″
1 0.8	4.305	34.41	58.191	12.85	37.104	68.79	7.43	92.66
10.7	4.186 119	33.73 68	58.075 116	12.18 67	36.882 222	69.00 21	7.06 37	92.59 7
20.7	4.063 123	33.04 69	57.954 121	11.55 63	36.661 221	68.72 28	6.69 37	91.94 65
30.7	3.941 122	32.34 70	57.835 119	11.00 55	36.449 212	67.94 78	6.34 35	90.74 120
	115	65	113	46	197	125	32	173
2 9.7	3.826	31.69	57.722	10.54	36.252	66.69	6.02	89.01
19.6	3.724 102	31.10 59	57.622 100	10.21 33	36.078 174	65.00 169	5.73 29	86.81 220
	82	49	80	18	143	208	24	261
3 1.6	3.642	30.61	57.542	10.03 —	35.935	62.92	5.49	84.20
11.6	3.587 55	30.26 35	57.488 54	10.03 0	35.829 106	60.48 244	5.31 18	81.22 298
21.6	3.564 23	30.09 17	57.465 23	10.24 21	35.767 62	57.74 274	5.19 12	77.96 326
31.5	3.579 15	30.13 4	57.480 15	10.67 43	35.753 14	54.76 298	5.14 5	74.49 347
	56	27	55	67	40	317	3	362
4 10.5	3.635	30.40	57.535	11.34	35.793	51.59	5.17	70.87
20.5	3.734 99	30.93 53	57.632 97	12.26 92	35.889 96	48.31 328	5.27 10	67.20 367
30.4	3.877 143	31.72 79	57.772 140	13.42 116	36.040 151	44.98 333	5.45 18	63.54 366
	185	105	182	139	207	331	26	357
5 10.4	4.062	32.77	57.954	14.81	36.247	41.67	5.71	59.97
20.4	4.285 223	34.07 130	58.173 219	16.41 160	36.505 258	38.45 322	6.03 32	56.58 339
30.4	4.540 255	35.59 152	58.425 252	18.18 177	36.810 305	35.40 305	6.43 40	53.44 314
	281	170	279	191	344	281	44	281
6 9.3	4.821	37.29	58.704	20.09	37.154	32.59	6.87	50.63
19.3	5.122 301	39.14 185	59.002 298	22.08 199	37.529 375	30.08 251	7.37 50	48.20 243
29.3	5.434 312	41.08 194	59.311 309	24.11 203	37.925 396	27.94 214	7.89 52	46.22 198
	314	200	313	202	406	172	55	148
7 9.3	5.748	43.08	59.624	26.13	38.331	26.22	8.44	44.74
19.2	6.057 309	45.06 198	59.932 308	28.07 194	38.739 408	24.97 125	8.98 54	43.81 93
29.2	6.354 297	46.99 193	60.228 296	29.90 183	39.135 396	24.23 74	9.52 54	43.43 38
	277	184	277	167	375	24	51	19
8 8.2	6.631	48.83	60.505	31.57	39.510	23.99 —	10.03	43.62
18.1	6.884 253	50.51 168	60.758 253	33.03 146	39.855 345	24.28 29	10.50 47	44.38 76
28.1	7.107 223	52.02 151	60.982 224	34.27 124	40.161 306	25.07 79	10.92 42	45.67 129
	191	131	191	98	261	126	36	178
9 7.1	7.298	53.33	61.173	35.25	40.422	26.33	11.28	47.45
17.1	7.454 156	54.41 108	61.331 158	35.98 73	40.632 210	28.01 168	11.56 28	49.65 220
27.0	7.576 122	55.26 85	61.453 122	36.46 48	40.788 156	30.04 203	11.76 20	52.18 253
	89	63	89	23	100	230	12	278
10 7.0	7.665	55.89	61.542	36.69 1	40.888	32.34	11.88 4	54.96
16.9	7.720 55	56.31 42	61.598 56	36.70 1	40.935 47	34.81 247	11.92 4	57.87 291
26.9	7.746 26	56.52 21	61.624 26	36.52 18	40.929 6	37.35 254	11.88 4	60.80 293
	2	2	2	35	53	251	11	282
11 5.9	7.744	56.54 13	61.622	36.17	40.876	39.86	11.77	63.62
15.9	7.717 27	56.41 28	61.595 27	35.69 48	40.779 97	42.23 237	11.58 19	66.23 261
25.9	7.667 50	56.13 39	61.546 49	35.11 58	40.645 134	44.37 214	11.34 24	68.51 228
	69		68	65	165	181	29	188
12 5.8	7.598	55.74	61.478	34.46	40.480	46.18	11.05	70.39
15.8	7.512 86	55.24 50	61.393 85	33.78 68	40.292 188	47.61 143	10.72 33	71.77 138
25.8	7.412 100	54.68 56	61.294 99	33.09 69	40.086 206	48.59 98	10.37 35	72.61 84
35.8	7.301 111	54.05 63	61.185 109	32.41 68	39.869 217	49.09 50	10.00 37	72.89 28
平位	s 5.128	″ 40.16	s 59.023	″ 20.93	s 37.960	″ 45.93	s 8.237	″ 67.02
sec δ, tan δ	+ 1.009	+ 0.133	+ 1.000	+ 0.019	+ 1.467	− 1.073	+ 2.135	− 1.886
2 回正中	10 月 6 日		10 月 7 日		10 月 7 日		10 月 8 日	
a b	+0.1556	+0.0086	+0.1537	+0.0012	+0.1337	−0.0688	+0.1181	−0.1207
a′ b′	+0.9658	−0.2592	+0.9648	−0.2630	+0.9617	−0.2741	+0.9599	−0.2804
FK3番號	36		37		38		39	

星名	η Ceti		β Andromedae		44 H. Ceph		τ Piscium	
等級 スペクトル型	3.60	K0	2.37	M0	5.68	A0	4.70	K0
世界時	赤經	赤緯	赤經	赤緯	赤經	赤緯	赤經	赤緯
月 日	h m 1 5	° ′ −10 28	h m 1 6	° ′ +35 19	h m 1 7	° ′ +79 22	h m 1 8	° ′ +29 47
	s	″	s	″	s	″	s	″
1 0.8	48.514	35.93	37.973	49.66	26.89	67.82	36.733	55.22
10.7	48.394 120	36.59 66	37.807 166	49.25 41	25.80 109	68.31 49	36.583 150	54.75 47
20.7	48.269 125	37.07 48	37.634 173	48.52 73	24.68 112	68.16 15	36.426 157	54.02 73
30.7	48.146 123	37.35 28	37.461 173	47.49 103	23.59 109	67.39 77	36.269 157	53.05 97
	117	8	165	127	103	135	151	116
2 9.7	48.029	37.43 —	37.296	46.22	22.56	66.04	36.118	51.89
19.6	47.925 104	37.28 15	37.147 149	44.75 147	21.63 93	64.16 188	35.982 136	50.58 131
	85	39	123	160	78	232	113	140
3 1.6	47.840	36.89	37.024	43.15	20.85	61.84	35.869	49.18
11.6	47.781 59	36.27 62	36.936 88	41.50 165	20.25 60	59.17 267	35.788 81	47.77 141
21.6	47.752 29	35.40 87	36.889 47	39.87 163	19.85 40	56.28 289	35.745 43	46.41 136
31.5	47.760 8	34.28 112	36.890 1	38.35 152	19.67 18	53.28 300	35.746 1	45.18 123
	49	135	53	136	4	299	50	105
4 10.5	47.809	32.93	36.943	36.99	19.71	50.29	35.796	44.13
20.5	47.900 91	31.34 159	37.050 107	35.89 110	19.98 27	47.44 285	35.897 101	43.34 79
30.4	48.034 134	29.55 179	37.209 159	35.08 81	20.47 49	44.82 262	36.047 150	42.83 51
	175	196	210	47	68	229	199	18
5 10.4	48.209	27.59	37.419	34.61	21.15	42.53	36.246	42.65 —
20.4	48.424 215	25.48 211	37.674 255	34.52 9	22.00 85	40.66 187	36.487 241	42.82 17
30.4	48.672 248	23.29 219	37.967 293	34.79 27	23.00 100	39.25 141	36.766 279	43.33 51
	277	223	324	66	111	90	309	86
6 9.3	48.949	21.06	38.291	35.45	24.11	38.35	37.075	44.19
19.3	49.247 298	18.83 223	38.637 346	36.47 102	25.30 119	37.99 36	37.404 329	45.37 118
29.3	49.557 310	16.68 215	38.996 359	37.82 135	26.54 124	38.18 19	37.747 343	46.85 148
	316	203	361	166	125	73	345	172
7 9.3	49.873	14.65	39.357	39.48	27.79	38.91	38.092	48.57
19.2	50.185 312	12.80 185	39.713 356	41.39 191	29.02 123	40.16 125	38.433 341	50.51 194
29.2	50.487 302	11.18 162	40.054 341	43.51 212	30.20 118	41.91 175	38.760 327	52.61 210
	284	136	320	227	111	220	307	220
8 8.2	50.771	9.82	40.374	45.78	31.31	44.11	39.067	54.81
18.1	51.031 260	8.76 106	40.665 291	48.17 239	32.33 102	46.72 261	39.348 281	57.08 227
28.1	51.263 232	8.02 74	40.924 259	50.61 244	33.22 89	49.68 296	39.597 249	59.35 227
	199	42	223	244	76	326	216	224
9 7.1	51.462	7.60	41.147	53.05	33.98	52.94	39.813	61.59
17.1	51.626 164	7.49 11	41.331 184	55.46 241	34.60 62	56.42 348	39.992 179	63.75 216
27.0	51.755 129	7.69 20	41.477 146	57.78 232	35.05 45	60.06 364	40.134 142	65.80 205
	93	46	106	220	29	372	105	191
10 7.0	51.848	8.15	41.583	59.98	35.34	63.78	40.239	67.71
16.9	51.907 59	8.84 69	41.652 69	62.02 204	35.46 12	67.52 374	40.309 70	69.44 173
26.9	51.934 27	9.71 87	41.684 32	63.87 185	35.40 6	71.18 366	40.344 35	70.98 154
	1	99	2	162	24	351	3	132
11 5.9	51.933	10.70	41.682	65.49	35.16	74.69	40.347 —	72.30
15.9	51.905 28	11.77 107	41.647 35	66.87 138	34.75 41	77.95 326	40.320 27	73.39 109
25.9	51.853 52	12.86 109	41.583 64	67.98 111	34.17 58	80.89 294	40.266 54	74.23 84
	71	106	92	80	73	253	81	56
12 5.8	51.782	13.92	41.491	68.78	33.44	83.42	40.185	74.79
15.8	51.693 89	14.91 99	41.374 117	69.26 48	32.57 87	85.47 205	40.082 103	75.08 29
25.8	51.591 102	15.79 88	41.236 138	69.41 15	31.59 98	86.96 149	39.959 123	75.09 1
35.8	51.478 113	16.52 73	41.081 155	69.23 18	30.54 105	87.86 90	39.820 139	74.81 28
平位	s 49.335	″ 23.78	s 38.665	″ 46.19	s 26.374	″ 55.27	s 37.440	″ 53.49
sec δ, tan δ	+ 1.017	− 0.185	+ 1.226	+ 0.709	+ 5.428	+ 5.335	+ 1.152	+ 0.573
2 回正中	10 月 8 日		10 月 8 日		10 月 8 日		10 月 8 日	
a b	+0.1498	−0.0118	+0.1669	+0.0453	+0.2565	+0.3403	+0.1646	+0.0365
a′ b′	+0.9590	−0.2833	+0.9580	−0.2867	+0.9570	−0.2900	+0.9555	−0.2950
FK3番號	40		42		41		43	

星名	102 G. Scul		υ Pisc		ϑ Ceti		ψ Cass	
等級	5.91		4.67		3.83		4.96	
スペクトル型	A 5		A 2		K 0		K 0	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 1 10	° ′ −38 8	h m 1 16	° ′ +26 58	h m 1 21	° ′ −8 27	h m 1 21	° ′ +67 50
	s	″	s	″	s	″	s	″
1 0.8	12.689 179	71.58 42	25.528 142	32.73	15.651 120	71.44 70	60.90 47	48.44 42
10.8	12.510 182	72.00 1	25.386 150	32.28 45	15.531 126	72.14 55	60.43 49	48.86 17
20.7	12.328 176	71.99 46	25.236 154	31.59 69	15.405 129	72.69 36	59.94 49	48.69 73
30.7	12.152 166	71.53 88	25.082 148	30.70 89 106	15.276 124	73.05 17	59.45 48	47.96 126
2 9.7	11.986 148	70.65 129	24.934 135	29.64 118	15.152 115	73.22 — 4	58.97 43	46.70 174
19.6	11.838 124	69.36 167	24.799 114	28.46 125	15.037 97	73.18 27	58.54 37	44.96 214
3 1.6	11.714 93	67.69	24.685 85	27.21 126	14.940 73	72.91 50	58.17 30	42.82 244
11.6	11.621 55	65.67 202	24.600 48	25.95 120	14.867 44	72.41 74	57.87 20	40.38 265
21.6	11.566 12	63.34 233	24.552 6	24.75 120	14.823 8	71.67 98	57.67 9	37.73 273
31.5	11.554 34	60.76 258 280	24.546 41	23.68 107 88	14.815 32	70.69 122	57.58 1	35.00 271
4 10.5	11.588 85	57.96	24.587 91	22.80 65	14.847 75	69.47	57.59 13	32.29
20.5	11.673 135	55.00 296	24.678 140	22.15 37	14.922 119	68.01 146	57.72 24	29.71 258
30.5	11.808 185	51.94 306 309	24.818 187	21.78 5	15.041 161	66.33 168 186	57.96 34	27.37 234 203
5 10.4	11.993	48.85	25.005	21.73 —	15.202	64.47	58.30	25.34
20.4	12.224 231	45.79 306	25.235 230	22.00 27	15.403 201	62.46 201	58.74 44	23.71 163
30.4	12.497 273 309	42.83 296 278	25.503 268 298	22.60 60 92	15.640 237 267	60.33 213 219	59.25 51 58	22.52 119 71
6 9.3	12.806	40.05	25.801	23.52	15.907	58.14	59.83	21.81
19.3	13.142 336	37.50 255	26.122 321	24.74 122	16.196 289	55.94 220	60.46 63	21.61 20
29.3	13.498 356 366	35.25 225 189	26.456 334 339	26.23 149 172	16.501 305 312	53.79 215 205	61.11 65 67	21.92 31 81
7 9.3	13.864 366	33.36	26.795	27.95	16.813 311	51.74 190	61.78 66	22.73
19.2	14.230 356	31.88 148	27.131 336	29.85 190	17.124 304	49.84 169 144	62.44 64	24.02 129
29.2	14.586 339	30.85 103 57	27.455 324 306	31.89 204 213	17.428 304 288	48.15 169 144	63.08 61	25.76 174 216
8 8.2	14.925	30.28 7	27.761	34.02	17.716	46.71	63.69	27.92
18.2	15.238 313	30.21 39	28.041 280	36.18 216	17.982 266	45.54 117	64.25 56	30.43 251
28.1	15.516 278 240	30.60 86	28.293 252 219	38.34 216 210	18.222 240 209	44.68 86 54	64.76 51 44	33.25 282 307
9 7.1	15.756	31.46	28.512	40.44	18.431	44.14 23	65.20	36.32
17.1	15.952 196	32.73 127	28.696 184	42.45 201	18.607 176	43.91 8	65.57 37	39.59 327
27.0	16.103 151 104	34.36 163 192	28.845 149 112	44.34 189 174	18.750 143 108	43.99 34	65.86 29 21	42.97 338 345
10 7.0	16.207	36.28	28.957	46.08	18.858	44.33	66.07	46.42
16.9	16.265 58	38.41 213	29.036 79	47.65 157	18.932 74	44.92 59	66.20 13	49.86 344
26.9	16.280 15 27	40.65 224 226	29.080 44 14	49.02 137 117	18.975 43 14	45.69 77 92	66.25 5 4	53.21 335 320
11 5.9	16.253	42.91	29.094 — 17	50.19	18.989 — 14	46.61	66.21	56.41
15.9	16.190 63	45.09 218	29.077 17	51.14 95	18.975 14	47.62 101	66.09 12	59.37 296
25.9	16.096 94 122	47.10 201 177	29.033 44 70	51.85 71 48	18.936 39 60	48.67 105 104	65.89 20 27	62.03 266 228
12 5.9	15.974	48.87	28.963	52.33	18.876	49.71	65.62	64.31
15.8	15.830 144	50.32 145	28.869 94	52.55 22	18.795 81	50.69 98	65.28 34	66.14 183
25.8	15.669 161	51.40 108	28.756 113	52.52 3	18.699 96	51.59 90	64.88 40	67.48 134
35.8	15.497 172	52.07 67	28.625 131	52.24 28	18.589 110	52.36 77	64.43 45	68.26 78
平位	s 13.485	″ 50.89	s 26.204	″ 32.00	s 16.373	″ 59.93	s 61.012	″ 37.59
sec δ, tan δ	+ 1.272	− 0.785	+ 1.122	+ 0.509	+ 1.011	− 0.149	+ 2.652	+ 2.456
2 回正中	10 月 9 日		10 月 10 日		10 月 12 日		10 月 12 日	
a b	+0.1375	−0.0499	+0.1644	+0.0321	+0.1499	−0.0093	+0.2107	+0.1533
a′ b′	+0.9534	−0.3016	+0.9449	−0.3274	+0.9378	−0.3472	+0.9367	−0.3503
FK 3 番號	44		45		47		46	

星名	δ Cass		γ Phoe		η Pisc		14 G. Hydi	
等級	2.80		3.40		3.72		6.06	
スペクトル型	A 5		K 5		G 5		G 5	
世界時	赤経	赤緯	赤経	赤緯	赤経	赤緯	赤経	赤緯
月 日	h m 1 22	° ′ +59 56	h m 1 25	° ′ −43 35	h m 1 28	° ′ +15 3	h m 1 33	° ′ −78 46
	s	″	s	″	s	″	s	″
1 0.8	11.528	70.19 22	58.099 206	79.79	31.491 122	43.08	16.46 107	88.33
10.8	11.199 329	70.41 30	57.893 211	80.30 51	31.369 132	42.53 55	15.39 107	88.29 4
20.7	10.853 346	70.11 81	57.682 209	80.32 2	31.237 132	41.89 64	14.32 107	87.63 66
30.7	10.506 347 335	69.30 129	57.473 200	79.87 45 93	31.100 137 134	41.17 72 77	13.28 104 98	86.37 126 182
2 9.7	10.171	68.01	57.273 183	78.94	30.966	40.40	12.30	84.55
19.7	9.864 307 264	66.30 171 205	57.090 158	77.56 138 179	30.840 126 108	39.62 78 74	11.40 90 79	82.23 232 277
3 1.6	9.600	64.25	56.932	75.77	30.732	38.88	10.61	79.46
11.6	9.394 206	61.93 232	56.806 126	73.60 217	30.648 84	38.21 67	9.95 66	76.32 314
21.6	9.257 137	59.47 246	56.719 87	71.10 250	30.597 51	37.65 56	9.43 52	72.88 344
31.5	9.198 59 26	56.96 251 246	56.677 42 8	68.33 277 300	30.583 14 28	37.26 39 19	9.08 35 19	69.24 364 379
4 10.5	9.224	54.50	56.685	65.33	30.611	37.07 — 5	8.89 1	65.45
20.5	9.336 112	52.20 230	56.746 61	62.17 316	30.685 74	37.12 30	8.88 16	61.60 385
30.5	9.533 197 276	50.15 205 172	56.862 116 171	58.92 325 329	30.805 120 165	37.42 58	9.04 35	57.79 381 371
5 10.4	9.809	48.43	57.033	55.63	30.970	38.00	9.39	54.08
20.4	10.158 349	47.09 134	57.255 222	52.39 324	31.176 206	38.84 84	9.90 51	50.57 351
30.4	10.568 410 460	46.20 89 43	57.523 268 310	49.27 312 294	31.419 243 273	39.95 111 134	10.58 68 82	47.32 325 290
6 9.4	11.028	45.77 — 5	57.833	46.33	31.692	41.29	11.40	44.42
19.3	11.524 496	45.82 53	58.177 344	43.65 268	31.989 297	42.84 155	12.34 94	41.94 248
29.3	12.043 519 528	46.35 99	58.544 367 382	41.30 235 196	32.301 312 320	44.55 171 183	13.39 105 111	39.92 202 149
7 9.3	12.571	47.34	58.926	39.34	32.621	46.38	14.50	38.43
19.2	13.095 524	48.78 144	59.313 387	37.82 152	32.939 318	48.29 191	15.66 116	37.50 93
29.2	13.603 508 480	50.62 184 220	59.695 382 366	36.78 104 54	33.249 310 294	50.23 194 191	16.83 117 114	37.16 34 26
8 8.2	14.083	52.82	60.061	36.24 2	33.543	52.14	17.97	37.42
18.2	14.527 444	55.33 251	60.403 342	36.22 49	33.816 273	53.98 184	19.05 108	38.26 84
28.1	14.926 399 349	58.10 277 297	60.712 309 270	36.71 99	34.064 248 217	55.71 173 159	20.03 98 87	39.67 141 192
9 7.1	15.275	61.07	60.982	37.70	34.281	57.30	20.90	41.59
17.1	15.568 293	64.18 311	61.207 225	39.13 143	34.467 186	58.73 143	21.60 70	43.96 237
27.1	15.803 235 174	67.37 319 321	61.385 178 126	40.95 182 213	34.620 153 120	59.97 124 104	22.13 53 34	46.68 272 299
10 7.0	15.977	70.58	61.511	43.08	34.740	61.01	22.47	49.67
16.9	16.090 113	73.75 317	61.589 78	45.44 236	34.828 88	61.86 85	22.60 13	52.80 313
26.9	16.142 52 10	76.81 306 288	61.617 28 19	47.92 248 251	34.885 57 27	62.50 64 46	22.53 7 28	55.96 316 305
11 5.9	16.132	79.69	61.598	50.43	34.912 — 1	62.96 29	22.25	59.01
15.9	16.062 70	82.34 265	61.538 60	52.86 243	34.911 26	63.25 11	21.78 47	61.83 282
25.9	15.935 127 181	84.68 234 197	61.439 99 132	55.11 225 198	34.885 51	63.36 5	21.14 64 79	64.32 249 204
12 5.9	15.754	86.65	61.307	57.09	34.834	63.31	20.35	66.36
15.8	15.523 231	88.20 155	61.147 160	58.73 164	34.760 74	63.11 20	19.45 90	67.89 153
25.8	15.249 274	89.28 108	60.967 180	59.96 123	34.667 93	62.78 33	18.45 100	68.83 94
35.8	14.940 309	89.85 57	60.770 197	60.74 78	34.557 110	62.33 45	17.40 105	69.16 33
平位	s 11.857	″ 60.73	s 58.731	″ 57.83	s 32.139	″ 46.46	s 15.942	″ 61.43
sec δ, tan δ	+ 1.997	+ 1.729	+ 1.381	− 0.952	+ 1.036	+ 0.269	+ 5.141	− 5.043
2 回正中	10 月 12 日		10 月 13 日		10 月 14 日		10 月 15 日	
a b	+0.1938	+0.1079	+0.1301	−0.0591	+0.1601	+0.0166	+0.0203	−0.3087
a′ b′	+0.9364	−0.3510	+0.9305	−0.3664	+0.9263	−0.3768	+0.9183	−0.3958
FK 3 番號	48		49		50		53	