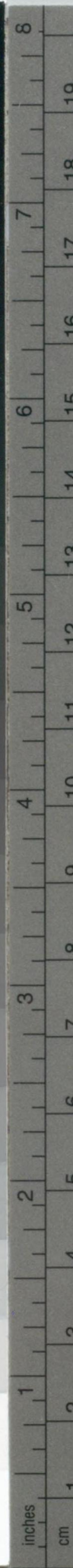


# Kodak Gray Scale

© Kodak, 2007 TM: Kodak



A 1 2 3 4 5 6 M 8 9 10 11 12 13 14 15 B 17 18 19



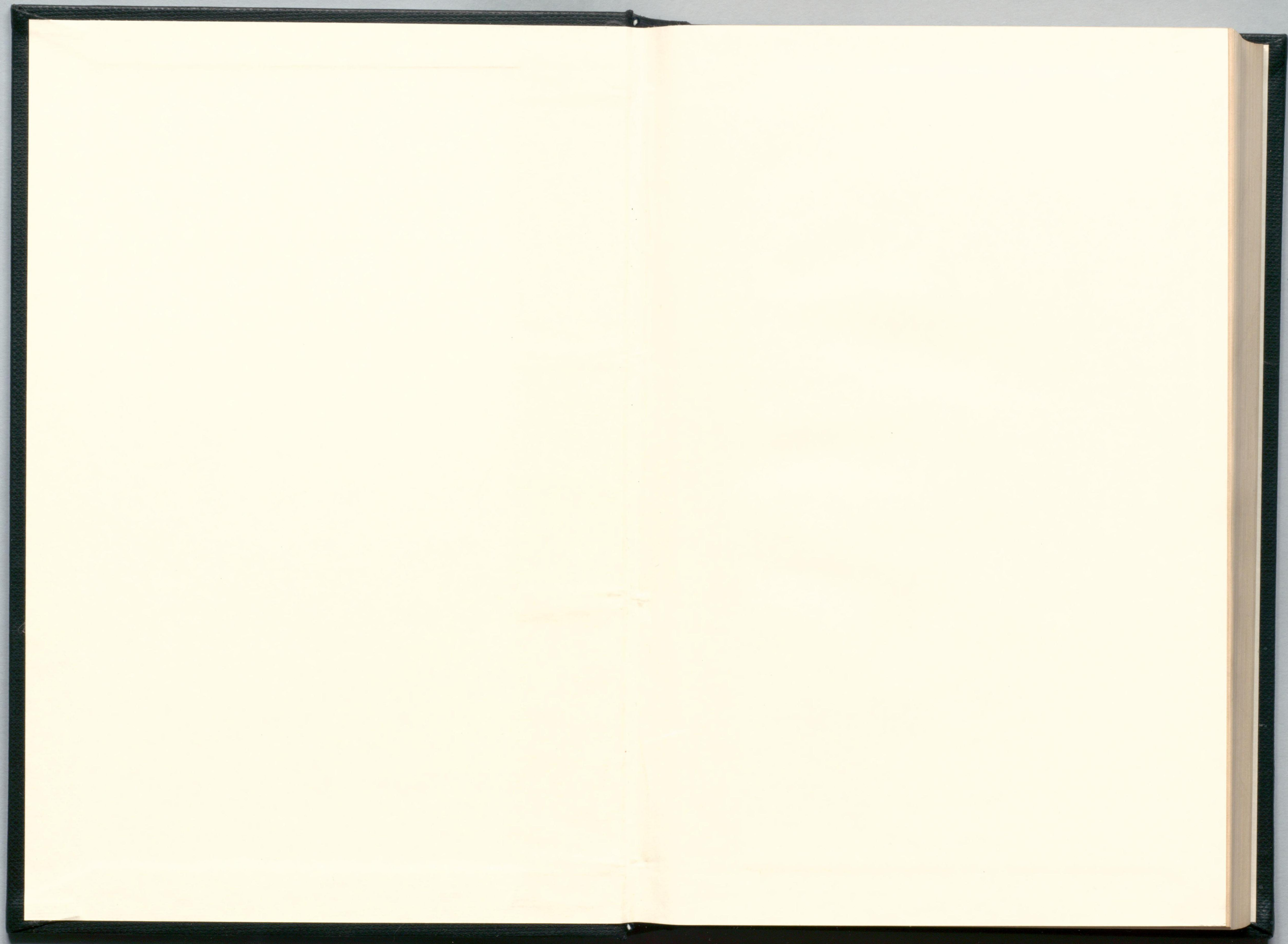
# Kodak Color Control Patches

© Kodak, 2007 TM: Kodak

Blue	Cyan	Green	Yellow	Red	Magenta	White	3/Color	Black
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



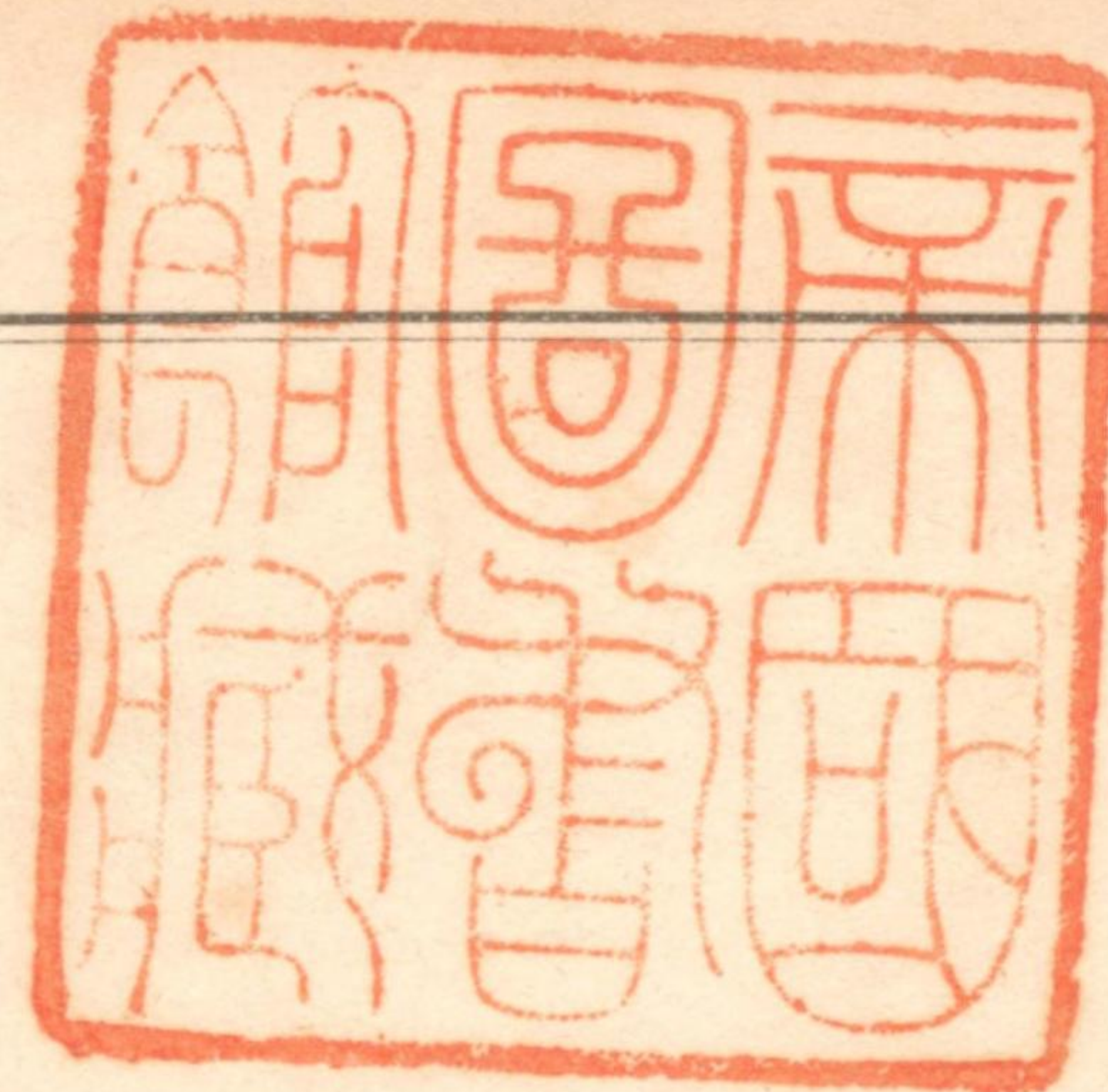






水-15

外20-8



# 海軍航海年表

大正五年

水路部







緒 言

本表ハ主トシテ航海ニ必要ナル天體ニ關スル事項並ニ本邦、露領沿海州及ヒ支那沿岸各地ノ潮信ヲ掲ケタルモノナリ是等ノ事項ハ海上ニ於テハ寧ロ簡單ナルヲ便トスルヲ以テ繁ヲ省キ要ヲ採リ專ラ航海者ノ利便ヲ本トシ編纂セリ

尙ホ日出沒時、經緯度、報時信號、標準時及便表數葉ヲ掲ケ卷末ニ天文及ヒ潮汐ニ關スル簡單ナル説明ヲ載セタリ

本表使用者ニシテ實驗上改補訂正ヲ要スル點アルヲ發見セルトキハ速ニ當部ニ報告アランコトヲ望ム

大正四年 十月

水 路 部



# 目 次

## EPHEMERIS.

	PAGE.
Sun : Horizontal Parallax, Mean Longitude.	
Moon : Mean Longitude, Mean Longitude Ascending Node, Mean Longitude Perigee.	} ..... 1
Sun : Declination, Semidiameter, Equation of Time, Right Ascension of Mean Sun.	} ..... 2— 13
Right Ascension of Mean Sun for every Even Hour.	
Declination Equation of Time	} ..... 14— 61
Moon : Semidiameter, Horizontal Parallax, Meridian Passage, Age.	} ..... 62— 73
Right Ascension for every Even Hour.	
Declination Phases, Apogee and Perigee.	} ..... 74—121
Venus : Right Ascension, Declination, Meridian Passage.	} ..... 122—127
Mars :                   "                   "                   "                   "	..... 128—133
Jupiter :               "               "               "               "	..... 134—139
Saturn :                 "                 "                 "                 "	..... 140—145
Fixed Stars : Mean Places.	..... 146—153
Pole-Star : Apparent Place.	..... 154
Fixed Stars : Apparent Places.	..... 155—162

## TABLES.

Table of Pole-Star.	163—167
" of Time Equivalents.	168—169
" of Rising and Setting of Celestial Bodies.	170—171
" of Proportional Parts.	172—177
潮 時 及 潮 高	178—305
潮 信	306—341
日 出 沒 時	342—426
經 緯 度	427—448
標 準 時	449
報 時 信 號	450—459
年 表 解 說	460—475





Greenwich Mean Noon.	The Sun's		The Moon's		
	Horizontal parallax.	Mean Longitude.	Mean Longitude.	Mean Longitude Ascending Node.	Mean Longitude Perigee.
	//	°	°	°	°
Jan. 1	9.0	279.81	233.31	309.72	265.37
11	9.0	289.67	5.07	309.19	266.49
21	8.9	299.53	136.84	308.66	267.60
Feb. 31	8.9	309.38	268.60	308.13	268.71
10	8.9	319.24	40.37	307.60	269.83
20	8.9	329.10	172.13	307.07	270.94
Mar. 1	8.9	338.95	303.89	306.54	272.06
11	8.9	348.81	75.66	306.01	273.17
21	8.8	358.67	207.42	305.48	274.28
Apr. 31	8.8	8.52	339.19	304.95	275.40
10	8.8	18.38	110.95	304.42	276.51
20	8.8	28.24	242.71	303.89	277.63
May 30	8.7	38.09	14.48	303.36	278.74
10	8.7	47.95	146.24	302.83	279.85
20	8.7	57.80	278.01	302.30	280.97
June 30	8.7	67.66	49.77	301.77	282.08
9	8.7	77.52	181.53	301.24	283.20
19	8.7	87.37	313.30	300.72	284.31
July 29	8.7	97.23	85.06	300.19	285.42
9	8.7	107.09	216.83	299.66	286.54
19	8.7	116.94	348.59	299.13	287.65
Aug. 29	8.7	126.80	120.35	298.60	288.77
8	8.7	136.66	252.12	298.07	289.88
18	8.7	146.51	23.88	297.54	290.99
Sept. 28	8.7	156.37	155.65	297.01	292.11
7	8.7	166.23	287.41	296.48	293.22
17	8.8	176.08	59.17	295.95	294.34
Oct. 27	8.8	185.94	190.94	295.42	295.45
7	8.8	195.80	322.70	294.89	296.57
17	8.8	205.65	94.47	294.36	297.68
Nov. 27	8.9	215.51	226.23	293.83	298.79
6	8.9	225.36	357.99	293.30	299.91
16	8.9	235.22	129.76	292.77	301.02
Dec. 26	8.9	245.08	261.52	292.24	302.14
6	8.9	254.93	33.29	291.71	303.25
16	8.9	264.79	165.05	291.18	304.36
26	9.0	274.65	296.81	290.65	305.48
36	9.0	284.50	68.58	290.12	306.59
Daily Motion.....		+0.986	+131.76	-0.053	+0.111



JANUARY.

AT GREENWICH MEAN NOON.

Date.	Declination.	Var. in 1 hour.	Semi-diameter.	Equation of Time		Var. in 1 hour.	Right Ascension of the Mean Sun (Sidereal Time).			Add for hours.		
				Add to Apparent Time.	Subtract from Apparent Time.		h	m	s	h	m	s
Sat. 1	S. 23 5 35	11.2	16 18	3	10.9	1.20	18	39	16.2	1	0	9.9
Sun. 2	23 0 52	12.4	16 18	3	39.6	1.19	18	43	12.8	2	0	19.7
Mon. 3	22 55 42	13.5	16 18	4	7.9	1.17	18	47	9.3	3	0	29.6
Tues. 4	S. 22 50 4	14.7	16 18	4	35.8	1.16	18	51	5.9	4	0	39.4
Wed. 5	22 43 58	15.8	16 18	5	3.4	1.14	18	55	2.4	5	0	49.3
Thur. 6	22 37 26	16.9	16 17	5	30.6	1.12	18	58	59.0	6	1	9.0
Frid. 7	S. 22 30 27	18.0	16 17	5	57.3	1.10	19	2	55.5	7	1	18.9
Sat. 8	22 23 1	19.1	16 17	6	23.5	1.08	19	6	52.1	8	1	28.7
Sun. 9	22 15 8	20.2	16 17	6	49.2	1.06	19	10	48.7	9	1	38.6
Frid. 10	S. 22 6 50	21.3	16 17	7	14.4	1.04	19	14	45.2	10	1	48.4
Sat. 11	21 58 6	22.4	16 17	7	39.0	1.01	19	18	41.8	11	1	58.3
Wed. 12	21 48 56	23.5	16 17	8	3.1	0.99	19	22	38.3	12	2	8.1
Thur. 13	S. 21 39 20	24.5	16 17	8	26.5	0.96	19	26	34.9	13	2	18.0
Frid. 14	21 29 20	25.6	16 17	8	49.3	0.94	19	30	31.5	14	2	27.8
Sat. 15	21 18 55	26.6	16 17	9	11.4	0.91	19	34	28.0	15	2	37.7
Sun. 16	S. 21 8 5	27.6	16 17	9	32.8	0.88	19	38	24.6	16	2	47.6
Mon. 17	20 56 51	28.6	16 17	9	53.6	0.85	19	42	21.1	17	2	57.4
Tues. 18	20 45 13	29.6	16 17	10	13.7	0.82	19	46	17.7	18	2	7.3
Wed. 19	S. 20 33 11	30.6	16 17	10	33.0	0.79	19	50	14.2	19	2	17.1
Thur. 20	20 20 47	31.5	16 17	10	51.7	0.76	19	54	10.8	20	2	27.0
Frid. 21	20 7 59	32.5	16 17	11	9.6	0.73	19	58	7.4	21	2	36.8
Sat. 22	S. 19 54 49	33.4	16 17	11	26.7	0.70	20	2	3.9	22	2	46.7
Sun. 23	19 41 16	34.3	16 17	11	43.1	0.67	20	6	0.5	23	2	56.6
Mon. 24	19 27 21	35.2	16 16	11	58.7	0.64	20	9	57.0	24	2	5.4
Tues. 25	S. 19 13 5	36.1	16 16	12	13.6	0.60	20	13	53.6	1	3	7.3
Wed. 26	18 58 28	37.0	16 16	12	27.7	0.57	20	17	50.1	2	3	17.1
Thur. 27	18 43 29	37.9	16 16	12	41.0	0.54	20	21	46.7	3	3	27.0
Frid. 28	S. 18 28 10	38.7	16 16	12	53.5	0.51	20	25	43.3	4	3	36.8
Sat. 29	18 12 31	39.6	16 16	13	5.2	0.47	20	29	39.8	5	3	46.7
Sun. 30	17 56 32	40.4	16 16	13	16.2	0.44	20	33	36.4	6	3	56.6
Mon. 31	17 40 14	41.2	16 16	13	26.3	0.41	20	37	32.9	7	3	5.4
Tues. 32	S. 17 23 37	41.9	16 15	13	35.6	0.37	20	41	29.5	8	3	7.3

The R. A. of Mer. (local Sidereal Time) is found by adding the Right Ascension of the Mean Sun to the local Mean Time.

FEBRUARY.

AT GREENWICH MEAN NOON.

Date.	Declination.	Var. in 1 hour.	Semi-diameter.	Equation of Time		Var. in 1 hour.	Right Ascension of the Mean Sun (Sidereal Time).			Add for hours.		
				Add to Apparent Time.	Subtract from Apparent Time.		h	m	s	h	m	s
Tues. 1	S. 17 23 37	41.9	16 15	13	35.6	0.37	20	41	29.5	1	0	9.9
Wed. 2	17 6 42	42.7	16 15	13	44.2	0.34	20	45	26.0	2	0	19.7
Thur. 3	16 49 28	43.5	16 15	13	51.9	0.30	20	49	22.6	3	0	29.6
Frid. 4	S. 16 31 57	44.2	16 15	13	58.7	0.27	20	53	19.2	4	0	39.4
Sat. 5	16 14 8	44.9	16 15	14	4.8	0.24	20	57	15.7	5	0	49.3
Sun. 6	15 56 3	45.6	16 15	14	10.0	0.20	21	1	12.3	6	1	9.0
Mon. 7	S. 15 37 41	46.2	16 14	14	14.5	0.17	21	5	8.8	7	1	18.9
Tues. 8	15 19 3	46.9	16 14	14	18.1	0.13	21	9	5.4	8	1	28.7
Wed. 9	15 0 10	47.5	16 14	14	20.8	0.10	21	13	1.9	9	1	38.6
Thur. 10	S. 14 41 2	48.2	16 14	14	22.8	0.07	21	16	58.5	10	1	48.4
Frid. 11	14 21 40	48.8	16 14	14	24.0	0.03	21	20	55.0	11	1	58.3
Sat. 12	14 2 3	49.3	16 14	14	24.3	0.00	21	24	51.6	12	2	8.1
Sun. 13	S. 13 42 12	49.9	16 13	14	23.9	0.03	21	28	48.2	13	2	18.0
Mon. 14	13 22 8	50.5	16 13	14	22.7	0.07	21	32	44.7	14	2	27.8
Tues. 15	13 1 51	51.0	16 13	14	20.8	0.10	21	36	41.3	15	2	37.7
Wed. 16	S. 12 41 21	51.5	16 13	14	18.1	0.13	21	40	37.8	16	2	47.6
Thur. 17	12 20 39	52.0	16 13	14	14.6	0.16	21	44	34.4	17	2	57.4
Frid. 18	11 59 45	52.5	16 12	14	10.5	0.19	21	48	30.9	18	2	7.3
Sat. 19	S. 11 38 40	52.9	16 12	14	5.6	0.22	21	52	27.5	19	2	17.1
Sun. 20	11 17 24	53.4	16 12	14	0.1	0.25	21	56	24.0	20	2	27.0
Mon. 21	10 55 57	53.8	16 12	13	53.9	0.27	22	0	20.6	21	2	36.8
Tues. 22	S. 10 34 21	54.3	16 12	13	47.0	0.30	22	4	17.2	22	2	46.7
Wed. 23	10 12 34	54.7	16 11	13	39.5	0.33	22	8	13.7	23	2	56.6
Thur. 24	9 50 37	55.0	16 11	13	31.4	0.35	22	12	10.3	24	2	5.4
Frid. 25	S. 9 28 32	55.4	16 11	13	22.7	0.38	22	16	6.8	1	3	7.3
Sat. 26	9 6 18	55.8	16 11	13	13.4	0.40	22	20	3.4	2	3	17.1
Sun. 27	8 43 56	56.1	16 10	13	3.6	0.42	22	23	59.9	3	3	27.0
Mon. 28	S. 8 21 25	56.4	16 10	12	53.2	0.44	22	27	56.5	4	3	36.8
Tues. 29	7 58 48	56.7	16 10	12	42.3	0.47	22	31	53.0	5	3	46.7
Wed. 30	S. 7 36 3	57.0	16 10	12	30.9	0.49	22	35	49.6	6	3	56.6

The R. A. of Mer. (local Sidereal Time) is found by adding the Right Ascension of the Mean Sun to the local Mean Time.



MARCH.

AT GREENWICH MEAN NOON.

Date.	Declination.	Var. in hour.	Semi-diameter.	Equation of Time		Var. in hour.	Right Ascension of the Mean Sun (Sidereal Time).			Add for hours.	
				Add to Apparent Time.	subtract from Apparent Time.		h	m	s	h	m
Wed. 1	S. 7 36 3	57°0	16 10	12 30.9	0.49	22 35 49.6	1	0	9.9		
Thur. 2	7 13 11	57°3	16 9	12 18.9	0.51	22 39 46.1	2	0	19.7		
Frid. 3	6 50 14	57°5	16 9	12 6.5	0.53	22 43 42.7	3	0	29.6		
Sat. 4	S. 6 27 11	57°7	16 9	11 53.6	0.55	22 47 39.2	4	0	39.4		
Sun. 5	6 4 2	58°0	16 9	11 40.3	0.57	22 51 35.8	5	0	49.3		
Mon. 6	5 40 48	58°2	16 8	11 26.5	0.58	22 55 32.4	6	0	59.1		
Tues. 7	S. 5 17 30	58°3	16 8	11 12.3	0.60	22 59 28.9	7	1	8.9		
Wed. 8	4 54 8	58°5	16 8	10 57.7	0.62	23 3 25.5	8	1	18.9		
Thur. 9	4 30 42	58°6	16 8	10 42.7	0.63	23 7 22.0	9	1	28.7		
Frid. 10	S. 4 7 13	58°8	16 7	10 27.4	0.65	23 11 18.6	10	1	38.6		
Sat. 11	3 43 41	58°9	16 7	10 11.6	0.66	23 15 15.1	11	1	48.4		
Sun. 12	3 20 6	59°0	16 7	9 55.6	0.68	23 19 11.7	12	2	58.3		
Mon. 13	S. 2 56 29	59°1	16 7	9 39.2	0.69	23 23 8.2	13	2	68.1		
Tues. 14	2 32 50	59°1	16 6	9 22.6	0.70	23 27 4.8	14	3	78.0		
Wed. 15	2 9 10	59°2	16 6	9 5.6	0.71	23 31 1.3	15	3	87.8		
Thur. 16	S. 1 45 29	59°2	16 6	8 48.5	0.72	23 34 57.9	16	3	97.6		
Frid. 17	1 21 47	59°3	16 6	8 31.1	0.73	23 38 54.4	17	3	107.4		
Sat. 18	0 58 4	59°3	16 5	8 13.5	0.74	23 42 51.0	18	3	117.2		
Sun. 19	S. 0 34 22	59°3	16 5	7 55.7	0.74	23 46 47.5	19	3	127.0		
Mon. 20	0 10 39	59°2	16 5	7 37.7	0.75	23 50 44.1	20	3	136.8		
Tues. 21	N. 0 13 2	59°2	16 5	7 19.7	0.76	23 54 40.7	21	3	146.6		
Wed. 22	N. 0 36 43	59°2	16 4	7 1.5	0.76	23 58 37.2	22	3	156.4		
Thur. 23	1 0 23	59°1	16 4	6 43.3	0.76	0 2 33.8	23	3	166.2		
Frid. 24	1 24 1	59°0	16 4	6 24.9	0.76	0 6 30.3	24	3	176.0		
Sat. 25	N. 1 47 37	58°9	16 3	6 6.6	0.77	0 10 26.9	25	3	185.8		
Sun. 26	2 11 10	58°8	16 3	5 48.2	0.77	0 14 23.4	26	3	195.6		
Mon. 27	2 34 41	58°7	16 3	5 29.9	0.76	0 18 20.0	27	3	205.4		
Tues. 28	N. 2 58 9	58°6	16 3	5 11.6	0.76	0 22 16.5	28	3	215.2		
Wed. 29	3 21 34	58°4	16 2	4 53.3	0.76	0 26 13.1	29	3	225.0		
Thur. 30	3 44 55	58°3	16 2	4 35.1	0.76	0 30 9.6	30	3	234.8		
Frid. 31	4 8 11	58°1	16 2	4 16.9	0.75	0 34 6.2	31	3	244.6		
S. t. 32	N. 4 31 24	57°9	16 1	3 58.9	0.75	0 38 2.7	32	3	254.4		

The R. A. of Mer. (local Sidereal Time) is found by adding the Right Ascension of the Mean Sun to the local Mean Time.

APRIL.

AT GREENWICH MEAN NOON.

Date.	Declination.	Var. in hour.	Semi-diameter.	Equation of Time		Var. in hour.	Right Ascension of the Mean Sun (Sidereal Time).			Add for hours.	
				Add to Apparent Time.	subtract from Apparent Time.		h	m	s	h	m
Sat. 1	N. 4 31 24	57°9	16 1	3 58.9	0.75	0 38 2.7	1	0	9.9		
Sun. 2	4 54 31	57°7	16 1	3 41.0	0.74	0 41 59.3	2	0	19.7		
Mon. 3	5 17 33	57°5	16 1	3 23.2	0.74	0 45 55.8	3	0	29.6		
Tues. 4	N. 5 40 29	57°2	16 1	3 5.5	0.73	0 49 52.4	4	0	39.4		
Wed. 5	6 3 20	57°0	16 0	2 48.0	0.73	0 53 49.0	5	0	49.3		
Thur. 6	6 26 4	56°7	16 0	2 30.7	0.72	0 57 45.5	6	1	59.1		
Frid. 7	N. 6 48 41	56°4	16 0	2 13.5	0.71	1 1 42.1	7	1	68.9		
Sat. 8	7 11 11	56°1	16 0	1 56.6	0.70	1 5 38.6	8	1	78.7		
Sun. 9	7 33 34	55°8	15 59	1 39.9	0.69	1 9 35.2	9	1	88.5		
Mon. 10	N. 7 55 49	55°5	15 59	1 23.4	0.68	1 13 31.7	10	2	98.3		
Tues. 11	8 17 56	55°1	15 59	1 7.2	0.67	1 17 28.3	11	2	108.1		
Wed. 12	8 39 55	54°8	15 58	0 51.3	0.66	1 21 24.8	12	2	117.9		
Thur. 13	N. 9 1 44	54°4	15 58	0 35.6	0.65	1 25 21.4	13	2	127.7		
Frid. 14	9 23 25	54°0	15 58	0 20.3	0.63	1 29 17.9	14	2	137.5		
Sat. 15	9 44 57	53°6	15 58	0 5.2	0.62	1 33 14.5	15	2	147.3		
Sun. 16	N. 10 6 18	53°2	15 57	0 9.5	0.60	1 37 11.0	16	2	157.1		
Mon. 17	10 27 30	52°8	15 57	0 23.8	0.59	1 41 7.6	17	2	166.9		
Tues. 18	10 48 31	52°3	15 57	0 37.7	0.57	1 45 4.2	18	2	176.7		
Wed. 19	N. 11 9 22	51°9	15 57	0 51.3	0.56	1 49 0.7	19	2	186.5		
Thur. 20	11 30 1	51°4	15 56	1 4.4	0.54	1 52 57.3	20	2	196.3		
Frid. 21	11 50 30	50°9	15 56	1 17.2	0.52	1 56 53.8	21	2	206.1		
Sat. 22	N. 12 10 47	50°5	15 56	1 29.4	0.50	2 0 50.4	22	2	215.9		
Sun. 23	12 30 52	50°0	15 56	1 41.2	0.48	2 4 46.9	23	2	225.7		
Mon. 24	12 50 45	49°4	15 55	1 52.5	0.46	2 8 43.5	24	2	235.5		
Tues. 25	N. 13 10 25	48°9	15 55	2 3.4	0.44	2 12 40.0	25	2	245.3		
Wed. 26	13 29 52	48°4	15 55	2 13.7	0.42	2 16 36.6	26	2	255.1		
Thur. 27	13 49 7	47°8	15 55	2 23.5	0.40	2 20 33.1	27	2	264.9		
Frid. 28	N. 14 8 7	47°2	15 54	2 32.8	0.38	2 24 29.7	28	2	274.7		
Sat. 29	14 26 54	46°7	15 54	2 41.5	0.35	2 28 26.3	29	2	284.5		
Sun. 30	14 45 26	46°0	15 54	2 49.8	0.33	2 32 22.8	30	2	294.3		
Mon. 31	N. 15 3 44	45°4	15 54	2 57.5	0.31	2 36 19.4	31	2	304.1		

The R. A. of Mer. (local Sidereal Time) is found by adding the Right Ascension of the Mean Sun to the local Mean Time.



MAY.

AT GREENWICH MEAN NOON.

Date.	Declination.	Var. in hour.	Semi-diameter.	Equation of Time		Var. in hour.	Right Ascension of the Mean Sun (Sidereal Time).			Add for hours.		
				Subtract from Apparent Time.	Add to Apparent Time.		h	m	s	h	m	s
Mon. 1	N. 15 3 44	45.4	15 54	2	57.5	0.31	2	36	19.4	1	0	9.9
Tues. 2	15 21 47	44.8	15 53	3	4.6	0.29	2	40	15.9	2	0	19.7
Wed. 3	15 39 35	44.2	15 53	3	11.2	0.26	2	44	12.5	3	0	29.6
Thur. 4	N. 15 57 7	43.5	15 53	3	17.3	0.24	2	48	9.0	4	0	39.4
Frid. 5	16 14 23	42.8	15 53	3	22.8	0.22	2	52	5.6	5	0	49.3
Sat. 6	16 31 23	42.2	15 52	3	27.8	0.20	2	56	2.1	6	1	59.1
Sun. 7	N. 16 48 6	41.5	15 52	3	32.2	0.17	2	59	58.7	7	1	18.9
Mon. 8	17 4 33	40.8	15 52	3	36.0	0.15	3	3	55.3	8	1	28.7
Tues. 9	17 20 42	40.0	15 52	3	39.3	0.13	3	7	51.8	9	1	38.6
Wed. 10	N. 17 36 34	39.3	15 52	3	42.1	0.10	3	11	48.4	10	1	48.4
Thur. 11	17 52 9	38.6	15 51	3	44.3	0.08	3	15	44.9	11	1	58.3
Frid. 12	18 7 25	37.8	15 51	3	45.9	0.06	3	19	41.5	12	2	8.1
Sat. 13	N. 18 22 23	37.0	15 51	3	47.0	0.03	3	23	38.0	13	2	18.0
Sun. 14	18 37 2	36.3	15 51	3	47.5	0.01	3	27	34.6	14	2	27.8
Mon. 15	18 51 23	35.5	15 51	3	47.5	0.01	3	31	31.2	15	2	37.7
Tues. 16	N. 19 5 24	34.7	15 50	3	46.9	0.04	3	35	27.7	16	2	47.6
Wed. 17	19 19 6	33.9	15 50	3	45.8	0.06	3	39	24.3	17	2	57.4
Thur. 18	19 32 29	33.0	15 50	3	44.0	0.08	3	43	20.8	18	2	7.3
Frid. 19	N. 19 45 32	32.2	15 50	3	41.8	0.11	3	47	17.4	19	3	17.1
Sat. 20	19 58 14	31.4	15 50	3	39.0	0.13	3	51	13.9	20	3	27.0
Sun. 21	20 10 36	30.5	15 49	3	35.6	0.15	3	55	10.5	21	3	36.8
Mon. 22	N. 20 22 38	29.6	15 49	3	31.6	0.18	3	59	7.1	22	3	46.7
Tues. 23	20 34 19	28.8	15 49	3	27.1	0.20	4	3	3.6	23	3	56.6
Wed. 24	20 45 39	27.9	15 49	3	22.1	0.22	4	7	0.2	24	3	
Thur. 25	N. 20 56 37	27.0	15 49	3	16.6	0.24	4	10	56.7			
Frid. 26	21 7 14	26.1	15 49	3	10.5	0.26	4	14	53.3			
Sat. 27	21 17 29	25.2	15 48	3	3.9	0.28	4	18	49.8			
Sun. 28	N. 21 27 22	24.3	15 48	2	56.8	0.30	4	22	46.4			
Mon. 29	21 36 53	23.3	15 48	2	49.3	0.32	4	26	43.0			
Tues. 30	21 46 1	22.4	15 48	2	41.3	0.34	4	30	39.5			
Wed. 31	21 54 46	21.4	15 48	2	32.9	0.36	4	34	36.1			
Thur. 32	N. 22 3 9	20.5	15 48	2	24.0	0.38	4	38	32.6			

The R. A. of Mer. (local Sidereal Time) is found by adding the Right Ascension of the Mean Sun to the local Mean Time.

JUNE.

AT GREENWICH MEAN NOON.

Date.	Declination.	Var. in hour.	Semi-diameter.	Equation of Time		Var. in hour.	Right Ascension of the Mean Sun (Sidereal Time).			Add for hours.		
				subtract from Apparent Time.	Add to Apparent Time.		h	m	s	h	m	s
Thur. 1	N. 22 3 9	20.5	15 48	2	24.0	0.38	4	38	32.6	1	0	9.9
Frid. 2	22 11 8	19.5	15 47	2	14.8	0.39	4	42	29.2	2	0	19.7
Sat. 3	22 18 45	18.5	15 47	2	5.1	0.41	4	46	25.7	3	0	29.6
Sun. 4	N. 22 25 58	17.6	15 47	1	55.1	0.42	4	50	22.3	4	0	39.4
Mon. 5	22 32 47	16.6	15 47	1	44.8	0.44	4	54	18.9	5	0	49.3
Tues. 6	22 39 13	15.6	15 47	1	34.2	0.45	4	58	15.4	6	1	59.1
Wed. 7	N. 22 45 14	14.6	15 47	1	23.2	0.46	5	2	12.0	7	1	9.0
Thur. 8	22 50 52	13.6	15 47	1	12.0	0.47	5	6	8.5	8	1	18.9
Frid. 9	22 56 6	12.6	15 47	1	0.5	0.48	5	10	5.1	9	1	28.7
Sat. 10	N. 23 0 56	11.6	15 47	0	48.8	0.49	5	14	1.6	10	1	38.6
Sun. 11	23 5 21	10.6	15 46	0	36.9	0.50	5	17	58.2	11	1	48.4
Mon. 12	23 9 22	9.5	15 46	0	24.8	0.51	5	21	54.8	12	1	58.3
Tues. 13	N. 23 12 59	8.5	15 46	0	12.5	0.52	5	25	51.3	13	2	8.1
Wed. 14	23 16 11	7.5	15 46	0	0.1	0.52	5	29	47.9	14	2	18.0
Thur. 15	23 18 58	6.5	15 46	0	12.4	0.53	5	33	44.4	15	2	27.8
Frid. 16	N. 23 21 21	5.4	15 46	0	25.1	0.53	5	37	41.0	16	2	37.7
Sat. 17	23 23 19	4.4	15 46	0	37.9	0.53	5	41	37.6	17	2	47.6
Sun. 18	23 24 53	3.4	15 46	0	50.7	0.54	5	45	34.1	18	2	57.4
Mon. 19	N. 23 26 1	2.4	15 46	1	3.6	0.54	5	49	30.7	19	3	7.3
Tues. 20	23 26 45	1.3	15 46	1	16.6	0.54	5	53	27.2	20	3	17.1
Wed. 21	23 27 4	0.3	15 46	1	29.6	0.54	5	57	23.8	21	3	27.0
Thur. 22	N. 23 26 59	0.8	15 46	1	42.5	0.54	6	1	20.3	22	3	36.8
Frid. 23	23 26 28	1.8	15 46	1	55.5	0.54	6	5	16.9	23	3	46.7
Sat. 24	23 25 33	2.8	15 46	2	8.4	0.54	6	9	13.5	24	3	56.6
Sun. 25	N. 23 24 13	3.9	15 45	2	21.2	0.53	6	13	10.0			
Mon. 26	23 22 28	4.9	15 45	2	34.0	0.53	6	17	6.6			
Tues. 27	23 20 18	5.9	15 45	2	46.6	0.52	6	21	3.1			
Wed. 28	N. 23 17 44	6.9	15 45	2	59.0	0.52	6	24	59.7			
Thur. 29	23 14 45	8.0	15 45	3	11.3	0.51	6	28	56.3			
Frid. 30	23 11 22	9.0	15 45	3	23.3	0.50	6	32	52.8			
Sat. 31	N. 23 7 35	10.0	15 45	3	35.2	0.49	6	36	49.4			

The R. A. of Mer. (local Sidereal Time) is found by adding the Right Ascension of the Mean Sun to the local Mean Time.



JULY.

AT GREENWICH MEAN NOON.

Date.	Declination.	Var. in 1 hour.	Semi-diameter.	Equation of Time Add to Apparent Time.		Var. in 1 hour.	Right Ascension of the Mean Sun (Sidereal Time).			Add for hours.	
				m	s		s	h	m	s	h
Sat. 1	N. 23 7 35	10°0	15 45	3	35.2	0.49	6	36	49.4	1	0 9.9
Sun. 2	23 3 23	11°0	15 45	3	46.8	0.48	6	40	45.9	2	0 19.7
Mon. 3	22 58 47	12°0	15 45	3	58.1	0.46	6	44	42.5	3	0 29.6
Tues. 4	N. 22 53 46	13°0	15 45	4	9.1	0.45	6	48	39.0	4	0 39.4
Wed. 5	22 48 22	14°0	15 45	4	19.7	0.44	6	52	35.6	5	0 49.3
Thur. 6	22 42 35	15°0	15 45	4	30.0	0.42	6	56	32.2	6	0 59.1
Frid. 7	N. 22 36 23	16°0	15 45	4	40.0	0.41	7	0	28.7	7	1 9.0
Sat. 8	22 29 49	16°9	15 45	4	49.5	0.39	7	4	25.3	8	1 18.9
Sun. 9	22 22 50	17°9	15 45	4	58.7	0.37	7	8	21.8	9	1 28.7
Mon. 10	N. 22 15 29	18°9	15 45	5	7.4	0.35	7	12	18.4	10	1 38.6
Tues. 11	22 7 45	19°8	15 45	5	15.7	0.34	7	16	15.0	11	1 48.4
Wed. 12	21 59 38	20°8	15 46	5	23.5	0.32	7	20	11.5	12	1 58.3
Thur. 13	N. 21 51 9	21°7	15 46	5	30.8	0.30	7	24	8.1	13	2 8.1
Frid. 14	21 42 17	22°6	15 46	5	37.7	0.28	7	28	4.6	14	2 18.0
Sat. 15	21 33 3	23°6	15 46	5	44.0	0.26	7	32	1.2	15	2 27.8
Sun. 16	N. 21 23 27	24°5	15 46	5	49.9	0.23	7	35	57.7	16	2 37.7
Mon. 17	21 13 29	25°4	15 46	5	55.3	0.21	7	39	54.3	17	2 47.6
Tues. 18	21 3 10	26°3	15 46	6	0.1	0.19	7	43	50.9	18	2 57.4
Wed. 19	N. 20 52 29	27°2	15 46	6	4.5	0.17	7	47	47.4	19	3 7.3
Thur. 20	20 41 27	28°0	15 46	6	8.3	0.15	7	51	44.0	20	3 17.1
Frid. 21	20 30 4	28°9	15 46	6	11.6	0.13	7	55	40.5	21	3 27.0
Sat. 22	N. 20 18 20	29°8	15 46	6	14.3	0.10	7	59	37.1	22	3 36.8
Sun. 23	20 6 16	30°6	15 46	6	16.5	0.08	8	3	33.6	23	3 46.7
Mon. 24	19 53 52	31°4	15 46	6	18.1	0.06	8	7	30.2	24	3 56.6
Tues. 25	N. 19 41 7	32°3	15 46	6	19.2	0.03	8	11	26.8	Add for minutes.	
Wed. 26	19 28 3	33°1	15 46	6	19.6	0.01	8	15	23.3	m	s
Thur. 27	19 14 39	33°9	15 47	6	19.5	0.02	8	19	19.9	1	0.2
Frid. 28	N. 19 0 57	34°7	15 47	6	18.8	0.04	8	23	16.4	2	0.3
Sat. 29	18 46 55	35°5	15 47	6	17.5	0.07	8	27	13.0	3	0.5
Sun. 30	18 32 35	36°2	15 47	6	15.7	0.09	8	31	9.5	4	0.7
Mon. 31	18 17 56	37°0	15 47	6	13.1	0.12	8	35	6.1	5	0.8
Tues. 32	N. 18 3 0	37°7	15 47	6	10.0	0.14	8	39	2.7	6	1.0
										7	1.1
										8	1.3
										9	1.5
										10	1.6
										20	3.3
										30	4.9
										40	6.6
										50	8.2

The R. A. of Mer. (local Sidereal Time) is found by adding the Right Ascension of the Mean Sun to the local Mean Time.

AUGUST.

AT GREENWICH MEAN NOON.

Date.	Declination.	Var. in 1 hour.	Semi-diameter.	Equation of Time Add to subtract from Apparent Time.		Var. in 1 hour.	Right Ascension of the Mean Sun (Sidereal Time).			Add for hours.	
				m	s		s	h	m	s	h
Tues. 1	N. 18 3 0	37°7	15 47	6	10.0	0.14	8	39	2.7	1	0 9.9
Wed. 2	17 47 46	38°5	15 47	6	6.3	0.17	8	42	59.2	2	0 19.7
Thur. 3	17 32 15	39°2	15 47	6	2.0	0.19	8	46	55.8	3	0 29.6
Frid. 4	N. 17 16 26	39°9	15 48	5	57.0	0.22	8	50	52.3	4	0 39.4
Sat. 5	17 0 21	40°6	15 48	5	51.4	0.25	8	54	48.9	5	0 49.3
Sun. 6	16 43 59	41°2	15 48	5	45.3	0.27	8	58	45.4	6	0 59.1
Mon. 7	N. 16 27 22	41°9	15 48	5	38.5	0.30	9	2	42.0	7	1 9.0
Tues. 8	16 10 28	42°6	15 48	5	31.0	0.32	9	6	38.5	8	1 18.9
Wed. 9	15 53 59	43°2	15 48	5	23.0	0.35	9	10	35.1	9	1 28.7
Thur. 10	N. 15 35 55	43°8	15 48	5	14.4	0.37	9	14	31.7	10	1 38.6
Frid. 11	15 18 16	44°4	15 49	5	5.2	0.40	9	18	28.2	11	1 48.4
Sat. 12	15 0 22	45°0	15 49	4	55.4	0.42	9	22	24.8	12	1 58.3
Sun. 13	N. 14 42 14	45°6	15 49	4	45.1	0.44	9	26	21.3	13	2 8.1
Mon. 14	14 23 52	46°2	15 49	4	34.2	0.47	9	30	17.9	14	2 18.0
Tues. 15	14 5 16	46°8	15 49	4	22.8	0.49	9	34	14.4	15	2 27.8
Wed. 16	N. 13 46 27	47°3	15 49	4	10.9	0.51	9	38	11.0	16	2 37.7
Thur. 17	13 27 24	47°9	15 50	3	58.4	0.53	9	42	7.5	17	2 47.6
Frid. 18	13 8 8	48°4	15 50	3	45.5	0.55	9	46	4.1	18	2 57.4
Sat. 19	N. 12 48 40	48°9	15 50	3	32.1	0.57	9	50	0.6	19	3 7.3
Sun. 20	12 29 0	49°4	15 50	3	18.2	0.59	9	53	57.2	20	3 17.1
Mon. 21	12 9 7	49°9	15 50	3	3.8	0.61	9	57	53.8	21	3 27.0
Tues. 22	N. 11 49 3	50°4	15 51	2	49.0	0.63	10	1	50.3	22	3 36.8
Wed. 23	11 28 47	50°9	15 51	2	33.8	0.64	10	5	46.9	23	3 46.7
Thur. 24	11 8 21	51°3	15 51	2	18.1	0.66	10	9	43.4	24	3 56.6
Frid. 25	N. 10 47 44	51°8	15 51	2	2.0	0.68	10	13	40.0	Add for minutes.	
Sat. 26	10 26 56	52°2	15 51	1	45.6	0.69	10	17	36.5	m	s
Sun. 27	10 5 58	52°6	15 52	1	28.7	0.71	10	21	33.1	1	0.2
Mon. 28	N. 9 44 51	53°0	15 52	1	11.5	0.73	10	25	29.6	2	0.3
Tues. 29	9 23 35	53°4	15 52	0	53.9	0.74	10	29	26.2	3	0.5
Wed. 30	9 2 9	53°7	15 52	0	35.9	0.76	10	33	22.7	4	0.7
Thur. 31	8 40 35	54°1	15 52	0	17.7	0.77	10	37	19.3	5	0.8
Frid. 32	N. 8 18 53	54°4	15 53	0	1.0	0.78	10	41	15.9	6	1.0
										7	1.1
										8	1.3
										9	1.5
										10	1.6
										20	3.3
										30	4.9
										40	6.6
										50	8.2

The R. A. of Mer. (local Sidereal Time) is found by adding the Right Ascension of the Mean Sun to the local Mean Time.



SEPTEMBER.

AT GREENWICH MEAN NOON.

Date.	Declination.	Var. in 1 hour.	Semi-diameter.	Equation of Time Subtract from Apparent Time.		Var. in 1 hour.	Right Ascension of the Mean Sun (Sidereal Time)			Add for hours.	
				m	s		s	h	m	s	h
Frid. 1	N. 8 18 53	54.4	15 53	0	1.0	0.78	10	41	15.9	1	0 9.9
Sat. 2	7 57 2	54.7	15 53	0	19.9	0.79	10	45	12.4	2	0 19.7
Sun. 3	7 35 4	55.1	15 53	0	39.1	0.81	10	49	9.0	3	0 29.6
Mon. 4	N. 7 12 59	55.4	15 53	0	58.6	0.82	10	53	5.5	4	0 39.4
Tues. 5	6 50 47	55.6	15 54	1	18.3	0.83	10	57	2.1	5	0 49.3
Wed. 6	6 28 28	55.9	15 54	1	38.3	0.84	11	0	58.6	6	0 59.1
Thur. 7	N. 6 6 3	56.2	15 54	1	58.6	0.85	11	4	55.2	7	1 9.0
Frid. 8	5 43 33	56.4	15 54	2	19.0	0.86	11	8	51.7	8	1 18.9
Sat. 9	5 20 56	56.6	15 55	2	39.6	0.86	11	12	48.3	9	1 28.7
Sun. 10	N. 4 58 14	56.8	15 55	3	0.4	0.87	11	16	44.8	10	1 38.6
Mon. 11	4 35 27	57.0	15 55	3	21.4	0.88	11	20	41.4	11	1 48.4
Tues. 12	4 12 35	57.2	15 55	3	42.4	0.88	11	24	37.9	12	1 58.3
Wed. 13	N. 3 49 31	57.4	15 56	4	3.6	0.88	11	28	34.5	13	2 8.1
Thur. 14	3 26 38	57.6	15 56	4	24.8	0.89	11	32	31.1	14	2 18.0
Frid. 15	3 3 34	57.7	15 56	4	46.0	0.89	11	36	27.6	15	2 27.8
Sat. 16	N. 2 40 26	57.9	15 56	5	7.3	0.89	11	40	24.2	16	2 37.7
Sun. 17	2 17 15	58.0	15 57	5	28.6	0.89	11	44	20.7	17	2 47.6
Mon. 18	1 54 1	58.1	15 57	5	49.9	0.89	11	48	17.3	18	2 57.4
Tues. 19	N. 1 30 44	58.2	15 57	6	11.2	0.88	11	52	13.8	19	3 7.3
Wed. 20	1 7 26	58.3	15 57	6	32.3	0.88	11	56	10.4	20	3 17.1
Thur. 21	0 44 5	58.4	15 58	6	53.4	0.88	12	0	6.9	21	3 27.0
Frid. 22	N. 0 20 43	58.4	15 58	7	14.4	0.87	12	4	3.5	22	3 36.8
Sat. 23	0 2 41	58.5	15 58	7	35.3	0.87	12	8	0.0	23	3 46.7
Sun. 24	0 26 5	58.5	15 59	7	56.1	0.86	12	11	56.6	24	3 56.6
Mon. 25	S. 0 49 30	58.5	15 59	8	16.7	0.86	12	15	53.1	1	0.2
Tues. 26	1 12 55	58.5	15 59	8	37.1	0.85	12	19	49.7	2	0.3
Wed. 27	1 36 19	58.5	15 59	8	57.4	0.84	12	23	46.2	3	0.5
Thur. 28	S. 1 59 43	58.5	16 0	9	17.4	0.83	12	27	42.8	4	0.7
Frid. 29	2 23 6	58.4	16 0	9	37.2	0.82	12	31	39.3	5	0.8
Sat. 30	2 46 27	58.3	16 0	9	56.8	0.81	12	35	35.9	6	1.0
Sun. 31	S. 3 9 47	58.3	16 0	10	16.1	0.80	12	39	32.5	7	1.1

The R. A. of Mer. (local Sidereal Time) is found by adding the Right Ascension of the Mean Sun to the local Mean Time.

OCTOBER.

AT GREENWICH MEAN NOON.

Date.	Declination.	Var. in 1 hour.	Semi-diameter.	Equation of Time Subtract from Apparent Time.		Var. in 1 hour.	Right Ascension of the Mean Sun (Sidereal Time)			Add for hours.	
				m	s		s	h	m	s	h
Sun. 1	S. 3 9 47	58.3	16 0	10	16.1	0.80	12	39	32.5	1	0 9.9
Mon. 2	3 33 4	58.2	16 1	10	35.1	0.79	12	43	29.0	2	0 19.7
Tues. 3	3 56 19	58.1	16 1	10	53.9	0.78	12	47	25.6	3	0 29.6
Wed. 4	S. 4 19 31	57.9	16 1	11	12.3	0.76	12	51	22.1	4	0 39.4
Thur. 5	4 42 40	57.8	16 2	11	30.4	0.75	12	55	18.7	5	0 49.3
Frid. 6	5 5 45	57.6	16 2	11	48.2	0.73	12	59	15.2	6	0 59.1
Sat. 7	S. 5 28 46	57.5	16 2	12	5.6	0.72	13	3	11.8	7	1 9.0
Sun. 8	5 51 43	57.3	16 2	12	22.6	0.70	13	7	8.3	8	1 18.9
Mon. 9	6 14 36	57.1	16 3	12	39.1	0.68	13	11	4.9	9	1 28.7
Tues. 10	S. 6 37 23	56.9	16 3	12	55.3	0.66	13	15	1.4	10	1 38.6
Wed. 11	7 0 5	56.6	16 3	13	11.0	0.64	13	18	58.0	11	1 48.4
Thur. 12	7 22 42	56.4	16 4	13	26.2	0.62	13	22	54.5	12	1 58.3
Frid. 13	S. 7 45 12	56.1	16 4	13	40.8	0.60	13	26	51.1	13	2 8.1
Sat. 14	8 7 37	55.9	16 4	13	55.0	0.58	13	30	47.6	14	2 18.0
Sun. 15	8 29 54	55.6	16 4	14	8.6	0.56	13	34	44.2	15	2 27.8
Mon. 16	S. 8 52 4	55.3	16 5	14	21.6	0.53	13	38	40.8	16	2 37.7
Tues. 17	9 14 7	55.0	16 5	14	34.1	0.51	13	42	37.3	17	2 47.6
Wed. 18	9 36 2	54.6	16 5	14	45.9	0.48	13	46	33.9	18	2 57.4
Thur. 19	S. 9 57 49	54.3	16 5	14	57.1	0.45	13	50	30.4	19	3 7.3
Frid. 20	10 19 27	53.9	16 6	15	7.7	0.43	13	54	27.0	20	3 17.1
Sat. 21	10 40 56	53.5	16 6	15	17.6	0.40	13	58	23.5	21	3 27.0
Sun. 22	S. 11 2 16	53.1	16 6	15	26.8	0.37	14	2	20.1	22	3 36.8
Mon. 23	11 23 26	52.7	16 6	15	35.4	0.34	14	6	16.6	23	3 46.7
Tues. 24	11 44 25	52.3	16 7	15	43.2	0.31	14	10	13.2	24	3 56.6
Wed. 25	S. 12 5 14	51.8	16 7	15	50.3	0.28	14	14	9.7	1	0.2
Thur. 26	12 25 52	51.3	16 7	15	56.7	0.25	14	18	6.3	2	0.3
Frid. 27	12 46 18	50.8	16 8	16	2.4	0.22	14	22	2.9	3	0.5
Sat. 28	S. 13 6 32	50.3	16 8	16	7.3	0.19	14	25	59.4	4	0.7
Sun. 29	13 26 34	49.8	16 8	16	11.5	0.16	14	29	56.0	5	0.8
Mon. 30	13 46 23	49.3	16 8	16	14.9	0.13	14	33	52.5	6	1.0
Tues. 31	14 5 59	48.7	16 9	16	17.5	0.09	14	37	49.1	7	1.1
Wed. 32	S. 14 25 21	48.1	16 9	16	19.4	0.05	14	41	45.6	8	1.3

The R. A. of Mer. (local Sidereal Time) is found by adding the Right Ascension of the Mean Sun to the local Mean Time.



NOVEMBER.

AT GREENWICH MEAN NOON.

Date.	Declination.	Var. in hour.	Semi-diameter.	Equation of Time		Var. in hour.	Right Ascension of the Mean Sun (Sidereal Time).		
				Subtract from Apparent Time.	Add to Apparent Time.		h	m	s
Wed. 1	S. 14 25 21	48.1	16 9	16 19.4	0.06	14 41 45.6	1	0	9.9
Thur. 2	14 44 29	47.5	16 9	16 20.5	0.03	14 45 42.2	2	0	19.7
Frid. 3	15 3 23	46.9	16 9	16 20.8	0.00	14 49 38.7	3	0	29.6
Sat. 4	S. 15 22 2	46.3	16 10	16 20.4	0.04	14 53 35.3	4	0	39.4
Sun. 5	15 40 25	45.7	16 10	16 19.1	0.07	14 57 31.9	5	0	49.3
Mon. 6	15 58 33	45.0	16 10	16 17.0	0.10	15 1 28.4	6	1	9.0
Tues. 7	S. 16 16 26	44.3	16 10	16 14.1	0.14	15 5 25.0	7	1	18.9
Wed. 8	16 34 1	43.6	16 11	16 10.3	0.17	15 9 21.5	8	1	28.7
Thur. 9	16 51 20	42.9	16 11	16 5.7	0.21	15 13 18.1	9	1	38.6
Frid. 10	S. 17 8 22	42.2	16 11	16 0.3	0.24	15 17 14.6	10	1	48.4
Sat. 11	17 25 6	41.5	16 11	15 54.0	0.28	15 21 11.2	11	1	58.3
Sun. 12	17 41 32	40.7	16 11	15 46.9	0.31	15 25 7.7	12	2	8.1
Mon. 13	S. 17 57 40	40.0	16 12	15 38.9	0.35	15 29 4.3	13	2	18.0
Tues. 14	18 13 29	39.2	16 12	15 30.1	0.39	15 33 0.9	14	2	27.8
Wed. 15	18 28 59	38.4	16 12	15 20.4	0.42	15 36 57.4	15	2	37.7
Thur. 16	S. 18 44 10	37.5	16 12	15 9.8	0.46	15 40 54.0	16	2	47.6
Frid. 17	18 59 1	36.7	16 13	14 58.4	0.49	15 44 50.5	17	2	57.4
Sat. 18	19 13 31	35.9	16 13	14 46.1	0.53	15 48 47.1	18	3	7.3
Sun. 19	S. 19 27 41	35.0	16 13	14 33.0	0.56	15 52 43.6	19	3	17.1
Mon. 20	19 41 29	34.1	16 13	14 19.0	0.60	15 56 40.2	20	3	27.0
Tues. 21	19 54 57	33.2	16 13	14 4.2	0.63	16 0 36.8	21	3	36.8
Wed. 22	S. 20 8 2	32.3	16 13	13 48.6	0.67	16 4 33.3	22	3	46.7
Thur. 23	20 20 45	31.4	16 14	13 32.2	0.70	16 8 29.9	23	3	56.6
Frid. 24	20 33 6	30.4	16 14	13 15.0	0.73	16 12 26.4	24	3	56.6
Sat. 25	S. 20 45 4	29.4	16 14	12 57.0	0.77	16 16 23.0	25	3	36.8
Sun. 26	20 56 38	28.5	16 14	12 38.2	0.80	16 20 19.5	26	3	46.7
Mon. 27	21 7 49	27.5	16 14	12 18.8	0.83	16 24 16.1	27	3	56.6
Tues. 28	S. 21 18 36	26.5	16 15	11 58.6	0.86	16 28 12.7	28	3	36.8
Wed. 29	21 28 59	25.5	16 15	11 37.7	0.88	16 32 9.2	29	3	46.7
Thur. 30	21 38 58	24.4	16 15	11 16.2	0.91	16 36 5.8	30	3	56.6
Frid. 31	S. 21 48 31	23.4	16 15	10 54.0	0.94	16 40 2.3	31	3	36.8

The R. A. of Mer. (local Sidereal Time) is found by adding the Right Ascension of the Mean Sun to the local Mean Time.

DECEMBER.

AT GREENWICH MEAN NOON.

Date.	Declination.	Var. in hour.	Semi-diameter.	Equation of Time		Var. in hour.	Right Ascension of the Mean Sun (Sidereal Time).		
				Subtract from Apparent Time.	Add to Apparent Time.		h	m	s
Frid. 1	S. 21 48 31	23.4	16 15	10 54.0	0.94	16 40 2.3	1	0	9.9
Sat. 2	21 57 39	22.3	16 15	10 31.2	0.96	16 43 58.9	2	0	19.7
Sun. 3	22 6 22	21.3	16 15	10 7.8	0.99	16 47 55.4	3	0	29.6
Mon. 4	S. 22 14 40	20.2	16 15	9 43.8	1.01	16 51 52.0	4	0	39.4
Tues. 5	22 22 31	19.1	16 16	9 19.3	1.03	16 55 48.6	5	0	49.3
Wed. 6	22 29 57	18.0	16 16	8 54.2	1.06	16 59 45.1	6	0	59.1
Thur. 7	S. 22 36 56	16.9	16 16	8 28.6	1.08	17 3 41.7	7	1	9.0
Frid. 8	22 43 28	15.8	16 16	8 2.5	1.10	17 7 38.2	8	1	18.9
Sat. 9	22 49 34	14.7	16 16	7 36.0	1.12	17 11 34.8	9	1	28.7
Sun. 10	S. 22 55 13	13.6	16 16	7 9.0	1.13	17 15 31.4	10	1	38.6
Mon. 11	23 0 25	12.4	16 16	6 41.6	1.15	17 19 27.9	11	1	48.4
Tues. 12	23 5 9	11.3	16 16	6 13.8	1.17	17 23 24.5	12	1	58.3
Wed. 13	S. 23 9 26	10.1	16 17	5 45.6	1.18	17 27 21.0	13	2	8.1
Thur. 14	23 13 15	9.0	16 17	5 17.1	1.19	17 31 17.6	14	2	18.0
Frid. 15	23 16 37	7.8	16 17	4 48.4	1.21	17 35 14.1	15	2	27.8
Sat. 16	S. 23 19 30	6.7	16 17	4 19.3	1.22	17 39 10.7	16	2	37.7
Sun. 17	23 21 56	5.5	16 17	3 50.0	1.23	17 43 7.3	17	2	47.6
Mon. 18	23 23 54	4.3	16 17	3 20.5	1.23	17 47 3.8	18	2	57.4
Tues. 19	S. 23 25 23	3.1	16 17	2 50.8	1.24	17 51 0.4	19	3	7.3
Wed. 20	23 26 24	2.0	16 17	2 20.9	1.25	17 54 56.9	20	3	17.1
Thur. 21	23 26 57	0.8	16 17	1 51.0	1.25	17 58 53.5	21	3	27.0
Frid. 22	S. 23 27 2	0.4	16 17	1 21.0	1.25	18 2 50.1	22	3	36.8
Sat. 23	23 26 38	1.6	16 17	0 50.9	1.25	18 6 46.6	23	3	46.7
Sun. 24	23 25 46	2.8	16 17	0 20.9	1.25	18 10 43.2	24	3	56.6
Mon. 25	S. 23 24 26	3.9	16 17	0 9.1	1.25	18 14 39.7	25	3	36.8
Tues. 26	23 22 37	5.1	16 17	0 39.0	1.24	18 18 36.3	26	3	46.7
Wed. 27	23 20 20	6.3	16 17	1 8.8	1.24	18 22 32.8	27	3	56.6
Thur. 28	S. 23 17 36	7.5	16 17	1 38.4	1.23	18 26 29.4	28	3	36.8
Frid. 29	23 14 23	8.6	16 17	2 7.8	1.22	18 30 26.0	29	3	46.7
Sat. 30	23 10 42	9.8	16 18	2 37.0	1.21	18 34 22.5	30	3	56.6
Sun. 31	23 6 33	10.9	16 18	3 5.9	1.20	18 38 19.1	31	4	7.3
Mon. 32	S. 23 1 57	12.1	16 18	3 34.5	1.19	18 42 15.6	32	4	17.1

The R. A. of Mer. (local Sidereal Time) is found by adding the Right Ascension of the Mean Sun to the local Mean Time.



JANUARY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Saturday 1.</b>				<b>Wednesday 5.</b>			
h	h m s	° ' "	m s	h	h m s	° ' "	m s
0	18 39 16.2	S. 23 5.6	+ 3 10.9	0	18 55 2.4	S. 22 44.0	+ 5 3.4
2	18 39 35.9	23 5.3	3 13.3	2	18 55 22.1	22 43.5	5 5.7
4	18 39 55.6	23 4.9	3 15.7	4	18 55 41.8	22 43.0	5 8.0
6	18 40 15.3	23 4.5	3 18.1	6	18 56 1.5	22 42.5	5 10.3
8	18 40 35.1	23 4.1	3 20.5	8	18 56 21.3	22 41.9	5 12.5
10	18 40 54.8	23 3.7	3 22.9	10	18 56 41.0	22 41.4	5 14.8
12	18 41 14.5	23 3.3	3 25.3	12	18 57 0.7	22 40.9	5 17.1
14	18 41 34.2	23 2.9	3 27.7	14	18 57 20.4	22 40.3	5 19.4
16	18 41 53.9	23 2.5	3 30.1	16	18 57 40.1	22 39.7	5 21.6
18	18 42 13.7	23 2.1	3 32.5	18	18 57 59.9	22 39.2	5 23.9
20	18 42 33.4	23 1.7	3 34.9	20	18 58 19.6	22 38.6	5 26.2
22	18 42 53.1	S. 23 1.3	+ 3 37.3	22	18 58 39.3	S. 22 38.0	+ 5 28.4
<b>Sunday 2.</b>				<b>Thursday 6.</b>			
0	18 43 12.8	S. 23 0.9	+ 3 39.6	0	18 58 59.0	S. 22 37.4	+ 5 30.6
2	18 43 32.5	23 0.5	3 42.0	2	18 59 18.7	22 36.9	5 32.9
4	18 43 52.2	23 0.1	3 44.4	4	18 59 38.4	22 36.3	5 35.2
6	18 44 11.9	22 59.7	3 46.8	6	18 59 58.1	22 35.7	5 37.4
8	18 44 31.7	22 59.2	3 49.1	8	19 0 17.9	22 35.1	5 39.6
10	18 44 51.4	22 58.8	3 51.5	10	19 0 37.6	22 34.6	5 41.9
12	18 45 11.1	22 58.4	3 53.9	12	19 0 57.3	22 34.0	5 44.1
14	18 45 30.8	22 58.0	3 56.2	14	19 1 17.0	22 33.4	5 46.3
16	18 45 50.5	22 57.5	3 58.5	16	19 1 36.7	22 32.8	5 48.5
18	18 46 10.2	22 57.1	4 0.9	18	19 1 56.4	22 32.2	5 50.7
20	18 46 29.9	22 56.7	4 3.3	20	19 2 16.1	22 31.6	5 52.9
22	18 46 49.6	S. 22 56.2	+ 4 5.6	22	19 2 35.8	S. 22 31.0	+ 5 55.1
<b>Monday 3.</b>				<b>Friday 7.</b>			
0	18 47 9.3	S. 22 55.7	+ 4 7.9	0	19 2 55.5	S. 22 30.4	+ 5 57.3
2	18 47 29.0	22 55.3	4 10.3	2	19 3 15.2	22 29.8	5 59.5
4	18 47 48.7	22 54.9	4 12.6	4	19 3 34.9	22 29.2	6 1.7
6	18 48 8.4	22 54.4	4 14.9	6	19 3 54.6	22 28.6	6 3.9
8	18 48 28.2	22 53.9	4 17.2	8	19 4 14.4	22 28.0	6 6.1
10	18 48 47.9	22 53.5	4 19.6	10	19 4 34.1	22 27.4	6 8.3
12	18 49 7.6	22 53.0	4 21.9	12	19 4 53.8	22 26.8	6 10.5
14	18 49 27.3	22 52.5	4 24.2	14	19 5 13.5	22 26.2	6 12.7
16	18 49 47.0	22 52.0	4 26.5	16	19 5 33.2	22 25.5	6 14.8
18	18 50 6.8	22 51.6	4 28.9	18	19 5 53.0	22 24.9	6 17.0
20	18 50 26.5	22 51.1	4 31.2	20	19 6 12.7	22 24.3	6 19.2
22	18 50 46.2	S. 22 50.6	+ 4 33.5	22	19 6 32.4	S. 22 23.7	+ 6 21.4
<b>Tuesday 4.</b>				<b>Saturday 8.</b>			
0	18 51 5.9	S. 22 50.1	+ 4 35.8	0	19 6 52.1	S. 22 23.0	+ 6 23.5
2	18 51 25.6	22 49.6	4 38.1	2	19 7 11.8	22 22.4	6 25.7
4	18 51 45.3	22 49.1	4 40.4	4	19 7 31.5	22 21.8	6 27.9
6	18 52 5.0	22 48.6	4 42.7	6	19 7 51.2	22 21.1	6 30.0
8	18 52 24.8	22 48.1	4 45.0	8	19 8 11.0	22 20.4	6 32.1
10	18 52 44.5	22 47.6	4 47.3	10	19 8 30.7	22 19.8	6 34.3
12	18 53 4.2	22 47.1	4 49.6	12	19 8 50.4	22 19.2	6 36.5
14	18 53 23.9	22 46.6	4 51.9	14	19 9 10.1	22 18.5	6 38.6
16	18 53 43.6	22 46.1	4 54.2	16	19 9 29.8	22 17.8	6 40.7
18	18 54 3.3	22 45.6	4 56.5	18	19 9 49.6	22 17.2	6 42.9
20	18 54 23.0	22 45.1	4 58.8	20	19 10 9.3	22 16.5	6 45.0
22	18 54 42.7	S. 22 44.6	+ 5 1.1	22	19 10 29.0	S. 22 15.8	+ 6 47.1

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean Time.

JANUARY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Sunday 9.</b>				<b>Thursday 13.</b>			
h	h m s	° ' "	m s	h	h m s	° ' "	m s
0	19 10 48.7	S. 22 15.1	+ 6 49.2	0	19 26 34.9	S. 21 39.3	+ 8 26.5
2	19 11 8.4	22 14.5	6 51.4	2	19 26 54.6	21 38.5	8 28.5
4	19 11 28.1	22 13.8	6 53.5	4	19 27 14.3	21 37.7	8 30.4
6	19 11 47.8	22 13.1	6 55.6	6	19 27 34.0	21 36.9	8 32.3
8	19 12 7.6	22 12.4	6 57.7	8	19 27 53.8	21 36.0	8 34.2
10	19 12 27.3	22 11.7	6 59.8	10	19 28 13.5	21 35.2	8 36.1
12	19 12 47.0	22 11.0	7 1.9	12	19 28 33.2	21 34.4	8 38.0
14	19 13 6.7	22 10.3	7 4.0	14	19 28 52.9	21 33.6	8 39.9
16	19 13 26.4	22 9.6	7 6.1	16	19 29 12.6	21 32.7	8 41.8
18	19 13 46.1	22 8.9	7 8.2	18	19 29 32.4	21 31.9	8 43.7
20	19 14 5.8	22 8.2	7 10.3	20	19 29 52.1	21 31.1	8 45.6
22	19 14 25.5	S. 22 7.5	+ 7 12.4	22	19 30 11.8	S. 21 30.2	+ 8 47.5
<b>Monday 10.</b>				<b>Friday 14.</b>			
0	19 14 45.2	S. 22 6.8	+ 7 14.4	0	19 30 31.5	S. 21 29.3	+ 8 49.3
2	19 15 4.9	22 6.1	7 16.5	2	19 30 51.2	21 28.5	8 51.2
4	19 15 24.6	22 5.4	7 18.6	4	19 31 10.9	21 27.7	8 53.1
6	19 15 44.3	22 4.7	7 20.7	6	19 31 30.6	21 26.8	8 54.9
8	19 16 4.1	22 4.0	7 22.7	8	19 31 50.4	21 25.9	8 56.7
10	19 16 23.8	22 3.3	7 24.8	10	19 32 10.1	21 25.1	8 58.6
12	19 16 43.5	22 2.6	7 26.9	12	19 32 29.8	21 24.2	9 0.5
14	19 17 3.2	22 1.9	7 28.9	14	19 32 49.5	21 23.3	9 2.3
16	19 17 22.9	22 1.1	7 30.9	16	19 33 9.2	21 22.4	9 4.1
18	19 17 42.7	22 0.4	7 33.0	18	19 33 28.9	21 21.6	9 6.0
20	19 18 2.4	21 59.7	7 35.0	20	19 33 48.6	21 20.7	9 7.8
22	19 18 22.1	S. 21 58.9	+ 7 37.0	22	19 34 8.3	S. 21 19.8	+ 9 9.6
<b>Tuesday 11.</b>				<b>Saturday 15.</b>			
0	19 18 41.8	S. 21 58.1	+ 7 39.0	0	19 34 28.0	S. 21 18.9	+ 9 11.4
2	19 19 1.5	21 57.4	7 41.1	2	19 34 47.7	21 18.1	9 13.2
4	19 19 21.2	21 56.7	7 43.1	4	19 35 7.4	21 17.2	9 15.0
6	19 19 40.9	21 55.9	7 45.1	6	19 35 27.1	21 16.3	9 16.8
8	19 20 0.7	21 55.1	7 47.1	8	19 35 46.9	21 15.4	9 18.6
10	19 20 20.4	21 54.4	7 49.1	10	19 36 6.6	21 14.5	9 20.4
12	19 20 40.1	21 53.6	7 51.1	12	19 36 26.3	21 13.6	9 22.2
14	19 20 59.8	21 52.8	7 53.1	14	19 36 46.0	21 12.7	9 24.0
16	19 21 19.5	21 52.1	7 55.1	16	19 37 5.7	21 11.8	9 25.7
18	19 21 39.2	21 51.3	7 57.1	18	19 37 25.5	21 10.9	9 27.5
20	19 21 58.9	21 50.5	7 59.1	20	19 37 45.2	21 10.0	9 29.3
22	19 22 18.6	S. 21 49.7	+ 8 1.1	22	19 38 4.9	S. 21 9.1	+ 9 31.1
<b>Wednesday 12.</b>				<b>Sunday 16.</b>			
0	19 22 38.3	S. 21 48.9	+ 8 3.1	0	19 38 24.6	S. 21 8.1	+ 9 32.8
2	19 22 58.0	21 48.1	8 5.1	2	19 38 44.3	21 7.2	9 34.6
4	19 23 17.7	21 47.3	8 7.1	4	19 39 4.0	21 6.3	9 36.4
6	19 23 37.4	21 46.5	8 9.1	6	19 39 23.7	21 5.4	9 38.1
8	19 23 57.2	21 45.7	8 11.0	8	19 39 43.5	21 4.4	9 39.8
10	19 24 16.9	21 44.9	8 13.0	10	19 40 3.2	21 3.5	9 41.6
12	19 24 36.6	21 44.1	8 15.0	12	19 40 22.9	21 2.6	9 43.3
14	19 24 56.3	21 43.3	8 16.9	14	19 40 42.6	21 1.6	9 45.0
16	19 25 16.0	21 42.5	8 18.8	16	19 41 2.3	21 0.6	9 46.7
18	19 25 35.8	21 41.7	8 20.8	18	19 41 22.0	20 59.7	9 48.5
20	19 25 55.5	21 40.9	8 22.7	20	19 41 41.7	20 58.8	9 50.2
22	19 26 15.2	S. 21 40.1	+ 8 24.6	22	19 42 1.4	S. 20 57.8	+ 9 51.9

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean Time.



JANUARY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Monday 17.</b>				<b>Friday 21.</b>			
h	h	m	s	h	h	m	s
0	19 42	21.1	S. 20 56.8 + 9 53.6	0	19 58	7.4	S. 20 8.0 + 11 9.6
2	19 42	40.8	20 55.9 9 55.3	2	19 58	27.1	20 6.9 11 11.1
4	19 43	0.5	20 55.0 9 57.0	4	19 58	46.8	20 5.8 11 12.6
6	19 43	20.2	20 54.0 9 58.7	6	19 59	6.5	20 4.7 11 14.0
8	19 43	40.0	20 53.0 10 0.4	8	19 59	26.3	20 3.6 11 15.4
10	19 43	59.7	20 52.1 10 2.1	10	19 59	46.0	20 2.5 11 16.9
12	19 44	19.4	20 51.1 10 3.8	12	20 0	5.7	20 1.4 11 18.3
14	19 44	39.1	20 50.1 10 5.5	14	20 0	25.4	20 0.3 11 19.7
16	19 44	58.8	20 49.1 10 7.1	16	20 0	45.1	19 59.2 11 21.1
18	19 45	18.6	20 48.2 10 8.8	18	20 1	4.8	19 58.1 11 22.5
20	19 45	38.3	20 47.2 10 10.5	20	20 1	24.5	19 57.0 11 23.9
22	19 45	58.0	S. 20 46.2 + 10 12.1	22	20 1	44.2	S. 19 55.9 + 11 25.3
<b>Tuesday 18.</b>				<b>Saturday 22.</b>			
0	19 46	17.7	S. 20 45.2 + 10 13.7	0	20 2	3.9	S. 19 54.8 + 11 26.7
2	19 46	37.4	20 44.2 10 15.4	2	20 2	23.6	19 53.7 11 28.1
4	19 46	57.1	20 43.2 10 17.0	4	20 2	43.3	19 52.6 11 29.5
6	19 47	16.8	20 42.2 10 18.6	6	20 3	3.0	19 51.5 11 30.9
8	19 47	36.6	20 41.2 10 20.2	8	20 3	22.8	19 50.3 11 32.2
10	19 47	56.3	20 40.2 10 21.8	10	20 3	42.5	19 49.2 11 33.6
12	19 48	16.0	20 39.2 10 23.4	12	20 4	2.2	19 48.1 11 35.0
14	19 48	35.7	20 38.2 10 25.0	14	20 4	21.9	19 47.0 11 36.4
16	19 48	55.4	20 37.2 10 26.6	16	20 4	41.6	19 45.8 11 37.7
18	19 49	15.1	20 36.2 10 28.2	18	20 5	1.4	19 44.7 11 39.1
20	19 49	34.8	20 35.2 10 29.8	20	20 5	21.1	19 43.6 11 40.5
22	19 49	54.5	S. 20 34.2 + 10 31.4	22	20 5	40.8	S. 19 42.5 + 11 41.8
<b>Wednesday 19.</b>				<b>Sunday 23.</b>			
0	19 50	14.2	S. 20 33.2 + 10 33.0	0	20 6	0.5	S. 19 41.3 + 11 43.1
2	19 50	33.9	20 32.2 10 34.6	2	20 6	20.2	19 40.2 11 44.5
4	19 50	53.6	20 31.2 10 36.2	4	20 6	39.9	19 39.1 11 45.8
6	19 51	13.3	20 30.2 10 37.8	6	20 6	59.6	19 37.9 11 47.1
8	19 51	33.1	20 29.1 10 39.3	8	20 7	19.4	19 36.7 11 48.4
10	19 51	52.8	20 28.1 10 40.9	10	20 7	39.1	19 35.6 11 49.7
12	19 52	12.5	20 27.1 10 42.5	12	20 7	58.8	19 34.5 11 51.0
14	19 52	32.2	20 26.1 10 44.1	14	20 8	18.5	19 33.3 11 52.3
16	19 52	51.9	20 25.0 10 45.6	16	20 8	38.2	19 32.1 11 53.6
18	19 53	11.7	20 24.0 10 47.2	18	20 8	57.9	19 31.0 11 54.9
20	19 53	31.4	20 23.0 10 48.7	20	20 9	17.6	19 29.8 11 56.2
22	19 53	51.1	S. 20 21.9 + 10 50.2	22	20 9	37.3	S. 19 28.6 + 11 57.5
<b>Thursday 20.</b>				<b>Monday 24.</b>			
0	19 54	10.8	S. 20 20.8 + 10 51.7	0	20 9	57.0	S. 19 27.4 + 11 58.7
2	19 54	30.5	20 19.8 10 53.2	2	20 10	16.7	19 26.3 12 0.0
4	19 54	50.2	20 18.8 10 54.7	4	20 10	36.4	19 25.1 12 1.3
6	19 55	9.9	20 17.7 10 56.2	6	20 10	56.1	19 23.9 12 2.5
8	19 55	29.7	20 16.6 10 57.7	8	20 11	15.9	19 22.7 12 3.7
10	19 55	49.4	20 15.6 10 59.2	10	20 11	35.6	19 21.5 12 5.0
12	19 56	9.1	20 14.5 11 0.7	12	20 11	55.3	19 20.3 12 6.3
14	19 56	28.8	20 13.4 11 2.2	14	20 12	15.0	19 19.1 12 7.5
16	19 56	48.5	20 12.3 11 3.7	16	20 12	34.7	19 17.9 12 8.7
18	19 57	8.3	20 11.3 11 5.2	18	20 12	54.5	19 16.7 12 10.0
20	19 57	28.0	20 10.2 11 6.7	20	20 13	14.2	19 15.5 12 11.2
22	19 57	47.7	S. 20 9.1 + 11 8.2	22	20 13	33.9	S. 19 14.3 + 12 12.4

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean Time.

JANUARY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Tuesday 25.</b>				<b>Saturday 29.</b>			
h	h	m	s	h	h	m	s
0	20 13	53.6	S. 19 13.1 + 12 13.6	0	20 29	39.8	S. 18 12.5 + 13 5.2
2	20 14	13.3	19 11.9 12 14.8	2	20 29	59.5	18 11.2 13 6.2
4	20 14	33.0	19 10.7 12 16.0	4	20 30	19.2	18 9.9 13 7.1
6	20 14	52.7	19 9.5 12 17.2	6	20 30	38.9	18 8.6 13 8.0
8	20 15	12.5	19 8.3 12 18.4	8	20 30	58.7	18 7.2 13 8.9
10	20 15	32.2	19 7.1 12 19.6	10	20 31	18.4	18 5.9 13 9.9
12	20 15	51.9	19 5.9 12 20.8	12	20 31	38.1	18 4.6 13 10.8
14	20 16	11.6	19 4.7 12 22.0	14	20 31	57.8	18 3.3 13 11.7
16	20 16	31.3	19 3.4 12 23.1	16	20 32	17.5	18 1.9 13 12.6
18	20 16	51.0	19 2.2 12 24.3	18	20 32	37.3	18 0.6 13 13.5
20	20 17	10.7	19 1.0 12 25.5	20	20 32	57.0	17 59.3 13 14.4
22	20 17	30.4	S. 18 59.8 + 12 26.6	22	20 33	16.7	S. 17 57.9 + 13 15.3
<b>Wednesday 26.</b>				<b>Sunday 30.</b>			
0	20 17	50.1	S. 18 58.5 + 12 27.7	0	20 33	36.4	S. 17 56.5 + 13 16.2
2	20 18	9.8	18 57.3 12 28.9	2	20 33	56.1	17 55.2 13 17.1
4	20 18	29.5	18 56.1 12 30.0	4	20 34	15.8	17 53.9 13 18.0
6	20 18	49.2	18 54.8 12 31.1	6	20 34	35.5	17 52.5 13 18.8
8	20 19	9.0	18 53.5 12 32.2	8	20 34	55.3	17 51.1 13 19.6
10	20 19	28.7	18 52.3 12 33.3	10	20 35	15.0	17 49.8 13 20.5
12	20 19	48.4	18 51.1 12 34.4	12	20 35	34.7	17 48.5 13 21.4
14	20 20	8.1	18 49.8 12 35.5	14	20 35	54.4	17 47.1 13 22.2
16	20 20	27.8	18 48.5 12 36.6	16	20 36	14.1	17 45.7 13 23.0
18	20 20	47.6	18 47.3 12 37.7	18	20 36	33.8	17 44.4 13 23.9
20	20 21	7.3	18 46.1 12 38.8	20	20 36	53.5	17 43.0 13 24.7
22	20 21	27.0	S. 18 44.8 + 12 39.9	22	20 37	13.2	S. 17 41.6 + 13 25.5
<b>Thursday 27.</b>				<b>Monday 31.</b>			
0	20 21	46.7	S. 18 43.5 + 12 41.0	0	20 37	32.9	S. 17 40.2 + 13 26.3
2	20 22	6.4	18 42.3 12 42.1	2	20 37	52.6	17 38.9 13 27.1
4	20 22	26.1	18 41.0 12 43.2	4	20 38	12.3	17 37.5 13 27.9
6	20 22	45.8	18 39.7 12 44.3	6	20 38	32.0	17 36.1 13 28.7
8	20 23	5.6	18 38.4 12 45.3	8	20 38	51.8	17 34.7 13 29.5
10	20 23	25.3	18 37.2 12 46.4	10	20 39	11.5	17 33.4 13 30.3
12	20 23	45.0	18 35.9 12 47.5	12	20 39	31.2	17 32.0 13 31.1
14	20 24	4.7	18 34.6 12 48.5	14	20 39	50.9	17 30.6 13 31.9
16	20 24	24.4	18 33.3 12 49.5	16	20 40	10.6	17 29.2 13 32.6
18	20 24	44.2	18 32.1 12 50.5	18	20 40	30.4	17 27.8 13 33.4
20	20 25	3.9	18 30.8 12 51.5	20	20 40	50.1	17 26.4 13 34.2
22	20 25	23.6	S. 18 29.5 + 12 52.5	22	20 41	9.8	17 25.0 13 34.9
<b>Friday 28.</b>				<b>Tuesday 29.</b>			
0	20 25	43.3	S. 18 28.2 + 12 53.5	0	20 41	29.5	S. 17 23.6 + 13 35.6
2	20 26	3.0	18 26.9 12 54.5				
4	20 26	22.7	18 25.6 12 55.5				
6	20 26	42.4	18 24.3 12 56.5				
8	20 27	2.2	18 23.0 12 57.5				
10	20 27	21.9	18 21.7 12 58.5				
12	20 27	41.6	18 20.4 12 59.5				
14	20 28	1.3	18 19.1 13 0.5				
16	20 28	21.0	18 17.8 13 1.4				
18	20 28	40.7	18 16.5 13 2.4				
20	20 29	0.4	18 15.2 13 3.4				
22	20 29	20.1	S. 18 13.9 + 13 4.3				

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean Time.



FEBRUARY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Tuesday 1.</b>				<b>Saturday 5.</b>			
h	h	m	s	h	h	m	s
0	20	41	29.5	0	20	57	15.7
2	20	41	49.2	2	20	57	35.4
4	20	42	8.9	4	20	57	55.1
6	20	42	28.6	6	20	58	14.8
8	20	42	48.4	8	20	58	34.6
10	20	43	8.1	10	20	58	54.3
12	20	43	27.8	12	20	59	14.0
14	20	43	47.5	14	20	59	33.7
16	20	44	7.2	16	20	59	53.4
18	20	44	26.9	18	21	0	13.2
20	20	44	46.6	20	21	0	32.9
22	20	45	6.3	22	21	0	52.6
<b>Wednesday 2.</b>				<b>Sunday 6.</b>			
0	20	45	26.0	0	21	1	12.3
2	20	45	45.7	2	21	1	32.0
4	20	46	5.4	4	21	1	51.7
6	20	46	25.1	6	21	2	11.4
8	20	46	44.9	8	21	2	31.2
10	20	47	4.6	10	21	2	50.9
12	20	47	24.3	12	21	3	10.6
14	20	47	44.0	14	21	3	30.3
16	20	48	3.7	16	21	3	50.0
18	20	48	23.5	18	21	4	9.7
20	20	48	43.2	20	21	4	29.4
22	20	49	2.9	22	21	4	49.1
<b>Thursday 3.</b>				<b>Monday 7.</b>			
0	20	49	22.6	0	21	5	8.8
2	20	49	42.3	2	21	5	28.5
4	20	50	2.0	4	21	5	48.2
6	20	50	21.7	6	21	6	7.9
8	20	50	41.5	8	21	6	27.7
10	20	51	1.2	10	21	6	47.4
12	20	51	20.9	12	21	7	7.1
14	20	51	40.6	14	21	7	26.8
16	20	52	0.3	16	21	7	46.5
18	20	52	20.1	18	21	8	6.3
20	20	52	39.8	20	21	8	26.0
22	20	52	59.5	22	21	8	45.7
<b>Friday 4.</b>				<b>Tuesday 8.</b>			
0	20	53	19.2	0	21	9	5.4
2	20	53	38.9	2	21	9	25.1
4	20	53	58.6	4	21	9	44.8
6	20	54	18.3	6	21	10	4.5
8	20	54	38.1	8	21	10	24.3
10	20	54	57.8	10	21	10	44.0
12	20	55	17.5	12	21	11	3.7
14	20	55	37.2	14	21	11	23.4
16	20	55	56.9	16	21	11	43.1
18	20	56	16.6	18	21	12	2.8
20	20	56	36.3	20	21	12	22.5
22	20	56	56.0	22	21	12	42.2

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean Time.

FEBRUARY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Wednesday 9.</b>				<b>Sunday 13.</b>			
h	h	m	s	h	h	m	s
0	21	13	1.9	0	21	28	48.2
2	21	13	21.6	2	21	29	7.9
4	21	13	41.3	4	21	29	27.6
6	21	14	1.0	6	21	29	47.3
8	21	14	20.8	8	21	30	7.1
10	21	14	40.5	10	21	30	26.8
12	21	15	0.2	12	21	30	46.5
14	21	15	19.9	14	21	31	6.2
16	21	15	39.6	16	21	31	25.9
18	21	15	59.4	18	21	31	45.6
20	21	16	19.1	20	21	32	5.3
22	21	16	38.8	22	21	32	25.0
<b>Thursday 10.</b>				<b>Monday 14.</b>			
0	21	16	58.5	0	21	32	44.7
2	21	17	18.2	2	21	33	4.4
4	21	17	37.9	4	21	33	24.1
6	21	17	57.6	6	21	33	43.8
8	21	18	17.4	8	21	34	3.6
10	21	18	37.1	10	21	34	23.3
12	21	18	56.8	12	21	34	43.0
14	21	19	16.5	14	21	35	2.7
16	21	19	36.2	16	21	35	22.4
18	21	19	55.9	18	21	35	42.2
20	21	20	15.6	20	21	36	1.9
22	21	20	35.3	22	21	36	21.6
<b>Friday 11.</b>				<b>Tuesday 15.</b>			
0	21	20	55.0	0	21	36	41.3
2	21	21	14.7	2	21	37	1.0
4	21	21	34.4	4	21	37	20.7
6	21	21	54.1	6	21	37	40.4
8	21	22	13.9	8	21	38	0.2
10	21	22	33.6	10	21	38	19.9
12	21	22	53.3	12	21	38	39.6
14	21	23	13.0	14	21	38	59.3
16	21	23	32.7	16	21	39	19.0
18	21	23	52.5	18	21	39	38.7
20	21	24	12.2	20	21	39	58.4
22	21	24	31.9	22	21	40	18.1
<b>Saturday 12.</b>				<b>Wednesday 16.</b>			
0	21	24	51.6	0	21	40	37.8
2	21	25	11.3	2	21	40	57.5
4	21	25	31.0	4	21	41	17.2
6	21	25	50.7	6	21	41	36.9
8	21	26	10.5	8	21	41	56.7
10	21	26	30.2	10	21	42	16.4
12	21	26	49.9	12	21	42	36.1
14	21	27	9.6	14	21	42	55.8
16	21	27	29.3	16	21	43	15.5
18	21	27	49.1	18	21	43	35.3
20	21	28	8.8	20	21	43	55.0
22	21	28	28.5	22	21	44	14.7

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean Time.



FEBRUARY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Thursday 17.</b>				<b>Monday 21.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	21 44 34.4	S. 12 20.7	+ 14 14.6	0	22 0 20.6	S. 10 56.0	+ 13 53.9
2	21 44 54.1	12 19.0	14 14.3	2	22 0 40.3	10 54.2	13 53.4
4	21 45 13.8	12 17.3	14 14.0	4	22 1 0.0	10 52.4	13 52.9
6	21 45 33.5	12 15.6	14 13.7	6	22 1 19.7	10 50.6	13 52.3
8	21 45 53.3	12 13.8	14 13.3	8	22 1 39.5	10 48.8	13 51.7
10	21 46 13.0	12 12.1	14 13.0	10	22 1 59.2	10 47.0	13 51.2
12	21 46 32.7	12 10.4	14 12.7	12	22 2 18.9	10 45.2	13 50.6
14	21 46 52.4	12 8.6	14 12.3	14	22 2 38.6	10 43.4	13 50.0
16	21 47 12.1	12 6.8	14 11.9	16	22 2 58.3	10 41.6	13 49.4
18	21 47 31.8	12 5.1	14 11.6	18	22 3 18.1	10 39.8	13 48.8
20	21 47 51.5	12 3.4	14 11.3	20	22 3 37.8	10 38.0	13 48.2
22	21 48 11.2	S. 12 1.6	+ 14 10.9	22	22 3 57.5	S. 10 36.2	+ 13 47.6
<b>Friday 18.</b>				<b>Tuesday 22.</b>			
0	21 48 30.9	S. 11 59.8	+ 14 10.5	0	22 4 17.2	S. 10 34.3	+ 13 47.0
2	21 48 50.6	11 58.1	14 10.1	2	22 4 36.9	10 32.5	13 46.4
4	21 49 10.3	11 56.4	14 9.7	4	22 4 56.6	10 30.7	13 45.8
6	21 49 30.0	11 54.6	14 9.3	6	22 5 16.3	10 28.9	13 45.2
8	21 49 49.8	11 52.8	14 8.9	8	22 5 36.1	10 27.1	13 44.6
10	21 50 9.5	11 51.1	14 8.5	10	22 5 55.8	10 25.3	13 44.0
12	21 50 29.2	11 49.4	14 8.1	12	22 6 15.5	10 23.5	13 43.4
14	21 50 48.9	11 47.6	14 7.7	14	22 6 35.2	10 21.7	13 42.8
16	21 51 8.6	11 45.8	14 7.3	16	22 6 54.9	10 19.9	13 42.1
18	21 51 28.4	11 44.1	14 6.9	18	22 7 14.6	10 18.1	13 41.5
20	21 51 48.1	11 42.3	14 6.5	20	22 7 34.3	10 16.3	13 40.9
22	21 52 7.8	S. 11 40.5	+ 14 6.1	22	22 7 54.0	S. 10 14.5	+ 13 40.2
<b>Saturday 19.</b>				<b>Wednesday 23.</b>			
0	21 52 27.5	S. 11 38.7	+ 14 5.6	0	22 8 13.7	S. 10 12.6	+ 13 39.5
2	21 52 47.2	11 37.0	14 5.2	2	22 8 33.4	10 10.8	13 38.9
4	21 53 6.9	11 35.2	14 4.8	4	22 8 53.1	10 9.0	13 38.3
6	21 53 26.6	11 33.4	14 4.3	6	22 9 12.8	10 7.2	13 37.6
8	21 53 46.4	11 31.6	14 3.8	8	22 9 32.6	10 5.3	13 36.9
10	21 54 6.1	11 29.9	14 3.4	10	22 9 52.3	10 3.5	13 36.3
12	21 54 25.8	11 28.1	14 3.0	12	22 10 12.0	10 1.7	13 35.6
14	21 54 45.5	11 26.3	14 2.5	14	22 10 31.7	9 59.9	13 34.9
16	21 55 5.2	11 24.5	14 2.0	16	22 10 51.4	9 58.0	13 34.2
18	21 55 24.9	11 22.8	14 1.6	18	22 11 11.2	9 56.2	13 33.5
20	21 55 44.6	11 21.0	14 1.1	20	22 11 30.9	9 54.4	13 32.8
22	21 56 4.3	S. 11 19.2	+ 14 0.6	22	22 11 50.6	S. 9 52.5	+ 13 32.1
<b>Sunday 20.</b>				<b>Thursday 24.</b>			
0	21 56 24.0	S. 11 17.4	+ 14 0.1	0	22 12 10.3	S. 9 50.6	+ 13 31.4
2	21 56 43.7	11 15.7	13 59.6	2	22 12 30.0	9 48.8	13 30.7
4	21 57 3.4	11 13.9	13 59.1	4	22 12 49.7	9 47.0	13 30.0
6	21 57 23.1	11 12.1	13 58.6	6	22 13 9.4	9 45.2	13 29.3
8	21 57 42.9	11 10.3	13 58.1	8	22 13 29.2	9 43.3	13 28.6
10	21 58 2.6	11 8.6	13 57.6	10	22 13 48.9	9 41.5	13 27.9
12	21 58 22.3	11 6.8	13 57.1	12	22 14 8.6	9 39.7	13 27.2
14	21 58 42.0	11 5.0	13 56.6	14	22 14 28.3	9 37.8	13 26.5
16	21 59 1.7	11 3.2	13 56.0	16	22 14 48.0	9 35.9	13 25.7
18	21 59 21.5	11 1.4	13 55.5	18	22 15 7.7	9 34.1	13 25.0
20	21 59 41.2	10 59.6	13 55.0	20	22 15 27.4	9 32.3	13 24.3
22	22 0 0.9	S. 10 57.8	+ 13 54.5	22	22 15 47.1	S. 9 30.4	+ 13 23.5

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

FEBRUARY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Friday 25.</b>				<b>Tuesday 29.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	22 16 6.8	S. 9 28.5	+ 13 22.7	0	22 31 53.0	S. 7 58.8	+ 12 42.3
2	22 16 26.5	9 26.7	13 22.0	2	22 32 12.7	7 56.9	12 41.4
4	22 16 46.2	9 24.9	13 21.3	4	22 32 32.4	7 55.0	12 40.5
6	22 17 5.9	9 23.0	13 20.5	6	22 32 52.1	7 53.1	12 39.6
8	22 17 25.7	9 21.1	13 19.7	8	22 33 11.9	7 51.2	12 38.6
10	22 17 45.4	9 19.3	13 19.0	10	22 33 31.6	7 49.3	12 37.7
12	22 18 5.1	9 17.5	13 18.2	12	22 33 51.3	7 47.4	12 36.8
14	22 18 24.8	9 15.6	13 17.4	14	22 34 11.0	7 45.5	12 35.8
16	22 18 44.5	9 13.7	13 16.6	16	22 34 30.7	7 43.6	12 34.8
18	22 19 4.3	9 11.9	13 15.8	18	22 34 50.5	7 41.7	12 33.9
20	22 19 24.0	9 10.1	13 15.0	20	22 35 10.2	7 39.8	12 32.9
22	22 19 43.7	S. 9 8.2	+ 13 14.2	22	22 35 29.9	7 37.9	12 31.9
<b>Saturday 26.</b>				<b>Tuesday 29.</b>			
0	22 20 3.4	S. 9 6.3	+ 13 13.4	0	22 35 49.6	S. 7 36.0	+ 12 30.9
2	22 20 23.1	9 4.5	13 12.6				
4	22 20 42.8	9 2.7	13 11.8				
6	22 21 2.5	9 0.8	13 11.0				
8	22 21 22.3	8 58.9	13 10.2				
10	22 21 42.0	8 57.1	13 9.4				
12	22 22 1.7	8 55.2	13 8.6				
14	22 22 21.4	8 53.3	13 7.8				
16	22 22 41.1	8 51.4	13 6.9				
18	22 23 0.8	8 49.6	13 6.1				
20	22 23 20.5	8 47.7	13 5.3				
22	22 23 40.2	S. 8 45.8	+ 13 4.5				
<b>Sunday 27.</b>				<b>Monday 28.</b>			
0	22 23 59.9	S. 8 43.9	+ 13 3.6	0	22 27 56.5	S. 8 21.4	+ 12 53.2
2	22 24 19.6	8 42.1	13 2.8	2	22 28 16.2	8 19.6	12 52.3
4	22 24 39.3	8 40.2	13 2.0	4	22 28 35.9	8 17.7	12 51.4
6	22 24 59.0	8 38.3	13 1.1	6	22 28 55.6	8 15.8	12 50.5
8	22 25 18.8	8 36.4	13 0.2	8	22 29 15.4	8 13.9	12 49.6
10	22 25 38.5	8 34.6	12 59.4	10	22 29 35.1	8 12.1	12 48.7
12	22 25 58.2	8 32.7	12 58.5	12	22 29 54.8	8 10.2	12 47.8
14	22 26 17.9	8 30.8	12 57.6	14	22 30 14.5	8 8.3	12 46.9
16	22 26 37.6	8 28.9	12 56.7	16	22 30 34.2	8 6.4	12 46.0
18	22 26 57.4	8 27.1	12 55.9	18	22 30 53.9	8 4.5	12 45.1
20	22 27 17.1	8 25.2	12 55.0	20	22 31 13.6	8 2.6	12 44.2
22	22 27 36.8	S. 8 23.3	+ 12 54.1	22	22 31 33.3	S. 8 0.7	+ 12 43.3

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



MARCH.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Wednesday 1.</b>				<b>Sunday 5.</b>			
h	h	m	s	h	h	m	s
0	22	35	49.6	0	22	51	35.8
2	22	36	9.3	2	22	51	55.5
4	22	36	29.0	4	22	52	15.2
6	22	36	48.7	6	22	52	34.9
8	22	37	8.5	8	22	52	54.7
10	22	37	28.2	10	22	53	14.4
12	22	37	47.9	12	22	53	34.1
14	22	38	7.6	14	22	53	53.8
16	22	38	27.3	16	22	54	13.5
18	22	38	47.0	18	22	54	33.3
20	22	39	6.7	20	22	54	53.0
22	22	39	26.4	22	22	55	12.7
<b>Thursday 2.</b>				<b>Monday 6.</b>			
0	22	39	46.1	0	22	55	32.4
2	22	40	5.8	2	22	55	52.1
4	22	40	25.5	4	22	56	11.8
6	22	40	45.2	6	22	56	31.5
8	22	41	5.0	8	22	56	51.3
10	22	41	24.7	10	22	57	11.0
12	22	41	44.4	12	22	57	30.7
14	22	42	4.1	14	22	57	50.4
16	22	42	23.8	16	22	58	10.1
18	22	42	43.6	18	22	58	29.8
20	22	43	3.3	20	22	58	49.5
22	22	43	23.0	22	22	59	9.2
<b>Friday 3.</b>				<b>Tuesday 7.</b>			
0	22	43	42.7	0	22	59	28.9
2	22	44	2.4	2	22	59	48.6
4	22	44	22.1	4	23	0	8.3
6	22	44	41.8	6	23	0	28.0
8	22	45	1.6	8	23	0	47.8
10	22	45	21.3	10	23	1	7.5
12	22	45	41.0	12	23	1	27.2
14	22	46	0.7	14	23	1	46.9
16	22	46	20.4	16	23	2	6.6
18	22	46	40.1	18	23	2	26.4
20	22	46	59.8	20	23	2	46.1
22	22	47	19.5	22	23	3	5.8
<b>Saturday 4.</b>				<b>Wednesday 8.</b>			
0	22	47	39.2	0	23	3	25.5
2	22	47	58.9	2	23	3	45.2
4	22	48	18.6	4	23	4	4.9
6	22	48	38.3	6	23	4	24.6
8	22	48	58.1	8	23	4	44.4
10	22	49	17.8	10	23	5	4.1
12	22	49	37.5	12	23	5	23.8
14	22	49	57.2	14	23	5	43.5
16	22	50	16.9	16	23	6	3.2
18	22	50	36.7	18	23	6	22.9
20	22	50	56.4	20	23	6	42.6
22	22	51	16.1	22	23	7	2.3

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

MARCH.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Thursday 9.</b>				<b>Monday 13.</b>			
h	h	m	s	h	h	m	s
0	23	7	22.0	0	23	23	8.2
2	23	7	41.7	2	23	23	27.9
4	23	8	1.4	4	23	23	47.6
6	23	8	21.1	6	23	24	7.3
8	23	8	40.9	8	23	24	27.1
10	23	9	0.6	10	23	24	46.8
12	23	9	20.3	12	23	25	6.5
14	23	9	40.0	14	23	25	26.2
16	23	9	59.7	16	23	25	45.9
18	23	10	19.5	18	23	26	5.7
20	23	10	39.2	20	23	26	25.4
22	23	10	58.9	22	23	26	45.1
<b>Friday 10.</b>				<b>Tuesday 14.</b>			
0	23	11	18.6	0	23	27	4.8
2	23	11	38.3	2	23	27	24.5
4	23	11	58.0	4	23	27	44.2
6	23	12	17.7	6	23	28	3.9
8	23	12	37.5	8	23	28	23.7
10	23	12	57.2	10	23	28	43.4
12	23	13	16.9	12	23	29	3.1
14	23	13	36.6	14	23	29	22.8
16	23	13	56.3	16	23	29	42.5
18	23	14	16.0	18	23	30	2.2
20	23	14	35.7	20	23	30	21.9
22	23	14	55.4	22	23	30	41.6
<b>Saturday 11.</b>				<b>Wednesday 15.</b>			
0	23	15	15.1	0	23	31	1.3
2	23	15	34.8	2	23	31	21.0
4	23	15	54.5	4	23	31	40.7
6	23	16	14.2	6	23	32	0.4
8	23	16	34.0	8	23	32	20.2
10	23	16	53.7	10	23	32	39.9
12	23	17	13.4	12	23	32	59.6
14	23	17	33.1	14	23	33	19.3
16	23	17	52.8	16	23	33	39.0
18	23	18	12.6	18	23	33	58.8
20	23	18	32.3	20	23	34	18.5
22	23	18	52.0	22	23	34	38.2
<b>Sunday 12.</b>				<b>Thursday 16.</b>			
0	23	19	11.7	0	23	34	57.9
2	23	19	31.4	2	23	35	17.6
4	23	19	51.1	4	23	35	37.3
6	23	20	10.8	6	23	35	57.0
8	23	20	30.6	8	23	36	16.8
10	23	20	50.3	10	23	36	36.5
12	23	21	10.0	12	23	36	56.2
14	23	21	29.7	14	23	37	15.9
16	23	21	49.4	16	23	37	35.6
18	23	22	9.1	18	23	37	55.3
20	23	22	28.8	20	23	38	15.0
22	23	22	48.5	22	23	38	34.7

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



MARCH.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Friday 17.</b>				<b>Tuesday 21.</b>			
h	h	m	s	h	h	m	s
0	23	38	54.4	0	23	54	40.7
2	23	39	14.1	2	23	55	0.4
4	23	39	33.8	4	23	55	20.1
6	23	39	53.5	6	23	55	39.8
8	23	40	13.3	8	23	55	59.6
10	23	40	33.0	10	23	56	19.3
12	23	40	52.7	12	23	56	39.0
14	23	41	12.4	14	23	56	58.7
16	23	41	32.1	16	23	57	18.4
18	23	41	51.9	18	23	57	38.1
20	23	42	11.6	20	23	57	57.8
22	23	42	31.3	22	23	58	17.5
<b>Saturday 18.</b>				<b>Wednesday 22.</b>			
0	23	42	51.0	0	23	58	37.2
2	23	43	10.7	2	23	58	56.9
4	23	43	30.4	4	23	59	16.6
6	23	43	50.1	6	23	59	36.3
8	23	44	9.9	8	23	59	56.1
10	23	44	29.6	10	0	0	15.8
12	23	44	49.3	12	0	0	35.5
14	23	45	9.0	14	0	0	55.2
16	23	45	28.7	16	0	1	14.9
18	23	45	48.4	18	0	1	34.7
20	23	46	8.1	20	0	1	54.4
22	23	46	27.8	22	0	2	14.1
<b>Sunday 19.</b>				<b>Thursday 23.</b>			
0	23	46	47.5	0	0	2	33.8
2	23	47	7.2	2	0	2	53.5
4	23	47	26.9	4	0	3	13.2
6	23	47	46.6	6	0	3	32.9
8	23	48	6.4	8	0	3	52.7
10	23	48	26.1	10	0	4	12.4
12	23	48	45.8	12	0	4	32.1
14	23	49	5.5	14	0	4	51.8
16	23	49	25.2	16	0	5	11.5
18	23	49	45.0	18	0	5	31.2
20	23	50	4.7	20	0	5	50.9
22	23	50	24.4	22	0	6	10.6
<b>Monday 20.</b>				<b>Friday 24.</b>			
0	23	50	44.1	0	0	6	30.3
2	23	51	3.8	2	0	6	50.0
4	23	51	23.5	4	0	7	9.7
6	23	51	43.2	6	0	7	29.4
8	23	52	3.0	8	0	7	49.2
10	23	52	22.7	10	0	8	8.9
12	23	52	42.4	12	0	8	28.6
14	23	53	2.1	14	0	8	48.3
16	23	53	21.8	16	0	9	8.0
18	23	53	41.6	18	0	9	27.8
20	23	54	1.3	20	0	9	47.5
22	23	54	21.0	22	0	10	7.2

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

MARCH.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Saturday 25.</b>				<b>Wednesday 29.</b>			
h	h	m	s	h	h	m	s
0	0	10	26.9	0	0	26	13.1
2	0	10	46.6	2	0	26	32.8
4	0	11	6.3	4	0	26	52.5
6	0	11	26.0	6	0	27	12.2
8	0	11	45.8	8	0	27	32.0
10	0	12	5.5	10	0	27	51.7
12	0	12	25.2	12	0	28	11.4
14	0	12	44.9	14	0	28	31.1
16	0	13	4.6	16	0	28	50.8
18	0	13	24.3	18	0	29	10.5
20	0	13	44.0	20	0	29	30.2
22	0	14	3.7	22	0	29	49.9
<b>Sunday 26.</b>				<b>Thursday 30.</b>			
0	0	14	23.4	0	0	30	9.6
2	0	14	43.1	2	0	30	29.3
4	0	15	2.8	4	0	30	49.0
6	0	15	22.5	6	0	31	8.7
8	0	15	42.3	8	0	31	28.5
10	0	16	2.0	10	0	31	48.2
12	0	16	21.7	12	0	32	7.9
14	0	16	41.4	14	0	32	27.6
16	0	17	1.1	16	0	32	47.3
18	0	17	20.9	18	0	33	7.1
20	0	17	40.6	20	0	33	26.8
22	0	18	0.3	22	0	33	46.5
<b>Monday 27.</b>				<b>Friday 31.</b>			
0	0	18	20.0	0	0	34	6.2
2	0	18	39.7	2	0	34	25.9
4	0	18	59.4	4	0	34	45.6
6	0	19	19.1	6	0	35	5.3
8	0	19	38.9	8	0	35	25.1
10	0	19	58.6	10	0	35	44.8
12	0	20	18.3	12	0	36	4.5
14	0	20	38.0	14	0	36	24.2
16	0	20	57.7	16	0	36	43.9
18	0	21	17.4	18	0	37	3.6
20	0	21	37.1	20	0	37	23.3
22	0	21	56.8	22	0	37	43.0
<b>Tuesday 28.</b>				<b>Friday 31. (cont.)</b>			
0	0	22	16.5	24	0	38	2.7
2	0	22	36.2				
4	0	22	55.9				
6	0	23	15.6				
8	0	23	35.4				
10	0	23	55.1				
12	0	24	14.8				
14	0	24	34.5				
16	0	24	54.2				
18	0	25	14.0				
20	0	25	33.7				
22	0	25	53.4				

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



APRIL.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Saturday 1.</b>				<b>Wednesday 5.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	o 38 27	N. 4 31.4	+ 3 58.9	0	o 53 49.0	N. 6 3.3	+ 2 48.0
2	o 38 22.4	4 33.3	3 57.4	2	o 54 8.7	6 5.2	2 46.5
4	o 38 42.1	4 35.2	3 55.9	4	o 54 28.4	6 7.1	2 45.0
6	o 39 1.8	4 37.1	3 54.4	6	o 54 48.1	6 9.0	2 43.6
8	o 39 21.6	4 39.1	3 52.9	8	o 55 7.9	6 10.9	2 42.2
10	o 39 41.3	4 41.0	3 51.4	10	o 55 27.6	6 12.8	2 40.7
12	o 40 1.0	4 42.9	3 49.9	12	o 55 47.3	6 14.7	2 39.2
14	o 40 20.7	4 44.8	3 48.4	14	o 56 7.0	6 16.6	2 37.8
16	o 40 40.4	4 46.8	3 46.9	16	o 56 26.7	6 18.5	2 36.4
18	o 41 0.2	4 48.7	3 45.4	18	o 56 46.4	6 20.4	2 34.9
20	o 41 19.9	4 50.6	3 43.9	20	o 57 6.1	6 22.3	2 33.5
22	o 41 39.6	N. 4 52.5	+ 3 42.4	22	o 57 25.8	N. 6 24.2	+ 2 32.1
<b>Sunday 2.</b>				<b>Thursday 6.</b>			
0	o 41 59.3	N. 4 54.5	+ 3 41.0	0	o 57 45.5	N. 6 26.1	+ 2 30.7
2	o 42 19.0	4 56.4	3 39.5	2	o 58 5.2	6 28.0	2 29.2
4	o 42 38.7	4 58.3	3 38.0	4	o 58 24.9	6 29.9	2 27.7
6	o 42 58.4	5 0.2	3 36.5	6	o 58 44.6	6 31.8	2 26.3
8	o 43 18.2	5 2.2	3 35.0	8	o 59 4.4	6 33.7	2 24.9
10	o 43 37.9	5 4.1	3 33.5	10	o 59 24.1	6 35.6	2 23.4
12	o 43 57.6	5 6.0	3 32.0	12	o 59 43.8	6 37.5	2 22.0
14	o 44 17.3	5 7.9	3 30.5	14	o 59 3.5	6 39.4	2 20.6
16	o 44 37.0	5 9.9	3 29.1	16	o 59 23.2	6 41.2	2 19.2
18	o 44 56.7	5 11.8	3 27.6	18	o 59 43.0	6 43.1	2 17.7
20	o 45 16.4	5 13.7	3 26.1	20	o 59 2.7	6 45.0	2 16.3
22	o 45 36.1	N. 5 15.6	+ 3 24.6	22	o 59 22.4	N. 6 46.9	+ 2 14.9
<b>Monday 3.</b>				<b>Friday 7.</b>			
0	o 45 55.8	N. 5 17.5	+ 3 23.2	0	o 59 42.1	N. 6 48.7	+ 2 13.5
2	o 46 15.5	5 19.5	3 21.7	2	o 59 1.8	6 50.6	2 12.0
4	o 46 35.2	5 21.4	3 20.2	4	o 59 21.5	6 52.5	2 10.6
6	o 46 54.9	5 23.3	3 18.7	6	o 59 41.2	6 54.4	2 9.2
8	o 47 14.7	5 25.2	3 17.3	8	o 59 3.0	6 56.2	2 7.8
10	o 47 34.4	5 27.2	3 15.8	10	o 59 22.7	6 58.1	2 6.4
12	o 47 54.1	5 29.1	3 14.3	12	o 59 42.4	7 0.0	2 5.0
14	o 48 13.8	5 31.0	3 12.8	14	o 59 2.1	7 1.9	2 3.6
16	o 48 33.5	5 32.9	3 11.4	16	o 59 21.8	7 3.7	2 2.2
18	o 48 53.3	5 34.8	3 9.9	18	o 59 41.5	7 5.6	2 0.8
20	o 49 13.0	5 36.7	3 8.4	20	o 59 21.2	7 7.5	1 59.4
22	o 49 32.7	N. 5 38.6	+ 3 6.9	22	o 59 40.9	N. 7 9.4	+ 1 58.0
<b>Tuesday 4.</b>				<b>Saturday 8.</b>			
0	o 49 52.4	N. 5 40.5	+ 3 5.5	0	o 59 38.6	N. 7 11.2	+ 1 56.6
2	o 50 12.1	5 42.4	3 4.0	2	o 59 58.3	7 13.1	1 55.2
4	o 50 31.8	5 44.3	3 2.5	4	o 59 18.0	7 15.0	1 53.8
6	o 50 51.5	5 46.2	3 1.0	6	o 59 37.7	7 16.9	1 52.4
8	o 51 11.3	5 48.1	2 59.6	8	o 59 57.5	7 18.7	1 51.0
10	o 51 31.0	5 50.0	2 58.1	10	o 59 17.2	7 20.6	1 49.6
12	o 51 50.7	5 51.9	2 56.6	12	o 59 36.9	7 22.5	1 48.2
14	o 52 10.4	5 53.8	2 55.2	14	o 59 56.6	7 24.4	1 46.8
16	o 52 30.1	5 55.7	2 53.8	16	o 59 16.3	7 26.2	1 45.4
18	o 52 49.9	5 57.6	2 52.3	18	o 59 36.1	7 28.1	1 44.0
20	o 53 9.6	5 59.5	2 50.8	20	o 59 55.8	7 30.0	1 42.6
22	o 53 29.3	N. 6 1.4	+ 2 49.4	22	o 59 15.5	N. 7 31.8	+ 1 41.2

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

APRIL.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Sunday 9.</b>				<b>Thursday 13.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	1 9 35.2	N. 7 33.6	+ 1 39.9	0	1 25 21.4	N. 9 1.7	+ 0 35.6
2	1 9 54.9	7 35.5	1 38.5	2	1 25 41.1	9 3.6	0 34.3
4	1 10 14.6	7 37.4	1 37.1	4	1 26 0.8	9 5.4	0 33.0
6	1 10 34.3	7 39.2	1 35.7	6	1 26 20.5	9 7.2	0 31.7
8	1 10 54.1	7 41.0	1 34.4	8	1 26 40.3	9 9.0	0 30.5
10	1 11 13.8	7 42.9	1 33.0	10	1 27 0.0	9 10.8	0 29.2
12	1 11 33.5	7 44.8	1 31.6	12	1 27 19.7	9 12.6	0 27.9
14	1 11 53.2	7 46.6	1 30.2	14	1 27 39.4	9 14.4	0 26.6
16	1 12 12.9	7 48.4	1 28.9	16	1 27 59.1	9 16.2	0 25.4
18	1 12 32.6	7 50.3	1 27.5	18	1 28 18.8	9 18.0	0 24.1
20	1 12 52.3	7 52.2	1 26.1	20	1 28 38.5	9 19.8	0 22.8
22	1 13 12.0	N. 7 54.0	+ 1 24.7	22	1 28 58.2	N. 9 21.6	+ 0 21.5
<b>Monday 10.</b>				<b>Friday 14.</b>			
0	1 13 31.7	N. 7 55.8	+ 1 23.4	0	1 29 17.9	N. 9 23.4	+ 0 20.3
2	1 13 51.4	7 57.7	1 22.0	2	1 29 37.6	9 25.2	0 19.0
4	1 14 11.1	7 59.6	1 20.6	4	1 29 57.3	9 27.0	0 17.7
6	1 14 30.8	8 1.4	1 19.3	6	1 30 17.0	9 28.8	0 16.4
8	1 14 50.6	8 3.2	1 18.0	8	1 30 36.8	9 30.6	0 15.2
10	1 15 10.3	8 5.1	1 16.6	10	1 30 56.5	9 32.4	0 13.9
12	1 15 30.0	8 7.0	1 15.2	12	1 31 16.2	9 34.2	0 12.6
14	1 15 49.7	8 8.8	1 13.9	14	1 31 35.9	9 36.0	0 11.4
16	1 16 9.4	8 10.6	1 12.6	16	1 31 55.6	9 37.8	0 10.2
18	1 16 29.2	8 12.5	1 11.2	18	1 32 15.4	9 39.6	0 8.9
20	1 16 48.9	8 14.3	1 9.8	20	1 32 35.1	9 41.4	0 7.6
22	1 17 8.6	N. 8 16.1	+ 1 8.5	22	1 32 54.8	N. 9 43.2	+ 0 6.4
<b>Tuesday 11.</b>				<b>Saturday 15.</b>			
0	1 17 28.3	N. 8 17.9	+ 1 7.2	0	1 33 14.5	N. 9 44.9	+ 0 5.2
2	1 17 48.0	8 19.8	1 5.8	2	1 33 34.2	9 46.7	0 3.9
4	1 18 7.7	8 21.7	1 4.5	4	1 33 53.9	9 48.5	0 2.7
6	1 18 27.4	8 23.5	1 3.2	6	1 34 13.6	9 50.3	0 1.5
8	1 18 47.2	8 25.3	1 1.9	8	1 34 33.4	9 52.1	+ 0 0.3
10	1 19 6.9	8 27.2	1 0.5	10	1 34 53.1	9 53.9	- 0 1.0
12	1 19 26.6	8 29.0	0 59.2	12	1 35 12.8	9 55.7	0 2.2
14	1 19 46.3	8 30.8	0 57.9	14	1 35 32.5	9 57.5	0 3.4
16	1 20 6.0	8 32.6	0 56.6	16	1 35 52.2	9 59.2	0 4.6
18	1 20 25.7	8 34.5	0 55.2	18	1 36 11.9	10 1.0	0 5.9
20	1 20 45.4	8 36.3	0 53.9	20	1 36 31.6	10 2.8	0 7.1
22	1 21 5.1	N. 8 38.1	+ 0 52.6	22	1 36 51.3	N. 10 4.6	- 0 8.3
<b>Wednesday 12.</b>				<b>Sunday 16.</b>			
0	1 21 24.8	N. 8 39.9	+ 0 51.3	0	1 37 11.0	N. 10 6.3	- 0 9.5
2	1 21 44.5	8 41.8	0 49.9	2	1 37 30.7	10 8.1	0 10.7
4	1 22 4.2	8 43.6	0 48.6	4	1 37 50.4	10 9.9	0 11.9
6	1 22 23.9	8 45.4	0 47.3	6	1 38 10.1	10 11.7	0 13.1
8	1 22 43.7	8 47.2	0 46.0	8	1 38 29.9	10 13.4	0 14.3
10	1 23 3.4	8 49.1	0 44.7	10	1 38 49.6	10 15.2	0 15.5
12	1 23 23.1	8 50.9	0 43.4	12	1 39 9.3	10 17.0	0 16.7
14	1 23 42.8	8 52.7	0 42.1	14	1 39 29.0	10 18.8	0 17.9
16	1 24 2.5	8 54.5	0 40.8	16	1 39 48.7	10 20.5	0 19.1
18	1 24 22.3	8 56.3	0 39.5	18	1 40 8.5	10 22.3	0 20.3
20	1 24 42.0	8 58.1	0 38.2	20	1 40 28.2	10 24.1	0 21.5
22	1 25 1.7	N. 8 59.9	+ 0 36.9	22	1 40 47.9	N. 10 25.8	- 0 22.7

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



APRIL.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Monday 17.</b>				<b>Friday 21.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	I 41 7.6	N. 10 27.5	- 0 23.8	0	I 56 53.8	N. 11 50.5	- I 17.2
2	I 41 27.3	10 29.3	0 25.0	2	I 57 13.5	11 52.2	I 18.3
4	I 41 47.0	10 31.1	0 26.2	4	I 57 33.2	11 53.9	I 19.3
6	I 42 6.7	10 32.8	0 27.4	6	I 57 52.9	11 55.6	I 20.3
8	I 42 26.5	10 34.5	0 28.5	8	I 58 12.7	11 57.3	I 21.3
10	I 42 46.2	10 36.3	0 29.7	10	I 58 32.4	11 59.0	I 22.4
12	I 43 5.9	10 38.1	0 30.9	12	I 58 52.1	12 0.7	I 23.4
14	I 43 25.6	10 39.8	0 32.0	14	I 59 11.8	12 2.4	I 24.4
16	I 43 45.3	10 41.5	0 33.1	16	I 59 31.5	12 4.1	I 25.4
18	I 44 5.1	10 43.3	0 34.3	18	I 59 51.3	12 5.8	I 26.4
20	I 44 24.8	10 45.1	0 35.5	20	2 0 11.0	12 7.5	I 27.4
22	I 44 44.5	N. 10 46.8	- 0 36.6	22	2 0 30.7	N. 12 9.2	- I 28.4
<b>Tuesday 18.</b>				<b>Saturday 22.</b>			
0	I 45 4.2	N. 10 48.5	- 0 37.7	0	2 0 50.4	N. 12 10.8	- I 29.4
2	I 45 23.9	10 50.3	0 38.9	2	2 1 10.1	12 12.5	I 30.4
4	I 45 43.6	10 52.1	0 40.1	4	2 1 29.8	12 14.2	I 31.4
6	I 46 3.3	10 53.8	0 41.2	6	2 1 49.5	12 15.9	I 32.4
8	I 46 23.1	10 55.5	0 42.3	8	2 2 9.3	12 17.5	I 33.4
10	I 46 42.8	10 57.3	0 43.5	10	2 2 29.0	12 19.2	I 34.4
12	I 47 2.5	10 59.1	0 44.6	12	2 2 48.7	12 20.9	I 35.4
14	I 47 22.2	11 0.8	0 45.7	14	2 3 8.4	12 22.6	I 36.4
16	I 47 41.9	11 2.5	0 46.8	16	2 3 28.1	12 24.2	I 37.3
18	I 48 1.6	11 4.3	0 48.0	18	2 3 47.8	12 25.9	I 38.3
20	I 48 21.3	11 6.0	0 49.1	20	2 4 7.5	12 27.6	I 39.3
22	I 48 41.0	N. 11 7.7	- 0 50.2	22	2 4 27.2	N. 12 29.3	- I 40.3
<b>Wednesday 19.</b>				<b>Sunday 23.</b>			
0	I 49 0.7	N. 11 9.4	- 0 51.3	0	2 4 46.9	N. 12 30.9	- I 41.2
2	I 49 20.4	11 11.2	0 52.4	2	2 5 6.6	12 32.6	I 42.2
4	I 49 40.1	11 12.9	0 53.5	4	2 5 26.3	12 34.3	I 43.2
6	I 49 59.8	11 14.6	0 54.6	6	2 5 46.0	12 35.9	I 44.1
8	I 50 19.6	11 16.3	0 55.7	8	2 6 5.8	12 37.5	I 45.0
10	I 50 39.3	11 18.1	0 56.8	10	2 6 25.5	12 39.2	I 46.0
12	I 50 59.0	11 19.8	0 57.9	12	2 6 45.2	12 40.9	I 47.0
14	I 51 18.7	11 21.5	0 59.0	14	2 7 4.9	12 42.5	I 47.9
16	I 51 38.4	11 23.2	I 0.1	16	2 7 24.6	12 44.1	I 48.8
18	I 51 58.2	11 24.9	I 1.2	18	2 7 44.4	12 45.8	I 49.8
20	I 52 17.9	11 26.6	I 2.3	20	2 8 4.1	12 47.5	I 50.7
22	I 52 37.6	N. 11 28.3	- I 3.4	22	2 8 23.8	N. 12 49.1	- I 51.6
<b>Thursday 20.</b>				<b>Monday 24.</b>			
0	I 52 57.3	N. 11 30.0	- I 4.4	0	2 8 43.5	N. 12 50.7	- I 52.5
2	I 53 17.0	11 31.8	I 5.5	2	2 9 3.2	12 52.4	I 53.5
4	I 53 36.7	11 33.5	I 6.6	4	2 9 22.9	12 54.1	I 54.4
6	I 53 56.4	11 35.2	I 7.7	6	2 9 42.6	12 55.7	I 55.3
8	I 54 16.2	11 36.9	I 8.7	8	2 10 2.4	12 57.3	I 56.2
10	I 54 35.9	11 38.6	I 9.8	10	2 10 22.1	12 59.0	I 57.1
12	I 54 55.6	11 40.3	I 10.9	12	2 10 41.8	13 0.7	I 58.0
14	I 55 15.3	11 42.0	I 12.0	14	2 11 1.5	13 2.3	I 58.9
16	I 55 35.0	11 43.7	I 13.0	16	2 11 21.2	13 3.9	I 59.8
18	I 55 54.7	11 45.4	I 14.1	18	2 11 40.9	13 5.6	2 0.7
20	I 56 14.4	11 47.1	I 15.2	20	2 12 0.6	13 7.2	2 1.6
22	I 56 34.1	N. 11 48.8	- I 16.2	22	2 12 20.3	N. 13 8.8	- 2 2.5

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

APRIL.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Tuesday 25.</b>				<b>Saturday 29.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	2 12 40.0	N. 13 10.4	- 2 3.4	0	2 28 26.3	N. 14 26.9	- 2 41.5
2	2 12 59.7	13 12.1	2 4.3	2	2 28 46.0	14 28.5	2 42.2
4	2 13 19.4	13 13.7	2 5.2	4	2 29 5.7	14 30.1	2 42.9
6	2 13 39.1	13 15.3	2 6.1	6	2 29 25.4	14 31.6	2 43.6
8	2 13 58.9	13 16.9	2 6.9	8	2 29 45.2	14 33.1	2 44.3
10	2 14 18.6	13 18.6	2 7.8	10	2 30 4.9	14 34.7	2 45.0
12	2 14 38.3	13 20.2	2 8.7	12	2 30 24.6	14 36.3	2 45.7
14	2 14 58.0	13 21.8	2 9.5	14	2 30 44.3	14 37.8	2 46.4
16	2 15 17.7	13 23.4	2 10.3	16	2 31 4.0	14 39.3	2 47.1
18	2 15 37.5	13 25.1	2 11.2	18	2 31 23.7	14 40.9	2 47.8
20	2 15 57.2	13 26.7	2 12.1	20	2 31 43.4	14 42.4	2 48.5
22	2 16 16.9	N. 13 28.3	- 2 12.9	22	2 32 3.1	N. 14 43.9	- 2 49.2
<b>Wednesday 26.</b>				<b>Sunday 30.</b>			
0	2 16 36.6	N. 13 29.9	- 2 13.7	0	2 32 22.8	N. 14 45.4	- 2 49.8
2	2 16 56.3	13 31.5	2 14.6	2	2 32 42.5	14 47.0	2 50.5
4	2 17 16.0	13 33.1	2 15.4	4	2 33 2.2	14 48.5	2 51.2
6	2 17 35.7	13 34.7	2 16.2	6	2 33 21.9	14 50.0	2 51.8
8	2 17 55.5	13 36.3	2 17.0	8	2 33 41.7	14 51.5	2 52.4
10	2 18 15.2	13 37.9	2 17.9	10	2 34 1.4	14 53.1	2 53.1
12	2 18 34.9	13 39.5	2 18.7	12	2 34 21.1	14 54.6	2 53.8
14	2 18 54.6	13 41.1	2 19.5	14	2 34 40.8	14 56.1	2 54.4
16	2 19 14.3	13 42.7	2 20.3	16	2 35 0.5	14 57.6	2 55.0
18	2 19 34.0	13 44.3	2 21.1	18	2 35 20.3	14 59.1	2 55.7
20	2 19 53.7	13 45.9	2 21.9	20	2 35 40.0	15 0.7	2 56.3
22	2 20 13.4	N. 13 47.5	- 2 22.7	22	2 35 59.7	15 2.2	2 56.9
<b>Thursday 27.</b>				<b>Friday 28.</b>			
0	2 20 33.1	N. 13 49.1	- 2 23.5	0	2 24 29.7	N. 14 8.1	- 2 32.8
2	2 20 52.8	13 50.7	2 24.3	2	2 24 49.4	14 9.7	2 33.6
4	2 21 12.5	13 52.3	2 25.1	4	2 25 9.1	14 11.3	2 34.3
6	2 21 32.2	13 53.9	2 25.9	6	2 25 28.8	14 12.9	2 35.0
8	2 21 52.0	13 55.5	2 26.6	8	2 25 48.6	14 14.4	2 35.7
10	2 22 11.7	13 57.1	2 27.4	10	2 26 8.3	14 16.0	2 36.5
12	2 22 31.4	13 58.7	2 28.2	12	2 26 28.0	14 17.6	2 37.2
14	2 22 51.1	14 0.3	2 29.0	14	2 26 47.7	14 19.2	2 37.9
16	2 23 10.8	14 1.8	2 29.7	16	2 27 7.4	14 20.7	2 38.6
18	2 23 30.6	14 3.4	2 30.5	18	2 27 27.2	14 22.3	2 39.4
20	2 23 50.3	14 5.0	2 31.3	20	2 27 46.9	14 23.9	2 40.1
22	2 24 10.0	N. 14 6.6	- 2 32.1	22	2 28 6.6	N. 14 25.4	- 2 40.8

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



MAY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Monday 1.</b>				<b>Friday 5.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	2 36 19.4	N. 15 37	- 2 57.5	0	2 52 5.6	N. 16 14.4	- 3 22.8
2	2 36 39.1	15 53	2 58.1	2	2 52 25.3	16 15.9	3 23.3
4	2 36 58.8	15 68	2 58.7	4	2 52 45.0	16 17.3	3 23.7
6	2 37 18.5	15 83	2 59.3	6	2 53 4.7	16 18.7	3 24.1
8	2 37 38.3	15 98	2 59.9	8	2 53 24.5	16 20.1	3 24.5
10	2 37 58.0	15 113	3 0.5	10	2 53 44.2	16 21.6	3 25.0
12	2 38 17.7	15 128	3 1.1	12	2 54 3.9	16 23.0	3 25.4
14	2 38 37.4	15 143	3 1.7	14	2 54 23.6	16 24.4	3 25.8
16	2 38 57.1	15 158	3 2.3	16	2 54 43.3	16 25.8	3 26.2
18	2 39 16.8	15 173	3 2.9	18	2 55 3.0	16 27.2	3 26.6
20	2 39 36.5	15 188	3 3.5	20	2 55 22.7	16 28.6	3 27.0
22	2 39 56.2	N. 15 203	- 3 4.1	22	2 55 42.4	N. 16 30.0	- 3 27.4
<b>Tuesday 2.</b>				<b>Saturday 6.</b>			
0	2 40 15.9	N. 15 21.8	- 3 4.6	0	2 56 2.1	N. 16 31.4	- 3 27.8
2	2 40 35.6	15 23.3	3 5.2	2	2 56 21.8	16 32.8	3 28.2
4	2 40 55.3	15 24.8	3 5.8	4	2 56 41.5	16 34.2	3 28.6
6	2 41 15.0	15 26.3	3 6.3	6	2 57 1.2	16 35.6	3 29.0
8	2 41 34.8	15 27.8	3 6.8	8	2 57 21.0	16 37.0	3 29.3
10	2 41 54.5	15 29.3	3 7.4	10	2 57 40.7	16 38.4	3 29.7
12	2 42 14.2	15 30.8	3 8.0	12	2 58 0.4	16 39.8	3 30.1
14	2 42 33.9	15 32.3	3 8.5	14	2 58 20.1	16 41.2	3 30.5
16	2 42 53.6	15 33.7	3 9.0	16	2 58 39.8	16 42.6	3 30.8
18	2 43 13.4	15 35.2	3 9.6	18	2 58 59.6	16 44.0	3 31.2
20	2 43 33.1	15 36.7	3 10.2	20	2 59 19.3	16 45.4	3 31.6
22	2 43 52.8	N. 15 38.2	- 3 10.7	22	2 59 39.0	N. 16 46.8	- 3 31.9
<b>Wednesday 3.</b>				<b>Sunday 7.</b>			
0	2 44 12.5	N. 15 39.6	- 3 11.2	0	2 59 58.7	N. 16 48.1	- 3 32.2
2	2 44 32.2	15 41.1	3 11.8	2	3 0 18.4	16 49.5	3 32.6
4	2 44 51.9	15 42.6	3 12.3	4	3 0 38.1	16 50.9	3 32.9
6	2 45 11.6	15 44.1	3 12.8	6	3 0 57.8	16 52.3	3 33.2
8	2 45 31.4	15 45.5	3 13.3	8	3 1 17.6	16 53.6	3 33.5
10	2 45 51.1	15 47.0	3 13.8	10	3 1 37.3	16 55.0	3 33.9
12	2 46 10.8	15 48.5	3 14.3	12	3 1 57.0	16 56.4	3 34.2
14	2 46 30.5	15 49.9	3 14.8	14	3 2 16.7	16 57.8	3 34.5
16	2 46 50.2	15 51.3	3 15.3	16	3 2 36.4	16 59.1	3 34.8
18	2 47 9.9	15 52.8	3 15.8	18	3 2 56.2	17 0.5	3 35.1
20	2 47 29.6	15 54.3	3 16.3	20	3 3 15.9	17 1.9	3 35.4
22	2 47 49.3	N. 15 55.7	- 3 16.8	22	3 3 35.6	N. 17 3.2	- 3 35.7
<b>Thursday 4.</b>				<b>Monday 8.</b>			
0	2 48 9.0	N. 15 57.1	- 3 17.3	0	3 3 55.3	N. 17 4.5	- 3 36.0
2	2 48 28.7	15 58.6	3 17.8	2	3 4 15.0	17 5.9	3 36.3
4	2 48 48.4	16 0.1	3 18.3	4	3 4 34.7	17 7.3	3 36.6
6	2 49 8.1	16 1.5	3 18.8	6	3 4 54.4	17 8.6	3 36.9
8	2 49 27.9	16 2.9	3 19.2	8	3 5 14.2	17 9.9	3 37.1
10	2 49 47.6	16 4.4	3 19.7	10	3 5 33.9	17 11.3	3 37.4
12	2 50 7.3	16 5.9	3 20.2	12	3 5 53.6	17 12.7	3 37.7
14	2 50 27.0	16 7.3	3 20.6	14	3 6 13.3	17 14.0	3 38.0
16	2 50 46.7	16 8.7	3 21.0	16	3 6 33.0	17 15.3	3 38.2
18	2 51 6.5	16 10.2	3 21.5	18	3 6 52.7	17 16.7	3 38.5
20	2 51 26.2	16 11.6	3 22.0	20	3 7 12.4	17 18.1	3 38.8
22	2 51 45.9	N. 16 13.0	- 3 22.4	22	3 7 32.1	N. 17 19.4	- 3 39.1

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

MAY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Tuesday 9.</b>				<b>Saturday 13.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	3 7 51.8	N. 17 20.7	- 3 39.3	0	3 23 38.0	N. 18 22.4	- 3 47.0
2	3 8 11.5	17 22.1	3 39.6	2	3 23 57.7	18 23.7	3 47.1
4	3 8 31.2	17 23.4	3 39.9	4	3 24 17.4	18 24.9	3 47.2
6	3 8 50.9	17 24.7	3 40.1	6	3 24 37.1	18 26.1	3 47.2
8	3 9 10.7	17 26.0	3 40.3	8	3 24 56.9	18 27.3	3 47.2
10	3 9 30.4	17 27.4	3 40.6	10	3 25 16.6	18 28.6	3 47.3
12	3 9 50.1	17 28.7	3 40.8	12	3 25 36.3	18 29.8	3 47.4
14	3 10 9.8	17 30.0	3 41.0	14	3 25 56.0	18 31.0	3 47.4
16	3 10 29.5	17 31.3	3 41.2	16	3 26 15.7	18 32.2	3 47.4
18	3 10 49.3	17 32.7	3 41.5	18	3 26 35.5	18 33.4	3 47.5
20	3 11 9.0	17 34.0	3 41.7	20	3 26 55.2	18 34.6	3 47.5
22	3 11 28.7	N. 17 35.3	- 3 41.9	22	3 27 14.9	N. 18 35.8	- 3 47.5
<b>Wednesday 10.</b>				<b>Sunday 14.</b>			
0	3 11 48.4	N. 17 36.6	- 3 42.1	0	3 27 34.6	N. 18 37.0	- 3 47.5
2	3 12 8.1	17 37.9	3 42.3	2	3 27 54.3	18 38.2	3 47.5
4	3 12 27.8	17 39.2	3 42.5	4	3 28 14.0	18 39.4	3 47.5
6	3 12 47.5	17 40.5	3 42.7	6	3 28 33.7	18 40.6	3 47.5
8	3 13 7.3	17 41.8	3 42.9	8	3 28 53.5	18 41.8	3 47.5
10	3 13 27.0	17 43.1	3 43.1	10	3 29 13.2	18 43.0	3 47.5
12	3 13 46.7	17 44.4	3 43.3	12	3 29 32.9	18 44.2	3 47.5
14	3 14 6.4	17 45.7	3 43.5	14	3 29 52.6	18 45.4	3 47.5
16	3 14 26.1	17 47.0	3 43.6	16	3 30 12.3	18 46.6	3 47.5
18	3 14 45.8	17 48.3	3 43.8	18	3 30 32.1	18 47.8	3 47.5
20	3 15 5.5	17 49.6	3 44.0	20	3 30 51.8	18 49.0	3 47.5
22	3 15 25.2	N. 17 50.9	- 3 44.2	22	3 31 11.5	N. 18 50.2	- 3 47.5
<b>Thursday 11.</b>				<b>Monday 15.</b>			
0	3 15 44.9	N. 17 52.1	- 3 44.3	0	3 31 31.2	N. 18 51.4	- 3 47.5
2	3 16 4.6	17 53.4	3 44.5	2	3 31 50.9	18 52.6	3 47.5
4	3 16 24.3	17 54.7	3 44.7	4	3 32 10.6	18 53.8	3 47.5
6	3 16 44.0	17 56.0	3 44.8	6	3 32 30.3	18 55.0	3 47.4
8	3 17 3.8	17 57.2	3 44.9	8	3 32 50.1	18 56.1	3 47.3
10	3 17 23.5	17 58.5	3 45.1	10	3 33 9.8	18 57.3	3 47.3
12	3 17 43.2	17 59.8	3 45.2	12	3 33 29.5	18 58.5	3 47.3
14	3 18 2.9	18 1.1	3 45.3	14	3 33 49.2	18 59.7	3 47.2
16	3 18 22.6	18 2.3	3 45.4	16	3 34 8.9	19 0.8	3 47.1
18	3 18 42.4	18 3.6	3 45.6	18	3 34 28.6	19 2.0	3 47.1
20	3 19 2.1	18 4.9	3 45.7	20	3 34 48.3	19 3.2	3 47.1
22	3 19 21.8	N. 18 6.2	- 3 45.8	22	3 35 8.0	N. 19 4.3	- 3 47.0
<b>Friday 12.</b>				<b>Tuesday 16.</b>			
0	3 19 41.5	N. 18 7.4	- 3 45.9	0	3 35 27.7	N. 19 5.4	- 3 46.9
2	3 20 1.2	18 8.7	3 46.0	2	3 35 47.4	19 6.6	3 46.9
4	3 20 20.9	18 10.0	3 46.1	4	3 36 7.1	19 7.8	3 46.8
6	3 20 40.6	18 11.2	3 46.2	6	3 36 26.8	19 8.9	3 46.7
8	3 21 0.4	18 12.4	3 46.3	8	3 36 46.6	19 10.0	3 46.6
10	3 21 20.1	18 13.7	3 46.4	10	3 37 6.3	19 11.2	3 46.5
12	3 21 39.8	18 15.0	3 46.5	12	3 37 26.0	19 12.4	3 46.4
14	3 21 59.5	18 16.2	3 46.6	14	3 37 45.7	19 13.5	3 46.3
16	3 22 19.2	18 17.4	3 46.7	16	3 38 5.4	19 14.6	3 46.2
18	3 22 38.9	18 18.7	3 46.8	18	3 38 25.2	19 15.8	3 46.1
20	3 22 58.6	18 20.0	3 46.9	20	3 38 44.9	19 16.9	3 46.0
22	3 23 18.3	N. 18 21.2	- 3 47.0	22	3 39 4.6	N. 19 18.0	- 3 45.9

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



MAY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Wednesday 17.</b>				<b>Sunday 21.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	3 39 24.3	N. 19 19.1	- 3 45.8	0	3 55 10.5	N. 20 10.6	- 3 35.6
2	3 39 44.0	19 20.3	3 45.7	2	3 55 30.2	20 11.6	3 35.3
4	3 40 3.7	19 21.4	3 45.6	4	3 55 49.9	20 12.6	3 35.0
6	3 40 23.4	19 22.5	3 45.4	6	3 56 9.6	20 13.6	3 34.7
8	3 40 43.2	19 23.6	3 45.2	8	3 56 29.4	20 14.6	3 34.3
10	3 41 2.9	19 24.8	3 45.1	10	3 56 49.1	20 15.6	3 34.0
12	3 41 22.6	19 25.9	3 45.0	12	3 57 8.8	20 16.6	3 33.7
14	3 41 42.3	19 27.0	3 44.8	14	3 57 28.5	20 17.6	3 33.4
16	3 42 2.0	19 28.1	3 44.6	16	3 57 48.2	20 18.6	3 33.0
18	3 42 21.7	19 29.2	3 44.5	18	3 58 8.0	20 19.6	3 32.7
20	3 42 41.4	19 30.3	3 44.4	20	3 58 27.7	20 20.6	3 32.4
22	3 43 1.1	N. 19 31.4	- 3 44.2	22	3 58 47.4	N. 20 21.6	- 3 32.0
<b>Thursday 18.</b>				<b>Monday 22.</b>			
0	3 43 20.8	N. 19 32.5	- 3 44.0	0	3 59 7.1	N. 20 22.6	- 3 31.6
2	3 43 40.5	19 33.6	3 43.9	2	3 59 26.8	20 23.6	3 31.3
4	3 44 0.2	19 34.7	3 43.7	4	3 59 46.5	20 24.6	3 30.9
6	3 44 19.9	19 35.8	3 43.5	6	4 0 6.2	20 25.6	3 30.5
8	3 44 39.7	19 36.9	3 43.3	8	4 0 26.0	20 26.5	3 30.1
10	3 44 59.4	19 38.0	3 43.2	10	4 0 45.7	20 27.5	3 29.8
12	3 45 19.1	19 39.1	3 43.0	12	4 1 5.4	20 28.5	3 29.4
14	3 45 38.8	19 40.2	3 42.8	14	4 1 25.1	20 29.5	3 29.0
16	3 45 58.5	19 41.2	3 42.6	16	4 1 44.8	20 30.4	3 28.7
18	3 46 18.3	19 42.3	3 42.4	18	4 2 4.5	20 31.4	3 28.3
20	3 46 38.0	19 43.4	3 42.2	20	4 2 24.2	20 32.4	3 27.9
22	3 46 57.7	N. 19 44.5	- 3 42.0	22	4 2 43.9	N. 20 33.4	- 3 27.5
<b>Friday 19.</b>				<b>Tuesday 23.</b>			
0	3 47 17.4	N. 19 45.5	- 3 41.8	0	4 3 3.6	N. 20 34.3	- 3 27.1
2	3 47 37.1	19 46.6	3 41.6	2	4 3 23.3	20 35.3	3 26.7
4	3 47 56.8	19 47.7	3 41.4	4	4 3 43.0	20 36.3	3 26.3
6	3 48 16.5	19 48.8	3 41.2	6	4 4 2.7	20 37.2	3 25.9
8	3 48 36.3	19 49.8	3 40.9	8	4 4 22.5	20 38.1	3 25.5
10	3 48 56.0	19 50.9	3 40.7	10	4 4 42.2	20 39.1	3 25.1
12	3 49 15.7	19 52.0	3 40.5	12	4 5 1.9	20 40.1	3 24.7
14	3 49 35.4	19 53.0	3 40.3	14	4 5 21.6	20 41.0	3 24.3
16	3 49 55.1	19 54.0	3 40.0	16	4 5 41.3	20 41.9	3 23.8
18	3 50 14.8	19 55.1	3 39.8	18	4 6 1.1	20 42.9	3 23.4
20	3 50 34.5	19 56.2	3 39.6	20	4 6 20.8	20 43.8	3 23.0
22	3 50 54.2	N. 19 57.2	- 3 39.3	22	4 6 40.5	N. 20 44.7	- 3 22.6
<b>Saturday 20.</b>				<b>Wednesday 24.</b>			
0	3 51 13.9	N. 19 58.2	- 3 39.0	0	4 7 0.2	N. 20 45.6	- 3 22.1
2	3 51 33.6	19 59.3	3 38.8	2	4 7 19.9	20 46.6	3 21.7
4	3 51 53.3	20 0.4	3 38.5	4	4 7 39.6	20 47.5	3 21.3
6	3 52 13.0	20 1.4	3 38.2	6	4 7 59.3	20 48.4	3 20.8
8	3 52 32.8	20 2.4	3 37.9	8	4 8 19.1	20 49.3	3 20.3
10	3 52 52.5	20 3.5	3 37.7	10	4 8 38.8	20 50.3	3 19.9
12	3 53 12.2	20 4.5	3 37.4	12	4 8 58.5	20 51.2	3 19.5
14	3 53 31.9	20 5.5	3 37.1	14	4 9 18.2	20 52.1	3 19.0
16	3 53 51.6	20 6.5	3 36.8	16	4 9 37.9	20 53.0	3 18.5
18	3 54 11.4	20 7.6	3 36.5	18	4 9 57.6	20 53.9	3 18.1
20	3 54 31.1	20 8.6	3 36.2	20	4 10 17.3	20 54.8	3 17.6
22	3 54 50.8	N. 20 9.6	- 3 35.9	22	4 10 37.0	N. 20 55.7	- 3 17.1

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

MAY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Thursday 25.</b>				<b>Monday 29.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	4 10 56.7	N. 20 56.6	- 3 16.6	0	4 26 43.0	N. 21 36.9	- 2 49.3
2	4 11 16.4	20 57.5	3 16.1	2	4 27 2.7	21 37.7	2 48.7
4	4 11 36.1	20 58.4	3 15.6	4	4 27 22.4	21 38.5	2 48.1
6	4 11 55.8	20 59.3	3 15.1	6	4 27 42.1	21 39.3	2 47.4
8	4 12 15.6	21 0.2	3 14.6	8	4 28 1.9	21 40.0	2 46.7
10	4 12 35.3	21 1.1	3 14.1	10	4 28 21.6	21 40.8	2 46.1
12	4 12 55.0	21 2.0	3 13.6	12	4 28 41.3	21 41.6	2 45.4
14	4 13 14.7	21 2.9	3 13.1	14	4 29 1.0	21 42.3	2 44.7
16	4 13 34.4	21 3.7	3 12.6	16	4 29 20.7	21 43.0	2 44.0
18	4 13 54.2	21 4.6	3 12.1	18	4 29 40.4	21 43.8	2 43.4
20	4 14 13.9	21 5.5	3 11.6	20	4 30 0.1	21 44.6	2 42.7
22	4 14 33.6	N. 21 6.4	- 3 11.1	22	4 30 19.8	N. 21 45.3	- 2 42.0
<b>Friday 26.</b>				<b>Tuesday 30.</b>			
0	4 14 53.3	N. 21 7.2	- 3 10.5	0	4 30 39.5	N. 21 46.0	- 2 41.3
2	4 15 13.0	21 8.1	3 10.0	2	4 30 59.2	21 46.8	2 40.6
4	4 15 32.7	21 9.0	3 9.5	4	4 31 18.9	21 47.6	2 39.9
6	4 15 52.4	21 9.9	3 8.9	6	4 31 38.6	21 48.3	2 39.2
8	4 16 12.2	21 10.7	3 8.3	8	4 31 58.4	21 49.0	2 38.5
10	4 16 31.9	21 11.6	3 7.8	10	4 32 18.1	21 49.8	2 37.8
12	4 16 51.6	21 12.5	3 7.3	12	4 32 37.8	21 50.5	2 37.1
14	4 17 11.3	21 13.3	3 6.7	14	4 32 57.5	21 51.2	2 36.4
16	4 17 31.0	21 14.1	3 6.1	16	4 33 17.2	21 51.9	2 35.7
18	4 17 50.7	21 15.0	3 5.6	18	4 33 37.0	21 52.7	2 35.0
20	4 18 10.4	21 15.9	3 5.1	20	4 33 56.7	21 53.4	2 34.3
22	4 18 30.1	N. 21 16.7	- 3 4.5	22	4 34 16.4	N. 21 54.1	- 2 33.6
<b>Saturday 27.</b>				<b>Wednesday 31.</b>			
0	4 18 49.8	N. 21 17.5	- 3 3.9	0	4 34 36.1	N. 21 54.8	- 2 32.9
2	4 19 9.5	21 18.4	3 3.4	2	4 34 55.8	21 55.5	2 32.2
4	4 19 29.2	21 19.2	3 2.8	4	4 35 15.5	21 56.2	2 31.5
6	4 19 48.9	21 20.0	3 2.2	6	4 35 35.2	21 56.9	2 30.8
8	4 20 8.7	21 20.8	3 1.6	8	4 35 55.0	21 57.6	2 30.0
10	4 20 28.4	21 21.7	3 1.0	10	4 36 14.7	21 58.3	2 29.3
12	4 20 48.1	21 22.5	3 0.4	12	4 36 34.4	21 59.0	2 28.6
14	4 21 7.8	21 23.3	2 59.8	14	4 36 54.1	21 59.7	2 27.8
16	4 21 27.5	21 24.1	2 59.2	16	4 37 13.8	22 0.4	2 27.0
18	4 21 47.3	21 25.0	2 58.6	18	4 37 33.5	22 1.1	2 26.3
20	4 22 7.0	21 25.8	2 58.0	20	4 37 53.2	22 1.8	2 25.6
22	4 22 26.7	N. 21 26.6	- 2 57.4	22	4 38 12.9	22 2.5	2 24.8
<b>Sunday 28.</b>				<b>24</b>			
0	4 22 46.4	N. 21 27.4	- 2 56.8	0	4 38 32.6	N. 22 3.1	- 2 24.0
2	4 23 6.1	21 28.2	2 56.2				
4	4 23 25.8	21 29.0	2 55.6				
6	4 23 45.5	21 29.8	2 55.0				
8	4 24 5.3	21 30.6	2 54.3				
10	4 24 25.0	21 31.4	2 53.7				
12	4 24 44.7	21 32.2	2 53.1				
14	4 25 4.4	21 33.0	2 52.5				
16	4 25 24.1	21 33.8	2 51.8				
18	4 25 43.9	21 34.6	2 51.2				
20	4 26 3.6	21 35.4	2 50.6				
22	4 26 23.3	N. 21 36.2	- 2 50.0				

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



JUNE.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Thursday 1.</b>				<b>Monday 5.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	4 38 32.6	N. 22 3.1	- 2 24.0	0	4 54 18.9	N. 22 32.8	- 1 44.8
2	4 38 52.3	22 3.8	2 23.3	2	4 54 38.6	22 33.4	1 44.0
4	4 39 12.0	22 4.5	2 22.6	4	4 54 58.3	22 34.0	1 43.1
6	4 39 31.7	22 5.2	2 21.8	6	4 55 18.0	22 34.5	1 42.2
8	4 39 51.5	22 5.8	2 21.0	8	4 55 37.8	22 35.0	1 41.3
10	4 40 11.2	22 6.5	2 20.3	10	4 55 57.5	22 35.6	1 40.5
12	4 40 30.9	22 7.2	2 19.5	12	4 56 17.2	22 36.1	1 39.6
14	4 40 50.6	22 7.9	2 18.7	14	4 56 36.9	22 36.6	1 38.7
16	4 41 10.3	22 8.5	2 17.9	16	4 56 56.6	22 37.1	1 37.8
18	4 41 30.1	22 9.2	2 17.2	18	4 57 16.3	22 37.7	1 36.9
20	4 41 49.8	22 9.9	2 16.4	20	4 57 36.0	22 38.2	1 36.0
22	4 42 9.5	N. 22 10.5	- 2 15.6	22	4 57 55.7	N. 22 38.7	- 1 35.1
<b>Friday 2.</b>				<b>Tuesday 6.</b>			
0	4 42 29.2	N. 22 11.1	- 2 14.8	0	4 58 15.4	N. 22 39.2	- 1 34.2
2	4 42 48.9	22 11.8	2 14.0	2	4 58 35.1	22 39.7	1 33.3
4	4 43 8.6	22 12.5	2 13.2	4	4 58 54.8	22 40.2	1 32.4
6	4 43 28.3	22 13.1	2 12.4	6	4 59 14.5	22 40.7	1 31.5
8	4 43 48.1	22 13.7	2 11.6	8	4 59 34.3	22 41.2	1 30.6
10	4 44 7.8	22 14.4	2 10.8	10	4 59 54.0	22 41.7	1 29.7
12	4 44 27.5	22 15.0	2 10.0	12	5 0 13.7	22 42.2	1 28.8
14	4 44 47.2	22 15.6	2 9.2	14	5 0 33.4	22 42.7	1 27.9
16	4 45 6.9	22 16.2	2 8.4	16	5 0 53.1	22 43.2	1 26.9
18	4 45 26.6	22 16.9	2 7.6	18	5 1 12.9	22 43.7	1 26.0
20	4 45 46.3	22 17.5	2 6.8	20	5 1 32.6	22 44.2	1 25.1
22	4 46 6.0	N. 22 18.1	- 2 6.0	22	5 1 52.3	N. 22 44.7	- 1 24.2
<b>Saturday 3.</b>				<b>Wednesday 7.</b>			
0	4 46 25.7	N. 22 18.7	- 2 5.1	0	5 2 12.0	N. 22 45.2	- 1 23.2
2	4 46 45.4	22 19.4	2 4.3	2	5 2 31.7	22 45.7	1 22.3
4	4 47 5.1	22 20.0	2 3.5	4	5 2 51.4	22 46.2	1 21.4
6	4 47 24.8	22 20.6	2 2.7	6	5 3 11.1	22 46.7	1 20.4
8	4 47 44.6	22 21.2	2 1.8	8	5 3 30.9	22 47.1	1 19.5
10	4 48 4.3	22 21.8	2 1.0	10	5 3 50.6	22 47.6	1 18.6
12	4 48 24.0	22 22.4	2 0.2	12	5 4 10.3	22 48.1	1 17.6
14	4 48 43.7	22 23.0	1 59.4	14	5 4 30.0	22 48.6	1 16.7
16	4 49 3.4	22 23.6	1 58.5	16	5 4 49.7	22 49.0	1 15.8
18	4 49 23.2	22 24.2	1 57.7	18	5 5 9.4	22 49.5	1 14.8
20	4 49 42.9	22 24.8	1 56.9	20	5 5 29.1	22 50.0	1 13.9
22	4 50 2.6	N. 22 25.4	- 1 56.0	22	5 5 48.8	N. 22 50.5	- 1 13.0
<b>Sunday 4.</b>				<b>Thursday 8.</b>			
0	4 50 22.3	N. 22 26.0	- 1 55.1	0	5 6 8.5	N. 22 50.9	- 1 12.0
2	4 50 42.0	22 26.6	1 54.3	2	5 6 28.2	22 51.4	1 11.1
4	4 51 1.7	22 27.2	1 53.5	4	5 6 47.9	22 51.9	1 10.2
6	4 51 21.4	22 27.8	1 52.6	6	5 7 7.6	22 52.3	1 9.2
8	4 51 41.2	22 28.3	1 51.7	8	5 7 27.4	22 52.7	1 8.2
10	4 52 0.9	22 28.9	1 50.9	10	5 7 47.1	22 53.2	1 7.3
12	4 52 20.6	22 29.5	1 50.0	12	5 8 6.8	22 53.6	1 6.3
14	4 52 40.3	22 30.1	1 49.2	14	5 8 26.5	22 54.0	1 5.3
16	4 53 0.0	22 30.6	1 48.3	16	5 8 46.2	22 54.4	1 4.4
18	4 53 19.8	22 31.2	1 47.4	18	5 9 6.0	22 54.9	1 3.4
20	4 53 39.5	22 31.8	1 46.6	20	5 9 25.7	22 55.3	1 2.4
22	4 53 59.2	N. 22 32.3	- 1 45.7	22	5 9 45.4	N. 22 55.7	- 1 1.5

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

JUNE.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Friday 9.</b>				<b>Tuesday 13.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	5 10 5.1	N. 22 56.1	- 1 0.5	0	5 25 51.3	N. 23 13.0	- 0 12.5
2	5 10 24.8	22 56.5	0 59.6	2	5 26 11.0	23 13.3	0 11.5
4	5 10 44.5	22 56.9	0 58.6	4	5 26 30.7	23 13.6	0 10.5
6	5 11 4.2	22 57.3	0 57.6	6	5 26 50.4	23 13.9	0 9.5
8	5 11 24.0	22 57.7	0 56.6	8	5 27 10.2	23 14.1	0 8.4
10	5 11 43.7	22 58.1	0 55.7	10	5 27 29.9	23 14.4	0 7.4
12	5 12 3.4	22 58.5	0 54.7	12	5 27 49.6	23 14.7	0 6.4
14	5 12 23.1	22 58.9	0 53.7	14	5 28 9.3	23 15.0	0 5.4
16	5 12 42.8	22 59.3	0 52.7	16	5 28 29.0	23 15.2	0 4.3
18	5 13 2.5	22 59.7	0 51.8	18	5 28 48.8	23 15.5	0 3.3
20	5 13 22.2	23 0.1	0 50.8	20	5 29 8.5	23 15.8	0 2.3
22	5 13 41.9	N. 23 0.5	- 0 49.8	22	5 29 28.2	N. 23 16.0	- 0 1.2
<b>Saturday 10.</b>				<b>Wednesday 14.</b>			
0	5 14 1.6	N. 23 0.9	- 0 48.8	0	5 29 47.9	N. 23 16.2	- 0 0.1
2	5 14 21.3	23 1.3	0 47.9	2	5 30 7.6	23 16.5	+ 0 0.9
4	5 14 41.0	23 1.7	0 46.9	4	5 30 27.3	23 16.8	0 1.9
6	5 15 0.7	23 2.1	0 45.9	6	5 30 47.0	23 17.0	0 2.9
8	5 15 20.5	23 2.4	0 44.9	8	5 31 6.8	23 17.2	0 4.0
10	5 15 40.2	23 2.8	0 43.9	10	5 31 26.5	23 17.5	0 5.0
12	5 15 59.9	23 3.2	0 42.9	12	5 31 46.2	23 17.7	0 6.0
14	5 16 19.6	23 3.6	0 41.9	14	5 32 5.9	23 17.9	0 7.1
16	5 16 39.3	23 3.9	0 40.9	16	5 32 25.6	23 18.1	0 8.2
18	5 16 59.1	23 4.3	0 39.9	18	5 32 45.3	23 18.4	0 9.2
20	5 17 18.8	23 4.7	0 38.9	20	5 33 5.0	23 18.6	0 10.2
22	5 17 38.5	N. 23 5.1	- 0 37.9	22	5 33 24.7	N. 23 18.8	+ 0 11.3
<b>Sunday 11.</b>				<b>Thursday 15.</b>			
0	5 17 58.2	N. 23 5.4	- 0 36.9	0	5 33 44.4	N. 23 19.0	+ 0 12.4
2	5 18 17.9	23 5.8	0 35.9	2	5 34 4.1	23 19.2	0 13.4
4	5 18 37.6	23 6.2	0 34.9	4	5 34 23.8	23 19.4	0 14.4
6	5 18 57.3	23 6.5	0 33.9	6	5 34 43.5	23 19.6	0 15.5
8	5 19 17.1	23 6.8	0 32.9	8	5 35 3.3	23 19.8	0 16.6
10	5 19 36.8	23 7.2	0 31.9	10	5 35 23.0	23 20.0	0 17.6
12	5 19 56.5	23 7.5	0 30.9	12	5 35 42.7	23 20.2	0 18.6
14	5 20 16.2	23 7.8	0 29.9	14	5 36 2.4	23 20.4	0 19.7
16	5 20 35.9	23 8.1	0 28.9	16	5 36 22.1	23 20.6	0 20.8
18	5 20 55.7	23 8.5	0 27.9	18	5 36 41.9	23 20.8	0 21.8
20	5 21 15.4	23 8.8	0 26.9	20	5 37 1.6	23 21.0	0 22.9
22	5 21 35.1	N. 23 9.1	- 0 25.9	22	5 37 21.3	N. 23 21.2	+ 0 24.0
<b>Monday 12.</b>				<b>Friday 16.</b>			
0	5 21 54.8	N. 23 9.4	- 0 24.8	0	5 37 41.0	N. 23 21.3	+ 0 25.1
2	5 22 14.5	23 9.7	0 23.8	2	5 38 0.7	23 21.5	0 26.1
4	5 22 34.2	23 10.0	0 22.8	4	5 38 20.4	23 21.7	0 27.1
6	5 22 53.9	23 10.3	0 21.8	6	5 38 40.1	23 21.9	0 28.2
8	5 23 13.7	23 10.6	0 20.7	8	5 38 59.9	23 22.0	0 29.3
10	5 23 33.4	23 10.9	0 19.7	10	5 39 19.6	23 22.2	0 30.3
12	5 23 53.1	23 11.2	0 18.7	12	5 39 39.3	23 22.4	0 31.4
14	5 24 12.8	23 11.5	0 17.7	14	5 39 59.0	23 22.6	0 32.5
16	5 24 32.5	23 11.8	0 16.6	16	5 40 18.7	23 22.7	0 33.6
18	5 24 52.2	23 12.1	0 15.6	18	5 40 38.5	23 22.9	0 34.6
20	5 25 11.9	23 12.4	0 14.6	20	5 40 58.2	23 23.1	0 35.7
22	5 25 31.6	N. 23 12.7	- 0 13.6	22	5 41 17.9	N. 23 23.2	+ 0 36.8

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



JUNE.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Saturday 17.</b>				<b>Wednesday 21.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	5 41 37.6	N. 23 23.3	+ 0 37.9	0	5 57 23.8	N. 23 27.1	+ 1 29.6
2	5 41 57.3	23 23.5	0 38.9	2	5 57 43.5	23 27.1	1 30.7
4	5 42 17.0	23 23.7	0 39.9	4	5 58 3.2	23 27.1	1 31.8
6	5 42 36.7	23 23.8	0 41.0	6	5 58 22.9	23 27.1	1 32.9
8	5 42 56.5	23 23.9	0 42.1	8	5 58 42.7	23 27.1	1 33.9
10	5 43 16.2	23 24.1	0 43.1	10	5 59 2.4	23 27.1	1 35.0
12	5 43 35.9	23 24.2	0 44.2	12	5 59 22.1	23 27.1	1 36.1
14	5 43 55.6	23 24.3	0 45.3	14	5 59 41.8	23 27.1	1 37.2
16	5 44 15.3	23 24.4	0 46.4	16	6 0 1.5	23 27.1	1 38.2
18	5 44 35.0	23 24.6	0 47.4	18	6 0 21.2	23 27.1	1 39.3
20	5 44 54.7	23 24.7	0 48.5	20	6 0 40.9	23 27.1	1 40.4
22	5 45 14.4	N. 23 24.8	+ 0 49.6	22	6 1 0.6	N. 23 27.1	+ 1 41.5
<b>Sunday 18.</b>				<b>Thursday 22.</b>			
0	5 45 34.1	N. 23 24.9	+ 0 50.7	0	6 1 20.3	N. 23 27.0	+ 1 42.5
2	5 45 53.8	23 25.0	0 51.7	2	6 1 40.0	23 27.0	1 43.6
4	5 46 13.5	23 25.1	0 52.8	4	6 1 59.7	23 27.0	1 44.7
6	5 46 33.2	23 25.2	0 53.9	6	6 2 19.4	23 26.9	1 45.8
8	5 46 53.0	23 25.3	0 55.0	8	6 2 39.2	23 26.9	1 46.9
10	5 47 12.7	23 25.4	0 56.0	10	6 2 58.9	23 26.9	1 48.0
12	5 47 32.4	23 25.5	0 57.1	12	6 3 18.6	23 26.8	1 49.1
14	5 47 52.1	23 25.6	0 58.2	14	6 3 38.3	23 26.8	1 50.2
16	5 48 11.8	23 25.7	0 59.3	16	6 3 58.0	23 26.7	1 51.2
18	5 48 31.6	23 25.8	1 0.3	18	6 4 17.8	23 26.7	1 52.3
20	5 48 51.3	23 25.9	1 1.4	20	6 4 37.5	23 26.7	1 53.4
22	5 49 11.0	N. 23 26.0	+ 1 2.5	22	6 4 57.2	N. 23 26.6	+ 1 54.5
<b>Monday 19.</b>				<b>Friday 23.</b>			
0	5 49 30.7	N. 23 26.0	+ 1 3.6	0	6 5 16.9	N. 23 26.5	+ 1 55.5
2	5 49 50.4	23 26.1	1 4.6	2	6 5 36.6	23 26.5	1 56.6
4	5 50 10.1	23 26.1	1 5.7	4	6 5 56.3	23 26.4	1 57.7
6	5 50 29.8	23 26.2	1 6.8	6	6 6 16.0	23 26.3	1 58.8
8	5 50 49.6	23 26.3	1 7.9	8	6 6 35.8	23 26.2	1 59.8
10	5 51 9.3	23 26.3	1 8.9	10	6 6 55.5	23 26.2	2 0.9
12	5 51 29.0	23 26.4	1 10.0	12	6 7 15.2	23 26.1	2 2.0
14	5 51 48.7	23 26.5	1 11.1	14	6 7 34.9	23 26.0	2 3.1
16	5 52 8.4	23 26.5	1 12.2	16	6 7 54.6	23 25.9	2 4.1
18	5 52 28.1	23 26.6	1 13.3	18	6 8 14.4	23 25.8	2 5.2
20	5 52 47.8	23 26.7	1 14.4	20	6 8 34.1	23 25.7	2 6.3
22	5 53 7.5	N. 23 26.7	+ 1 15.5	22	6 8 53.8	N. 23 25.6	+ 2 7.4
<b>Tuesday 20.</b>				<b>Saturday 24.</b>			
0	5 53 27.2	N. 23 26.8	+ 1 16.6	0	6 9 13.5	N. 23 25.5	+ 2 8.4
2	5 53 46.9	23 26.9	1 17.7	2	6 9 33.2	23 25.4	2 9.5
4	5 54 6.6	23 26.9	1 18.8	4	6 9 52.9	23 25.3	2 10.6
6	5 54 26.3	23 26.9	1 19.9	6	6 10 12.6	23 25.2	2 11.7
8	5 54 46.1	23 26.9	1 21.0	8	6 10 32.4	23 25.1	2 12.7
10	5 55 5.8	23 27.0	1 22.1	10	6 10 52.1	23 25.0	2 13.8
12	5 55 25.5	23 27.0	1 23.2	12	6 11 11.8	23 24.9	2 14.9
14	5 55 45.2	23 27.0	1 24.3	14	6 11 31.5	23 24.8	2 16.0
16	5 56 4.9	23 27.0	1 25.3	16	6 11 51.2	23 24.7	2 17.0
18	5 56 24.7	23 27.1	1 26.4	18	6 12 10.9	23 24.6	2 18.1
20	5 56 44.4	23 27.1	1 27.5	20	6 12 30.6	23 24.5	2 19.2
22	5 57 4.1	N. 23 27.1	+ 1 28.6	22	6 12 50.3	N. 23 24.4	+ 2 20.2

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

JUNE.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Sunday 25.</b>				<b>Thursday 29.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	6 13 10.0	N. 23 24.2	+ 2 21.2	0	6 28 56.3	N. 23 14.8	+ 3 11.3
2	6 13 29.7	23 24.1	2 22.3	2	6 29 16.0	23 14.6	3 12.3
4	6 13 49.4	23 24.0	2 23.4	4	6 29 35.7	23 14.3	3 13.3
6	6 14 9.1	23 23.8	2 24.5	6	6 29 55.4	23 14.0	3 14.3
8	6 14 28.9	23 23.7	2 25.5	8	6 30 15.2	23 13.7	3 15.3
10	6 14 48.6	23 23.6	2 26.6	10	6 30 34.9	23 13.5	3 16.3
12	6 15 8.3	23 23.4	2 27.7	12	6 30 54.6	23 13.2	3 17.3
14	6 15 28.0	23 23.3	2 28.8	14	6 31 14.3	23 12.9	3 18.3
16	6 15 47.7	23 23.1	2 29.8	16	6 31 34.0	23 12.6	3 19.3
18	6 16 7.5	23 23.0	2 30.9	18	6 31 53.7	23 12.3	3 20.3
20	6 16 27.2	23 22.9	2 32.0	20	6 32 13.4	23 12.0	3 21.3
22	6 16 46.9	N. 23 22.7	+ 2 33.0	22	6 32 33.1	N. 23 11.7	+ 3 22.3
<b>Monday 26.</b>				<b>Friday 30.</b>			
0	6 17 6.6	N. 23 22.5	+ 2 34.0	0	6 32 52.8	N. 23 11.4	+ 3 23.3
2	6 17 26.3	23 22.4	2 35.1	2	6 33 12.5	23 11.1	3 24.3
4	6 17 46.0	23 22.2	2 36.2	4	6 33 32.2	23 10.8	3 25.3
6	6 18 5.7	23 22.0	2 37.2	6	6 33 51.9	23 10.5	3 26.3
8	6 18 25.5	23 21.8	2 38.2	8	6 34 11.7	23 10.2	3 27.3
10	6 18 45.2	23 21.7	2 39.3	10	6 34 31.4	23 9.9	3 28.3
12	6 19 4.9	23 21.5	2 40.4	12	6 34 51.1	23 9.6	3 29.3
14	6 19 24.6	23 21.3	2 41.4	14	6 35 10.8	23 9.3	3 30.3
16	6 19 44.3	23 21.1	2 42.4	16	6 35 30.5	23 8.9	3 31.3
18	6 20 4.0	23 20.9	2 43.5	18	6 35 50.3	23 8.6	3 32.3
20	6 20 23.7	23 20.7	2 44.6	20	6 36 10.0	23 8.3	3 33.3
22	6 20 43.4	N. 23 20.5	+ 2 45.6	22	6 36 29.7	23 8.0	3 34.3
<b>Tuesday 27.</b>				<b>Wednesday 28.</b>			
0	6 21 3.1	N. 23 20.3	+ 2 46.6	0	6 24 59.7	N. 23 17.7	+ 2 59.0
2	6 21 22.8	23 20.1	2 47.7	2	6 25 19.4	23 17.5	3 0.1
4	6 21 42.5	23 19.9	2 48.8	4	6 25 39.1	23 17.3	3 1.1
6	6 22 2.2	23 19.7	2 49.8	6	6 25 58.8	23 17.1	3 2.1
8	6 22 22.0	23 19.5	2 50.8	8	6 26 18.6	23 16.8	3 3.1
10	6 22 41.7	23 19.3	2 51.9	10	6 26 38.3	23 16.6	3 4.2
12	6 23 1.4	23 19.1	2 52.9	12	6 26 58.0	23 16.4	3 5.2
14	6 23 21.1	23 18.9	2 53.9	14	6 27 17.7	23 16.1	3 6.2
16	6 23 40.8	23 18.6	2 54.9	16	6 27 37.4	23 15.8	3 7.2
18	6 24 0.6	23 18.4	2 56.0	18	6 27 57.2	23 15.6	3 8.3
20	6 24 20.3	23 18.2	2 57.0	20	6 28 16.9	23 15.4	3 9.3
22	6 24 40.0	N. 23 18.0	+ 2 58.0	22	6 28 36.6	N. 23 15.1	+ 3 10.3

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



JULY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Saturday 1.</b>				<b>Wednesday 5.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	6 36 49.4	N. 23 7.6	+ 3 35.2	0	6 52 35.6	N. 22 48.4	+ 4 19.7
2	6 37 9.1	23 7.3	3 36.2	2	6 52 55.3	22 48.0	4 20.6
4	6 37 28.8	23 7.0	3 37.2	4	6 53 15.0	22 47.5	4 21.5
6	6 37 48.5	23 6.6	3 38.2	6	6 53 34.7	22 47.0	4 22.4
8	6 38 8.3	23 6.2	3 39.1	8	6 53 54.5	22 46.5	4 23.2
10	6 38 28.0	23 5.9	3 40.1	10	6 54 14.2	22 46.1	4 24.1
12	6 38 47.7	23 5.6	3 41.1	12	6 54 33.9	22 45.6	4 25.0
14	6 39 7.4	23 5.2	3 42.1	14	6 54 53.6	22 45.1	4 25.8
16	6 39 27.1	23 4.8	3 43.0	16	6 55 13.3	22 44.6	4 26.6
18	6 39 46.8	23 4.5	3 44.0	18	6 55 33.1	22 44.1	4 27.5
20	6 40 6.5	23 4.2	3 45.0	20	6 55 52.8	22 43.6	4 28.4
22	6 40 26.2	N. 23 3.8	+ 3 45.9	22	6 56 12.5	N. 22 43.1	+ 4 29.2
<b>Sunday 2.</b>				<b>Thursday 6.</b>			
0	6 40 45.9	N. 23 3.4	+ 3 46.8	0	6 56 32.2	N. 22 42.6	+ 4 30.0
2	6 41 5.6	23 3.1	3 47.8	2	6 56 51.9	22 42.1	4 30.9
4	6 41 25.3	23 2.7	3 48.8	4	6 57 11.6	22 41.6	4 31.8
6	6 41 45.0	23 2.3	3 49.7	6	6 57 31.3	22 41.1	4 32.6
8	6 42 4.8	23 1.9	3 50.6	8	6 57 51.1	22 40.6	4 33.4
10	6 42 24.5	23 1.6	3 51.6	10	6 58 10.8	22 40.1	4 34.3
12	6 42 44.2	23 1.2	3 52.6	12	6 58 30.5	22 39.6	4 35.1
14	6 43 3.9	23 0.8	3 53.5	14	6 58 50.2	22 39.1	4 35.9
16	6 43 23.6	23 0.4	3 54.4	16	6 59 9.9	22 38.5	4 36.7
18	6 43 43.4	23 0.0	3 55.4	18	6 59 29.6	22 38.0	4 37.6
20	6 44 3.1	22 59.6	3 56.3	20	6 59 49.3	22 37.5	4 38.4
22	6 44 22.8	N. 22 59.2	+ 3 57.2	22	7 0 9.0	N. 22 37.0	+ 4 39.2
<b>Monday 3.</b>				<b>Friday 7.</b>			
0	6 44 42.5	N. 22 58.8	+ 3 58.1	0	7 0 28.7	N. 22 36.4	+ 4 40.0
2	6 45 2.2	22 58.4	3 59.1	2	7 0 48.4	22 35.9	4 40.8
4	6 45 21.9	22 58.0	4 0.0	4	7 1 8.1	22 35.4	4 41.6
6	6 45 41.6	22 57.6	4 0.9	6	7 1 27.8	22 34.9	4 42.4
8	6 46 1.4	22 57.2	4 1.8	8	7 1 47.6	22 34.3	4 43.2
10	6 46 21.1	22 56.8	4 2.8	10	7 2 7.3	22 33.8	4 44.0
12	6 46 40.8	22 56.4	4 3.7	12	7 2 27.0	22 33.3	4 44.8
14	6 47 0.5	22 56.0	4 4.6	14	7 2 46.7	22 32.7	4 45.6
16	6 47 20.2	22 55.5	4 5.5	16	7 3 6.4	22 32.1	4 46.4
18	6 47 39.9	22 55.1	4 6.4	18	7 3 26.2	22 31.6	4 47.2
20	6 47 59.6	22 54.7	4 7.3	20	7 3 45.9	22 31.0	4 48.0
22	6 48 19.3	N. 22 54.3	+ 4 8.2	22	7 4 5.6	N. 22 30.4	+ 4 48.8
<b>Tuesday 4.</b>				<b>Saturday 8.</b>			
0	6 48 39.0	N. 22 53.8	+ 4 9.1	0	7 4 25.3	N. 22 29.8	+ 4 49.5
2	6 48 58.7	22 53.4	4 10.0	2	7 4 45.0	22 29.3	4 50.3
4	6 49 18.4	22 53.0	4 10.9	4	7 5 4.7	22 28.7	4 51.1
6	6 49 38.1	22 52.5	4 11.8	6	7 5 24.4	22 28.1	4 51.9
8	6 49 57.9	22 52.0	4 12.7	8	7 5 44.2	22 27.5	4 52.6
10	6 50 17.6	22 51.6	4 13.6	10	7 6 3.9	22 27.0	4 53.4
12	6 50 37.3	22 51.2	4 14.5	12	7 6 23.6	22 26.4	4 54.2
14	6 50 57.0	22 50.7	4 15.4	14	7 6 43.3	22 25.8	4 55.0
16	6 51 16.7	22 50.2	4 16.2	16	7 7 3.0	22 25.2	4 55.7
18	6 51 36.5	22 49.8	4 17.1	18	7 7 22.7	22 24.6	4 56.5
20	6 51 56.2	22 49.4	4 18.0	20	7 7 42.4	22 24.0	4 57.3
22	6 52 15.9	N. 22 48.9	+ 4 18.9	22	7 8 2.1	N. 22 23.4	+ 4 58.0

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

JULY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Sunday 9.</b>				<b>Thursday 13.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	7 8 21.8	N. 22 22.8	+ 4 58.7	0	7 24 8.1	N. 21 51.1	+ 5 30.8
2	7 8 41.5	22 22.2	4 59.5	2	7 24 27.8	21 50.4	5 31.4
4	7 9 1.2	22 21.6	5 0.2	4	7 24 47.5	21 49.7	5 32.0
6	7 9 20.9	22 21.0	5 0.9	6	7 25 7.2	21 49.0	5 32.6
8	7 9 40.7	22 20.4	5 1.6	8	7 25 27.0	21 48.2	5 33.2
10	7 10 0.4	22 19.8	5 2.4	10	7 25 46.7	21 47.5	5 33.8
12	7 10 20.1	22 19.2	5 3.1	12	7 26 6.4	21 46.8	5 34.4
14	7 10 39.8	22 18.6	5 3.8	14	7 26 26.1	21 46.1	5 35.0
16	7 10 59.5	22 18.0	5 4.5	16	7 26 45.8	21 45.3	5 35.5
18	7 11 19.3	22 17.4	5 5.3	18	7 27 5.5	21 44.6	5 36.1
20	7 11 39.0	22 16.8	5 6.0	20	7 27 25.2	21 43.9	5 36.7
22	7 11 58.7	N. 22 16.2	+ 5 6.7	22	7 27 44.9	N. 21 43.1	+ 5 37.2
<b>Monday 10.</b>				<b>Friday 14.</b>			
0	7 12 18.4	N. 22 15.5	+ 5 7.4	0	7 28 4.6	N. 21 42.3	+ 5 37.7
2	7 12 38.1	22 14.9	5 8.1	2	7 28 24.3	21 41.6	5 38.3
4	7 12 57.8	22 14.3	5 8.8	4	7 28 44.0	21 40.9	5 38.8
6	7 13 17.5	22 13.7	5 9.5	6	7 29 3.7	21 40.1	5 39.3
8	7 13 37.3	22 13.0	5 10.2	8	7 29 23.5	21 39.3	5 39.8
10	7 13 57.0	22 12.4	5 10.9	10	7 29 43.2	21 38.6	5 40.4
12	7 14 16.7	22 11.8	5 11.6	12	7 30 2.9	21 37.8	5 40.9
14	7 14 36.4	22 11.1	5 12.3	14	7 30 22.6	21 37.0	5 41.4
16	7 14 56.1	22 10.4	5 13.0	16	7 30 42.3	21 36.2	5 41.9
18	7 15 15.9	22 9.8	5 13.7	18	7 31 2.1	21 35.5	5 42.5
20	7 15 35.6	22 9.2	5 14.4	20	7 31 21.8	21 34.7	5 43.0
22	7 15 55.3	N. 22 8.5	+ 5 15.1	22	7 31 41.5	N. 21 33.9	+ 5 43.5
<b>Tuesday 11.</b>				<b>Saturday 15.</b>			
0	7 16 15.0	N. 22 7.8	+ 5 15.7	0	7 32 1.2	N. 21 33.1	+ 5 44.0
2	7 16 34.7	22 7.2	5 16.4	2	7 32 20.9	21 32.3	5 44.5
4	7 16 54.4	22 6.5	5 17.1	4	7 32 40.6	21 31.5	5 45.0
6	7 17 14.1	22 5.8	5 17.7	6	7 33 0.3	21 30.7	5 45.5
8	7 17 33.9	22 5.1	5 18.3	8	7 33 20.1	21 29.9	5 46.0
10	7 17 53.6	22 4.5	5 19.0	10	7 33 39.8	21 29.1	5 46.5
12	7 18 13.3	22 3.8	5 19.7	12	7 33 59.5	21 28.3	5 47.0
14	7 18 33.0	22 3.1	5 20.3	14	7 34 19.2	21 27.5	5 47.5
16	7 18 52.7	22 2.4	5 20.9	16	7 34 38.9	21 26.7	5 48.0
18	7 19 12.4	22 1.7	5 21.6	18	7 34 58.6	21 25.9	5 48.5
20	7 19 32.1	22 1.0	5 22.3	20	7 35 18.3	21 25.1	5 49.0
22	7 19 51.8	N. 22 0.3	+ 5 22.9	22	7 35 38.0	N. 21 24.3	+ 5 49.5
<b>Wednesday 12.</b>				<b>Sunday 16.</b>			
0	7 20 11.5	N. 21 59.6	+ 5 23.5	0	7 35 57.7	N. 21 23.5	+ 5 49.9
2	7 20 31.2	21 58.9	5 24.2	2	7 36 17.4	21 22.7	5 50.4
4	7 20 50.9	21 58.2	5 24.8	4	7 36 37.1	21 21.9	5 50.9
6	7 21 10.6	21 57.5	5 25.4	6	7 36 56.8	21 21.1	5 51.4
8	7 21 30.4	21 56.8	5 26.0	8	7 37 16.6	21 20.2	5 51.8
10	7 21 50.1	21 56.1	5 26.6	10	7 37 36.3	21 19.4	5 52.3
12	7 22 9.8	21 55.4	5 27.2	12	7 37 56.0	21 18.6	5 52.8
14	7 22 29.5	21 54.7	5 27.8	14	7 38 15.7	21 17.8	5 53.2
16	7 22 49.2	21 54.0	5 28.4	16	7 38 35.4	21 16.9	5 53.6
18	7 23 9.0	21 53.3	5 29.0	18	7 38 55.2	21 16.1	5 54.1
20	7 23 28.7	21 52.6	5 29.6	20	7 39 14.9	21 15.3	5 54.5
22	7 23 48.4	N. 21 51.9	+ 5 30.2	22	7 39 34.6	N. 21 14.4	+ 5 54.9

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



JULY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Monday 17.</b>				<b>Friday 21.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	7 39 54.3	N. 21 13.5	+ 5 55.3	0	7 55 40.5	N. 20 30.1	+ 6 11.6
2	7 40 14.0	21 12.7	5 55.7	2	7 56 0.2	20 29.2	6 11.9
4	7 40 33.7	21 11.9	5 56.1	4	7 56 19.9	20 28.2	6 12.2
6	7 40 53.4	21 11.0	5 56.5	6	7 56 39.6	20 27.2	6 12.4
8	7 41 13.2	21 10.1	5 56.9	8	7 56 59.4	20 26.2	6 12.6
10	7 41 32.9	21 9.3	5 57.3	10	7 57 19.1	20 25.3	6 12.9
12	7 41 52.6	21 8.5	5 57.7	12	7 57 38.8	20 24.3	6 13.1
14	7 42 12.3	21 7.6	5 58.1	14	7 57 58.5	20 23.3	6 13.3
16	7 42 32.0	21 6.7	5 58.5	16	7 58 18.2	20 22.3	6 13.5
18	7 42 51.8	21 5.9	5 58.9	18	7 58 38.0	20 21.3	6 13.7
20	7 43 11.5	21 5.0	5 59.3	20	7 58 57.7	20 20.3	6 13.9
22	7 43 31.2	N. 21 4.1	+ 5 59.7	22	7 59 17.4	N. 20 19.3	+ 6 14.1
<b>Tuesday 18.</b>				<b>Saturday 22.</b>			
0	7 43 50.9	N. 21 3.2	+ 6 0.1	0	7 59 37.1	N. 20 18.3	+ 6 14.3
2	7 44 10.6	21 2.4	6 0.5	2	7 59 56.8	20 17.3	6 14.5
4	7 44 30.3	21 1.5	6 0.9	4	8 0 16.5	20 16.3	6 14.7
6	7 44 50.0	21 0.6	6 1.3	6	8 0 36.2	20 15.3	6 14.9
8	7 45 9.8	20 59.7	6 1.6	8	8 0 56.0	20 14.3	6 15.1
10	7 45 29.5	20 58.8	6 2.0	10	8 1 15.7	20 13.3	6 15.3
12	7 45 49.2	20 57.9	6 2.4	12	8 1 35.4	20 12.3	6 15.5
14	7 46 8.9	20 57.0	6 2.8	14	8 1 55.1	20 11.3	6 15.7
16	7 46 28.6	20 56.1	6 3.1	16	8 2 14.8	20 10.3	6 15.8
18	7 46 48.3	20 55.2	6 3.5	18	8 2 34.5	20 9.3	6 16.0
20	7 47 8.0	20 54.3	6 3.9	20	8 2 54.2	20 8.3	6 16.2
22	7 47 27.7	N. 20 53.4	+ 6 4.2	22	8 3 13.9	N. 20 7.3	+ 6 16.4
<b>Wednesday 19.</b>				<b>Sunday 23.</b>			
0	7 47 47.4	N. 20 52.5	+ 6 4.5	0	8 3 33.6	N. 20 6.3	+ 6 16.5
2	7 48 7.1	20 51.6	6 4.9	2	8 3 53.3	20 5.3	6 16.7
4	7 48 26.8	20 50.7	6 5.2	4	8 4 13.0	20 4.3	6 16.9
6	7 48 46.5	20 49.8	6 5.5	6	8 4 32.7	20 3.3	6 17.0
8	7 49 6.3	20 48.9	6 5.8	8	8 4 52.5	20 2.2	6 17.1
10	7 49 26.0	20 48.0	6 6.2	10	8 5 12.2	20 1.2	6 17.3
12	7 49 45.7	20 47.1	6 6.5	12	8 5 31.9	20 0.2	6 17.4
14	7 50 5.4	20 46.2	6 6.8	14	8 5 51.6	19 59.2	6 17.5
16	7 50 25.1	20 45.2	6 7.1	16	8 6 11.3	19 58.1	6 17.6
18	7 50 44.9	20 44.3	6 7.4	18	8 6 31.1	19 57.1	6 17.8
20	7 51 4.6	20 43.4	6 7.7	20	8 6 50.8	19 56.1	6 17.9
22	7 51 24.3	N. 20 42.5	+ 6 8.0	22	8 7 10.5	N. 19 55.0	+ 6 18.0
<b>Thursday 20.</b>				<b>Monday 24.</b>			
0	7 51 44.0	N. 20 41.5	+ 6 8.3	0	8 7 30.2	N. 19 53.9	+ 6 18.1
2	7 52 3.7	20 40.6	6 8.6	2	8 7 49.9	19 52.9	6 18.2
4	7 52 23.4	20 39.7	6 8.9	4	8 8 9.6	19 51.9	6 18.3
6	7 52 43.1	20 38.7	6 9.2	6	8 8 29.3	19 50.8	6 18.4
8	7 53 2.9	20 37.7	6 9.5	8	8 8 49.1	19 49.7	6 18.5
10	7 53 22.6	20 36.8	6 9.8	10	8 9 8.8	19 48.7	6 18.6
12	7 53 42.3	20 35.9	6 10.1	12	8 9 28.5	19 47.6	6 18.7
14	7 54 2.0	20 34.9	6 10.4	14	8 9 48.2	19 46.5	6 18.8
16	7 54 21.7	20 33.9	6 10.6	16	8 10 7.9	19 45.4	6 18.9
18	7 54 41.4	20 33.0	6 10.9	18	8 10 27.7	19 44.4	6 19.0
20	7 55 1.1	20 32.1	6 11.2	20	8 10 47.4	19 43.3	6 19.1
22	7 55 20.8	N. 20 31.1	+ 6 11.4	22	8 11 7.1	N. 19 42.2	+ 6 19.2

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

JULY.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Tuesday 25.</b>				<b>Saturday 29.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	8 11 26.8	N. 19 41.1	+ 6 19.2	0	8 27 13.0	N. 18 46.9	+ 6 17.5
2	8 11 46.5	19 40.1	6 19.3	2	8 27 32.7	18 45.8	6 17.4
4	8 12 6.2	19 39.0	6 19.4	4	8 27 52.4	18 44.6	6 17.3
6	8 12 25.9	19 37.9	6 19.4	6	8 28 12.1	18 43.4	6 17.2
8	8 12 45.7	19 36.8	6 19.4	8	8 28 31.9	18 42.2	6 17.0
10	8 13 5.4	19 35.8	6 19.5	10	8 28 51.6	18 41.0	6 16.9
12	8 13 25.1	19 34.7	6 19.5	12	8 29 11.3	18 39.8	6 16.8
14	8 13 44.8	19 33.6	6 19.5	14	8 29 31.0	18 38.6	6 16.6
16	8 14 4.5	19 32.5	6 19.5	16	8 29 50.7	18 37.4	6 16.4
18	8 14 24.2	19 31.4	6 19.6	18	8 30 10.4	18 36.2	6 16.3
20	8 14 43.9	19 30.3	6 19.6	20	8 30 30.1	18 35.0	6 16.1
22	8 15 3.6	N. 19 29.2	+ 6 19.6	22	8 30 49.8	N. 18 33.8	+ 6 15.9
<b>Wednesday 26.</b>				<b>Sunday 30.</b>			
0	8 15 23.3	N. 19 28.1	+ 6 19.6	0	8 31 9.5	N. 18 32.6	+ 6 15.7
2	8 15 43.0	19 27.0	6 19.6	2	8 31 29.2	18 31.4	6 15.5
4	8 16 2.7	19 25.9	6 19.6	4	8 31 48.9	18 30.2	6 15.3
6	8 16 22.4	19 24.8	6 19.6	6	8 32 8.6	18 29.0	6 15.1
8	8 16 42.2	19 23.7	6 19.6	8	8 32 28.4	18 27.7	6 14.9
10	8 17 1.9	19 22.6	6 19.6	10	8 32 48.1	18 26.5	6 14.7
12	8 17 21.6	19 21.5	6 19.6	12	8 33 7.8	18 25.3	6 14.5
14	8 17 41.3	19 20.4	6 19.6	14	8 33 27.5	18 24.1	6 14.3
16	8 18 1.0	19 19.2	6 19.6	16	8 33 47.2	18 22.8	6 14.0
18	8 18 20.8	19 18.1	6 19.6	18	8 34 7.0	18 21.6	6 13.8
20	8 18 40.5	19 17.0	6 19.6	20	8 34 26.7	18 20.4	6 13.6
22	8 19 0.2	N. 19 15.9	+ 6 19.6	22	8 34 46.4	N. 18 19.2	+ 6 13.4
<b>Thursday 27.</b>				<b>Monday 31.</b>			
0	8 19 19.9	N. 19 14.7	+ 6 19.5	0	8 35 6.1	N. 18 17.9	+ 6 13.1
2	8 19 39.6	19 13.6	6 19.5	2	8 35 25.8	18 16.7	6 12.9
4	8 19 59.3	19 12.5	6 19.5	4	8 35 45.5	18 15.5	6 12.7
6	8 20 19.0	19 11.3	6 19.4	6	8 36 5.2	18 14.3	6 12.4
8	8 20 38.8	19 10.1	6 19.3	8	8 36 25.0	18 13.0	6 12.1
10	8 20 58.5	19 9.0	6 19.3	10	8 36 44.7	18 11.8	6 11.9
12	8 21 18.2	19 7.9	6 19.3	12	8 37 4.4	18 10.6	6 11.7
14	8 21 37.9	19 6.7	6 19.2	14	8 37 24.1	18 9.3	6 11.4
16	8 21 57.6	19 5.5	6 19.1	16	8 37 43.8	18 8.0	6 11.1
18	8 22 17.3	19 4.4	6 19.1	18	8 38 3.6	18 6.8	6 10.9
20	8 22 37.0	19 3.3	6 19.0	20	8 38 23.3	18 5.6	6 10.6
22	8 22 56.7	N. 19 2.1	+ 6 18.9	22	8 38 43.0	18 4.3	6 10.3
<b>Friday 28.</b>				<b>Tuesday 29.</b>			
0	8 23 16.4	N. 19 0.9	+ 6 18.8	0	8 39 2.7	N. 18 3.0	+ 6 10.0
2	8 23 36.1	18 59.8	6 18.7				
4	8 23 55.8	18 58.7	6 18.6				
6	8 24 15.5	18 57.5	6 18.5				
8	8 24 35.3	18 56.3	6 18.4				
10	8 24 55.0	18 55.2	6 18.3				
12	8 25 14.7	18 54.0	6 18.2				
14	8 25 34.4	18 52.8	6 18.1				
16	8 25 54.1	18 51.6	6 18.0				
18	8 26 13.9	18 50.5	6 17.9				
20	8 26 33.6	18 49.3	6 17.8				
22	8 26 53.3	N. 18 48.1	+ 6 17.7				

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



AUGUST.

G.M.T.		R. A. M. S.		Declination.		Equation of time.		G.M.T.		R. A. M. S.		Declination.		Equation of time.	
<b>Tuesday 1.</b>															
h	h	m	s	°	'	m	s	h	h	m	s	°	'	m	s
0	8	39	2.7	N. 18	3.0	+	6 10.0	0	8	54	48.9	N. 17	0.4	+	5 51.4
2	8	39	22.4	18	1.8	6	9.7	2	8	55	8.6	16	59.1	5	50.9
4	8	39	42.1	18	0.6	6	9.4	4	8	55	28.3	16	57.8	5	50.4
6	8	40	1.8	17	59.3	6	9.1	6	8	55	48.0	16	56.4	5	49.9
8	8	40	21.6	17	58.0	6	8.8	8	8	56	7.8	16	55.0	5	49.4
10	8	40	41.3	17	56.8	6	8.5	10	8	56	27.5	16	53.7	5	48.9
12	8	41	1.0	17	55.5	6	8.2	12	8	56	47.2	16	52.3	5	48.4
14	8	41	20.7	17	54.2	6	7.9	14	8	57	6.9	16	50.9	5	47.9
16	8	41	40.4	17	52.9	6	7.6	16	8	57	26.6	16	49.5	5	47.4
18	8	42	0.1	17	51.7	6	7.3	18	8	57	46.3	16	48.2	5	46.9
20	8	42	19.8	17	50.4	6	7.0	20	8	58	6.0	16	46.8	5	46.4
22	8	42	39.5	N. 17	49.1	+	6 6.7	22	8	58	25.7	N. 16	45.4	+	5 45.9
<b>Wednesday 2.</b>															
0	8	42	59.2	N. 17	47.8	+	6 6.3	0	8	58	45.4	N. 16	44.0	+	5 45.3
2	8	43	18.9	17	46.5	6	6.0	2	8	59	5.1	16	42.7	5	44.8
4	8	43	38.6	17	45.2	6	5.7	4	8	59	24.8	16	41.3	5	44.3
6	8	43	58.3	17	43.9	6	5.3	6	8	59	44.5	16	39.9	5	43.7
8	8	44	18.1	17	42.6	6	4.9	8	9	0	4.3	16	38.5	5	43.1
10	8	44	37.8	17	41.3	6	4.6	10	9	0	24.0	16	37.2	5	42.6
12	8	44	57.5	17	40.0	6	4.3	12	9	0	43.7	16	35.8	5	42.0
14	8	45	17.2	17	38.7	6	3.9	14	9	1	3.4	16	34.4	5	41.4
16	8	45	36.9	17	37.4	6	3.5	16	9	1	23.1	16	33.0	5	40.8
18	8	45	56.7	17	36.1	6	3.2	18	9	1	42.9	16	31.6	5	40.3
20	8	46	16.4	17	34.8	6	2.8	20	9	2	2.6	16	30.2	5	39.7
22	8	46	36.1	N. 17	33.5	+	6 2.4	22	9	2	22.3	N. 16	28.8	+	5 39.1
<b>Thursday 3.</b>															
0	8	46	55.8	N. 17	32.2	+	6 2.0	0	9	2	42.0	N. 16	27.4	+	5 38.5
2	8	47	15.5	17	30.9	6	1.6	2	9	3	1.7	16	26.0	5	37.9
4	8	47	35.2	17	29.6	6	1.2	4	9	3	21.4	16	24.6	5	37.3
6	8	47	54.9	17	28.3	6	0.8	6	9	3	41.1	16	23.2	5	36.7
8	8	48	14.7	17	27.0	6	0.4	8	9	4	0.9	16	21.8	5	36.1
10	8	48	34.4	17	25.7	6	0.0	10	9	4	20.6	16	20.4	5	35.5
12	8	48	54.1	17	24.4	5	59.6	12	9	4	40.3	16	19.0	5	34.9
14	8	49	13.8	17	23.1	5	59.2	14	9	5	0.0	16	17.6	5	34.3
16	8	49	33.5	17	21.7	5	58.7	16	9	5	19.7	16	16.2	5	33.6
18	8	49	53.2	17	20.4	5	58.3	18	9	5	39.4	16	14.8	5	33.0
20	8	50	12.9	17	19.1	5	57.9	20	9	5	59.1	16	13.4	5	32.4
22	8	50	32.6	N. 17	17.8	+	5 57.5	22	9	6	18.8	N. 16	12.0	+	5 31.7
<b>Friday 4.</b>															
0	8	50	52.3	N. 17	16.4	+	5 57.0	0	9	6	38.5	N. 16	10.5	+	5 31.0
2	8	51	12.0	17	15.1	5	56.6	2	9	6	58.2	16	9.1	5	30.4
4	8	51	31.7	17	13.8	5	56.2	4	9	7	17.9	16	7.7	5	29.8
6	8	51	51.4	17	12.5	5	55.7	6	9	7	37.6	16	6.3	5	29.1
8	8	52	11.2	17	11.1	5	55.2	8	9	7	57.4	16	4.8	5	28.4
10	8	52	30.9	17	9.8	5	54.8	10	9	8	17.1	16	3.4	5	27.8
12	8	52	50.6	17	8.5	5	54.3	12	9	8	36.8	16	2.0	5	27.1
14	8	53	10.3	17	7.2	5	53.8	14	9	8	56.5	16	0.6	5	26.4
16	8	53	30.0	17	5.8	5	53.3	16	9	9	16.2	15	59.1	5	25.7
18	8	53	49.8	17	4.5	5	52.9	18	9	9	36.0	15	57.7	5	25.1
20	8	54	9.5	17	3.2	5	52.4	20	9	9	55.7	15	56.3	5	24.4
22	8	54	29.2	N. 17	1.8	+	5 51.9	22	9	10	15.4	N. 15	54.8	+	5 23.7

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

AUGUST.

G.M.T.		R. A. M. S.		Declination.		Equation of time.		G.M.T.		R. A. M. S.		Declination.		Equation of time.	
<b>Wednesday 9.</b>															
h	h	m	s	°	'	m	s	h	h	m	s	°	'	m	s
0	9	10	35.1	N. 15	53.3	+	5 23.0	0	9	26	21.3	N. 14	42.2	+	4 45.1
2	9	10	54.8	15	51.9	5	22.3	2	9	26	41.0	14	40.7	4	44.2
4	9	11	14.5	15	50.5	5	21.6	4	9	27	0.7	14	39.2	4	43.3
6	9	11	34.2	15	49.0	5	20.9	6	9	27	20.4	14	37.7	4	42.4
8	9	11	54.0	15	47.5	5	20.2	8	9	27	40.2	14	36.1	4	41.5
10	9	12	13.7	15	46.1	5	19.5	10	9	27	59.9	14	34.6	4	40.6
12	9	12	33.4	15	44.7	5	18.8	12	9	28	19.6	14	33.1	4	39.7
14	9	12	53.1	15	43.2	5	18.1	14	9	28	39.3	14	31.6	4	38.8
16	9	13	12.8	15	41.7	5	17.3	16	9	28	59.0	14	30.0	4	37.9
18	9	13	32.6	15	40.3	5	16.6	18	9	29	18.8	14	28.5	4	37.0
20	9	13	52.3	15	38.9	5	15.9	20	9	29	38.5	14	27.0	4	36.1
22	9	14	12.0	N. 15	37.4	+	5 15.2	22	9	29	58.2	N. 14	25.5	+	4 35.2
<b>Thursday 10.</b>															
0	9	14	31.7	N. 15	35.9	+	5 14.4	0	9	30	17.9	N. 14	23.9	+	4 34.2
2	9	14	51.4	15	34.5	5	13.7	2	9	30	37.6	14	22.4	4	33.3
4	9	15	11.1	15	33.1	5	13.0	4	9	30	57.3	14	20.9	4	32.4
6	9	15	30.8	15	31.6	5	12.2	6	9	31	17.0	14	19.3	4	31.4
8	9	15	50.6	15	30.1	5	11.4	8	9	31	36.8	14	17.7	4	30.4
10	9	16	10.3	15	28.7	5	10.7	10	9	31	56.5	14	16.2	4	29.5
12	9	16	30.0	15	27.2	5	9.9	12	9	32	16.2	14	14.7	4	28.6
14	9	16	49.7	15	25.7	5	9.1	14	9	32	35.9	14	13.1	4	27.6
16	9	17	9.4	15	24.2	5	8.3	16	9	32	55.6	14	11.5	4	26.6
18	9	17	29.1	15	22.8	5	7.6	18	9	33	15.3	14	10.0	4	25.7
20	9	17	48.8	15	21.3	5	6.8	20	9	33	35.0	14	8.5	4	24.8
22	9	18	8.5	N. 15	19.8	+	5 6.0	22	9	33	54.7	N. 14	6.9	+	4 23.8
<b>Friday 11.</b>															
0	9	18	28.2	N. 15	18.3	+	5 5.2	0	9	34	14.4	N. 14	5.3	+	4 22.8
2	9	18	47.9	15	16.9	5	4.4	2	9	34	34.1	14	3.8	4	21.9
4	9	19	7.6	15	15.4	5	3.6	4	9	34	53.8	14	2.2	4	20.9
6	9	19	27.3	15	13.9	5	2.8	6	9	35	13.5	14	0.6	4	19.9
8	9	19	47.1	15	12.4	5	2.0	8	9	35	33.3	13	59.0	4	18.9
10	9	20	6.8	15	10.9	5	1.2	10	9	35	53.0	13	57.5	4	17.9
12	9	20	26.5	15	9.4	5	0.4	12	9	36	12.7	13	55.9	4	16.9
14	9	20	46.2	15	7.9	4	59.6	14	9	36	32.4	13	54.3	4	15.9
16	9	21	5.9	15	6.4	4	58.7	16	9	36	52.1	13	52.7	4	14.9
18	9	21	25.7	15	4.9	4	57.9	18	9	37	11.9	13	51.2	4	13.9
20	9	21	45.4	15	3.4	4	57.1	20	9	37	31.6	13	49.6	4	12.9
22	9	22	5.1	N. 15	1.9	+	4 56.3	22	9	37	51.3	N. 13	48.0	+	4 11.9
<b>Saturday 12.</b>															
0	9	22	24.8	N. 15	0.4	+	4 55.4	0	9	38	11.0	N. 13	46.4	+	4 10.9
2	9	22	44.5	14	58.9	4	54.6	2	9	38	30.7	13	44.9	4	9.9
4	9	23	4.2	14	57.4	4	53.8	4	9	38	50.4	13	43.3	4	8.9
6	9	23	23.9	14	55.9	4	52.9	6	9	39	10.1	13	41.7	4	7.9
8	9	23	43.7	14	54.4	4	52.0	8	9	39	29.9	13	40.1</		



AUGUST.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Thursday 17.</b>				<b>Monday 21.</b>			
h	h m s	°	m s	h	h m s	°	m s
0	9 42 7.5	N. 13 27.4	+ 3 58.4	0	9 57 53.8	N. 12 9.1	+ 3 3.8
2	9 42 27.2	13 25.8	3 57.4	2	9 58 13.5	12 7.5	3 2.6
4	9 42 46.9	13 24.2	3 56.3	4	9 58 33.2	12 5.8	3 1.4
6	9 43 6.6	13 22.6	3 55.2	6	9 58 52.9	12 4.1	3 0.2
8	9 43 26.4	13 21.0	3 54.1	8	9 59 12.7	12 2.4	2 58.9
10	9 43 46.1	13 19.4	3 53.1	10	9 59 32.4	12 0.8	2 57.7
12	9 44 5.8	13 17.8	3 52.0	12	9 59 52.1	11 59.1	2 56.5
14	9 44 25.5	13 16.2	3 50.9	14	10 0 11.8	11 57.4	2 55.3
16	9 44 45.2	13 14.6	3 49.8	16	10 0 31.5	11 55.7	2 54.0
18	9 45 5.0	13 13.0	3 48.8	18	10 0 51.2	11 54.1	2 52.8
20	9 45 24.7	13 11.4	3 47.7	20	10 1 10.9	11 52.4	2 51.6
22	9 45 44.4	N. 13 9.8	+ 3 46.6	22	10 1 30.6	N. 11 50.7	+ 2 50.3
<b>Friday 18.</b>				<b>Tuesday 22.</b>			
0	9 46 4.1	N. 13 8.1	+ 3 45.5	0	10 1 50.3	N. 11 49.0	+ 2 49.0
2	9 46 23.8	13 6.5	3 44.4	2	10 2 10.0	11 47.4	2 47.8
4	9 46 43.5	13 4.9	3 43.3	4	10 2 29.7	11 45.7	2 46.6
6	9 47 3.2	13 3.3	3 42.2	6	10 2 49.4	11 44.0	2 45.3
8	9 47 23.0	13 1.7	3 41.1	8	10 3 9.2	11 42.3	2 44.0
10	9 47 42.7	13 0.1	3 40.0	10	10 3 28.9	11 40.7	2 42.8
12	9 48 2.4	12 58.5	3 38.9	12	10 3 48.6	11 39.0	2 41.5
14	9 48 22.1	12 56.9	3 37.8	14	10 4 8.3	11 37.3	2 40.2
16	9 48 41.8	12 55.2	3 36.6	16	10 4 28.0	11 35.6	2 38.9
18	9 49 1.5	12 53.6	3 35.5	18	10 4 47.8	11 33.9	2 37.7
20	9 49 21.2	12 52.0	3 34.4	20	10 5 7.5	11 32.2	2 36.4
22	9 49 40.9	N. 12 50.4	+ 3 33.3	22	10 5 27.2	N. 11 30.5	+ 2 35.1
<b>Saturday 19.</b>				<b>Wednesday 23.</b>			
0	9 50 0.6	N. 12 48.7	+ 3 32.1	0	10 5 46.9	N. 11 28.8	+ 2 33.8
2	9 50 20.3	12 47.1	3 31.0	2	10 6 6.6	11 27.1	2 32.5
4	9 50 40.0	12 45.5	3 29.9	4	10 6 26.3	11 25.4	2 31.2
6	9 50 59.7	12 43.9	3 28.7	6	10 6 46.0	11 23.7	2 29.9
8	9 51 19.5	12 42.2	3 27.5	8	10 7 5.8	11 22.0	2 28.6
10	9 51 39.2	12 40.6	3 26.4	10	10 7 25.5	11 20.3	2 27.3
12	9 51 58.9	12 39.0	3 25.3	12	10 7 45.2	11 18.6	2 26.0
14	9 52 18.6	12 37.3	3 24.1	14	10 8 4.9	11 16.9	2 24.7
16	9 52 38.3	12 35.6	3 22.9	16	10 8 24.6	11 15.2	2 23.4
18	9 52 58.1	12 34.0	3 21.8	18	10 8 44.3	11 13.5	2 22.1
20	9 53 17.8	12 32.4	3 20.6	20	10 9 4.0	11 11.8	2 20.8
22	9 53 37.5	N. 12 30.7	+ 3 19.4	22	10 9 23.7	N. 11 10.1	+ 2 19.5
<b>Sunday 20.</b>				<b>Thursday 24.</b>			
0	9 53 57.2	N. 12 29.0	+ 3 18.2	0	10 9 43.4	N. 11 8.3	+ 2 18.1
2	9 54 16.9	12 27.4	3 17.0	2	10 10 3.1	11 6.6	2 16.8
4	9 54 36.6	12 25.8	3 15.8	4	10 10 22.8	11 4.9	2 15.5
6	9 54 56.3	12 24.1	3 14.6	6	10 10 42.5	11 3.2	2 14.2
8	9 55 16.1	12 22.4	3 13.4	8	10 11 2.3	11 1.5	2 12.8
10	9 55 35.8	12 20.8	3 12.2	10	10 11 22.0	10 59.8	2 11.5
12	9 55 55.5	12 19.2	3 11.0	12	10 11 41.7	10 58.1	2 10.2
14	9 56 15.2	12 17.5	3 9.8	14	10 12 1.4	10 56.4	2 8.8
16	9 56 34.9	12 15.8	3 8.6	16	10 12 21.1	10 54.6	2 7.4
18	9 56 54.7	12 14.2	3 7.4	18	10 12 40.9	10 52.9	2 6.1
20	9 57 14.4	12 12.5	3 6.2	20	10 13 0.6	10 51.1	2 4.8
22	9 57 34.1	N. 12 10.8	+ 3 5.0	22	10 13 20.3	N. 10 49.4	+ 2 3.4

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

AUGUST.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Friday 25.</b>				<b>Tuesday 29.</b>			
h	h m s	°	m s	h	h m s	°	m s
0	10 13 40.0	N. 10 47.7	+ 2 2.0	0	10 29 26.2	N. 9 23.6	+ 0 53.9
2	10 13 59.7	10 46.0	2 0.7	2	10 29 45.9	9 21.9	0 52.4
4	10 14 19.4	10 44.3	1 59.4	4	10 30 5.6	9 20.1	0 50.9
6	10 14 39.1	10 42.6	1 58.0	6	10 30 25.3	9 18.3	0 49.4
8	10 14 58.9	10 40.8	1 56.6	8	10 30 45.1	9 16.5	0 47.9
10	10 15 18.6	10 39.1	1 55.3	10	10 31 4.8	9 14.8	0 46.4
12	10 15 38.3	10 37.4	1 53.9	12	10 31 24.5	9 13.0	0 44.9
14	10 15 58.0	10 35.7	1 52.5	14	10 31 44.2	9 11.2	0 43.4
16	10 16 17.7	10 33.9	1 51.1	16	10 32 3.9	9 9.4	0 41.9
18	10 16 37.4	10 32.2	1 49.8	18	10 32 23.6	9 7.6	0 40.4
20	10 16 57.1	10 30.5	1 48.4	20	10 32 43.3	9 5.8	0 38.9
22	10 17 16.8	N. 10 28.7	+ 1 47.0	22	10 33 3.0	N. 9 4.0	+ 0 37.4
<b>Saturday 26.</b>				<b>Wednesday 30.</b>			
0	10 17 36.5	N. 10 26.9	+ 1 45.6	0	10 33 22.7	N. 9 2.2	+ 0 35.9
2	10 17 56.2	10 25.2	1 44.2	2	10 33 42.4	9 0.4	0 34.4
4	10 18 15.9	10 23.5	1 42.8	4	10 34 2.1	8 58.6	0 32.9
6	10 18 35.6	10 21.8	1 41.4	6	10 34 21.8	8 56.8	0 31.4
8	10 18 55.4	10 20.0	1 40.0	8	10 34 41.6	8 55.0	0 29.9
10	10 19 15.1	10 18.3	1 38.6	10	10 35 1.3	8 53.2	0 28.4
12	10 19 34.8	10 16.6	1 37.2	12	10 35 21.0	8 51.4	0 26.9
14	10 19 54.5	10 14.8	1 35.8	14	10 35 40.7	8 49.6	0 25.4
16	10 20 14.2	10 13.0	1 34.4	16	10 36 0.4	8 47.8	0 23.8
18	10 20 34.0	10 11.3	1 33.0	18	10 36 20.2	8 46.0	0 22.3
20	10 20 53.7	10 9.6	1 31.6	20	10 36 39.9	8 44.2	0 20.8
22	10 21 13.4	N. 10 7.8	+ 1 30.2	22	10 36 59.6	N. 8 42.4	+ 0 19.3
<b>Sunday 27.</b>				<b>Thursday 31.</b>			
0	10 21 33.1	N. 10 6.0	+ 1 28.7	0	10 37 19.3	N. 8 40.6	+ 0 17.7
2	10 21 52.8	10 4.3	1 27.3	2	10 37 39.0	8 38.8	0 16.2
4	10 22 12.5	10 2.6	1 25.9	4	10 37 58.7	8 37.0	0 14.7
6	10 22 32.2	10 0.8	1 24.5	6	10 38 18.4	8 35.2	0 13.1
8	10 22 52.0	9 59.0	1 23.0	8	10 38 38.2	8 33.4	0 11.5
10	10 23 11.7	9 57.3	1 21.6	10	10 38 57.9	8 31.6	0 10.0
12	10 23 31.4	9 55.6	1 20.2	12	10 39 17.6	8 29.8	0 8.5
14	10 23 51.1	9 53.8	1 18.8	14	10 39 37.3	8 28.0	0 6.9
16	10 24 10.8	9 52.0	1 17.3	16	10 39 57.0	8 26.2	0 5.3
18	10 24 30.5	9 50.3	1 15.9	18	10 40 16.8	8 24.4	0 3.8
20	10 24 50.2	9 48.5	1 14.5	20	10 40 36.5	8 22.6	0 2.2
22	10 25 9.9	N. 9 46.7	+ 1 13.0	22	10 40 56.2	8 20.8	+ 0 0.6
<b>Monday 28.</b>							
0	10 25 29.6	N. 9 44.9	+ 1 11.5	0	10 41 15.9	N. 8 18.9	- 0 1.0
2	10 25 49.3	9 43.2	1 10.1				
4	10 26 9.0	9 41.4	1 8.7				
6	10 26 28.7	9 39.6	1 7.2				
8	10 26 48.5	9 37.8	1 5.7				
10	10 27 8.2	9 36.1	1 4.3				
12	10 27 27.9	9 34.3	1 2.8				
14	10 27 47.6	9 32.5	1 1.3				
16	10 28 7.3	9 30.7	0 59.8				
18	10 28 27.1	9 29.0	0 58.4				
20	10 28 46.8	9 27.2	0 56.9				
22	10 29 6.5	N. 9 25.4	+ 0 55.4				

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



SEPTEMBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Friday 1.</b>				<b>Tuesday 5.</b>			
h	h m s	°	m s	h	h m s	°	m s
0	10 41 15.9	N. 8 18.9	- 0 1.0	0	10 57 2.1	N. 6 50.8	- 1 18.3
2	10 41 35.6	8 17.1	0 2.5	2	10 57 21.8	6 49.0	- 1 19.9
4	10 41 55.3	8 15.3	0 4.1	4	10 57 41.5	6 47.2	- 1 21.5
6	10 42 15.0	8 13.5	0 5.7	6	10 58 1.2	6 45.3	- 1 23.2
8	10 42 34.8	8 11.6	0 7.3	8	10 58 21.0	6 43.4	- 1 24.9
10	10 42 54.5	8 9.8	0 8.8	10	10 58 40.7	6 41.6	- 1 26.5
12	10 43 14.2	8 8.0	0 10.4	12	10 59 0.4	6 39.8	- 1 28.2
14	10 43 33.9	8 6.2	0 12.0	14	10 59 20.1	6 37.9	- 1 29.9
16	10 43 53.6	8 4.3	0 13.6	16	10 59 39.8	6 36.0	- 1 31.6
18	10 44 13.3	8 2.5	0 15.1	18	10 59 59.5	6 34.2	- 1 33.2
20	10 44 33.0	8 0.7	0 16.7	20	11 0 19.2	6 32.3	- 1 34.9
22	10 44 52.7	N. 7 58.9	- 0 18.3	22	11 0 38.9	N. 6 30.4	- 1 36.6
<b>Saturday 2.</b>				<b>Wednesday 6.</b>			
0	10 45 12.4	N. 7 57.0	- 0 19.9	0	11 0 58.6	N. 6 28.5	- 1 38.3
2	10 45 32.1	7 55.2	0 21.5	2	11 1 18.3	6 26.7	- 1 39.9
4	10 45 51.8	7 53.4	0 23.1	4	11 1 38.0	6 24.9	- 1 41.6
6	10 46 11.5	7 51.6	0 24.7	6	11 1 57.7	6 23.0	- 1 43.3
8	10 46 31.3	7 49.7	0 26.3	8	11 2 17.5	6 21.1	- 1 45.0
10	10 46 51.0	7 47.9	0 27.9	10	11 2 37.2	6 19.3	- 1 46.7
12	10 47 10.7	7 46.1	0 29.5	12	11 2 56.9	6 17.4	- 1 48.4
14	10 47 30.4	7 44.3	0 31.1	14	11 3 16.6	6 15.5	- 1 50.1
16	10 47 50.1	7 42.4	0 32.7	16	11 3 36.3	6 13.6	- 1 51.8
18	10 48 9.9	7 40.6	0 34.3	18	11 3 56.1	6 11.8	- 1 53.5
20	10 48 29.6	7 38.8	0 35.9	20	11 4 15.8	6 9.9	- 1 55.2
22	10 48 49.3	N. 7 37.0	- 0 37.5	22	11 4 35.5	N. 6 8.0	- 1 56.9
<b>Sunday 3.</b>				<b>Thursday 7.</b>			
0	10 49 9.0	N. 7 35.1	- 0 39.1	0	11 4 55.2	N. 6 6.1	- 1 58.6
2	10 49 28.7	7 33.3	0 40.7	2	11 5 14.9	6 4.3	- 2 0.3
4	10 49 48.4	7 31.5	0 42.3	4	11 5 34.6	6 2.4	- 2 2.0
6	10 50 8.1	7 29.7	0 43.9	6	11 5 54.3	6 0.5	- 2 3.7
8	10 50 27.9	7 27.8	0 45.6	8	11 6 14.1	5 58.6	- 2 5.4
10	10 50 47.6	7 26.0	0 47.2	10	11 6 33.8	5 56.8	- 2 7.1
12	10 51 7.3	7 24.2	0 48.8	12	11 6 53.5	5 54.9	- 2 8.8
14	10 51 27.0	7 22.3	0 50.4	14	11 7 13.2	5 53.0	- 2 10.5
16	10 51 46.7	7 20.4	0 52.1	16	11 7 32.9	5 51.1	- 2 12.2
18	10 52 6.4	7 18.6	0 53.7	18	11 7 52.6	5 49.2	- 2 13.9
20	10 52 26.1	7 16.8	0 55.3	20	11 8 12.3	5 47.3	- 2 15.6
22	10 52 45.8	N. 7 14.9	- 0 56.9	22	11 8 32.0	N. 5 45.4	- 2 17.3
<b>Monday 4.</b>				<b>Friday 8.</b>			
0	10 53 5.5	N. 7 13.0	- 0 58.6	0	11 8 51.7	N. 5 43.5	- 2 19.0
2	10 53 25.2	7 11.2	- 1 0.2	2	11 9 11.4	5 41.7	- 2 20.7
4	10 53 44.9	7 9.4	- 1 1.8	4	11 9 31.1	5 39.8	- 2 22.4
6	10 54 4.6	7 7.5	- 1 3.4	6	11 9 50.8	5 37.9	- 2 24.1
8	10 54 24.4	7 5.6	- 1 5.1	8	11 10 10.6	5 36.0	- 2 25.8
10	10 54 44.1	7 3.8	- 1 6.7	10	11 10 30.3	5 34.2	- 2 27.5
12	10 55 3.8	7 2.0	- 1 8.3	12	11 10 50.0	5 32.3	- 2 29.2
14	10 55 23.5	7 0.1	- 1 10.0	14	11 11 9.7	5 30.4	- 2 30.9
16	10 55 43.2	6 58.2	- 1 11.7	16	11 11 29.4	5 28.5	- 2 32.7
18	10 56 3.0	6 56.4	- 1 13.3	18	11 11 49.2	5 26.6	- 2 34.4
20	10 56 22.7	6 54.6	- 1 14.9	20	11 12 8.9	5 24.7	- 2 36.1
22	10 56 42.4	N. 6 52.7	- 1 16.6	22	11 12 28.6	N. 5 22.8	- 2 37.8

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

SEPTEMBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Saturday 9.</b>				<b>Wednesday 13.</b>			
h	h m s	°	m s	h	h m s	°	m s
0	11 12 48.3	N. 5 20.9	- 2 39.6	0	11 28 34.5	N. 3 49.6	- 4 3.6
2	11 13 8.0	5 19.1	- 2 41.3	2	11 28 54.2	3 47.7	- 4 5.3
4	11 13 27.7	5 17.2	- 2 43.0	4	11 29 13.9	3 45.8	- 4 7.0
6	11 13 47.4	5 15.3	- 2 44.7	6	11 29 33.6	3 43.9	- 4 8.8
8	11 14 7.2	5 13.4	- 2 46.5	8	11 29 53.4	3 42.0	- 4 10.6
10	11 14 26.9	5 11.5	- 2 48.2	10	11 30 13.1	3 40.1	- 4 12.3
12	11 14 46.6	5 9.6	- 2 49.9	12	11 30 32.8	3 38.2	- 4 14.1
14	11 15 6.3	5 7.7	- 2 51.6	14	11 30 52.5	3 36.3	- 4 15.9
16	11 15 26.0	5 5.8	- 2 53.4	16	11 31 12.2	3 34.3	- 4 17.7
18	11 15 45.7	5 3.9	- 2 55.1	18	11 31 32.0	3 32.4	- 4 19.4
20	11 16 5.4	5 2.0	- 2 56.8	20	11 31 51.7	3 30.5	- 4 21.2
22	11 16 25.1	N. 5 0.1	- 2 58.6	22	11 32 11.4	N. 3 28.6	- 4 23.0
<b>Sunday 10.</b>				<b>Thursday 14.</b>			
0	11 16 44.8	N. 4 58.2	- 3 0.4	0	11 32 31.1	N. 3 26.6	- 4 24.8
2	11 17 4.5	4 56.3	- 3 2.1	2	11 32 50.8	3 24.7	- 4 26.5
4	11 17 24.2	4 54.4	- 3 3.8	4	11 33 10.5	3 22.8	- 4 28.2
6	11 17 43.9	4 52.5	- 3 5.6	6	11 33 30.2	3 20.9	- 4 30.0
8	11 18 3.7	4 50.6	- 3 7.4	8	11 33 50.0	3 19.0	- 4 31.8
10	11 18 23.4	4 48.7	- 3 9.1	10	11 34 9.7	3 17.1	- 4 33.5
12	11 18 43.1	4 46.8	- 3 10.8	12	11 34 29.4	3 15.2	- 4 35.3
14	11 19 2.8	4 44.9	- 3 12.6	14	11 34 49.1	3 13.3	- 4 37.1
16	11 19 22.5	4 43.0	- 3 14.4	16	11 35 8.8	3 11.3	- 4 38.9
18	11 19 42.3	4 41.1	- 3 16.1	18	11 35 28.5	3 9.4	- 4 40.6
20	11 20 2.0	4 39.2	- 3 17.8	20	11 35 48.2	3 7.5	- 4 42.4
22	11 20 21.7	N. 4 37.3	- 3 19.6	22	11 36 7.9	N. 3 5.6	- 4 44.2
<b>Monday 11.</b>				<b>Friday 15.</b>			
0	11 20 41.4	N. 4 35.4	- 3 21.4	0	11 36 27.6	N. 3 3.6	- 4 46.0
2	11 21 1.1	4 33.5	- 3 23.1	2	11 36 47.3	3 1.7	- 4 47.7
4	11 21 20.8	4 31.6	- 3 24.8	4	11 37 7.0	2 59.8	- 4 49.5
6	11 21 40.5	4 29.7	- 3 26.6	6	11 37 26.7	2 57.9	- 4 51.3
8	11 22 0.3	4 27.8	- 3 28.4	8	11 37 46.5	2 55.9	- 4 53.1
10	11 22 20.0	4 25.9	- 3 30.1	10	11 38 6.2	2 54.0	- 4 54.8
12	11 22 39.7	4 24.0	- 3 31.8	12	11 38 25.9	2 52.1	- 4 56.6
14	11 22 59.4	4 22.1	- 3 33.6	14	11 38 45.6	2 50.2	- 4 58.4
16	11 23 19.1	4 20.2	- 3 35.4	16	11 39 5.3	2 48.2	- 5 0.2
18	11 23 38.8	4 18.3	- 3 37.1	18	11 39 25.1	2 46.3	- 5 1.9
20	11 23 58.5	4 16.4	- 3 38.8	20	11 39 44.8	2 44.4	- 5 3.7
22	11 24 18.2	N. 4 14.5	- 3 40.6	22	11 40 4.5	N. 2 42.4	- 5 5.5
<b>Tuesday 12.</b>				<b>Saturday 16.</b>			
0	11 24 37.9	N. 4 12.6	- 3 42.4	0	11 40 24.2	N. 2 40.4	- 5 7.3
2	11 24 57.6	4 10.7	- 3 44.1	2	11 40 43.9	2 38.5	- 5 9.0
4	11 25 17.3	4 8.8	- 3 45.8	4	11 41 3.6	2 36.6	- 5 10.8
6	11 25 37.0	4 6.9	- 3 47.6	6	11 41 23.3	2 34.7	- 5 12.6
8	11 25 56.8	4 5.0	- 3 49.4	8	11 41 43.1	2 32.7	- 5 14.4
10	11 26 16.5	4 3.1	- 3 51.1	10	11 42 2.8	2 30.8	- 5 16.1
12	11 26 36.2	4 1.2	- 3 52.9	12	11 42 22.5	2 28.9	- 5 17.9
14	11 26 55.9	3 59.3	- 3 54.7	14	11 42 42.2	2 27.0	- 5 19.7
16	11 27 15.6	3 57.3	- 3 56.5	16	11 43 1.9	2 25.0	- 5 21.5
18	11 27 35.4	3 55.4	- 3 58.2	18	11 43 21.6	2 23.1	- 5 23.2
20	11 27 55.1	3 53.5	- 4 0.0	20	11 43 41.3	2 21.2	- 5 25.0
22	11 28 14.8	N. 3 51.6	- 4 1.8	22	11 44 1.0	N. 2 19.3	- 5 26.8

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



SEPTEMBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Sunday 17.</b>				<b>Thursday 21.</b>			
h	h	m	s	h	h	m	s
0	11	44	20.7	0	12	0	6.9
2	11	44	40.4	2	12	0	26.6
4	11	45	0.1	4	12	0	46.3
6	11	45	19.8	6	12	1	6.0
8	11	45	39.6	8	12	1	25.8
10	11	45	59.3	10	12	1	45.5
12	11	46	19.0	12	12	2	5.2
14	11	46	38.7	14	12	2	24.9
16	11	46	58.4	16	12	2	44.6
18	11	47	18.2	18	12	3	4.4
20	11	47	37.9	20	12	3	24.1
22	11	47	57.6	22	12	3	43.8
<b>Monday 18.</b>				<b>Friday 22.</b>			
0	11	48	17.3	0	12	4	3.5
2	11	48	37.0	2	12	4	23.2
4	11	48	56.7	4	12	4	42.9
6	11	49	16.4	6	12	5	2.6
8	11	49	36.2	8	12	5	22.4
10	11	49	55.9	10	12	5	42.1
12	11	50	15.6	12	12	6	1.8
14	11	50	35.3	14	12	6	21.5
16	11	50	55.0	16	12	6	41.2
18	11	51	14.7	18	12	7	0.9
20	11	51	34.4	20	12	7	20.6
22	11	51	54.1	22	12	7	40.3
<b>Tuesday 19.</b>				<b>Saturday 23.</b>			
0	11	52	13.8	0	12	8	0.0
2	11	52	33.5	2	12	8	19.7
4	11	52	53.2	4	12	8	39.4
6	11	53	12.9	6	12	8	59.1
8	11	53	32.7	8	12	9	18.9
10	11	53	52.4	10	12	9	38.6
12	11	54	12.1	12	12	9	58.3
14	11	54	31.8	14	12	10	18.0
16	11	54	51.5	16	12	10	37.7
18	11	55	11.3	18	12	10	57.5
20	11	55	31.0	20	12	11	17.2
22	11	55	50.7	22	12	11	36.9
<b>Wednesday 20.</b>				<b>Sunday 24.</b>			
0	11	56	10.4	0	12	11	56.6
2	11	56	30.1	2	12	12	16.3
4	11	56	49.8	4	12	12	36.0
6	11	57	9.5	6	12	12	55.7
8	11	57	29.3	8	12	13	15.5
10	11	57	49.0	10	12	13	35.2
12	11	58	8.7	12	12	13	54.9
14	11	58	28.4	14	12	14	14.6
16	11	58	48.1	16	12	14	34.3
18	11	59	7.8	18	12	14	54.0
20	11	59	27.5	20	12	15	13.7
22	11	59	47.2	22	12	15	33.4

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

SEPTEMBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Monday 25.</b>				<b>Friday 29.</b>			
h	h	m	s	h	h	m	s
0	12	15	53.1	0	12	31	39.3
2	12	16	12.8	2	12	31	59.0
4	12	16	32.5	4	12	32	18.7
6	12	16	52.2	6	12	32	38.4
8	12	17	12.0	8	12	32	58.2
10	12	17	31.7	10	12	33	17.9
12	12	17	51.4	12	12	33	37.6
14	12	18	11.1	14	12	33	57.3
16	12	18	30.8	16	12	34	17.0
18	12	18	50.6	18	12	34	36.8
20	12	19	10.3	20	12	34	56.5
22	12	19	30.0	22	12	35	16.2
<b>Tuesday 26.</b>				<b>Saturday 30.</b>			
0	12	19	49.7	0	12	35	35.9
2	12	20	9.4	2	12	35	55.6
4	12	20	29.1	4	12	36	15.3
6	12	20	48.8	6	12	36	35.0
8	12	21	8.6	8	12	36	54.8
10	12	21	28.3	10	12	37	14.5
12	12	21	48.0	12	12	37	34.2
14	12	22	7.7	14	12	37	53.9
16	12	22	27.4	16	12	38	13.6
18	12	22	47.1	18	12	38	33.4
20	12	23	6.8	20	12	38	53.1
22	12	23	26.5	22	12	39	12.8
<b>Wednesday 27.</b>				<b>Sunday 24.</b>			
0	12	23	46.2	0	12	39	32.5
2	12	24	5.9	2	12	39	52.2
4	12	24	25.6	4	12	40	11.9
6	12	24	45.3	6	12	40	31.6
8	12	25	5.1	8	12	40	51.3
10	12	25	24.8	10	12	41	1.0
12	12	25	44.5	12	12	41	20.7
14	12	26	4.2	14	12	41	40.4
16	12	26	23.9	16	12	42	1.0
18	12	26	43.7	18	12	42	20.7
20	12	27	3.4	20	12	42	40.4
22	12	27	23.1	22	12	43	1.0
<b>Thursday 28.</b>				<b>Monday 25.</b>			
0	12	27	42.8	0	12	15	53.1
2	12	28	2.5	2	12	16	12.8
4	12	28	22.2	4	12	16	32.5
6	12	28	41.9	6	12	16	52.2
8	12	29	1.7	8	12	17	12.0
10	12	29	21.4	10	12	17	31.7
12	12	29	41.1	12	12	17	51.4
14	12	30	0.8	14	12	18	11.1
16	12	30	20.5	16	12	18	30.8
18	12	30	40.2	18	12	18	50.6
20	12	30	59.9	20	12	19	10.3
22	12	31	19.6	22	12	19	30.0

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



OCTOBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Sunday 1.</b>				<b>Thursday 5.</b>			
h	h	m	s	h	h	m	s
0	12	39	32.5	0	12	55	18.7
2	12	39	52.2	2	12	55	38.4
4	12	40	11.9	4	12	55	58.1
6	12	40	31.6	6	12	56	17.8
8	12	40	51.4	8	12	56	37.6
10	12	41	11.1	10	12	56	57.3
12	12	41	30.8	12	12	57	17.0
14	12	41	50.5	14	12	57	36.7
16	12	42	10.2	16	12	57	56.4
18	12	42	29.9	18	12	58	16.1
20	12	42	49.6	20	12	58	35.8
22	12	43	9.3	22	12	58	55.5
<b>Monday 2.</b>				<b>Friday 6.</b>			
0	12	43	29.0	0	12	59	15.2
2	12	43	48.7	2	12	59	34.9
4	12	44	8.4	4	12	59	54.6
6	12	44	28.1	6	13	0	14.3
8	12	44	47.9	8	13	0	34.1
10	12	45	7.6	10	13	0	53.8
12	12	45	27.3	12	13	1	13.5
14	12	45	47.0	14	13	1	33.2
16	12	46	6.7	16	13	1	52.9
18	12	46	26.5	18	13	2	12.7
20	12	46	46.2	20	13	2	32.4
22	12	47	5.9	22	13	2	52.1
<b>Tuesday 3.</b>				<b>Saturday 7.</b>			
0	12	47	25.6	0	13	3	11.8
2	12	47	45.3	2	13	3	31.5
4	12	48	5.0	4	13	3	51.2
6	12	48	24.7	6	13	4	10.9
8	12	48	44.5	8	13	4	30.7
10	12	49	4.2	10	13	4	50.4
12	12	49	23.9	12	13	5	10.1
14	12	49	43.6	14	13	5	29.8
16	12	50	3.3	16	13	5	49.5
18	12	50	23.0	18	13	6	9.2
20	12	50	42.7	20	13	6	28.9
22	12	51	2.4	22	13	6	48.6
<b>Wednesday 4.</b>				<b>Sunday 8.</b>			
0	12	51	22.1	0	13	7	8.3
2	12	51	41.8	2	13	7	28.0
4	12	52	1.5	4	13	7	47.7
6	12	52	21.2	6	13	8	7.4
8	12	52	41.0	8	13	8	27.2
10	12	53	0.7	10	13	8	46.9
12	12	53	20.4	12	13	9	6.6
14	12	53	40.1	14	13	9	26.3
16	12	53	59.8	16	13	9	46.0
18	12	54	19.6	18	13	10	5.8
20	12	54	39.3	20	13	10	25.5
22	12	54	59.0	22	13	10	45.2

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

OCTOBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Monday 9.</b>				<b>Friday 13.</b>			
h	h	m	s	h	h	m	s
0	13	11	4.9	0	13	26	51.1
2	13	11	24.6	2	13	27	10.8
4	13	11	44.3	4	13	27	30.5
6	13	12	4.0	6	13	27	50.2
8	13	12	23.8	8	13	28	10.0
10	13	12	43.5	10	13	28	29.7
12	13	13	3.2	12	13	28	49.4
14	13	13	22.9	14	13	29	9.1
16	13	13	42.6	16	13	29	28.8
18	13	14	2.3	18	13	29	48.5
20	13	14	22.0	20	13	30	8.2
22	13	14	41.7	22	13	30	27.9
<b>Tuesday 10.</b>				<b>Saturday 14.</b>			
0	13	15	1.4	0	13	30	47.6
2	13	15	21.1	2	13	31	7.3
4	13	15	40.8	4	13	31	27.0
6	13	16	0.5	6	13	31	46.7
8	13	16	20.3	8	13	32	6.5
10	13	16	40.0	10	13	32	26.2
12	13	16	59.7	12	13	32	45.9
14	13	17	19.4	14	13	33	5.6
16	13	17	39.1	16	13	33	25.3
18	13	17	58.9	18	13	33	45.1
20	13	18	18.6	20	13	34	4.8
22	13	18	38.3	22	13	34	24.5
<b>Wednesday 11.</b>				<b>Sunday 15.</b>			
0	13	18	58.0	0	13	34	44.2
2	13	19	17.7	2	13	35	3.9
4	13	19	37.4	4	13	35	23.6
6	13	19	57.1	6	13	35	43.3
8	13	20	16.9	8	13	36	3.1
10	13	20	36.6	10	13	36	22.8
12	13	20	56.3	12	13	36	42.5
14	13	21	16.0	14	13	37	2.2
16	13	21	35.7	16	13	37	21.9
18	13	21	55.4	18	13	37	41.7
20	13	22	15.1	20	13	38	1.4
22	13	22	34.8	22	13	38	21.1
<b>Thursday 12.</b>				<b>Monday 16.</b>			
0	13	22	54.5	0	13	38	40.8
2	13	23	14.2	2	13	39	0.5
4	13	23	33.9	4	13	39	20.2
6	13	23	53.6	6	13	39	39.9
8	13	24	13.4	8	13	39	59.7
10	13	24	33.1	10	13	40	19.4
12	13	24	52.8	12	13	40	39.1
14	13	25	12.5	14	13	40	58.8
16	13	25	32.2	16	13	41	18.5
18	13	25	52.0	18	13	41	38.2
20	13	26	11.7	20	13	41	57.9
22	13	26	31.4	22	13	42	17.6

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



OCTOBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Tuesday 17.</b>				<b>Saturday 21.</b>			
h	h	m	s	h	h	m	s
0	13	42	37.3	0	13	58	23.5
2	13	42	57.0	2	13	58	43.2
4	13	43	16.7	4	13	59	2.9
6	13	43	36.4	6	13	59	22.6
8	13	43	56.2	8	13	59	42.4
10	13	44	15.9	10	14	0	2.1
12	13	44	35.6	12	14	0	21.8
14	13	44	55.3	14	14	0	41.5
16	13	45	15.0	16	14	1	1.2
18	13	45	34.8	18	14	1	21.0
20	13	45	54.5	20	14	1	40.7
22	13	46	14.2	22	14	2	0.4
<b>Wednesday 18.</b>				<b>Sunday 22.</b>			
0	13	46	33.9	0	14	2	20.1
2	13	46	53.6	2	14	2	39.8
4	13	47	13.3	4	14	2	59.5
6	13	47	33.0	6	14	3	19.2
8	13	47	52.8	8	14	3	39.0
10	13	48	12.5	10	14	3	58.7
12	13	48	32.2	12	14	4	18.4
14	13	48	51.9	14	14	4	38.1
16	13	49	11.6	16	14	4	57.8
18	13	49	31.3	18	14	5	17.5
20	13	49	51.0	20	14	5	37.2
22	13	50	10.7	22	14	5	56.9
<b>Thursday 19.</b>				<b>Monday 23.</b>			
0	13	50	30.4	0	14	6	16.6
2	13	50	50.1	2	14	6	36.3
4	13	51	9.8	4	14	6	56.0
6	13	51	29.5	6	14	7	15.7
8	13	51	49.3	8	14	7	35.5
10	13	52	9.0	10	14	7	55.2
12	13	52	28.7	12	14	8	14.9
14	13	52	48.4	14	14	8	34.6
16	13	53	8.1	16	14	8	54.3
18	13	53	27.9	18	14	9	14.1
20	13	53	47.6	20	14	9	33.8
22	13	54	7.3	22	14	9	53.5
<b>Friday 20.</b>				<b>Tuesday 24.</b>			
0	13	54	27.0	0	14	10	13.2
2	13	54	46.7	2	14	10	32.9
4	13	55	6.4	4	14	10	52.6
6	13	55	26.1	6	14	11	12.3
8	13	55	45.9	8	14	11	32.1
10	13	56	5.6	10	14	11	51.8
12	13	56	25.3	12	14	12	11.5
14	13	56	45.0	14	14	12	31.2
16	13	57	4.7	16	14	12	50.9
18	13	57	24.4	18	14	13	10.6
20	13	57	44.1	20	14	13	30.3
22	13	58	3.8	22	14	13	50.0

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

OCTOBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Wednesday 25.</b>				<b>Sunday 29.</b>			
h	h	m	s	h	h	m	s
0	14	14	9.7	0	14	29	56.0
2	14	14	29.4	2	14	30	15.7
4	14	14	49.1	4	14	30	35.4
6	14	15	8.8	6	14	30	55.1
8	14	15	28.6	8	14	31	14.9
10	14	15	48.3	10	14	31	34.6
12	14	16	8.0	12	14	31	54.3
14	14	16	27.7	14	14	32	14.0
16	14	16	47.4	16	14	32	33.7
18	14	17	7.2	18	14	32	53.4
20	14	17	26.9	20	14	33	13.1
22	14	17	46.6	22	14	33	32.8
<b>Thursday 26.</b>				<b>Monday 30.</b>			
0	14	18	6.3	0	14	33	52.5
2	14	18	26.0	2	14	34	12.2
4	14	18	45.7	4	14	34	31.9
6	14	19	5.4	6	14	34	51.6
8	14	19	25.2	8	14	35	11.4
10	14	19	44.9	10	14	35	31.1
12	14	20	4.6	12	14	35	50.8
14	14	20	24.3	14	14	36	10.5
16	14	20	44.0	16	14	36	30.2
18	14	21	3.8	18	14	36	50.0
20	14	21	23.5	20	14	37	9.7
22	14	21	43.2	22	14	37	29.4
<b>Friday 27.</b>				<b>Tuesday 31.</b>			
0	14	22	2.9	0	14	37	49.1
2	14	22	22.6	2	14	38	8.8
4	14	22	42.3	4	14	38	28.5
6	14	23	2.0	6	14	38	48.2
8	14	23	21.8	8	14	39	8.0
10	14	23	41.5	10	14	39	27.7
12	14	24	1.2	12	14	39	47.4
14	14	24	20.9	14	14	40	7.1
16	14	24	40.6	16	14	40	26.8
18	14	25	0.3	18	14	40	46.5
20	14	25	20.0	20	14	41	6.2
22	14	25	39.7	22	14	41	25.9
<b>Saturday 28.</b>				<b>Sunday 29.</b>			
0	14	25	59.4	0	14	37	49.1
2	14	26	19.1	2	14	38	8.8
4	14	26	38.8	4	14	38	28.5
6	14	26	58.5	6	14	38	48.2
8	14	27	18.3	8	14	39	8.0
10	14	27	38.0	10	14	39	27.7
12	14	27	57.7	12	14	39	47.4
14	14	28	17.4	14	14	40	7.1
16	14	28	37.1	16	14	40	26.8
18	14	28	56.9	18	14	40	46.5
20	14	29	16.6	20	14	41	6.2
22	14	29	36.3	22	14	41	25.9

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



NOVEMBER.

G.M.T.				R. A. M. S.				Declination.		Equation of time.	
h	m	s	°	'	°	'	°	'	m	s	
<b>Wednesday 1.</b>											
0	14	41	45.6	S.	14	25.4	-	16	19.4		
2	14	42	5.3		14	27.0		16	19.6		
4	14	42	25.0		14	28.6		16	19.7		
6	14	42	44.7		14	30.2		16	19.8		
8	14	43	4.5		14	31.8		16	19.9		
10	14	43	24.2		14	33.4		16	20.0		
12	14	43	43.9		14	35.0		16	20.1		
14	14	44	3.6		14	36.6		16	20.1		
16	14	44	23.3		14	38.2		16	20.3		
18	14	44	43.1		14	39.8		16	20.4		
20	14	45	2.8		14	41.4		16	20.5		
22	14	45	22.5	S.	14	43.0	-	16	20.5		
<b>Thursday 2.</b>											
0	14	45	42.2	S.	14	44.5	-	16	20.5		
2	14	46	1.9		14	46.1		16	20.6		
4	14	46	21.6		14	47.7		16	20.7		
6	14	46	41.3		14	49.3		16	20.7		
8	14	47	1.1		14	50.8		16	20.7		
10	14	47	20.8		14	52.4		16	20.8		
12	14	47	40.5		14	54.0		16	20.8		
14	14	48	0.2		14	55.6		16	20.8		
16	14	48	19.9		14	57.1		16	20.8		
18	14	48	39.6		14	58.7		16	20.8		
20	14	48	59.3		15	0.3		16	20.8		
22	14	49	19.0	S.	15	1.9	-	16	20.8		
<b>Friday 3.</b>											
0	14	49	38.7	S.	15	3.4	-	16	20.8		
2	14	49	58.4		15	5.0		16	20.8		
4	14	50	18.1		15	6.6		16	20.8		
6	14	50	37.8		15	8.1		16	20.8		
8	14	50	57.6		15	9.6		16	20.7		
10	14	51	17.3		15	11.2		16	20.7		
12	14	51	37.0		15	12.8		16	20.7		
14	14	51	56.7		15	14.3		16	20.7		
16	14	52	16.4		15	15.8		16	20.6		
18	14	52	36.2		15	17.4		16	20.6		
20	14	52	55.9		15	19.0		16	20.6		
22	14	53	15.6	S.	15	20.5	-	16	20.5		
<b>Saturday 4.</b>											
0	14	53	35.3	S.	15	22.0	-	16	20.4		
2	14	53	55.0		15	23.6		16	20.4		
4	14	54	14.7		15	25.2		16	20.3		
6	14	54	34.4		15	26.7		16	20.2		
8	14	54	54.2		15	28.2		16	20.1		
10	14	55	13.9		15	29.8		16	20.0		
12	14	55	33.6		15	31.3		16	19.9		
14	14	55	53.3		15	32.8		16	19.8		
16	14	56	13.0		15	34.3		16	19.7		
18	14	56	32.8		15	35.9		16	19.6		
20	14	56	52.5		15	37.4		16	19.5		
22	14	57	12.2	S.	15	38.9	-	16	19.3		
<b>Sunday 5.</b>											
0	14	57	31.9	S.	15	40.4	-	16	19.1		
2	14	57	51.6		15	42.0		16	19.0		
4	14	58	11.3		15	43.5		16	18.9		
6	14	58	31.0		15	45.0		16	18.7		
8	14	58	50.8		15	46.5		16	18.5		
10	14	59	10.5		15	48.1		16	18.4		
12	14	59	30.2		15	49.6		16	18.2		
14	14	59	49.9		15	51.1		16	18.0		
16	15	0	9.6		15	52.6		16	17.8		
18	15	0	29.3		15	54.1		16	17.6		
20	15	0	49.0		15	55.6		16	17.4		
22	15	1	8.7	S.	15	57.1	-	16	17.2		
<b>Monday 6.</b>											
0	15	1	28.4	S.	15	58.6	-	16	17.0		
2	15	1	48.1		16	0.1		16	16.8		
4	15	2	7.8		16	1.6		16	16.6		
6	15	2	27.5		16	3.1		16	16.4		
8	15	2	47.3		16	4.6		16	16.1		
10	15	3	7.0		16	6.1		16	15.9		
12	15	3	26.7		16	7.6		16	15.7		
14	15	3	46.4		16	9.1		16	15.4		
16	15	4	6.1		16	10.5		16	15.1		
18	15	4	25.9		16	12.0		16	14.9		
20	15	4	45.6		16	13.5		16	14.7		
22	15	5	5.3	S.	16	15.0	-	16	14.4		
<b>Tuesday 7.</b>											
0	15	5	25.0	S.	16	16.4	-	16	14.1		
2	15	5	44.7		16	17.9		16	13.8		
4	15	6	4.4		16	19.4		16	13.5		
6	15	6	24.1		16	20.9		16	13.2		
8	15	6	43.9		16	22.3		16	12.9		
10	15	7	3.6		16	23.8		16	12.6		
12	15	7	23.3		16	25.3		16	12.3		
14	15	7	43.0		16	26.8		16	12.0		
16	15	8	2.7		16	28.2		16	11.6		
18	15	8	22.4		16	29.7		16	11.3		
20	15	8	42.1		16	31.2		16	11.0		
22	15	9	1.8	S.	16	32.6	-	16	10.7		
<b>Wednesday 8.</b>											
0	15	9	21.5	S.	16	34.0	-	16	10.3		
2	15	9	41.2		16	35.5		16	10.0		
4	15	10	0.9		16	37.0		16	9.6		
6	15	10	20.6		16	38.4		16	9.2		
8	15	10	40.4		16	39.8		16	8.8		
10	15	11	0.1		16	41.3		16	8.5		
12	15	11	19.8		16	42.8		16	8.1		
14	15	11	39.5		16	44.2		16	7.7		
16	15	11	59.2		16	45.6		16	7.3		
18	15	12	19.0		16	47.1		16	6.9		
20	15	12	38.7		16	48.5		16	6.5		
22	15	12	58.4	S.	16	49.9	-	16	6.1		

The signs ± under Equation of Time denote *additive* or *subtractive* to Apparent Time and vice versa to Mean time.

NOVEMBER.

G.M.T.				R. A. M. S.				Declination.		Equation of time.	
h	m	s	°	'	°	'	°	'	m	s	
<b>Thursday 9.</b>											
0	15	13	18.1	S.	16	51.3	-	16	5.7		
2	15	13	37.8		16	52.8		16	5.3		
4	15	13	57.5		16	54.2		16	4.9		
6	15	14	17.2		16	55.6		16	4.5		
8	15	14	37.0		16	57.0		16	4.0		
10	15	14	56.7		16	58.5		16	3.6		
12	15	15	16.4		16	59.9		16	3.2		
14	15	15	36.1		17	1.3		16	2.7		
16	15	15	55.8		17	2.7		16	2.2		
18	15	16	15.5		17	4.2		16	1.8		
20	15	16	35.2		17	5.6		16	1.3		
22	15	16	54.9	S.	17	7.0	-	16	0.8		
<b>Friday 10.</b>											
0	15	17	14.6	S.	17	8.4	-	16	0.3		
2	15	17	34.3		17	9.8		15	59.8		
4	15	17	54.0		17	11.2		15	59.3		
6	15	18	13.7		17	12.6		15	58.8		
8	15	18	33.5		17	14.0		15	58.3		
10	15	18	53.2		17	15.4		15	57.8		
12	15	19	12.9		17	16.8		15	57.3		
14	15	19	32.6		17	18.2		15	56.8		
16	15	19	52.3		17	19.6		15	56.2		
18	15	20	12.1		17	21.0		15	55.7		
20	15	20	31.8		17	22.4		15	55.2		
22	15	20	51.5	S.	17	23.8	-	15	54.6		
<b>Saturday 11.</b>											
0	15	21	11.2	S.	17	25.1	-	15	54.0		
2	15	21	30.9		17	26.5		15	53.5		
4	15	21	50.6		17	27.9		15	52.9		
6	15	22	10.3		17	29.3		15	52.3		
8	15	22	30.1		17	30.6		15	51.7		
10	15	22	49.8		17	32.0		15	51.1		
12	15	23	9.5		17	33.4		15	50.5		
14	15	23	29.2		17	34.8		15	49.9		
16	15	23	48.9		17	36.1		15	49.3		
18	15	24	8.6		17	37.5		15	48.7		
20	15	24	28.3		17	38.9		15	48.1		
22	15	24	48.0	S.	17	40.2	-	15	47.5		
<b>Sunday 12.</b>											
0	15	25	7.7	S.	17	41.5	-	15	46.9		
2	15	25	27.4		17	42.9		15	46.3		
4	15	25	47.1		17	44.3		15	45.7		
6	15	26	6.8		17	45.6		15	45.0		
8	15	26	26.6		17	46.9		15	44.3		
10	15	26	46.3		17	48.3		15	43.7		
12	15	27	6.0		17	49.7		15	43.0		
14	15	27	25.7		17	51.0		15	42.3		
16	15	27	45.4		17						



NOVEMBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Friday 17.</b>				<b>Tuesday 21.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	15 44 50.5	S. 18 59.0	- 14 58.4	0	16 0 36.8	S. 19 54.9	- 14 4.2
2	15 45 10.2	19 0.3	14 57.4	2	16 0 56.5	19 56.0	14 3.0
4	15 45 29.9	19 1.5	14 56.4	4	16 1 16.2	19 57.1	14 1.7
6	15 45 49.6	19 2.7	14 55.4	6	16 1 35.9	19 58.2	14 0.4
8	15 46 9.4	19 3.9	14 54.4	8	16 1 55.7	19 59.3	13 59.1
10	15 46 29.1	19 5.1	14 53.4	10	16 2 15.4	20 0.4	13 57.8
12	15 46 48.8	19 6.3	14 52.4	12	16 2 35.1	20 1.5	13 56.5
14	15 47 8.5	19 7.5	14 51.4	14	16 2 54.8	20 2.6	13 55.2
16	15 47 28.2	19 8.7	14 50.3	16	16 3 14.5	20 3.7	13 53.9
18	15 47 48.0	19 9.9	14 49.3	18	16 3 34.2	20 4.8	13 52.5
20	15 48 7.7	19 11.1	14 48.3	20	16 3 53.9	20 5.9	13 51.3
22	15 48 27.4	S. 19 12.3	- 14 47.2	22	16 4 13.6	S. 20 7.0	- 13 50.0
<b>Saturday 18.</b>				<b>Wednesday 22.</b>			
0	15 48 47.1	S. 19 13.5	- 14 46.1	0	16 4 33.3	S. 20 8.0	- 13 48.6
2	15 49 6.8	19 14.7	14 45.1	2	16 4 53.0	20 9.1	13 47.3
4	15 49 26.5	19 15.9	14 44.0	4	16 5 12.7	20 10.2	13 46.0
6	15 49 46.2	19 17.1	14 42.9	6	16 5 32.4	20 11.3	13 44.6
8	15 50 6.0	19 18.3	14 41.8	8	16 5 52.2	20 12.3	13 43.2
10	15 50 25.7	19 19.5	14 40.7	10	16 6 11.9	20 13.4	13 41.9
12	15 50 45.4	19 20.7	14 39.6	12	16 6 31.6	20 14.5	13 40.5
14	15 51 5.1	19 21.9	14 38.5	14	16 6 51.3	20 15.6	13 39.1
16	15 51 24.8	19 23.0	14 37.4	16	16 7 11.0	20 16.6	13 37.7
18	15 51 44.5	19 24.2	14 36.3	18	16 7 30.8	20 17.7	13 36.4
20	15 52 4.2	19 25.4	14 35.2	20	16 7 50.5	20 18.8	13 35.0
22	15 52 23.9	S. 19 26.6	- 14 34.1	22	16 8 10.2	S. 20 19.8	- 13 33.6
<b>Sunday 19.</b>				<b>Thursday 23.</b>			
0	15 52 43.6	S. 19 27.7	- 14 33.0	0	16 8 29.9	S. 20 20.8	- 13 32.2
2	15 53 3.3	19 28.9	14 31.9	2	16 8 49.6	20 21.9	13 30.8
4	15 53 23.0	19 30.1	14 30.8	4	16 9 9.3	20 22.9	13 29.4
6	15 53 42.7	19 31.2	14 29.6	6	16 9 29.0	20 23.9	13 28.0
8	15 54 2.5	19 32.3	14 28.4	8	16 9 48.8	20 24.9	13 26.5
10	15 54 22.2	19 33.5	14 27.3	10	16 10 8.5	20 26.0	13 25.1
12	15 54 41.9	19 34.7	14 26.1	12	16 10 28.2	20 27.0	13 23.7
14	15 55 1.6	19 35.8	14 24.9	14	16 10 47.9	20 28.0	13 22.3
16	15 55 21.3	19 36.9	14 23.7	16	16 11 7.6	20 29.0	13 20.8
18	15 55 41.1	19 38.1	14 22.6	18	16 11 27.3	20 30.1	13 19.4
20	15 56 0.8	19 39.3	14 21.4	20	16 11 47.0	20 31.1	13 18.0
22	15 56 20.5	S. 19 40.4	- 14 20.2	22	16 12 6.7	S. 20 32.1	- 13 16.5
<b>Monday 20.</b>				<b>Friday 24.</b>			
0	15 56 40.2	S. 19 41.5	- 14 19.0	0	16 12 26.4	S. 20 33.1	- 13 15.0
2	15 56 59.9	19 42.7	14 17.8	2	16 12 46.1	20 34.1	13 13.6
4	15 57 19.6	19 43.8	14 16.6	4	16 13 5.8	20 35.1	13 12.1
6	15 57 39.3	19 44.9	14 15.4	6	16 13 25.5	20 36.1	13 10.6
8	15 57 59.1	19 46.0	14 14.1	8	16 13 45.3	20 37.1	13 9.1
10	15 58 18.8	19 47.2	14 12.9	10	16 14 5.0	20 38.1	13 7.6
12	15 58 38.5	19 48.3	14 11.7	12	16 14 24.7	20 39.1	13 6.1
14	15 58 58.2	19 49.4	14 10.5	14	16 14 44.4	20 40.1	13 4.6
16	15 59 17.9	19 50.5	14 9.2	16	16 15 4.1	20 41.1	13 3.1
18	15 59 37.7	19 51.6	14 8.0	18	16 15 23.9	20 42.1	13 1.6
20	15 59 57.4	19 52.7	14 6.8	20	16 15 43.6	20 43.1	13 0.1
22	16 0 17.1	S. 19 53.8	- 14 5.5	22	16 16 3.3	S. 20 44.1	- 12 58.6

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

NOVEMBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Saturday 25.</b>				<b>Wednesday 29.</b>			
h	h m s	° /	m s	h	h m s	° /	m s
0	16 16 23.0	S. 20 45.1	- 12 57.0	0	16 32 9.2	S. 21 29.0	- 11 37.7
2	16 16 42.7	20 46.1	12 55.5	2	16 32 28.9	21 29.9	11 36.0
4	16 17 2.4	20 47.1	12 54.0	4	16 32 48.6	21 30.8	11 34.2
6	16 17 22.1	20 48.1	12 52.4	6	16 33 8.3	21 31.6	11 32.4
8	16 17 41.9	20 49.0	12 50.8	8	16 33 28.1	21 32.4	11 30.6
10	16 18 1.6	20 50.0	12 49.3	10	16 33 47.8	21 33.3	11 28.8
12	16 18 21.3	20 51.0	12 47.7	12	16 34 7.5	21 34.1	11 27.0
14	16 18 41.0	20 51.9	12 46.1	14	16 34 27.2	21 34.9	11 25.2
16	16 19 0.7	20 52.8	12 44.5	16	16 34 46.9	21 35.7	11 23.4
18	16 19 20.4	20 53.8	12 43.0	18	16 35 6.7	21 36.6	11 21.6
20	16 19 40.1	20 54.8	12 41.4	20	16 35 26.4	21 37.4	11 19.8
22	16 19 59.8	S. 20 55.7	- 12 39.8	22	16 35 46.1	S. 21 38.2	- 11 18.0
<b>Sunday 26.</b>				<b>Thursday 30.</b>			
0	16 20 19.5	S. 20 56.6	- 12 38.2	0	16 36 5.8	S. 21 39.0	- 11 16.2
2	16 20 39.2	20 57.6	12 36.6	2	16 36 25.5	21 39.8	11 14.4
4	16 20 58.9	20 58.6	12 35.0	4	16 36 45.2	21 40.6	11 12.6
6	16 21 18.6	20 59.5	12 33.4	6	16 37 4.9	21 41.4	11 10.8
8	16 21 38.4	21 0.4	12 31.8	8	16 37 24.7	21 42.2	11 8.9
10	16 21 58.1	21 1.4	12 30.2	10	16 37 44.4	21 43.0	11 7.1
12	16 22 17.8	21 2.3	12 28.6	12	16 38 4.1	21 43.8	11 5.3
14	16 22 37.5	21 3.2	12 27.0	14	16 38 23.8	21 44.6	11 3.4
16	16 22 57.2	21 4.1	12 25.3	16	16 38 43.5	21 45.4	11 1.5
18	16 23 17.0	21 5.1	12 23.7	18	16 39 3.2	21 46.2	10 59.7
20	16 23 36.7	21 6.0	12 22.1	20	16 39 22.9	21 47.0	10 57.8
22	16 23 56.4	S. 21 6.9	- 12 20.5	22	16 39 42.6	21 47.8	10 55.9
<b>Monday 27.</b>				<b>Friday 24.</b>			
0	16 24 16.1	S. 21 7.8	- 12 18.8	0	16 12 26.4	S. 20 33.1	- 13 15.0
2	16 24 35.8	21 8.7	12 17.2	2	16 12 46.1	20 34.1	13 13.6
4	16 24 55.5	21 9.6	12 15.5	4	16 13 5.8	20 35.1	13 12.1
6	16 25 15.2	21 10.5	12 13.8	6	16 13 25.5	20 36.1	13 10.6
8	16 25 35.0	21 11.4	12 12.1	8	16 13 45.3	20 37.1	13 9.1
10	16 25 54.7	21 12.3	12 10.5	10	16 14 5.0	20 38.1	13 7.6
12	16 26 14.4	21 13.2	12 8.8	12	16 14 24.7	20 39.1	13 6.1
14	16 26 34.1	21 14.1	12 7.1	14	16 14 44.4	20 40.1	13 4.6
16	16 26 53.8	21 15.0	12 5.4	16	16 15 4.1	20 41.1	13 3.1
18	16 27 13.6	21 15.9	12 3.7	18	16 15 23.9	20 42.1	13 1.6
20	16 27 33.3	21 16.8	12 2.0	20	16 15 43.6	20 43.1	13 0.1
22	16 27 53.0	S. 21 17.7	- 12 0.3	22	16 16 3.3	S. 20 44.1	- 12 58.6
<b>Tuesday 28.</b>				<b>Friday 24.</b>			
0	16 28 12.7	S. 21 18.6	- 11 58.6	0	16 12 26.4	S. 20 33.1	- 13 15.0
2	16 28 32.4	21 19.5	11 56.9	2	16 12 46.1	20 34.1	13 13.6
4	16 28 52.1	21 20.4	11 55.2	4	16 13 5.8	20 35.1	13 12.1
6	16 29 11.8	21 21.3	11 53.5	6	16 13 25.5	20 36.1	13 10.6
8	16 29 31.6	21 22.1	11 51.7	8	16 13 45.3	20 37.1	13 9.1
10	16 29 51.3	21 23.0	11 50.0	10	16 14 5.0	20 38.1	13 7.6
12	16 30 11.0	21 23.9	11 48.3	12	16 14 24.7	20 39.1	13 6.1
14	16 30 30.7	21 24.8	11 46.5	14	16 14 44.4	20 40.1	13 4.6
16	16 30 50.4	21 25.6	11 44.7	16	16 15 4.1	20 41.1	13 3.1
18	16 31 10.1	21 26.5	11 43.0	18	16 15 23.9	20 42.1	13 1.6
20	16 31 29.8	21 27.4	11 41.3	20	16 15 43.6	20 43.1	13 0.1
22	16 31 49.5	S. 21 28.2	- 11 39.5	22	16 16 3.3	S. 20 44.1	- 12 58.6

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



DECEMBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Friday 1.</b>				<b>Tuesday 5.</b>			
h	h	m	s	h	h	m	s
0	16	40	2.3	0	16	55	48.6
2	16	40	22.0	2	16	56	8.3
4	16	40	41.7	4	16	56	28.0
6	16	41	1.4	6	16	56	47.7
8	16	41	21.2	8	16	57	7.5
10	16	41	40.9	10	16	57	27.2
12	16	42	0.6	12	16	57	46.9
14	16	42	20.3	14	16	58	6.6
16	16	42	40.0	16	16	58	26.3
18	16	42	59.8	18	16	58	46.0
20	16	43	19.5	20	16	59	5.7
22	16	43	39.2	22	16	59	25.4
<b>Saturday 2.</b>				<b>Wednesday 6.</b>			
0	16	43	58.9	0	16	59	45.1
2	16	44	18.6	2	17	0	4.8
4	16	44	38.3	4	17	0	24.5
6	16	44	58.0	6	17	0	44.2
8	16	45	17.8	8	17	1	4.0
10	16	45	37.5	10	17	1	23.7
12	16	45	57.2	12	17	1	43.4
14	16	46	16.9	14	17	2	3.1
16	16	46	36.6	16	17	2	22.8
18	16	46	56.3	18	17	2	42.6
20	16	47	16.0	20	17	3	2.3
22	16	47	35.7	22	17	3	22.0
<b>Sunday 3.</b>				<b>Thursday 7.</b>			
0	16	47	55.4	0	17	3	41.7
2	16	48	15.1	2	17	4	1.4
4	16	48	34.8	4	17	4	21.1
6	16	48	54.5	6	17	4	40.8
8	16	49	14.3	8	17	5	0.6
10	16	49	34.0	10	17	5	20.3
12	16	49	53.7	12	17	5	40.0
14	16	50	13.4	14	17	5	59.7
16	16	50	33.1	16	17	6	19.4
18	16	50	52.9	18	17	6	39.1
20	16	51	12.6	20	17	6	58.8
22	16	51	32.3	22	17	7	18.5
<b>Monday 4.</b>				<b>Friday 8.</b>			
0	16	51	52.0	0	17	7	38.2
2	16	52	11.7	2	17	7	57.9
4	16	52	31.4	4	17	8	17.6
6	16	52	51.1	6	17	8	37.3
8	16	53	10.9	8	17	8	57.1
10	16	53	30.6	10	17	9	16.8
12	16	53	50.3	12	17	9	36.5
14	16	54	10.0	14	17	9	56.2
16	16	54	29.7	16	17	10	15.9
18	16	54	49.4	18	17	10	35.7
20	16	55	9.1	20	17	10	55.4
22	16	55	28.8	22	17	11	15.1

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

DECEMBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Saturday 9.</b>				<b>Wednesday 13.</b>			
h	h	m	s	h	h	m	s
0	17	11	34.8	0	17	27	21.0
2	17	11	54.5	2	17	27	40.7
4	17	12	14.2	4	17	28	0.4
6	17	12	33.9	6	17	28	20.1
8	17	12	53.7	8	17	28	39.9
10	17	13	13.4	10	17	28	59.6
12	17	13	33.1	12	17	29	19.3
14	17	13	52.8	14	17	29	39.0
16	17	14	12.5	16	17	29	58.7
18	17	14	32.3	18	17	30	18.5
20	17	14	52.0	20	17	30	38.2
22	17	15	11.7	22	17	30	57.9
<b>Sunday 10.</b>				<b>Thursday 14.</b>			
0	17	15	31.4	0	17	31	17.6
2	17	15	51.1	2	17	31	37.3
4	17	16	10.8	4	17	31	57.0
6	17	16	30.5	6	17	32	16.7
8	17	16	50.3	8	17	32	36.5
10	17	17	10.0	10	17	32	56.2
12	17	17	29.7	12	17	33	15.9
14	17	17	49.4	14	17	33	35.6
16	17	18	9.1	16	17	33	55.3
18	17	18	28.8	18	17	34	15.0
20	17	18	48.5	20	17	34	34.7
22	17	19	8.2	22	17	34	54.4
<b>Monday 11.</b>				<b>Friday 15.</b>			
0	17	19	27.9	0	17	35	14.1
2	17	19	47.6	2	17	35	33.8
4	17	20	7.3	4	17	35	53.5
6	17	20	27.0	6	17	36	13.2
8	17	20	46.8	8	17	36	33.0
10	17	21	6.5	10	17	36	52.7
12	17	21	26.2	12	17	37	12.4
14	17	21	45.9	14	17	37	32.1
16	17	22	5.6	16	17	37	51.8
18	17	22	25.4	18	17	38	11.6
20	17	22	45.1	20	17	38	31.3
22	17	23	4.8	22	17	38	51.0
<b>Tuesday 12.</b>				<b>Saturday 16.</b>			
0	17	23	24.5	0	17	39	10.7
2	17	23	44.2	2	17	39	30.4
4	17	24	3.9	4	17	39	50.1
6	17	24	23.6	6	17	40	9.8
8	17	24	43.4	8	17	40	29.6
10	17	25	3.1	10	17	40	49.3
12	17	25	22.8	12	17	41	9.0
14	17	25	42.5	14	17	41	28.7
16	17	26	2.2	16	17	41	48.4
18	17	26	21.9	18	17	42	8.2
20	17	26	41.6	20	17	42	27.9
22	17	27	1.3	22	17	42	47.6

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



DECEMBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Sunday 17.</b>				<b>Thursday 21.</b>			
h	h	m	s	h	h	m	s
0	17	43	7.3	0	17	58	53.5
2	17	43	27.0	2	17	59	13.2
4	17	43	46.7	4	17	59	32.9
6	17	44	6.4	6	17	59	52.6
8	17	44	26.2	8	18	0	12.4
10	17	44	45.9	10	18	0	32.1
12	17	45	5.6	12	18	0	51.8
14	17	45	25.3	14	18	1	11.5
16	17	45	45.0	16	18	1	31.2
18	17	46	4.7	18	18	1	51.0
20	17	46	24.4	20	18	2	10.7
22	17	46	44.1	22	18	2	30.4
<b>Monday 18.</b>				<b>Friday 22.</b>			
0	17	47	3.8	0	18	2	50.1
2	17	47	23.5	2	18	3	9.8
4	17	47	43.2	4	18	3	29.5
6	17	48	2.9	6	18	3	49.2
8	17	48	22.7	8	18	4	9.0
10	17	48	42.4	10	18	4	28.7
12	17	49	2.1	12	18	4	48.4
14	17	49	21.8	14	18	5	8.1
16	17	49	41.5	16	18	5	27.8
18	17	50	1.3	18	18	5	47.5
20	17	50	21.0	20	18	6	7.2
22	17	50	40.7	22	18	6	26.9
<b>Tuesday 19.</b>				<b>Saturday 23.</b>			
0	17	51	0.4	0	18	6	46.6
2	17	51	20.1	2	18	7	6.3
4	17	51	39.8	4	18	7	26.0
6	17	51	59.5	6	18	7	45.7
8	17	52	19.3	8	18	8	5.5
10	17	52	39.0	10	18	8	25.2
12	17	52	58.7	12	18	8	44.9
14	17	53	18.4	14	18	9	4.6
16	17	53	38.1	16	18	9	24.3
18	17	53	57.8	18	18	9	44.1
20	17	54	17.5	20	18	10	3.8
22	17	54	37.2	22	18	10	23.5
<b>Wednesday 20.</b>				<b>Sunday 24.</b>			
0	17	54	56.9	0	18	10	43.2
2	17	55	16.6	2	18	11	2.9
4	17	55	36.3	4	18	11	22.6
6	17	55	56.0	6	18	11	42.3
8	17	56	15.8	8	18	12	2.1
10	17	56	35.5	10	18	12	21.8
12	17	56	55.2	12	18	12	41.5
14	17	57	14.9	14	18	13	1.2
16	17	57	34.6	16	18	13	20.9
18	17	57	54.4	18	18	13	40.6
20	17	58	14.1	20	18	14	0.3
22	17	58	33.8	22	18	14	20.0

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.

DECEMBER.

G.M.T.	R. A. M. S.	Declination.	Equation of time.	G.M.T.	R. A. M. S.	Declination.	Equation of time.
<b>Monday 25.</b>				<b>Friday 29.</b>			
h	h	m	s	h	h	m	s
0	18	14	39.7	0	18	30	26.0
2	18	14	59.4	2	18	30	45.7
4	18	15	19.1	4	18	31	5.4
6	18	15	38.8	6	18	31	25.1
8	18	15	58.6	8	18	31	44.9
10	18	16	18.3	10	18	32	4.6
12	18	16	38.0	12	18	32	24.3
14	18	16	57.7	14	18	32	44.0
16	18	17	17.4	16	18	33	3.7
18	18	17	37.2	18	18	33	23.4
20	18	17	56.9	20	18	33	43.1
22	18	18	16.6	22	18	34	2.8
<b>Tuesday 26.</b>				<b>Saturday 30.</b>			
0	18	18	36.3	0	18	34	22.5
2	18	18	56.0	2	18	34	42.2
4	18	19	15.7	4	18	35	1.9
6	18	19	35.4	6	18	35	21.6
8	18	19	55.2	8	18	35	41.4
10	18	20	14.9	10	18	36	1.1
12	18	20	34.6	12	18	36	20.8
14	18	20	54.3	14	18	36	40.5
16	18	21	14.0	16	18	37	0.2
18	18	21	33.7	18	18	37	20.0
20	18	21	53.4	20	18	37	39.7
22	18	22	13.1	22	18	37	59.4
<b>Wednesday 27.</b>				<b>Sunday 31.</b>			
0	18	22	32.8	0	18	38	19.1
2	18	22	52.5	2	18	38	38.8
4	18	23	12.2	4	18	38	58.5
6	18	23	31.9	6	18	39	18.2
8	18	23	51.7	8	18	39	38.0
10	18	24	11.4	10	18	39	57.7
12	18	24	31.1	12	18	40	17.4
14	18	24	50.8	14	18	40	37.1
16	18	25	10.5	16	18	40	56.8
18	18	25	30.3	18	18	41	16.5
20	18	25	50.0	20	18	41	36.2
22	18	26	9.7	22	18	41	55.9
<b>Thursday 28.</b>				<b>Monday 31.</b>			
0	18	26	29.4	0	18	42	15.6
2	18	26	49.1	2	18	42	35.3
4	18	27	8.8	4	18	42	55.0
6	18	27	28.5	6	18	42	14.7
8	18	27	48.3	8	18	42	34.4
10	18	28	8.0	10	18	42	54.1
12	18	28	27.7	12	18	42	13.8
14	18	28	47.4	14	18	42	33.5
16	18	29	7.1	16	18	42	53.2
18	18	29	26.9	18	18	42	12.9
20	18	29	46.6	20	18	42	32.6
22	18	30	6.3	22	18	42	52.3

The signs ± under Equation of Time denote additive or subtractive to Apparent Time and vice versa to Mean time.



JANUARY.

GREENWICH MEAN TIME.

Date.	Semidiameter.		Horizontal Parallax.		Meridian Passage.				Age.
	Noon.	Var. in 1 hour.	Noon.	Var. in 1 hour.	Upper.	Diff.	Lower.	Diff.	Noon.
	' "	" "	' "	" "	h m	m	h m	m	d
Sat. 1	16 22	0.5	59 56	2.0	21 8	m	8 37	m	25.8
Sun. 2	16 33	0.4	60 39	1.5	22 13	65	9 40	63	26.8
Mon. 3	16 41	0.2	61 9	0.9	23 20	67	10 47	67	27.8
Tues. 4	16 45	0.0	61 20	0.1	* *		11 53	64	28.8
Wed. 5	16 42	0.2	61 12	0.7	0 26		12 57	58	0.3
Thur. 6	16 35	0.4	60 45	1.5	1 27	61	13 55	53	1.3
Frid. 7	16 23	0.6	60 1	2.0	2 22	51	14 48	49	2.3
Sat. 8	16 8	0.6	59 8	2.3	3 13	47	15 37	46	3.3
Sun. 9	15 52	0.6	58 9	2.4	4 0	45	16 23	44	4.3
Mon. 10	15 37	0.6	57 12	2.3	4 45	44	17 7	44	5.3
Tues. 11	15 22	0.6	56 18	2.1	5 29	44	17 51	45	6.3
Wed. 12	15 10	0.5	55 33	1.7	6 13	46	18 36	46	7.3
Thur. 13	15 0	0.4	54 56	1.3	6 59	47	19 22	48	8.3
Frid. 14	14 52	0.3	54 29	0.9	7 46	49	20 10	50	9.3
Sat. 15	14 47	0.2	54 11	0.6	8 35	51	21 0	51	10.3
Sun. 16	14 45	0.1	54 2	0.2	9 26	50	21 51	51	11.3
Mon. 17	14 44	0.0	54 0	0.1	10 16	51	22 42	49	12.3
Tues. 18	14 46	0.1	54 5	0.3	11 7	48	23 31	48	13.3
Wed. 19	14 49	0.1	54 15	0.5	11 55	47	* *		14.3
Thur. 20	14 53	0.2	54 31	0.7	12 42	45	0 19	46	15.3
Frid. 21	14 58	0.2	54 50	0.8	13 27	43	1 5	43	16.3
Sat. 22	15 4	0.3	55 12	1.0	14 10	43	1 48	43	17.3
Sun. 23	15 11	0.3	55 39	1.2	14 53	42	2 31	43	18.3
Mon. 24	15 19	0.4	56 9	1.3	15 35	45	3 14	43	19.3
Tues. 25	15 29	0.4	56 42	1.5	16 20	47	3 57	46	20.3
Wed. 26	15 39	0.4	57 19	1.6	17 7	51	4 43	49	21.3
Thur. 27	15 50	0.5	57 59	1.7	17 58	56	5 32	53	22.3
Frid. 28	16 1	0.5	58 41	1.7	18 54	61	6 25	59	23.3
Sat. 29	16 12	0.4	59 21	1.6	19 55	64	7 24	63	24.3
Sun. 30	16 22	0.4	59 57	1.3	20 59	65	8 27	64	25.3
Mon. 31	16 29	0.3	60 25	0.9	22 4	62	9 31	64	26.3
Tues. 32	16 34	0.1	60 40	0.3	23 6		10 35		27.3

FEBRUARY.

GREENWICH MEAN TIME.

Date	Semidiameter.		Horizontal Parallax.		Meridian Passage.				Age.
	Noon.	Var. in 1 hour.	Noon.	Var. in 1 hour.	Upper.	Diff.	Lower.	Diff.	Noon.
	' "	" "	' "	" "	h m	m	h m	m	d
Tues. 1	16 34	0.1	60 40	0.3	23 6	m	10 35	m	27.3
Wed. 2	16 34	0.1	60 40	0.3	* *	58	11 36	61	28.3
Thur. 3	16 29	0.3	60 24	1.0	0 4	54	12 32	51	29.3
Frid. 4	16 20	0.4	59 52	1.6	0 58	50	13 23	49	0.8
Sat. 5	16 8	0.5	59 8	2.0	1 48	47	14 12	46	1.8
Sun. 6	15 54	0.6	58 16	2.2	2 35	46	14 58	46	2.8
Mon. 7	15 39	0.6	57 21	2.2	3 21	46	15 44	45	3.8
Tues. 8	15 25	0.6	56 29	2.1	4 7	46	16 29	47	4.8
Wed. 9	15 12	0.5	55 42	1.8	4 53	47	17 16	48	5.8
Thur. 10	15 2	0.4	55 4	1.4	5 40	49	18 4	50	6.8
Frid. 11	14 54	0.3	54 35	1.0	6 29	50	18 54	51	7.8
Sat. 12	14 49	0.2	54 16	0.6	7 19	51	19 45	50	8.8
Sun. 13	14 46	0.1	54 8	0.2	8 10	50	20 35	50	9.8
Mon. 14	14 47	0.1	54 9	0.2	9 0	50	21 25	49	10.8
Tues. 15	14 49	0.2	54 18	0.5	9 50	47	22 14	46	11.8
Wed. 16	14 54	0.2	54 34	0.8	10 37	46	23 0	45	12.8
Thur. 17	15 0	0.3	54 56	1.0	11 23	44	23 45	44	13.8
Frid. 18	15 7	0.3	55 22	1.1	12 7	44	* *	44	14.8
Sat. 19	15 14	0.3	55 50	1.2	12 51	43	0 29	43	15.8
Sun. 20	15 22	0.3	56 19	1.2	13 34	45	1 12	44	16.8
Mon. 21	15 30	0.3	56 48	1.2	14 19	46	1 56	45	17.8
Tues. 22	15 38	0.3	57 17	1.2	15 5	50	2 41	49	18.8
Wed. 23	15 46	0.3	57 45	1.2	15 55	54	3 30	51	19.8
Thur. 24	15 53	0.3	58 13	1.1	16 49	58	4 21	56	20.8
Frid. 25	16 0	0.3	58 39	1.0	17 47	61	5 17	60	21.8
Sat. 26	16 7	0.3	59 3	0.9	18 48	62	6 17	62	22.8
Sun. 27	16 13	0.2	59 24	0.8	19 50	62	7 19	62	23.8
Mon. 28	16 17	0.1	59 39	0.5	20 52	58	8 21	60	24.8
Tues. 29	16 19	0.0	59 47	0.1	21 50	54	9 21	57	25.8
Wed. 30	16 19	0.1	59 46	0.3	22 44		10 18		26.8



MARCH.

GREENWICH MEAN TIME

Date.	Semidiameter.		Horizontal Parallax.		Meridian Passage.				Age.	
	Noon.	Var. in 1 hour.	Noon.	Var. in 1 hour.	Upper.	Diff.	Lower.	Diff.		
	' "	" "	' "	" "	h m	m	h m	m	d	
Wed.	1	16 19	0.1	59 46	0.3	22 44	m	10 18	m	26.8
Thur.	2	16 15	0.2	59 34	0.8	23 35	51	11 10	52	27.8
Frid.	3	16 9	0.3	59 10	1.2	* *	49	12 0	50	28.8
Sat.	4	16 0	0.4	58 36	1.5	0 24		12 47	46	0.3
Sun.	5	15 49	0.5	57 56	1.8	1 10	46	13 33	47	1.3
Mon.	6	15 36	0.5	57 11	1.9	1 57	47	14 20	47	2.3
Tues.	7	15 24	0.5	56 25	1.8	2 43	48	15 7	49	3.3
Wed.	8	15 13	0.4	55 43	1.6	3 31	49	15 56	49	4.3
Thur.	9	15 3	0.4	55 7	1.3	4 20	51	16 45	51	5.3
Frid.	10	14 55	0.3	54 39	1.0	5 11	51	17 36	51	6.3
Sat.	11	14 50	0.1	54 21	0.5	6 2	50	18 27	50	7.3
Sun.	12	14 48	0.0	54 14	0.1	6 52	50	19 17	49	8.3
Mon.	13	14 49	0.1	54 16	0.3	7 42	48	20 6	48	9.3
Tues.	14	14 52	0.2	54 29	0.7	8 30	48	20 54	48	10.3
Wed.	15	14 58	0.3	54 51	1.0	9 17	47	21 39	45	11.3
Thur.	16	15 6	0.4	55 19	1.3	10 1	44	22 23	44	12.3
Frid.	17	15 15	0.4	55 53	1.5	10 45	44	23 7	44	13.3
Sat.	18	15 25	0.4	56 29	1.5	11 29	45	23 51	46	14.3
Sun.	19	15 35	0.4	57 5	1.5	12 14	47	* *		15.3
Mon.	20	15 44	0.4	57 39	1.3	13 1	49	0 37	48	16.3
Tues.	21	15 52	0.3	58 9	1.1	13 50	54	1 25	52	17.3
Wed.	22	15 59	0.3	58 33	0.9	14 44	58	2 17	55	18.3
Thur.	23	16 4	0.2	58 52	0.7	15 42	60	3 12	60	19.3
Frid.	24	16 8	0.1	59 5	0.4	16 42	62	4 12	61	20.3
Sat.	25	16 10	0.0	59 12	0.2	17 44	61	5 13	62	21.3
Sun.	26	16 10	0.0	59 15	0.0	18 45	58	6 15	62	22.3
Mon.	27	16 10	0.0	59 13	0.2	19 43	54	7 14	59	23.3
Tues.	28	16 8	0.1	59 6	0.4	20 37	51	8 10	53	24.3
Wed.	29	16 5	0.2	58 54	0.6	21 28	48	9 3	49	25.3
Thur.	30	16 0	0.2	58 37	0.8	22 16	46	9 52	47	26.3
Frid.	31	15 54	0.3	58 14	1.1	23 2	46	10 39	47	27.3
Sat.	32	15 46	0.4	57 46	1.3	23 48		11 25	46	28.3

APRIL.

GREENWICH MEAN TIME.

Date.	Semidiameter.		Horizontal Parallax.		Meridian Passage.				Age.	
	Noon.	Var. in 1 hour.	Noon.	Var. in 1 hour.	Upper.	Diff.	Lower.	Diff.		
	' "	" "	' "	" "	h m	m	h m	m	d	
Sat.	1	15 46	0.4	57 46	1.3	23 48	m	11 25	m	28.3
Sun.	2	15 37	0.4	57 13	1.4	* *	46	12 11	46	29.3
Mon.	3	15 27	0.4	56 38	1.5	0 34	48	12 58	47	0.8
Tues.	4	15 18	0.4	56 2	1.5	1 22	49	13 46	50	1.8
Wed.	5	15 8	0.4	55 28	1.3	2 11	50	14 36	51	2.8
Thur.	6	15 0	0.3	54 58	1.1	3 1	52	15 27	51	3.8
Frid.	7	14 54	0.2	54 35	0.8	3 53	51	16 18	51	4.8
Sat.	8	14 50	0.1	54 20	0.4	4 44	50	17 9	49	5.8
Sun.	9	14 48	0.0	54 14	0.0	5 34	48	17 58	48	6.8
Mon.	10	14 49	0.1	54 18	0.4	6 22	47	18 46	46	7.8
Tues.	11	14 53	0.2	54 33	0.8	7 9	45	19 32	44	8.8
Wed.	12	15 0	0.3	54 58	1.2	7 54	44	20 16	43	9.8
Thur.	13	15 9	0.4	55 32	1.5	8 38	43	20 59	44	10.8
Frid.	14	15 20	0.5	56 12	1.8	9 21	43	21 43	44	11.8
Sat.	15	15 33	0.5	56 57	1.9	10 5	47	22 28	45	12.8
Sun.	16	15 45	0.5	57 42	1.8	10 52	49	23 16	51	13.8
Mon.	17	15 57	0.5	58 25	1.7	11 41	53	* *	51	14.8
Tues.	18	16 7	0.4	59 2	1.3	12 34	58	0 7	55	15.8
Wed.	19	16 14	0.3	59 29	0.9	13 32	61	1 2	60	16.8
Thur.	20	16 19	0.1	59 46	0.5	14 33	64	2 2	63	17.8
Frid.	21	16 20	0.0	59 51	0.0	15 37	62	3 5	63	18.8
Sat.	22	16 19	0.1	59 46	0.4	16 39	59	4 8	61	19.8
Sun.	23	16 15	0.2	59 33	0.7	17 38	55	5 9	57	20.8
Mon.	24	16 10	0.3	59 13	0.9	18 33	52	6 6	53	21.8
Tues.	25	16 3	0.3	58 49	1.1	19 25	47	6 59	50	22.8
Wed.	26	15 56	0.3	58 22	1.1	20 12	46	7 49	47	23.8
Thur.	27	15 48	0.3	57 54	1.2	20 58	45	8 36	45	24.8
Frid.	28	15 40	0.3	57 25	1.2	21 43	46	9 21	45	25.8
Sat.	29	15 32	0.3	56 55	1.2	22 29	46	10 6	46	26.8
Sun.	30	15 24	0.3	56 26	1.2	23 15	48	10 52	47	27.8
Mon.	31	15 16	0.3	55 56	1.2	* *		11 39		28.8



MAY.

GREENWICH MEAN TIME.

Date.	Semidiameter.		Horizontal Parallax.		Meridian Passage.				Age.
	Noon.	Var. in 1 hour.	Noon.	Var. in 1 hour.	Upper.	Diff.	Lower.	Diff.	
	' "	"	' "	"	h m	m	h m	m	d
Mon. 1	15 16	0.3	55 56	1.2	* *		11 39	49	28.8
Tues. 2	15 8	0.3	55 28	1.1	0 3	50	12 28	51	0.3
Wed. 3	15 1	0.3	55 2	1.0	0 53	51	13 19	51	1.3
Thur. 4	14 55	0.2	54 39	0.8	1 44	52	14 10	51	2.3
Frid. 5	14 50	0.2	54 22	0.6	2 36	51	15 1	50	3.3
Sat. 6	14 47	0.1	54 11	0.3	3 27	49	15 51	48	4.3
Sun. 7	14 47	0.0	54 8	0.1	4 16	47	16 39	46	5.3
Mon. 8	14 48	0.1	54 15	0.5	5 3	44	17 25	44	6.3
Tues. 9	14 53	0.3	54 31	0.9	5 47	44	18 9	43	7.3
Wed. 10	15 0	0.4	54 57	1.3	6 31	43	18 52	43	8.3
Thur. 11	15 10	0.5	55 33	1.7	7 14	42	19 35	43	9.3
Frid. 12	15 22	0.5	56 17	2.0	7 56	45	20 18	46	10.3
Sat. 13	15 35	0.6	57 7	2.1	8 41	47	21 4	49	11.3
Sun. 14	15 50	0.6	58 0	2.2	9 28	51	21 53	54	12.3
Mon. 15	16 4	0.6	58 52	2.1	10 19	57	22 47	59	13.3
Tues. 16	16 17	0.5	59 39	1.7	11 16	61	23 46	63	14.3
Wed. 17	16 26	0.3	60 14	1.2	12 17	64	* *	63	15.3
Thur. 18	16 32	0.2	60 35	0.6	13 21	66	0 49	65	16.3
Frid. 19	16 34	0.0	60 41	0.1	14 27	62	1 54	65	17.3
Sat. 20	16 31	0.2	60 31	0.7	15 29	59	2 59	60	18.3
Sun. 21	16 25	0.3	60 7	1.2	16 28	53	3 59	56	19.3
Mon. 22	16 15	0.4	59 34	1.5	17 21	50	4 55	51	20.3
Tues. 23	16 5	0.4	58 55	1.7	18 11	46	5 46	48	21.3
Wed. 24	15 54	0.5	58 14	1.7	18 57	45	6 34	46	22.3
Thur. 25	15 42	0.5	57 33	1.7	19 42	45	7 20	44	23.3
Frid. 26	15 32	0.4	56 54	1.6	20 27	45	8 4	45	24.3
Sat. 27	15 22	0.4	56 19	1.4	21 12	47	8 49	47	25.3
Sun. 28	15 14	0.3	55 47	1.3	21 59	49	9 36	48	26.3
Mon. 29	15 6	0.3	55 19	1.1	22 48	51	10 24	49	27.3
Tues. 30	14 59	0.3	54 55	0.9	23 39	51	11 13	51	28.3
Wed. 31	14 54	0.2	54 35	0.8	* *	51	12 4	51	29.3
Thur. 32	14 49	0.2	54 18	0.6	0 30		12 55		0.7

JUNE.

GREENWICH MEAN TIME.

Date.	Semidiameter.		Horizontal Parallax.		Meridian Passage.				Age.
	Noon.	Var. in 1 hour.	Noon.	Var. in 1 hour.	Upper.	Diff.	Lower.	Diff.	
	' "	"	' "	"	h m	m	h m	m	d
Thur. 1	14 49	0.2	54 18	0.6	0 30	m	12 55	m	0.7
Frid. 2	14 46	0.1	54 7	0.4	1 21	51	13 46	51	1.7
Sat. 3	14 45	0.0	54 1	0.1	2 10	49	14 35	49	2.7
Sun. 4	14 45	0.1	54 2	0.2	2 58	45	15 21	44	3.7
Mon. 5	14 47	0.2	54 10	0.5	3 43	44	16 5	43	4.7
Tues. 6	14 52	0.3	54 27	0.9	4 27	42	16 48	42	5.7
Wed. 7	14 59	0.3	54 53	1.3	5 9	42	17 30	42	6.7
Thur. 8	15 8	0.4	55 28	1.6	5 51	42	18 12	43	7.7
Frid. 9	15 20	0.5	56 12	2.0	6 33	45	18 55	46	8.7
Sat. 10	15 34	0.6	57 3	2.2	7 18	48	19 41	50	9.7
Sun. 11	15 49	0.6	57 59	2.4	8 6	52	20 31	56	10.7
Mon. 12	16 5	0.6	58 56	2.3	8 58	59	21 27	61	11.7
Tues. 13	16 20	0.6	59 49	2.0	9 57	63	22 28	65	12.7
Wed. 14	16 32	0.4	60 33	1.5	11 0	66	23 33	66	13.7
Thur. 15	16 40	0.2	61 3	0.9	12 6	66	* *	66	14.7
Frid. 16	16 43	0.0	61 15	0.1	13 12	62	0 39	65	15.7
Sat. 17	16 41	0.2	61 8	0.7	14 14	58	1 44	60	16.7
Sun. 18	16 34	0.4	60 42	1.4	15 12	53	2 44	55	17.7
Mon. 19	16 24	0.5	60 3	1.8	16 5	48	3 39	50	18.7
Tues. 20	16 10	0.6	59 16	2.1	16 53	47	4 29	48	19.7
Wed. 21	15 56	0.6	58 24	2.2	17 40	45	5 17	46	20.7
Thur. 22	15 42	0.6	57 32	2.1	18 25	46	6 3	45	21.7
Frid. 23	15 29	0.5	56 44	1.9	19 11	46	6 48	46	22.7
Sat. 24	15 18	0.4	56 2	1.6	19 57	48	7 34	47	23.7
Sun. 25	15 8	0.4	55 26	1.4	20 45	50	8 21	49	24.7
Mon. 26	15 0	0.3	54 56	1.1	21 35	51	9 10	49	25.7
Tues. 27	14 53	0.2	54 33	0.8	22 26	51	10 0	50	26.7
Wed. 28	14 49	0.2	54 16	0.6	23 17	50	10 51	51	27.7
Thur. 29	14 45	0.1	54 4	0.4	* *	50	11 42	51	28.7
Frid. 30	14 44	0.0	53 58	0.2	0 7	48	12 31	49	0.1
Sat. 31	14 43	0.0	53 57	0.1	0 55		13 18		1.1



JULY.

GREENWICH MEAN TIME.

Date.	Semidiameter.		Horizontal Parallax.		Meridian Passage.				Age.
	Noon.	Var. in 1 hour.	Noon.	Var. in 1 hour.	Upper.	Diff.	Lower.	Diff.	
	' "	"	' "	"	h m	m	h m	m	d
Sat. 1	14 43	0.0	53 57	0.1	0 55	46	13 18	45	1.1
Sun. 2	14 45	0.1	54 1	0.3	1 41		14 3		2.1
Mon. 3	14 48	0.1	54 12	0.6	2 25	42	14 46	42	3.1
Tues. 4	14 52	0.2	54 29	0.9	3 7	42	15 28	41	4.1
Wed. 5	14 59	0.3	54 54	1.2	3 49	41	16 9	42	5.1
Thur. 6	15 8	0.4	55 26	1.5	4 30	43	16 51	44	6.1
Frid. 7	15 19	0.5	56 7	1.8	5 13	45	17 35	47	7.1
Sat. 8	15 32	0.6	56 54	2.1	5 58	49	18 22	51	8.1
Sun. 9	15 46	0.6	57 46	2.3	6 47	53	19 13	56	9.1
Mon. 10	16 1	0.6	58 42	2.3	7 40	60	20 9	62	10.1
Tues. 11	16 16	0.6	59 36	2.1	8 40	64	21 11	65	11.1
Wed. 12	16 29	0.5	60 25	1.8	9 44	65	22 16	66	12.1
Thur. 13	16 39	0.3	61 1	1.2	10 49	65	23 22	63	13.1
Frid. 14	16 45	0.1	61 21	0.4	11 54	61	* *		14.1
Sat. 15	16 45	0.1	61 21	0.4	12 55	57	0 25	59	15.1
Sun. 16	16 39	0.3	61 1	1.2	13 52	52	1 24	54	16.1
Mon. 17	16 29	0.5	60 25	1.8	14 44	49	2 18	51	17.1
Tues. 18	16 16	0.6	59 36	2.2	15 33	47	3 9	48	18.1
Wed. 19	16 1	0.6	58 40	2.4	16 20	47	3 57	47	19.1
Thur. 20	15 45	0.6	57 43	2.3	17 7	47	4 44	46	20.1
Frid. 21	15 30	0.6	56 49	2.1	17 54	48	5 30	48	21.1
Sat. 22	15 17	0.5	56 1	1.9	18 42		6 18		22.1
Sun. 23	15 6	0.4	55 20	1.5	19 31	49	7 7	49	23.1
Mon. 24	14 57	0.3	54 48	1.2	20 22	51	7 57	50	24.1
Tues. 25	14 51	0.2	54 24	0.8	21 13	50	8 47	51	25.1
Wed. 26	14 47	0.1	54 8	0.5	22 3	49	9 35	50	26.1
Thur. 27	14 44	0.1	54 0	0.2	22 52	47	10 28	48	27.1
Frid. 28	14 44	0.0	53 58	0.0	23 39	45	11 16	46	28.1
Sat. 29	14 45	0.1	54 2	0.3	* *		12 2	43	29.1
Sun. 30	14 47	0.1	54 11	0.5	0 24		12 45	43	0.4
Mon. 31	14 51	0.2	54 25	0.7	1 7	43	13 28	43	1.4
Tues. 32	14 56	0.3	54 44	0.9	1 48		14 9		2.4

AUGUST.

GREENWICH MEAN TIME.

Date.	Semidiameter.		Horizontal Parallax.		Meridian Passage.				Age.
	Noon.	Var. in 1 hour.	Noon.	Var. in 1 hour.	Upper.	Diff.	Lower.	Diff.	
	' "	"	' "	"	h m	m	h m	m	d
Tues. 1	14 56	0.3	54 44	0.9	1 48	42	14 9	41	2.4
Wed. 2	15 3	0.3	55 8	1.1	2 30	41	14 50	43	3.4
Thur. 3	15 11	0.4	55 38	1.4	3 11	44	15 33	45	4.4
Frid. 4	15 21	0.4	56 13	1.6	3 55	46	16 18	48	5.4
Sat. 5	15 31	0.5	56 53	1.8	4 41	51	17 6	53	6.4
Sun. 6	15 44	0.5	57 37	1.9	5 32	55	17 59	58	7.4
Mon. 7	15 57	0.5	58 25	2.0	6 27	60	18 57	61	8.4
Tues. 8	16 10	0.5	59 13	1.9	7 27	63	19 58	64	9.4
Wed. 9	16 22	0.5	59 57	1.7	8 30	64	21 2	63	10.4
Thur. 10	16 32	0.3	60 33	1.2	9 34	62	22 5	61	11.4
Frid. 11	16 38	0.2	60 56	0.6	10 36	59	23 6	56	12.4
Sat. 12	16 40	0.0	61 3	0.1	11 35	54	* *		13.4
Sun. 13	16 37	0.2	60 52	0.8	12 29	52	0 2	53	14.4
Mon. 14	16 29	0.4	60 23	1.5	13 21	49	0 55	51	15.4
Tues. 15	16 17	0.5	59 41	2.0	14 10	48	1 46	48	16.4
Wed. 16	16 3	0.6	58 49	2.3	14 58	49	2 34	48	17.4
Thur. 17	15 48	0.6	57 53	2.3	15 47	49	3 22	49	18.4
Frid. 18	15 33	0.6	56 57	2.2	16 36	50	4 11	49	19.4
Sat. 19	15 19	0.5	56 7	1.9	17 26	50	5 0	51	20.4
Sun. 20	15 7	0.4	55 24	1.6	18 16	52	5 51	51	21.4
Mon. 21	14 58	0.3	54 50	1.2	19 8	50	6 42	51	22.4
Tues. 22	14 51	0.2	54 25	0.8	19 58	50	7 33	50	23.4
Wed. 23	14 47	0.1	54 10	0.4	20 48	48	8 23	49	24.4
Thur. 24	14 45	0.0	54 4	0.1	21 36	45	9 12	47	25.4
Frid. 25	14 46	0.1	54 6	0.2	22 21	44	9 59	44	26.4
Sat. 26	14 48	0.1	54 15	0.5	23 5	42	10 43	43	27.4
Sun. 27	14 52	0.2	54 30	0.7	23 47	42	11 26	42	28.4
Mon. 28	14 58	0.3	54 49	0.9	* *		12 8	42	29.4
Tues. 29	15 4	0.3	55 12	1.0	0 29	42	12 50	42	0.8
Wed. 30	15 11	0.3	55 38	1.1	1 11	43	13 32	45	1.8
Thur. 31	15 19	0.3	56 6	1.2	1 54	46	14 17	47	2.8
Frid. 32	15 27	0.4	56 37	1.3	2 40		15 4		3.8



SEPTEMBER.

GREENWICH MEAN TIME.

Date.	Semidiameter.		Horizontal Parallax.		Meridian Passage.				Age.	
	Noon.	Var. in 1 hour.	Noon.	Var. in 1 hour.	Upper.	Diff.	Lower.	Diff.	Noon.	
	' "	"	' "	"	h m	m	h m	m	d	
Frid.	1	15 27	0.4	56 37	1.3	2 40	49	15 4	51	3.8
Sat.	2	15 36	0.4	57 10	1.4	3 29	53	15 55	55	4.8
Sun.	3	15 45	0.4	57 44	1.4	4 22	57	16 50	59	5.8
Mon.	4	15 55	0.4	58 19	1.5	5 19	60	17 49	61	6.8
Tues.	5	16 5	0.4	58 54	1.4	6 19	61	18 50	61	7.8
Wed.	6	16 14	0.3	59 27	1.3	7 20	61	19 51	60	8.8
Thur.	7	16 21	0.3	59 54	1.0	8 21	59	20 51	57	9.8
Frid.	8	16 26	0.1	60 13	0.5	9 20	55	21 48	53	10.8
Sat.	9	16 28	0.0	60 20	0.0	10 15	52	22 41	51	11.8
Sun.	10	16 26	0.1	60 14	0.6	11 7	50	23 32	50	12.8
Mon.	11	16 21	0.3	59 53	1.1	11 57	49	* *		13.8
Tues.	12	16 12	0.4	59 20	1.6	12 46	49	0 22	49	14.8
Wed.	13	16 0	0.5	58 37	1.9	13 35	50	1 11	49	15.8
Thur.	14	15 47	0.6	57 48	2.1	14 25	51	2 0	50	16.8
Frid.	15	15 33	0.6	56 57	2.0	15 16	52	2 50	52	17.8
Sat.	16	15 20	0.5	56 10	1.9	16 8	52	3 42	52	18.8
Sun.	17	15 8	0.4	55 28	1.6	17 0	51	4 34	52	19.8
Mon.	18	14 59	0.3	54 54	1.2	17 51	51	5 26	51	20.8
Tues.	19	14 52	0.2	54 29	0.8	18 42	48	6 17	49	21.8
Wed.	20	14 49	0.1	54 15	0.4	19 30	46	7 6	47	22.8
Thur.	21	14 47	0.0	54 11	0.0	20 16	45	7 53	46	23.8
Frid.	22	14 49	0.1	54 17	0.4	21 1	42	8 39	43	24.8
Sat.	23	14 53	0.2	54 31	0.7	21 43	43	9 22	43	25.8
Sun.	24	14 59	0.3	54 52	1.0	22 26	42	10 5	42	26.8
Mon.	25	15 6	0.3	55 18	1.2	23 8	43	10 47	42	27.8
Tues.	26	15 14	0.3	55 48	1.3	23 51	46	11 29	45	28.8
Wed.	27	15 22	0.4	56 19	1.3	* *	46	12 14	47	0.2
Thur.	28	15 31	0.4	56 50	1.3	0 37	49	13 1	50	1.2
Frid.	29	15 39	0.3	57 20	1.2	1 26	52	13 51	55	2.2
Sat.	30	15 47	0.3	57 48	1.1	2 18	56	14 46	58	3.2
Sun.	31	15 53	0.3	58 13	1.0	3 14		15 44		4.2

OCTOBER.

GREENWICH MEAN TIME.

Date.	Semidiameter.		Horizontal Parallax.		Meridian Passage.				Age.	
	Noon.	Var. in 1 hour.	Noon.	Var. in 1 hour.	Upper.	Diff.	Lower.	Diff.	Noon.	
	' "	"	' "	"	h m	m	h m	m	d	
Sun.	1	15 53	0.3	58 13	1.0	3 14	59	15 44	60	4.2
Mon.	2	16 0	0.3	58 36	0.9	4 13	61	16 44	60	5.2
Tues.	3	16 5	0.2	58 55	0.7	5 14	60	17 44	59	6.2
Wed.	4	16 9	0.1	59 11	0.6	6 14	57	18 43	56	7.2
Thur.	5	16 12	0.1	59 23	0.4	7 11	55	19 39	53	8.2
Frid.	6	16 14	0.0	59 29	0.1	8 6	51	20 32	50	9.2
Sat.	7	16 14	0.0	59 28	0.2	8 57	50	21 22	49	10.2
Sun.	8	16 12	0.1	59 20	0.5	9 47	50	22 11	49	11.2
Mon.	9	16 7	0.3	59 2	0.9	10 36	48	23 0	49	12.2
Tues.	10	16 0	0.4	58 36	1.3	11 24	50	23 49	50	13.2
Wed.	11	15 50	0.4	58 2	1.5	12 14	50	* *		14.2
Thur.	12	15 40	0.5	57 22	1.7	13 4	52	0 39	51	15.2
Frid.	13	15 28	0.5	56 41	1.7	13 56	53	1 30	53	16.2
Sat.	14	15 17	0.4	56 0	1.6	14 49	53	2 23	52	17.2
Sun.	15	15 7	0.4	55 23	1.4	15 42	51	3 15	53	18.2
Mon.	16	14 59	0.3	54 52	1.1	16 33	50	4 8	50	19.2
Tues.	17	14 53	0.2	54 30	0.7	17 23	47	4 58	48	20.2
Wed.	18	14 49	0.1	54 17	0.3	18 10	45	5 46	46	21.2
Thur.	19	14 48	0.0	54 15	0.1	18 55	43	6 32	44	22.2
Frid.	20	14 51	0.2	54 23	0.5	19 38	42	7 16	44	23.2
Sat.	21	14 56	0.3	54 41	0.9	20 20	42	7 59	42	24.2
Sun.	22	15 3	0.3	55 8	1.3	21 2	43	8 41	42	25.2
Mon.	23	15 12	0.4	55 42	1.5	21 45	45	9 23	44	26.2
Tues.	24	15 23	0.5	56 20	1.6	22 30	48	10 7	46	27.2
Wed.	25	15 34	0.4	57 0	1.6	23 18	52	10 53	50	28.2
Thur.	26	15 44	0.4	57 39	1.5	* *	55	11 43	55	29.2
Frid.	27	15 54	0.4	58 14	1.3	0 10	56	12 38	58	0.6
Sat.	28	16 1	0.3	58 42	1.0	1 6	60	13 36	61	1.6
Sun.	29	16 7	0.2	59 3	0.7	2 6	62	14 37	61	2.6
Mon.	30	16 11	0.1	59 16	0.4	3 8	61	15 38	60	3.6
Tues.	31	16 12	0.0	59 21	0.1	4 9	58	16 38	57	4.6
Wed.	32	16 12	0.0	59 20	0.2	5 7		17 35		5.6



NOVEMBER.

GREENWICH MEAN TIME.

Date.	Semidiameter.		Horizontal Parallax.		Meridian Passage.				Age.	
	Noon.	Var. in 1 hour.	Noon.	Var. in 1 hour.	Upper.	Diff.	Lower.	Diff.	Noon.	
	' "	"	' "	"	h m	m	h m	m	d	
Wed.	1	16 12	0.0	59 20	0.2	5 7	55	17 35	53	5.6
Thur.	2	16 10	0.1	59 13	0.4	6 2	51	18 28	53	6.6
Frid.	3	16 7	0.1	59 2	0.5	6 53	49	19 18	50	7.6
Sat.	4	16 3	0.2	58 47	0.7	7 42	48	20 6	48	8.6
Sun.	5	15 58	0.2	58 29	0.9	8 30	47	20 54	47	9.6
Mon.	6	15 52	0.3	58 6	1.0	9 17	48	21 41	49	10.6
Tues.	7	15 45	0.3	57 41	1.1	10 5	50	22 30	50	11.6
Wed.	8	15 37	0.4	57 12	1.3	10 55	51	23 20	52	12.6
Thur.	9	15 28	0.4	56 40	1.3	11 46	52	* *	52	13.6
Frid.	10	15 19	0.4	56 8	1.3	12 38	53	0 12	53	14.6
Sat.	11	15 11	0.4	55 36	1.3	13 31	53	1 5	53	15.6
Sun.	12	15 2	0.3	55 6	1.1	14 24	50	1 58	51	16.6
Mon.	13	14 56	0.2	54 42	0.9	15 14	49	2 49	50	17.6
Tues.	14	14 51	0.2	54 23	0.6	16 3	45	3 39	47	18.6
Wed.	15	14 48	0.1	54 13	0.2	16 48	44	4 26	44	19.6
Thur.	16	14 48	0.0	54 12	0.2	17 32	42	5 10	43	20.6
Frid.	17	14 50	0.2	54 22	0.6	18 14	41	5 53	41	21.6
Sat.	18	14 56	0.3	54 42	1.0	18 55	42	6 34	42	22.6
Sun.	19	15 4	0.4	55 12	1.4	19 37	43	7 16	42	23.6
Mon.	20	15 15	0.5	55 51	1.8	20 20	46	7 58	45	24.6
Tues.	21	15 27	0.5	56 36	2.0	21 6	51	8 43	48	25.6
Wed.	22	15 40	0.6	57 25	2.1	21 57	55	9 31	52	26.6
Thur.	23	15 54	0.5	58 15	2.0	22 52	59	10 23	58	27.6
Frid.	24	16 6	0.5	58 59	1.7	23 51	63	11 21	61	28.6
Sat.	25	16 16	0.4	59 36	1.3	* *	64	12 22	64	0.1
Sun.	26	16 23	0.2	60 1	0.8	0 54	64	13 26	63	1.1
Mon.	27	16 26	0.0	60 12	0.2	1 58	61	14 29	59	2.1
Tues.	28	16 25	0.1	60 9	0.4	2 59	58	15 28	56	3.1
Wed.	29	16 21	0.2	59 55	0.8	3 57	53	16 24	52	4.1
Thur.	30	16 15	0.3	59 32	1.1	4 50	50	17 16	48	5.1
Frid.	31	16 7	0.4	59 3	1.3	5 40		18 4		6.1

DECEMBER.

GREENWICH MEAN TIME.

Date.	Semidiameter.		Horizontal Parallax.		Meridian Passage.				Age.	
	Noon.	Var. in 1 hour.	Noon.	Var. in 1 hour.	Upper.	Diff.	Lower.	Diff.	Noon.	
	' "	"	' "	"	h m	m	h m	m	d	
Frid.	1	16 7	0.4	59 3	1.3	5 40	48	18 4	47	6.1
Sat.	2	15 58	0.4	58 31	1.4	6 28	47	18 51	47	7.1
Sun.	3	15 49	0.4	57 58	1.4	7 15	47	19 38	47	8.1
Mon.	4	15 40	0.4	57 26	1.3	8 2	48	20 25	49	9.1
Tues.	5	15 32	0.3	56 54	1.3	8 50	49	21 14	51	10.1
Wed.	6	15 24	0.3	56 24	1.2	9 39	51	22 5	52	11.1
Thur.	7	15 16	0.3	55 56	1.1	10 30	53	23 57	52	12.1
Frid.	8	15 9	0.3	55 29	1.1	11 23	53	23 49	52	13.1
Sat.	9	15 2	0.3	55 4	1.0	12 16	51	* *	51	14.1
Sun.	10	14 56	0.2	54 42	0.8	13 7	49	0 41	51	15.1
Mon.	11	14 51	0.2	54 24	0.6	13 56	47	1 32	48	16.1
Tues.	12	14 47	0.1	54 11	0.4	14 43	44	2 20	45	17.1
Wed.	13	14 46	0.0	54 5	0.1	15 27	42	3 5	43	18.1
Thur.	14	14 46	0.1	54 6	0.2	16 9	41	3 48	42	19.1
Frid.	15	14 49	0.2	54 16	0.6	16 50	41	4 30	40	20.1
Sat.	16	14 54	0.3	54 35	1.0	17 31	41	5 10	41	21.1
Sun.	17	15 2	0.4	55 5	1.4	18 12	44	5 51	43	22.1
Mon.	18	15 13	0.5	55 44	1.8	18 56	47	6 34	45	23.1
Tues.	19	15 26	0.6	56 32	2.1	19 43	52	7 19	49	24.1
Wed.	20	15 41	0.6	57 26	2.3	20 35	56	8 8	54	25.1
Thur.	21	15 56	0.6	58 23	2.3	21 31	62	9 2	59	26.1
Frid.	22	16 11	0.6	59 18	2.1	22 33	64	10 1	64	27.1
Sat.	23	16 24	0.5	60 6	1.7	23 37	64	11 5	64	28.1
Sun.	24	16 34	0.3	60 41	1.1	* *	64	12 9	64	29.1
Mon.	25	16 39	0.1	61 0	0.4	0 41	62	13 13	59	0.7
Tues.	26	16 39	0.1	61 0	0.4	1 43	58	14 12	56	1.7
Wed.	27	16 34	0.3	60 43	1.0	2 41	53	15 8	51	2.7
Thur.	28	16 26	0.4	60 11	1.5	3 34	50	15 59	49	3.7
Frid.	29	16 14	0.5	59 30	1.8	4 24	48	16 48	48	4.7
Sat.	30	16 2	0.5	58 43	2.0	5 12	48	17 36	47	5.7
Sun.	31	15 49	0.5	57 56	1.9	6 0	47	18 23	49	6.7
Mon.	32	15 36	0.5	57 11	1.8	6 47		19 12		7.7



JANUARY.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Saturday 1.</b>					
h	h m s	diff. ° /	h	h m s	diff. ° /
0	14 55 33	302 S. 22 7.0	0	19 19 29	324 S. 24 0.8
2	15 0 35	305	2	19 24 53	322
4	15 5 40	306	4	19 30 15	320
6	15 10 46	309	6	19 35 35	318
8	15 15 55	310	8	19 40 53	316
10	15 21 5	313	10	19 46 9	315
12	15 26 18	314	12	19 51 24	312
14	15 31 32	316	14	19 56 36	311
16	15 36 48	319	16	20 1 47	308
18	15 42 7	320	18	20 6 55	307
20	15 47 27	322	20	20 12 2	304
22	15 52 49	324	22	20 17 6	302
<b>Sunday 2.</b>					
0	15 58 13	326 S. 25 22.2	0	20 22 8	301 S. 19 55.0
2	16 3 39	327	2	20 27 9	298
4	16 9 6	328	4	20 32 7	296
6	16 14 34	331	6	20 37 3	295
8	16 20 5	331	8	20 41 58	292
10	16 25 36	333	10	20 46 50	290
12	16 31 9	334	12	20 51 40	288
14	16 36 43	336	14	20 56 28	287
16	16 42 19	336	16	21 1 15	284
18	16 47 55	338	18	21 5 59	282
20	16 53 33	338	20	21 10 41	281
22	16 59 11	339	22	21 15 22	278
<b>Monday 3.</b>					
0	17 4 50	339 S. 26 54.4	0	21 20 0	277 S. 14 38.9
2	17 10 29	341	2	21 24 37	274
4	17 16 10	340	4	21 29 11	273
6	17 21 50	341	6	21 33 44	271
8	17 27 31	341	8	21 38 15	270
10	17 33 12	341	10	21 42 45	268
12	17 38 53	341	12	21 47 13	266
14	17 44 35	341	14	21 51 39	264
16	17 50 16	341	16	21 56 3	263
18	17 55 57	340	18	22 0 26	261
20	18 1 37	340	20	22 4 47	260
22	18 7 17	339	22	22 9 7	258
<b>Tuesday 4.</b>					
0	18 12 56	339 S. 26 27.0	0	22 13 25	257 S. 8 42.9
2	18 18 35	338	2	22 17 42	255
4	18 24 13	337	4	22 21 57	254
6	18 29 50	336	6	22 26 11	253
8	18 35 26	335	8	22 30 24	252
10	18 41 1	334	10	22 34 36	250
12	18 46 35	333	12	22 38 46	249
14	18 52 8	333	14	22 42 55	248
16	18 57 39	331	16	22 47 3	247
18	19 3 9	330	18	22 51 10	246
20	19 8 37	328	20	22 55 16	245
22	19 14 4	327	22	22 59 21	245
24	19 19 29	325	24	23 3 25	244
<b>Wednesday 5.</b>					
<b>Thursday 6.</b>					
<b>Friday 7.</b>					
<b>Saturday 8.</b>					

JANUARY.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Sunday 9.</b>					
h	h m s	diff. ° /	h	h m s	diff. ° /
0	23 3 25	243 S. 2 32.8	0	2 12 31	242 N. 18 55.6
2	23 7 28	242	2	2 16 33	243
4	23 11 30	241	4	2 20 36	244
6	23 15 31	241	6	2 24 40	244
8	23 19 32	239	8	2 28 44	244
10	23 23 31	239	10	2 32 48	246
12	23 27 30	239	12	2 36 54	246
14	23 31 29	237	14	2 41 0	247
16	23 35 26	238	16	2 45 7	247
18	23 39 24	236	18	2 49 14	248
20	23 43 20	237	20	2 53 22	248
22	23 47 17	235	22	2 57 31	249
<b>Monday 10.</b>					
0	23 51 12	236 N. 3 31.5	0	3 1 41	250 N. 22 33.2
2	23 55 8	234	2	3 5 51	251
4	23 59 2	234	4	3 10 2	251
6	0 2 57	234	6	3 14 13	251
8	0 6 51	234	8	3 18 26	253
10	0 10 45	234	10	3 22 39	253
12	0 14 39	234	12	3 26 53	254
14	0 18 33	233	14	3 31 7	254
16	0 22 26	233	16	3 35 22	255
18	0 26 20	234	18	3 39 38	256
20	0 30 13	233	20	3 43 54	256
22	0 34 6	233	22	3 48 11	258
<b>Tuesday 11.</b>					
0	0 37 59	234 N. 9 15.1	0	3 52 29	258 N. 25 10.7
2	0 41 53	233	2	3 56 47	259
4	0 45 46	233	4	4 1 6	259
6	0 49 39	234	6	4 5 25	260
8	0 53 33	233	8	4 9 45	260
10	0 57 26	234	10	4 14 5	261
12	1 1 20	234	12	4 18 26	262
14	1 5 14	234	14	4 22 48	262
16	1 9 9	235	16	4 27 10	262
18	1 13 3	234	18	4 31 32	263
20	1 16 58	235	20	4 35 55	263
22	1 20 53	236	22	4 40 18	263
<b>Wednesday 12.</b>					
0	1 24 49	236 N. 14 26.5	0	4 44 41	264 N. 26 40.6
2	1 28 45	236	2	4 49 5	264
4	1 32 41	237	4	4 53 29	265
6	1 36 38	237	6	4 57 54	264
8	1 40 35	238	8	5 2 18	265
10	1 44 33	238	10	5 6 43	265
12	1 48 31	239	12	5 11 8	265
14	1 52 30	239	14	5 15 33	265
16	1 56 29	239	16	5 19 58	265
18	2 0 28	241	18	5 24 23	265
20	2 4 29	241	20	5 28 49	265
22	2 8 30	241	22	5 33 14	265
24	2 12 31	241	24	5 37 39	265
<b>Thursday 13.</b>					
<b>Friday 14.</b>					
<b>Saturday 15.</b>					
<b>Sunday 16.</b>					



JANUARY.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Monday 17.</b>					
h	h m s	diff. ° ' "	h	h m s	diff. ° ' "
0	5 37 39	N. 26 57.7	0	9 0 40	N. 16 32.6
2	5 42 5	266	2	9 4 37	237
4	5 46 30	265	4	9 8 33	236
6	5 50 55	265	6	9 12 28	235
8	5 55 20	264	8	9 16 23	235
10	5 59 44	265	10	9 20 17	234
12	6 4 9	264	12	9 24 10	233
14	6 8 33	264	14	9 28 3	233
16	6 12 57	264	16	9 31 55	232
18	6 17 20	263	18	9 35 47	232
20	6 21 43	263	20	9 39 38	231
22	6 26 6	262	22	9 43 29	231
<b>Tuesday 18.</b>					
0	6 30 28	N. 26 0.6	0	9 47 19	N. 11 42.1
2	6 34 50	262	2	9 51 9	230
4	6 39 12	261	4	9 54 58	229
6	6 43 33	260	6	9 58 47	229
8	6 47 53	260	8	10 2 36	228
10	6 52 13	259	10	10 6 24	228
12	6 56 32	259	12	10 10 12	228
14	7 0 51	258	14	10 13 59	227
16	7 5 9	258	16	10 17 47	227
18	7 9 27	257	18	10 21 34	226
20	7 13 44	256	20	10 25 20	226
22	7 18 0	255	22	10 29 7	227
<b>Wednesday 19.</b>					
0	7 22 15	N. 23 52.3	0	10 32 54	N. 6 20.0
2	7 26 30	254	2	10 36 40	226
4	7 30 44	253	4	10 40 26	226
6	7 34 57	253	6	10 44 12	226
8	7 39 10	252	8	10 47 58	227
10	7 43 22	251	10	10 51 45	226
12	7 47 33	250	12	10 55 31	226
14	7 51 43	250	14	10 59 17	226
16	7 55 53	250	16	11 3 3	226
18	8 0 2	249	18	11 6 50	227
20	8 4 9	247	20	11 10 36	226
22	8 8 17	246	22	11 14 23	227
<b>Thursday 20.</b>					
0	8 12 23	N. 20 39.7	0	11 18 10	N. 0 38.3
2	8 16 29	246	2	11 21 58	228
4	8 20 34	245	4	11 25 45	227
6	8 24 38	244	6	11 29 33	228
8	8 28 41	243	8	11 33 22	229
10	8 32 43	242	10	11 37 10	228
12	8 36 45	241	12	11 41 0	230
14	8 40 46	240	14	11 44 50	230
16	8 44 46	240	16	11 48 40	231
18	8 48 46	240	18	11 52 31	231
20	8 52 45	239	20	11 56 22	232
22	8 56 43	238	22	12 0 14	232
24	9 0 40	237	24	12 4 7	233
<b>Friday 21.</b>					
0	9 0 40	N. 16 32.6	0	11 18 10	N. 0 38.3
2	9 4 37	237	2	11 21 58	228
4	9 8 33	236	4	11 25 45	227
6	9 12 28	235	6	11 29 33	228
8	9 16 23	235	8	11 33 22	229
10	9 20 17	234	10	11 37 10	228
12	9 24 10	233	12	11 41 0	230
14	9 28 3	233	14	11 44 50	230
16	9 31 55	232	16	11 48 40	231
18	9 35 47	232	18	11 52 31	231
20	9 39 38	231	20	11 56 22	232
22	9 43 29	231	22	12 0 14	232
<b>Saturday 22.</b>					
0	9 47 19	N. 11 42.1	0	11 18 10	N. 0 38.3
2	9 51 9	230	2	11 21 58	228
4	9 54 58	229	4	11 25 45	227
6	9 58 47	229	6	11 29 33	228
8	10 2 36	228	8	11 33 22	229
10	10 6 24	228	10	11 37 10	228
12	10 10 12	228	12	11 41 0	230
14	10 13 59	227	14	11 44 50	230
16	10 17 47	227	16	11 48 40	231
18	10 21 34	226	18	11 52 31	231
20	10 25 20	226	20	11 56 22	232
22	10 29 7	227	22	12 0 14	233
<b>Sunday 23.</b>					
0	10 32 54	N. 6 20.0	0	11 18 10	N. 0 38.3
2	10 36 40	226	2	11 21 58	228
4	10 40 26	226	4	11 25 45	227
6	10 44 12	226	6	11 29 33	228
8	10 47 58	226	8	11 33 22	229
10	10 51 45	227	10	11 37 10	228
12	10 55 31	226	12	11 41 0	230
14	10 59 17	226	14	11 44 50	230
16	11 3 3	226	16	11 48 40	231
18	11 6 50	227	18	11 52 31	231
20	11 10 36	226	20	11 56 22	232
22	11 14 23	227	22	12 0 14	233
<b>Monday 24.</b>					
0	11 18 10	N. 0 38.3	0	11 18 10	N. 0 38.3
2	11 21 58	228	2	11 21 58	228
4	11 25 45	227	4	11 25 45	227
6	11 29 33	228	6	11 29 33	228
8	11 33 22	229	8	11 33 22	229
10	11 37 10	228	10	11 37 10	228
12	11 41 0	230	12	11 41 0	230
14	11 44 50	230	14	11 44 50	230
16	11 48 40	231	16	11 48 40	231
18	11 52 31	231	18	11 52 31	231
20	11 56 22	232	20	11 56 22	232
22	12 0 14	233	22	12 0 14	233
24	12 4 7	233	24	12 4 7	233

JANUARY.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Tuesday 25.</b>					
h	h m s	diff. ° ' "	h	h m s	diff. ° ' "
0	12 4 7	S. 5 10.6	0	15 35 39	S. 24 27.6
2	12 8 1	234	2	15 40 45	306
4	12 11 55	234	4	15 45 53	308
6	12 15 50	235	6	15 51 3	310
8	12 19 46	236	8	15 56 14	311
10	12 23 43	237	10	16 1 27	313
12	12 27 41	238	12	16 6 42	315
14	12 31 39	238	14	16 11 58	316
16	12 35 39	240	16	16 17 15	317
18	12 39 40	241	18	16 22 34	319
20	12 43 42	242	20	16 27 54	320
22	12 47 45	244	22	16 33 16	322
<b>Wednesday 26.</b>					
0	12 51 49	S. 10 53.2	0	16 38 38	S. 26 35.0
2	12 55 54	245	2	16 44 2	324
4	13 0 1	247	4	16 49 27	325
6	13 4 8	247	6	16 54 53	326
8	13 8 18	250	8	17 0 19	326
10	13 12 28	252	10	17 5 47	328
12	13 16 40	252	12	17 11 15	328
14	13 20 53	253	14	17 16 44	329
16	13 25 8	255	16	17 22 14	330
18	13 29 24	256	18	17 27 43	329
20	13 33 42	258	20	17 33 14	331
22	13 38 1	261	22	17 38 44	331
<b>Thursday 27.</b>					
0	13 42 22	S. 16 13.6	0	17 44 15	S. 26 55.4
2	13 46 45	263	2	17 49 46	331
4	13 51 9	264	4	17 55 17	331
6	13 55 35	266	6	18 0 47	330
8	14 0 3	268	8	18 6 18	331
10	14 4 32	269	10	18 11 48	330
12	14 9 3	271	12	18 17 18	330
14	14 13 36	273	14	18 22 47	329
16	14 18 11	275	16	18 28 16	329
18	14 22 47	276	18	18 33 44	328
20	14 27 26	279	20	18 39 12	328
22	14 32 6	282	22	18 44 38	326
<b>Friday 28.</b>					
0	14 36 48	S. 20 52.6	0	18 50 4	S. 25 21.1
2	14 41 32	284	2	18 55 17	326
4	14 46 18	286	4	19 0 47	326
6	14 51 5	287	6	19 6 18	326
8	14 55 55	290	8	19 11 48	326
10	15 0 46	291	10	19 17 18	325
12	15 5 40	294	12	19 22 47	325
14	15 10 35	295	14	19 28 16	324
16	15 15 32	297	16	19 33 44	324
18	15 20 31	299	18	19 39 12	323
20	15 25 32	301	20	19 44 38	323
22	15 30 35	303	22	19 50 4	322
24	15 35 39	304	24	19 56 17	322
<b>Saturday 29.</b>					
0	15 35 39	S. 24 27.6	0	16 38 38	S. 26 35.0
2	15 40 45	306	2	16 44 2	324
4	15 45 53	308	4	16 49 27	325
6	15 51 3	310	6	16 54 53	326
8	15 56 14	311	8	17 0 19	326
10	16 1 27	313	10	17 5 47	328
12	16 6 42	315	12	17 11 15	328
14	16 11 58	316	14	17 16 44	329
16	16 17 15	317	16	17 22 14	330
18	16 22 34	319	18	17 27 43	329
20	16 27 54	320	20	17 33 14	331
22	16 33 16	322	22	17 38 44	331
<b>Sunday 30.</b>					
0	16 38 38	S. 26 35.0	0	17 44 15	S. 26 55.4
2	16 44 2	324	2	17 49 46	331
4	16 49 27	325	4	17 55 17	331
6	16 54 53	326	6	18 0 47	330
8	17 0 19	326	8	18 6 18	331
10	17 5 47	328	10	18 11 48	330
12	17 11 15	328	12	18 17 18	330
14	17 16 44	329	14	18 22 47	329
16	17 22 14	330	16	18 28 16	329
18	17 27 43	329	18	18	



FEBRUARY.

G.M.T.	Right Ascension.				Declination.			
h	h	m	s	diff.	°	'	diff.	
<b>Tuesday 1.</b>								
0	18	50	4	325	S.	25	21.1	12.9
2	18	55	29	324		25	8.2	13.7
4	19	0	53	322		24	54.5	14.4
6	19	6	15	322		24	40.1	15.1
8	19	11	37	320		24	25.0	15.8
10	19	16	57	319		24	9.2	16.5
12	19	22	16	318		23	52.7	17.2
14	19	27	34	316		23	35.5	17.8
16	19	32	50	315		23	17.7	18.5
18	19	38	5	313		22	59.2	19.2
20	19	43	18	312		22	40.0	19.8
22	19	48	30	310	S.	22	20.2	20.4
<b>Wednesday 2.</b>								
0	19	53	40	309	S.	21	59.8	21.0
2	19	58	49	307		21	38.8	21.5
4	20	3	56	305		21	17.3	22.2
6	20	9	1	304		20	55.1	22.7
8	20	14	5	301		20	32.4	23.2
10	20	19	6	301		20	9.2	23.7
12	20	24	7	298		19	45.5	24.3
14	20	29	5	297		19	21.2	24.7
16	20	34	2	295		18	56.5	25.2
18	20	38	57	294		18	31.3	25.7
20	20	43	51	291		18	5.6	26.1
22	20	48	42	290	S.	17	39.5	26.5
<b>Thursday 3.</b>								
0	20	53	32	288	S.	17	13.0	26.9
2	20	58	20	287		16	46.1	27.2
4	21	3	7	285		16	18.9	27.7
6	21	7	52	283		15	51.2	28.0
8	21	12	35	281		15	23.2	28.3
10	21	17	16	280		14	54.9	28.6
12	21	21	56	277		14	26.3	29.2
14	21	26	34	277		13	57.3	29.0
16	21	31	11	275		13	28.1	29.5
18	21	35	46	273		12	58.6	29.7
20	21	40	19	272		12	28.9	30.0
22	21	44	51	270	S.	11	58.9	30.2
<b>Friday 4.</b>								
0	21	49	21	269	S.	11	28.7	30.4
2	21	53	50	268		10	58.3	30.5
4	21	58	18	266		10	27.8	30.8
6	22	2	44	265		9	57.0	30.9
8	22	7	9	263		9	26.1	31.0
10	22	11	32	262		8	55.1	31.2
12	22	15	54	261		8	23.9	31.3
14	22	20	15	260		7	52.6	31.3
16	22	24	35	258		7	21.3	31.5
18	22	28	53	258		6	49.8	31.5
20	22	33	11	256		6	18.3	31.6
22	22	37	27	255		5	46.7	31.6
24	22	41	42	255	S.	5	15.1	31.6
<b>Saturday 5.</b>								
0	22	41	42	254	S.	5	15.1	31.7
2	22	45	56	253		4	43.4	31.7
4	22	50	9	252		4	11.7	31.7
6	22	54	21	251		3	40.0	31.6
8	22	58	32	250		3	8.4	31.7
10	23	2	42	250		2	36.7	31.6
12	23	6	52	248		2	5.1	31.6
14	23	11	0	248		1	33.5	31.6
16	23	15	8	247		1	1.9	31.4
18	23	19	15	247	S.	0	30.5	31.4
20	23	23	22	247	N.	0	0.9	31.4
22	23	27	27	245	N.	0	32.2	31.3
<b>Sunday 6.</b>								
0	23	31	32	245	N.	1	3.5	31.1
2	23	35	37	244		1	34.6	31.0
4	23	39	41	243		2	5.6	30.8
6	23	43	44	243		2	36.4	30.8
8	23	47	47	242		3	7.2	30.6
10	23	51	50	242		3	37.8	30.4
12	23	55	52	241		4	8.2	30.3
14	23	59	54	241		4	38.5	30.1
16	0	3	55	241		5	8.6	30.0
18	0	7	56	241		5	38.6	29.7
20	0	11	57	241		6	8.3	29.6
22	0	15	58	240	N.	6	37.9	29.3
<b>Monday 7.</b>								
0	0	19	58	241	N.	7	7.2	29.1
2	0	23	59	240		7	36.3	29.0
4	0	27	59	240		8	5.3	28.7
6	0	31	59	240		8	34.0	28.4
8	0	35	59	240		9	2.4	28.2
10	0	39	59	240		9	30.6	28.0
12	0	43	59	240		9	58.6	27.7
14	0	47	59	240		10	26.3	27.5
16	0	51	59	240		10	53.8	27.2
18	0	55	59	241		11	21.0	26.9
20	1	0	0	240		11	47.9	26.6
22	1	4	0	241	N.	12	14.5	26.4
<b>Tuesday 8.</b>								
0	1	8	1	240	N.	12	40.9	26.0
2	1	12	1	240		13	6.9	25.8
4	1	16	3	241		13	32.7	25.4
6	1	20	4	241		13	58.1	25.2
8	1	24	5	242		14	23.3	24.8
10	1	28	7	242		14	48.1	24.5
12	1	32	10	242		15	12.6	24.1
14	1	36	12	243		15	36.7	23.8
16	1	40	15	243		16	0.5	23.5
18	1	44	18	244		16	24.0	23.2
20	1	48	22	244		16	47.2	22.7
22	1	52	26	244		17	9.9	22.5
24	1	56	31	245	N.	17	32.4	22.5

FEBRUARY.

G.M.T.	Right Ascension.				Declination.			
h	h	m	s	diff.	°	'	diff.	
<b>Wednesday 9.</b>								
0	1	56	31	245	N.	17	32.4	22.0
2	2	0	36	245		17	54.4	21.7
4	2	4	41	246		18	16.1	21.4
6	2	8	47	246		18	37.5	20.9
8	2	12	53	247		18	58.4	20.6
10	2	17	0	248		19	19.0	20.1
12	2	21	8	248		19	39.1	19.8
14	2	25	16	249		19	58.9	19.4
16	2	29	25	249		20	18.3	19.0
18	2	33	34	249		20	37.3	18.5
20	2	37	43	251		20	55.8	18.2
22	2	41	54	250	N.	21	14.0	17.7
<b>Thursday 10.</b>								
0	2	46	4	252	N.	21	31.7	17.4
2	2	50	16	252		21	49.1	16.9
4	2	54	28	252		22	6.0	16.4
6	2	58	40	252		22	22.4	16.0
8	3	2	53	253		22	38.4	15.6
10	3	7	7	254		22	54.0	15.2
12	3	11	21	254		23	9.2	14.7
14	3	15	36	255		23	23.9	14.2
16	3	19	51	255		23	38.1	13.8
18	3	24	7	256		23	51.9	13.3
20	3	28	24	257		24	5.2	12.9
22	3	32	41	258	N.	24	18.1	12.4
<b>Friday 11.</b>								
0	3	36	59	258	N.	24	30.5	11.9
2	3	41	17	258		24	42.4	11.5
4	3	45	35	260		24	53.9	10.9
6	3	49	55	260		25	4.8	10.5
8	3	54	14	259		25	15.3	10.1
10	3	58	34	261		25	25.4	9.5
12	4	2	55	261		25	34.9	9.0
14	4	7	16	261		25	43.9	8.6
16	4	11	37	262		25	52.5	8.0
18	4	15	59	262		26	0.5	7.6
20	4	20	21	263		26	8.1	7.0
22	4	24	44	263	N.	26	15.1	6.6
<b>Saturday 12.</b>								
0	4	29	7	263	N.	26	21.7	6.0
2	4	33	30	264		26	27.7	5.5
4	4	37	54	264		26	33.2	5.1
6	4	42	18	264		26	38.3	4.5
8	4	46	42	264		26	42.8	4.0
10	4	51	6	265		26	46.8	3.0
12	4	55	31	265		26	50.3	2.4
14	4	59	55	265		26	53.3	2.0
16	5	4	20	265		26	55.7	1.4
18	5	8	45	265		27	0.0	0.9
20	5	13	10	265		27	5.9	0.4
22	5	17	35	266	N.	27	0.4	0.4



FEBRUARY.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Thursday 17.</b>					
h	h m s	diff. °	h	h m s	diff. °
0	8 46 46	241 N. 17 50.1	0	11 52 58	234 S. 3 44.1
2	8 50 47	240	2	11 56 52	236
4	8 54 47	239	4	12 0 48	236
6	8 58 46	239	6	12 4 44	236
8	9 2 45	239	8	12 8 40	237
10	9 6 44	237	10	12 12 37	238
12	9 10 41	237	12	12 16 35	239
14	9 14 38	237	14	12 20 34	240
16	9 18 35	236	16	12 24 34	240
18	9 22 31	235	18	12 28 34	241
20	9 26 26	235	20	12 32 35	243
22	9 30 21	235	22	12 36 38	243
<b>Friday 18.</b>					
0	9 34 16	234 N. 13 8.8	0	12 40 41	244 S. 9 32.8
2	9 38 10	233	2	12 44 45	245
4	9 42 3	234	4	12 48 50	246
6	9 45 57	232	6	12 52 56	247
8	9 49 49	233	8	12 57 3	249
10	9 53 42	232	10	13 1 12	249
12	9 57 34	232	12	13 5 21	251
14	10 1 25	231	14	13 9 32	252
16	10 5 17	232	16	13 13 44	253
18	10 9 8	231	18	13 17 57	254
20	10 12 58	230	20	13 22 11	256
22	10 16 49	230	22	13 26 27	257
<b>Saturday 19.</b>					
0	10 20 39	230 N. 7 50.8	0	13 30 44	259 S. 15 0.8
2	10 24 29	230	2	13 35 3	259
4	10 28 19	230	4	13 39 22	261
6	10 32 9	230	6	13 43 43	263
8	10 35 59	229	8	13 48 6	264
10	10 39 48	230	10	13 52 30	265
12	10 43 38	230	12	13 56 55	267
14	10 47 28	230	14	14 1 22	269
16	10 51 17	229	16	14 5 51	270
18	10 55 7	229	18	14 10 21	272
20	10 58 56	229	20	14 14 53	273
22	11 2 46	230	22	14 19 26	274
<b>Sunday 20.</b>					
0	11 6 36	230 N. 2 8.7	0	14 24 0	277 S. 19 49.5
2	11 10 26	231	2	14 28 37	278
4	11 14 17	230	4	14 33 15	279
6	11 18 7	231	6	14 37 54	281
8	11 21 58	231	8	14 42 35	283
10	11 25 49	231	10	14 47 18	284
12	11 29 40	231	12	14 52 2	286
14	11 33 32	232	14	14 56 48	288
16	11 37 24	232	16	15 1 36	289
18	11 41 17	233	18	15 6 25	290
20	11 45 10	233	20	15 11 15	293
22	11 49 4	234	22	15 16 8	293
24	11 52 58	234	24	15 21 1	293
<b>Monday 21.</b>					
<b>Tuesday 22.</b>					
<b>Wednesday 23.</b>					
<b>Thursday 24.</b>					

FEBRUARY.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Friday 25.</b>					
h	h m s	diff. °	h	h m s	diff. °
0	15 21 1	296 S. 23 38.4	0	19 31 2	305 S. 23 21.0
2	15 25 57	297	2	19 36 7	304
4	15 30 54	298	4	19 41 11	303
6	15 35 52	300	6	19 46 14	301
8	15 40 52	301	8	19 51 15	300
10	15 45 53	303	10	19 56 15	299
12	15 50 56	304	12	20 1 14	297
14	15 56 0	305	14	20 6 11	296
16	16 1 5	307	16	20 11 7	294
18	16 6 12	308	18	20 16 1	293
20	16 11 20	309	20	20 20 54	291
22	16 16 29	310	22	20 25 45	290
<b>Saturday 26.</b>					
0	16 21 39	311 S. 26 6.7	0	19 31 2	305 S. 23 21.0
2	16 26 50	312	2	19 36 7	304
4	16 32 2	312	4	19 41 11	303
6	16 37 16	314	6	19 46 14	301
8	16 42 30	315	8	19 51 15	300
10	16 47 45	316	10	19 56 15	299
12	16 53 1	316	12	20 1 14	297
14	16 58 17	317	14	20 6 11	296
16	17 3 34	318	16	20 11 7	294
18	17 8 52	318	18	20 16 1	293
20	17 14 10	319	20	20 20 54	291
22	17 19 29	319	22	20 25 45	290
<b>Sunday 27.</b>					
0	17 24 48	319 S. 26 57.2	0	19 31 2	305 S. 23 21.0
2	17 30 7	320	2	19 36 7	304
4	17 35 27	320	4	19 41 11	303
6	17 40 47	319	6	19 46 14	301
8	17 46 6	320	8	19 51 15	300
10	17 51 26	320	10	19 56 15	299
12	17 56 46	319	12	20 1 14	297
14	18 2 5	319	14	20 6 11	296
16	18 7 24	319	16	20 11 7	294
18	18 12 43	318	18	20 16 1	293
20	18 18 1	318	20	20 20 54	291
22	18 23 19	318	22	20 25 45	290
<b>Monday 28.</b>					
0	18 28 37	317 S. 26 0.9	0	19 31 2	305 S. 23 21.0
2	18 33 54	316	2	19 36 7	304
4	18 39 10	315	4	19 41 11	303
6	18 44 25	315	6	19 46 14	301
8	18 49 40	314	8	19 51 15	300
10	18 54 54	313	10	19 56 15	299
12	19 0 7	312	12	20 1 14	297
14	19 5 19	311	14	20 6 11	296
16	19 10 30	309	16	20 11 7	294
18	19 15 39	308	18	20 16 1	293
20	19 20 48	308	20	20 20 54	291
22	19 25 56	306	22	20 25 45	290
24	19 31 2	306	24	20 30 35	290

G.M.T.	Right Ascension.	Declination.
<b>Tuesday 29.</b>		
h	h m s	diff. °
0	19 31 2	305 S. 23 21.0
2	19 36 7	304
4	19 41 11	303
6	19 46 14	301
8	19 51 15	300
10	19 56 15	299
12	20 1 14	297
14	20 6 11	296
16	20 11 7	294
18	20 16 1	293
20	20 20 54	291
22	20 25 45	290
24	20 30 35	290

PHASES OF THE MOON.

Feb.	Phase	h m
3	● New Moon	4 6
10	) First Quarter	10 20
18	○ Full Moon	14 29
25	( Last Quarter	21 24

Feb.	Event	h
1	( Perigee	12.1
13	( Apogee	9.4
29	( Perigee	8.7



MARCH.

G.M.T.					G.M.T.																					
Right Ascension.					Declination.					Right Ascension.					Declination.											
<b>Wednesday 1.</b>										<b>Sunday 5.</b>																
h	h	m	s	diff.	S.	o	'	diff.	h	h	m	s	diff.	N.	o	'	diff.	h	h	m	s	diff.	N.	o	'	diff.
0	20	30	35	289	S.	19	11.9	24.1	0	23	59	41	245	N.	4	32.8	30.3	0	23	19	3	260	N.	23	27.6	14.1
2	20	35	24	286		18	47.8	24.5	2	0	3	46	244		5	3.1	30.2	2	3	23	23	260		23	41.7	13.5
4	20	40	11	287		18	23.3	25.1	4	0	7	50	244		5	33.3	30.1	4	3	27	43	261		23	55.2	13.1
6	20	44	57	284		17	58.2	25.4	6	0	11	54	244		6	3.4	29.8	6	3	32	4	261		24	8.3	12.7
8	20	49	41	283		17	32.8	25.8	8	0	15	58	244		6	33.2	29.7	8	3	36	25	262		24	21.0	12.1
10	20	54	24	280		17	7.0	26.3	10	0	20	2	244		7	2.9	29.4	10	3	40	47	262		24	33.1	11.6
12	20	59	5	281		16	40.7	26.6	12	0	24	6	243		7	32.3	29.2	12	3	45	9	262		24	44.7	11.2
14	21	3	45	279		16	14.1	27.0	14	0	28	9	244		8	1.5	29.1	14	3	49	31	262		24	55.9	10.6
16	21	8	24	277		15	47.1	27.3	16	0	32	13	244		8	30.6	28.8	16	3	53	54	263		25	6.5	10.2
18	21	13	1	275		15	19.8	27.7	18	0	36	17	244		8	59.4	28.5	18	3	58	17	263		25	16.7	9.6
20	21	17	36	275		14	52.1	28.0	20	0	40	21	244		9	27.9	28.4	20	4	2	41	264		25	26.3	9.2
22	21	22	11	273	S.	14	24.1	28.3	22	0	44	25	244	N.	9	56.3	28.0	22	4	7	4	265		25	35.5	8.6
<b>Thursday 2.</b>										<b>Monday 6.</b>																
0	21	26	44	272	S.	13	55.8	28.6	0	0	48	30	244	N.	10	24.3	27.8	0	4	11	29	264	N.	25	44.1	8.2
2	21	31	16	270		13	27.2	28.9	2	0	52	34	245		10	52.1	27.6	2	4	15	53	265		25	52.3	7.6
4	21	35	46	269		12	58.3	29.2	4	0	56	39	244		11	19.7	27.2	4	4	20	18	265		25	59.9	7.1
6	21	40	15	268		12	29.1	29.4	6	1	0	43	245		11	46.9	27.0	6	4	24	43	265		26	7.0	6.6
8	21	44	43	267		11	59.7	29.6	8	1	4	48	246		12	13.9	26.7	8	4	29	8	265		26	13.6	6.1
10	21	49	10	266		11	30.1	29.8	10	1	8	54	245		12	40.6	26.4	10	4	33	33	265		26	19.7	5.6
12	21	53	36	264		11	0.3	30.1	12	1	12	59	245		13	7.0	26.1	12	4	37	59	266		26	25.3	5.0
14	21	58	0	263		10	30.2	30.3	14	1	17	5	246		13	33.1	25.8	14	4	42	25	266		26	30.3	4.6
16	22	2	23	262		9	59.9	30.4	16	1	21	11	247		13	58.9	25.4	16	4	46	51	266		26	34.9	4.0
18	22	6	45	261		9	29.5	30.6	18	1	25	18	247		14	24.3	25.1	18	4	51	17	266		26	38.9	3.5
20	22	11	6	260		8	58.9	30.7	20	1	29	24	248		14	49.4	24.8	20	4	55	43	266		26	42.4	3.0
22	22	15	26	259	S.	8	28.2	30.9	22	1	33	32	247	N.	15	14.2	24.5	22	5	0	9	266		26	45.4	2.4
<b>Friday 3.</b>										<b>Tuesday 7.</b>																
0	22	19	45	258	S.	7	57.3	31.0	0	1	37	39	248	N.	15	38.7	24.1	0	5	4	35	266	N.	26	47.8	2.0
2	22	24	3	257		7	26.3	31.2	2	1	41	47	248		16	2.8	23.7	2	5	9	1	266		26	49.8	1.4
4	22	28	20	256		6	55.1	31.2	4	1	45	55	249		16	26.5	23.4	4	5	13	27	266		26	51.2	0.9
6	22	32	36	256		6	23.9	31.3	6	1	50	4	249		17	49.9	23.0	6	5	17	53	266		26	52.1	0.4
8	22	36	52	254		5	52.6	31.4	8	1	54	13	250		17	12.9	22.7	8	5	22	19	266		26	52.5	0.2
10	22	41	6	253		5	21.2	31.4	10	1	58	23	250		17	35.6	22.3	10	5	26	45	265		26	52.3	0.6
12	22	45	19	253		4	49.8	31.5	12	2	2	33	251		17	57.9	21.8	12	5	31	10	266		26	51.7	1.2
14	22	49	32	252		4	18.3	31.5	14	2	6	44	251		18	19.7	21.5	14	5	35	36	266		26	50.5	1.7
16	22	53	44	251		3	46.8	31.5	16	2	10	55	252		18	41.2	21.1	16	5	40	1	265		26	48.8	2.2
18	22	57	55	251		3	15.2	31.6	18	2	15	7	252		19	2.3	20.7	18	5	44	26	265		26	46.6	2.7
20	23	2	6	250		2	43.7	31.6	20	2	19	19	252		19	23.0	20.3	20	5	48	51	264		26	43.9	3.2
22	23	6	16	249	S.	2	12.1	31.5	22	2	23	32	253	N.	19	43.3	19.9	22	5	53	15	264		26	40.7	3.7
<b>Saturday 4.</b>										<b>Wednesday 8.</b>																
0	23	10	25	249	S.	1	40.6	31.5	0	2	27	45	253	N.	20	3.2	19.4	0	5	57	39	264	N.	26	37.0	4.3
2	23	14	34	248		1	9.1	31.5	2	2	31	58	255		20	22.6	19.1	2	6	2	3	264		26	32.7	4.7
4	23	18	42	248		0	37.6	31.5	4	2	36	13	254		20	41.7	18.6	4	6	6	27	263		26	28.0	5.2
6	23	22	50	247	S.	0	6.1	31.3	6	2	40	27	255		21	0.3	18.1	6	6	10	50	263		26	22.8	5.8
8	23	26	57	247	N.	0	25.2	31.3	8	2	44	42	256		21	18.4	17.8	8	6	15	13	262		26	17.0	6.2
10	23	31	4	246		0	56.5	31.3	10	2	48	58	257		21	36.2	17.3	10	6	19	35	262		26	10.8	6.8
12	23	35	10	246		1	27.8	31.3	12	2	53	15	256		21	53.5	16.8	12	6	23	57	262		26	4.0	7.2
14	23	39	16	246		1	58.9	31.1	14	2	57	31	258		22	10.3	16.4	14	6	28	19	262		25	56.8	7.7
16	23	43	22	245		2	29.9	31.0	16	3	1	40	257		22	26.7	15.9	16	6	32	40	260		25	49.1	8.2
18	23	47	27	245		3	0.8	30.9	18	3	6	6	257		22	42.6	15.5	18	6	37	0	260		25	40.9	8.7
20	23	51	32	245		3	31.6	30.8	20	3	10	25	259		22	58.1	15.0	20	6	41	20	259		25	32.2	9.2
22	23	55	37	244		4	2.3	30.7	22	3	14	44	259		23	13.1	14.5	22	6	45	39	259		25	23.0	9.6
24	23	59	41		N.	4	32.8	30.5	24	3	19	3	259	N.	23	27.6		24	6	49	58	259	N.	25	13.4	

MARCH.

G.M.T.					G.M.T.																					
Right Ascension.					Declination.					Right Ascension.					Declination.											
<b>Thursday 9.</b>										<b>Monday 13.</b>																
h	h	m	s	diff.	N.	o	'	diff.	h	h	m	s	diff.	N.	o	'	diff.	h	h	m	s	diff.	N.	o	'	diff.
0	3	19	3	260	N.	23	27.6	14.1	0	6	49	58	259	N.	25	13.4	10.2	0	6	49	58	259	N.	25	13.4	10.2
2	3	23	23	260		23	41.7	13.5	2	6	54	17	257		25	3.2	10.5	2	6	54	17	257		25	3.2	10.5
4	3	27	43	261		23	55.2	13.1	4	6	58	34	257		24	52.7	11.1	4	6	58	34	257		24	52.7	11.1
6	3	32	4	261		24	8.3	12.7	6	7	2	51	257		24	41.6	11.5	6	7	2	51	257		24	41.6	11.5
8	3	36	25	262		24	21.0	12.1	8	7	7	8	256		24	30.1	12.0	8	7	7	8	256		24	30.1	12.0
10	3	40	47	262		24	33.1	11.6	10	7	11	24	256		24	18.1	12.4	10	7	11	24	256		24	18.1	12.4
12	3	45	9	262		24	44.7	11.2	12	7	15	39	255		24	5.7	12.9	12	7	15	39	255		24	5.7	12.9
14	3	49	31	262																						



MARCH.

Friday 17.					Tuesday 21.				
G.M.T.	h	m	s	diff.	G.M.T.	h	m	s	diff.
0	10	5	6	233	0	13	16	55	260
2	10	8	59	232	2	13	21	15	261
4	10	12	51	232	4	13	25	36	263
6	10	16	43	233	6	13	29	59	263
8	10	20	36	232	8	13	34	22	266
10	10	24	28	232	10	13	38	48	266
12	10	28	20	232	12	13	43	14	268
14	10	32	12	232	14	13	47	42	270
16	10	36	4	232	16	13	52	12	271
18	10	39	56	232	18	13	56	43	272
20	10	43	48	232	20	14	1	15	274
22	10	47	40	232	22	14	5	49	276

Saturday 18.					Wednesday 22.				
G.M.T.	h	m	s	diff.	G.M.T.	h	m	s	diff.
0	10	51	32	233	0	14	10	25	276
2	10	55	25	232	2	14	15	1	279
4	10	59	17	233	4	14	19	40	280
6	11	3	10	234	6	14	24	20	281
8	11	7	4	234	8	14	29	1	283
10	11	10	57	234	10	14	33	44	285
12	11	14	51	234	12	14	38	29	286
14	11	18	45	235	14	14	43	15	287
16	11	22	40	234	16	14	48	2	289
18	11	26	34	234	18	14	52	51	291
20	11	30	30	236	20	14	57	42	292
22	11	34	26	236	22	15	2	34	293

Sunday 19.					Thursday 23.				
G.M.T.	h	m	s	diff.	G.M.T.	h	m	s	diff.
0	11	38	22	237	0	15	7	27	295
2	11	42	19	238	2	15	12	22	297
4	11	46	17	238	4	15	17	19	297
6	11	50	15	239	6	15	22	16	299
8	11	54	14	239	8	15	27	15	301
10	11	58	13	240	10	15	32	16	301
12	12	2	13	241	12	15	37	17	303
14	12	6	14	242	14	15	42	20	305
16	12	10	16	242	16	15	47	25	305
18	12	14	18	242	18	15	52	30	306
20	12	18	22	244	20	15	57	36	308
22	12	22	26	245	22	16	2	44	309

Monday 20.					Friday 21.				
G.M.T.	h	m	s	diff.	G.M.T.	h	m	s	diff.
0	12	26	31	246	0	16	7	53	309
2	12	30	37	247	2	16	13	2	311
4	12	34	44	248	4	16	18	13	311
6	12	38	52	249	6	16	23	24	313
8	12	43	1	251	8	16	28	37	313
10	12	47	12	251	10	16	33	50	313
12	12	51	23	252	12	16	39	3	315
14	12	55	35	254	14	16	44	18	315
16	12	59	49	255	16	16	49	33	315
18	13	4	4	256	18	16	54	48	316
20	13	8	20	257	20	17	0	4	316
22	13	12	37	258	22	17	5	20	316
24	13	16	55	258	24	17	10	36	316

MARCH.

Saturday 25.					Wednesday 29.				
G.M.T.	h	m	s	diff.	G.M.T.	h	m	s	diff.
0	17	10	36	317	0	21	10	7	270
2	17	15	53	317	2	21	14	37	267
4	17	21	10	317	4	21	19	4	267
6	17	26	27	317	6	21	23	31	265
8	17	31	44	317	8	21	27	56	265
10	17	37	1	316	10	21	32	21	263
12	17	42	17	316	12	21	36	44	263
14	17	47	34	316	14	21	41	6	262
16	17	52	50	316	16	21	45	26	260
18	17	58	6	315	18	21	49	46	259
20	18	3	21	315	20	21	54	5	257
22	18	8	36	314	22	21	58	22	257

Sunday 26.					Thursday 30.				
G.M.T.	h	m	s	diff.	G.M.T.	h	m	s	diff.
0	18	13	50	314	0	22	2	39	256
2	18	19	4	313	2	22	6	55	254
4	18	24	17	312	4	22	11	9	254
6	18	29	29	311	6	22	15	23	253
8	18	34	40	311	8	22	19	36	252
10	18	39	51	310	10	22	23	48	251
12	18	45	1	308	12	22	27	59	251
14	18	50	9	308	14	22	32	10	250
16	18	55	17	307	16	22	36	20	249
18	19	0	24	305	18	22	40	29	248
20	19	5	29	304	20	22	44	37	248
22	19	10	33	304	22	22	48	45	247

Monday 27.					Friday 31.				
G.M.T.	h	m	s	diff.	G.M.T.	h	m	s	diff.
0	19	15	37	301	0	22	52	52	247
2	19	20	38	301	2	22	56	59	246
4	19	25	39	300	4	23	1	5	246
6	19	30	39	298	6	23	5	11	245
8	19	35	37	296	8	23	9	16	245
10	19	40	33	296	10	23	13	21	244
12	19	45	29	294	12	23	17	25	244
14	19	50	23	293	14	23	21	29	244
16	19	55	16	291	16	23	25	32	243
18	20	0	7	289	18	23	29	36	243
20	20	4	57	288	20	23	33	39	243
22	20	9	45	287	22	23	37	42	242

PHASES OF THE MOON.

Date	Phase	h	m
Mar. 3	New Moon	15	58
11	First Quarter	6	33
19	Full Moon	5	27
26	Last Quarter	4	22

Date	Phase	h
Mar. 12	Apogee	5.4
26	Perigee	1.2



APRIL.

G.M.T.				G.M.T.			
Right Ascension.				Declination.			
<b>Saturday 1.</b>							
h	h	m	s	diff.	°	'	diff.
0	23	41	44	243	N.	2	17.4
2	23	45	47	242		2	47.7
4	23	49	49	243		3	18.0
6	23	53	52	242		3	48.1
8	23	57	54	242		4	18.1
10	0	1	56	242		4	48.0
12	0	5	58	242		5	17.8
14	0	10	0	242		5	47.4
16	0	14	2	242		6	16.8
18	0	18	5	243		6	46.1
20	0	22	7	242		7	15.2
22	0	26	10	243	N.	7	44.2
<b>Sunday 2.</b>							
0	0	30	12	243	N.	8	12.9
2	0	34	15	243		8	41.4
4	0	38	18	243		9	9.8
6	0	42	22	244		9	37.9
8	0	46	25	243		10	5.8
10	0	50	29	244		10	33.4
12	0	54	33	244		11	0.8
14	0	58	38	245		11	28.0
16	1	2	43	245		11	54.9
18	1	6	48	245		12	21.5
20	1	10	53	245		12	47.9
22	1	14	59	246	N.	13	13.9
<b>Monday 3.</b>							
0	1	19	6	247	N.	13	39.7
2	1	23	13	247		14	5.1
4	1	27	20	248		14	30.3
6	1	31	28	248		14	55.1
8	1	35	36	249		15	19.6
10	1	39	45	249		15	43.8
12	1	43	55	250		16	7.7
14	1	48	4	249		16	31.2
16	1	52	15	251		16	54.3
18	1	56	26	251		17	17.1
20	2	0	37	251		17	39.5
22	2	4	50	253	N.	18	1.5
<b>Tuesday 4.</b>							
0	2	9	2	254	N.	18	23.1
2	2	13	16	253		18	44.4
4	2	17	29	255		19	5.2
6	2	21	44	255		19	25.7
8	2	25	59	255		19	45.7
10	2	30	15	256		20	5.4
12	2	34	31	256		20	24.6
14	2	38	48	257		20	43.4
16	2	43	5	257		21	1.7
18	2	47	23	258		21	19.6
20	2	51	41	258		21	37.1
22	2	56	0	259		21	54.1
24	3	0	20	260	N.	22	10.6
<b>Wednesday 5.</b>							
h	h	m	s	diff.	°	'	diff.
0	3	0	20	260	N.	22	10.6
2	3	4	40	261		22	26.7
4	3	9	1	261		22	42.4
6	3	13	22	261		22	57.5
8	3	17	44	262		23	12.2
10	3	22	6	262		23	26.5
12	3	26	29	263		23	40.2
14	3	30	52	263		23	53.4
16	3	35	16	264		24	6.2
18	3	39	40	264		24	18.5
20	3	44	4	265		24	30.2
22	3	48	29	266	N.	24	41.5
<b>Thursday 6.</b>							
0	3	52	55	265	N.	24	52.2
2	3	57	20	266		25	2.5
4	4	1	46	266		25	12.2
6	4	6	12	267		25	21.5
8	4	10	39	267		25	30.2
10	4	15	6	267		25	38.4
12	4	19	33	267		25	46.1
14	4	24	0	267		25	53.3
16	4	28	27	267		25	59.9
18	4	32	54	268		26	6.1
20	4	37	22	268		26	11.7
22	4	41	50	268	N.	26	16.7
<b>Friday 7.</b>							
0	4	46	18	267	N.	26	21.3
2	4	50	45	268		26	25.3
4	4	55	13	268		26	28.9
6	4	59	41	268		26	31.8
8	5	4	8	267		26	34.3
10	5	8	36	268		26	36.2
12	5	13	3	267		26	37.7
14	5	17	30	267		26	38.5
16	5	21	58	268		26	38.9
18	5	26	24	266		26	38.8
20	5	30	51	267		26	38.1
22	5	35	17	266	N.	26	36.9
<b>Saturday 8.</b>							
0	5	39	43	266	N.	26	35.2
2	5	44	9	265		26	33.0
4	5	48	34	265		26	30.3
6	5	52	59	265		26	27.0
8	5	57	24	264		26	23.3
10	6	1	48	263		26	19.0
12	6	6	11	264		26	14.3
14	6	10	35	262		26	9.1
16	6	14	57	262		26	3.3
18	6	19	19	262		25	57.1
20	6	23	41	261		25	50.3
22	6	28	2	261		25	43.1
24	6	32	22	260	N.	25	35.4

APRIL.

G.M.T.				G.M.T.			
Right Ascension.				Declination.			
<b>Sunday 9.</b>							
h	h	m	s	diff.	°	'	d'ff.
0	6	32	22	260	N.	25	35.4
2	6	36	42	259		25	27.3
4	6	41	1	259		25	18.6
6	6	45	20	258		25	9.5
8	6	49	38	257		24	59.9
10	6	53	55	257		24	49.9
12	6	58	12	256		24	39.4
14	7	2	28	255		24	28.4
16	7	6	43	254		24	17.0
18	7	10	57	254		24	5.1
20	7	15	11	253		23	52.8
22	7	19	24	253	N.	23	40.1
<b>Monday 10.</b>							
0	7	23	37	251	N.	23	26.9
2	7	27	48	251		23	13.3
4	7	31	59	250		22	59.3
6	7	36	9	250		22	44.9
8	7	40	19	248		22	30.0
10	7	44	27	248		22	14.7
12	7	48	35	248		21	59.1
14	7	52	43	248		21	43.0
16	7	56	49	246		21	26.5
18	8	0	55	246		21	9.7
20	8	5	0	245		20	52.5
22	8	9	4	244	N.	20	34.8
<b>Tuesday 11.</b>							
0	8	13	8	243	N.	20	16.9
2	8	17	11	242		19	58.5
4	8	21	13	242		19	39.8
6	8	25	15	241		19	20.7
8	8	29	16	240		19	1.3
10	8	33	16	240		18	41.5
12	8	37	16	239		18	21.4
14	8	41	15	238		18	0.9
16	8	45	13	238		17	40.1
18	8	49	11	238		17	19.0
20	8	53	9	237		16	57.5
22	8	57	6	236	N.	16	35.8
<b>Wednesday 12.</b>							
0	9	1	2	236	N.	16	13.7
2	9	4	58	235		15	51.3
4	9	8	53	235		15	28.6
6	9	12	48	234		15	5.6
8	9	16	42	234		14	42.3
10	9	20	36	233		14	18.8
12	9	24	29	233		13	54.9
14	9	28	23	232		13	30.8
16	9	32	15	232		13	6.5
18	9	36	8	232		12	41.8
20	9	40	0	232		12	16.9
22	9	43	52	232		11	51.8
24	9	47	44	232	N.	11	26.4
<b>Thursday 13.</b>							
h	h	m	s	diff.	°	'	diff.
0	9	47	44	231	N.	11	26.4
2	9	51	35	231		11	0.7
4	9	55	26	231		10	34.8
6	9	59	17	231		10	8.7
8	10	3	8	231		9	42.4
10	10	6	59	231		9	15.9
12	10	10	50	230		8	49.1
14	10	14	40	230		8	22.2
16	10	18	31	231		7	55.0
18	10	22	21	230		7	27.7
20	10	26	12	231		7	0.2
22	10	30	3	231	N.	6	32.4
<b>Friday 14.</b>							
0	10	33	54	231	N.	6	4.6
2	10	37	45	231		5	36.5
4	10	41	36	231		5	8.3
6	10	45	27	231		4	40.0
8	10	49	18	232		4	11.5
10	10	53	10	232		3	42.8
12	10	57	2	233		3	14.1
14	11	0	55	233		2	45.2
16	11	4	48	233		2	16.2
18	11	8	41	233		1	47.1
20	11	12	34	233		1	17.9
22	11	16	29	234	N.	0	48.6
<b>Saturday 15.</b>							
0	11	20	23	235	N.	0	19.2
2	11	24	18	236	S.	0	10.2
4	11	28	14	236		0	39.8
6	11	32	10	236		1	9.3
8	11	36	7	237		1	38.9
10	11	40	5	238		2	8.6
12	11	44	3	239		2	38.3
14	11	4					



APRIL.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Monday 17.</b>					
h	h m s	diff.	° /	diff.	
0	12 58 17	259	S. 11	26.3	28.2
2	13 2 36	260		11 54.5	28.1
4	13 6 56	261		12 22.6	27.9
6	13 11 17	263		12 50.5	27.6
8	13 15 40	265		13 18.1	27.4
10	13 20 5	266		13 45.5	27.2
12	13 24 31	267		14 12.7	26.9
14	13 28 58	269		14 39.6	26.6
16	13 33 27	271		15 6.2	26.3
18	13 37 58	272		15 32.5	26.0
20	13 42 30	274		15 58.5	25.7
22	13 47 4	275	S. 16	24.2	25.4
<b>Tuesday 18.</b>					
0	13 51 39	278	S. 16	49.6	25.0
2	13 56 17	278		17 14.6	24.7
4	14 0 55	281		17 39.3	24.3
6	14 5 36	282		18 3.6	23.9
8	14 10 18	284		18 27.5	23.4
10	14 15 2	285		18 50.9	23.1
12	14 19 47	287		19 14.0	22.6
14	14 24 34	289		19 36.6	22.2
16	14 29 23	291		19 58.8	21.7
18	14 34 14	292		20 20.5	21.2
20	14 39 6	294		20 41.7	20.7
22	14 44 0	295	S. 21	2.4	20.3
<b>Wednesday 19.</b>					
0	14 48 55	297	S. 21	22.7	19.7
2	14 53 52	299		21 42.4	19.1
4	14 58 51	300		22 1.5	18.6
6	15 3 51	302		22 20.1	18.1
8	15 8 53	304		22 38.2	17.4
10	15 13 57	305		22 55.6	16.9
12	15 19 2	306		23 12.5	16.2
14	15 24 8	308		23 28.7	15.7
16	15 29 16	309		23 44.4	15.0
18	15 34 25	311		23 59.4	14.3
20	15 39 36	312		24 13.7	13.8
22	15 44 48	313	S. 24	27.5	13.0
<b>Thursday 20.</b>					
0	15 50 1	314	S. 24	40.5	12.4
2	15 55 15	315		24 52.9	11.7
4	16 0 30	317		25 4.6	11.0
6	16 5 47	317		25 15.6	10.2
8	16 11 4	319		25 25.8	9.6
10	16 16 23	319		25 35.4	8.9
12	16 21 42	320		25 44.3	8.1
14	16 27 2	321		25 52.4	7.4
16	16 32 23	321		25 59.8	6.7
18	16 37 44	322		26 6.5	5.9
20	16 43 6	323		26 12.4	5.1
22	16 48 29	323		26 17.5	4.4
24	16 53 52	323	S. 26	21.9	4.4
<b>Friday 21.</b>					
h	h m s	diff.	° /	diff.	
0	16 53 52	323	S. 26	21.9	3.7
2	16 59 15	324		26 25.6	2.9
4	17 4 39	323		26 28.5	2.1
6	17 10 2	324		26 30.6	1.4
8	17 15 26	324		26 32.0	0.6
10	17 20 50	324		26 32.6	0.2
12	17 26 13	323		26 32.4	0.9
14	17 31 37	323		26 31.5	1.7
16	17 37 0	323		26 29.8	2.4
18	17 42 23	322		26 27.4	3.2
20	17 47 45	322		26 24.2	4.0
22	17 53 7	322	S. 26	20.2	4.7
<b>Saturday 22.</b>					
0	17 58 29	320	S. 26	15.5	5.4
2	18 3 49	320		26 10.1	6.2
4	18 9 9	319		26 3.9	6.9
6	18 14 28	319		25 57.0	7.6
8	18 19 47	317		25 49.4	8.3
10	18 25 4	317		25 41.1	9.1
12	18 30 21	315		25 32.0	9.7
14	18 35 36	314		25 22.3	10.4
16	18 40 50	313		25 11.9	11.2
18	18 46 3	312		25 0.7	11.7
20	18 51 15	310		24 49.0	12.5
22	18 56 25	310	S. 24	36.5	13.1
<b>Sunday 23.</b>					
0	19 1 35	307	S. 24	23.4	13.7
2	19 6 42	307		24 9.7	14.4
4	19 11 49	305		23 55.3	15.0
6	19 16 54	303		23 40.3	15.6
8	19 21 57	302		23 24.7	16.1
10	19 26 59	301		23 8.6	16.8
12	19 32 0	299		22 51.8	17.3
14	19 36 59	297		22 34.5	17.9
16	19 41 56	296		22 16.6	18.4
18	19 46 52	294		21 58.2	19.0
20	19 51 46	293		21 39.2	19.5
22	19 56 39	291	S. 21	19.7	20.0
<b>Monday 24.</b>					
0	20 1 30	289	S. 20	59.7	20.4
2	20 6 19	288		20 39.3	21.0
4	20 11 7	286		20 18.3	21.4
6	20 15 53	284		19 56.9	21.8
8	20 20 37	283		19 35.1	22.3
10	20 25 20	282		19 12.8	22.8
12	20 30 2	279		18 50.0	23.1
14	20 34 41	278		18 26.9	23.5
16	20 39 19	277		18 3.4	23.9
18	20 43 56	275		17 39.5	24.3
20	20 48 31	273		17 15.2	24.7
22	20 53 4	272		16 50.5	25.0
24	20 57 36	272	S. 16	25.5	25.0

APRIL.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Tuesday 25.</b>					
h	h m s	diff.	° /	diff.	
0	20 57 36	271	S. 16	25.5	25.3
2	21 2 7	269		16 0.2	25.6
4	21 6 36	267		15 34.6	26.0
6	21 11 3	266		15 8.6	26.2
8	21 15 29	265		14 42.4	26.6
10	21 19 54	263		14 15.8	26.8
12	21 24 17	263		13 49.0	27.0
14	21 28 40	260		13 22.0	27.3
16	21 33 0	260		12 54.7	27.6
18	21 37 20	258		12 27.1	27.7
20	21 41 38	257	S. 11	59.4	28.0
22	21 45 55	256		11 31.4	28.2
<b>Wednesday 26.</b>					
0	21 50 11	255	S. 11	3.2	28.3
2	21 54 26	254		10 34.9	28.6
4	21 58 40	252		10 6.3	28.7
6	22 2 52	252		9 37.6	28.8
8	22 7 4	250		9 8.8	29.0
10	22 11 14	250		8 39.8	29.2
12	22 15 24	249		8 10.6	29.2
14	22 19 33	248		7 41.4	29.4
16	22 23 41	247		7 12.0	29.5
18	22 27 48	246		6 42.5	29.5
20	22 31 54	246		6 13.0	29.7
22	22 36 0	244	S. 5	43.3	29.7
<b>Thursday 27.</b>					
0	22 40 4	244	S. 5	13.6	29.8
2	22 44 8	244		4 43.8	29.8
4	22 48 12	243		4 14.0	29.9
6	22 52 15	242		3 44.1	29.9
8	22 56 17	242		3 14.2	29.9
10	23 0 19	241		2 44.3	29.9
12	23 4 20	241		2 14.4	30.0
14	23 8 21	240		1 44.4	29.9
16	23 12 21	240		1 14.5	29.9
18	23 16 21	239		0 44.6	29.9
20	23 20 20	239	S. 0	14.7	29.9
22	23 24 20	239	N. 0	15.2	29.8
<b>Friday 28.</b>					
0	23 28 19	238	N. 0	45.0	29.7
2	23 32 17	239		1 14.7	29.7
4	23 36 16	238		1 44.4	29.7
6	23 40 14	238		2 14.1	29.5
8	23 44 12	238		2 43.6	29.5
10	23 48 10	238		3 13.1	29.3
12	23 52 8	238		3 42.4	29.3
14	23 56 6	238		4 11.7	29.1
16	0 0 4	238		4 40.8	29.0
18	0 4 2	238		5 9.8	28.9
20	0 8 0	238		5 38.7	28.8
22	0 11 59	238		6 7.5	28.6
24	0 15 57	238	N. 6	36.1	28.6
<b>Saturday 29.</b>					
h	h m s	diff.	° /	diff.	
0	0 15 57	238	N. 6	36.1	28.4
2	0 19 55	239		7 4.5	28.3
4	0 23 54	239		7 32.8	28.1
6	0 27 53	239		8 0.9	27.9
8	0 31 52	239		8 28.8	27.8
10	0 35 51	239		8 56.6	27.5
12	0 39 50	240		9 24.1	27.3
14	0 43 50	241		9 51.4	27.2
16	0 47 51	241		10 18.6	26.9
18	0 51 51	241		10 45.5	26.6
20	0 55 52	242		11 12.1	26.4
22	0 59 54	241	N. 11	38.5	26.2
<b>Sunday 30.</b>					
0	1 3 55	243	N. 12	4.7	25.9
2	1 7 58	242		12 30.6	25.7
4	1 12 0	244		12 56.3	25.4
6	1 16 4	244		13 21.7	25.1
8	1 20 8	244		13 46.8	24.8
10	1 24 12	244		14 11.6	24.5
12	1 28 17	245		14 36.1	24.3
14	1 32 22	245		15 0.4	23.9
16	1 36 28	246		15 24.3	23.6
18	1 40 35	247		15 47.9	23.3
20	1 44 42	247		16 11.2	22.9
22	1 48 50	248		16 34.1	22.6
24	1 52 59	249	N. 16	56.7	22.6

PHASES OF THE MOON.

Date	Phase	h	m
Apr. 2	● New Moon.....		



MAY.

G.M.T.		Right Ascension.			Declination.		
<b>Monday 1.</b>							
h	h	m	s	diff.	°	'	diff.
0	1	52	59	249	N.	16	56.7
2	1	57	8	250		17	19.0
4	2	1	18	250		17	40.9
6	2	5	28	251		18	2.4
8	2	9	39	252		18	23.6
10	2	13	51	252		18	44.4
12	2	18	3	254		19	4.8
14	2	22	17	254		19	24.8
16	2	26	30	255		19	44.5
18	2	30	45	255		20	3.7
20	2	35	0	256		20	22.5
22	2	39	16	257	N.	20	40.9
<b>Tuesday 2.</b>							
0	2	43	33	257	N.	20	58.9
2	2	47	50	258		21	16.5
4	2	52	8	258		21	33.6
6	2	56	26	258		21	50.3
8	3	0	45	259		22	6.5
10	3	5	5	260		22	22.3
12	3	9	26	261		22	37.6
14	3	13	47	261		22	52.5
16	3	18	8	262		23	6.9
18	3	22	30	262		23	20.8
20	3	26	53	263		23	34.3
22	3	31	16	264	N.	23	47.3
<b>Wednesday 3.</b>							
0	3	35	40	264	N.	23	59.8
2	3	40	4	265		24	11.8
4	3	44	29	265		24	23.3
6	3	48	54	266		24	34.3
8	3	53	20	266		24	44.8
10	3	57	46	266		24	54.8
12	4	2	12	267		25	4.3
14	4	6	39	267		25	13.3
16	4	11	5	268		25	21.8
18	4	15	33	267		25	29.8
20	4	20	0	268		25	37.3
22	4	24	28	268	N.	25	44.2
<b>Thursday 4.</b>							
0	4	28	56	268	N.	25	50.6
2	4	33	24	268		25	56.5
4	4	37	52	268		26	1.9
6	4	42	20	269		26	6.7
8	4	46	49	268		26	11.1
10	4	51	17	269		26	14.9
12	4	55	46	268		26	18.2
14	5	0	14	268		26	20.9
16	5	4	42	268		26	23.1
18	5	9	10	268		26	24.9
20	5	13	38	268		26	26.0
22	5	18	6	267		26	26.7
24	5	22	33	267	N.	26	26.8
<b>Friday 5.</b>							
h	h	m	s	diff.	°	'	diff.
0	5	22	33	268	N.	26	26.8
2	5	27	1	267		26	26.5
4	5	31	28	267		26	25.6
6	5	35	55	266		26	24.2
8	5	40	21	266		26	22.2
10	5	44	47	266		26	19.8
12	5	49	13	265		26	16.8
14	5	53	38	264		26	13.4
16	5	58	2	264		26	9.4
18	6	2	27	265		26	5.0
20	6	6	50	263		26	0.0
22	6	11	13	263	N.	25	54.5
<b>Saturday 6.</b>							
0	6	15	36	262	N.	25	48.6
2	6	19	58	261		25	42.2
4	6	24	19	261		25	35.2
6	6	28	40	260		25	27.8
8	6	33	0	259		25	20.0
10	6	37	19	259		25	11.6
12	6	41	38	258		25	2.8
14	6	45	56	257		24	53.5
16	6	50	13	257		24	43.8
18	6	54	30	255		24	33.6
20	6	58	45	255		24	22.9
22	7	3	0	254	N.	24	11.8
<b>Sunday 7.</b>							
0	7	7	14	254	N.	24	0.3
2	7	11	28	252		23	48.4
4	7	15	40	252		23	36.0
6	7	19	52	251		23	23.1
8	7	24	3	250		23	9.9
10	7	28	13	250		22	56.2
12	7	32	22	249		22	42.2
14	7	36	31	249		22	27.7
16	7	40	39	248		22	12.8
18	7	44	45	246		21	57.6
20	7	48	51	246		21	41.9
22	7	52	57	244	N.	21	25.9
<b>Monday 8.</b>							
0	7	57	1	244	N.	21	9.5
2	8	1	5	242		20	52.7
4	8	5	7	243		20	35.6
6	8	9	10	241		20	18.1
8	8	13	11	240		20	0.2
10	8	17	11	240		19	42.0
12	8	21	11	240		19	23.4
14	8	25	10	239		19	4.5
16	8	29	8	238		18	45.3
18	8	33	6	238		18	25.7
20	8	37	3	237		18	5.8
22	8	40	59	236		17	45.6
24	8	44	54	235	N.	17	25.0

MAY.

G.M.T.		Right Ascension.			Declination.		
<b>Tuesday 9.</b>							
h	h	m	s	diff.	°	'	diff.
0	8	44	54	235	N.	17	25.0
2	8	48	49	234		17	4.2
4	8	52	43	234		16	43.1
6	8	56	37	233		16	21.6
8	9	0	30	233		15	59.9
10	9	4	23	231		15	37.9
12	9	8	14	231		15	15.6
14	9	12	6	232		14	53.0
16	9	15	57	231		14	30.1
18	9	19	47	230		14	7.0
20	9	23	37	230		13	43.7
22	9	27	27	229	N.	13	20.0
<b>Wednesday 10.</b>							
0	9	31	16	229	N.	12	56.1
2	9	35	5	228		12	32.0
4	9	38	53	228		12	7.6
6	9	42	41	228		11	43.0
8	9	46	29	228		11	18.2
10	9	50	17	227		10	53.1
12	9	54	4	227		10	27.8
14	9	57	51	227		10	2.3
16	10	1	38	227		9	36.6
18	10	5	25	227		9	10.7
20	10	9	11	226		8	44.6
22	10	12	58	227	N.	8	18.3
<b>Thursday 11.</b>							
0	10	16	45	226	N.	7	51.8
2	10	20	31	226		7	25.2
4	10	24	18	227		6	58.3
6	10	28	5	226		6	31.3
8	10	31	51	227		6	4.1
10	10	35	38	227		5	36.8
12	10	39	25	227		5	9.3
14	10	43	12	228		4	41.7
16	10	47	0	228		4	13.9
18	10	50	48	228		3	46.0
20	10	54	36	228		3	18.0
22	10	58	24	229	N.	2	49.8
<b>Friday 12.</b>							
0	11	2	13	229	N.	2	21.5
2	11	6	2	229		1	53.1
4	11	9	51	230		1	24.6
6	11	13	41	231		0	56.1
8	11	17	32	231	N.	0	27.4
10	11	21	23	232	S.	0	1.4
12	11	25	15	232		0	30.2
14	11	29	7	232		0	59.1
16	11	33	0	233		1	28.0
18	11	36	54	234		1	57.0
20	11	40	49	235		2	26.1
22	11	44	44	235		2	55.1
24	11	48	40	236	S.	3	24.2
<b>Saturday 13.</b>							
h	h	m	s	diff.	°	'	diff.
0	11	48	40	238	S.	3	24.2
2	11	52	38	238		3	53.4
4	11	56	36	239		4	22.5
6	12	0	35	239		4	51.6
8	12	4	34	241		5	20.7
10	12	8	35	243		5	49.8
12	12	12	38	243		6	18.9
14	12	16	41	244		6	47.9
16	12	20	45	246		7	16.9
18	12	24	51	246		7	45.8
20	12	28	57	249		8	14.7
22	12	33	6	249	S.	8	43.5
<b>Sunday 14.</b>							
0	12	37	15	251	S.	9	12.1
2	12	41	26	252		9	40.7
4	12	45	38	253		10	9.2
6	12	49	51	255		10	37.5
8	12	54					



MAY.

G.M.T.		Right Ascension.				Declination.			
<b>Wednesday 17.</b>									
h	h	m	s	diff.	S.	°	'	diff.	
0	15	25	35	315	S.	23	30.3	15.5	
2	15	30	50	316		23	45.8	14.8	
4	15	36	6	317		24	0.6	14.1	
6	15	41	23	319		24	14.7	13.5	
8	15	46	42	321		24	28.2	12.8	
10	15	52	3	322		24	41.0	12.1	
12	15	57	25	323		24	53.1	11.4	
14	16	2	48	325		25	4.5	10.6	
16	16	8	13	325		25	15.1	9.9	
18	16	13	38	327		25	25.0	9.2	
20	16	19	5	328		25	34.2	8.4	
22	16	24	33	329	S.	25	42.6	7.7	
<b>Thursday 18.</b>									
0	16	30	2	330	S.	25	50.3	6.9	
2	16	35	32	330		25	57.2	6.1	
4	16	41	2	331		26	3.3	5.3	
6	16	46	33	332		26	8.6	4.5	
8	16	52	5	332		26	13.1	3.8	
10	16	57	37	333		26	16.9	3.0	
12	17	3	10	333		26	19.8	2.1	
14	17	8	43	333		26	21.9	1.4	
16	17	14	16	333		26	23.3	0.5	
18	17	19	49	333		26	23.8	0.3	
20	17	25	22	333		26	23.5	1.0	
22	17	30	55	333	S.	26	22.5	1.9	
<b>Friday 19.</b>									
0	17	36	28	333	S.	26	20.6	2.7	
2	17	42	1	332		26	17.9	3.5	
4	17	47	33	332		26	14.4	4.3	
6	17	53	5	331		26	10.1	5.0	
8	17	58	36	330		26	5.1	5.9	
10	18	4	6	330		25	59.2	6.6	
12	18	9	36	329		25	52.6	7.4	
14	18	15	5	328		25	45.2	8.2	
16	18	20	33	327		25	37.0	8.9	
18	18	26	0	326		25	28.1	9.7	
20	18	31	26	324		25	18.4	10.4	
22	18	36	50	324	S.	25	8.0	11.1	
<b>Saturday 20.</b>									
0	18	42	14	321	S.	24	56.9	11.9	
2	18	47	36	321		24	45.0	12.5	
4	18	52	57	319		24	32.5	13.2	
6	18	58	16	318		24	19.3	14.0	
8	19	3	34	316		24	5.3	14.5	
10	19	8	50	315		23	50.8	15.3	
12	19	14	5	313		23	35.5	15.8	
14	19	19	18	311		23	19.7	16.5	
16	19	24	29	310		23	3.2	17.2	
18	19	29	39	308		22	46.0	17.7	
20	19	34	47	306		22	28.3	18.2	
22	19	39	53	305		22	10.1	18.9	
24	19	44	58	305	S.	21	51.2	18.9	
<b>Sunday 21.</b>									
h	h	m	s	diff.	S.	°	'	diff.	
0	19	44	58	302	S.	21	51.2	19.4	
2	19	50	0	301		21	31.8	19.9	
4	19	55	1	299		21	11.9	20.5	
6	20	0	0	297		20	51.4	21.0	
8	20	4	57	295		20	30.4	21.4	
10	20	9	52	294		19	9.0	22.0	
12	20	14	46	292		19	47.0	22.4	
14	20	19	38	289		19	24.6	22.8	
16	20	24	27	288		19	1.8	23.3	
18	20	29	15	286		18	38.5	23.6	
20	20	34	1	285		18	14.9	24.1	
22	20	38	46	282	S.	17	50.8	24.5	
<b>Monday 22.</b>									
0	20	43	28	281	S.	17	26.3	24.8	
2	20	48	9	279		17	1.5	25.2	
4	20	52	48	277		16	36.3	25.5	
6	20	57	25	276		16	10.8	25.8	
8	21	2	1	273		15	45.0	26.2	
10	21	6	34	273		15	18.8	26.4	
12	21	11	7	270		14	52.4	26.8	
14	21	15	37	269		14	25.6	27.0	
16	21	20	6	267		13	58.6	27.2	
18	21	24	33	266		13	31.4	27.5	
20	21	28	59	265		13	3.9	27.7	
22	21	33	24	262	S.	12	36.2	28.0	
<b>Tuesday 23.</b>									
0	21	37	46	262	S.	12	8.2	28.1	
2	21	42	8	260		11	40.1	28.3	
4	21	46	28	258		11	11.8	28.5	
6	21	50	46	258		10	43.3	28.7	
8	21	55	4	256		10	14.6	28.8	
10	21	59	20	255		9	45.8	29.0	
12	22	3	35	253		9	16.8	29.1	
14	22	7	48	253		8	47.7	29.2	
16	22	12	1	251		8	18.5	29.3	
18	22	16	12	250		7	49.2	29.4	
20	22	20	22	249		7	19.8	29.5	
22	22	24	31	249	S.	6	50.3	29.6	
<b>Wednesday 24.</b>									
0	22	28	40	247	S.	6	20.7	29.7	
2	22	32	47	246		5	51.0	29.6	
4	22	36	53	246		5	21.4	29.8	
6	22	40	59	244		4	51.6	29.8	
8	22	45	3	243		4	21.8	29.8	
10	22	49	7	243		3	52.0	29.8	
12	22	53	10	242		3	22.2	29.8	
14	22	57	12	242		2	52.4	29.8	
16	23	1	14	242		2	22.6	29.8	
18	23	5	15	241		1	52.8	29.8	
20	23	9	16	240		1	23.0	29.7	
22	23	13	16	239		0	53.3	29.7	
24	23	17	15	239	S.	0	23.5	29.8	

MAY.

G.M.T.		Right Ascension.				Declination.			
<b>Thursday 25.</b>									
h	h	m	s	diff.	S.	°	'	diff.	
0	23	17	15	239	S.	0	23.5	29.6	
2	23	21	14	238	N.	0	6.1	29.6	
4	23	25	12	239		0	35.7	29.6	
6	23	29	11	237		1	5.3	29.4	
8	23	33	8	238		1	34.7	29.4	
10	23	37	6	237		2	4.1	29.3	
12	23	41	3	237		2	33.4	29.2	
14	23	45	0	237		3	2.6	29.1	
16	23	48	57	236		3	31.7	29.0	
18	23	52	53	237		4	0.7	28.9	
20	23	56	50	236		4	29.6	28.7	
22	0	0	46	236	N.	4	58.3	28.6	
<b>Friday 26.</b>									
0	0	4	42	237	N.	5	26.9	28.4	
2	0	8	39	236		5	55.3	28.3	
4	0	12	35	236		6	23.6	28.2	
6	0	16	31	237		6	51.8	27.9	
8	0	20	28	236		7	19.7	27.8	
10	0	24	24	236		7	47.5	27.6	
12	0	28	21	237		8	15.1	27.5	
14	0	32	18	237		8	42.6	27.2	
16	0	36	15	237		9	9.8	27.0	
18	0	40	12	237		9	36.8	26.8	
20	0	44	9	237		10	3.6	26.6	
22	0	48	7	238	N.	10	30.2	26.4	
<b>Saturday 27.</b>									
0	0	52	5	239	N.	10	56.6	26.1	
2	0	56	4	239		11	22.7	25.9	
4	1	0	3	239		11	48.6	25.7	
6	1	4	2	240		12	14.3	25.4	
8	1	8	2	240		12	39.7	25.1	
10	1	12	2	241		13	4.8	24.9	
12	1	16	3	241		13	29.7	24.5	
14	1	20	4	241		13	54.2	24.4	
16	1	24	5	241		14	18.6	24.0	
18	1	28	8	242		14	42.6	23.7	
20	1	32	10	244		15	6.3	23.4	
22	1	36	14	243	N.	15	29.7	23.1	
<b>Sunday 28.</b>									
0	1	40	17	245	N.	15	52.8	22.8	
2	1	44	22	245		16	15.6	22.5	
4	1	48	27	246		16	38.1	22.1	
6	1	52	33	246		17	0.2	21.8	
8	1	56	39	247		17	22.0	21.5	
10	2	0	46	248		17	43.5	21.1	
12	2	4	54	248		18	4.6	20.7	
14	2	9	2	249		18	25.3	20.4	
16	2	13	11	250		18	45.7	20.0	
18	2	17	21	251		19	5.7	19.7	
20	2	21	32	251		19	25.4	19.2	
22	2	25	43	2					



JUNE.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Thursday 1.</b>					
h	h m s	diff. ° /	h	h m s	diff. ° /
0	5 7 18	267 N. 26 19.5	0	8 30 58	235 N. 18 23.6
2	5 11 45	267 26 20.7	2	8 34 53	235 18 3.9
4	5 16 12	267 26 21.4	4	8 38 48	234 17 44.0
6	5 20 39	267 26 21.6	6	8 42 42	233 17 23.7
8	5 25 6	267 26 21.2	8	8 46 35	233 17 3.1
10	5 29 33	267 26 20.3	10	8 50 28	232 16 42.2
12	5 34 0	266 26 18.9	12	8 54 20	231 16 21.0
14	5 38 26	265 26 17.0	14	8 58 11	230 15 59.6
16	5 42 51	265 26 14.6	16	9 2 1	230 15 37.8
18	5 47 17	265 26 11.7	18	9 5 51	229 15 15.8
20	5 51 42	264 26 8.3	20	9 9 40	229 14 53.6
22	5 56 6	265 N. 26 4.4	22	9 13 29	228 N. 14 31.1
<b>Friday 2.</b>					
0	6 0 31	263 N. 25 59.9	0	9 17 17	227 N. 14 8.3
2	6 4 54	263 25 55.0	2	9 21 4	227 13 45.3
4	6 9 17	263 25 49.6	4	9 24 51	227 13 22.1
6	6 13 40	262 25 43.7	6	9 28 38	226 12 58.6
8	6 18 2	261 25 37.3	8	9 32 24	226 12 34.9
10	6 22 23	261 25 30.4	10	9 36 10	225 12 11.0
12	6 26 44	260 25 23.0	12	9 39 55	224 11 46.8
14	6 31 4	259 25 15.2	14	9 43 39	224 11 22.5
16	6 35 23	259 25 6.9	16	9 47 24	224 10 57.9
18	6 39 42	258 24 58.1	18	9 51 8	224 10 33.1
20	6 44 0	258 24 48.9	20	9 54 52	223 10 8.1
22	6 48 17	257 N. 24 39.2	22	9 58 35	223 N. 9 43.0
<b>Saturday 3.</b>					
0	6 52 34	255 N. 24 29.1	0	10 2 18	223 N. 9 17.6
2	6 56 49	255 24 18.5	2	10 6 1	223 8 52.1
4	7 1 4	254 24 7.4	4	10 9 44	223 8 26.4
6	7 5 18	254 23 55.9	6	10 13 27	222 8 0.5
8	7 9 32	252 23 44.0	8	10 17 9	222 7 34.5
10	7 13 44	252 23 31.7	10	10 20 52	222 7 8.3
12	7 17 56	251 23 19.0	12	10 24 34	222 6 41.9
14	7 22 7	249 23 5.8	14	10 28 16	222 6 15.4
16	7 26 16	249 22 52.2	16	10 31 59	222 5 48.8
18	7 30 25	249 22 38.2	18	10 35 41	222 5 22.0
20	7 34 34	247 22 23.8	20	10 39 23	222 4 55.0
22	7 38 41	246 N. 22 9.0	22	10 43 6	223 N. 4 28.0
<b>Sunday 4.</b>					
0	7 42 47	246 N. 21 53.9	0	10 46 49	223 N. 4 0.8
2	7 46 53	245 21 38.3	2	10 50 32	223 3 33.5
4	7 50 58	243 21 22.4	4	10 54 15	223 3 6.1
6	7 55 1	243 21 6.1	6	10 57 58	224 2 38.6
8	7 59 4	242 20 49.4	8	11 1 42	224 2 11.0
10	8 3 6	242 20 32.4	10	11 5 26	224 1 43.3
12	8 7 8	240 20 15.0	12	11 9 10	224 1 15.6
14	8 11 8	240 19 57.3	14	11 12 55	225 0 47.7
16	8 15 8	238 19 39.2	16	11 16 41	225 0 19.8
18	8 19 6	238 19 20.8	18	11 20 26	225 0 8.2
20	8 23 4	237 19 2.1	20	11 24 13	227 0 36.3
22	8 27 1	237 18 43.0	22	11 27 59	228 0 4.4
24	8 30 58	237 N. 18 23.6	24	11 31 47	228 S. 1 32.6

JUNE.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Friday 9.</b>					
h	h m s	diff. ° /	h	h m s	diff. ° /
0	11 31 47	228 S. 1 32.6	0	12 18 19	239 S. 7 11.8
2	11 35 35	229 2 0.8	2	12 22 18	240 7 40.0
4	11 39 24	229 2 29.1	4	12 26 18	241 8 8.0
6	11 43 13	231 2 57.3	6	12 30 19	243 8 36.0
8	11 47 4	231 3 25.6	8	12 34 22	244 9 3.9
10	11 50 55	232 3 53.9	10	12 38 26	244 9 31.8
12	11 54 47	232 4 22.3	12	12 42 32	246 9 59.5
14	11 58 40	233 4 50.6	14	12 46 38	246 10 27.1
16	12 2 33	233 5 18.9	16	12 50 47	249 10 54.6
18	12 6 28	235 5 47.2	18	12 54 56	249 11 22.0
20	12 10 24	236 6 15.4	20	12 59 8	252 11 49.2
22	12 14 21	237 S. 6 43.6	22	13 3 20	252 S. 12 16.3
<b>Saturday 10.</b>					
0	12 18 19	239 S. 7 11.8	0	16 1 24	325 S. 25 3.3
2	12 22 18	240 7 40.0	2	16 6 49	327 25 13.9
4	12 26 18	241 8 8.0	4	16 12 16	328 25 23.8
6	12 30 19	243 8 36.0	6	16 17 44	329 25 33.0
8	12 34 22	244 9 3.9	8	16 23 13	331 25 41.4
10	12 38 26	244 9 31.8	10	16 28 44	332 25 49.0
12	12 42 32	246 9 59.5	12	16 34 16	333 25 55.9
14	12 46 38	246 10 27.1	14	16 39 49	333 26 2.0
16	12 50 47	249 10 54.6	16	16 45 22	333 26 7.3
18	12 54 56	249 11 22.0	18	16 50 57	335 26 11.8
20	12 59 8	252 11 49.2	20	16 56 33	336 26 15.4
22	13 3 20	255 S. 12 16.3	22	17 2 9	337 S. 26 18.3
<b>Sunday 11.</b>					
0	13 7 35	256 S. 12 43.2	0	17 7 46	337 S. 26 20.4
2	13 11 51	258 13 9.9	2	17 13 23	338 26 21.6
4	13 16 9	259 13 36.4	4	17 19 1	338 26 22.1
6	13 20 28	261 14 2.8	6	17 24 39	338 26 21.6
8	13 24 49	263 14 28.9	8	17 30 17	339 26 20.4
10	13 29 12	265 14 54.8	10	17 35 56	338 26 18.3
12	13 33 37	266 15 20.4	12	17 41 34	338 26 15.4
14	13 38 3	269 15 45.8	14	17 47 12	338 26 11.7
16	13 42 32	269 16 10.9	16	17 52 50	337 26 7.2
18	13 47 2	270 16 35.8	18	17 58 27	337 26 1.8
20	13 51 34	272 17 0.3	20	18 4 4	337 25 55.6
22	13 56 9	276 S. 17 24.5	22	18 9 41	337 S. 25 48.6
<b>Monday 12.</b>					
0	14 0 45	278 S. 17 48.5	0	18 15 17	335 S. 25 40.8
2	14 5 23	283 18 12.0	2	18 20 52	335 25 32.2
4	14 10 3	283 18 35.2	4	18 26 26	334 25 22.8
6	14 14 46	284 18 58.1	6	18 31 59	333 25 12.6
8	14 19 30	286 19 20.5	8	18 37 32	333 25 1.6
10	14 24 16	289 19 42.6	10	18 43 3	331 24 49.9
12	14 29 5	291 20 4.2	12	18 48 33	330 24 37.4
14	14 33 56	292 20 25.4	14	18 54 2	329 24 24.2
16	14 38 48	295 20 46.1	16	18 59 29	327 24 10.2
18	14 43 43	295 21 6.4	18	19 4 55	326 23 55.6
20	14 48 40	297 21 26.2	20	19 10 20	325 23 40.2
22	14 53 39	301 21 45.5	22	19 15 43	323 23 24.1
24	14 58 40	301 S. 22 4.2	24	19 21 4	321 S. 23 7.4
<b>Tuesday 13.</b>					
h	h m s	diff. ° /	h	h m s	diff. ° /
0	14 58 40	303 S. 22 4.2	0	16 1 24	325 S. 25 3.3
2	15 3 43	305 22 22.5	2	16 6 49	327 25 13.9
4	15 8 48	307 22 40.2	4	16 12 16	328 25 23.8
6	15 13 55	309 22 57.3	6	16 17 44	329 25 33.0
8	15 19 4	311 23 13.8	8	16 23 13	331 25 41.4
10	15 24 15	313 23 29.8	10	16 28 44	332 25 49.0
12	15 29 28	315 23 45.1	12	16 34 16	333 25 55.9
14	15 34 43	317 23 59.8	14	16 39 49	333 26 2.0
16	15 40 0	317 24 13.8	16	16 45 22	333 26 7.3
18	15 45 18	318 24 27.2	18	16 50 57	335 26 11.8
20	15 50 39	321 24 40.0	20	16 56 33	336 26 15.4
22	15 56 1	322 S. 24 52.0	22	17 2 9	337 S. 26 18.3
<b>Wednesday 14.</b>					
0	16 1 24	325 S. 25 3.3	0	10 2 18	223 N. 9 17.6
2	16 6 49	327 25 13.9	2	10 6 1	223 8 52.1
4	16 12 16	328 25 23.8	4	10 9 44	223 8 26.4
6	16 17 44	329 25 33.0	6	10 13 27	222 8 0.5
8	16 23 13	331 25 41.4	8	10 17 9	222 7 34.5
10	16 28 44	332 25 49.0	10	10 20 52	222 7 8.3
12	16 34 16	333 25 55.9	12	10 24 34	222 6 41.9
14	16 39 49	333 26 2.0	14	10 28 16	222 6 15.4
16	16 45 22	333 26 7.3	16	10 31 59	222 5 48.8
18	16 50 57	335 26 11.8	18	10 35 41	222 5 22.0
20	16 56 33	336 26 15.4	20	10 39 23	222 4 55.0
22	17 2 9	337 S. 26 18.3	22	10 43 6	223 N. 4 28.0
<b>Thursday 15.</b>					
0	17 7 46	337 S. 26 20.4	0	10 46 49	223 N. 4 0.8
2	17 13 23	338 26 21.6	2	10 50 32	223 3 33.5
4	17 19 1	338 26 22.1	4	10 54 15	223 3 6.1
6	17 24 39	338 26 21.6	6	10 57 58	224 2 38.6
8	17 30 17	339 26 20.4	8	11 1 42	224 2 11.0
10	17 35 56	338 26 18.3	10	11 5 26	224 1 43.3
12	17 41 34	338 26 15.4	12	11 9 10	224 1 15.6
14	17 47 12	338 26 11.7	14	11 12 55	225 0 47.7
16	17 52 50	338 26 7.2	16	11 16 41	225 0 19.8
18	17 58 27	337 26 1.8	18	11 20 26	225 0 8.2
20	18 4 4	337 25 55.6	20	11 24 13	227 0 36.3
22	18 9 41	337 S. 25 48.6	22	11 27 59	228 0 4.4
<b>Friday 16.</b>					
0	18 15 17	335 S. 25 40.8	0	10 46 49	223 N. 4 0.8
2	18 20 52	335 25 32.2	2	10 50 32	223 3 33.5
4	18 26 26	334 25 22.8	4	10 54 15	223 3 6.1
6	18 31 59	333 25 12.6	6	10 57 58	224 2 38.6



JUNE.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Saturday 17.</b>					
h	h m s	diff.	h	h m s	diff.
0	19 21 4		0	23 4 20	
2	19 26 24	320	2	23 8 26	246
4	19 31 42	318	4	23 12 31	245
6	19 36 58	316	6	23 16 36	244
8	19 42 13	315	8	23 20 40	244
10	19 47 26	313	10	23 24 43	243
12	19 52 37	311	12	23 28 46	243
14	19 57 46	309	14	23 32 48	242
16	20 2 53	307	16	23 36 50	242
18	20 7 58	305	18	23 40 51	241
20	20 13 2	304	20	23 44 52	240
22	20 18 3	301	22	23 48 52	240
		300			
<b>Sunday 18.</b>					
0	20 23 3	298	0	23 52 52	240
2	20 28 1	296	2	23 56 52	240
4	20 32 57	294	4	0 0 52	240
6	20 37 51	292	6	0 4 52	239
8	20 42 43	290	8	0 8 51	239
10	20 47 33	288	10	0 12 50	239
12	20 52 21	286	12	0 16 49	239
14	20 57 7	284	14	0 20 48	239
16	21 1 52	283	16	0 24 47	239
18	21 6 35	281	18	0 28 46	239
20	21 11 16	279	20	0 32 45	239
22	21 15 55	277	22	0 36 44	240
<b>Monday 19.</b>					
0	21 20 32	276	0	0 40 44	239
2	21 25 8	274	2	0 44 43	239
4	21 29 42	272	4	0 48 42	240
6	21 34 14	271	6	0 52 42	240
8	21 38 45	269	8	0 56 42	240
10	21 43 14	268	10	1 0 42	241
12	21 47 42	266	12	1 4 43	240
14	21 52 8	265	14	1 8 43	242
16	21 56 33	263	16	1 12 45	241
18	22 0 56	262	18	1 16 46	241
20	22 5 18	260	20	1 20 48	242
22	22 9 38	260	22	1 24 50	243
<b>Tuesday 20.</b>					
0	22 13 58	257	0	1 28 53	243
2	22 18 15	257	2	1 32 56	243
4	22 22 32	256	4	1 36 59	245
6	22 26 48	254	6	1 41 4	244
8	22 31 2	253	8	1 45 8	245
10	22 35 15	252	10	1 49 13	246
12	22 39 27	251	12	1 53 19	246
14	22 43 38	251	14	1 57 25	247
16	22 47 49	249	16	2 1 32	247
18	22 51 58	248	18	2 5 39	248
20	22 56 6	248	20	2 9 47	249
22	23 0 14	246	22	2 13 56	249
24	23 4 20		24	2 18 5	249
<b>Wednesday 21.</b>					
0	23 8 26		0	23 52 52	
2	23 12 31		2	23 56 52	
4	23 16 36		4	0 0 52	
6	23 20 40		6	0 4 52	
8	23 24 43		8	0 8 51	
10	23 28 46		10	0 12 50	
12	23 32 48		12	0 16 49	
14	23 36 50		14	0 20 48	
16	23 40 51		16	0 24 47	
18	23 44 52		18	0 28 46	
20	23 48 52		20	0 32 45	
22			22	0 36 44	
<b>Thursday 22.</b>					
0	23 52 52		0	0 40 44	
2	23 56 52		2	0 44 43	
4	0 0 52		4	0 48 42	
6	0 4 52		6	0 52 42	
8	0 8 51		8	0 56 42	
10	0 12 50		10	1 0 42	
12	0 16 49		12	1 4 43	
14	0 20 48		14	1 8 43	
16	0 24 47		16	1 12 45	
18	0 28 46		18	1 16 46	
20	0 32 45		20	1 20 48	
22	0 36 44		22	1 24 50	
<b>Friday 23.</b>					
0	0 40 44		0	1 28 53	
2	0 44 43		2	1 32 56	
4	0 48 42		4	1 36 59	
6	0 52 42		6	1 41 4	
8	0 56 42		8	1 45 8	
10	1 0 42		10	1 49 13	
12	1 4 43		12	1 53 19	
14	1 8 43		14	1 57 25	
16	1 12 45		16	2 1 32	
18	1 16 46		18	2 5 39	
20	1 20 48		20	2 9 47	
22	1 24 50		22	2 13 56	
<b>Saturday 24.</b>					
0	1 28 53		0	1 28 53	
2	1 32 56		2	1 32 56	
4	1 36 59		4	1 36 59	
6	1 41 4		6	1 41 4	
8	1 45 8		8	1 45 8	
10	1 49 13		10	1 49 13	
12	1 53 19		12	1 53 19	
14	1 57 25		14	1 57 25	
16	2 1 32		16	2 1 32	
18	2 5 39		18	2 5 39	
20	2 9 47		20	2 9 47	
22	2 13 56		22	2 13 56	
24	2 18 5		24	2 18 5	

JUNE.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Sunday 25.</b>					
h	h m s	diff.	h	h m s	diff.
0	2 18 5	250	0	2 18 5	250
2	2 22 15	250	2	2 22 15	250
4	2 26 25	251	4	2 26 25	251
6	2 30 36	252	6	2 30 36	252
8	2 34 48	252	8	2 34 48	252
10	2 39 0	253	10	2 39 0	253
12	2 43 13	253	12	2 43 13	253
14	2 47 26	255	14	2 47 26	255
16	2 51 41	254	16	2 51 41	254
18	2 55 55	256	18	2 55 55	256
20	3 0 11	256	20	3 0 11	256
22	3 4 27	257	22	3 4 27	257
<b>Monday 26.</b>					
0	3 8 44	257	0	3 8 44	257
2	3 13 1	258	2	3 13 1	258
4	3 17 19	259	4	3 17 19	259
6	3 21 38	259	6	3 21 38	259
8	3 25 57	259	8	3 25 57	259
10	3 30 16	261	10	3 30 16	261
12	3 34 37	260	12	3 34 37	260
14	3 38 57	261	14	3 38 57	261
16	3 43 19	261	16	3 43 19	261
18	3 47 40	263	18	3 47 40	263
20	3 52 3	262	20	3 52 3	262
22	3 56 25	264	22	3 56 25	264
<b>Tuesday 27.</b>					
0	4 0 49	263	0	4 0 49	263
2	4 5 12	264	2	4 5 12	264
4	4 9 36	264	4	4 9 36	264
6	4 14 0	265	6	4 14 0	265
8	4 18 25	265	8	4 18 25	265
10	4 22 50	265	10	4 22 50	265
12	4 27 15	266	12	4 27 15	266
14	4 31 41	265	14	4 31 41	265
16	4 36 6	266	16	4 36 6	266
18	4 40 32	266	18	4 40 32	266
20	4 44 58	266	20	4 44 58	266
22	4 49 24	266	22	4 49 24	266
<b>Wednesday 28.</b>					
0	4 53 50	267	0	4 53 50	267
2	4 58 17	266	2	4 58 17	266
4	5 2 43	266	4	5 2 43	266
6	5 7 9	266	6	5 7 9	266
8	5 11 36	267	8	5 11 36	267
10	5 16 2	266	10	5 16 2	266
12	5 20 28	266	12	5 20 28	266
14	5 24 54	266	14	5 24 54	266
16	5 29 19	265	16	5 29 19	265
18	5 33 45	265	18	5 33 45	265
20	5 38 10	265	20	5 38 10	265
22	5 42 35	265	22	5 42 35	265
24	5 46 59	264	24	5 46 59	264
<b>Thursday 29.</b>					
h	h m s	diff.	h	h m s	diff.
0	5 46 59	265	0	5 46 59	265
2	5 51 24	264	2	5 51 24	264
4	5 55 48	263	4	5 55 48	263
6	6 0 11	263	6	6 0 11	263
8	6 4 34	263	8	6 4 34	263
10	6 8 57	262	10	6 8 57	262
12	6 13 19	261	12	6 13 19	261
14	6 17 40	261	14	6 17 40	261
16	6 22 1	260	16	6 22 1	260
18	6 26 21	260	18	6 26 21	260
20	6 30 41	259	20	6 30 41	259
22	6 35 0	258	22	6 35 0	258
<b>Friday 30.</b>					
0	6 39 18	258	0	6 39 18	258
2	6 43 36	257	2	6 43 36	257
4	6 47 53	257	4	6 47 53	257
6	6 52 10	255	6	6 52 10	255
8	6 56 25	255	8	6 56 25	255
10	7 0 40	254	10	7 0 40	254
12	7 4 54	254	12	7 4 54	254
14	7 9 7	253	14	7 9 7	253
16	7 13 20	253	16	7 13 20	253
18	7 17 31	251	18	7 17 31	251
20	7 21 42	251	20	7 21 42	251
22	7 25 52	250	22	7 25 52	250
24	7 30 1	249	24	7 30 1	249

PHASES OF THE MOON.

Date	Phase	Time
June 8	) First Quarter.....	11 59
15	○ Full Moon.....	9 42
22	( Last Quarter.....	1 16
29	● New Moon.....	22 43
June 3	( Apogee.....	9 5
16	( Perigee.....	2 6
30	( Apogee.....	16 2

</



JULY.

C.M.T.		Right Ascension.		Declination.		C.M.T.		Right Ascension.		Declination.							
<b>Saturday 1.</b>																	
h	h	m	s	diff.	°	'	diff.	h	h	m	s	diff.	°	'	diff.		
0	7	30	1	248	N.	22	36.4	14.5	10	34	42	220	N.	5	21.4	26.7	
2	7	34	9	248		22	21.9	14.9	10	38	22	220		4	54.7	26.7	
4	7	38	17	246		22	7.0	15.2	10	42	2	220		4	28.0	26.8	
6	7	42	23	246		21	51.8	15.7	10	45	42	220		4	1.2	27.0	
8	7	46	29	244		21	36.1	16.0	10	49	22	220		3	34.2	27.0	
10	7	50	33	244		21	20.1	16.4	10	53	2	220		3	7.2	27.1	
12	7	54	37	243		21	3.7	16.7	10	56	42	221		2	40.1	27.2	
14	7	58	40	243		20	47.0	17.1	11	0	23	220		2	12.9	27.2	
16	8	2	43	241		20	29.9	17.5	11	4	3	220		1	45.6	27.3	
18	8	6	44	240		20	12.4	17.8	11	7	44	221		1	18.3	27.4	
20	8	10	44	240		19	54.6	18.2	11	11	25	222		0	50.9	27.5	
22	8	14	44	239	N.	19	36.4	18.4	11	15	7	221	N.	0	23.4	27.5	
<b>Sunday 2.</b>																	
0	8	18	43	238	N.	19	18.0	18.9	0	11	18	48	223	S.	0	4.1	27.6
2	8	22	41	237		18	59.1	19.1	2	11	22	31	222		0	31.7	27.6
4	8	26	38	236		18	40.0	19.4	4	11	26	13	223		0	59.3	27.6
6	8	30	34	235		18	20.6	19.8	6	11	29	56	224		1	26.9	27.7
8	8	34	29	235		18	0.8	20.0	8	11	33	40	224		1	54.6	27.7
10	8	38	24	234		17	40.8	20.4	10	11	37	24	224		2	22.2	27.7
12	8	42	18	233		17	20.4	20.6	12	11	41	8	225		2	49.9	27.7
14	8	46	11	232		16	59.8	21.0	14	11	44	53	226		3	17.6	27.7
16	8	50	3	232		16	38.8	21.2	16	11	48	39	227		3	45.3	27.7
18	8	53	55	231		16	17.6	21.5	18	11	52	26	227		4	13.0	27.7
20	8	57	46	230		15	56.1	21.7	20	11	56	13	228		4	40.7	27.7
22	9	1	36	229	N.	15	34.4	22.0	22	12	0	1	229	S.	5	8.4	27.6
<b>Monday 3.</b>																	
0	9	5	25	229	N.	15	12.4	22.3	0	12	3	50	230	S.	5	36.0	27.6
2	9	9	14	228		14	50.1	22.5	2	12	7	40	230		6	3.6	27.6
4	9	13	2	227		14	27.6	22.7	4	12	11	30	232		6	31.2	27.5
6	9	16	49	227		14	4.9	23.0	6	12	15	22	232		6	58.7	27.5
8	9	20	36	227		13	41.9	23.3	8	12	19	14	233		7	26.2	27.4
10	9	24	23	225		13	18.6	23.4	10	12	23	7	235		7	53.6	27.3
12	9	28	8	225		12	55.2	23.7	12	12	27	2	235		8	20.9	27.2
14	9	31	53	225		12	31.5	23.8	14	12	30	57	237		8	48.1	27.2
16	9	35	38	224		12	7.7	24.1	16	12	34	54	238		9	15.3	27.0
18	9	39	22	224		11	43.6	24.3	18	12	38	52	239		9	42.3	26.9
20	9	43	6	223		11	19.3	24.5	20	12	42	51	240		10	9.2	26.9
22	9	46	49	223	N.	10	54.8	24.7	22	12	46	51	242	S.	10	36.1	26.7
<b>Tuesday 4.</b>																	
0	9	50	32	222	N.	10	30.1	24.8	0	12	50	53	243	S.	11	2.8	26.5
2	9	54	14	222		10	5.3	25.0	2	12	54	56	244		11	29.3	26.4
4	9	57	56	222		9	40.3	25.3	4	12	59	0	246		11	55.7	26.3
6	10	1	38	221		9	15.0	25.3	6	13	3	6	247		12	22.0	26.1
8	10	5	19	221		8	49.7	25.6	8	13	7	13	249		12	48.1	25.9
10	10	9	0	221		8	24.1	25.6	10	13	11	22	250		13	14.0	25.7
12	10	12	41	221		7	58.5	25.9	12	13	15	32	252		13	39.7	25.6
14	10	16	22	220		7	32.6	26.0	14	13	19	44	253		14	5.3	25.3
16	10	20	2	220		6	6.6	26.1	16	13	23	57	255		14	30.6	25.1
18	10	23	42	220		6	40.5	26.2	18	13	28	12	257		15	55.7	24.9
20	10	27	22	220		6	14.3	26.4	20	13	32	29	258		15	20.6	24.7
22	10	31	2	220		5	47.9	26.5	22	13	36	47	260		15	45.3	24.3
24	10	34	42	220	N.	5	21.4	26.5	24	13	41	7	260	S.	16	9.6	24.3

JULY.

C.M.T.		Right Ascension.		Declination.		C.M.T.		Right Ascension.		Declination.							
<b>Sunday 9.</b>																	
h	h	m	s	diff.	°	'	diff.	h	h	m	s	diff.	°	'	diff.		
0	13	41	7	262	S.	16	9.6	24.2	0	17	45	3	336	S.	26	14.5	4.3
2	13	45	29	263		16	33.8	23.8	2	17	50	39	335		26	10.2	5.1
4	13	49	52	266		16	57.6	23.6	4	17	56	14	336		26	5.1	6.0
6	13	54	18	267		17	21.2	23.2	6	18	1	50	335		25	59.1	6.8
8	13	58	45	269		17	44.4	22.9	8	18	7	25	335		25	52.3	7.6
10	14	3	14	271		18	7.3	22.7	10	18	13	0	335		25	44.7	8.3
12	14	7	45	274		18	30.0	22.2	12	18	18	35	334		25	36.4	9.2
14	14	12	19	274		18	52.2	21.9	14	18	24	9	334		25	27.2	10.0
16	14	16	54	277		19	14.1	21.5	16	18	29	43	333		25	17.2	10.8
18	14	21	31	279		19	35.6	21.2	18	18	35	16	333		25	6.4	11.5
20	14	26	10	281		19	56.8	20.7	20	18	40	48	332		24	54.9	12.4
22	14	30	51	283	S.	20	17.5	20.4	22	18	46	19	331	S.	24	42.5	13.1
<b>Monday 10.</b>																	
0	14	35	34	285	S.	20	37.9	19.9	0	18	51	49	330	S.	24	29.4	13.8
2	14	40	19	287		20	57.8	19.4	2	18	57	19	328		24	15.6	14.6
4	14	45	6	289		21	17.2	19.0	4	19	2	47	327		24	1.0	15.3
6	14	49	55	291		21	36.2	18.6	6	19	8	14	326		23	45.7	16.0
8	14	54	46	293		21	54.8	18.0	8	19	13	40	325		23	29.7	16.8
10	14	59	39	296		22	12.8	17.6	10	19	19	5	325		23	12.9	17.4
12	15	4	35	297		22	30.4	17.0	12	19	24	28	322		22	55.5	18.1
14	15	9	32	299		22	47.4	16.5	14	19	29	50	320		22	37.4	18.8
16	15	14	31	302		23	3.9	15.9	16	19	35	10	319		22	18.6	19.4
18	15	19	33	303		23	19.8	15.4	18	19	40	29	319		21	59.2	20.1
20	15	24	36	305		23	35.2	14.8	20	19	45	46	317		21	39.1	20.7
22	15	29	41	307	S.	23	50.0	14.2	22	19	51	2	316	S.	21	18.4	21.3
<b>Tuesday 11.</b>																	
0	15	34	48	309	S.	24	4.2	13.6	0	19	56	16	313	S.	20	57.1	21.9
2	15	39	57	311		24	17.8	13.0	2	20	1	29	311		20	35.2	22.4
4	15	45	8	313		24	30.8	12.3	4	20	6	40	309		20	12.8	23.0
6	15	50	21	315		24	43.1	11.7	6	20	11	49	307		19	49.8	23.5
8	15	55	36	316		24	54.8	11.0	8	20	16	56	306		19	26.3	24.1
10	16	0	52	318		25	5.8	10.4	10	20	22	2	304		19	2.2	24.5
12	16	6	10	320		25	16.2	9.6	12	20	27	6	302		18	37.7	25.0
14	16	11	30	321		25	25.8	9.0	14	20	32	8	302		18	12.7	25.5
16	16	16	51	321		25	34.8	8.2	16	20	37	8	300		17	47.2	26.0
18	16	22	14	324		25	43.0	7.6	18	20	42	7	299		17	21.2	26.3
20	16	27	38	326		25	50.6	6.7	20	20	47	3	296		16	54.9	26.8
22	16	33	4	327	S.	25	57.3	6.1	22	20	51	59	293	S.	16	28.1	27.2
<b>Wednesday 12.</b>																	
0	16	38															



JULY.

G.M.T.		Right Ascension.			Declination.		
<b>Monday 17.</b>							
h	h	m	s	diff.	°	'	diff.
0	21	53	21	272	S.	10	10.7
2	21	57	53	271		9	40.0
4	22	2	24	270		9	9.2
6	22	6	54	268		8	38.2
8	22	11	22	267		8	7.1
10	22	15	49	265		7	35.9
12	22	20	14	265		7	4.5
14	22	24	39	263		6	33.2
16	22	29	2	262		6	1.7
18	22	33	24	260		5	30.2
20	22	37	44	260		4	58.6
22	22	42	4	259	S.	4	27.1
<b>Tuesday 18.</b>							
0	22	46	23	258	S.	3	55.5
2	22	50	41	256		3	23.9
4	22	54	57	256		2	52.3
6	22	59	13	255		2	20.8
8	23	3	28	254		1	49.3
10	23	7	42	253		1	17.8
12	23	11	55	253		0	46.4
14	23	16	8	252	S.	0	15.0
16	23	20	20	252	N.	0	16.2
18	23	24	31	251		0	47.4
20	23	28	41	250		1	18.4
22	23	32	51	249	N.	1	49.4
<b>Wednesday 19.</b>							
0	23	37	0	249	N.	2	20.2
2	23	41	9	249		2	50.9
4	23	45	18	247		3	21.4
6	23	49	25	248		3	51.8
8	23	53	33	247		4	22.1
10	23	57	40	247		4	52.1
12	0	1	47	246		5	22.0
14	0	5	53	246		5	51.7
16	0	9	59	246		6	21.2
18	0	14	5	246		6	50.5
20	0	18	11	246		7	19.6
22	0	22	17	245	N.	7	48.4
<b>Thursday 20.</b>							
0	0	26	22	245	N.	8	17.1
2	0	30	27	246		8	45.5
4	0	34	33	245		9	13.6
6	0	38	38	245		9	41.5
8	0	42	43	246		10	9.2
10	0	46	49	245		10	36.6
12	0	50	54	245		11	3.7
14	0	54	59	245		11	30.5
16	0	59	5	246		11	57.0
18	1	3	11	246		12	23.3
20	1	7	17	246		12	49.2
22	1	11	23	246		13	14.9
24	1	15	29	246	N.	13	40.2
<b>Friday 21.</b>							
h	h	m	s	diff.	°	'	diff.
0	1	15	29	247	N.	13	40.2
2	1	19	36	247		14	5.2
4	1	23	43	247		14	29.9
6	1	27	50	247		14	54.3
8	1	31	57	248		15	18.3
10	1	36	5	248		15	42.0
12	1	40	13	248		16	5.4
14	1	44	22	249		16	28.3
16	1	48	31	249		16	51.0
18	1	52	40	249		17	13.2
20	1	56	50	250		17	35.1
22	2	1	0	250	N.	17	56.6
<b>Saturday 22.</b>							
0	2	5	11	251	N.	18	17.8
2	2	9	22	251		18	38.5
4	2	13	33	252		18	58.9
6	2	17	45	253		19	18.8
8	2	21	58	253		19	38.4
10	2	26	11	253		19	57.5
12	2	30	24	254		20	16.3
14	2	34	38	255		20	34.6
16	2	38	53	255		20	52.5
18	2	43	8	255		21	9.9
20	2	47	24	256		21	27.0
22	2	51	40	257	N.	21	43.6
<b>Sunday 23.</b>							
0	2	55	57	257	N.	21	59.7
2	3	0	14	257		22	15.5
4	3	4	31	257		22	30.7
6	3	8	50	258		22	45.5
8	3	13	8	259		22	59.9
10	3	17	27	260		23	13.8
12	3	21	47	260		23	27.2
14	3	26	7	261		23	40.2
16	3	30	28	261		23	52.7
18	3	34	49	261		24	4.7
20	3	39	10	262		24	16.3
22	3	43	32	263	N.	24	27.3
<b>Monday 24.</b>							
0	3	47	55	262	N.	24	37.9
2	3	52	17	263		24	48.0
4	3	56	40	264		24	57.6
6	4	1	4	263		25	6.7
8	4	5	27	263		25	15.3
10	4	9	52	265		25	23.4
12	4	14	16	264		25	31.0
14	4	18	40	264		25	38.1
16	4	23	5	265		25	44.7
18	4	27	30	265		25	50.8
20	4	31	56	266		25	56.4
22	4	36	21	265		26	1.5
24	4	40	47	266	N.	26	6.0

JULY.

G.M.T.		Right Ascension.			Declination.		
<b>Tuesday 25.</b>							
h	h	m	s	diff.	°	'	diff.
0	4	40	47	265	N.	26	6.0
2	4	45	12	266		26	10.1
4	4	49	38	266		26	13.6
6	4	54	4	265		26	16.7
8	4	58	29	266		26	19.2
10	5	2	55	266		26	21.2
12	5	7	21	266		26	22.7
14	5	11	47	265		26	23.7
16	5	16	12	265		26	24.2
18	5	20	38	266		26	24.2
20	5	25	3	265		26	23.6
22	5	29	28	265	N.	26	22.6
<b>Wednesday 26.</b>							
0	5	33	53	264	N.	26	21.0
2	5	38	17	265		26	19.0
4	5	42	42	263		26	16.4
6	5	47	5	263		26	13.3
8	5	51	29	264		26	9.8
10	5	55	52	263		26	5.7
12	6	0	15	263		26	1.2
14	6	4	38	263		25	56.1
16	6	9	0	262		25	50.6
18	6	13	21	261		25	44.5
20	6	17	42	261		25	38.0
22	6	22	2	260	N.	25	31.0
<b>Thursday 27.</b>							
0	6	26	22	260	N.	25	23.5
2	6	30	42	258		25	15.6
4	6	35	0	258		25	7.2
6	6	39	18	258		24	58.3
8	6	43	36	256		24	49.0
10	6	47	52	256		24	39.2
12	6	52	8	256		24	28.9
14	6	56	24	256		24	18.2
16	7	0	38	254		24	7.1
18	7	4	52	254		23	55.5
20	7	9	6	254		23	43.5
22	7	13	18	252	N.	23	31.0
<b>Friday 28.</b>							
0	7	17	30	250	N.	23	18.1
2	7	21	40	250		23	4.9
4	7	25	50	250		22	51.2
6	7	30	0	248		22	37.0
8	7	34	8	248		22	22.5
10	7	38	16	246		22	7.6
12	7	42	22	246		21	52.3
14	7	46	28	246		21	36.6
16	7	50	34	244		21	20.6
18	7	54	38	243		21	4.1
20	7	58	41	243		20	47.3
22	8	2	44	243		20	30.1
24	8	6	46	242	N.	20	12.6
<b>Saturday 29.</b>							
h	h	m	s	diff.	°	'	diff.
0	8	6	46	241	N.	20	12.6
2	8	10	47	240		19	54.7
4	8	14	47	239		19	36.5
6	8	18	46	239		19	18.0
8	8	22	45	238		18	59.1
10	8	26	43	237		18	39.9
12	8	30	40	237		18	20.3
14	8	34	36	235		18	0.5
16	8	38	31	235		17	40.3
18	8	42	26	235		17	19.9
20	8	46	20	234		16	59.1
22	8	50	13	232	N.	16	38.1
<b>Sunday 30.</b>							
0	8	54	5	232	N.	16	16.8
2	8	57	57	231		15	55.2
4	9	1	48	230		15	33.3
6	9	5	38	230		15	11.2
8	9	9	28	229		14	48.8
10	9	13	17				



AUGUST.

G.M.T.		Right Ascension.				Declination.											
h	m	s	diff.	°	'	diff.	h	m	s	diff.	°	'	diff.				
<b>Tuesday 1.</b>																	
0	10	24	13	220	N.	6	36.8	26.3	0	13	27	11	251	S.	14	49.2	24.4
2	10	27	53	221		6	10.5	26.5	2	13	31	22	252		15	13.6	24.2
4	10	31	34	220		5	44.0	26.5	4	13	35	34	253		15	37.8	23.9
6	10	35	14	220		5	17.5	26.7	6	13	39	47	255		16	1.7	23.6
8	10	38	54	221		4	50.8	26.8	8	13	44	2	257		16	25.3	23.3
10	10	42	35	220		4	24.0	26.9	10	13	48	19	259		16	48.6	23.1
12	10	46	15	220		3	57.1	27.1	12	13	52	38	259		17	11.7	22.8
14	10	49	55	220		3	30.2	27.1	14	13	56	57	262		17	34.5	22.4
16	10	53	35	220		3	3.1	27.1	16	14	1	19	263		17	56.9	22.2
18	10	57	15	221		2	36.0	27.2	18	14	5	42	265		18	19.1	21.8
20	11	0	56	221		2	8.8	27.2	20	14	10	7	267		18	40.9	21.5
22	11	4	36	221	N.	1	41.5	27.3	22	14	14	34	268	S.	19	2.4	21.1
<b>Wednesday 2.</b>																	
0	11	8	17	221	N.	1	14.2	27.3	0	14	19	2	270	S.	19	23.5	20.7
2	11	11	58	221		0	46.9	27.3	2	14	23	32	270		19	44.2	20.4
4	11	15	39	221	N.	0	19.5	27.5	4	14	28	4	274		20	4.6	20.0
6	11	19	20	221	S.	0	8.0	27.5	6	14	32	38	275		20	24.6	19.6
8	11	23	1	222		0	35.5	27.5	8	14	37	13	278		20	44.2	19.1
10	11	26	43	223		1	3.0	27.5	10	14	41	51	279		21	3.3	18.8
12	11	30	26	222		1	30.5	27.5	12	14	46	30	281		21	22.1	18.2
14	11	34	3	223		1	58.0	27.6	14	14	51	11	283		21	40.3	17.9
16	11	37	51	223		2	25.6	27.6	16	14	55	54	284		21	58.2	17.4
18	11	41	35	224		2	53.1	27.6	18	15	0	38	286		22	15.6	16.8
20	11	45	19	224		3	20.7	27.5	20	15	5	24	289		22	32.4	16.4
22	11	49	3	225	S.	3	48.2	27.5	22	15	10	13	290	S.	22	48.8	15.9
<b>Thursday 3.</b>																	
0	11	52	48	226	S.	4	15.7	27.5	0	15	15	3	292	S.	23	4.7	15.4
2	11	56	34	226		4	43.2	27.4	2	15	19	55	293		23	20.1	14.9
4	12	0	20	227		5	10.6	27.4	4	15	24	48	296		23	35.0	14.2
6	12	4	7	228		5	38.0	27.3	6	15	29	44	297		23	49.2	13.8
8	12	7	55	228		6	5.3	27.3	8	15	34	41	299		24	3.0	13.2
10	12	11	43	230		6	32.6	27.2	10	15	39	40	300		24	16.2	12.6
12	12	15	33	230		6	59.8	27.1	12	15	44	40	300		24	28.8	11.9
14	12	19	22	229		7	26.9	27.1	14	15	49	43	303		24	40.7	11.4
16	12	23	13	231		7	54.0	27.0	16	15	54	47	305		24	52.1	10.3
18	12	27	5	232		8	21.0	26.9	18	15	59	52	307		25	2.9	10.2
20	12	30	58	233		8	47.9	26.7	20	16	4	59	309		25	13.1	9.4
22	12	34	51	235	S.	9	14.6	26.7	22	16	10	8	310	S.	25	22.5	8.9
<b>Friday 4.</b>																	
0	12	38	46	235	S.	9	41.3	26.5	0	16	15	18	312	S.	25	31.4	8.2
2	12	42	41	237		10	7.8	26.4	2	16	20	30	313		25	39.6	7.5
4	12	46	38	238		10	34.2	26.3	4	16	25	43	314		25	47.1	6.8
6	12	50	36	239		11	0.5	26.1	6	16	30	57	316		25	53.9	6.1
8	12	54	35	240		11	26.6	26.0	8	16	36	13	317		26	0.0	5.5
10	12	58	35	241		11	52.6	25.8	10	16	41	30	318		26	5.5	4.7
12	13	2	36	243		12	18.4	25.6	12	16	46	48	319		26	10.2	4.0
14	13	6	39	243		12	44.0	25.5	14	16	52	7	320		26	14.2	3.2
16	13	10	42	243		13	9.5	25.2	16	16	57	27	321		26	17.4	2.6
18	13	14	47	247		13	34.7	25.1	18	17	2	48	322		26	20.0	1.8
20	13	18	54	248		13	59.8	24.8	20	17	8	10	323		26	21.8	1.0
22	13	23	2	249		14	24.6	24.6	22	17	13	33	323		26	22.8	0.3
24	13	27	11	249	S.	14	49.2	24.6	24	17	18	56	323	S.	26	23.1	0.3

AUGUST.

G.M.T.		Right Ascension.				Declination.											
h	m	s	diff.	°	'	diff.	h	m	s	diff.	°	'	diff.				
<b>Wednesday 9.</b>																	
0	17	18	56	324	S.	26	23.1	0.5	0	21	28	36	282	S.	12	52.7	29.8
2	17	24	20	325		26	22.6	1.2	2	21	33	18	281		12	22.9	30.0
4	17	29	45	325		26	21.4	2.0	4	21	37	59	280		11	52.9	30.3
6	17	35	10	326		26	19.4	2.8	6	21	42	39	279		11	22.6	30.5
8	17	40	36	326		26	16.6	3.5	8	21	47	18	277		10	52.1	30.7
10	17	46	2	326		26	13.1	4.4	10	21	51	55	276		10	21.4	31.0
12	17	51	28	326		26	8.7	5.0	12	21	56	31	275		9	50.4	31.1
14	17	56	54	327		26	3.7	5.9	14	22	1	6	273		9	19.3	31.3
16	18	2	21	327		25	57.8	6.6	16	22	5	39	273		8	48.0	31.5
18	18	7	47	326		25	51.2	7.5	18	22	10	12	273		8	16.5	31.6
20	18	13	13	326		25	43.7	8.1	20	22	14	43	270		7	44.9	31.7
22	18	18	39	326	S.	25	35.6	9.0	22	22	19	13	269	S.	7	13.2	31.8
<b>Thursday 10.</b>																	
0	18	24	5	326	S.	25	26.6	9.7	0	22	23	42	268	S.	6	41.4	32.0
2	18	29	31	325		25	16.9	10.4	2	22	28	10	267		6	9.4	32.0
4	18	34	56	324		25	6.5	11.2	4	22	32	37	266		5	37.4	32.1
6	18	40	20	324		24	55.3	12.0	6	22	37	3	265		5	5.3	32.1
8	18	45	44	324		24	43.3	12.7	8	22	41	28	265		4	33.2	32.2
10	18	51	8	322		24	30.6	13.4	10	22	45	52	263		4	1.0	32.2
12	18	56	30	322		24	17.2	14.2	12	22	50	15	263		3	28.8	32.2
14	19	1	52	321		24	3.0	14.8	14	22	54	38	263		2	56.6	32.2
16	19	7	13	320		23	48.2	15.6	16	22	58	59	261		2	24.4	32.2
18	19	12	33	319		23	32.6	16.3	18	23	3	20	260		1	52.2	32.1
20	19	17	52	318		23	16.3	16.9	20	23	7	40	260		1	20.1	32.1
22	19	23	10	318	S.	22	59.4	17.7	22	23	12	0	258	S.	0	48.0	32.1
<b>Friday 11.</b>																	
0	19	28	28	315	S.	22	41.7	18.3	0	23	16	18	258	S.	0	15.9	32.0
2	19	33	43	315		22	23.4	18.9	2	23	20	36	258	N.	0	16.1	31.8
4	19	38	58	314		22	4.5	19.6	4	23	24	54	257		0	47.9	31.8
6	19	44	12	312		21	44.9	20.2	6	23	29	11	256		1	19.7	31.7
8	19	49	24	311		21	24.7	20.8	8	23	33	27	256		1	51.4	31.6
10	19	54	35	310		21	3.9	21.4	10	23	37	43	256		2	23.0	31.5
12	19	59	45	308		20	42.5	22.0	12	23	41	59	255		2	54.5	31.3
14	20	4	53	307		20	20.5	22.6	14	23	46	14	254		3	25.8	31.1
16	20	10	0	306		19	57.9	23.1	16	23	50	28	254		3	56.9	31.0
18	20	15	6	306		19	34.8	23.6	18	23	54	43	254		4	27.9	30.8
20	20	20	10	304		19	11.2	24.2	20	23	58	57	253		4	58.7	30.6
22	20	25	13	301	S.	18	47.0	24.7	22	0</							



AUGUST.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Thursday 17.</b>					
h	h m s	diff.	h	h m s	diff.
0	0 57 56		0	4 26 5	
2	1 2 9	253	2	4 30 33	268
4	1 6 22	253	4	4 35 0	267
6	1 10 35	253	6	4 39 27	267
8	1 14 49	254	8	4 43 55	268
10	1 19 2	253	10	4 48 22	267
12	1 23 16	254	12	4 52 49	267
14	1 27 30	254	14	4 57 16	267
16	1 31 44	254	16	5 1 43	267
18	1 35 59	255	18	5 6 10	267
20	1 40 13	254	20	5 10 37	267
22	1 44 29	255	22	5 15 4	266
<b>Friday 18.</b>					
0	1 48 44	256	0	5 19 30	266
2	1 53 0	256	2	5 23 56	266
4	1 57 16	256	4	5 28 22	266
6	2 1 32	257	6	5 32 48	265
8	2 5 49	258	8	5 37 13	265
10	2 10 7	257	10	5 41 38	264
12	2 14 24	258	12	5 46 2	264
14	2 18 42	259	14	5 50 26	264
16	2 23 1	259	16	5 54 50	263
18	2 27 20	259	18	5 59 13	263
20	2 31 39	259	20	6 3 36	262
22	2 35 58	260	22	6 7 58	262
<b>Saturday 19.</b>					
0	2 40 18	261	0	6 12 20	261
2	2 44 39	261	2	6 16 41	261
4	2 49 0	261	4	6 21 2	259
6	2 53 21	262	6	6 25 21	260
8	2 57 43	262	8	6 29 41	259
10	3 2 5	262	10	6 34 0	258
12	3 6 27	263	12	6 38 18	257
14	3 10 50	263	14	6 42 35	257
16	3 15 14	264	16	6 46 52	257
18	3 19 37	264	18	6 51 8	256
20	3 24 1	264	20	6 55 24	254
22	3 28 25	265	22	6 59 38	254
<b>Sunday 20.</b>					
0	3 32 50	265	0	7 3 52	253
2	3 37 15	265	2	7 8 5	253
4	3 41 40	266	4	7 12 18	251
6	3 46 6	266	6	7 16 29	251
8	3 50 32	266	8	7 20 40	251
10	3 54 58	266	10	7 24 51	249
12	3 59 24	266	12	7 29 0	249
14	4 3 50	267	14	7 33 9	247
16	4 8 17	267	16	7 37 16	247
18	4 12 44	267	18	7 41 23	247
20	4 17 11	267	20	7 45 30	245
22	4 21 38	267	22	7 49 35	245
24	4 26 5	267	24	7 53 40	245
<b>Monday 21.</b>					
0	4 26 5		0	25 45.1	
2	4 30 33	268	2	25 50.9	5.8
4	4 35 0	267	4	25 56.2	5.3
6	4 39 27	267	6	26 1.0	4.8
8	4 43 55	268	8	26 5.3	4.3
10	4 48 22	267	10	26 9.0	3.7
12	4 52 49	267	12	26 12.2	3.2
14	4 57 16	267	14	26 14.9	2.7
16	5 1 43	267	16	26 17.1	2.2
18	5 6 10	267	18	26 18.8	1.7
20	5 10 37	267	20	26 20.0	1.2
22	5 15 4	266	22	26 20.6	0.6
<b>Tuesday 22.</b>					
0	5 19 30	266	0	26 20.7	0.3
2	5 23 56	266	2	26 20.4	0.9
4	5 28 22	266	4	26 19.5	1.4
6	5 32 48	266	6	26 18.1	1.9
8	5 37 13	265	8	26 16.2	2.5
10	5 41 38	264	10	26 13.7	2.9
12	5 46 2	264	12	26 10.8	3.4
14	5 50 26	264	14	26 7.4	3.9
16	5 54 50	263	16	26 3.5	4.4
18	5 59 13	263	18	25 59.1	4.9
20	6 3 36	262	20	25 54.2	5.4
22	6 7 58	262	22	25 48.8	5.9
<b>Wednesday 23.</b>					
0	6 12 20	261	0	25 42.9	6.3
2	6 16 41	261	2	25 36.6	6.9
4	6 21 2	259	4	25 29.7	7.3
6	6 25 21	260	6	25 22.4	7.8
8	6 29 41	259	8	25 14.6	8.2
10	6 34 0	258	10	25 6.4	8.8
12	6 38 18	257	12	24 57.6	9.1
14	6 42 35	257	14	24 48.5	9.7
16	6 46 52	257	16	24 38.8	10.1
18	6 51 8	256	18	24 28.7	10.5
20	6 55 24	254	20	24 18.2	11.0
22	6 59 38	254	22	24 7.2	11.4
<b>Thursday 24.</b>					
0	7 3 52	253	0	23 55.8	11.9
2	7 8 5	253	2	23 43.9	12.2
4	7 12 18	251	4	23 31.7	12.7
6	7 16 29	251	6	23 19.0	13.2
8	7 20 40	251	8	23 5.8	13.5
10	7 24 51	249	10	22 52.3	13.9
12	7 29 0	249	12	22 38.4	14.4
14	7 33 9	247	14	22 24.0	14.7
16	7 37 16	247	16	22 9.3	15.2
18	7 41 23	247	18	21 54.1	15.5
20	7 45 30	245	20	21 38.6	15.9
22	7 49 35	245	22	21 22.7	16.3
24	7 53 40	245	24	21 6.4	

AUGUST.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Friday 25.</b>					
h	h m s	diff.	h	h m s	diff.
0	7 53 40	243	0	21 6.4	16.7
2	7 57 43	244	2	20 49.7	17.0
4	8 1 47	242	4	20 32.7	17.4
6	8 5 49	241	6	20 15.3	17.7
8	8 9 50	241	8	19 57.6	18.1
10	8 13 51	240	10	19 39.5	18.4
12	8 17 51	239	12	19 21.1	18.8
14	8 21 50	239	14	19 2.3	19.1
16	8 25 49	237	16	18 43.2	19.4
18	8 29 46	237	18	18 23.8	19.8
20	8 33 43	236	20	18 4.0	20.0
22	8 37 39	236	22	17 44.0	20.4
<b>Saturday 26.</b>					
0	8 41 35	235	0	17 23.6	20.6
2	8 45 30	234	2	17 3.0	21.0
4	8 49 24	233	4	16 42.0	21.3
6	8 53 17	233	6	16 20.7	21.5
8	8 57 10	232	8	15 59.2	21.8
10	9 1 2	232	10	15 37.4	22.1
12	9 4 54	231	12	15 15.3	22.3
14	9 8 45	230	14	14 53.0	22.6
16	9 12 35	230	16	14 30.4	22.9
18	9 16 25	229	18	14 7.5	23.1
20	9 20 14	229	20	13 44.4	23.3
22	9 24 2	228	22	13 21.1	23.6
<b>Sunday 27.</b>					
0	9 27 50	228	0	12 57.5	23.8
2	9 31 38	227	2	12 33.7	24.0
4	9 35 25	227	4	12 9.7	24.3
6	9 39 12	226	6	11 45.4	24.4
8	9 42 58	226	8	11 21.0	24.7
10	9 46 44	225	10	10 56.3	24.8
12	9 50 29	225	12	10 31.5	25.0
14	9 54 14	225	14	10 6.5	25.3
16	9 57 59	224	16	9 41.2	25.4
18	10 1 43	224	18	9 15.8	25.5
20	10 5 27	224	20	8 50.3	25.8
22	10 9 11	223	22	8 24.5	25.9
<b>Monday 28.</b>					
0	10 12 54	224	0	7 58.6	26.0
2	10 16 38	223	2	7 32.6	26.2
4	10 20 21	223	4	7 6.4	26.3
6	10 24 4	222	6	6 40.1	26.5
8	10 27 46	222	8	6 13.6	26.6
10	10 31 29	222	10	5 47.0	26.7
12	10 35 11	222	12	5 20.3	26.8
14	10 38 54	222	14	4 53.5	27.0
16	10 42 36	222	16	4 26.5	27.0
18	10 46 19	222	18	3 59.5	27.1
20	10 50 1	222	20	3 32.4	27.2
22	10 53 44	222	22	3 5.2	27.3
24	10 57 26	222	24	2 37.9	
<b>Tuesday 29.</b>					
h	h m s	diff.	h	h m s	diff.
0	10 57 26	223	0	2 37.9	
2	11 1 9	223	2	2 10.5	27.4
4	11 4 52	223	4	1 43.1	27.4
6	11 8 35	223	6	1 15.6	27.5
8	11 12 18	223	8	0 48.1	27.5
10	11 16 1	223	10	0 20.5	27.6
12	11 19 45	224	12	0 7.1	27.6
14	11 23 29	224	14	0 34.8	27.6
16	11 27 13	224	16	1 2.4	27.6
18	11 30 57	224	18	1 30.1	27.7
20	11 34 42	225	20	1 57.8	27.7
22	11 38 28	225	22	2 25.5	27.7
<b>Wednesday 30.</b>					
0	11 42 13	226	0	2 53.2	27.7
2	11 45 59	227	2	3 20.9	27.7
4	11 49 46	227	4	3 48.6	27.6
6	11 53 33	228	6	4 16.2	27.6
8	11 57 21	228	8	4 43.8	27.6
10	12 1 10	229	10	5 11.4	27.5
12	12 4 59	229	12	5 38.9	27.5
14	12 8 48	229	14	6 6.3	27.4
16	12 12 39	231	16	6 33.7	27.4
18	12 16 30	231	18	7 1.0	27.3
20	12 20 22	232	20	7 28.2	27.2
22	12 24 14	234	22	7 55.3	27.0
<b>Thursday 31.</b>					
0	12 28 8	234	0	8 22.3	27.0
2	12 32 2	235	2	8 49.3	26.8



SEPTEMBER.

G.M.T.		Right Ascension.				Declination.				
<b>Friday 1.</b>										
h	m	s	diff.	°	'	diff.	h	m	s	
0	13	16	5	247	S.	13	35	7	24	9
2	13	20	12	248		14	0	6	24	7
4	13	24	20	249		14	25	3	24	4
6	13	28	29	251		14	49	7	24	2
8	13	32	40	252		15	13	9	24	0
10	13	36	52	253		15	37	9	23	6
12	13	41	5	255		16	1	5	23	3
14	13	45	20	255		16	24	9	23	2
16	13	49	36	258		16	48	1	22	8
18	13	53	54	259		17	10	9	22	5
20	13	58	13	260		17	33	4	22	2
22	14	2	33	262	S.	17	55	6	21	8
<b>Saturday 2.</b>										
0	14	6	55	263	S.	18	17	4	21	5
2	14	11	18	265		18	38	9	21	2
4	14	15	43	267		19	0	1	20	8
6	14	20	10	268		19	20	9	20	4
8	14	24	38	269		19	41	3	20	0
10	14	29	7	271		20	1	3	19	6
12	14	33	38	273		20	20	9	19	3
14	14	38	11	274		20	40	2	18	8
16	14	42	45	274		20	59	0	18	0
18	14	47	20	275		21	17	3	18	3
20	14	51	58	278		21	35	3	18	0
22	14	56	37	279	S.	21	52	8	17	0
<b>Sunday 3.</b>										
0	15	1	17	282	S.	22	9	8	16	5
2	15	5	59	283		22	26	3	16	1
4	15	10	42	286		22	42	4	15	5
6	15	15	28	286		22	57	9	15	1
8	15	20	14	288		23	13	0	14	5
10	15	25	2	290		23	27	5	14	0
12	15	29	52	291		23	41	5	13	4
14	15	34	43	293		23	54	9	13	4
16	15	39	36	294		24	7	8	12	9
18	15	44	30	297		24	20	1	12	3
20	15	49	25	297		24	31	9	11	2
22	15	54	22	298	S.	24	43	1	10	6
<b>Monday 4.</b>										
0	15	59	20	300	S.	24	53	7	9	9
2	16	4	20	300		25	3	6	9	4
4	16	9	20	302		25	13	0	8	7
6	16	14	22	304		25	21	7	8	2
8	16	19	26	304		25	29	9	7	4
10	16	24	30	306		25	37	3	7	4
12	16	29	36	306		25	44	2	6	9
14	16	34	42	308		25	50	3	6	1
16	16	39	50	310		25	55	8	5	5
18	16	44	58	310		26	0	7	4	9
20	16	50	8	310		26	4	8	3	5
22	16	55	18	311		26	8	3	3	5
24	17	0	29	311	S.	26	11	1	2	8
<b>Tuesday 5.</b>										
0	17	0	29	312	S.	26	11	1	2	1
2	17	5	41	312		26	13	2	1	4
4	17	10	53	313		26	14	6	0	7
6	17	16	6	314		26	15	3	0	0
8	17	21	20	314		26	15	3	0	8
10	17	26	34	314		26	14	5	1	4
12	17	31	48	314		26	13	1	1	4
14	17	37	3	315		26	10	9	2	2
16	17	42	18	315		26	8	1	2	8
18	17	47	34	316		26	4	5	3	6
20	17	52	49	315		26	0	2	4	3
22	17	58	4	315	S.	25	55	1	5	1
<b>Wednesday 6.</b>										
0	18	3	20	315	S.	25	49	4	6	5
2	18	8	35	316		25	42	9	7	2
4	18	13	51	315		25	35	7	7	9
6	18	19	6	314		25	27	8	8	6
8	18	24	20	314		25	19	2	9	3
10	18	29	35	315		25	9	9	10	0
12	18	34	49	314		24	59	9	10	7
14	18	40	3	314		24	49	2	11	5
16	18	45	16	313		24	37	7	11	5
18	18	50	28	312		24	25	6	12	1
20	18	55	40	312		24	12	8	12	8
22	19	0	52	312	S.	23	59	4	13	4
<b>Thursday 7.</b>										
0	19	6	2	310	S.	23	45	2	14	8
2	19	11	12	309		23	30	4	15	4
4	19	16	21	308		23	15	0	16	1
6	19	21	29	307		22	58	9	16	7
8	19	26	36	306		22	42	2	17	4
10	19	31	42	306		22	24	8	18	0
12	19	36	48	306		22	6	8	18	5
14	19	41	52	304		21	48	3	19	2
16	19	46	55	303		21	29	1	19	8
18	19	51	57	302		21	9	3	20	3
20	19	56	59	302		20	49	0	20	9
22	20	1	59	300	S.	20	28	1	21	5
<b>Friday 8.</b>										
0	20	6	57	298	S.	20	6	6	22	0
2	20	11	55	297		19	44	6	22	5
4	20	16	52	295		19	22	1	23	0
6	20	21	47	294		18	59	1	23	5
8	20	26	41	294		18	35	6	24	0
10	20	31	34	293		18	11	6	24	5
12	20	36	26	292		17	47	1	25	0
14	20	41	16	290		17	22	1	25	0
16	20	46	6	290		16	56	7	25	8
18	20	50	54	288		16	30	9	26	2
20	20	55	41	287		16	4	7	26	6
22	21	0	27	286		15	38	1	26	6
24	21	5	11	284	S.	15	11	0	27	1

SEPTEMBER.

G.M.T.		Right Ascension.				Declination.				
<b>Saturday 9.</b>										
h	m	s	diff.	°	'	diff.	h	m	s	
0	21	5	11	284	S.	15	11	0	27	4
2	21	9	55	282		14	43	6	27	7
4	21	14	37	281		14	15	9	28	1
6	21	19	18	280		13	47	8	28	5
8	21	23	58	279		13	19	3	28	7
10	21	28	37	278		12	50	6	29	1
12	21	33	15	276		12	21	5	29	1
14	21	37	51	276		11	52	2	29	3
16	21	42	27	275		11	22	6	29	9
18	21	47	2	275		10	52	7	29	9
20	21	51	35	273		10	22	6	30	1
22	21	56	8	271	S.	9	52	3	30	3
<b>Sunday 10.</b>										
0	22	0	39	271	S.	9	21	7	30	7
2	22	5	10	270		8	51	0	30	9
4	22	9	40	269		8	20	1	30	9
6	22	14	9	268		7	49	0	31	1
8	22	18	37	267		7	17	7	31	3
10	22	23	4	266		6	46	4	31	3
12	22	27	30	266		6	14	9	31	5
14	22	31	56	266		5	43	2	31	7
16	22	36	21	265		5	11	5	31	7
18	22	40	45	264		4	39	7	31	8
20	22	45	8	263		4	7	9	31	8
22	22	49	31	262	S.	3	36	0	31	9
<b>Monday 11.</b>										
0	22	53	53	262	S.	3	4	0	31	9
2	22	58	15	261		2	32	1	32	0
4	23	2	36	261		2	0	1	32	0
6	23	6	57	260		1	28	1	32	0
8	23	11	17	259		0	56	1	31	9
10	23	15	36	259	S.	0	24	2	31	9
12	23	19	56	260	N.	0	7	7	31	9
14	23	24	14	258		0	39	6	31	9
16	23	28	33	259		1	11	4	31	8
18	23	32	51	258		1	43	1	31	7
20	23	37	9	257		2	14	7	31	6
22	23	41	26	258	N.	2	46	2	31	4
<b>Tuesday 12.</b>										
0	23	45	44	257	N.	3	17	6	31	2
2	23	50	1	257		3	48	8	31	2
4	23	54	18	256		4	20	0	30	9
6	23	58	34	257		4	50	9	30	8
8	0	2	51	257		5	21	7	30	8
10	0	7	8	256		5	52	4	30	7
12	0	11	24	256		6	22	8	30	4
14	0	15	41	257		6	53	1	30	3
16	0	19	57	256		7	23	1	30	0
18	0	24	13	256		7				



SEPTEMBER.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Sunday 17.</b>					
h	h m s	diff. ° /	h	h m s	diff. ° /
0	4 8 25	271 N. 25 6.0	0	7 38 39	246 N. 21 55.0
2	4 12 56	271 25 14.0	2	7 42 45	246 21 39.8
4	4 17 27	271 25 21.4	4	7 46 51	245 21 24.3
6	4 21 58	271 25 28.3	6	7 50 56	244 21 8.3
8	4 26 29	272 25 34.7	8	7 55 0	243 20 52.1
10	4 31 1	271 25 40.5	10	7 59 3	242 20 35.4
12	4 35 32	271 25 45.8	12	8 3 5	242 20 18.4
14	4 40 3	271 25 50.6	14	8 7 7	241 19 1.0
16	4 44 34	270 25 54.9	16	8 11 8	240 19 43.3
18	4 49 4	271 25 58.6	18	8 15 8	240 19 25.3
20	4 53 35	270 26 1.8	20	8 19 7	239 19 6.9
22	4 58 5	270 N. 26 4.4	22	8 23 6	238 N. 18 48.2
<b>Monday 18.</b>					
0	5 2 35	270 N. 26 6.5	0	8 27 4	237 N. 18 29.1
2	5 7 5	270 26 8.1	2	8 31 1	236 18 9.8
4	5 11 35	269 26 9.2	4	8 34 57	236 17 50.1
6	5 16 4	269 26 9.8	6	8 38 53	235 17 30.1
8	5 20 33	268 26 9.8	8	8 42 48	234 17 9.8
10	5 25 1	268 26 9.3	10	8 46 42	234 16 49.2
12	5 29 29	268 26 8.3	12	8 50 36	233 16 28.3
14	5 33 57	267 26 6.8	14	8 54 29	233 16 7.1
16	5 38 24	267 26 4.7	16	8 58 21	232 15 45.7
18	5 42 50	266 26 2.2	18	9 2 13	232 15 23.9
20	5 47 17	267 25 59.1	20	9 6 4	231 15 1.9
22	5 51 42	265 N. 25 55.6	22	9 9 55	231 N. 14 39.7
<b>Tuesday 19.</b>					
0	5 56 7	265 N. 25 51.5	0	9 13 45	230 N. 14 17.2
2	6 0 32	264 25 47.0	2	9 17 35	229 13 54.4
4	6 4 56	263 25 41.9	4	9 21 24	229 13 31.4
6	6 9 19	263 25 36.4	6	9 25 13	228 13 8.1
8	6 13 42	262 25 30.4	8	9 29 1	228 12 44.6
10	6 18 4	262 25 23.9	10	9 32 49	227 12 20.9
12	6 22 25	261 25 16.9	12	9 36 36	227 11 56.9
14	6 26 46	261 25 9.5	14	9 40 23	227 11 32.7
16	6 31 5	259 25 1.6	16	9 44 10	227 11 8.3
18	6 35 25	260 24 53.2	18	9 47 56	226 10 43.7
20	6 39 43	258 24 44.4	20	9 51 42	226 10 18.9
22	6 44 1	257 N. 24 35.1	22	9 55 28	225 N. 9 53.9
<b>Wednesday 20.</b>					
0	6 48 18	256 N. 24 25.3	0	9 59 13	225 N. 9 28.8
2	6 52 34	255 24 15.1	2	10 2 58	225 9 3.4
4	6 56 49	255 24 4.5	4	10 6 43	225 8 37.9
6	7 1 4	254 23 53.4	6	10 10 28	225 8 12.2
8	7 5 18	254 23 41.9	8	10 14 12	224 7 46.3
10	7 9 31	253 23 30.0	10	10 17 57	224 7 20.2
12	7 13 43	252 23 17.6	12	10 21 41	224 6 54.0
14	7 17 54	251 23 4.9	14	10 25 25	224 6 27.7
16	7 22 5	251 22 51.7	16	10 29 10	224 6 1.2
18	7 26 15	250 22 38.1	18	10 32 54	224 5 34.6
20	7 30 23	248 22 24.1	20	10 36 38	224 5 7.9
22	7 34 32	249 22 9.7	22	10 40 22	224 4 41.0
24	7 38 39	247 N. 21 55.0	24	10 44 6	224 N. 4 14.1
<b>Thursday 21.</b>					
<b>Friday 22.</b>					
<b>Saturday 23.</b>					
<b>Sunday 24.</b>					

SEPTEMBER.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Monday 25.</b>					
h	h m s	diff. ° /	h	h m s	diff. ° /
0	10 44 6	225 N. 4 14.1	0	13 54 22	263 S. 17 4.3
2	10 47 51	224 3 47.0	2	13 58 45	263 17 26.9
4	10 51 35	224 3 19.8	4	14 3 10	265 17 49.2
6	10 55 20	224 2 52.5	6	14 7 36	266 18 11.2
8	10 59 4	224 2 25.2	8	14 12 3	267 18 32.8
10	11 2 49	225 1 57.7	10	14 16 32	269 18 54.0
12	11 6 35	225 1 30.2	12	14 21 2	270 19 14.8
14	11 10 20	226 1 2.7	14	14 25 34	272 19 35.3
16	11 14 6	226 0 35.0	16	14 30 7	273 19 55.3
18	11 17 52	226 N. 0 7.3	18	14 34 4.2	275 20 15.0
20	11 21 38	226 S. 0 20.4	20	14 39 18	276 20 34.2
22	11 25 25	227 S. 0 48.2	22	14 43 56	278 S. 20 52.9
<b>Tuesday 26.</b>					
0	11 29 12	228 S. 1 16.0	0	14 48 35	280 S. 21 11.3
2	11 33 0	228 1 43.8	2	14 53 15	282 21 29.1
4	11 36 48	229 2 11.6	4	14 57 57	284 21 46.5
6	11 40 37	229 2 39.5	6	15 2 41	285 22 3.4
8	11 44 26	229 3 7.3	8	15 7 26	285 22 19.8
10	11 48 16	230 3 35.1	10	15 12 12	286 22 35.7
12	11 52 6	230 4 3.0	12	15 16 59	287 22 51.1
14	11 55 57	231 4 30.7	14	15 21 48	289 23 6.0
16	11 59 49	232 4 58.5	16	15 26 39	291 23 20.3
18	12 3 41	232 5 26.2	18	15 31 31	292 23 34.1
20	12 7 34	233 5 53.9	20	15 36 24	293 23 47.3
22	12 11 28	234 S. 6 21.5	22	15 41 18	294 23 59.9
<b>Wednesday 27.</b>					
0	12 15 23	235 S. 6 49.0	0	15 46 13	295 S. 24 12.0
2	12 19 18	235 7 16.4	2	15 51 7	295 24 25.9
4	12 23 14	236 7 43.8	4	15 56 2	295 24 39.8
6	12 27 11	237 8 11.1	6	16 0 57	295 24 53.7
8	12 31 9	238 8 38.2	8	16 5 52	295 25 7.6
10	12 35 8	239 9 5.3	10	16 10 47	295 25 21.5
12	12 39 8	240 9 32.2	12	16 15 42	295 25 35.4
14	12 43 9	241 9 59.0	14	16 20 37	295 25 49.3
16	12 47 11	242 10 25.7	16	16 25 32	295 25 63.2
18	12 51 14	243 10 52.2	18	16 30 27	295 25 77.1
20	12 55 18	244 11 18.5	20	16 35 22	295 25 91.0
22	12 59 23	245 S. 11 44.7	22	16 40 17	295 25 104.9
<b>Thursday 28.</b>					
0	13 3 30	247 S. 12 10.6	0	13 45 12	261 S. 17 4.3
2	13 7 37	249 12 36.4	2	13 50 7	261 17 18.2
4	13 11 46	250 13 2.0	4	13 55 2	261 17 32.1
6	13 15 56	251 13 27.4	6	14 0 57	261 17 46.0
8	13 20 7	252 13 52.5	8	14 6 52	261 18 0.0
10	13 24 19	254 14 17.4	10	14 13 47	261 18 14.0
12	13 28 33	255 14 42.1	12	14 20 42	261 18 28.0
14	13 32 48	255 15 6.5	14	14 27 37	261 18 42.0
16	13 37 4	257 15 30.6	16	14 34 32	261 18 56.0
18	13 41 21	259 15 54.5	18	14 41 27	261 19 10.0
20	13 45 40	261 16 18.1	20	14 48 22	261 19 24.0
22	13 50 1	261 16 41.3	22	14 55 17	261 19 38.0
24	13 54 22	261 S. 17 4.3	24	15 0 12	261 19 52.0

PHASES OF THE MOON.

Sept. 4	)	First Quarter ...	16 27
11	o	Full Moon.....	8 31
18	(	Last Quarter .....	17 35
26	●	New Moon.....	19 34
h m			
Sept. 9	(	Perigee .....	1.4
20	(	Apogee .....	21.6
h			



OCTOBER.

C.M.T.		Right Ascension.		Declination.		C.M.T.		Right Ascension.		Declination.							
<b>Sunday 1.</b>																	
h	h	m	s	diff.	°	'	diff.	h	h	m	s	diff.	°	'	diff.		
0	15	46	13	297	S.	24	12-0	11-5	0	19	50	15	293	S.	21	3-4	19-5
2	15	51	10	298		24	23-5	10-9	2	19	55	8	292		20	43-9	20-0
4	15	56	8	299		24	34-4	10-3	4	20	0	0	291		20	23-9	20-5
6	16	1	7	300		24	44-7	9-7	6	20	4	51	289		20	3-4	21-0
8	16	6	7	301		24	54-4	9-0	8	20	9	40	289		19	42-4	21-5
10	16	11	8	302		25	3-4	8-5	10	20	14	29	287		19	20-9	21-9
12	16	16	10	303		25	11-9	7-8	12	20	19	16	286		18	59-0	22-2
14	16	21	13	304		25	19-7	7-1	14	20	24	2	285		18	36-5	22-9
16	16	26	17	305		25	26-8	6-6	16	20	28	47	283		18	13-6	23-3
18	16	31	22	306		25	33-4	5-8	18	20	33	30	283		17	50-3	23-8
20	16	36	28	306		25	39-2	5-2	20	20	38	13	281		17	26-5	24-2
22	16	41	34	307	S.	25	44-4	4-5	22	20	42	54	280	S.	17	2-3	24-6
<b>Monday 2.</b>																	
0	16	46	41	308	S.	25	48-9	3-9	0	20	47	34	280	S.	16	37-7	25-0
2	16	51	49	308		25	52-8	3-2	2	20	52	14	278		16	12-7	25-4
4	16	56	57	309		25	56-0	2-5	4	20	56	52	276		15	47-3	25-7
6	17	2	6	310		25	58-5	1-8	6	21	1	28	276		15	21-6	26-1
8	17	7	16	310		26	0-3	1-2	8	21	6	4	275		14	55-5	26-5
10	17	12	25	309		26	1-5	0-4	10	21	10	39	274		14	29-0	26-8
12	17	17	35	310		26	1-9	0-2	12	21	15	13	272		14	2-2	27-1
14	17	22	45	311		26	1-7	1-0	14	21	19	45	272		13	35-1	27-4
16	17	27	56	311		26	0-7	1-6	16	21	24	17	270		13	7-7	27-7
18	17	33	6	311		25	59-1	2-3	18	21	28	47	270		12	40-0	27-7
20	17	38	17	311		25	56-8	3-0	20	21	33	17	269	S.	11	12-0	28-0
22	17	43	28	310	S.	25	53-8	3-7	22	21	37	46	268	S.	11	43-7	28-3
<b>Tuesday 3.</b>																	
0	17	48	38	311	S.	25	50-1	4-4	0	21	42	14	266	S.	11	15-2	28-8
2	17	53	49	310		25	45-7	5-1	2	21	46	40	266		10	40-4	29-0
4	17	58	59	310		25	40-6	5-8	4	21	51	6	266		10	17-4	29-2
6	18	4	9	310		25	34-8	6-4	6	21	55	32	264		9	48-2	29-5
8	18	9	19	310		25	28-4	7-2	8	21	59	56	263		9	18-7	29-6
10	18	14	29	309		25	21-2	7-8	10	22	4	19	263		8	49-1	29-8
12	18	19	38	308		25	13-4	8-5	12	22	8	42	262		8	19-3	30-0
14	18	24	46	308		25	4-9	9-1	14	22	13	4	261		7	49-3	30-1
16	18	29	54	308		24	55-8	9-9	16	22	17	25	261		7	19-2	30-3
18	18	35	2	308		24	45-9	10-4	18	22	21	46	260		6	48-9	30-4
20	18	40	8	306		24	35-5	11-2	20	22	26	6	260		6	18-5	30-6
22	18	45	15	305	S.	24	24-3	11-8	22	22	30	26	258	S.	5	47-9	30-6
<b>Wednesday 4.</b>																	
0	18	50	20	305	S.	24	12-5	12-4	0	22	34	44	259	S.	5	17-3	30-8
2	18	55	25	304		24	0-1	13-1	2	22	39	3	259		4	46-5	30-8
4	19	0	20	303		23	47-0	13-6	4	22	43	20	258		4	15-7	30-9
6	19	5	32	302		23	33-4	14-4	6	22	47	38	257		3	44-8	31-0
8	19	10	34	301		23	19-0	14-9	8	22	51	55	256		3	13-8	31-0
10	19	15	35	300		23	4-1	15-5	10	22	56	11	256		2	42-8	31-0
12	19	20	35	300		22	48-6	16-1	12	23	0	27	256		2	11-8	31-1
14	19	25	35	298		22	32-5	16-7	14	23	4	43	255		1	40-7	31-1
16	19	30	33	297		22	15-8	17-3	16	23	8	58	255		1	9-7	31-1
18	19	35	30	296		21	58-5	17-8	18	23	13	13	255		0	38-6	31-1
20	19	40	26	295		21	40-7	18-4	20	23	17	28	254	S.	0	7-5	31-0
22	19	45	21	294		21	22-3	18-9	22	23	21	42	254	N.	0	23-5	31-0
24	19	50	15	294	S.	21	3-4	18-9	24	23	25	57	255	N.	0	54-5	31-0

OCTOBER.

C.M.T.		Right Ascension.		Declination.		C.M.T.		Right Ascension.		Declination.							
<b>Monday 9.</b>																	
h	h	m	s	diff.	°	'	diff.	h	h	m	s	diff.	°	'	diff.		
0	23	25	57	254	N.	0	54-5	30-9	0	2	53	45	271	N.	21	26-9	16-5
2	23	30	11	254		1	25-4	30-9	2	2	58	16	271		21	43-4	16-0
4	23	34	25	254		1	56-3	30-8	4	3	2	47	271		21	59-4	15-6
6	23	38	39	254		2	27-1	30-8	6	3	7	18	272		22	15-0	15-0
8	23	42	53	254		2	57-9	30-6	8	3	11	50	272		22	30-0	14-6
10	23	47	7	254		3	28-0	30-5	10	3	16	23	272		22	44-6	14-0
12	23	51	21	254		3	59-5	30-4	12	3	20	55	272		22	58-6	13-5
14	23	55	35	253		4	29-4	30-3	14	3	25	28	273		23	12-1	12-9
16	23	59	48	253		4	59-7	30-1	16	3	30	2	273		23	25-0	12-5
18	0	4	2	254		5	29-8	30-0	18	3	34	35	274		23	37-5	11-9
20	0	8	17	255		5	59-8	29-8	20	3	39	9	274		23	49-4	11-4
22	0	12	31	254	N.	6	29-6	29-7	22	3	43	43	274	N.	24	0-8	10-9
<b>Tuesday 10.</b>																	
0	0	16	45	255	N.	6	59-3	29-4	0	3	48	18	274	N.	24	11-7	10-3
2	0	21	0	255		7	28-7	29-3	2	3	52	52	275		24	22-0	9-8
4	0	25	15	255		7	58-0	29-1	4	3	57	27	275		24	31-8	9-2
6	0	29	30	255		8	27-1	28-8	6	4	2	2	275		24	41-0	8-7
8	0	33	45	255		8	55-9	28-6	8	4	6	37	275		24	49-7	8-2
10	0	38	1	255		9	24-5	28-4	10	4	11	12	275		24	57-9	7-6
12	0	42	16	255		9	52-9	28-1	12	4	15	47	275		25	5-5	7-1
14	0	46	33	256		10	21-0	27-9	14	4	20	22	275		25	12-6	6-5
16	0	50	49	256		10	48-9	27-7	16	4	24	57	275		25	19-1	6-0
18	0	55	6	257		11	16-5	27-6	18	4	29	32	274		25	25-1	5-4
20	0	59	23	257		11	43-8	27-0	20	4	34	6	275		25	30-5	4-9
22	1	3	41	258	N.	12	10-8	26-8	22	4	38	41	254	N.	25	35-4	4-4
<b>Wednesday 11.</b>																	
0	1	7	59	259	N.	12	37-6	26-4	0	4	43	15	275	N.	25	39-8	3-8
2	1	12	18	259		13	4-0	26-1	2	4	47	50	274		25	43-6	3-3
4	1	16	37	259		13	30-1	25-8	4	4	52	24	273		25	46-9	2-7
6	1	20	56	260		13	55-9	25-4	6	4	56	57	274		25	49-6	2-2
8	1	25	16	261		14	21-3	25-1	8	5	1	31	273		25	51-8	1-6
10	1	29	37	261		14	46-4	24-8	10	5	6	4	273		25	53-4	1-1
12	1	33	58	261		15	11-2	24-4	12	5	10	37	272		25	54-5	0-6
14	1	38	19	262		15	35-6	24-0	14	5	15	9	272		25	55-1	0-1
16	1	42	41	262		15	59-6	23-6	16	5	19	41	271		25	55-2	0-5
18	1	47	4	263		16	23-2	23-3	18	5	24	12	271		25	54-7	1-0
20	1	51	27	263		16	46-5	22-8	20	5	28	43	271		25	53-7	1-5
22	1	55	50	263	N.	17	9-3	22-5	22	5	33	14	270	N.	25	52-2	2-1
<b>Thursday 12.</b> </																	



OCTOBER.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Tuesday 17.</b>					
h	h m s	diff. ° /	h	h m s	diff. ° /
0	6 30 50	261 N. 24 46.5	0	9 43 29	225 N. 10 59.6
2	6 35 11	259	2	9 47 14	225
4	6 39 30	259	4	9 50 59	224
6	6 43 49	258	6	9 54 43	224
8	6 48 7	257	8	9 58 27	224
10	6 52 24	256	10	10 2 11	224
12	6 56 40	256	12	10 5 55	224
14	7 0 56	254	14	10 9 39	223
16	7 5 10	254	16	10 13 22	223
18	7 9 24	252	18	10 17 6	223
20	7 13 36	252	20	10 20 49	223
22	7 17 48	250	22	10 24 32	223
<b>Wednesday 18.</b>					
0	7 21 58	250 N. 22 36.3	0	10 28 15	224 N. 5 56.7
2	7 26 8	249	2	10 31 59	224
4	7 30 17	248	4	10 35 42	224
6	7 34 25	247	6	10 39 26	223
8	7 38 32	246	8	10 43 9	224
10	7 42 38	246	10	10 46 53	224
12	7 46 44	244	12	10 50 37	224
14	7 50 48	244	14	10 54 21	225
16	7 54 52	242	16	10 58 6	224
18	7 58 54	242	18	11 1 50	225
20	8 2 56	241	20	11 5 35	226
22	8 6 57	240	22	11 9 21	226
<b>Thursday 19.</b>					
0	8 10 57	239 N. 19 28.7	0	11 13 7	226 N. 0 34.2
2	8 14 56	238	2	11 16 53	226
4	8 18 54	238	4	11 20 39	227
6	8 22 52	237	6	11 24 26	228
8	8 26 49	236	8	11 28 14	228
10	8 30 45	235	10	11 32 2	229
12	8 34 40	235	12	11 35 51	229
14	8 38 35	234	14	11 39 40	229
16	8 42 29	233	16	11 43 30	230
18	8 46 22	233	18	11 47 21	231
20	8 50 14	232	20	11 51 12	231
22	8 54 6	231	22	11 55 5	233
<b>Friday 20.</b>					
0	8 57 57	231 N. 15 33.3	0	11 58 58	233 S. 4 57.1
2	9 1 48	229	2	12 2 51	233
4	9 5 37	230	4	12 6 46	235
6	9 9 27	229	6	12 10 41	237
8	9 13 16	228	8	12 14 38	237
10	9 17 4	228	10	12 18 35	239
12	9 20 52	227	12	12 22 34	239
14	9 24 39	227	14	12 26 33	240
16	9 28 26	226	16	12 30 33	242
18	9 32 12	226	18	12 34 35	242
20	9 35 58	226	20	12 38 37	244
22	9 39 44	225	22	12 42 41	244
24	9 43 29	225	24	12 46 46	245
<b>Saturday 21.</b>					
0	9 43 29	225 N. 10 59.6	0	10 28 15	224 N. 5 56.7
2	9 47 14	225	2	10 31 59	224
4	9 50 59	224	4	10 35 42	224
6	9 54 43	224	6	10 39 26	223
8	9 58 27	224	8	10 43 9	224
10	10 2 11	224	10	10 46 53	224
12	10 5 55	224	12	10 50 37	224
14	10 9 39	223	14	10 54 21	225
16	10 13 22	223	16	10 58 6	224
18	10 17 6	223	18	11 1 50	225
20	10 20 49	223	20	11 5 35	226
22	10 24 32	223	22	11 9 21	226
<b>Sunday 22.</b>					
0	10 28 15	224 N. 5 56.7	0	11 13 7	226 N. 0 34.2
2	10 31 59	224	2	11 16 53	226
4	10 35 42	224	4	11 20 39	227
6	10 39 26	223	6	11 24 26	228
8	10 43 9	224	8	11 28 14	228
10	10 46 53	224	10	11 32 2	229
12	10 50 37	224	12	11 35 51	229
14	10 54 21	225	14	11 39 40	229
16	10 58 6	224	16	11 43 30	230
18	11 1 50	224	18	11 47 21	231
20	11 5 35	225	20	11 51 12	231
22	11 9 21	226	22	11 55 5	233
<b>Monday 23.</b>					
0	11 13 7	226 N. 0 34.2	0	11 58 58	233 S. 4 57.1
2	11 16 53	226	2	12 2 51	233
4	11 20 39	227	4	12 6 46	235
6	11 24 26	227	6	12 10 41	237
8	11 28 14	228	8	12 14 38	237
10	11 32 2	229	10	12 18 35	239
12	11 35 51	229	12	12 22 34	239
14	11 39 40	229	14	12 26 33	240
16	11 43 30	230	16	12 30 33	242
18	11 47 21	231	18	12 34 35	242
20	11 51 12	231	20	12 38 37	244
22	11 55 5	233	22	12 42 41	244
<b>Tuesday 24.</b>					
0	11 58 58	233 S. 4 57.1	0	12 46 46	245 S. 10 24.1
2	12 2 51	233	2	12 50 41	245
4	12 6 46	235	4	12 54 36	245
6	12 10 41	237	6	12 58 31	245
8	12 14 38	237	8	13 2 26	245
10	12 18 35	239	10	13 6 21	245
12	12 22 34	239	12	13 10 16	245
14	12 26 33	240	14	13 14 11	245
16	12 30 33	242	16	13 18 6	245
18	12 34 35	242	18	13 22 1	245
20	12 38 37	244	20	13 26 56	245
22	12 42 41	244	22	13 30 51	245
24	12 46 46	245	24	13 34 46	245

OCTOBER.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Wednesday 25.</b>					
h	h m s	diff. ° /	h	h m s	diff. ° /
0	12 46 46	246 S. 10 24.1	0	16 30 50	312 S. 25 21.1
2	12 50 52	248	2	16 36 2	312
4	12 55 0	248	4	16 41 15	313
6	12 59 8	250	6	16 46 28	313
8	13 3 18	251	8	16 51 42	314
10	13 7 29	253	10	16 56 57	314
12	13 11 42	254	12	17 2 11	314
14	13 15 56	254	14	17 7 26	315
16	13 20 11	255	16	17 12 42	316
18	13 24 28	257	18	17 17 57	315
20	13 28 46	258	20	17 23 13	316
22	13 33 5	262	22	17 28 28	316
<b>Thursday 26.</b>					
0	13 37 27	262 S. 15 30.2	0	17 33 44	315 S. 25 45.1
2	13 41 49	264	2	17 38 59	315
4	13 46 13	266	4	17 44 14	315
6	13 50 39	267	6	17 49 29	315
8	13 55 6	269	8	17 54 44	315
10	13 59 35	270	10	17 59 58	314
12	14 4 5	272	12	18 5 12	314
14	14 8 37	274	14	18 10 26	314
16	14 13 11	275	16	18 15 38	312
18	14 17 46	277	18	18 20 50	312
20	14 22 22	279	20	18 26 2	312
22	14 27 1	279	22	18 31 12	310
<b>Friday 27.</b>					
0	14 31 40	282 S. 19 56.1	0	18 36 22	309 S. 24 28.0
2	14 36 22	283	2	18 41 31	308
4	14 41 5	285	4	18 46 39	307
6	14 45 50	286	6	18 51 46	306
8	14 50 36	288	8	18 56 52	306
10	14 55 24	289	10	19 1 56	304
12	15 0 13	291	12	19 7 0	303
14	15 5 4	292	14	19 12 3	303
16	15 9 56	292	16	19 17 4	301
18	15 14 50	294	18	19 22 5	301
20	15 19 45	295	20	19 27 4	299
22	15 24 42	297	22	19 32 2	298
<b>Saturday 28.</b>					
0	15 29 40	300 S. 23 19.9	0	18 36 22	309 S. 24 28.0
2	15 34 40	300	2	18 41 31	308
4	15 39 40	302	4	18 46 39	307
6	15 44 42	304	6	18 51 46	306
8	15 49 46	304	8	18 56 52	306
10	15 54 50	306	10	19 1 56	304
12	15 59 56	306	12	19 7 0	303
14	16 5 2	308	14	19 12 3	303
16	16 10 10	309	16	19 17 4	301
18	16 15 19	310	18	19 22 5	301
20	16 20 29	310	20	19 27 4	299
22	16 25 39	311	22	19 32 2	298
24	16 30 50	311	24	19 36 58	296
<b>Sunday 29.</b>					
h	h m s	diff. ° /	h	h m s	diff. ° /
0	16 30 50	312 S. 25 21.1	0	17 33 44	315 S. 25 45.1
2	16 36 2	313	2	17 38 59	315
4	16 41 15	313	4	17 44 14	315
6	16 46 28	314	6	17 49 29	315
8	16 51 42	314	8	17 54 44	315
10	16 56 57	314	10	17 59 58	314
12	17 2 11	314	12	18 5 12	314
14	17 7 26	315	14	18 10 26	314
16	17 12 42	316	16	18 15 38	312
18	17 17 57	315	18	18 20 50	312
20	17 23 13	316	20	18 26 2	312
22	17 28 28	316	22	18 31 12	310
<b>Monday 30.</b>					
0	17 33 44	315 S. 25 45.1	0	18 36 22	309 S. 24 28.0
2	17 38 59	315	2	18 41 31	308
4	17 44 14	315	4	18 46 39	307
6	17 49 29	315	6	18 51 46	306
8	17 54 44	315	8	18 56 52	306
10	17 59 58	314	10</		



NOVEMBER.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Wednesday 1.</b>					
h	h m s	diff.	h	h m s	diff.
0	19 36 58		0	23 11 12	248
2	19 41 53	295	2	23 15 20	249
4	19 46 47	294	4	23 19 29	249
6	19 51 40	293	6	23 23 38	248
8	19 56 31	291	8	23 27 46	248
10	20 1 21	290	10	23 31 54	248
12	20 6 10	289	12	23 36 2	248
14	20 10 57	287	14	23 40 10	248
16	20 15 43	286	16	23 44 18	248
18	20 20 27	284	18	23 48 26	248
20	20 25 10	283	20	23 52 34	249
22	20 29 52	281	22	23 56 43	248
<b>Thursday 2.</b>					
0	20 34 33	279	0	0 0 51	248
2	20 39 12	278	2	0 4 59	249
4	20 43 50	276	4	0 9 8	249
6	20 48 26	276	6	0 13 17	249
8	20 53 2	274	8	0 17 26	249
10	20 57 36	273	10	0 21 35	250
12	21 2 9	271	12	0 25 45	250
14	21 6 40	271	14	0 29 55	250
16	21 11 11	269	16	0 34 5	251
18	21 15 40	268	18	0 38 16	251
20	21 20 8	267	20	0 42 27	251
22	21 24 35	265	22	0 46 38	252
<b>Friday 3.</b>					
0	21 29 0	265	0	0 50 50	253
2	21 33 25	264	2	0 55 3	252
4	21 37 49	263	4	0 59 15	254
6	21 42 12	261	6	1 3 29	254
8	21 46 33	261	8	1 7 43	254
10	21 50 54	260	10	1 11 57	255
12	21 55 14	259	12	1 16 12	256
14	21 59 33	258	14	1 20 28	256
16	22 3 51	257	16	1 24 44	257
18	22 8 8	256	18	1 29 1	257
20	22 12 24	256	20	1 33 18	258
22	22 16 40	255	22	1 37 36	259
<b>Saturday 4.</b>					
0	22 20 55	254	0	1 41 55	259
2	22 25 9	254	2	1 46 14	260
4	22 29 23	253	4	1 50 34	260
6	22 33 36	252	6	1 54 54	262
8	22 37 48	252	8	1 59 16	262
10	22 42 0	251	10	2 3 38	262
12	22 46 12	251	12	2 8 0	263
14	22 50 23	250	14	2 12 23	264
16	22 54 33	250	16	2 16 47	265
18	22 58 43	250	18	2 21 12	265
20	23 2 53	250	20	2 25 37	266
22	23 7 3	249	22	2 30 3	267
24	23 11 12	249	24	2 34 30	267
<b>Sunday 5.</b>					
0	23 11 12	248	0	5 15 1	292
2	23 15 20	249	2	5 44 3	290
4	23 19 29	249	4	6 13 3	288
6	23 23 38	248	6	6 42 1	287
8	23 27 46	248	8	7 10 8	285
10	23 31 54	248	10	7 39 3	284
12	23 36 2	248	12	8 7 7	281
14	23 40 10	248	14	8 35 8	280
16	23 44 18	248	16	9 3 8	277
18	23 48 26	248	18	9 31 5	275
20	23 52 34	249	20	9 59 0	273
22	23 56 43	248	22	10 26 3	271
<b>Monday 6.</b>					
0	0 0 51	248	0	10 53 4	268
2	0 4 59	249	2	11 20 2	265
4	0 9 8	249	4	11 46 7	263
6	0 13 17	249	6	12 13 0	260
8	0 17 26	249	8	12 39 0	257
10	0 21 35	250	10	13 4 7	254
12	0 25 45	250	12	13 30 1	251
14	0 29 55	250	14	13 55 2	248
16	0 34 5	251	16	14 20 0	245
18	0 38 16	251	18	14 44 5	242
20	0 42 27	251	20	15 8 7	238
22	0 46 38	252	22	15 32 5	235
<b>Tuesday 7.</b>					
0	0 50 50	253	0	15 56 0	231
2	0 55 3	252	2	16 19 1	227
4	0 59 15	254	4	16 41 8	224
6	1 3 29	254	6	17 4 2	220
8	1 7 43	254	8	17 26 2	216
10	1 11 57	255	10	17 47 8	212
12	1 16 12	256	12	18 9 0	209
14	1 20 28	256	14	18 29 9	204
16	1 24 44	257	16	18 50 3	199
18	1 29 1	257	18	19 10 2	196
20	1 33 18	258	20	19 29 8	191
22	1 37 36	259	22	19 48 9	187
<b>Wednesday 8.</b>					
0	1 41 55	259	0	20 7 6	
2	1 46 14	260			
4	1 50 34	260			
6	1 54 54	262			
8	1 59 16	262			
10	2 3 38	262			
12	2 8 0	263			
14	2 12 23	264			
16	2 16 47	265			
18	2 21 12	265			
20	2 25 37	266			
22	2 30 3	267			
24	2 34 30	267			

NOVEMBER.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Thursday 9.</b>					
h	h m s	diff.	h	h m s	diff.
0	2 34 30	267	0	6 12 37	266
2	2 38 57	263	2	6 17 3	264
4	2 43 25	268	4	6 21 27	264
6	2 47 53	269	6	6 25 51	263
8	2 52 22	270	8	6 30 14	262
10	2 56 52	270	10	6 34 36	261
12	3 1 22	271	12	6 38 57	260
14	3 5 53	271	14	6 43 17	259
16	3 10 24	271	16	6 47 36	259
18	3 14 56	272	18	6 51 54	258
20	3 19 28	272	20	6 56 11	257
22	3 24 1	273	22	7 0 28	257
<b>Friday 10.</b>					
0	3 28 34	273	0	7 4 43	254
2	3 33 7	274	2	7 8 57	254
4	3 37 41	275	4	7 13 11	252
6	3 42 16	274	6	7 17 23	252
8	3 46 50	275	8	7 21 34	251
10	3 51 25	275	10	7 25 45	249
12	3 56 0	276	12	7 29 54	248
14	4 0 36	276	14	7 34 2	248
16	4 5 11	276	16	7 38 10	246
18	4 9 47	276	18	7 42 16	246
20	4 14 23	276	20	7 46 21	245
22	4 18 59	276	22	7 50 26	245
<b>Saturday 11.</b>					
0	4 23 35	276	0	7 54 29	242
2	4 28 11	276	2	8 2 33	240
4	4 32 47	276	4	8 6 33	240
6	4 37 23	276	6	8 10 33	239
8	4 41 59	276	8	8 14 32	237
10	4 46 35	275	10	8 18 29	237
12	4 51 10	275	12	8 22 26	237
14	4 55 45	275	14	8 26 22	236
16	5 0 21	276	16	8 30 17	235
18	5 4 55	274	18	8 34 12	235
20	5 9 30	275	20	8 38 5	233
22	5 14 4	274	22		233
<b>Sunday 12.</b>					
0	5 18 37	274	0	8 41 58	232
2	5 23 11	272	2	8 45 50	231
4	5 27 43	273	4	8 49 41	230
6	5 32 16	273	6	8 53 31	230
8	5 36 47	271	8	8 57 21	228
10	5 41 18	271	10	9 1 9	228
12	5 45 49	271	12	9 4 58	229
14	5 50 19	270	14	9 8 45	227
16	5 54 48	269	16	9 12 32	227
18	5 59 16	268	18	9 16 19	227
20	6 3 44	268	20	9 20 4	225
22	6 8 11	267	22	9 23 50	226
24	6 12 37	266	24	9 27 34	224
<b>Monday 13.</b>					
0	6 12 37	266	0	16 42 5	203
2	6 17 3	264	2	16 22 2	205
4	6 21 27	264	4	16 1 7	208
6	6 25 51	263	6	15 40 9	210
8	6 30 14	262	8	15 19 9	213
10	6 34 36	261	10	14 58 6	215
12	6 38 57	261	12	14 37 1	218
14	6 43 17	260	14	14 15 3	220
16	6 47 36	259	16	13 53 3	222
18	6 51 54	258	18	13 31 1	225
20	6 56 11	257	20	12 46 0	226
22	7 0 28	255	22	12 23 1	229
<b>Tuesday 14.</b>					
0	7 4 43	254	0	20 54 6	159
2	7 8 57	254	2	20 38 7	162
4	7 13 11	252	4		
6	7 17 23	252	6		
8	7 21 34	251	8		
10	7 25 45	249	10		
12	7 29 54	248	12		
14	7 34 2	248	14		
16	7 38 10	246	16		
18	7 42 16	246	18		
20	7 46 21	245	20		
22	7 50 26	245	22		
<b>Wednesday 15.</b>					
0	7 54 29	242	0	22 5	166
2	8 2 33	240	2	20 5 9	169
4	8 6 33	240	4	19 49 0	173
6	8 10 33	239	6	19 31 7	176
8	8 14 32	239	8	19 14 1	179
10	8 18 29	237	10	18 56 2	182
12					



NOVEMBER.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Friday 17.</b>					
h	h m s	diff.	°	'	diff.
0	9 27 34	224	N. 12	23.1	23.1
2	9 31 18	224	12	0.0	23.3
4	9 35 2	224	11	36.7	23.5
6	9 38 46	222	11	13.2	23.7
8	9 42 28	223	10	49.5	23.9
10	9 46 11	222	10	25.6	24.1
12	9 49 53	222	10	1.5	24.2
14	9 53 35	222	9	37.3	24.4
16	9 57 16	221	9	12.9	24.6
18	10 0 58	222	8	48.3	24.7
20	10 4 39	221	8	23.6	24.9
22	10 8 19	220	N. 7	58.7	24.9
		221			25.1
<b>Saturday 18.</b>					
0	10 12 0	221	N. 7	33.6	25.2
2	10 15 41	220	7	8.4	25.4
4	10 19 21	220	6	43.0	25.4
6	10 23 1	221	6	17.6	25.7
8	10 26 42	220	5	51.9	25.7
10	10 30 22	220	5	26.2	25.9
12	10 34 2	221	5	0.3	26.0
14	10 37 43	220	4	34.3	26.1
16	10 41 23	221	4	8.2	26.2
18	10 45 4	221	3	42.0	26.3
20	10 48 45	220	3	15.7	26.4
22	10 52 25	222	N. 2	49.3	26.5
<b>Sunday 19.</b>					
0	10 56 7	221	N. 2	22.8	26.6
2	10 59 48	222	1	56.2	26.6
4	11 3 30	222	1	29.6	26.8
6	11 7 12	222	1	2.8	26.8
8	11 10 54	223	0	36.0	26.9
10	11 14 37	224	N. 0	9.1	26.9
12	11 18 21	223	S. 0	17.8	27.0
14	11 22 4	223	0	44.8	27.0
16	11 25 49	225	1	11.8	27.0
18	11 29 34	225	1	38.8	27.1
20	11 33 19	225	2	5.9	27.1
22	11 37 5	226	S. 2	33.0	27.2
<b>Monday 20.</b>					
0	11 40 52	228	S. 3	0.2	27.1
2	11 44 40	228	3	27.3	27.2
4	11 48 28	229	3	54.5	27.1
6	11 52 17	230	4	21.6	27.1
8	11 56 7	230	4	48.7	27.2
10	11 59 57	230	5	15.9	27.1
12	12 3 49	232	5	43.0	27.0
14	12 7 41	234	6	10.0	27.1
16	12 11 35	234	6	37.1	26.9
18	12 15 29	236	7	4.0	26.9
20	12 19 25	236	7	30.9	26.9
22	12 23 21	236	7	57.8	26.9
24	12 27 19	238	S. 8	24.6	26.8
<b>Tuesday 21.</b>					
h	h m s	diff.	°	'	diff.
0	12 27 19	239	S. 8	24.6	26.7
2	12 31 18	240	8	51.3	26.6
4	12 35 18	241	9	17.9	26.5
6	12 39 19	242	9	44.4	26.4
8	12 43 21	244	10	10.8	26.2
10	12 47 25	245	10	37.0	26.2
12	12 51 30	247	11	3.2	26.0
14	12 55 37	248	11	29.2	25.8
16	12 59 45	249	11	55.0	25.7
18	13 3 54	251	12	20.7	25.5
20	13 8 5	252	12	46.2	25.4
22	13 12 17	254	S. 13	11.6	25.1
<b>Wednesday 22.</b>					
0	13 16 31	255	S. 13	36.7	24.9
2	13 20 46	257	14	1.6	24.8
4	13 25 3	259	14	26.4	24.4
6	13 29 22	260	14	50.8	24.3
8	13 33 42	262	15	15.1	24.0
10	13 38 4	263	15	39.1	23.7
12	13 42 27	266	16	2.8	23.4
14	13 46 53	267	16	26.2	23.2
16	13 51 20	268	16	49.4	22.8
18	13 55 48	271	17	12.2	22.6
20	14 0 19	272	17	34.8	22.1
22	14 4 51	274	S. 17	56.9	21.9
<b>Thursday 23.</b>					
0	14 9 25	276	S. 18	18.8	21.5
2	14 14 1	278	18	40.3	21.1
4	14 18 39	279	19	1.4	20.7
6	14 23 18	282	19	22.1	20.4
8	14 28 0	283	19	42.5	19.9
10	14 32 43	285	20	2.4	19.4
12	14 37 28	287	20	21.8	19.1
14	14 42 15	288	20	40.9	18.6
16	14 47 3	291	20	59.5	18.1
18	14 51 54	292	21	17.6	17.6
20	14 56 46	294	21	35.2	17.1
22	15 1 40	296	S. 21	52.3	16.6
<b>Friday 24.</b>					
0	15 6 36	298	S. 22	8.9	16.1
2	15 11 34	299	22	25.0	15.6
4	15 16 33	301	22	40.6	14.9
6	15 21 34	303	22	55.5	14.5
8	15 26 37	304	23	10.0	13.8
10	15 31 41	306	23	23.8	13.2
12	15 36 47	307	23	37.0	12.7
14	15 41 54	309	23	49.7	12.0
16	15 47 3	310	24	1.7	11.4
18	15 52 13	312	24	13.1	10.7
20	15 57 25	313	24	23.8	10.1
22	16 2 38	315	24	33.9	9.5
24	16 7 53		S. 24	43.4	

NOVEMBER.

G.M.T.	Right Ascension.	Declination.	G.M.T.	Right Ascension.	Declination.
<b>Saturday 25.</b>					
h	h m s	diff.	°	'	diff.
0	16 7 53	315	S. 24	43.4	8.7
2	16 13 8	317	24	52.1	8.1
4	16 18 25	318	25	0.2	7.4
6	16 23 43	319	25	7.6	6.7
8	16 29 2	320	25	14.3	5.9
10	16 34 22	320	25	20.2	5.3
12	16 39 42	322	25	25.5	4.5
14	16 45 4	322	25	30.0	3.8
16	16 50 26	323	25	33.8	3.1
18	16 55 49	323	25	36.9	2.3
20	17 1 12	324	S. 25	39.2	1.6
22	17 6 36	324	25	40.8	0.9
<b>Sunday 26.</b>					
0	17 12 0	324	S. 25	41.7	0.0
2	17 17 24	325	25	41.7	0.6
4	17 22 49	325	25	41.1	1.4
6	17 28 14	325	25	39.7	2.2
8	17 33 39	325	25	37.5	2.9
10	17 39 4	324	25	34.6	3.6
12	17 44 28	325	25	31.0	4.4
14	17 49 53	324	25	26.6	5.2
16	17 55 17	323	25	21.4	5.9
18	18 0 40	324	25	15.5	6.6
20	18 6 4	322	S. 25	8.9	7.4
22	18 11 26	322	25	1.5	8.1
<b>Monday 27.</b>					
0	18 16 48	322	S. 24	53.4	8.8
2	18 22 10	320	24	44.6	9.5
4	18 27 30	320	24	35.1	10.2
6	18 32 50	318	24	24.9	10.9
8	18 38 8	317	24	14.0	11.6
10	18 43 26	317	24	2.4	12.3
12	18 48 43	316	23	50.1	13.0
14	18 53 59	314	23	37.1	13.6
16	18 59 13	313	23	23.5	14.3
18	19 4 26	312	23	9.2	14.9
20	19 9 38	311	S. 22	54.3	15.5
22	19 14 49	309	22	38.8	16.1
<b>Tuesday 28.</b>					
0	19 19 58	308	S. 22	22.7	16.8
2	19 25 6	307	22	5.9	17.3
4	19 30 13	305	21	48.6	17.9
6	19 35 18	303	21	30.7	18.5
8	19 40 21	302	21	12.2	19.0
10	19 45 23	301	20	53.2	19.6
12	19 50 24	299	20	33.6	20.1
14	19 55 23	297	20	13.5	20.6
16	20 0 20	296	19	52.9	21.0
18	20 5 16	295	19	31.9	21.6
20	20 10 11	292	19	10.3	22.0
22	20 15 3	291	S. 18	48.3	22.5
24	20 19 54		18	25.8	
<b>Wednesday 29.</b>					
h	h m s	diff.	°	'	d. ff.
0	20 19 54	290	S. 18	25.8	22.9
2	20 24 44	288	18	2.9	23.4
4	20 29 32	287	17	39.5	23.7
6	20 34 19	284	17	15.8	24.2
8	20 39 3	284	16	51.6	24.5
10	20 43 47	282	16	27.1	24.9
12	20 48 29	280	16	2.2	25.2
14	20 53 9	279	15	37.0	25.6
16	20 57 48	277	15	11.4	25.9
18	21 2 25	276	14	45.5	26.2
20	21 7 1	274	14	19.3	26.5
22	21 11 35	273	S. 13	52.8	26.8
<b>Thursday 30.</b>					
0	21 16 8	272	S. 13	26.0	27.1
2	21 20 40	270	12	58.9	27.3
4	21 25 10	269	12	31.6	27.6
6	21 29 39	268	12	4.0	27.7
8	21 34 7	266	11	36.3	28.0
10	21 38 33	266	11	8.3	28.3
12	21 42 59	263	10	40.0	28.4
14	21 47 22	263	10	11.6	28.5
16	21 51 45	262	9	43.1	28.8
18	21 56 7	260	9	14.3	28.9
20	22 0 27	260	8	45.4	29.0
22	22 4 47	258	S. 7	16.4	29.2
24	22 9 5		7	47.2	
<b>PHASES OF THE MOON.</b>					
Nov. 2	)	First Quarter	.....	5 51	h m
9	○	Full Moon	.....		



DECEMBER.

Friday 1.					Tuesday 5.						
G.M.T.	Right Ascension.	Declination.		diff.	G.M.T.	Right Ascension.	Declination.		diff.		
h	h m s	°	'		h	h m s	°	'			
0	22 9 5	258	S. 7	47.2	29.3	0	1 28 6	253	N. 14	47.4	23.6
2	22 13 23	257			2	1 32 19	254				23.2
4	22 17 40	255			4	1 36 33	254				23.0
6	22 21 55	255			6	1 40 47	255				22.5
8	22 26 10	254			8	1 45 2	255				22.3
10	22 30 24	253			10	1 49 17	256				21.9
12	22 34 37	252			12	1 53 33	257				21.5
14	22 38 49	252			14	1 57 50	257				21.1
16	22 43 1	251			16	2 2 7	258				20.8
18	22 47 12	250			18	2 6 25	259				20.4
20	22 51 22	250			20	2 10 44	259				20.0
22	22 55 32	249	S. 2	20.9	22	2 15 3	260	N. 18	18	47.7	19.6

Saturday 2.					Wednesday 6.						
G.M.T.	Right Ascension.	Declination.		diff.	G.M.T.	Right Ascension.	Declination.		diff.		
h	h m s	°	'		h	h m s	°	'			
0	22 59 41	249	S. 1	51.0	29.8	0	2 19 23	261	N. 19	7.3	19.1
2	23 3 50	248			2	2 23 44	261				18.8
4	23 7 58	248			4	2 28 5	262				18.3
6	23 12 6	247	S. 0	51.3	29.8	6	2 32 27	263			18.0
8	23 16 13	247			8	2 36 50	263				17.4
10	23 20 20	247	N. 0	8.3	29.7	10	2 41 13	265			17.1
12	23 24 27	246			12	2 45 38	264				16.6
14	23 28 33	246			14	2 50 2	266				16.1
16	23 32 39	246			16	2 54 28	266				15.7
18	23 36 45	246			18	2 58 54	266				15.2
20	23 40 51	246			20	3 3 20	268				14.8
22	23 44 57	245	N. 3	34.8	29.2	22	3 7 48	268	N. 22	14.4	14.3

Sunday 3.					Thursday 7.						
G.M.T.	Right Ascension.	Declination.		diff.	G.M.T.	Right Ascension.	Declination.		diff.		
h	h m s	°	'		h	h m s	°	'			
0	23 49 2	246	N. 4	4.0	29.0	0	3 12 16	268	N. 22	28.7	13.8
2	23 53 8	245			2	3 16 44	269				13.3
4	23 57 13	245			4	3 21 13	269				12.8
6	0 1 18	246			6	3 25 42	270				12.3
8	0 5 24	245			8	3 30 12	271				11.8
10	0 9 29	246			10	3 34 43	271				11.4
12	0 13 35	246			12	3 39 14	271				10.8
14	0 17 41	245			14	3 43 45	272				10.3
16	0 21 46	245			16	3 48 17	272				9.8
18	0 25 53	247			18	3 52 49	273				9.3
20	0 29 59	246			20	3 57 22	273				8.7
22	0 34 5	247	N. 9	14.6	27.1	22	4 1 55	273	N. 24	33.0	8.2

Monday 4.					Friday 8.						
G.M.T.	Right Ascension.	Declination.		diff.	G.M.T.	Right Ascension.	Declination.		diff.		
h	h m s	°	'		h	h m s	°	'			
0	0 38 12	247	N. 9	41.7	26.9	0	4 6 28	273	N. 24	41.2	7.7
2	0 42 19	248			2	4 11 1	274				7.2
4	0 46 27	248			4	4 15 35	274				6.7
6	0 50 35	248			6	4 20 9	274				6.1
8	0 54 43	249			8	4 24 43	274				5.5
10	0 58 52	249			10	4 29 17	274				5.1
12	1 3 1	250			12	4 33 51	274				4.5
14	1 7 11	250			14	4 38 25	274				4.0
16	1 11 21	250			16	4 42 59	274				3.4
18	1 15 31	252			18	4 47 33	274				2.9
20	1 19 43	251			20	4 52 7	274				2.4
22	1 23 54	252			22	4 56 41	273				1.8
24	1 28 6	252	N. 14	47.4	23.9	24	5 1 14	273	N. 25	38.5	

DECEMBER.

Saturday 9.					Wednesday 13.						
G.M.T.	Right Ascension.	Declination.		diff.	G.M.T.	Right Ascension.	Declination.		diff.		
h	h m s	°	'		h	h m s	°	'			
0	5 1 14	274	N. 25	38.5	1.3	0	8 27 7	234	N. 17	46.9	19.3
2	5 5 48	273			2	8 31 1	234				19.5
4	5 10 21	273			4	8 34 55	233				19.9
6	5 14 54	273			6	8 38 48	232				20.1
8	5 19 27	272			8	8 42 40	231				20.3
10	5 23 59	272			10	8 46 31	231				20.6
12	5 28 31	271			12	8 50 22	229				20.9
14	5 33 2	271			14	8 54 11	229				21.0
16	5 37 33	271			16	8 58 0	228				21.4
18	5 42 4	270			18	9 1 48	227				21.5
20	5 46 34	269	N. 25	27.8	20	9 5 35	227				21.8
22	5 51 3	269			22	9 9 22	225	N. 14	0.6		22.0

Sunday 10.					Thursday 14.						
G.M.T.	Right Ascension.	Declination.		diff.	G.M.T.	Right Ascension.	Declination.		diff.		
h	h m s	°	'		h	h m s	°	'			
0	5 55 32	268	N. 25	19.4	4.9	0	9 13 7	225	N. 13	38.6	22.3
2	6 0 0	267			2	9 16 52	225				22.4
4	6 4 27	267			4	9 20 37	224				22.6
6	6 8 54	266			6	9 24 21	223				22.9
8	6 13 20	266			8	9 28 4	223				23.0
10	6 17 46	264			10	9 31 47	222				23.2
12	6 22 10	264			12	9 35 29	221				23.4
14	6 26 34	263			14	9 39 10	221				23.6
16	6 30 57	262			16	9 42 51	221				23.7
18	6 35 19	261			18	9 46 32	220				23.9
20	6 39 40	260	N. 23	58.4	20	9 50 12	220				24.1
22	6 44 0	259			22	9 53 51	220	N. 9	23.5		24.2

Monday 11.					Friday 15.						
G.M.T.	Right Ascension.	Declination.		diff.	G.M.T.	Right Ascension.	Declination.		diff.		
h	h m s	°	'		h	h m s	°	'			
0	6 48 19	259	N. 23	48.3	10.6	0	9 57 31	219	N. 8	59.3	24.4
2	6 52 38	257			2	10 1 10	218				24.5
4	6 56 55	256			4	10 4 48	219				24.7
6	7 1 11	256			6	10 8 27	218				24.8
8	7 5 27	255			8	10 12 5	218				24.9
10	7 9 42	253			10	10 15 43	217				25.0
12	7 13 55	253			12	10 19 20	218				25.2
14	7 18 8	251			14	10 22 58	217				25.3
16	7 22 19	251			16	10 26 35	217				25.4
18	7 26 30	249			18	10 30 12	217				25.5
20	7 30 39	249	N. 21	43.5	20	10 33 49	218				25.6
22	7 34 48	247			22	10 37 27	217	N. 4	24.0		25.7

Tuesday 12.					Saturday 16.						
G.M.T.	Right Ascension.	Declination.		diff.	G.M.T.	Right Ascension.	Declination.		diff.		
h	h m s	°	'		h	h m s	°	'			
0	7 38 55	246	N. 21	13.8	15.4	0	10 41 4	217	N. 3	58.3	25.7
2	7 43 1	246			2	10 44 41	217				25.9
4	7 47 7	244			4	10 48 18	217				25.9
6	7 51 11	244			6	10 51 55	218				26.1
8	7 55 15	243			8	10 55 33	217				26.0
10	7 59 17	242			10	10 59 10	218				26.2
12	8 3 19	240			12	11 2 48	218				26.2
14	8 7 19	239			14	11 6 26	218				26.3
16	8 11 18	239			16	11 10 4	219				26.3
18	8 15 17	237			18	11 13 43	219	N. 0	3.7		26.3
20	8 19 14	237			20	11 17 22	219	S. 0	22.6		26.4
22	8 23 11	236			22	11 21 1	220				26.4
24	8 27 7	236	N. 17	46.9	24	11 24 41	220	S. 1	15.4		



DECEMBER.

G.M.T.					G.M.T.																						
Right Ascension.					Declination.					Right Ascension.					Declination.												
<b>Sunday 17.</b>										<b>Thursday 21.</b>																	
h	h	m	s	diff.	S.	°	'	diff.	h	h	m	s	diff.	S.	°	'	diff.	h	h	m	s	diff.	S.	°	'	diff.	
0	11	24	41	220	S.	1	15.4	26.5	0	14	40	53	284	S.	20	41.2	18.3	0	18	54	15	323	S.	23	33.2	14.2	
2	11	28	21	221		1	41.9	26.4	2	14	45	37	287		20	59.5	17.8	2	18	59	38	322		23	19.0	14.9	
4	11	32	2	221		2	8.3	26.5	4	14	50	24	288		21	17.3	17.4	4	19	5	0	321		23	4.1	15.6	
6	11	35	43	222		2	34.8	26.5	6	14	55	12	291		21	34.7	16.9	6	19	10	21	319		22	48.5	16.2	
8	11	39	25	222		3	1.3	26.5	8	15	0	3	292		21	51.6	16.5	8	19	15	40	319		22	32.3	16.9	
10	11	43	7	222		3	27.8	26.5	10	15	4	55	294		22	8.1	15.9	10	19	20	59	317		22	15.4	17.6	
12	11	46	50	223		3	54.3	26.5	12	15	9	49	297		22	24.0	15.4	12	19	26	16	316		21	57.8	18.2	
14	11	50	34	224		4	20.8	26.5	14	15	14	46	298		22	39.4	14.9	14	19	31	32	316		21	39.6	18.8	
16	11	54	18	224		4	47.3	26.4	16	15	19	44	300		22	54.3	14.4	16	19	36	46	313		21	20.8	19.4	
18	11	58	3	225		5	13.7	26.4	18	15	24	44	302		23	8.7	13.7	18	19	41	59	313		21	1.4	20.0	
20	12	1	49	226		5	40.1	26.4	20	15	29	46	303		23	22.4	13.3	20	19	47	10	311		20	41.4	20.5	
22	12	5	36	228	S.	6	6.5	26.3	22	15	34	49	306		S.	23	35.7	12.6	22	19	52	20	310	S.	20	20.9	21.2
<b>Monday 18.</b>										<b>Friday 22.</b>																	
0	12	9	24	228	S.	6	32.8	26.3	0	15	39	55	307	S.	23	48.3	12.0	0	19	57	29	307	S.	19	59.7	21.6	
2	12	13	12	230		6	59.1	26.3	2	15	45	2	309		24	0.3	11.4	2	20	2	36	305		19	38.1	22.2	
4	12	17	2	230		7	25.4	26.2	4	15	50	11	311		24	11.7	10.8	4	20	7	41	304		19	15.9	22.7	
6	12	20	52	232		7	51.6	26.1	6	15	55	22	312		24	22.5	10.2	6	20	12	45	302		18	53.2	23.2	
8	12	24	44	232		8	17.7	26.0	8	16	0	34	314		24	32.7	9.5	8	20	17	47	301		18	30.0	23.7	
10	12	28	36	234		8	43.7	25.9	10	16	5	48	315		24	42.2	8.8	10	20	22	48	298		18	6.3	24.2	
12	12	32	30	235		9	9.6	25.9	12	16	11	3	317		24	51.0	8.2	12	20	27	46	298		17	42.1	24.6	
14	12	36	25	236		9	35.5	25.7	14	16	16	20	317		24	59.2	7.5	14	20	32	44	295		17	17.5	25.0	
16	12	40	21	237		10	1.2	25.7	16	16	21	39	319		25	6.7	6.8	16	20	37	39	294		16	52.5	25.4	
18	12	44	18	237		10	26.9	25.5	18	16	26	58	319		25	13.5	6.1	18	20	42	33	294		16	27.1	25.8	
20	12	48	17	239		10	52.4	25.4	20	16	32	19	321		25	19.6	5.3	20	20	47	26	293		16	1.3	26.2	
22	12	52	17	241	S.	11	17.8	25.2	22	16	37	41	323	S.	25	24.9	4.7	22	20	52	17	289	S.	15	35.1	26.6	
<b>Tuesday 19.</b>										<b>Saturday 23.</b>																	
0	12	56	18	242	S.	11	43.0	25.1	0	16	43	4	325	S.	25	29.6	3.9	0	20	57	6	288	S.	15	8.5	26.9	
2	13	0	20	244		11	8.1	25.0	2	16	48	29	325		25	33.5	3.2	2	21	1	54	286		14	41.6	27.3	
4	13	4	24	246		12	33.1	24.8	4	16	53	54	326		25	36.7	2.4	4	21	6	40	284		14	14.3	27.5	
6	13	8	30	247		12	57.9	24.6	6	16	59	20	327		25	39.1	1.7	6	21	11	24	283		13	46.8	27.9	
8	13	12	37	248		13	22.5	24.4	8	17	4	47	328		25	40.8	0.9	8	21	16	7	282		13	18.9	28.2	
10	13	16	45	248		13	46.9	24.3	10	17	10	15	328		25	41.7	0.1	10	21	20	49	280		12	50.7	28.4	
12	13	20	55	251		14	11.2	24.0	12	17	15	43	329		25	41.8	0.6	12	21	25	29	278		11	53.7	28.6	
14	13	25	6	254		14	35.2	23.8	14	17	21	12	329		25	41.2	1.4	14	21	30	7	277		11	24.8	28.9	
16	13	29	20	254		14	59.0	23.6	16	17	26	41	329		25	39.8	2.1	16	21	34	44	276		10	55.7	29.1	
18	13	33	34	254		15	22.6	23.4	18	17	32	11	330		25	37.7	3.0	18	21	39	20	274		10	26.3	29.4	
20	13	37	51	258		15	46.0	23.1	20	17	37	41	330		25	34.7	3.7	20	21	43	54	273	S.	9	56.8	29.5	
22	13	42	9	260	S.	16	9.1	22.8	22	17	43	11	330	S.	25	31.0	4.5	22	21	48	27	271		9	56.8	29.7	
<b>Wednesday 20.</b>										<b>Sunday 24.</b>																	
0	13	46	29	262	S.	16	31.9	22.6	0	17	48	41	330	S.	25	26.5	5.2	0	21	52	58	271	S.	9	27.1	29.8	
2	13	50	51	263		16	54.5	22.3	2	17	54	11	330		25	21.3	6.1	2	21	57	29	269		8	57.3	30.0	
4	13	55	14	266		17	16.8	22.0	4	17	59	41	329		25	15.2	6.8	4	22	1	58	268		8	27.3	30.1	
6	13	59	40	267		17	38.8	21.6	6	18	5	10	329		25	8.4	7.6	6	22	6	26	266		7	57.2	30.3	
8	14	4	7	269		18	0.4	21.4	8	18	10	40	329		25	0.8	8.3	8	22	10	52	266		7	26.9	30.3	
10	14	8	36	271		18	21.8	21.0	10	18	16	9	329		24	52.5	9.1	10	22	15	18	264		6	56.6	30.3	
12	14	13	7	273		18	42.8	20.7	12	18	21	38	328		24	43.4	9.9	12	22	19	42	263		6	26.1	30.5	
14	14	17	40	274		19	3.5	20.3	14	18	27	6	327		24	33.5	10.6	14	22	24	5	263		5	55.6	30.6	
16	14	22	14	277		19	23.8	20.0	16	18	32	33	327		24	22.9	11.3	16	22	28	28	261		5	25.0	30.6	
18	14	26	51	279		19	43.8	19.5	18	18	38	0	327		24	11.6	12.1	18	22	32	49	260		4	54.4	30.7	
20	14	31	30	280		20	3.3	19.1	20	18	43	26	326		23	59.5	12.8	20	22	37	9	260		4	23.7	30.7	
22	14	36	10	283		20	22.4	18.8	22	18	48	51	325		23	46.7	13.5	22	22	41	29	258	S.	3	53.0	30.7	
24	14	40	53		S.	20	41.2		24	18	54	15	324	S.	23	33.2		24	22	45	47		S.	3	22.3		

DECEMBER.

G.M.T.					G.M.T.																					
Right Ascension.					Declination.					Right Ascension.					Declination.											
<b>Monday 25.</b>										<b>Friday 29.</b>																
h	h	m	s	diff.	S.	°	'	diff.	h	h	m	s	diff.	S.	°	'	diff.	h	h	m	s	diff.	S.	°	'	diff.
0	18	54	15	323	S.	23	33.2	14.2	0	22	45	47	258	S.	3	22.3	30.8	0	22	45	47	258	S.	3	22.3	30.8
2	18	59	38	322		23	19.0	14.9	2	22	50	5	257		2	51.5	30.7	2	22	50	5	257		2	51.5	30.7
4	19	5	0	321		23	4.1	15.6	4	22	54	22	256		2	20.8	30.7	4	22	54	22	256		2	20.8	30.7
6	19	10	21	319		22	48.5	16.2	6	22	58	38	255		1	50.1	30.6	6	22	58	38	255		1	50.1	30.6
8	19	15	40	319		22	32.3	16.9	8	23	2	53	255		1	19.5	30.7	8	23	2	53	255		1	19.5	30.7
10	19	20	59	317		22	15.4	17.6	10	23	7	8	254		0	48.8	30.5	10	23	7	8	254		0	48.8	30.5
12	19	26	16	316		21	57.8	18.2	12	23	11	22	254	S												



GREENWICH MEAN TIME.

JANUARY						FEBRUARY								
Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.			
	R. A.	Dec.	diff.			R. A.	Dec.	diff.			R. A.	Dec.	diff.	
1	h m s	° /	diff.	h m	1	h m s	° /	diff.	h m	1	h m s	° /	diff.	h m
2	20 39 32	307	18.9	2 0	2	23 7 38	269	30.4	2 26	2	23 12 7	267	30.6	2 27
3	20 44 39	305	19.6	2 2	3	23 16 34	267	30.8	2 27	3	23 16 34	267	30.8	2 27
4	20 54 48	302	20.6	2 4	4	23 21 1	266	30.8	2 28	4	23 21 1	266	30.8	2 28
5	20 59 50	301	21.1	2 5	5	23 25 27	266	31.0	2 28	5	23 25 27	266	31.0	2 28
6	21 4 51	300	21.7	2 6	6	23 29 53	265	31.1	2 29	6	23 29 53	265	31.1	2 29
7	21 9 51	298	22.2	2 7	7	23 34 18	264	31.3	2 29	7	23 34 18	264	31.3	2 29
8	21 14 49	297	22.6	2 8	8	23 38 42	263	31.2	2 30	8	23 38 42	263	31.2	2 30
9	21 19 46	295	23.2	2 9	9	23 43 5	263	31.4	2 30	9	23 43 5	263	31.4	2 30
10	21 24 41	294	23.6	2 10	10	23 47 28	263	31.4	2 31	10	23 47 28	263	31.4	2 31
11	21 29 35	293	24.0	2 11	11	23 51 51	262	31.5	2 31	11	23 51 51	262	31.5	2 31
12	21 34 28	291	24.5	2 12	12	23 56 13	261	31.5	2 31	12	23 56 13	261	31.5	2 31
13	21 39 19	290	24.9	2 13	13	0 0 34	261	31.5	2 32	13	0 0 34	261	31.5	2 32
14	21 44 9	289	25.3	2 14	14	0 4 55	261	31.6	2 32	14	0 4 55	261	31.6	2 32
15	21 48 58	287	25.7	2 15	15	0 9 16	260	31.5	2 33	15	0 9 16	260	31.5	2 33
16	21 53 45	286	26.1	2 15	16	0 13 36	260	31.5	2 33	16	0 13 36	260	31.5	2 33
17	21 58 31	284	26.4	2 16	17	0 17 56	260	31.5	2 33	17	0 17 56	260	31.5	2 33
18	22 3 15	284	26.8	2 17	18	0 22 16	259	31.4	2 34	18	0 22 16	259	31.4	2 34
19	22 7 59	282	27.2	2 18	19	0 26 35	260	31.5	2 34	19	0 26 35	260	31.5	2 34
20	22 12 41	281	27.4	2 19	20	0 30 55	259	31.3	2 35	20	0 30 55	259	31.3	2 35
21	22 17 22	279	27.8	2 19	21	0 35 14	259	31.3	2 35	21	0 35 14	259	31.3	2 35
22	22 22 1	279	28.1	2 20	22	0 39 33	258	31.2	2 35	22	0 39 33	258	31.2	2 35
23	22 26 40	277	28.4	2 21	23	0 43 51	259	31.2	2 36	23	0 43 51	259	31.2	2 36
24	22 31 17	276	28.7	2 21	24	0 48 10	259	31.0	2 36	24	0 48 10	259	31.0	2 36
25	22 35 53	275	28.9	2 22	25	0 52 29	259	30.9	2 36	25	0 52 29	259	30.9	2 36
26	22 40 28	274	29.2	2 23	26	0 56 48	259	30.7	2 37	26	0 56 48	259	30.7	2 37
27	22 45 2	273	29.4	2 23	27	1 1 7	259	30.7	2 37	27	1 1 7	259	30.7	2 37
28	22 49 35	273	29.6	2 24	28	1 5 26	259	30.5	2 38	28	1 5 26	259	30.5	2 38
29	22 54 8	271	29.9	2 25	29	1 9 45	259	30.3	2 38	29	1 9 45	259	30.3	2 38
30	22 58 39	270	30.1	2 26	30	1 14 4	259	30.2	2 38	30	1 14 4	259	30.2	2 38
31	23 3 9	269	30.2	2 26	31					31				
32	23 7 38			2 26	32					32				

GREENWICH MEAN TIME.

MARCH						APRIL								
Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.			
	R. A.	Dec.	diff.			R. A.	Dec.	diff.			R. A.	Dec.	diff.	
1	h m s	° /	diff.	h m	1	h m s	° /	diff.	h m	1	h m s	° /	diff.	h m
2	1 14 4	259	30.1	2 38	2	3 30 39	270	19.2	2 53	2	3 30 39	270	19.2	2 53
3	1 18 23	260	30.0	2 39	3	3 35 9	271	18.8	2 53	3	3 35 9	271	18.8	2 53
4	1 22 43	260	29.8	2 39	4	3 39 40	270	18.3	2 54	4	3 39 40	270	18.3	2 54
5	1 27 3	260	29.5	2 39	5	3 44 10	271	17.7	2 54	5	3 44 10	271	17.7	2 54
6	1 31 23	260	29.3	2 40	6	3 48 41	270	17.2	2 55	6	3 48 41	270	17.2	2 55
7	1 35 43	261	29.1	2 40	7	3 53 11	270	16.7	2 56	7	3 53 11	270	16.7	2 56
8	1 40 4	261	28.9	2 41	8	3 57 41	271	16.1	2 56	8	3 57 41	271	16.1	2 56
9	1 44 25	261	28.6	2 41	9	4 2 12	270	15.6	2 57	9	4 2 12	270	15.6	2 57
10	1 48 46	261	28.3	2 41	10	4 6 42	270	15.1	2 57	10	4 6 42	270	15.1	2 57
11	1 53 7	262	28.1	2 42	11	4 11 12	270	14.5	2 58	11	4 11 12	270	14.5	2 58
12	1 57 29	262	27.7	2 42	12	4 15 42	269	13.9	2 58	12	4 15 42	269	13.9	2 58
13	2 1 51	263	27.5	2 43	13	4 20 11	269	13.3	2 59	13	4 20 11	269	13.3	2 59
14	2 6 14	263	27.1	2 43	14	4 24 40	269	12.8	2 59	14	4 24 40	269	12.8	2 59
15	2 10 37	264	26.9	2 44	15	4 29 9	268	12.2	3 0	15	4 29 9	268	12.2	3 0
16	2 15 1	263	26.5	2 44	16	4 33 37	267	11.7	3 0	16	4 33 37	267	11.7	3 0
17	2 19 24	265	26.1	2 45	17	4 38 4	267	11.0	3 1	17	4 38 4	267	11.0	3 1
18	2 23 49	264	25.8	2 45	18	4 42 31	266	10.5	3 2	18	4 42 31	266	10.5	3 2
19	2 28 13	265	25.4	2 45	19	4 46 57	265	9.9	3 2	19	4 46 57	265	9.9	3 2
20	2 32 38	266	25.0	2 46	20	4 51 22	263	9.3	3 3	20	4 51 22	263	9.3	3 3
21	2 37 4	266	24.7	2 46	21	4 55 45	263	8.7	3 3	21	4 55 45	263	8.7	3 3
22	2 41 30	266	24.3	2 47	22	5 0 8	262	8.2	3 3	22	5 0 8	262	8.2	3 3
23	2 45 56	266	23.8	2 47	23	5 4 30	260	7.6	3 4	23	5 4 30	260	7.6	3 4
24	2 50 22	268	23.5	2 48	24	5 8 50	259	7.0	3 4	24	5 8 50	259	7.0	3 4
25	2 54 50	267	23.0	2 48	25	5 13 9	258	6.4	3 5	25	5 13 9	258	6.4	3 5
26	2 59 17	268	22.5	2 49	26	5 17 27	256	5.8	3 5	26	5 17 27	256	5.8	3 5
27	3 3 45	268	22.2	2 49	27	5 21 43	254	5.3	3 5	27	5 21 43	254	5.3	3 5
28	3 8 13	269	21.7	2 50	28	5 25 57	252	4.7	3 5	28	5 25 57	252	4.7	3 5
29	3 12 42	269	21.2	2 51	29	5 30 9	251	4.1	3 6	29	5 30 9	251	4.1	3 6
30	3 17 11	269	20.7	2 51	30	5 34 20	248	3.6	3 6	30	5 34 20	248	3.6	3 6
31	3 21 40	270	20.3	2 52	31	5 38 28	247	3.0	3 6	31	5 38 28	247	3.0	3 6
32	3 26 10	269	19.8	2 52	32					32				
33	3 30 39			2 53	33					33				



GREENWICH MEAN TIME.

MAY						JUNE										
Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.					
	R. A.	Dec.				R. A.	Dec.				R. A.	Dec.				
1	h m s	diff.	° /	diff.	h m	h m s	diff.	° /	diff.	h m	h m s	diff.	° /	diff.	h m	
2	5 42 35	<sup>244</sup>	N. 26 59.8	<sup>2.5</sup>	3 6	1	7 17 47	<sup>90</sup>	N. 24 48.5	<sup>9.3</sup>	2 39	6 55 0	<sup>162</sup>	N. 19 39.9	<sup>10.0</sup>	0 18
3	5 46 39	<sup>241</sup>	27 2.3	<sup>1.9</sup>	3 6	2	7 19 17	<sup>82</sup>	24 39.2	<sup>9.4</sup>	2 37	6 52 18	<sup>162</sup>	19 29.9	<sup>9.7</sup>	0 12
	5 50 40	<sup>239</sup>	27 4.2	<sup>1.4</sup>	3 7	3	7 20 39	<sup>73</sup>	24 29.8	<sup>9.7</sup>	2 34	6 49 36	<sup>163</sup>	19 20.2	<sup>9.5</sup>	{ <sup>0 5</sup> <sup>23 58</sup> }
4	5 54 39	<sup>237</sup>	N. 27 5.6	<sup>0.9</sup>	3 7	4	7 21 52	<sup>65</sup>	N. 24 20.1	<sup>9.7</sup>	2 31	6 46 53	<sup>161</sup>	N. 19 10.7	<sup>9.3</sup>	23 52
5	5 58 36	<sup>233</sup>	27 6.5	<sup>0.3</sup>	3 7	5	7 22 57	<sup>55</sup>	24 10.4	<sup>9.9</sup>	2 28	6 44 12	<sup>159</sup>	19 1.4	<sup>9.0</sup>	23 45
6	6 2 29	<sup>231</sup>	27 6.8	<sup>0.2</sup>	3 6	6	7 23 52	<sup>46</sup>	24 0.5	<sup>10.0</sup>	2 25	6 41 33	<sup>156</sup>	18 52.4	<sup>8.7</sup>	23 39
7	6 6 20		N. 27 6.6		3 6	7	7 24 38		N. 23 50.5		2 22	6 38 57		N. 18 43.7		23 32
8	6 10 7	<sup>227</sup>	27 5.9	<sup>0.7</sup>	3 6	8	7 25 15	<sup>37</sup>	23 40.4	<sup>10.1</sup>	2 19	6 36 25	<sup>152</sup>	18 35.4	<sup>8.3</sup>	23 26
9	6 13 51	<sup>224</sup>	27 4.8	<sup>1.1</sup>	3 6	9	7 25 42	<sup>27</sup>	23 30.2	<sup>10.2</sup>	2 15	6 33 57	<sup>148</sup>	18 27.4	<sup>7.6</sup>	23 20
		<sup>221</sup>		<sup>1.7</sup>				<sup>17</sup>					<sup>141</sup>			
10	6 17 32		N. 27 3.1		3 6	10	7 25 59		N. 23 20.0		2 12	6 31 36		N. 18 19.8		23 13
11	6 21 8	<sup>216</sup>	27 0.9	<sup>2.2</sup>	3 5	11	7 26 6	<sup>7</sup>	23 9.7	<sup>10.3</sup>	2 8	6 29 20	<sup>136</sup>	18 12.7	<sup>7.1</sup>	23 7
12	6 24 42	<sup>214</sup>	26 58.3	<sup>2.6</sup>	3 5	12	7 26 3	<sup>3</sup>	22 59.3	<sup>10.4</sup>	2 4	6 27 12	<sup>128</sup>	18 6.0	<sup>6.7</sup>	23 1
		<sup>209</sup>		<sup>3.0</sup>				<sup>14</sup>					<sup>120</sup>		<sup>6.2</sup>	
13	6 28 11		N. 26 55.3		3 5	13	7 25 49		N. 22 48.9		2 0	6 25 12		N. 17 59.8		22 56
14	6 31 36	<sup>205</sup>	26 51.8	<sup>3.5</sup>	3 4	14	7 25 25	<sup>24</sup>	22 38.4	<sup>10.5</sup>	1 55	6 23 20	<sup>112</sup>	17 54.0	<sup>5.8</sup>	22 50
15	6 34 56	<sup>200</sup>	26 47.9	<sup>3.9</sup>	3 3	15	7 24 50	<sup>35</sup>	22 27.9	<sup>10.5</sup>	1 51	6 21 37	<sup>103</sup>	17 48.7	<sup>5.3</sup>	22 44
		<sup>196</sup>		<sup>4.4</sup>				<sup>45</sup>					<sup>94</sup>		<sup>4.7</sup>	
16	6 38 12		N. 26 43.5		3 3	16	7 24 5		N. 22 17.4		1 46	6 20 3		N. 17 44.0		22 39
17	6 41 24	<sup>192</sup>	26 38.8	<sup>4.7</sup>	3 2	17	7 23 10	<sup>55</sup>	22 6.8	<sup>10.6</sup>	1 41	6 18 39	<sup>84</sup>	17 39.7	<sup>4.3</sup>	22 34
18	6 44 31	<sup>187</sup>	26 33.6	<sup>5.2</sup>	3 1	18	7 22 4	<sup>66</sup>	21 56.2	<sup>10.6</sup>	1 36	6 17 24	<sup>75</sup>	17 36.0	<sup>3.7</sup>	22 29
		<sup>181</sup>		<sup>5.5</sup>				<sup>76</sup>					<sup>65</sup>		<sup>3.3</sup>	
19	6 47 32		N. 26 28.1		3 0	19	7 20 48		N. 21 45.6		1 31	6 16 19		N. 17 32.7		22 24
20	6 50 29	<sup>177</sup>	26 22.3	<sup>5.8</sup>	2 59	20	7 19 22	<sup>86</sup>	21 35.0	<sup>10.6</sup>	1 26	6 15 25	<sup>54</sup>	17 29.9	<sup>2.8</sup>	22 19
21	6 53 20	<sup>171</sup>	26 16.0	<sup>6.3</sup>	2 58	21	7 17 46	<sup>96</sup>	21 24.4	<sup>10.6</sup>	1 20	6 14 40	<sup>45</sup>	17 27.6	<sup>2.3</sup>	22 15
		<sup>165</sup>		<sup>6.5</sup>				<sup>104</sup>					<sup>34</sup>		<sup>1.8</sup>	
22	6 56 5		N. 26 9.5		2 57	22	7 16 2		N. 21 13.8		1 14	6 14 6		N. 17 25.8		22 11
23	6 58 45	<sup>160</sup>	26 2.5	<sup>7.0</sup>	2 56	23	7 14 8	<sup>114</sup>	21 3.2	<sup>10.6</sup>	1 9	6 13 42	<sup>24</sup>	17 24.4	<sup>1.4</sup>	22 6
24	7 1 19	<sup>154</sup>	25 55.4	<sup>7.1</sup>	2 54	24	7 12 7	<sup>121</sup>	20 52.6	<sup>10.6</sup>	1 3	6 13 27	<sup>15</sup>	17 23.5	<sup>0.9</sup>	22 2
		<sup>147</sup>		<sup>7.5</sup>				<sup>130</sup>					<sup>4</sup>		<sup>0.5</sup>	
25	7 3 46		N. 25 47.9		2 53	25	7 9 57		N. 20 42.0		0 57	6 13 23		N. 17 23.0		21 58
26	7 6 7	<sup>141</sup>	25 40.2	<sup>7.7</sup>	2 51	26	7 7 41	<sup>136</sup>	20 31.4	<sup>10.6</sup>	0 50	6 13 28	<sup>5</sup>	17 22.8	<sup>0.2</sup>	21 55
27	7 8 22	<sup>135</sup>	25 32.1	<sup>8.1</sup>	2 49	27	7 5 18	<sup>143</sup>	20 20.9	<sup>10.5</sup>	0 44	6 13 43	<sup>15</sup>	17 23.1	<sup>0.3</sup>	21 51
		<sup>128</sup>		<sup>8.2</sup>				<sup>149</sup>					<sup>24</sup>		<sup>0.5</sup>	
28	7 10 30		N. 25 23.9		2 48	28	7 2 49		N. 20 10.5		0 38	6 14 7		N. 17 23.6		21 48
29	7 12 30	<sup>120</sup>	25 15.3	<sup>8.6</sup>	2 46	29	7 0 16	<sup>153</sup>	20 0.2	<sup>10.3</sup>	0 31	6 14 40	<sup>33</sup>	17 24.5	<sup>0.9</sup>	21 45
30	7 14 24	<sup>114</sup>	25 6.6	<sup>8.7</sup>	2 44	30	6 57 40	<sup>156</sup>	19 50.0	<sup>10.2</sup>	0 25	6 15 23	<sup>43</sup>	17 25.7	<sup>1.2</sup>	21 41
31	7 16 9	<sup>105</sup>	24 57.7	<sup>8.9</sup>	2 41			<sup>160</sup>				6 16 13	<sup>53</sup>	17 27.1	<sup>1.4</sup>	21 39
		<sup>98</sup>		<sup>9.2</sup>		31	6 55 0		N. 19 39.9		0 18		<sup>60</sup>		<sup>1.7</sup>	
32	7 17 47		N. 24 48.5		2 39									N. 17 28.8		21 36

GREENWICH MEAN TIME.

JULY						AUGUST										
Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.					
	R. A.	Dec.				R. A.	Dec.				R. A.	Dec.				
1	h m s	diff.	° /	diff.	h m	h m s	diff.	° /	diff.	h m	h m s	diff.	° /	diff.	h m	
2	6 55 0	<sup>162</sup>	N. 19 39.9	<sup>10.0</sup>	0 18	1	6 17 13	<sup>67</sup>	N. 17 28.8	<sup>1.9</sup>	21 36	6 18 20	<sup>67</sup>	17 30.7	<sup>2.1</sup>	21 33
3	6 52 18	<sup>162</sup>	19 29.9	<sup>9.7</sup>	0 12	2	6 18 20	<sup>76</sup>	17 32.8	<sup>2.1</sup>	21 30	6 19 36	<sup>76</sup>	17 32.8	<sup>2.2</sup>	21 30
	6 49 36	<sup>163</sup>	19 20.2	<sup>9.5</sup>	{ <sup>0 5</sup> <sup>23 58</sup> }	3	6 19 36	<sup>83</sup>					<sup>83</sup>			
4	6 46 53	<sup>161</sup>	N. 19 10.7	<sup>9.3</sup>	23 52	4	6 20 59	<sup>90</sup>	N. 17 35.0	<sup>2.4</sup>	21 28	6 22 29	<sup>98</sup>	17 37.4	<sup>2.5</sup>	21 26
5	6 44 12	<sup>159</sup>	19 1.4	<sup>9.0</sup>	23 45	5	6 22 29	<sup>98</sup>	17 39.9	<sup>2.5</sup>	21 23	6 24 7	<sup>105</sup>	17 39.9	<sup>2.5</sup>	21 23
6	6 41 33	<sup>156</sup>	18 52.4	<sup>8.7</sup>	23 39	6	6 24 7	<sup>105</sup>					<sup>105</sup>			
7	6 38 57	<sup>152</sup>	N. 18 43.7	<sup>8.3</sup>	23 32	7	6 25 52	<sup>112</sup>	N. 17 42.4	<sup>2.6</sup>	21 21	6 27 44	<sup>118</sup>	17 45.0	<sup>2.6</sup>	21 19
8	6 36 25	<sup>148</sup>	18 35.4	<sup>8.0</sup>	23 26	8	6 27 44	<sup>118</sup>	17 47.6	<sup>2.6</sup>	21 18	6 29 42	<sup>125</sup>	17 47.6	<sup>2.6</sup>	21 18
9	6 33 57	<sup>141</sup>	18 27.4	<sup>7.6</sup>	23 20	9	6 29 42	<sup>125</sup>					<sup>125</sup>			
10	6 31 36		N. 18 19.8		23 13	10	6 31 47		N. 17 50.2		21 16	6 33 58	<sup>131</sup>	17 52.8	<sup>2.6</sup>	21 14
11	6 29 20	<sup>136</sup>	18 12.7	<sup>7.1</sup>	23 7	11	6 33 58	<sup>131</sup>	17 55.3	<sup>2.5</sup>	21 13	6 36 15	<sup>137</sup>	17 55.3	<sup>2.5</sup>	21 13
12	6 27 12	<sup>128</sup>	18 6.0	<sup>6.7</sup>	23 1	12	6 36 15	<sup>142</sup>					<sup>142</sup>			
		<sup>120</sup>		<sup>6.2</sup>									<sup>142</sup>			
13	6 25 12		N. 17 59.8		22 56	13	6 38 37		N. 17 57.8		21 11	6 41 5	<sup>148</sup>	18 0.1	<sup>2.3</sup>	21 10
14	6 23 20	<sup>112</sup>	17 54.0	<sup>5.8</sup>	22 50	14	6 41 5	<sup>154</sup>	18 2.3	<sup>2.1</sup>	21 8	6 43 39	<sup>158</sup>	18 2.3	<sup>2.1</sup>	21 8
15	6 21 37	<sup>103</sup>	17 48.7	<sup>5.3</sup>	22 44	15	6 43 39	<sup>158</sup>					<sup>158</sup>			
		<sup>94</sup>		<sup>4.7</sup>									<sup>158</sup>			
16	6 20 3		N. 17 44.0		22 39	16	6 46 17		N. 18 4.4		21 7	6 49 1	<sup>164</sup>	18 6.3	<sup>1.9</sup>	21 6
17	6 18 39	<sup>84</sup>	17 39.7	<sup>4.3</sup>	22 34	17	6 49 1	<sup>169</sup>	18 8.0	<sup>1.7</sup>	21 5	6 51 50	<sup>173</sup>	18 8.0	<sup>1.5</sup>	21 5
18	6 17 24	<sup>75</sup>	17 36.0	<sup>3.7</sup>	22 29	18	6 51 50	<sup>173</sup>					<sup>173</sup>			
		<sup>65</sup>		<sup>3.3</sup>									<sup>173</sup>			
19	6 16 19		N. 17 32.7		22 24	19	6 54 43		N. 18 9.5		21 4	6 57 40	<sup>177</sup>	18 10.8	<sup>1.3</sup>	21 3
20	6 15 25	<sup>54</sup>	17 29.9	<sup>2.8</sup>	22 19	20	6 57 40	<sup>177</sup>	18 11.9	<sup>1.1</sup>	21 2	7 0 42	<sup>182</sup>	18 11.9	<sup>1.1</sup>	21 2



GREENWICH MEAN TIME.

SEPTEMBER					OCTOBER						
Day.	At Greenwich Mean Noon.		Meridian Passage.	Day.	At Greenwich Mean Noon.		Meridian Passage.				
	R. A.	Dec.			R. A.	Dec.					
1	h m s	diff.	N. 18 3.1	diff.	h m	1	h m s	diff.	N. 13 18.5	diff.	h m
2	7 38 0	221	18 0.2	2.9	20 57	2	9 40 28	259	13 1.9	16.6	21 1
3	7 41 41	224	17 56.8	3.4	20 56	3	9 44 47	259	12 44.9	17.0	21 2
	7 45 25	226		3.8	20 56		9 49 6	260		17.4	21 2
4	7 49 11	229	N. 17 53.0	4.2	20 56	4	9 53 26	259	N. 12 27.5	17.8	21 2
5	7 53 0	230	17 48.8	4.6	20 56	5	9 57 45	260	12 9.7	18.3	21 3
6	7 56 50	233	17 44.2	5.1	20 56	6	10 2 5	260	11 51.4	18.6	21 3
7	8 0 43	234	N. 17 39.1	5.5	20 56	7	10 6 25	261	N. 11 32.8	19.0	21 4
8	8 4 37	237	17 33.6	6.0	20 56	8	10 10 46	260	11 13.8	19.4	21 4
9	8 8 34	238	17 27.6	6.4	20 56	9	10 15 6	261	10 54.4	19.8	21 4
10	8 12 32	240	N. 17 21.2	6.9	20 56	10	10 19 27	261	N. 10 34.6	20.2	21 5
11	8 16 32	241	17 14.3	7.3	20 56	11	10 23 48	261	10 14.4	20.5	21 5
12	8 20 33	243	17 7.0	7.8	20 56	12	10 28 9	261	9 53.9	20.9	21 6
13	8 24 36	245	N. 16 59.2	8.3	20 56	13	10 32 30	262	N. 9 33.0	21.2	21 6
14	8 28 41	246	16 50.9	8.8	20 56	14	10 36 52	261	9 11.8	21.6	21 6
15	8 32 47	247	16 42.1	9.2	20 57	15	10 41 13	262	8 50.2	21.9	21 7
16	8 36 54	248	N. 16 32.9	9.7	20 57	16	10 45 35	261	N. 8 28.3	22.2	21 7
17	8 41 2	249	16 23.2	10.1	20 57	17	10 49 56	262	8 6.1	22.6	21 8
18	8 45 11	251	16 13.1	10.7	20 57	18	10 54 18	262	7 43.5	22.8	21 8
19	8 49 22	252	N. 16 2.4	11.1	20 57	19	10 58 40	262	N. 7 20.7	23.1	21 9
20	8 53 34	252	15 51.3	11.6	20 58	20	11 3 2	262	6 57.6	23.4	21 9
21	8 57 46	253	15 39.7	12.1	20 58	21	11 7 24	262	6 34.2	23.7	21 9
22	9 1 59	254	N. 15 27.6	12.5	20 58	22	11 11 46	262	N. 6 10.5	23.9	21 10
23	9 6 13	255	15 15.1	13.0	20 59	23	11 16 8	263	5 46.6	24.2	21 10
24	9 10 28	256	15 2.1	13.4	20 59	24	11 20 31	262	5 22.4	24.4	21 11
25	9 14 44	256	N. 14 48.7	13.9	21 0	25	11 24 53	263	N. 4 58.0	24.7	21 11
26	9 19 0	256	14 34.8	14.4	21 0	26	11 29 16	263	4 33.3	24.8	21 12
27	9 23 16	258	14 20.4	14.8	21 0	27	11 33 39	262	4 8.5	25.1	21 12
28	9 27 34	257	N. 14 5.6	15.3	21 1	28	11 38 1	263	N. 3 43.4	25.3	21 12
29	9 31 51	259	13 52.3	15.7	21 1	29	11 42 24	264	3 18.1	25.4	21 13
30	9 36 10	258	13 34.6	16.1	21 1	30	11 46 48	263	2 52.7	25.6	21 13
						31	11 51 11	263	2 27.1	25.8	21 14
31	9 40 28		N. 13 18.5		21 1	32	11 55 34		N. 2 1.3		21 14

GREENWICH MEAN TIME.

NOVEMBER					DECEMBER						
Day.	At Greenwich Mean Noon.		Meridian Passage.	Day.	At Greenwich Mean Noon.		Meridian Passage.				
	R. A.	Dec.			R. A.	Dec.					
1	h m s	diff.	N. 2 1.3	diff.	h m	1	h m s	diff.	S. 11 8.8	diff.	h m
2	11 55 34	264	1 35.4	25.9	21 14	2	14 10 55	282	11 33.6	24.8	21 32
3	11 59 58	264	1 9.3	26.1	21 15	3	14 15 37	283	11 58.2	24.6	21 32
	12 4 22	264		26.2	21 15		14 20 20	284		24.3	21 33
4	12 8 46	265	N. 0 43.1	26.3	21 16	4	14 25 4	285	S. 12 22.5	24.1	21 34
5	12 13 11	265	0 16.8	26.4	21 16	5	14 29 49	286	12 46.6	23.8	21 35
6	12 17 36	265	0 9.6	26.5	21 17	6	14 34 35	287	13 10.4	23.5	21 36
7	12 22 1	265	S. 0 36.1	26.6	21 17	7	14 39 22	289	S. 13 33.9	23.2	21 37
8	12 26 26	266	1 2.7	26.7	21 18	8	14 44 11	289	13 57.1	22.9	21 37
9	12 30 52	267	1 29.4	26.7	21 18	9	14 49 0	291	14 20.0	22.6	21 38
10	12 35 19	266	S. 1 56.1	26.8	21 19	10	14 53 51	292	S. 14 42.6	22.2	21 39
11	12 39 45	268	2 22.9	26.8	21 19	11	14 58 43	293	15 4.8	21.8	21 40
12	12 44 13	267	2 49.7	26.8	21 20	12	15 3 36	294	15 26.6	21.5	21 41
13	12 48 40	269	S. 3 16.5	26.9	21 20	13	15 8 30	295	S. 15 48.1	21.2	21 42
14	12 53 9	269	3 43.4	26.8	21 21	14	15 13 25	297	16 9.3	20.7	21 43
15	12 57 38	269	4 10.2	26.8	21 21	15	15 18 22	298	16 30.0	20.3	21 44
16	13 2 7	270	S. 4 37.0	26.8	21 22	16	15 23 20	298	S. 16 50.3	19.9	21 45
17	13 6 37	271	5 3.8	26.8	21 22	17	15 28 18	301	17 10.2	19.5	21 46
18	13 11 8	271	5 30.6	26.7	21 23	18	15 33 19	301	17 29.7	19.0	21 47
19	13 15 39	272	S. 5 57.3	26.6	21 24	19	15 38 20	303	S. 17 48.7	18.5	21 48
20	13 20 11	272	6 23.9	26.6	21 24	20	15 43 23	303	18 7.2	18.1	21 50
21	13 24 43	274	6 50.5	26.6	21 25	21	15 48 26	305	18 25.3	17.6	21 51
22	13 29 17	274	S. 7 16.9	26.4	21 25	22	15 53 31	306	S. 18 42.9	17.1	21 52
23	13 33 51	275	7 43.3	26.2	21 26	23	15 58 37	307	19 0.0	16.6	21 53
24	13 38 26	276	8 9.5	26.1	21 27	24	16 3 44	309	19 16.6	16.1	21 54
25	13 43 2	276	S. 8 35.6	26.0	21 27	25	16 8 53	309	S. 19 32.7	15.5	21 55
26	13 47 38	278	9 1.6	25.8	21 28	26	16 14 2	311	19 48.2	14.4	21 57
27	13 52 16	278	9 27.4	25.6	21 29	27	16 19 13	311	20 3.2	13.9	21 58
28	13 56 54	279	S. 9 53.0	25.5	21 29	28	16 24 24	313	S. 20 17.6	13.3	22 0
29	14 1 33	280	10 18.5	25.2	21 30	29	16 29 37	314	20 31.5	12.7	22 2
30	14 6 13	282	10 43.7	25.1	21 31	30	16 34 51	314	20 44.8	12.2	22 3
						31	16 40 5	316	20 57.5		
31	14 10 55		S. 11 8.8		21 32	32	16 45 21		S. 21 9.7		22 4



GREENWICH MEAN TIME.

JANUARY										FEBRUARY										
Day.	At Greenwich Mean Noon.					Meridian Passage.	Day.	At Greenwich Mean Noon.					Meridian Passage.							
	R. A.		Dec.					R. A.		Dec.										
	h	m	s	diff.	°	'	diff.	h	m	s	diff.	°	'	diff.	h	m				
1	10	12	48		N. 14	50.3	2.5	15	31		1	9	49	12	88	N. 17	57.7	8.3	13	5
2	10	12	48	3	14	52.8	2.7	15	27		2	9	47	44	90	18	6.0	8.3	12	59
3	10	12	45	5	14	55.5	3.1	15	23		3	9	46	14	91	18	14.3	8.3	12	54
4	10	12	40	10	N. 14	58.6	3.3	15	19		4	9	44	43	93	N. 18	22.6	8.2	12	49
5	10	12	30	12	15	1.9	3.6	15	15		5	9	43	10	93	18	30.8	8.2	12	43
6	10	12	18	15	15	5.5	3.8	15	11		6	9	41	37	94	18	39.0	8.1	12	38
7	10	12	3	18	N. 15	9.3	4.2	15	6		7	9	40	3	96	N. 18	47.1	7.9	12	32
8	10	11	45	22	15	13.5	4.4	15	2		8	9	38	27	95	18	55.0	7.9	12	27
9	10	11	23	25	15	17.9	4.7	14	58		9	9	36	52	96	19	2.9	7.7	12	21
10	10	10	58	28	N. 15	22.6	4.9	14	54		10	9	35	16	96	N. 19	10.6		12	16
11	10	10	30	31	15	27.5	5.2	14	49		11	9	33	40	96	19	18.1	7.5	12	10
12	10	9	59	35	15	32.7	5.5	14	45		12	9	32	4	96	19	25.5	7.4	12	4
13	10	9	24	37	N. 15	38.2	5.7	14	40		13	9	30	28	95	N. 19	32.7	6.9	11	59
14	10	8	47	41	15	43.9	5.9	14	36		14	9	28	53	95	19	39.6	6.8	11	53
15	10	8	6	44	15	49.8	6.2	14	31		15	9	27	18	94	19	46.4	6.6	11	48
16	10	7	22	47	N. 15	56.0	6.4	14	26		16	9	25	44	93	N. 19	53.0	6.3	11	42
17	10	6	35	50	16	2.4	6.6	14	21		17	9	24	11	93	19	59.3	6.3	11	37
18	10	5	45	53	16	9.0	6.8	14	17		18	9	22	39	92	20	5.4	6.1	11	32
19	10	4	52	56	N. 16	15.8	7.0	14	12		19	9	21	9	90	N. 20	11.2		11	26
20	10	3	56	59	16	22.8	7.2	14	7		20	9	19	39	87	20	16.8	5.6	11	21
21	10	2	57	62	16	30.0	7.4	14	2		21	9	18	12	86	20	22.2	5.4	11	15
22	10	1	55	65	N. 16	37.4	7.5	13	57		22	9	16	46	84	N. 20	27.2	4.8	11	10
23	10	0	50	68	16	44.9	7.7	13	52		23	9	15	22	82	20	32.0	4.6	11	5
24	9	59	42	70	16	52.6	7.8	13	47		24	9	14	0	79	20	36.6	4.2	10	59
25	9	58	32	73	N. 17	0.4	7.9	13	42		25	9	12	41	78	N. 20	40.8		10	54
26	9	57	19	76	17	8.3	8.1	13	37		26	9	11	23	75	20	44.8	4.0	10	49
27	9	56	3	77	17	16.4	8.1	13	31		27	9	10	8	72	20	48.5	3.7	10	44
28	9	54	46	81	N. 17	24.5	8.2	13	26		28	9	8	56	67	N. 20	51.9		10	39
29	9	53	25	82	17	32.7	8.3	13	21		29	9	7	46	67	20	55.0	3.1	10	34
30	9	52	3	85	17	41.0	8.3	13	16		30	9	6	39	67			2.8		
31	9	50	38	86	17	49.3	8.4	13	10		31	9	6	39		N. 20	57.8		10	29
32	9	49	12		N. 17	57.7		13	5		32									

GREENWICH MEAN TIME.

MARCH										APRIL										
Day.	At Greenwich Mean Noon.					Meridian Passage.	Day.	At Greenwich Mean Noon.					Meridian Passage.							
	R. A.		Dec.					R. A.		Dec.										
	h	m	s	diff.	°	'	diff.	h	m	s	diff.	°	'	diff.	h	m				
1	9	6	39	64	N. 20	57.8	2.6	10	29		1	8	57	27	29	N. 20	24.3	4.2	8	18
2	9	5	35	62	21	0.4	2.3	10	24		2	8	57	56	31	20	20.1	4.5	8	15
3	9	4	33	58	21	2.7	2.0	10	19		3	8	58	27	34	20	15.6	4.6	8	11
4	9	3	35	55	N. 21	4.7	1.7	10	14		4	8	59	1	36	N. 20	11.0		8	8
5	9	2	40	53	21	6.4	1.5	10	9		5	8	59	37	39	20	6.3	4.7	8	5
6	9	1	47	49	21	7.9	1.1	10	4		6	9	0	16	41	20	1.4	4.9	8	1
7	9	0	58	46	N. 21	9.0	1.0	10	0		7	9	0	57	43	N. 19	56.4	5.2	7	58
8	9	0	12	42	21	10.0	0.6	9	55		8	9	1	40	45	19	51.2	5.4	7	55
9	8	59	30	40	21	10.6	0.4	9	50		9	9	2	25	48	19	45.8	5.5	7	52
10	8	58	50	36	N. 21	11.0	0.2	9	46		10	9	3	13	49	N. 19	40.3	5.6	7	49
11	8	58	14	33	21	11.2	0.2	9	41		11	9	4	2	52	19	34.7	5.8	7	46
12	8	57	41	30	21	11.0	0.3	9	37		12	9	4	54	54	19	28.9	5.9	7	43
13	8	57	11	26	N. 21	10.7	0.6	9	32		13	9	5	48	58	N. 19	23.0	6.0	7	40
14	8	56	45	24	21	10.1	0.8	9	28		14	9	6	43	55	19	17.0	6.2	7	37
15	8	56	21	20	21	9.3	1.0	9	24		15	9	7	41	59	19	10.8	6.4	7	34
16	8	56	1	17	N. 21	8.3	1.3	9	19		16	9	8	40	61	N. 19	4.4	6.4	7	31
17	8	55	44	14	21	7.0	1.5	9	15		17	9	9	41	63	18	58.0	6.6	7	28
18	8	55	30	10	21	5.5	1.7	9	11		18	9	10	44	65	18	51.4	6.7	7	25
19	8	55	20	8	N. 21	3.8	1.9	9	7		19	9	11	49	66	N. 18	44.7	6.8	7	22
20	8	55	12	5	21	1.9	2.1	9	3		20	9	12	55	68	18	37.9	7.0	7	19
21	8	55	7	1	20	59.8	2.3	8	59		21	9	14	3	69	18	30.9	7.1	7	16
22	8	55	6	1	N. 20	57.5	2.5	8	55		22	9	15	12	71	N. 18	23.8	7.2	7	14
23	8	55	7	4	20	55.0	2.7	8	51		23	9	16	23	72	18	16.6	7.3	7	11
24	8	55	11	8	20	52.3	2.9	8	47		24	9	17	35	74	18	9.3	7.5	7	8
25	8	55	19	10	N. 20	49.4	3.0	8	44		25	9	18	49	76	N. 18	1.8	7.6	7	5
26	8	55	29	13	20	46.4	3.3	8	40		26	9	20	5	79	17	54.2	7.7	7	3
27	8	55	42	15	20	43.1	3.4	8	36		27	9	21	21	82	17	46.5	7.8	7	0
28	8	55	57	19	N. 20	39.7	3.6	8	32		28	9	22	40	81	N. 17	38.7	8.0	6	57
29	8	56	16	21	20	36.1	3.7	8	29		29	9	23	59	82	17	30.7	8.1	6	55
30	8	56	37	23	20	32.4	4.0	8	25		30	9	25	20	82	17	22.6	8.2	6	52
31	8	57	0	27	20	28.4	4.1	8	22		31					N. 17	14.4		6	50
32	8	57	27		N. 20	24.3		8	18		32	9	26	42						



GREENWICH MEAN TIME.

MAY					JUNE								
Day.	At Greenwich Mean Noon.				Meridian Passage.	Day.	At Greenwich Mean Noon.				Meridian Passage.		
	R. A.		Dec.				R. A.		Dec.				
	h	m	s	diff.	°	'	diff.	h	m	s	diff.	h	m
1	9	26	42	83	N.	17	14.4	8.3	6	50		5	38
2	9	28	5	85		17	6.1	8.4	6	47		5	36
3	9	29	30	85		16	57.7	8.6	6	45		5	34
4	9	30	55	87	N.	16	49.1	8.7	6	42		5	32
5	9	32	22	88		16	40.4	8.8	6	40		5	30
6	9	33	50	89		16	31.6	8.9	6	37		5	28
7	9	35	19	90	N.	16	22.7	9.0	6	35		5	26
8	9	36	49	91		16	13.7	9.1	6	32		5	23
9	9	38	20	93		16	4.6	9.3	6	30		5	21
10	9	39	53	93	N.	15	55.3	9.3	6	27		5	19
11	9	41	26	94		15	46.0	9.5	6	25		5	17
12	9	43	0	95		15	36.5	9.6	6	23		5	15
13	9	44	35	96	N.	15	26.9	9.7	6	20		5	13
14	9	46	11	96		15	17.2	9.8	6	18		5	11
15	9	47	47	98		15	7.4	9.9	6	16		5	9
16	9	49	25	98	N.	14	57.5	10.0	6	13		5	7
17	9	51	3	99		14	47.5	10.1	6	11		5	5
18	9	52	42	100		14	37.4	10.2	6	9		5	3
19	9	54	22	101	N.	14	27.2	10.3	6	7		5	1
20	9	56	3	101		14	16.9	10.5	6	4		4	59
21	9	57	44	102		14	6.4	10.5	6	2		4	57
22	9	59	26	103	N.	13	55.9	10.6	6	0		4	55
23	10	1	9	104		13	45.3	10.8	5	58		4	53
24	10	2	53	104		13	34.5	10.8	5	55		4	51
25	10	4	37	105	N.	13	23.7	10.9	5	53		4	49
26	10	6	22	106		13	12.8	11.1	5	51		4	48
27	10	8	8	106		13	1.7	11.1	5	49		4	46
28	10	9	54	107	N.	12	50.6	11.2	5	47		4	44
29	10	11	41	107		12	39.4	11.4	5	44		4	42
30	10	13	28	108		12	28.0	11.4	5	42		4	40
31	10	15	16	109		12	16.6	11.5	5	40			
32	10	17	5		N.	12	5.1		5	38			

GREENWICH MEAN TIME.

JULY					AUGUST								
Day.	At Greenwich Mean Noon.				Meridian Passage.	Day.	At Greenwich Mean Noon.				Meridian Passage.		
	R. A.		Dec.				R. A.		Dec.				
	h	m	s	diff.	°	'	diff.	h	m	s	diff.	h	m
1	11	15	5	122	N.	5	39.5	14.0	4	38		12	21
2	11	17	7	123		5	25.5	14.0	4	36		12	23
3	11	19	10	123		5	11.5	14.2	4	34		12	25
4	11	21	13	123	N.	4	57.3	14.2	4	32		12	27
5	11	23	16	124		4	43.1	14.2	4	30		12	29
6	11	25	20	124		4	28.9	14.3	4	28		12	32
7	11	27	24	124	N.	4	14.6	14.4	4	27		12	34
8	11	29	28	125		4	0.2	14.4	4	25		12	36
9	11	31	33	125		3	45.8	14.5	4	23		12	39
10	11	33	38	126	N.	3	31.3	14.5	4	21		12	41
11	11	35	44	126		3	16.8	14.6	4	19		12	43
12	11	37	49	127		3	2.2	14.6	4	17		12	45
13	11	39	56	126	N.	2	47.6	14.6	4	16		12	48
14	11	42	2	127		2	33.0	14.8	4	14		12	50
15	11	44	9	127		2	18.2	14.7	4	12		12	52
16	11	46	16	128	N.	2	3.5	14.8	4	10		12	55
17	11	48	24	127		1	48.7	14.8	4	8		12	57
18	11	50	31	129		1	33.9	14.9	4	6		12	59
19	11	52	40	128	N.	1	19.0	14.9	4	5		13	2
20	11	54	48	129		1	4.1	15.0	4	3		13	4
21	11	56	57	129		0	49.1	15.0	4	1		13	6
22	11	59	6	130	N.	0	34.1	15.0	3	59		13	9
23	12	1	16	130		0	19.1	15.1	3	57		13	11
24	12	3	26	131		0	4.0	15.1	3	56		13	13
25	12	5	37	130	S.	0	11.1	15.1	3	54		13	16
26	12	7	47	132		0	26.2	15.1	3	52		13	18
27	12	9	59	131		0	41.4	15.2	3	50		13	21
28	12	12	10	132	S.	0	56.6	15.2	3	49		13	23
29	12	14	22	132		1	11.8	15.2	3	47		13	25
30	12	16	34	133		1	27.0	15.3	3	45		13	28
31	12	18	47	133		1	42.3	15.3	3	43		13	30
32	12	21	0		S.	1	57.6		3	42		13	33



GREENWICH MEAN TIME.

SEPTEMBER					OCTOBER						
Day.	At Greenwich Mean Noon.		Meridian Passage.	Day.	At Greenwich Mean Noon.		Meridian Passage.	Day.	At Greenwich Mean Noon.		
	R. A.	Dec.			R. A.	Dec.			R. A.	Dec.	
1	h m s	diff.	S. 9 52.3	diff.	2 52	1	h m s	diff.	S. 16 54.4	diff.	2 12
2	13 33 19	148	10 7.3	15.0	2 50	2	14 51 23	166	17 7.0	12.6	2 11
3	13 35 47	148	10 22.3	15.0	2 49	3	14 54 9	167	17 19.6	12.6	2 9
4	13 38 15	149		14.9		4	14 56 56	167		12.4	
5			S. 10 37.2	14.9	2 48	5	14 59 43	168	S. 17 32.0	12.3	2 8
6	13 40 44	149	10 52.1	14.8	2 46	6	15 2 31	168	17 44.3	12.2	2 7
7	13 43 13	150	11 6.9	14.8	2 45	7	15 5 19	170	17 56.5	12.0	2 6
8	13 45 43	151				8					
9	13 48 14	151	S. 11 21.7	14.7	2 43	9	15 8 9	170	S. 18 8.5	11.9	2 5
10	13 50 45	151	11 36.4	14.7	2 42	10	15 10 59	170	18 20.4	11.7	2 4
11	13 53 16	152	11 51.1	14.6	2 40	11	15 13 49	171	18 32.1	11.7	2 3
12						12					
13	13 55 48	153	S. 12 5.7	14.5	2 39	13	15 16 40	172	S. 18 43.8	11.4	2 2
14	13 58 21	153	12 20.2	14.5	2 38	14	15 19 32	173	18 55.2	11.4	2 1
15	14 0 54	154	12 34.7	14.4	2 36	15	15 22 25	173	19 6.6	11.1	1 59
16						16					
17	14 3 28	154	S. 12 49.1	14.4	2 35	17	15 25 18	174	S. 19 17.7	11.1	1 58
18	14 6 2	155	13 3.5	14.2	2 33	18	15 28 12	175	19 28.8	10.8	1 57
19	14 8 37	155	13 17.7	14.2	2 32	19	15 31 7	175	19 39.6	10.8	1 56
20						20					
21	14 11 13	156	S. 13 31.9	14.2	2 31	21	15 34 2	176	S. 19 50.4	10.5	1 55
22	14 13 49	157	13 46.1	14.0	2 29	22	15 36 58	177	20 0.9	10.4	1 54
23	14 16 26	157	14 0.1	14.0	2 28	23	15 39 55	177	20 11.3	10.2	1 53
24						24					
25	14 19 3	159	S. 14 14.1	13.9	2 27	25	15 42 52	178	S. 20 21.5	10.1	1 52
26	14 21 42	158	14 28.0	13.7	2 25	26	15 45 50	178	20 31.6	9.9	1 51
27	14 24 20	160	14 41.7	13.8	2 24	27	15 48 49	179	20 41.5	9.7	1 50
28						28					
29	14 27 0	160	S. 14 55.5	13.6	2 23	29	15 51 48	181	S. 20 51.2	9.5	1 49
30	14 29 40	160	15 9.1	13.5	2 22	30	15 54 49	180	21 0.7	9.3	1 48
31	14 32 20	162	15 22.6	13.4	2 20	31	15 57 49	182	21 10.0	9.2	1 48
32						32					
33	14 35 2	162	S. 15 36.0	13.3	2 19	33	16 0 51	182	S. 21 19.2	9.0	1 47
34	14 37 44	162	15 49.3	13.3	2 18	34	16 3 53	183	21 28.2	8.7	1 46
35	14 40 26	163	16 2.6	13.1	2 17	35	16 6 56	183	21 36.9	8.6	1 45
36						36					
37	14 43 9	164	S. 16 15.7	13.0	2 15	37	16 9 59	184	S. 21 45.5	8.4	1 44
38	14 45 53	165	16 28.7	12.9	2 14	38	16 13 3	185	21 53.9	8.2	1 43
39	14 48 38	165	16 41.6	12.8	2 13	39	16 16 8	185	22 2.1	8.0	1 42
40						40	16 19 53	185	22 10.1	7.8	1 41
41						41		186			
42	14 51 23		S. 16 54.4		2 12	42	16 22 19		S. 22 17.9		1 41

GREENWICH MEAN TIME.

NOVEMBER					DECEMBER						
Day.	At Greenwich Mean Noon.		Meridian Passage.	Day.	At Greenwich Mean Noon.		Meridian Passage.	Day.	At Greenwich Mean Noon.		
	R. A.	Dec.			R. A.	Dec.			R. A.	Dec.	
1	h m s	diff.	S. 22 17.9	diff.	1 41	1	h m s	diff.	S. 24 23.5	diff.	1 19
2	16 22 19	186	22 25.4	7.5	1 40	2	17 59 17	200	24 23.7	0.2	1 19
3	16 25 25	187	22 32.8	7.4	1 39	3	18 2 37	200	24 23.7	0.0	1 19
4	16 28 32	188		7.1		4	18 5 57	201	24 23.7	0.3	1 18
5			S. 22 39.9	7.0	1 38	5	18 9 18	200	S. 24 23.4	0.5	1 17
6	16 31 40	188	22 46.9	6.7	1 37	6	18 12 38	201	24 22.9	0.9	1 17
7	16 34 48	189	22 53.6	6.5	1 36	7	18 15 59	201	24 22.0	1.1	1 16
8	16 37 57	190				8					
9	16 41 7	190	S. 23 0.1	6.2	1 36	9	18 19 20	201	S. 24 20.9	1.3	1 16
10	16 44 17	190	23 6.3	6.1	1 35	10	18 22 41	201	24 19.6	1.7	1 15
11	16 47 27	191	23 12.4	5.8	1 34	11	18 26 2	201	24 17.9	1.9	1 14
12						12					
13	16 50 38	192	S. 23 18.2	5.6	1 33	13	18 29 23	202	S. 24 16.0	2.2	1 14
14	16 53 50	192	23 23.8	5.3	1 33	14	18 32 45	201	24 13.8	2.5	1 13
15	16 57 2	193	23 29.1	5.1	1 32	15	18 36 6	202	24 11.3	2.7	1 13
16						16					
17	17 0 15	193	S. 23 34.2	4.9	1 31	17	18 39 28	201	S. 24 8.6	3.0	1 12
18	17 3 28	194	23 39.1	4.6	1 30	18	18 42 49	202	24 5.6	3.3	1 12
19	17 6 42	194	23 43.7	4.4	1 30	19	18 46 11	202	24 2.3	3.6	1 11
20						20					
21	17 9 56	194	S. 23 48.1	4.2	1 29	21	18 49 33	201	S. 23 58.7	3.8	1 10
22	17 13 10	195	23 52.3	3.9	1 28	22	18 52 54	202	23 54.9	4.1	1 10
23	17 16 25	196	23 56.2	3.6	1 28	23	18 56 16	201	23 50.8	4.4	1 9
24						24					
25	17 19 41	196	S. 23 59.8	3.4	1 27	25	18 59 37	202	S. 23 46.4	4.7	1 9
26	17 22 57	196	24 3.2	3.1	1 26	26	19 2 59	201	23 41.7	4.9	1 8
27	17 26 13	197	24 6.3	2.9	1 26	27	19 6 20	202	23 36.8	5.2	1 7
28						28					
29	17 29 30	197	S. 24 9.2	2.7	1 25	29	19 9 42	201	S. 23 31.6	5.5	1 7
30	17 32 47	198	24 11.9	2.3	1 24	30	19 13 3	201	23 26.1	5.7	1 6
31	17 36 5	198	24 14.2	2.1	1 24	31	19 16 24	201	23 20.4	6.0	1 6
32						32					
33	17 39 23	198	S. 24 16.3	1.9	1 23	33	19 19 45	201	S. 23 14.4	6.3	1 5
34	17 42 41	199	24 18.2	1.6	1 22	34	19 23 6	201	23 8.1	6.5	1 5
35	17 46 0	199	24 19.8	1.3	1 22	35	19 26 27	201	23 1.6	6.8	1 4
36						36					
37	17 49 19	199	S. 24 21.1	1.1	1 21	37	19 29 48	200	S. 22 54.8	7.1	1 3
38	17 52 38	199	24 22.2	0.7	1 21	38	19 33 8	200	22 47.7	7.3	1 3
39	17 55 57	200	24 22.9	0.6	1 20	39	19 36 28	200	22 40.4	7.6	1 2
40						40	19 39 48	200	22 32.8	7.8	1 2
41						41					
42	17 59 17		S. 24 23.5		1 19	42	19 43 8		S. 22 25.0		1 1



GREENWICH MEAN TIME.

JANUARY						FEBRUARY															
Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.										
	R. A.		Dec.			R. A.		Dec.			R. A.		Dec.								
	h	m	s	diff.	°	'	diff.	h	m		h	m	s	diff.	°	'	diff.	h	m		
1	23	33	36	31	S.	4	12.9	3.7	4	54	1	23	53	32	44	S.	1	57.9	4.9	3	12
2	23	34	7	33		4	9.2	3.7	4	50	2	23	54	16	45		1	53.0	5.1	3	8
3	23	34	40	33		4	5.5	3.7	4	47	3	23	55	1	45		1	47.9	5.0	3	5
4	23	35	13	33	S.	4	1.8	3.8	4	43	4	23	55	46	46	S.	1	42.9	5.1	3	2
5	23	35	46	34		3	58.0	3.9	4	40	5	23	56	32	46		1	37.8	5.1	2	59
6	23	36	20	34		3	54.1	3.9	4	37	6	23	57	18	46		1	32.7	5.1	2	56
7	23	36	54	35	S.	3	50.2	4.0	4	33	7	23	58	4	46	S.	1	27.6	5.2	2	53
8	23	37	29	36		3	46.2	4.0	4	30	8	23	58	50	47		1	22.4	5.2	2	49
9	23	38	5	35		3	42.2	4.0	4	27	9	23	59	37	47		1	17.2	5.2	2	46
10	23	38	40	37	S.	3	38.2	4.1	4	23	10	0	0	24	47	S.	1	12.0	5.2	2	43
11	23	39	17	36		3	34.1	4.2	4	20	11	0	1	11	47		1	6.8	5.2	2	40
12	23	39	53	38		3	29.9	4.2	4	17	12	0	1	58	48		1	1.5	5.3	2	37
13	23	40	31	37	S.	3	25.7	4.3	4	13	13	0	2	46	48	S.	0	56.2	5.3	2	34
14	23	41	8	38		3	21.4	4.3	4	10	14	0	3	34	48		0	50.9	5.3	2	31
15	23	41	46	39		3	17.2	4.4	4	7	15	0	4	22	48		0	45.6	5.4	2	27
16	23	42	25	39	S.	3	12.8	4.4	4	3	16	0	5	10	49	S.	0	40.2	5.3	2	24
17	23	43	4	39		3	8.4	4.4	4	0	17	0	5	59	48		0	34.9	5.4	2	21
18	23	43	43	39		3	4.0	4.5	4	3	18	0	6	47	49		0	29.5	5.5	2	18
19	23	44	22	41	S.	2	59.5	4.5	3	54	19	0	7	36	50	S.	0	24.0	5.4	2	15
20	23	45	3	40		2	55.0	4.5	3	50	20	0	8	26	50		0	18.6	5.4	2	12
21	23	45	43	41		2	50.5	4.5	3	47	21	0	9	15	50		0	13.2	5.5	2	9
22	23	46	24	41	S.	2	45.9	4.6	3	44	22	0	10	5	49	S.	0	7.7	5.5	2	6
23	23	47	5	42		2	41.3	4.7	3	41	23	0	10	54	50	S.	0	2.2	5.5	2	2
24	23	47	47	41		2	36.6	4.7	3	37	24	0	11	44	50	N.	0	3.3	5.5	1	59
25	23	48	28	43	S.	2	31.9	4.8	3	34	25	0	12	34	51	N.	0	8.8	5.6	1	56
26	23	49	11	42		2	27.1	4.7	3	31	26	0	13	25	50		0	14.4	5.5	1	53
27	23	49	53	43		2	22.4	4.8	3	28	27	0	14	15	51		0	19.9	5.6	1	50
28	23	50	36	44	S.	2	17.6	4.9	3	24	28	0	15	6	51	N.	0	25.5	5.6	1	47
29	23	51	20	43		2	12.7	4.9	3	21	29	0	15	57	51		0	31.1	5.6	1	44
30	23	52	3	44		2	7.8	4.9	3	18											
31	23	52	47	45		2	2.9	5.0	3	15	30	0	16	48		N.	0	36.7		1	41
32	23	53	32		S.	1	57.9		3	12											

GREENWICH MEAN TIME.

MARCH						APRIL															
Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.										
	R. A.		Dec.			R. A.		Dec.			R. A.		Dec.								
	h	m	s	diff.	°	'	diff.	h	m		h	m	s	diff.	°	'	diff.	h	m		
1	0	16	48	51	N.	0	36.7	5.6	1	41	1	0	44	0	53	N.	3	33.0	5.6	0	6
2	0	17	39	51		0	42.3	5.6	1	38	2	0	44	53	54		3	38.6	5.7	0	3
3	0	18	30	52		0	47.9	5.6	1	35	3	0	45	47	53		3	44.3	5.7	0	3
4	0	19	22	51	N.	0	53.5	5.7	1	32	4	0	46	40	54	N.	3	50.0	5.6	23	54
5	0	20	13	52		0	59.2	5.6	1	28	5	0	47	34	54		3	55.6	5.7	23	51
6	0	21	5	52		1	4.8	5.7	1	25	6	0	48	28	53		4	1.3	5.6	23	48
7	0	21	57	52	N.	1	10.5	5.6	1	22	7	0	49	21	54	N.	4	6.9	5.6	23	45
8	0	22	49	52		1	16.1	5.7	1	19	8	0	50	15	53		4	12.5	5.6	23	42
9	0	23	41	52		1	21.8	5.7	1	16	9	0	51	8	54		4	18.1	5.6	23	39
10	0	24	33	52	N.	1	27.5	5.7	1	13	10	0	52	2	53	N.	4	23.7	5.6	23	36
11	0	25	25	52		1	33.2	5.7	1	10	11	0	52	55	53		4	29.3	5.6	23	32
12	0	26	17	53		1	38.9	5.7	1	7	12	0	53	48	54		4	34.9	5.5	23	29
13	0	27	10	53	N.	1	44.6	5.7	1	4	13	0	54	42	53	N.	4	40.4	5.6	23	26
14	0	28	3	52		1	50.3	5.7	1	1	14	0	55	35	53		4	46.0	5.5	23	23
15	0	28	55	53		1	56.0	5.7	0	58	15	0	56	28	54		4	51.5	5.5	23	20
16	0	29	48	53	N.	2	1.7	5.7	0	55	16	0	57	22	53	N.	4	57.0	5.6	23	17
17	0	30	41	53		2	7.4	5.7	0	52	17	0	58	15	53		5	2.6	5.4	23	14
18	0	31	34	53		2	13.1	5.7	0	49	18	0	59	8	53		5	8.0	5.5	23	11
19	0	32	27	53	N.	2	18.8	5.7	0	46	19	1	0	1	53	N.	5	13.5	5.5	23	8
20	0	33	20	53		2	24.5	5.7	0	43	20	1	0	54	53		5	19.0	5.5	23	5
21	0	34	13	53		2	30.2	5.7	0	40	21	1	1	47	53		5	24.4	5.5	23	2
22	0	35	6	53	N.	2	36.0	5.7	0	36	22	1	2	40	53	N.	5	29.9	5.4	22	59
23	0	35	59	53		2	41.7	5.7	0	33	23	1	3	33	53		5	35.3	5.3	22	56
24	0	36	52	54		2	47.4	5.7	0	30	24	1	4	25	53		5	40.6	5.4	22	53
25	0	37	46	53	N.	2	53.1	5.7	0	27	25	1	5	18	53	N.	5	46.0	5.4	22	50
26	0	38	39	53		2	58.8	5.7	0	24	26	1	6	11	53		5	51.4	5.4	22	47
27	0	39	32	54		3	4.5	5.7	0	21	27	1	7	3	52		5	56.7	5.3	22	44
28	0	40	26	53	N.	3	10.2	5.7	0	18	28	1	7	55	53	N.	6	2.0	5.3	22	41
29	0	41	19	54		3	15.9	5.7	0	15	29	1	8	48	53		6	7.3	5.3	22	37
30	0	42	13	53		3	21.6	5.7	0	12	30	1	9	40	52		6	12.6	5.2	22	34
31	0	43	6	54		3	27.3	5.7	0	9											
32	0	44	0		N.	3	33.0		0	6	31	1	10	32		N.	6	17.8		22	31



GREENWICH MEAN TIME.

MAY										JUNE									
Day.	At Greenwich Mean Noon.					Meridian Passage.	Day.	At Greenwich Mean Noon.					Meridian Passage.						
	R. A.		Dec.					R. A.		Dec.									
	h	m	s	diff.	°	'	diff.	h	m	s	diff.	°	'	diff.	h	m			
1	1	10	32	52	N.	6	17.8	5.3	22	31	1	2	31	4.6	20	55			
2	1	11	24	52		6	23.1	5.3	22	28	2	3	50	4.6	20	52			
3	1	12	16	51		6	28.3	5.1	22	25	3	3	36	4.5	20	48			
4	1	13	7	52	N.	6	33.4	5.2	22	22	4	3	21	4.6	20	45			
5	1	13	59	51		6	38.6	5.1	22	19	5	3	7	4.4	20	42			
6	1	14	50	52		6	43.7	5.1	22	16	6	3	51	4.5	20	39			
7	1	15	42	51	N.	6	48.8	5.1	22	13	7	3	40	4.4	20	36			
8	1	16	33	51		6	53.9	5.1	22	10	8	3	20	4.4	20	33			
9	1	17	24	50		6	59.0	5.0	22	7	9	3	4	4.4	20	29			
10	1	18	14	51	N.	7	4.0	5.0	22	4	10	3	42	4.3	20	26			
11	1	19	5	51		7	9.0	5.0	22	1	11	3	31	4.3	20	23			
12	1	19	56	50		7	14.0	4.9	21	57	12	3	14	4.2	20	20			
13	1	20	46	50	N.	7	18.9	4.9	21	54	13	3	44	4.3	20	16			
14	1	21	36	50		7	23.8	4.9	21	51	14	3	39	4.2	20	13			
15	1	22	26	50		7	28.7	4.9	21	48	15	3	21	4.1	20	10			
16	1	23	16	49	N.	7	33.6	4.8	21	45	16	3	47	4.1	20	7			
17	1	24	5	50		7	38.4	4.8	21	42	17	3	43	4.1	20	3			
18	1	24	55	49		7	43.2	4.8	21	39	18	3	24	4.1	20	0			
19	1	25	44	49	N.	7	48.0	4.7	21	36	19	3	49	4.0	19	57			
20	1	26	33	49		7	52.7	4.8	21	33	20	3	45	4.0	19	54			
21	1	27	22	49		7	57.5	4.6	21	29	21	3	25	3.9	19	50			
22	1	28	11	48	N.	8	2.1	4.7	21	26	22	3	51	3.9	19	47			
23	1	28	59	48		8	6.8	4.6	21	23	23	3	43	3.9	19	44			
24	1	29	47	48		8	11.4	4.6	21	20	24	3	22	3.8	19	40			
25	1	30	35	48	N.	8	16.0	4.5	21	17	25	3	0	3.8	19	37			
26	1	31	23	47		8	20.5	4.5	21	14	26	3	38	3.8	19	34			
27	1	32	10	47		8	25.1	4.4	21	11	27	3	15	3.7	19	31			
28	1	32	58	47	N.	8	29.5	4.5	21	7	28	3	52	3.6	19	27			
29	1	33	45	47		8	34.0	4.4	21	4	29	3	28	3.6	19	24			
30	1	34	32	46		8	38.4	4.4	21	1	30	3	4	3.6	19	21			
31	1	35	18	46		8	42.8	4.3	20	58	31	3	4	3.6	19	17			
32	1	36	4		N.	8	47.1		20	55	32	3	40		19	17			

GREENWICH MEAN TIME.

JULY										AUGUST									
Day.	At Greenwich Mean Noon.					Meridian Passage.	Day.	At Greenwich Mean Noon.					Meridian Passage.						
	R. A.		Dec.					R. A.		Dec.									
	h	m	s	diff.	°	'	diff.	h	m	s	diff.	°	'	diff.	h	m			
1	1	56	40	35	N.	10	38.3	3.0	19	17	1	2	41	1.7	17	29			
2	1	57	15	35		10	41.3	2.9	19	14	2	2	58	1.3	17	25			
3	1	57	50	34		10	44.2	3.0	19	10	3	2	15	1.2	17	22			
4	1	58	24	33	N.	10	47.2	2.8	19	7	4	2	11	1.6	17	18			
5	1	58	57	34		10	50.0	2.8	19	4	5	2	11	1.4	17	14			
6	1	59	31	32		10	52.8	2.8	19	0	6	2	12	1.4	17	11			
7	2	0	3	33	N.	10	55.6	2.7	18	57	7	2	12	1.4	17	7			
8	2	0	36	31		10	58.3	2.6	18	54	8	2	12	1.2	17	3			
9	2	1	7	31		11	0.9	2.6	18	50	9	2	12	1.2	16	59			
10	2	1	38	31	N.	11	3.5	2.5	18	47	10	2	12	1.1	16	56			
11	2	2	9	30		11	6.0	2.5	18	43	11	2	13	1.1	16	52			
12	2	2	39	30		11	8.5	2.5	18	40	12	2	13	1.0	16	48			
13	2	3	9	29	N.	11	11.0	2.3	18	36	13	2	13	0.8	16	44			
14	2	3	38	28		11	13.3	2.4	18	33	14	2	13	0.8	16	41			
15	2	4	6	28		11	15.7	2.2	18	29	15	2	13	0.7	16	37			
16	2	4	34	28	N.	11	17.9	2.3	18	26	16	2	13	0.7	16	33			
17	2	5	2	27		11	20.2	2.3	18	23	17	2	13	0.6	16	29			
18	2	5	29	26		11	22.3	2.1	18	19	18	2	14	0.6	16	25			
19	2	5	55	26	N.	11	24.4	2.1	18	16	19	2	14	0.5	16	22			
20	2	6	21	25		11	26.5	2.0	18	12	20	2	14	0.5	16	18			
21	2	6	46	24		11	28.5	1.9	18	8	21	2	14	0.4	16	14			
22	2	7	10	24	N.	11	30.4	1.9	18	5	22	2	14	0.4	16	10			
23	2	7	34	24		11	32.3	1.8	18	1	23	2	14	0.3	16	6			
24	2	7	58	22		11	34.1	1.8	17	58	24	2	14	0.2	16	2			
25	2	8	20	22	N.	11	35.9	1.7	17	54	25	2	14	0.2	15	58			
26	2	8	42	22		11	37.6	1.6	17	51	26	2	14	0.2	15	54			
27	2	9	4	20		11	39.2	1.6	17	47	27	2	14	0.1	15	50			
28	2	9	24	21	N.	11	40.8	1.5	17	44	28	2	14	0.1	15	46			
29	2	9	45	19		11	42.3	1.5	17	40	29	2	14	0.1	15	42			
30	2	10	4	19		11	43.8	1.4	17	36	30	2	14	0.1	15	38			
31	2	10	23	18		11	45.2	1.3	17	33	31	2	14	0.1	15	34			
32	2	10	41		N.	11	46.5		17	29	32	2	14	0.0	15	30			



GREENWICH MEAN TIME.

SEPTEMBER						OCTOBER													
Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.			Meridian Passage.										
	R. A.	Dec.				R. A.	Dec.												
	h	m	s	diff.	°	'	diff.	h	m		h	m	s	diff.	°	'	diff.	h	m
1	2	14	5	6	N. 11	56.7	0.7	15	30	1	2	6	6	2.6	N. 11	9.6	2.3	13	24
2	13	59	6		11	56.0	0.8	15	26	2	5	40	2.6	11	7.3	2.4	13	20	
3	13	53	7		11	55.2	0.8	15	22	3	5	14	2.6	11	4.9	2.5	13	15	
4	13	46	8		N. 11	54.4	0.9	15	18	4	4	48	2.7	N. 11	2.4	2.5	13	11	
5	13	38	9		11	53.5	1.0	15	14	5	4	21	2.8	10	59.9	2.5	13	7	
6	13	29	9		11	52.5	1.0	15	10	6	3	53	2.7	10	57.4	2.5	13	2	
7	13	20	10		N. 11	51.5	1.1	15	6	7	3	26	2.8	N. 10	54.9	2.6	12	58	
8	13	10	11		11	50.4	1.1	15	2	8	2	58	2.9	10	52.3	2.6	12	53	
9	12	59	12		11	49.3	1.3	14	58	9	2	29	2.9	10	49.7	2.6	12	49	
10	12	47	12		N. 11	48.0	1.2	14	54	10	2	0	2.9	N. 10	47.1	2.6	12	45	
11	12	35	13		11	46.8	1.4	14	49	11	1	31	2.9	10	44.5	2.6	12	40	
12	12	22	14		11	45.4	1.4	14	45	12	1	2	3.0	10	41.8	2.7	12	36	
13	12	8	15		N. 11	44.0	1.4	14	41	13	0	32	3.0	N. 10	39.1	2.7	12	31	
14	11	53	15		11	42.6	1.5	14	37	14	0	2	3.0	10	36.4	2.7	12	27	
15	11	38	16		11	41.1	1.6	14	33	15	59	32	3.0	10	33.7	2.8	12	23	
16	11	22	17		N. 11	39.5	1.6	14	28	16	59	2	3.1	N. 10	30.9	2.7	12	18	
17	11	5	17		11	37.9	1.7	14	24	17	58	31	3.0	10	28.2	2.8	12	14	
18	10	48	18		11	36.2	1.7	14	20	18	58	1	3.1	10	25.4	2.8	12	9	
19	10	30	19		N. 11	34.5	1.8	14	16	19	57	30	3.1	N. 10	22.6	2.7	12	5	
20	10	11	19		11	32.7	1.8	14	12	20	56	59	3.1	10	19.9	2.7	12	0	
21	9	52	20		11	30.8	1.9	14	7	21	56	28	3.1	10	17.1	2.8	11	56	
22	9	32	20		N. 11	28.9	1.9	14	3	22	55	57	3.1	N. 10	14.3	2.8	11	51	
23	9	12	22		11	27.0	2.0	13	59	23	55	26	3.1	10	11.5	2.8	11	47	
24	8	50	21		11	25.0	2.1	13	55	24	54	55	3.1	10	8.7	2.8	11	43	
25	8	29	23		N. 11	22.9	2.1	13	50	25	54	24	3.1	N. 10	5.9	2.7	11	38	
26	8	6	23		11	20.8	2.1	13	46	26	53	53	3.1	10	3.2	2.7	11	34	
27	7	43	23		11	18.7	2.2	13	42	27	53	22	3.1	10	0.4	2.7	11	29	
28	7	20	24		N. 11	16.5	2.3	13	37	28	52	51	3.1	N. 9	57.7	2.8	11	25	
29	6	66	25		11	14.2	2.3	13	33	29	52	20	3.1	9	54.9	2.8	11	20	
30	6	31	25		11	11.9	2.3	13	29	30	51	49	3.0	9	52.2	2.7	11	16	
31	6	6	25		N. 11	9.6	2.3	13	24	31	51	19	3.0	9	49.5	2.7	11	11	
32	6	6			N. 11	9.6		13	24	32	50	49		N. 9	46.8		11	7	

GREENWICH MEAN TIME.

NOVEMBER						DECEMBER													
Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.			Meridian Passage.										
	R. A.	Dec.				R. A.	Dec.												
	h	m	s	diff.	°	'	diff.	h	m		h	m	s	diff.	°	'	diff.	h	m
1	1	50	49	30	N. 9	46.8	2.6	11	7	1	1	38	47	15	N. 8	45.6	1.2	8	57
2	50	19	30		9	44.2	2.7	11	3	2	38	32	14		8	44.4	1.0	8	53
3	49	49	30		9	41.5	2.6	10	58	3	38	18	13		8	43.4	1.0	8	49
4	49	19	29		N. 9	38.9	2.6	10	54	4	38	5	13	N. 8	42.4	0.9	8	45	
5	48	50	29		9	36.3	2.5	10	49	5	37	52	12		8	41.5	0.9	8	41
6	48	21	29		9	33.8	2.5	10	45	6	37	40	12		8	40.6	0.7	8	36
7	47	52	28		N. 9	31.3	2.5	10	41	7	37	28	10	N. 8	39.9	0.7	8	32	
8	47	24	28		9	28.8	2.4	10	36	8	37	18	10		8	39.2	0.6	8	28
9	46	56	28		9	26.4	2.4	10	32	9	37	8	9		8	38.6	0.6	8	24
10	46	28	27		N. 9	24.0	2.4	10	27	10	36	59	8	N. 8	38.0	0.5	8	20	
11	46	1	27		9	21.6	2.4	10	23	11	36	51	8		8	37.5	0.4	8	16
12	45	34	27		9	19.3	2.3	10	19	12	36	43	6		8	37.1	0.3	8	12
13	45	8	26		N. 9	17.0	2.2	10	14	13	36	37	6	N. 8	36.8	0.2	8	8	
14	44	42	26		9	14.8	2.2	10	10	14	36	31	6		8	36.6	0.2	8	4
15	44	16	25		9	12.6	2.1	10	6	15	36	25	4		8	36.4	0.1	8	0
16	43	51	24		N. 9	10.5	2.1	10	1	16	36	21	3	N. 8	36.3	0.0	7	56	
17	43	27	24		9	8.4	2.0	9	57	17	36	18	3		8	36.3	0.0	7	52
18	43	3	23		9	6.4	2.0	9	53	18	36	15	2		8	36.4	0.1	7	48
19	42	40	23		N. 9	4.4	1.9	9	48	19	36	13	2	N. 8	36.5	0.2	7	44	
20	42	17	22		9	2.5	1.9	9	44	20	36	11	0		8	36.7	0.3	7	40
21	41	55	22		9	0.6	1.8	9	40	21	36	11	0		8	37.0	0.4	7	36
22	41	33	21		N. 8	58.8	1.7	9	35	22	36	11	1	N. 8	37.4	0.4	7	32	
23	41	12	20		8	57.1	1.7	9	31	23	36	12	2		8	37.8	0.6	7	28
24	40	52	20		8	55.4	1.6	9	27	24	36	14	3		8	38.4	0.6	7	24
25	40	32	19		N. 8	53.8	1.5	9	23	25	36	17	4	N. 8	39.0	0.6	7	20	
26	40	13	19		8	52.3	1.5	9	18	26	36	21	4		8	39.6	0.8	7	17
27	39	54	18		8	50.8	1.4	9	14	27	36	25	5		8	40.4	0.8	7	13
28	39	36	17		N. 8	49.4	1.4	9	10	28	36	30	6	N. 8	41.2	0.9	7	9	
29	39	19	16		8	48.0	1.2	9	6	29	36	36	6		8	42.1	1.0	7	5
30	39	3	16		8	46.8	1.2	9	1	30	36	42	8		8	43.1	1.0	7	1
31	38	47			N. 8	45.6		8	57	31	36	50	8		8	44.1	1.2	6	57
32	38	47			N. 8	45.6		8	57	32	36	58		N. 8	45.3		6	54	



GREENWICH MEAN TIME.

JANUARY						FEBRUARY					
Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.			Meridian Passage.		
	R. A.	Dec.				R. A.	Dec.				
	h	m	s	diff.	°	'	diff.	h	m		
1	6	57	33	20	N. 22	18.1	0.5	12	16	1	
2	6	57	13	22	22	18.6	0.6	12	12	2	
3	6	56	51	21	22	19.2	0.6	12	8	3	
4	6	56	30	21	N. 22	19.8	0.6	12	3	4	
5	6	56	9	22	22	20.4	0.6	11	59	5	
6	6	55	47	21	22	21.0	0.6	11	55	6	
7	6	55	26	21	N. 22	21.6	0.6	11	50	7	
8	6	55	5	22	22	22.2	0.5	11	46	8	
9	6	54	43	21	22	22.7	0.6	11	42	9	
10	6	54	22	21	N. 22	23.3	0.6	11	38	10	
11	6	54	1	21	22	23.9	0.6	11	33	11	
12	6	53	40	21	22	24.5	0.5	11	29	12	
13	6	53	19	20	N. 22	25.0	0.6	11	25	13	
14	6	52	59	21	22	25.6	0.5	11	20	14	
15	6	52	38	21	22	26.1	0.6	11	16	15	
16	6	52	17	20	N. 22	26.7	0.5	11	12	16	
17	6	51	57	20	22	27.2	0.6	11	8	17	
18	6	51	37	20	22	27.8	0.5	11	3	18	
19	6	51	17	20	N. 22	28.3	0.5	10	59	19	
20	6	50	57	20	22	28.8	0.6	10	55	20	
21	6	50	37	20	22	29.4	0.5	10	51	21	
22	6	50	17	19	N. 22	29.9	0.5	10	46	22	
23	6	49	58	19	22	30.4	0.5	10	42	23	
24	6	49	39	19	22	30.9	0.5	10	38	24	
25	6	49	20	18	N. 22	31.4	0.5	10	34	25	
26	6	49	2	18	22	31.9	0.5	10	29	26	
27	6	48	43	19	22	32.4	0.5	10	25	27	
28	6	48	25	18	N. 22	32.9	0.4	10	21	28	
29	6	48	7	17	22	33.3	0.5	10	17	29	
30	6	47	50	17	22	33.8	0.5	10	12	30	
31	6	47	33	17	22	34.3	0.4	10	8	31	
32	6	47	16		N. 22	34.7		10	4	32	

GREENWICH MEAN TIME.

MARCH						APRIL					
Day.	At Greenwich Mean Noon.			Meridian Passage.	Day.	At Greenwich Mean Noon.			Meridian Passage.		
	R. A.	Dec.				R. A.	Dec.				
	h	m	s	diff.	°	'	diff.	h	m		
1	6	41	51	5	N. 22	44.5	0.2	8	5	1	
2	6	41	46	4	22	44.7	0.2	8	1	2	
3	6	41	42	4	22	44.9	0.2	7	57	3	
4	6	41	38	3	N. 22	45.1	0.2	7	53	4	
5	6	41	35	3	22	45.3	0.2	7	49	5	
6	6	41	32	2	22	45.5	0.2	7	45	6	
7	6	41	30	2	N. 22	45.7	0.2	7	41	7	
8	6	41	28	1	22	45.9	0.1	7	37	8	
9	6	41	27	0	22	46.0	0.2	7	33	9	
10	6	41	27	1	N. 22	46.2	0.1	7	29	10	
11	6	41	26	1	22	46.3	0.1	7	25	11	
12	6	41	27	0	22	46.4	0.2	7	21	12	
13	6	41	27	1	N. 22	46.6	0.1	7	17	13	
14	6	41	28	1	22	46.7	0.1	7	13	14	
15	6	41	30	2	22	46.8	0.1	7	9	15	
16	6	41	32	3	N. 22	46.9	0.1	7	5	16	
17	6	41	35	3	22	47.0	0.1	7	2	17	
18	6	41	38	4	22	47.1	0.0	6	58	18	
19	6	41	42	4	N. 22	47.1	0.1	6	54	19	
20	6	41	46	4	22	47.2	0.1	6	50	20	
21	6	41	50	6	22	47.3	0.0	6	46	21	
22	6	41	56	5	N. 22	47.3	0.1	6	42	22	
23	6	42	1	6	22	47.4	0.0	6	38	23	
24	6	42	7	7	22	47.4	0.0	6	35	24	
25	6	42	14	6	N. 22	47.4	0.0	6	31	25	
26	6	42	20	6	22	47.4	0.0	6	27	26	
27	6	42	28	8	22	47.4	0.0	6	23	27	
28	6	42	36	8	N. 22	47.4	0.0	6	19	28	
29	6	42	44	9	22	47.4	0.0	6	16	29	
30	6	42	53	9	22	47.4	0.0	6	12	30	
31	6	43	2	10	22	47.4	0.1	6	8	31	
32	6	43	12		N. 22	47.3		6	4	32	



GREENWICH MEAN TIME.

MAY										JUNE									
Day.	At Greenwich Mean Noon.					Meridian Passage.	Day.	At Greenwich Mean Noon.					Meridian Passage.						
	R. A.		Dec.					R. A.		Dec.									
	h	m	s	diff.	°	'	diff.	h	m	s	diff.	°	'	diff.	h	m			
1	6	51	17	22	N. 22	41.8	0.3	4	14	1	30	N. 22	26.4	0.7	2	26			
2	6	51	39	23	22	41.5	0.4	4	11	2	30	22	25.7	0.7	2	23			
3	6	52	2	22	22	41.1	0.3	4	7	3	30	22	25.0	0.7	2	19			
4	6	52	24	23	N. 22	40.8	0.4	4	4	4	30	N. 22	24.3	0.7	2	16			
5	6	52	47	23	22	40.4	0.4	4	0	7	31	22	23.6	0.7	2	12			
6	6	53	10	24	22	40.0	0.4	3	57	6	31	22	22.9	0.7	2	9			
7	6	53	34	24	N. 22	39.6	0.4	3	53	7	30	N. 22	22.2	0.8	2	5			
8	6	53	58	24	22	39.2	0.4	3	50	7	31	22	21.4	0.7	2	2			
9	6	54	22	24	22	38.8	0.4	3	46	7	31	22	20.7	0.8	1	59			
10	6	54	46	25	N. 22	38.4	0.4	3	42	7	32	N. 22	19.9	0.8	1	55			
11	6	55	11	25	22	38.0	0.5	3	39	7	31	22	19.1	0.8	1	52			
12	6	55	36	25	22	37.5	0.4	3	35	7	32	22	18.3	0.7	1	48			
13	6	56	1	26	N. 22	37.1	0.5	3	32	7	31	N. 22	17.6	0.8	1	45			
14	6	56	27	26	22	36.6	0.5	3	28	7	32	22	16.8	0.9	1	41			
15	6	56	53	26	22	36.1	0.5	3	25	7	32	22	15.9	0.8	1	38			
16	6	57	19	26	N. 22	35.6	0.4	3	21	7	32	N. 22	15.1	0.8	1	35			
17	6	57	45	27	22	35.2	0.6	3	18	7	32	22	14.3	0.9	1	31			
18	6	58	12	27	22	34.6	0.5	3	14	7	32	22	13.4	0.8	1	28			
19	6	58	39	27	N. 22	34.1	0.5	3	11	7	33	N. 22	12.6	0.9	1	24			
20	6	59	6	28	22	33.6	0.6	3	7	7	33	22	11.7	0.9	1	21			
21	6	59	33	28	22	33.0	0.5	3	4	7	32	22	10.9	0.9	1	18			
22	7	0	1	27	N. 22	32.5	0.6	3	1	7	33	N. 22	10.0	0.9	1	14			
23	7	0	28	28	22	31.9	0.5	2	57	7	32	22	9.1	0.9	1	11			
24	7	0	56	29	22	31.4	0.6	2	54	7	33	22	8.2	0.9	1	8			
25	7	1	25	28	N. 22	30.8	0.6	2	50	7	33	N. 22	7.3	1.0	1	4			
26	7	1	53	29	22	30.2	0.6	2	47	7	33	22	6.3	1.0	1	1			
27	7	2	22	29	22	29.6	0.6	2	43	7	33	22	5.4	0.9	0	57			
28	7	2	51	29	N. 22	28.9	0.6	2	40	7	33	N. 22	4.5	1.0	0	54			
29	7	3	20	29	22	28.3	0.6	2	36	7	33	22	3.5	1.0	0	51			
30	7	3	49	29	22	27.7	0.7	2	33	7	33	22	2.6	0.9	0	47			
31	7	4	18	30	22	27.0	0.6	2	29	7	33	N. 22	1.6	1.0	0	44			
32	7	4	48	30	N. 22	26.4	0.6	2	26	7	33	N. 22	1.6	1.0	0	44			

GREENWICH MEAN TIME.

JULY										AUGUST									
Day.	At Greenwich Mean Noon.					Meridian Passage.	Day.	At Greenwich Mean Noon.					Meridian Passage.						
	R. A.		Dec.					R. A.		Dec.									
	h	m	s	diff.	°	'	diff.	h	m	s	diff.	°	'	diff.	h	m			
1	7	20	41	33	N. 22	1.6	1.0	0	44	1	32	N. 21	28.0	1.2	22	55			
2	7	21	14	33	22	0.6	1.0	0	40	7	32	21	26.5	1.1	22	52			
3	7	21	47	33	21	59.6	1.0	0	37	7	32	21	25.6	1.2	22	49			
4	7	22	20	33	N. 21	58.6	1.0	0	34	7	31	N. 21	24.5	1.2	22	45			
5	7	22	53	34	21	57.6	1.0	0	30	7	32	21	23.3	1.2	22	42			
6	7	23	27	33	21	56.6	1.0	0	27	7	32	21	22.1	1.1	22	38			
7	7	24	0	33	N. 21	55.6	1.0	0	24	7	31	N. 21	21.0	1.2	22	35			
8	7	24	33	33	21	54.6	1.1	0	20	7	32	21	19.8	1.2	22	32			
9	7	25	6	34	21	53.5	1.0	0	17	7	31	21	18.6	1.2	22	28			
10	7	25	40	33	N. 21	52.5	1.0	0	13	7	31	N. 21	17.4	1.2	22	25			
11	7	26	13	33	21	51.5	1.1	0	10	7	31	21	16.2	1.1	22	21			
12	7	26	46	33	21	50.4	1.1	0	7	7	31	21	15.1	1.2	22	18			
13	7	27	19	34	N. 21	49.3	1.0	0	3	7	31	N. 21	13.9	1.2	22	15			
14	7	27	53	33	21	48.3	1.1	23	56	7	30	21	12.7	1.2	22	11			
15	7	28	26	33	21	47.2	1.1	23	53	7	31	21	11.5	1.2	22	8			
16	7	28	59	33	N. 21	46.1	1.1	23	50	7	30	N. 21	10.3	1.2	22	4			
17	7	29	32	33	21	45.0	1.1	23	46	7	30	21	9.1	1.2	22	1			
18	7	30	5	34	21	43.9	1.1	23	43	7	30	21	8.0	1.1	21	57			
19	7	30	39	33	N. 21	42.8	1.1	23	40	7	29	N. 21	6.8	1.2	21	54			
20	7	31	12	33	21	41.7	1.1	23	36	7	30	21	5.6	1.2	21	51			
21	7	31	45	33	21	40.6	1.1	23	33	7	29	21	4.4	1.1	21	47			
22	7	32	18	33	N. 21	39.5	1.2	23	29	7	28	N. 21	3.3	1.2	21	44			
23	7	32	51	33	21	38.3	1.1	23	26	7	28	21	2.1	1.2	21	40			
24	7	33	24	32	21	37.2	1.1	23	23	7	29	21	0.9	1.2	21	37			
25	7	33	56	33	N. 21	36.1	1.2	23	19	7	28	N. 20	59.7	1.1	21	33			
26	7	34	29	33	21	34.9	1.1	23	16	7	28	20	58.6	1.2	21	30			
27	7	35	2	32	21	33.8	1.2	23	12	7	28	20	57.4	1.1	21	26			
28	7	35	34	33	N. 21	32.6	1.1	23	9	7	28	N. 20	56.3	1.2	21	23			
29	7	36	7	33	21	31.5	1.2	23	6	7	28	20	55.1	1.1	21	19			
30	7	36	40	33	21	30.3	1.1	23	2	7	27	20	54.0	1.2	21	16			
31	7	37	12	32	21	29.2	1.2	22	59	7	28	20	52.8	1.2	21	12			
32	7	37	44	32	N. 21	28.0	1.2	22	55	7	28	N. 20	51.7	1.1	21	9			



GREENWICH MEAN TIME.

SEPTEMBER										OCTOBER											
Day.	At Greenwich Mean Noon.				Meridian Passage.	Day.	At Greenwich Mean Noon.				Meridian Passage.										
	R. A.		Dec.				R. A.		Dec.												
	h	m	s	diff.	°	'	diff.	h	m		h	m	s	diff.	°	'	diff.	h	m		
1	7	53	16	27	N.	20	51.7	1.1	21	9	1	8	4	44	18	N.	20	22.0	0.8	19	22
2	7	53	43	27				1.1	21	5	2	8	5	2	18			0.8	19	19	
3	7	54	10	26				1.2	21	2	3	8	5	20	17			0.7	19	15	
4	7	54	36	26	N.	20	48.3	1.1	20	58	4	8	5	37	16	N.	20	19.7	0.7	19	11
5	7	55	2	26				1.1	20	55	5	8	5	53	17			0.7	19	8	
6	7	55	28	26				1.0	20	51	6	8	6	10	16			0.7	19	4	
7	7	55	54	26	N.	20	45.1	1.1	20	48	7	8	6	26	16	N.	20	17.6	0.7	19	0
8	7	56	20	25				1.1	20	44	8	8	6	42	15			0.7	18	57	
9	7	56	45	25				1.1	20	41	9	8	6	57	15			0.6	18	53	
10	7	57	10	25	N.	20	41.8	1.0	20	37	10	8	7	12	14	N.	20	15.6	0.7	18	49
11	7	57	35	24				1.1	20	34	11	8	7	26	14			0.6	18	46	
12	7	57	59	24				1.0	20	30	12	8	7	40	14			0.6	18	42	
13	7	58	23	24	N.	20	38.7	1.0	20	27	13	8	7	54	13	N.	20	13.7	0.5	18	38
14	7	58	47	23				1.1	20	23	14	8	8	7	13			0.6	18	34	
15	7	59	10	24				1.0	20	20	15	8	8	20	12			0.5	18	31	
16	7	59	34	23	N.	20	35.6	1.0	20	16	16	8	8	32	12	N.	20	12.1	0.5	18	27
17	7	59	57	22				1.0	20	13	17	8	8	44	12			0.5	18	23	
18	8	0	19	23				0.9	20	9	18	8	8	56	11			0.5	18	20	
19	8	0	42	22	N.	20	32.7	1.0	20	6	19	8	9	7	11	N.	20	10.6	0.4	18	16
20	8	1	4	21				0.9	20	2	20	8	9	18	10			0.4	18	12	
21	8	1	25	22				1.0	19	58	21	8	9	28	10			0.4	18	8	
22	8	1	47	21	N.	20	29.8	0.9	19	55	22	8	9	38	9	N.	20	9.4	0.4	18	4
23	8	2	8	21				0.9	19	51	23	8	9	47	9			0.4	18	1	
24	8	2	29	20				0.9	19	48	24	8	9	56	8			0.3	17	57	
25	8	2	49	20	N.	20	27.1	0.9	19	44	25	8	10	4	9	N.	20	8.3	0.3	17	53
26	8	3	9	20				0.9	19	40	26	8	10	13	9			0.3	17	49	
27	8	3	29	19				0.8	19	37	27	8	10	20	7			0.3	17	46	
28	8	3	48	19	N.	20	24.5	0.8	19	33	28	8	10	27	7	N.	20	7.4	0.2	17	42
29	8	4	7	19				0.9	19	30	29	8	10	34	6			0.2	17	38	
30	8	4	26	18				0.8	19	26	30	8	10	40	6			0.2	17	34	
31	8	4	44		N.	20	22.0		19	22	31	8	10	46	5			0.2	17	30	
32											32	8	10	51		N.	20	6.6		17	26

GREENWICH MEAN TIME.

NOVEMBER										DECEMBER											
Day.	At Greenwich Mean Noon.				Meridian Passage.	Day.	At Greenwich Mean Noon.				Meridian Passage.										
	R. A.		Dec.				R. A.		Dec.												
	h	m	s	diff.	°	'	diff.	h	m		h	m	s	diff.	°	'	diff.	h	m		
1	8	10	51	5	N.	20	6.6	0.1	17	26	1	8	9	55	9	N.	20	12.9	0.6	15	27
2	8	10	56	5				0.1	17	22	2	8	9	46	10			0.6	15	23	
3	8	11	1	3				0.1	17	19	3	8	9	36	10			0.6	15	19	
4	8	11	4	4	N.	20	6.3	0.1	17	15	4	8	9	26	10	N.	20	14.7	0.7	15	15
5	8	11	8	3				0.0	17	11	5	8	9	16	11			0.6	15	11	
6	8	11	11	2				0.1	17	7	6	8	9	5	11			0.7	15	7	
7	8	11	13	2	N.	20	6.1	0.0	17	3	7	8	8	54	11	N.	20	16.7	0.7	15	3
8	8	11	15	2				0.1	16	59	8	8	8	43	12			0.7	14	59	
9	8	11	17	1				0.0	16	55	9	8	8	31	12			0.8	14	54	
10	8	11	18	1	N.	20	6.2	0.1	16	51	10	8	8	19	13	N.	20	18.9	0.7	14	50
11	8	11	19	0				0.1	16	47	11	8	8	6	13			0.7	14	46	
12	8	11	19	0				0.1	16	43	12	8	7	53	13			0.8	14	42	
13	8	11	19	1	N.	20	6.5	0.2	16	40	13	8	7	40	14	N.	20	21.2	0.8	14	38
14	8	11	18	1				0.1	16	36	14	8	7	26	14			0.8	14	34	
15	8	11	17	2				0.2	16	32	15	8	7	12	14			0.9	14	29	
16	8	11	15	2	N.	20	7.0	0.3	16	28	16	8	6	58	15	N.	20	23.7	0.8	14	25
17	8	11	13	3				0.2	16	24	17	8	6	43	15			0.9	14	21	
18	8	11	10	3				0.3	16	20	18	8	6	28	16			0.9	14	17	
19	8	11	7	3	N.	20	7.8	0.3	16	16	19	8	6	12	15	N.	20	26.3	0.9	14	13
20	8	11	4	4				0.3	16	12	20	8	5	57	17			0.9	14	9	
21	8	11	0	5				0.4	16	8	21	8	5	40	16			0.9	14	4	
22	8	10	55	5	N.	20	8.8	0.3	16	4	22	8	5	24	17	N.	20	29.1	0.9	14	0
23	8	10	50	5				0.4	16	0	23	8	5	7	17			1.0	13	56	
24	8	10	45	6				0.4	15	56	24	8	4	50	17			0.9	13	52	
25	8	10	39	6	N.	20	9.9	0.5	15	52	25	8	4	33	18	N.	20	31.9	1.0	13	48
26	8	10	33	7				0.5	15	48	26	8	4	15	18			1.0	13	43	
27	8	10	26	7				0.4	15	44	27	8	3	58	18			1.0	13	39	
28	8	10	19	8	N.	20	11.3	0.5	15	39	28	8	3	40	19	N.	20	34.9	1.0	13	35
29	8	10	11	8				0.5	15	35	29	8	3	21	19			1.0	13	31	
30	8	10	3	8				0.6	15	31	30	8	3	3	19			1.1	13	26	
31								0.5			31	8	2	44	19			1.0	13	22	
32	8	9	55		N.	20	12.9		15	27	32	8	2	25		N.	20	39.0		13	18



JANUARY 1'19

Table with 6 columns: Star's Name, Mag., Right Ascension (h m s), Annual Variation (s), Declination (° /), and Annual Variation ('). Rows include stars like Andromedæ, Cassiopeia, Persei, etc.

JANUARY 1'19

Table with 6 columns: Star's Name, Mag., Right Ascension (h m s), Annual Variation (s), Declination (° /), and Annual Variation ('). Rows include stars like Persei, Eridani, Aurigæ, etc.



JANUARY 1919<sup>d</sup>

Star's Name.	Mag.	Right Ascension.			Declination.	Annual Variation.
		h	m	s		
$\nu$ Argûs .....	3.2	6 35	11.5	+ 1.84	S. 43 7.3	- 0.05
$\epsilon$ Geminorum .....	3.2	6 38	45.9	3.69	N. 25 12.9	0.06
$\xi$ Geminorum .....	3.4	6 40	34.5	3.37	N. 12 59.2	0.06
$\alpha$ Canis Majoris ( <i>Sirius</i> ) .....	- 1.6	6 41	26.6	+ 2.64	S. 16 36.0	- 0.08
$\alpha$ Pictoris .....	3.3	6 47	19.9	0.62	S. 61 51.1	0.06
$\tau$ Argûs .....	2.8	6 47	51.1	1.49	S. 50 30.9	0.07
$\epsilon$ Canis Majoris.....	1.6	6 55	19.5	+ 2.36	S. 28 51.4	- 0.08
$\delta$ Canis Majoris.....	3.7	6 58	22.4	2.39	S. 27 48.8	0.08
$\zeta$ Geminorum .....	3.7-4.3	6 59	7.7	3.56	N. 20 41.7	0.09
$\theta^2$ Canis Majoris .....	3.1	6 59	31.0	+ 2.50	S. 23 42.6	- 0.09
$\delta$ Canis Majoris.....	2.0	7 4	58.5	2.44	S. 26 15.5	0.09
$\pi$ Argûs .....	2.7	7 14	10.6	2.12	S. 36 56.8	0.11
$\delta$ Geminorum .....	3.5	7 15	6.5	+ 3.59	N. 22 8.3	- 0.11
$\delta$ Volantis .....	4.0	7 16	53.0	- 0.02	S. 67 48.2	0.11
$\eta$ Canis Majoris.....	2.4	7 20	46.4	+ 2.37	S. 29 8.3	0.12
$\beta$ Canis Minoris.....	3.1	7 22	35.8	+ 3.26	N. 8 27.6	- 0.12
$\sigma$ Argûs .....	3.3	7 26	33.9	1.90	S. 43 7.8	0.12
$\alpha^2$ Geminorum ( <i>Castor</i> ).....	2.0	7 29	14.6	3.83	N. 32 4.4	0.13
$\alpha^1$ Geminorum .....	2.9	$\Delta\alpha$ - 0.2		+ 3.83	$\Delta\delta$ - 0.1	- 0.13
$\alpha$ Canis Minoris ( <i>Procyon</i> ).....	0.5	7 34	54.3	3.14	N. 5 26.5	0.15
$\beta$ Geminorum ( <i>Pollux</i> ).....	1.2	7 40	10.7	3.68	N. 28 13.8	0.14
$\zeta$ Argûs .....	3.5	7 45	45.7	+ 2.52	S. 24 38.9	- 0.15
$\eta$ Argûs .....	2.3	8 0	37.9	2.11	S. 39 46.0	0.17
$\iota^5$ Argûs .....	2.9	8 3	58.0	2.55	S. 24 3.7	0.17
$\gamma$ Argûs .....	2.2	8 6	56.7	+ 1.85	S. 47 5.3	- 0.18
$\beta$ Cancri.....	3.8	8 11	57.7	3.26	N. 9 26.7	0.18
$\epsilon$ Argûs .....	1.7	8 20	47.5	1.23	S. 59 14.3	0.19
$\zeta^0$ Monocerotis .....	4.0	8 21	27.9	+ 3.00	S. 3 37.9	- 0.19
$\theta$ Ursæ Majoris.....	3.5	8 23	17.9	5.01	N. 61 0.0	0.20
$\alpha$ Mali .....	3.7	8 40	13.0	2.41	S. 32 53.0	0.21
$\epsilon$ Hydræ .....	3.5	8 42	19.8	+ 3.18	N. 6 43.7	- 0.22
$\delta$ Argûs .....	2.0	8 42	22.9	1.65	S. 54 24.0	0.22
$\zeta$ Hydræ .....	3.3	8 50	57.3	3.17	N. 6 16.0	0.23
$\iota$ Ursæ Majoris.....	3.1	8 53	27.8	+ 4.12	N. 48 22.3	- 0.23
$\lambda$ Argûs .....	2.2	9 4	54.3	2.21	S. 43 5.6	0.24
$\beta$ Argûs .....	1.8	9 12	17.0	0.67	S. 69 22.3	0.25
$\iota$ Argûs .....	2.3	9 14	50.4	+ 1.60	S. 58 55.3	- 0.25
$\alpha$ Lyncis .....	3.3	9 15	56.5	3.66	N. 34 44.9	0.25
$\kappa$ Argûs .....	2.6	9 19	30.7	1.86	S. 54 39.1	0.26
$\alpha$ Hydræ .....	2.2	9 23	27.6	+ 2.95	S. 8 17.6	- 0.26
$\theta$ Ursæ Majoris.....	3.3	9 27	14.9	4.03	N. 52 3.7	0.27
$\psi$ Argûs .....	3.6	9 27	23.3	+ 2.36	S. 40 5.9	- 0.26

JANUARY 1919<sup>d</sup>

Star's Name.	Mag.	Right Ascension.			Declination.	Annual Variation.
		h	m	s		
N Velorum .....	3.0	9 28	40.1	+ 1.82	S. 56 39.8	- 0.26
$\theta$ Leonis .....	3.8	9 36	40.2	3.20	N. 10 16.5	0.27
$\epsilon$ Leonis .....	3.1	9 41	5.2	3.41	N. 24 9.7	0.27
$\alpha$ Leonis ( <i>Regulus</i> ) .....	1.3	10 3	54.0	+ 3.20	N. 12 22.7	- 0.29
$\gamma$ Carinæ .....	3.4	10 14	16.5	2.00	S. 60 54.7	0.30
$\gamma^1$ Leonis .....	2.6	10 15	20.6	1.31	N. 20 16.0	0.30
$\gamma^2$ Leonis .....	3.8	$\Delta\alpha$ + 0.3		+ 3.31	$\Delta\delta$ 0.0	- 0.30
$\mu$ Ursæ Majoris.....	3.2	10 17	19.9	3.59	N. 41 55.3	0.30
$\rho$ Leonis .....	3.9	10 28	23.4	3.16	N. 9 44.4	0.31
$\theta$ Argûs .....	3.0	10 39	57.4	+ 2.13	S. 63 57.3	- 0.31
$\eta$ Argûs .....	> 1-7.4	10 41	47.9	2.32	S. 59 14.6	0.31
$\mu$ Argûs .....	2.8	10 43	9.2	2.57	S. 48 58.6	0.32
$\nu$ Hydræ .....	3.3	10 45	28.7	+ 2.96	S. 15 45.2	- 0.31
$\beta$ Ursæ Majoris.....	2.4	10 56	47.0	3.64	N. 56 50.0	0.32
$\alpha$ Ursæ Majoris ( <i>Dubhe</i> ).....	2.0	10 58	33.4	3.73	N. 62 12.3	0.32
$\psi$ Ursæ Majoris.....	3.2	11 4	56.9	+ 3.38	N. 44 57.3	- 0.33
$\delta$ Leonis .....	2.6	11 9	38.6	3.20	N. 20 59.0	0.33
$\theta$ Leonis .....	3.4	11 9	50.0	3.15	N. 15 53.3	0.33
$\delta$ Crateris .....	3.8	11 15	8.4	+ 3.00	S. 14 19.4	- 0.32
$\xi$ Hydræ .....	3.7	11 28	52.1	2.95	S. 31 23.6	0.33
$\lambda$ Centauri .....	3.3	11 31	53.9	2.75	S. 62 33.3	0.33
$\beta$ Leonis ( <i>Denebola</i> ).....	2.2	11 44	46.6	+ 3.06	N. 15 2.5	- 0.34
$\beta$ Virginis .....	3.8	11 46	19.2	3.13	N. 2 14.3	0.34
$\gamma$ Ursæ Majoris.....	2.5	11 49	25.2	3.17	N. 54 9.7	0.33
$\delta$ Centauri .....	2.9	12 3	59.9	+ 3.10	S. 50 15.3	- 0.33
$\epsilon$ Corvi .....	3.2	12 5	48.1	3.08	S. 22 9.2	0.33
$\delta$ Crucis.....	3.1	12 10	40.9	3.18	S. 58 16.9	0.33
$\delta$ Ursæ Majoris.....	3.4	12 11	16.6	+ 2.98	N. 57 30.0	- 0.33
$\gamma$ Corvi .....	2.8	12 11	29.0	3.08	S. 17 4.5	0.33
$\eta$ Virginis .....	4.0	12 15	36.5	3.07	S. 0 12.0	0.33
$\alpha^1$ Crucis.....	1.6	12 21	54.9	+ 3.31	S. 62 38.0	- 0.33
$\alpha^2$ Crucis.....	2.1	$\Delta\alpha$ + 0.6		3.31	$\Delta\delta$ 0.0	0.33
$\beta^2$ Corvi .....	3.1	12 25	31.0	3.10	S. 16 2.9	0.33
$\gamma$ Crucis.....	1.6	12 26	29.7	+ 3.30	S. 56 38.6	- 0.34
$\beta$ Corvi .....	2.8	12 29	58.3	3.15	S. 22 55.9	0.33
$\alpha$ Muscæ .....	2.9	12 32	9.5	3.54	S. 68 40.4	0.33
$\gamma$ Centauri .....	2.4	12 36	52.7	+ 3.30	S. 48 29.9	- 0.33
$\gamma^1$ Virginis .....	3.7	12 37	24.1	3.04	S. 0 59.3	0.33
$\gamma^2$ Virginis .....	3.7	$\Delta\alpha$ + 0.2		3.04	$\Delta\delta$ - 0.1	0.33
$\beta$ Muscæ .....	3.3	12 41	6.8	+ 3.64	S. 67 38.9	- 0.33
$\beta$ Crucis.....	1.5	12 42	48.2	3.48	S. 59 13.8	0.33
$\epsilon$ Ursæ Majoris.....	1.7	12 50	20.3	+ 2.65	N. 56 24.9	- 0.33



d  
JANUARY 1'19

Star's Name.	Mag.	Right Ascension.	Annual Variation.	Declination.	Annual Variation.
		h m s	s	° /	'
δ Virginis .....	3.7	12 51 22.3	+ 3.02	N. 3 51.2	- 0.33
α Canum Venaticorum .....	2.9	12 52 6.0	2.81	N. 38 46.3	0.32
ε Virginis .....	3.0	12 57 59.7	2.99	N. 11 24.6	0.32
γ Hydræ .....	3.3	13 14 21.1	+ 3.26	S. 22 43.7	- 0.32
ι Centauri .....	2.9	13 15 52.1	3.36	S. 36 16.2	0.32
ζ <sup>1</sup> Ursæ Majoris.....	2.4	13 20 32.8	2.42	N. 55 21.8	0.31
ζ <sup>2</sup> Ursæ Majoris.....	4.0	Δα + 0.9	+ 2.42	Δδ - 0.2	- 0.31
α Virginis ( <i>Spica</i> ).....	1.2	13 20 45.9	3.16	S. 10 43.4	0.31
ζ Virginis .....	3.4	13 30 24.7	3.05	S. 0 10.0	0.31
ε Centauri .....	2.6	13 34 33.3	+ 3.78	S. 53 2.4	- 0.31
η Ursæ Majoris.....	1.9	13 44 14.0	2.37	N. 49 43.9	0.30
μ Centauri .....	3.3	13 44 33.0	3.60	S. 42 3.3	0.30
ζ Centauri .....	3.1	13 50 17.5	+ 3.73	S. 46 52.5	- 0.30
η Boötis .....	2.8	13 50 41.1	2.86	N. 18 49.1	0.30
β Centauri .....	0.9	13 57 53.0	4.21	S. 59 58.1	0.29
π Hydræ .....	3.5	14 1 35.0	+ 3.41	S. 26 16.7	- 0.29
θ Centauri .....	2.3	14 1 44.0	3.52	S. 35 57.4	0.30
α Draconis.....	3.6	14 2 6.9	1.62	N. 64 46.6	0.29
α Boötis ( <i>Arcturus</i> ).....	0.2	14 11 49.8	+ 2.74	N. 19 37.2	- 0.31
ρ Boötis.....	3.8	14 28 12.6	2.59	N. 30 44.4	0.26
γ Boötis.....	3.0	14 28 41.8	2.42	N. 38 40.5	0.26
η Centauri .....	2.7	14 30 10.0	+ 3.80	S. 41 47.4	- 0.27
α <sup>2</sup> Centauri .....	0.3	14 33 53.7	4.06	S. 60 29.3	0.25
α <sup>1</sup> Centauri .....	1.7	Δα - 1.4	4.06	Δδ - 0.2	0.25
α Circini .....	3.4	14 35 42.0	+ 4.81	S. 64 36.6	- 0.26
α Lupi .....	2.9	14 36 20.1	3.97	S. 47 1.7	0.26
ε <sup>2</sup> Boötis.....	2.7	14 41 19.1	2.62	N. 27 25.7	0.25
α Libræ.....	2.9	14 46 13.7	+ 3.31	S. 15 41.6	- 0.25
β Ursæ Minoris.....	2.2	14 50 56.3	- 0.20	N. 74 29.9	0.25
β Lupi .....	2.8	14 53 1.3	+ 3.91	S. 42 47.8	0.24
κ Centauri .....	3.4	14 53 41.7	+ 3.89	S. 41 46.1	- 0.24
β Boötis.....	3.6	14 58 46.9	2.26	N. 40 43.3	0.24
20 Libræ.....	3.4	14 59 9.0	3.51	S. 24 57.1	0.24
ζ Lupi .....	3.5	15 6 14.5	+ 4.29	S. 51 46.8	- 0.23
γ Trianguli Australis.....	3.1	15 11 2.8	- 5.55	S. 68 22.2	0.23
δ Boötis.....	3.5	15 12 7.0	+ 2.42	N. 33 37.7	0.23
β Libræ.....	2.7	15 12 29.1	+ 3.23	S. 9 4.4	- 0.22
γ Ursæ Minoris.....	3.1	15 20 51.2	- 0.11	N. 72 8.0	0.21
ι Draconis.....	3.5	15 23 3.7	+ 1.33	N. 59 15.6	0.21
γ Lupi .....	3.0	15 29 32.2	+ 3.99	S. 40 53.1	- 0.20
α Coronæ.....	2.3	15 31 7.9	2.54	N. 26 59.8	0.20
α Serpentis .....	2.8	15 40 7.7	+ 2.95	N. 6 41.3	- 0.19

d  
JANUARY 1'19

Star's Name.	Mag.	Right Ascension.	Annual Variation.	Declination.	Annual Variation.
		h m s	s	° /	'
μ Serpentis .....	3.6	15 45 14.1	+ 3.13	S. 3 10.4	- 0.19
ε Serpentis .....	3.8	15 46 37.6	2.99	N. 4 43.8	0.18
β Trianguli Australis .....	3.0	15 47 43.7	5.26	S. 63 10.4	0.19
γ Serpentis .....	3.9	15 52 34.3	+ 2.77	N. 15 56.1	- 0.20
π Scorpium .....	3.0	15 53 46.0	3.62	S. 25 52.4	0.18
δ Scorpium .....	2.5	15 55 21.8	3.54	S. 22 23.0	0.17
β <sup>1</sup> Scorpium .....	2.9	16 0 33.0	+ 3.48	S. 19 34.6	- 0.17
δ Ophiuchi .....	3.0	16 9 56.5	3.14	S. 3 28.7	0.16
ε Ophiuchi .....	3.3	16 13 52.5	3.17	S. 4 29.3	0.15
σ Scorpium .....	3.1	16 16 4.8	+ 3.64	S. 25 23.5	- 0.15
γ Herculis .....	3.8	16 18 12.8	2.65	N. 19 21.0	0.14
η Draconis .....	2.9	16 22 51.1	0.81	N. 61 42.2	0.14
α Scorpium ( <i>Antares</i> ) .....	1.2	16 24 15.2	+ 3.67	S. 26 14.8	- 0.14
β Herculis .....	2.8	16 26 36.5	2.58	N. 21 40.3	0.13
λ Ophiuchi .....	3.9	16 26 40.5	3.02	N. 2 10.0	0.13
τ Scorpium .....	2.9	16 30 39.0	+ 3.73	S. 28 2.6	- 0.13
ζ Ophiuchi .....	2.7	16 32 31.9	3.30	S. 10 23.9	0.12
ζ Herculis .....	3.0	16 38 7.2	2.26	N. 31 45.3	0.11
α Trianguli Australis .....	1.9	16 39 45.4	+ 6.32	S. 68 52.5	- 0.12
ε Scorpium .....	2.4	16 44 43.1	3.88	S. 34 8.5	0.11
ζ Aræ .....	3.1	16 51 39.5	4.96	S. 55 51.5	0.10
κ Ophiuchi .....	3.4	16 53 41.5	+ 2.84	N. 9 30.3	- 0.10
ε Herculis .....	3.9	16 57 4.5	2.29	N. 31 3.0	0.09
ν <sup>1</sup> Ophiuchi .....	2.6	17 5 33.5	3.44	S. 15 37.3	0.08
ζ Draconis.....	3.2	17 8 32.5	+ 0.17	N. 65 49.1	- 0.07
α <sup>1</sup> Herculis .....	var. 3 1-3 9	17 10 49.0	2.73	N. 14 29.1	0.07
δ Herculis .....	3.2	17 11 34.8	2.46	N. 24 56.2	0.07
π Herculis .....	3.4	17 12 7.2	+ 2.09	N. 36 54.2	- 0.07
θ Ophiuchi .....	3.4	17 16 50.9	3.68	S. 24 55.0	0.06
β Aræ .....	2.8	17 18 18.8	4.98	S. 55 27.1	0.06
ν Scorpium .....	2.8	17 25 2.9	+ 4.07	S. 37 13.8	- 0.05
α Aræ .....	3.0	17 25 20.7	4.63	S. 49 48.7	0.05
λ Scorpium .....	1.7	17 27 54.2	4.07	S. 37 2.6	0.05
β Draconis.....	3.0	17 28 32.0	+ 1.35	N. 52 21.8	- 0.05
α Ophiuchi .....	2.1	17 31 2.1	2.78	N. 12 37.2	0.05
θ Scorpium .....	2.0	17 31 16.8	4.31	S. 42 56.7	0.04
κ Scorpium .....	2.5	17 36 40.6	+ 4.15	S. 38 59.3	- 0.03
ν Pavonis .....	3.6	17 37 29.0	5.88	S. 64 41.1	0.03
β Ophiuchi .....	2.9	17 39 19.4	2.96	N. 4 36.1	0.03
ι <sup>1</sup> Scorpium .....	3.1	17 41 42.6	+ 4.19	S. 40 5.7	- 0.03
μ Herculis .....	3.5	17 43 10.2	2.35	N. 27 46.1	0.04
ν Ophiuchi .....	3.5	17 54 24.1	+ 3.30	S. 9 45.9	- 0.01



JANUARY 1919 <sup>d</sup>					
Star's Name.	Mag.	Right Ascension.	Annual Variation.	Declination.	Annual Variation.
		h m s	s	° /	'
γ Draconis.....	2.4	17 54 39.3	+ 1.39	N. 51 29.9	- 0.01
γ <sup>2</sup> Sagittarii .....	3.1	18 0 24.6	3.85	S. 30 25.6	0.00
72 Ophiuchi .....	3.7	18 3 22.0	2.84	N. 9 33.1	+ 0.01
μ Sagittarii .....	4.0	18 8 44.4	+ 3.59	S. 21 4.9	+ 0.01
η Sagittarii .....	3.2	18 11 56.6	4.06	S. 36 47.3	0.01
δ Sagittarii .....	2.8	18 15 37.0	3.84	S. 29 51.9	0.02
η Serpentis .....	3.4	18 16 57.7	+ 3.10	S. 2 55.3	+ 0.01
ε Sagittarii .....	2.0	18 18 35.8	3.98	S. 34 25.5	0.03
α Telescopii .....	3.8	18 20 44.7	4.45	S. 46 1.0	0.03
λ Sagittarii .....	2.9	18 22 47.2	+ 3.70	S. 25 28.2	+ 0.03
α Lyrae ( <i>Vega</i> ).....	0.1	18 34 5.7	2.03	N. 38 42.3	0.05
φ Sagittarii .....	3.3	18 40 24.5	3.75	S. 27 4.7	0.06
β <sup>1</sup> Lyrae ..... var.	3.4-4.1	18 46 58.7	+ 2.21	N. 33 15.9	+ 0.07
σ Sagittarii .....	2.1	18 50 3.4	3.72	S. 26 24.1	0.07
ξ <sup>2</sup> Sagittarii .....	3.6	18 52 43.1	3.58	S. 21 13.1	0.08
γ Lyrae .....	3.3	18 55 48.1	+ 2.24	N. 32 34.4	+ 0.08
ζ Sagittarii .....	2.7	18 57 16.1	3.82	S. 30 0.1	0.08
ζ Aquilae .....	3.0	19 1 32.9	2.76	N. 13 44.3	0.09
τ Sagittarii .....	3.4	19 1 41.8	+ 3.75	S. 27 47.7	+ 0.08
λ Aquilae .....	3.6	19 1 47.5	3.18	S. 5 0.6	0.09
π Sagittarii .....	3.0	19 4 46.1	3.57	S. 21 9.5	0.09
δ Draconis.....	3.2	19 12 32.4	+ 0.02	N. 67 30.8	+ 0.11
δ Aquilae .....	3.4	19 21 15.8	3.02	N. 2 56.8	0.12
β Cygni.....	3.2	19 27 20.0	2.42	N. 27 46.9	0.12
γ Aquilae .....	2.8	19 42 16.0	+ 2.85	N. 10 24.5	+ 0.14
δ Cygni.....	3.0	19 42 21.0	1.88	N. 44 55.5	0.15
α Aquilae ( <i>Alair</i> ).....	0.9	19 46 41.1	2.93	N. 8 38.7	0.16
β Aquilae .....	3.9	19 51 11.2	+ 2.95	N. 6 11.8	+ 0.15
δ Pavonis .....	3.6	20 0 29.6	5.91	S. 66 23.8	0.15
θ Aquilae .....	3.4	20 6 58.3	3.10	S. 1 4.3	0.18
α <sup>2</sup> Capricorni .....	3.8	20 13 23.7	+ 3.33	S. 12 48.4	+ 0.18
β Capricorni .....	3.3	20 16 17.6	3.37	S. 15 2.8	0.19
α Pavonis .....	2.1	20 19 0.6	4.76	S. 57 0.3	0.19
γ Cygni.....	2.3	20 19 12.8	+ 2.15	N. 39 59.2	+ 0.19
ε Delphini .....	4.0	20 29 12.0	2.87	N. 11 1.0	0.20
α Indi .....	3.2	20 31 39.7	4.23	S. 47 35.1	0.21
α Delphini .....	3.9	20 35 44.2	+ 2.79	N. 15 36.9	+ 0.21
β Pavonis .....	3.6	20 37 24.2	5.44	S. 66 30.4	0.21
α Cygni ( <i>Deneb</i> ).....	1.3	20 38 34.1	2.04	N. 44 58.8	0.21
ε Cygni.....	2.6	20 42 48.7	+ 2.43	N. 33 39.3	+ 0.22
ε Aquarii .....	3.8	20 43 7.8	3.25	S. 9 48.2	0.22
ζ Cygni.....	3.4	21 9 21.6	+ 2.55	N. 29 52.9	+ 0.24

JANUARY 1919 <sup>d</sup>					
Star's Name.	Mag.	Right Ascension.	Annual Variation.	Declination.	Annual Variation.
		h m s	s	° /	'
α Cephei .....	2.6	21 16 34.6	+ 1.43	N. 62 13.8	+ 0.25
ζ Capricorni .....	3.9	21 21 52.5	3.43	S. 22 46.5	0.26
β Aquarii .....	3.1	21 27 8.3	3.16	S. 5 56.5	0.26
β <sup>2</sup> Cephei .....	3.3	21 27 34.9	+ 0.79	N. 70 11.5	+ 0.26
ε Pegasi .....	2.5	21 40 3.6	2.95	N. 9 29.4	0.27
δ Capricorni .....	3.0	21 42 24.4	3.31	S. 16 30.5	0.27
γ Gruis .....	3.2	21 48 50.8	+ 3.64	S. 37 45.6	+ 0.28
α Aquarii .....	3.2	22 1 28.2	3.08	S. 0 43.7	0.29
α Gruis .....	2.2	22 2 56.7	3.79	S. 47 22.1	0.29
ι Pegasi.....	4.0	22 3 6.0	+ 2.79	N. 24 56.1	+ 0.29
ζ Cephei .....	3.6	22 7 56.3	2.08	N. 57 47.2	0.30
α Toucani .....	2.9	22 12 45.4	4.13	S. 60 40.7	0.30
γ Aquarii .....	4.0	22 17 19.1	+ 3.10	S. 1 48.7	+ 0.30
β Pegasi.....	3.6	22 37 16.3	2.99	N. 10 23.5	0.31
β Gruis .....	2.2	22 37 39.4	3.60	S. 47 19.5	0.31
η Pegasi.....	3.1	22 39 3.8	+ 2.81	N. 29 46.9	+ 0.31
ε Gruis .....	3.7	22 43 29.2	3.64	S. 51 45.5	0.31
μ Pegasi.....	3.7	22 45 56.9	2.89	N. 24 9.5	0.32
λ Aquarii .....	3.8	22 48 14.0	+ 3.13	S. 8 1.6	+ 0.32
δ Aquarii .....	3.5	22 50 11.6	3.19	S. 16 16.1	0.32
α Piscis Australis ( <i>Fomalhaut</i> )..	1.3	22 53 0.7	3.32	S. 30 4.1	0.32
β Pegasi..... var.	2.2-2.7	22 59 42.0	+ 2.91	N. 27 37.6	+ 0.32
α Pegasi ( <i>Markab</i> ).....	2.6	23 0 34.5	2.99	N. 14 45.2	0.32
ε <sup>2</sup> Aquarii .....	3.8	23 4 58.2	3.20	S. 21 37.7	0.33
γ Piscium .....	3.9	23 12 48.6	+ 3.11	N. 2 49.4	+ 0.33
γ Cephei .....	3.4	23 35 53.4	2.44	N. 77 9.8	0.33
ω Piscium .....	4.0	23 54 59.8	+ 3.08	N. 6 23.9	+ 0.33



AT UPPER TRANSIT AT GREENWICH.

$\alpha$  Ursæ Minoris Mag. 2.1

Day.	R.A.		Dec. N.		R.A.		Dec. N.		R.A.		Dec. N.		R.A.		Dec. N.		R.A.		Dec. N.																					
	h	m	°	'	h	m	°	'	h	m	°	'	h	m	°	'	h	m	°	'																				
	1 29		88 51		1 28		88 51		1 28		88 51		1 28		88 51		1 29		88 51																					
1	51.0	52	79.0	53	52.7	49	38.6	40	44.5	31	7.5	24	49.0	29	14.6	23	42.6	53	70.4	52	47.3	47	38.8	37	50.0	28	16.8	22												
3	49.3	52	76.7	53	51.0	48	38.4	39	45.8	30	9.4	24	46.4	46	38.8	37	50.0	28	16.8	22	40.5	53	68.7	52	46.4	46	38.8	37	50.0	28										
5	47.3	52	74.4	53	49.4	48	38.5	39	47.0	30	11.1	23	45.4	46	38.7	36	51.3	27	19.2	22	38.5	53	67.0	52	45.4	46	38.7	36	51.3	27										
7	45.0	53	72.2	52	48.3	47	38.7	38	48.0	29	12.8	23	44.3	45	38.9	35	52.9	27	21.6	22	36.7	53	65.2	51	44.3	45	38.9	35	52.9	27										
9																																								
11																																								
13																																								
15																																								
17																																								
19																																								
21																																								
23																																								
25																																								
27																																								
29																																								
31																																								
	1 29		88 51		1 30		88 51		1 30		88 51		1 31		88 51		1 30		88 51		1 30		88 51		1 30		88 51		1 30		88 51		1 30		88 51		1 30		88 51	
1	39.0	22	13.4	24	43.2	32	2.2	42	66.8	54	55.0	4	49.9	6	49.9	6	49.9	6	49.9	6	49.9	6	49.9	6	49.9	6	49.9	6	49.9	6	49.9	6	49.9	6	49.9	6	49.9	6	49.9	6
3	41.1	22	15.5	25	45.1	32	3.1	43	66.2	55	53.5	5	50.4	7	50.4	7	50.4	7	50.4	7	50.4	7	50.4	7	50.4	7	50.4	7	50.4	7	50.4	7	50.4	7	50.4	7	50.4	7	50.4	7
5	43.1	22	17.8	25	46.9	33	3.7	44	65.6	55	52.3	5	52.8	7	52.8	7	52.8	7	52.8	7	52.8	7	52.8	7	52.8	7	52.8	7	52.8	7	52.8	7	52.8	7	52.8	7	52.8	7	52.8	7
7	45.3	22	20.2	25	48.4	34	4.0	44	65.2	56	51.2	6	55.0	6	55.0	6	55.0	6	55.0	6	55.0	6	55.0	6	55.0	6	55.0	6	55.0	6	55.0	6	55.0	6	55.0	6	55.0	6	55.0	6
9																																								
11																																								
13																																								
15																																								
17																																								
19																																								
21																																								
23																																								
25																																								
27																																								
29																																								
31																																								

AT UPPER TRANSIT AT GREENWICH.

Date.	$\alpha$ Andromedæ. 2.2		$\beta$ Cassiopeiæ. 2.4		$\gamma$ Pegasi. (Algenib) 2.9		$\beta$ Hydri. 2.9		$\alpha$ Phœnicis. 2.4	
	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. S.
	h m	°	h m	°	h m	°	h m	°	h m	°
	0 4	28	0 4	58	0 8	14	0 21	77	0 22	42
Jan. 1	s /	/	s /	/	s /	/	s /	/	s /	/
Mar. 1	3.0	37.8	41.1	41.6	55.1	43.1	23.4	43.9	9.1	45.9
Apr. 30	2.4	37.7	39.7	41.4	54.6	43.1	19.2	43.6	8.2	45.8
June 29	3.0	37.6	40.5	41.2	55.2	43.0	19.8	43.3	8.7	45.5
Aug. 28	4.9	37.7	43.4	41.2	56.9	43.2	25.1	43.0	10.6	45.2
Oct. 27	6.6	38.0	45.9	41.4	58.5	43.4	30.7	43.1	12.6	45.2
Dec. 26	7.0	38.2	46.3	41.8	58.9	43.5	31.3	43.4	13.1	45.4
	6.4	38.2	44.9	41.9	58.5	43.5	26.6	43.5	12.2	45.5
Date.	$\alpha$ Cassiopeiæ. 2.2-2.8		$\beta$ Ceti. 2.2		$\gamma$ Cassiopeiæ. 2.3		$\beta$ Andromedæ. 2.4		$\delta$ Cassiopeiæ. 2.8	
	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. N.
	h m	°	h m	°	h m	°	h m	°	h m	°
	0 35	56	0 39	18	0 51	60	1 5	35	1 20	59
Jan. 1	s /	/	s /	/	s /	/	s /	/	s /	/
Mar. 1	44.3	5.0	23.4	26.9	38.2	16.1	2.3	10.8	19.5	48.3
Apr. 30	42.9	4.8	22.8	26.9	36.5	16.0	1.4	10.7	17.7	48.2
June 29	43.4	4.6	23.1	26.7	36.8	15.8	1.7	10.6	17.8	48.0
Aug. 28	46.0	4.6	24.8	26.5	39.6	15.7	3.6	10.6	20.4	47.9
Oct. 27	48.5	4.8	26.5	26.3	42.5	15.9	5.6	10.8	23.5	48.1
Dec. 26	49.3	5.2	27.1	26.4	43.5	16.3	6.4	11.1	24.8	48.4
	48.3	5.3	26.6	26.5	42.5	16.4	6.0	11.1	24.1	48.6
Date.	$\alpha$ Eridani. (Achernar) 3.6		$\beta$ Arietis. 2.7		$\alpha$ Hydri. 3.0		$\gamma$ Andromedæ. 2.3		$\alpha$ Arietis. 2.2	
	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. N.
	h m	°	h m	°	h m	°	h m	°	h m	°
	1 34	57	1 50	20	1 56	61	1 58	41	2 2	23
Jan. 1	s /	/	s /	/	s /	/	s /	/	s /	/
Mar. 1	37.1	40.0	1.0	24.1	9.5	58.9	45.5	55.9	27.4	4.2
Apr. 30	35.2	39.9	0.2	24.0	7.2	58.8	44.5	55.9	26.6	4.1
June 29	34.8	39.6	0.2	24.0	6.3	58.5	44.3	55.7	26.5	4.0
Aug. 28	36.7	39.2	1.7	24.0	8.1	58.2	46.1	55.7	28.0	4.1
Oct. 27	39.4	39.2								



AT UPPER TRANSIT AT GREENWICH.

Date.	ζ Persei. 2·9		ε Persei. 3·0		α Tauri. (Aldebaran) 1·1		ι Aurigæ. 2·9		β Eridani. 2·9	
	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	3 48	31	3 52	39	4 31	16	4 51	33	5 3	5
	s	/	s	/	s	/	s	/	s	/
Jan. 1	53·0	38·3	15·0	46·3	8·0	20·6	33·7	2·2	45·2	11·6
Mar. 1	52·2	38·3	14·1	46·4	7·4	20·6	33·1	2·3	44·7	11·7
Apr. 30	51·5	38·2	13·3	46·2	6·7	20·6	32·2	2·2	43·8	11·6
June 29	52·5	38·2	14·4	46·2	7·3	20·6	32·8	2·1	44·2	11·5
Aug. 28	54·6	38·3	16·6	46·2	9·1	20·7	34·7	2·1	45·7	11·4
Oct. 27	56·3	38·4	18·6	46·3	10·8	20·7	36·7	2·2	47·4	11·4
Dec. 26	57·0	38·5	19·3	46·5	11·7	20·7	37·8	2·3	48·3	11·5

Date.	α Aurigæ. (Capella) 0·2		β Orionis. (Rigel) 0·3		γ Orionis. (Bellatrix) 1·7		β Tauri. 1·8		β Leporis. 3·0	
	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	5 10	45	5 10	8	5 20	6	5 20	28	5 24	20
	s	/	s	/	s	/	s	/	s	/
Jan. 1	31·8	55·0	32·1	17·8	39·6	16·6	61·3	32·4	40·9	49·5
Mar. 1	31·1	55·1	31·5	17·9	39·2	16·5	60·8	32·4	40·3	49·6
Apr. 30	29·9	55·0	30·7	17·9	38·4	16·5	59·9	32·4	39·2	49·6
June 29	30·4	54·9	31·0	17·7	38·7	16·6	60·3	32·3	39·4	49·4
Aug. 28	32·6	54·8	32·5	17·6	40·2	16·7	62·0	32·3	40·8	49·2
Oct. 27	35·0	54·9	34·1	17·6	41·9	16·7	64·0	32·4	42·6	49·2
Dec. 26	36·5	55·0	35·1	17·8	43·0	16·6	65·3	32·4	43·6	49·5

Date.	δ Orionis. 2·5		α Leporis. 2·7		ι Orionis. 2·9		ε Orionis. 1·7		ζ Tauri. 3·0	
	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.
	h m	o	h m	o	h m	o	h m	o	h m	o
	5 27	0	5 29	17	5 31	5	5 31	1	5 32	21
	s	/	s	/	s	/	s	/	s	/
Jan. 1	45·0	21·5	3·6	52·9	21·5	57·8	59·1	15·2	39·8	5·6
Mar. 1	44·5	21·6	3·0	53·0	21·1	57·9	58·7	15·3	39·4	5·6
Apr. 30	43·7	21·6	2·0	53·0	20·2	57·9	57·8	15·3	38·5	5·6
June 29	44·0	21·5	2·2	52·8	20·4	57·7	58·1	15·2	38·8	5·6
Aug. 28	45·4	21·4	3·6	52·6	21·8	57·6	59·5	15·0	40·4	5·7
Oct. 27	47·1	21·4	5·3	52·6	23·5	57·6	61·2	15·1	42·3	5·7
Dec. 26	48·2	21·5	6·4	52·8	24·6	57·8	62·3	15·2	43·5	5·6

Date.	ζ Orionis. (Ist Star) 2·0		α Columbæ. 2·7		κ Orionis. 2·2		α Orionis. (Betelgeuse) 1·0-1·4		β Aurigæ. 2·1	
	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. N.
	h m	o	h m	o	h m	o	h m	o	h m	o
	5 36	1	5 36	34	5 43	9	5 50	7	5 53	44
	s	/	s	/	s	/	s	/	s	/
Jan. 1	33·3	59·1	38·6	7·1	48·4	41·9	39·6	23·6	25·1	56·5
Mar. 1	32·9	59·2	37·8	7·3	48·0	42·0	39·3	23·6	24·6	56·6
Apr. 30	32·0	59·2	36·5	7·2	47·1	42·0	38·4	23·6	23·3	56·6
June 29	32·2	59·1	36·5	7·0	47·2	41·8	38·6	23·6	23·6	56·5
Aug. 28	33·7	58·9	37·9	6·7	48·6	41·7	40·0	23·7	25·5	56·4
Oct. 27	35·4	58·9	39·8	6·8	50·3	41·7	41·8	23·7	28·0	56·4
Dec. 26	36·5	59·1	40·8	7·0	51·4	41·9	43·0	23·6	29·7	56·5

AT UPPER TRANSIT AT GREENWICH.

Date.	θ Aurigæ. 2·7		β Canis Majoris. 2·0		α Argûs. (Canopus) -0·9		γ Geminorum. 1·9		α Canis Majoris. (Sirius) -1·6	
	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	5 54	37	6 19	17	6 22	52	6 32	16	6 41	16
	s	/	s	/	s	/	s	/	s	/
Jan. 1	2·4	12·6	2·1	54·8	7·7	38·9	54·0	28·4	28·8	36·0
Mar. 1	2·0	12·7	1·8	54·9	6·7	39·2	53·8	28·3	28·5	36·2
Apr. 30	0·9	12·6	0·7	54·9	4·6	39·2	52·9	28·4	27·5	36·2
June 29	1·1	12·5	0·7	54·7	3·9	38·9	52·9	28·4	27·3	36·0
Aug. 28	2·8	12·5	1·8	54·6	5·3	38·6	54·2	28·4	28·4	35·8
Oct. 27	5·0	12·5	3·6	54·6	7·6	38·6	56·0	28·4	30·1	35·9
Dec. 26	6·6	12·5	4·9	54·8	9·1	38·9	57·5	28·3	31·5	36·1

Date.	τ Argûs. 2·8		ε Canis Majoris. 1·6		δ Canis Majoris. 2·0		π Argûs. 2·7		η Canis Majoris. 2·4	
	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	6 47	51	6 55	28	7 4	26	7 14	36	7 20	29
	s	/	s	/	s	/	s	/	s	/
Jan. 1	53·5	30·8	21·6	51·4	60·6	15·5	12·7	56·7	48·5	8·2
Mar. 1	52·8	31·1	21·3	51·6	60·4	15·7	12·4	57·0	48·4	8·5
Apr. 30	50·9	31·1	20·1	51·6	59·3	15·7	11·0	57·0	47·2	8·5
June 29	50·1	30·9	19·7	51·4	58·9	15·6	10·5	56·8	46·7	8·4
Aug. 28	51·2	30·6	20·7	51·2	59·9	15·4	11·3	56·6	47·6	8·1
Oct. 27	53·5	30·6	22·5	51·2	61·6	15·4	13·2	56·5	49·3	8·1
Dec. 26	55·1	30·9	24·0	51·5	63·1	15·6	14·9	56·8	50·9	8·4

Date.	α Geminorum. (Castor) 2·0		α Canis Minoris. (Procyon) 0·5		β Geminorum. (Pollux) 1·2		ζ Argûs. 2·3		15 Argûs. 2·9	
	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	7 29	32	7 34	5	7 40	28	8 0	39	8 3	24
	s	/	s	/	s	/	s	/	s	/
Jan. 1	17·1	4·4	56·5	26·5	13·2	13·8	39·9	45·9	60·0	3·6
Mar. 1	17·3	4·5	56·6	26·4	13·5	13·8	39·9	46·2	60·1	3·9
Apr. 30	16·3	4·5	55·7	26·4	12·5	13·9	38·6	46·3	59·1	3·9
June 29	16·0	4·5	55·5	26·4	12·2	13·8	37·8	46·1	58·6	3·8
Aug. 28	17·1	4·4	56·4	26·5	13·2	13·8	38·4	45·9	59·2	3·6
Oct. 27	19·1	4·3	58·0	26·5	15·1	13·7	40·2	45·8	60·8	3·6
Dec. 26	21·0	4·3	59·7	26·3	17·0	13·6	42·1	46·0	62·6	3·8

Date.	γ Argûs. 2·2		ε Argûs. 1·7		δ Argûs. 2·0		λ Argûs. 2·2		β Argûs. 1·8	
	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	8 6	47	8 20	59	8 42	54	9 4	43	9 12	69
	s	/	s	/	s	/	s	/	s	/
Jan. 1	58·7	5·2	49·9	14·2	25·2	23·9	56·1	5·5	19·5	22·1
Mar. 1	58·7	5·5	49·8	14·5	25·4	24·2	56·6	5·8	19·9	22·5
Apr. 30	57·2	5·6	47·6	14·7	23·7	24·4	55·5	6·0	17·2	22·7
June 29	56·1	5·5	45·9	14·6	22·2	24·3	54·4	5·9	14·1	22·6
Aug. 28	56·6	5·2	46·2	14·3	22·4	24·0	54·5	5·6	13·6	22·3
Oct. 27	58·6	5·1	48·6	14·1	24·4	23·9	56·2	5·5	16·4	22·2
Dec. 26	60·7	5·4	51·2	14·4	26·9	24·1	58·4	5·7	20·3	22·3



AT UPPER TRANSIT AT GREENWICH.

Date.	ι Argûs. 2·3		κ Argûs. 2·6		α Hydræ. 2·2		N Velorum. 3·0		α Leonis. (Regulus) 1·3	
	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.
	h m	o	h m	o	h m	o	h m	o	h m	o
	9 14	58	9 19	54	9 23	8	9 28	56	10 3	12
	s	/	s	/	s	/	s	/	s	/
Jan. 1	52·4	55·2	32·5	38·9	29·4	17·6	42·0	39·6	55·8	22·6
Mar. 1	52·9	55·5	33·2	39·3	30·1	17·8	42·7	40·0	56·8	22·5
Apr. 30	51·2	55·8	31·7	39·5	29·5	17·9	41·2	40·2	56·4	22·5
June 29	49·4	55·7	30·1	39·4	28·9	17·8	39·5	40·2	55·8	22·6
Aug. 28	49·2	55·4	30·0	39·2	29·2	17·7	39·3	39·9	55·9	22·6
Oct. 27	51·2	55·2	31·9	39·0	30·5	17·7	41·1	39·7	57·0	22·5
Dec. 26	54·1	55·4	34·5	39·2	3	17·9	43·9	39·9	59·0	22·3

Date.	γ Leonis. 2·6		θ Argûs. 3·0		η Argûs. >1·74		μ Argûs. 2·8		β Ursæ Majoris. 2·4	
	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.
	h m	o	h m	o	h m	o	h m	o	h m	o
	10 15	20	10 39	63	10 41	59	10 43	48	10 56	56
	s	/	s	/	s	/	s	/	s	/
Jan. 1	22·5	15·9	58·8	57·0	49·2	14·4	10·4	58·4	49·5	49·6
Mar. 1	23·6	15·8	60·5	57·4	50·8	14·7	11·8	58·8	51·5	49·8
Apr. 30	23·2	15·9	59·4	57·7	49·9	15·0	11·2	59·0	50·8	50·0
June 29	22·5	15·9	57·2	57·7	48·2	15·0	10·0	59·0	49·3	50·0
Aug. 28	22·6	15·9	56·1	57·5	47·2	14·8	9·4	58·8	48·6	49·8
Oct. 27	23·7	15·7	57·6	57·3	48·6	14·6	10·5	58·6	49·8	49·5
Dec. 26	25·7	15·5	51·1	57·4	5	14·7	13·1	58·7	52·7	49·3

Date.	α Ursæ Majoris. (Dubhe) 2·0		δ Leonis. 2·6		β Leonis. (Denebola) 2·2		γ Ursæ Majoris. 2·5		ε Centauri. 2·9	
	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	10 58	62	11 9	20	11 44	15	11 49	54	12 4	50
	s	/	s	/	s	/	s	/	s	/
Jan. 1	36·2	11·9	40·1	58·8	47·8	2·3	26·9	9·3	0·6	15·1
Mar. 1	38·5	12·1	41·5	58·8	49·3	2·2	29·2	9·4	2·7	15·4
Apr. 30	37·7	12·3	41·4	58·9	49·4	2·3	29·1	9·6	2·9	15·7
June 29	35·7	12·3	40·8	58·9	48·8	2·3	27·7	9·7	1·8	15·8
Aug. 28	34·9	12·1	40·5	58·9	48·5	2·3	26·7	9·6	0·8	15·6
Oct. 27	36·2	11·8	41·3	58·7	49·0	2·2	27·3	9·2	1·3	15·4
Dec. 26	39·5	11·6	43·2	58·5	50·8	2·0	29·7	9·0	3·8	15·5

Date.	γ Corvi. 2·8		α Crucis (mean). 1·1		γ Crucis. 1·6		β Corvi. 2·8		α Muscæ. 2·9	
	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	12 11	17	12 21	62	12 26	56	12 29	22	12 32	68
	s	/	s	/	s	/	s	/	s	/
Jan. 1	29·9	4·5	55·6	37·8	30·2	38·4	59·0	55·9	9·8	40·2
Mar. 1	31·5	4·8	58·4	38·1	32·7	38·7	60·7	56·2	13·3	40·4
Apr. 30	31·8	4·9	58·8	38·5	33·1	39·0	61·1	56·3	13·9	40·8
June 29	31·3	4·9	57·3	38·6	31·9	39·1	60·7	56·3	11·9	41·0
Aug. 28	30·8	4·8	55·6	38·5	30·6	39·0	60·1	56·2	9·5	40·8
Oct. 27	31·2	4·7	56·0	38·2	30·9	38·8	60·4	56·2	9·8	40·6
Dec. 26	33·0	4·9	59·1	38·2	33·6	38·7	62·2	56·3	13·5	40·5

AT UPPER TRANSIT AT GREENWICH.

Date.	γ Centauri. 2·4		γ Virginis (mean). 3·0		β Crucis. 1·5		ε Ursæ Majoris. 1·7		α Canum Venat. 2·9	
	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. N.
	h m	o	h m	o	h m	o	h m	o	h m	o
	12 36	48	12 37	0	12 42	59	12 50	56	12 52	38
	s	/	s	/	s	/	s	/	s	/
Jan. 1	53·1	29·8	25·0	59·4	48·4	13·6	21·3	24·5	7·0	46·0
Mar. 1	55·3	30·0	26·7	59·6	51·2	13·9	24·0	24·5	9·0	45·9
Apr. 30	55·8	30·3	27·1	59·6	51·8	14·2	24·4	24·8	9·4	46·1
June 29	55·0	30·4	26·7	59·6	50·7	14·3	23·1	25·0	8·7	46·3
Aug. 28	53·9	30·3	26·2	59·5	49·1	14·2	21·6	24·8	7·8	46·2
Oct. 27	54·2	30·1	26·4	59·6	49·3	14·0	21·4	24·5	7·8	45·9
Dec. 26	56·5	30·1	28·1	59·8	52·0	13·9	23·6	24·2	9·6	45·7

Date.	ε Virginis. 3·0		ι Centauri. 2·9		ζ Ursæ Majoris. 2·4		α Virginis. (Spica) 1·2		ε Centauri. 2·6	
	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	12 58	11	13 15	36	13 20	55	13 20	10	13 34	53
	s	/	s	/	s	/	s	/	s	/
Jan. 1	0·5	24·4	52·5	16·1	33·4	21·4	46·4	43·5	33·3	2·3
Mar. 1	2·2	24·3	54·6	16·3	36·1	21·4	48·2	43·7	36·1	2·5
Apr. 30	2·7	24·3	55·4	16·5	36·8	21·6	48·9	43·7	37·2	2·7
June 29	2·3	24·4	55·0	16·6	35·6	21·8	48·7	43·7	36·7	2·9
Aug. 28	1·7	24·5	54·1	16·5	34·0	21·8	48·1	43·7	35·3	2·8
Oct. 27	1·9	24·3	54·1	16·4	33·6	21·5	48·1	43·6	35·1	2·6
Dec. 26	3·4	24·1	55·9	16·4	35·5	21·1	49·6	43·8	37·2	2·6

Date.	η Ursæ 1·9		η Boötis. 2·8		β Centauri. 0·9		θ Centauri. 2·3		α Boötis. (Arcturus) 0·2	
	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.
	h m	o	h m	o	h m	o	h m	o	h m	o
	13 44	49	13 50	18	13 57	59	14 1	35	14 11	19
	s	/	s	/	s	/	s	/	s	/
Jan. 1	14·4	43·5	41·5	48·9	52·6	58·0	44·1	57·4	50·0	36·9
Mar. 1	16·8	43·5	43·4	48·7	55·9	58·1	46·3	57·6	51·9	36·8
Apr. 30	17·7	43·7	44·2	48·8	57·5	58·4	47·4	57·8	52·9	36·8
June 29	16·8	43·9	44·0	48·9	57·0	58·6	47·3	57·9	52·7	37·0
Aug. 28	15·4	43·9	43·2	49·0	55·3	58·6	46·4	57·8	51·9	37·0
Oct. 27	14·9	43·6	43·0	48·8	54·7	58·4	46·1	57·7	51·5	36·9
Dec. 26	16·4	43·3	44·3	48·6	57·0	58·2	47·7	57·7	52·7	36·6

Date.	γ Boötis. 3·0		η Centauri. 2·7		α² Centa ri. 0·3		α Lupi. 2·9		ε² Boötis. 2·7	
	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.
	h m	o	h m	o	h m	o	h m	o	h m	o
	14 28	38	14 30	41	14 33	60	14 36	47	14 41	27
	s	/	s	/	s	/	s	/	s	/
Jan. 1	41·8	40·2	9·9	47·3	53·1	29·1	19·8	1·6	19·2	25·4
Mar. 1	44·0	40·1	12·3	47·5	56·5	29·3	22·5	1·8	21·1	25·2
Apr. 30	45·1	40·2	13·7	47·7	58·3	29·5	24·0	2·0	22·3	25·4
June 29	44·8	40·5	13·7	47·8	58·0	29·8	24·1	2·2	22·2	25·6
Aug. 28	43·6	40·5	12·8	47·8	56·2	29·7	23·0	2·1	21·3	25·6
Oct. 27	43·0	40·3	12·3	47·6	55·3	29·5	22·3	2·0	20·7	25·5
Dec. 26	44·1	40·0	13·8	47·6	57·3	29·4	23·9	1·9	21·7	25·2



AT UPPER TRANSIT AT GREENWICH.

Date.	$\alpha$ Libræ. 2·9		$\beta$ Ursæ Minoris. 2·2		$\beta$ Lupi. 2·8		$\beta$ Libræ. 2·7		$\gamma$ Lupi. 3·0	
	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	14 46	15	14 50	74	14 53	42	15 12	9	15 29	40
	s /	s /	s /	s /	s /	s /	s /	s /	s /	s /
Jan. 1	13·7	41·7	54·2	29·5	1·1	47·7	29·0	4·5	31·8	53·1
Mar. 1	15·7	41·8	59·2	29·4	3·6	47·9	30·9	4·7	34·3	53·2
Apr. 30	16·9	41·9	61·8	29·7	5·2	48·1	32·2	4·7	36·0	53·3
June 29	17·1	41·9	59·8	30·0	5·4	48·2	32·5	4·7	36·5	53·5
Aug. 28	16·4	41·9	55·2	30·0	4·4	48·2	31·9	4·6	35·6	53·5
Oct. 27	16·0	41·8	51·9	29·7	3·8	48·0	31·3	4·6	34·8	53·4
Dec. 26	17·1	41·9	53·1	29·3	5·1	48·0	32·3	4·7	35·9	53·3

Date.	$\alpha$ Coronæ. 2·3		$\alpha$ Serpentis. 2·8		$\beta$ Triang. Aust. 3·0		$\pi$ Scorpii. 3·0		$\delta$ Scorpii. 2·5	
	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	15 31	26	15 40	6	15 47	63	15 53	25	15 55	22
	s /	s /	s /	s /	s /	s /	s /	s /	s /	s /
Jan. 1	7·6	59·5	7·6	41·2	42·5	10·3	45·7	52·4	21·5	23·1
Mar. 1	9·5	59·4	9·4	41·0	46·3	10·3	47·8	52·5	23·6	23·2
Apr. 30	10·9	59·5	10·8	41·1	49·3	10·5	49·4	52·6	25·2	23·3
June 29	11·1	59·7	11·1	41·2	50·0	10·7	50·0	52·7	25·7	23·3
Aug. 28	10·2	59·8	10·5	41·3	48·3	10·8	49·4	52·7	25·1	23·3
Oct. 27	9·4	59·7	9·8	41·2	46·6	10·7	48·6	52·6	24·4	23·2
Dec. 26	10·1	59·4	10·5	41·0	48·0	10·5	49·4	52·6	25·2	23·2

Date.	$\beta$ Scorpii. 2·9		$\delta$ Ophiuchi. 3·0		$\gamma$ Draconis. 2·9		$\alpha$ Scorpii. (Antares) 1·2		$\beta$ Herculis. 2·8	
	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. N.
	h m	o	h m	o	h m	o	h m	o	h m	o
	16 0	19	16 9	3	16 22	61	16 24	26	16 26	21
	s /	s /	s /	s /	s /	s /	s /	s /	s /	s /
Jan. 1	32·7	34·7	56·3	28·9	49·1	42·0	14·9	14·9	36·0	40·1
Mar. 1	34·7	34·8	58·1	29·0	51·8	41·8	16·9	14·9	37·8	39·9
Apr. 30	36·3	34·8	59·6	29·0	54·3	41·9	18·6	15·0	39·3	40·0
June 29	36·9	34·8	60·1	28·9	54·3	42·2	19·4	15·0	39·8	40·2
Aug. 28	36·3	34·8	59·6	28·9	52·2	42·4	18·9	15·0	39·2	40·3
Oct. 27	35·5	34·8	58·8	28·9	49·8	42·2	18·0	15·0	38·2	40·3
Dec. 26	36·3	34·8	59·4	29·0	49·7	41·9	18·6	15·0	38·6	40·0

Date.	$\tau$ Scorpii. 2·9		$\zeta$ Ophiuchi. 2·7		$\zeta$ Herculis. 3·0		$\alpha$ Triang. Aust. 1·9		$\epsilon$ Scorpii. 2·4	
	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	16 30	28	16 32	10	16 38	31	16 39	68	16 44	34
	s /	s /	s /	s /	s /	s /	s /	s /	s /	s /
Jan. 1	38·6	2·6	31·6	24·0	6·5	45·0	43·5	52·5	42·7	8·5
Mar. 1	40·6	2·7	33·4	24·1	8·3	44·8	47·9	52·4	44·8	8·6
Apr. 30	42·5	2·7	35·0	24·1	9·9	44·9	52·0	52·6	46·7	8·6
June 29	43·3	2·8	35·7	24·0	10·4	45·2	53·6	52·8	47·6	8·7
Aug. 28	42·7	2·8	35·2	24·0	9·6	45·3	51·8	52·9	47·1	8·8
Oct. 27	41·8	2·7	34·4	24·0	8·5	45·3	49·2	52·8	46·1	8·7
Dec. 26	42·4	2·7	34·9	24·1	8·7	45·0	50·0	52·6	46·6	8·6

AT UPPER TRANSIT AT GREENWICH.

Date.	$\eta$ Ophiuchi. 2·6		$\beta$ Aræ. 2·8		$\nu$ Scorpii. 2·8		$\alpha$ Aræ. 3·0		$\lambda$ Scorpii. 1·7	
	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	17 5	15	17 18	55	17 25	37	17 25	49	17 27	37
	s /	s /	s /	s /	s /	s /	s /	s /	s /	s /
Jan. 1	33·1	37·4	17·8	27·1	2·4	13·9	19·9	48·7	53·5	2·7
Mar. 1	34·9	37·5	20·5	27·1	4·4	13·8	22·3	48·6	55·6	2·7
Apr. 30	36·6	37·5	23·5	27·1	6·6	13·9	24·9	48·7	57·7	2·7
June 29	37·6	37·5	25·0	27·3	7·8	13·9	26·4	48·8	59·0	2·8
Aug. 28	37·2	37·4	24·3	27·4	7·4	14·0	25·8	48·9	58·6	2·8
Oct. 27	36·3	37·4	22·6	27·4	6·3	14·0	24·4	48·9	57·5	2·8
Dec. 26	36·6	37·4	22·9	27·2	6·5	13·9	24·7	48·7	57·7	2·7

Date.	$\beta$ Draconis. 3·0		$\alpha$ Ophiuchi. 2·1		$\theta$ Scorpii. 2·0		$\kappa$ Scorpii. 2·5		$\beta$ Ophiuchi. 2·9	
	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.
	h m	o	h m	o	h m	o	h m	o	h m	o
	17 28	52	17 31	12	17 31	42	17 36	38	17 39	4
	s /	s /	s /	s /	s /	s /	s /	s /	s /	s /
Jan. 1	30·3	21·6	1·5	37·1	16·1	56·8	40·0	59·3	18·8	36·0
Mar. 1	32·3	21·3	3·0	36·9	18·3	56·7	42·0	59·3	20·3	35·8
Apr. 30	34·5	21·4	4·7	37·0	20·6	56·8	44·2	59·3	22·0	35·9
June 29	35·3	21·8	5·6	37·1	22·0	56·9	45·6	59·4	23·0	36·0
Aug. 28	34·1	22·0	5·2	37·3	21·6	57·0	45·2	59·5	22·7	36·1
Oct. 27	32·2	21·9	4·3	37·3	20·4	56·9	44·1	59·4	21·8	36·1
Dec. 26	31·7	21·6	4·3	37·1	20·6	56·8	44·2	59·3	21·8	36·0

Date.	$\gamma$ Draconis. 2·4		$\delta$ Sagittarii. 2·8		$\epsilon$ Sagittarii. 2·0		$\lambda$ Sagittarii. 2·9		$\alpha$ Lyræ. (Vega) 0·1	
	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.
	h m	o	h m	o	h m	o	h m	o	h m	o
	17 54	51	18 15	29	18 18	34	18 22	25	18 34	38
	s /	s /	s /	s /	s /	s /	s /	s /	s /	s /
Jan. 1	37·5	29·7	36·5	52·0	35·2	25·6	46·7	28·2	4·4	42·2
Mar. 1	39·3	29·5	38·1	52·0	36·9	25·6	48·3	28·2	5·7	41·9
Apr. 30	41·6	29·6	40·2	51·9	39·1	25·5	50·3	28·2	7·7	42·0
June 29	42·6	29·9	41·6	51·9	40·6	25·6	51·7	28·2	9·0	42·3
Aug. 28	41·6	30·1	41·5	52·0	40·5	25·6	51·6	28·2	8·6	42·5
Oct. 27	39·6	30·1	40·5	52·0	39·4	25·6	50·6	28·2	7·1	42·5
Dec. 26	38·9	29·8	40·4	51·9	39·3	25·5	50·5	28·2	6·5	42·3

Date.	$\sigma$ Sagittarii. 2·1		$\zeta$ Sagittarii. 2·7		$\zeta$ Aquilæ. 3·0		$\pi$ Sagittarii. 3·0		$\gamma$ Aquilæ. 2·8	
	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. N.
	h m	o	h m	o	h m	o	h m	o	h m	o
	18 50	26	18 57	30	19 1	13	19 4	21	19 42	10
	s /	s /	s /	s /	s /	s /	s /	s /	s /	s /
Jan. 1	3·0	24·2	15·6	0·2	32·3	44·2	45·7	9·6	15·4	24·4
Mar. 1	4·4	24·2	17·0	0·1	33·4	44·0	47·0	9·6	16·3	24·3
Apr. 30	6·4	24·1	19·1	0·1	35·1	44·1	48·9	9·5	18·0	24·3
June 29	7·9	24·1	20·7	0·1	36·5	44·3	50·4	9·4	19·5	24·5
Aug. 28	8·0	24·1	20·8	0·1	36·5	44·4	50·6	9·4	19·8	24·7
Oct. 27	7·0	24·1	19·8	0·1	35·5	44·5	49·7	9·5	18·9	24·7
Dec. 26	6·8	24·1	19·5	0·1	35·2	44·3	49·4	9·4	18·4	24·6



AT UPPER TRANSIT AT GREENWICH.

Date.	δ Cygni. 3.0		α Aquilæ. (Altair) 0.9		α Pavonis. 2.1		γ Cygni. 2.3		α Cygni. (Deneb) 1.3	
	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. N.
	h m	o	h m	o	h m	o	h m	o	h m	o
	19 42	44	19 46	8	20 19	57	20 19	39	20 38	44
	s /	s /	s /	s /	s /	s /	s /	s /	s /	s /
Jan. 1	19.5	55.5	40.5	38.7	0.0	0.5	11.6	59.3	32.7	58.9
Mar. 1	20.4	55.2	41.4	38.6	1.2	0.2	12.2	59.0	33.2	58.6
Apr. 30	22.5	55.2	43.1	38.6	4.0	0.1	14.1	59.0	35.1	58.5
June 29	24.2	55.5	44.7	38.8	6.8	0.1	15.9	59.2	37.1	58.8
Aug. 26	24.1	55.8	44.9	39.0	7.6	0.2	16.2	59.5	37.5	59.1
Oct. 27	22.6	55.9	44.1	39.0	6.1	0.4	15.0	59.7	36.3	59.3
Dec. 26	21.6	55.7	43.6	38.9	4.9	0.3	14.0	59.6	35.1	59.2

Date.	ε Cygni. 2.6		α Cephei. 2.6		ε Pegasi. 2.5		δ Capricorni. 3.0		α Gruis. 2.2	
	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. N.	R.A.	Dec. S.	R.A.	Dec. S.
	h m	o	h m	o	h m	o	h m	o	h m	o
	20 42	33	21 16	62	21 40	9	21 42	16	22 2	47
	s /	s /	s /	s /	s /	s /	s /	s /	s /	s /
Jan. 1	47.8	39.4	32.2	14.0	3.4	29.4	24.4	30.6	56.8	22.3
Mar. 1	48.3	39.1	32.1	13.7	3.7	29.3	24.7	30.6	57.0	22.1
Apr. 30	50.0	39.1	34.5	13.5	5.0	29.3	26.1	30.4	58.7	21.8
June 29	51.9	39.3	37.4	13.7	6.8	29.5	28.0	30.3	61.1	21.7
Aug. 28	52.4	39.6	38.2	14.1	7.7	29.7	29.0	30.2	62.6	21.8
Oct. 27	51.4	39.8	36.4	14.3	7.3	29.8	28.6	30.3	62.0	22.0
Dec. 26	50.5	39.7	34.1	14.3	6.6	29.7	27.9	30.3	60.7	22.0

Date.	α Toucani. 2.9		β Gruis. 2.2		α Piscis Australis. (Fomalhaut) 1.3		β Pegasi. 2.2-2.7		α Pegasi. (Markab) 2.6	
	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. S.	R.A.	Dec. N.	R.A.	Dec. N.
	h m	o	h m	o	h m	o	h m	o	h m	o
	22 12	60	22 37	47	22 53	30	22 59	27	23 0	14
	s /	s /	s /	s /	s /	s /	s /	s /	s /	s /
Jan. 1	45.5	40.9	39.7	19.6	1.1	4.2	42.0	37.8	34.7	45.3
Mar. 1	45.4	40.7	39.5	19.4	1.0	4.1	41.7	37.6	34.5	45.2
Apr. 30	47.5	40.4	41.0	19.2	2.1	3.8	42.7	37.6	35.5	45.2
June 29	50.7	40.3	43.4	19.0	4.1	3.7	44.7	37.7	37.3	45.4
Aug. 28	52.6	40.4	45.0	19.1	5.5	3.6	46.1	38.0	38.6	45.6
Oct. 27	51.7	40.6	44.7	19.3	5.4	3.8	46.0	38.2	38.6	45.7
Dec. 26	49.8	40.6	43.4	19.3	4.6	3.8	45.2	38.2	37.9	45.7

USED IN DETERMINING THE APPROXIMATE LATITUDE  
BY OBSERVATIONS OF THE POLE STAR  
OUT OF THE MERIDIAN.

TABLE I.

Containing the *First* Correction.

*Argument*:—Local Sidereal Time of Observation.

	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>
m	o / //	o / //	o / //	o / //	o / //	o / //	o / //	o / //
0	-1 2 50	-1 7 25	-1 7 25	-1 2 50	-0 53 57	-0 41 24	-0 26 1	-0 8 52
2	1 3 3	1 7 29	1 7 20	1 2 36	0 53 35	0 40 55	0 25 28	0 8 17
4	1 3 16	1 7 34	1 7 15	1 2 22	0 53 13	0 40 27	0 24 55	0 7 42
6	1 3 29	1 7 38	1 7 10	1 2 7	0 52 51	0 39 58	0 24 22	0 7 6
8	1 3 42	1 7 41	1 7 4	1 1 53	0 52 28	0 39 29	0 23 49	0 6 31
10	-1 3 54	-1 7 44	-1 6 58	-1 1 38	-0 52 5	-0 39 0	-0 23 15	-0 5 56
12	1 4 6	1 7 47	1 6 52	1 1 23	0 51 42	0 38 31	0 22 42	0 5 20
14	1 4 18	1 7 50	1 6 45	1 1 7	0 51 19	0 38 2	0 22 8	0 4 45
16	1 4 29	1 7 52	1 6 38	1 0 51	0 50 56	0 37 32	0 21 35	0 4 9
18	1 4 40	1 7 54	1 6 31	1 0 35	0 50 32	0 37 2	0 21 1	0 3 33
20	-1 4 51	-1 7 56	-1 6 23	-1 0 19	-0 50 8	-0 36 32	-0 20 27	-0 2 58
22	1 5 2	1 7 58	1 6 16	1 0 2	0 49 44	0 36 2	0 19 53	0 2 22
24	1 5 12	1 7 59	1 6 7	0 59 46	0 49 20	0 35 32	0 19 19	0 1 47
26	1 5 22	1 7 59	1 5 59	0 59 28	0 48 55	0 35 1	0 18 44	0 1 11
28	1 5 31	1 8 0	1 5 50	0 59 11	0 48 30	0 34 31	0 18 10	-0 0 35
30	-1 5 41	-1 8 0	-1 5 41	-0 58 53	-0 48 5	-0 34 0	-0 17 36	0 0 0
32	1 5 50	1 8 0	1 5 31	0 58 35	0 47 40	0 33 29	0 17 2	+0 0 35
34	1 5 59	1 7 59	1 5 22	0 58 17	0 47 14	0 32 58	0 16 27	0 1 11
36	1 6 7	1 7 59	1 5 12	0 57 59	0 46 49	0 32 27	0 15 52	0 1 47
38	1 6 16	1 7 58	1 5 2	0 57 40	0 46 23	0 31 56	0 15 18	0 2 22
40	-1 6 23	-1 7 56	-1 4 51	-0 57 21	-0 45 56	-0 31 24	-0 14 43	+0 2 58
42	1 6 31	1 7 54	1 4 40	0 57 2	0 45 30	0 30 52	0 14 8	0 3 33
44	1 6 38	1 7 52	1 4 29	0 56 42	0 45 3	0 30 20	0 13 34	0 4 9
46	1 6 45	1 7 50	1 4 18	0 56 22	0 44 37	0 29 49	0 12 58	0 4 45
48	1 6 52	1 7 47	1 4 6	0 56 2	0 44 10	0 29 16	0 12 23	0 5 20
50	-1 6 58	-1 7 44	-1 3 54	-0 55 42	-0 43 43	-0 28 44	-0 11 48	+0 5 56
52	1 7 4	1 7 41	1 3 42	0 55 22	0 43 15	0 28 12	0 11 13	0 6 31
54	1 7 10	1 7 38	1 3 29	0 55 1	0 42 48	0 27 39	0 10 38	0 7 6
56	1 7 15	1 7 34	1 3 16	0 54 40	0 42 20	0 27 7	0 10 3	0 7 42
58	1 7 20	1 7 29	1 3 3	0 54 18	0 41 52	0 26 34	0 9 28	0 8 17
60	-1 7 25	-1 7 25	-1 2 50	-0 53 57	-0 41 24	-0 26 1	-0 8 52	+0 8 52



POLE STAR TABLES.

USED IN DETERMINING THE APPROXIMATE LATITUDE  
BY OBSERVATIONS OF THE POLE STAR  
OUT OF THE MERIDIAN.

TABLE I.—*continued.*

Containing the *First* Correction.

Argument:—Local Sidereal Time of Observation.

	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>
m	° / //	° / //	° / //	° / //	° / //	° / //	° / //	° / //
0	+0 8 52	+0 26 1	+0 41 24	+0 53 57	+1 2 50	+1 7 25	+1 7 25	+1 2 50
2	0 9 28	0 26 34	0 41 52	0 54 18	1 3 3	1 7 29	1 7 20	1 2 36
4	0 10 3	0 27 7	0 42 20	0 54 40	1 3 16	1 7 34	1 7 15	1 2 22
6	0 10 38	0 27 39	0 42 48	0 55 1	1 3 29	1 7 38	1 7 10	1 2 7
8	0 11 13	0 28 12	0 43 15	0 55 22	1 3 42	1 7 41	1 7 4	1 1 53
10	+0 11 48	+0 28 44	1 0 43 43	+0 55 42	+1 3 54	+1 7 44	+1 6 58	+1 1 38
12	0 12 23	0 29 16	0 44 10	0 56 2	1 4 6	1 7 47	1 6 52	1 1 23
14	0 12 58	0 29 49	0 44 37	0 56 22	1 4 18	1 7 50	1 6 45	1 1 7
16	0 13 34	0 30 20	0 45 3	0 56 42	1 4 29	1 7 52	1 6 38	1 0 51
18	0 14 8	0 30 52	0 45 30	0 57 2	1 4 40	1 7 54	1 6 31	1 0 35
20	+0 14 43	+0 31 24	+0 45 56	+0 57 21	+1 4 51	+1 7 56	+1 6 23	+1 0 19
22	0 15 18	0 31 56	0 46 23	0 57 40	1 5 2	1 7 58	1 6 16	1 0 2
24	0 15 52	0 32 27	0 46 49	0 57 59	1 5 12	1 7 59	1 6 7	0 59 46
26	0 16 27	0 32 58	0 47 14	0 58 17	1 5 22	1 7 59	1 5 59	0 59 28
28	0 17 2	0 33 29	0 47 40	0 58 35	1 5 31	1 8 0	1 5 50	0 59 11
30	+0 17 36	+0 34 0	+0 48 5	+0 58 53	+1 5 41	+1 8 0	+1 5 41	+0 58 53
32	0 18 10	0 34 31	0 48 30	0 59 11	1 5 50	1 8 0	1 5 31	0 58 35
34	0 18 44	0 35 1	0 48 55	0 59 28	1 5 59	1 7 59	1 5 22	0 58 17
36	0 19 19	0 35 32	0 49 20	0 59 46	1 6 7	1 7 59	1 5 12	0 57 59
38	0 19 53	0 36 2	0 49 44	1 0 2	1 6 16	1 7 58	1 5 2	0 57 40
40	+0 20 27	+0 36 32	+0 50 8	+1 0 19	+1 6 23	+1 7 56	+1 4 51	+0 57 21
42	0 21 1	0 37 2	0 50 32	1 0 35	1 6 31	1 7 54	1 4 40	0 57 2
44	0 21 35	0 37 32	0 50 56	1 0 51	1 6 38	1 7 52	1 4 29	0 56 42
46	0 22 8	0 38 2	0 51 19	1 1 7	1 6 45	1 7 50	1 4 18	0 56 22
48	0 22 42	0 38 31	0 51 42	1 1 23	1 6 52	1 7 47	1 4 6	0 56 2
50	+0 23 15	+0 39 0	+0 52 5	+1 1 38	+1 6 58	+1 7 44	+1 3 54	+0 55 42
52	0 23 49	0 39 29	0 52 28	1 1 53	1 7 4	1 7 41	1 3 42	0 55 22
54	0 24 22	0 39 58	0 52 51	1 2 7	1 7 10	1 7 38	1 3 29	0 55 1
56	0 24 55	0 40 27	0 53 13	1 2 22	1 7 15	1 7 34	1 3 16	0 54 40
58	0 25 28	0 40 55	0 53 35	1 2 36	1 7 20	1 7 29	1 3 3	0 54 18
60	+0 26 1	+0 41 24	+0 53 57	+1 2 50	+1 7 25	+1 7 25	+1 2 50	+0 53 57

POLE STAR TABLES.

USED IN DETERMINING THE APPROXIMATE LATITUDE  
BY OBSERVATIONS OF THE POLE STAR  
OUT OF THE MERIDIAN.

TABLE I.—*continued.*

Containing the *First* Correction.

Argument:—Local Sidereal Time of Observation.

	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>
m	° / //	° / //	° / //	° / //	° / //	° / //	° / //	° / //
0	+0 53 57	+0 41 24	+0 26 1	+0 8 52	-0 8 52	-0 26 1	-0 41 24	-0 53 57
2	0 53 35	0 40 55	0 25 28	0 8 17	0 9 28	0 26 34	0 41 52	0 54 18
4	0 53 13	0 40 27	0 24 55	0 7 42	0 10 3	0 27 7	0 42 20	0 54 40
6	0 52 51	0 39 58	0 24 22	0 7 6	0 10 38	0 27 39	0 42 48	0 55 1
8	0 52 28	0 39 29	0 23 49	0 6 31	0 11 13	0 28 12	0 43 15	0 55 22
10	+0 52 5	+0 39 0	+0 23 15	+0 5 56	-0 11 48	-0 28 44	-0 43 43	-0 55 42
12	0 51 42	0 38 31	0 22 42	0 5 20	0 12 23	0 29 16	0 44 10	0 56 2
14	0 51 19	0 38 2	0 22 8	0 4 45	0 12 58	0 29 49	0 44 37	0 56 22
16	0 50 56	0 37 32	0 21 35	0 4 9	0 13 34	0 30 20	0 45 3	0 56 42
18	0 50 32	0 37 2	0 21 1	0 3 33	0 14 8	0 30 52	0 45 30	0 57 2
20	+0 50 8	+0 36 32	+0 20 27	+0 2 58	-0 14 43	-0 31 24	-0 45 56	-0 57 21
22	0 49 44	0 36 2	0 19 53	0 2 22	0 15 18	0 31 56	0 46 23	0 57 40
24	0 49 20	0 35 32	0 19 19	0 1 47	0 15 52	0 32 27	0 46 49	0 57 59
26	0 48 55	0 35 1	0 18 44	0 1 11	0 16 27	0 32 58	0 47 14	0 58 17
28	0 48 30	0 34 31	0 18 10	+0 0 35	0 17 2	0 33 29	0 47 40	0 58 35
30	+0 48 5	+0 34 0	+0 17 36	0 0 0	-0 17 36	-0 34 0	-0 48 5	-0 58 53
32	0 47 40	0 33 29	0 17 2	-0 0 35	0 18 10	0 34 31	0 48 30	0 59 11
34	0 47 14	0 32 58	0 16 27	0 1 11	0 18 44	0 35 1	0 48 55	0 59 28
36	0 46 49	0 32 27	0 15 52	0 1 47	0 19 19	0 35 32	0 49 20	0 59 46
38	0 46 23	0 31 56	0 15 18	0 2 22	0 19 53	0 36 2	0 49 44	1 0 2
40	+0 45 56	+0 31 24	+0 14 43	-0 2 58	-0 20 27	-0 36 32	-0 50 8	-1 0 19
42	0 45 32	0 30 52	0 14 8	0 3 33	0 21 1	0 37 2	0 50 32	1 0 35
44	0 45 3	0 30 20	0 13 34	0 4 9	0 21 35	0 37 32	0 50 56	1 0 51
46	0 44 37	0 29 49	0 12 58	0 4 45	0 22 8	0 38 2	0 51 19	1 1 7
48	0 44 10	0 29 16	0 12 23	0 5 20	0 22 42	0 38 31	0 51 42	1 1 23
50	+0 43 43	+0 28 44	+0 11 48	-0 5 56	-0 23 15	-0 39 0	-0 52 5	-1 1 38
52	0 43 15	0 28 12	0 11 13	0 6 31	0 23 49	0 39 29	0 52 28	1 1 53
54	0 42 48	0 27 39	0 10 38	0 7 6	0 24 22	0 39 58	0 52 51	1 2 7
56	0 42 20	0 27 7	0 10 3	0 7 42	0 24 55	0 40 27	0 53 13	1 2 22
58	0 41 52	0 26 34	0 9 28	0 8 17	0 25 28	0 40 55	0 53 35	1 2 36
60	+0 41 24	+0 26 1	+0 8 52	-0 8 52	-0 26 1	-0 41 24	-0 53 57	-1 2 50



POLE STAR TABLES.

TABLE II.

Containing the *Second Correction (always to be added)*.  
*Arguments:—Local Sidereal Time and Altitude.*

Local Sidereal Time.	ALTITUDE.								Local Sidereal Time.
	0°	5°	10°	15°	20°	25°	30°	35°	
h m	/ //	/ //	/ //	/ //	/ //	/ //	/ //	/ //	h m
0 0	0 0	0 1	0 1	0 2	0 2	0 3	0 3	0 4	12 0
0 30	0 0	0 0	0 0	0 1	0 1	0 1	0 2	0 2	12 30
1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	13 0
1 30	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	13 30
2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	14 0
2 30	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	14 30
3 0	0 0	0 1	0 1	0 2	0 2	0 3	0 3	0 4	15 0
3 30	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	15 30
4 0	0 0	0 1	0 3	0 4	0 5	0 7	0 9	0 11	16 0
4 30	0 0	0 2	0 4	0 5	0 7	0 9	0 12	0 14	16 30
5 0	0 0	0 2	0 4	0 7	0 9	0 12	0 15	0 18	17 0
5 30	0 0	0 3	0 5	0 8	0 11	0 14	0 17	0 21	17 30
6 0	0 0	0 3	0 6	0 9	0 13	0 16	0 20	0 24	18 0
6 30	0 0	0 3	0 7	0 10	0 14	0 18	0 22	0 26	18 30
7 0	0 0	0 3	0 7	0 11	0 14	0 19	0 23	0 28	19 0
7 30	0 0	0 4	0 7	0 11	0 15	0 19	0 23	0 28	19 30
8 0	0 0	0 3	0 7	0 11	0 14	0 19	0 23	0 28	20 0
8 30	0 0	0 3	0 7	0 10	0 14	0 18	0 22	0 26	20 30
9 0	0 0	0 3	0 6	0 9	0 13	0 16	0 20	0 24	21 0
9 30	0 0	0 3	0 5	0 8	0 11	0 14	0 17	0 21	21 30
10 0	0 0	0 2	0 4	0 7	0 9	0 12	0 15	0 18	22 0
10 30	0 0	0 2	0 4	0 5	0 7	0 9	0 12	0 14	22 30
11 0	0 0	0 1	0 3	0 4	0 5	0 7	0 9	0 11	23 0
11 30	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	23 30
12 0	0 0	0 1	0 1	0 2	0 2	0 3	0 3	0 4	24 0

TABLE III (for 1916).

Containing the *Third Correction (always to be added)*.  
*Arguments:—Local Sidereal Time and Date.*

Local Sidereal Time.	Jan. 1.	Feb. 1.	March 1.	April 1.	May 1.	June 1.	July 1.
h	/ //	/ //	/ //	/ //	/ //	/ //	/ //
0	0 52	0 49	0 42	0 33	0 24	0 21	0 23
2	0 52	0 55	0 52	0 43	0 34	0 26	0 23
4	0 56	1 1	1 3	0 59	0 51	0 42	0 34
6	1 0	1 8	1 14	1 14	1 10	1 1	0 52
8	1 4	1 13	1 21	1 27	1 27	1 21	1 11
10	1 7	1 13	1 23	1 31	1 36	1 35	1 28
12	1 8	1 11	1 18	1 27	1 36	1 39	1 37
14	1 8	1 5	1 8	1 17	1 26	1 34	1 37
16	1 4	0 59	0 57	1 1	1 9	1 18	1 26
18	1 0	0 52	0 46	0 46	0 50	0 59	1 8
20	0 56	0 47	0 39	0 33	0 33	0 39	0 49
22	0 53	0 47	0 37	0 29	0 24	0 25	0 32
24	0 52	0 49	0 42	0 33	0 24	0 21	0 23

POLE STAR TABLES.

TABLE II.

Containing the *Second Correction (always to be added)*.  
*Arguments:—Local Sidereal Time and Altitude.*

Local Sidereal Time.	ALTITUDE.								Local Sidereal Time.
	35°	40°	45°	50°	55°	60°	65°	70°	
h m	/ //	/ //	/ //	/ //	/ //	/ //	/ //	/ //	h m
0 0	0 4	0 5	0 6	0 7	0 8	0 10	0 13	0 16	12 0
0 30	0 2	0 3	0 3	0 3	0 4	0 5	0 6	0 7	12 30
1 0	0 0	0 1	0 1	0 1	0 1	0 1	0 2	0 2	13 0
1 30	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	13 30
2 0	0 0	0 1	0 1	0 1	0 1	0 1	0 2	0 2	14 0
2 30	0 2	0 2	0 3	0 3	0 4	0 5	0 6	0 7	14 30
3 0	0 4	0 5	0 6	0 7	0 8	0 10	0 13	0 16	15 0
3 30	0 7	0 8	0 10	0 12	0 14	0 17	0 22	0 28	15 30
4 0	0 11	0 13	0 15	0 18	0 21	0 26	0 32	0 41	16 0
4 30	0 14	0 17	0 20	0 24	0 29	0 35	0 43	0 56	16 30
5 0	0 18	0 21	0 25	0 30	0 36	0 44	0 54	1 10	17 0
5 30	0 21	0 25	0 30	0 36	0 43	0 52	1 5	1 23	17 30
6 0	0 24	0 29	0 35	0 41	0 49	1 0	1 14	1 35	18 0
6 30	0 26	0 32	0 38	0 45	0 54	1 5	1 21	1 43	18 30
7 0	0 28	0 33	0 40	0 47	0 57	1 9	1 25	1 49	19 0
7 30	0 28	0 34	0 40	0 48	0 58	1 10	1 27	1 51	19 30
8 0	0 28	0 33	0 40	0 47	0 57	1 9	1 25	1 49	20 0
8 30	0 26	0 32	0 38	0 45	0 54	1 5	1 21	1 43	20 30
9 0	0 24	0 29	0 35	0 41	0 49	1 0	1 14	1 35	21 0
9 30	0 21	0 25	0 30	0 36	0 43	0 52	1 5	1 23	21 30
10 0	0 18	0 21	0 25	0 30	0 36	0 44	0 54	1 10	22 0
10 30	0 14	0 17	0 20	0 24	0 29	0 35	0 43	0 56	22 30
11 0	0 11	0 13	0 15	0 18	0 21	0 26	0 32	0 41	23 0
11 30	0 7	0 8	0 10	0 12	0 14	0 17	0 22	0 28	23 30
12 0	0 4	0 5	0 6	0 7	0 8	0 10	0 13	0 16	24 0

TABLE III (for 1916).

Containing the *Third Correction (always to be added)*.  
*Arguments:—Local Sidereal Time and Date.*

Local Sidereal Time.	July 1.	Aug. 1.	Sept. 1.	Oct. 1.	Nov. 1.	Dec. 1.	Dec. 31.
h	/ //	/ //	/ //	/ //	/ //	/ //	/ //
0	0 23	0 29	0 39	0 50	1 2	1 10	1 12
2	0 23	0 23	0 30	0 40	0 51	1 2	1 9
4	0 34	0 30	0 30	0 34	0 43	0 53	1 3
6	0 52	0 42	0 37	0 36	0 40	0 46	0 56
8	1 11	1 1	0 51	0 43	0 41	0 42	0 50
10	1 28	1 19	1 7	0 56	0 48	0 45	0 47
12	1 37	1 31	1 21	1 10	0 58	0 50	0 48
14	1 37	1 37	1 30	1 20	1 9	0 58	0 51
16	1 26	1 30	1 30	1 26	1 17	1 7	0 57
18	1 8	1 18	1 23	1 24	1 20	1 14	1 4
20	0 49	0 59	1 9	1 17	1 19	1 18	1 10
22	0 32	0 41	0 53	1 4	1 12	1 15	1 13
24	0 23	0 29	0 39	0 50	1 2	1 10	1 12



TABLES.

MEAN SOLAR INTO SIDEREAL TIME.

Hours.			Minutes.			Seconds.			
Mean Time.	Equivalents in Sidereal Time.		Mean Time.	Equivalents in Sidereal Time.		Mean Time.	Equivalents in Sidereal Time.		
h m s	h m s	m s	m s	m s	s s	s s	s s	s s	
1	1	0	9.86	1	1	0.16	31	31	5.09
2	2	0	19.71	2	2	0.33	32	32	5.26
3	3	0	29.57	3	3	0.49	33	33	5.42
4	4	0	39.43	4	4	0.66	34	34	5.59
5	5	0	49.28	5	5	0.82	35	35	5.75
6	6	0	59.14	6	6	0.99	36	36	5.91
7	7	1	9.00	7	7	1.15	37	37	6.08
8	8	1	18.85	8	8	1.31	38	38	6.24
9	9	1	28.71	9	9	1.48	39	39	6.41
10	10	1	38.56	10	10	1.64	40	40	6.57
11	11	1	48.42	11	11	1.81	41	41	6.74
12	12	1	58.28	12	12	1.97	42	42	6.90
13	13	2	8.13	13	13	2.14	43	43	7.06
14	14	2	17.99	14	14	2.30	44	44	7.23
15	15	2	27.85	15	15	2.46	45	45	7.39
16	16	2	37.70	16	16	2.63	46	46	7.56
17	17	2	47.56	17	17	2.79	47	47	7.72
18	18	2	57.42	18	18	2.96	48	48	7.89
19	19	3	7.27	19	19	3.12	49	49	8.05
20	20	3	17.13	20	20	3.29	50	50	8.21
21	21	3	26.99	21	21	3.45	51	51	8.38
22	22	3	36.84	22	22	3.61	52	52	8.54
23	23	3	46.70	23	23	3.78	53	53	8.71
24	24	3	56.56	24	24	3.94	54	54	8.87
				25	25	4.11	55	55	9.04
				26	26	4.27	56	56	9.20
				27	27	4.44	57	57	9.36
				28	28	4.60	58	58	9.53
				29	29	4.76	59	59	9.69
				30	30	4.93	60	60	9.86

EXAMPLE.—To convert 2 26 16.0 Mean Time at Greenwich, Jan. 20, 1916, into Sidereal Time.

Sidereal Time at the preceding Mean Noon, viz., Jan. 20 ..... 19 54 10.8

For Mean Intervals { 2 0 0 } the Table gives the Equivalent { 2 0 19.71  
 { 26 0 } Sidereal Intervals { 26 4.27  
 { 16 } { 16.04

The Sum is the Sidereal Time required..... 22 20 50.8

TABLES.

SIDEREAL INTO MEAN SOLAR TIME.

Hours.			Minutes.			Seconds.			
Sidereal Time.	Equivalents in Mean Time.		Sidereal Time.	Equivalents in Mean Time.		Sidereal Time.	Equivalents in Mean Time.		
h m s	h m s	m s	m s	m s	s s	s s	s s	s s	
1	0	59	50.17	1	0	59.84	31	30	54.92
2	1	59	40.34	2	1	59.67	32	31	54.76
3	2	59	30.51	3	2	59.51	33	32	54.59
4	3	59	20.68	4	3	59.34	34	33	54.43
5	4	59	10.85	5	4	59.18	35	34	54.27
6	5	59	1.02	6	5	59.02	36	35	54.10
7	6	58	51.19	7	6	58.85	37	36	53.94
8	7	58	41.36	8	7	58.69	38	37	53.77
9	8	58	31.53	9	8	58.53	39	38	53.61
10	9	58	21.70	10	9	58.36	40	39	53.45
11	10	58	11.87	11	10	58.20	41	40	53.28
12	11	58	2.05	12	11	58.03	42	41	53.12
13	12	57	52.22	13	12	57.87	43	42	52.96
14	13	57	42.39	14	13	57.71	44	43	52.79
15	14	57	32.56	15	14	57.54	45	44	52.63
16	15	57	22.73	16	15	57.38	46	45	52.46
17	16	57	12.90	17	16	57.21	47	46	52.30
18	17	57	3.07	18	17	57.05	48	47	52.14
19	18	56	53.24	19	18	56.89	49	48	51.97
20	19	56	43.41	20	19	56.72	50	49	51.81
21	20	56	33.58	21	20	56.56	51	50	51.64
22	21	56	23.75	22	21	56.40	52	51	51.48
23	22	56	13.92	23	22	56.23	53	52	51.32
24	23	56	4.09	24	23	56.07	54	53	51.15
				25	24	55.90	55	54	50.99
				26	25	55.74	56	55	50.83
				27	26	55.58	57	56	50.66
				28	27	55.41	58	57	50.50
				29	28	55.25	59	58	50.33
				30	29	55.09	60	59	50.17

EXAMPLE.—To convert 22 20 50.8 Sidereal Time at Greenwich, Jan. 20, 1916, into Mean Time.

Sidereal Time at the preceding Mean Noon, viz., Jan. 20..... 19 54 10.8  
 2 26 40.0

For Sidereal Intervals { 2 0 0 } the Table gives the Equivalent { 1 59 40.34  
 { 26 0 } Mean Intervals { 25 55.74  
 { 40 } { 39.89

The Sum is the Mean Time required, Jan. 20 ..... 2 26 16.0



RISING AND SETTING.

TABLE FOR FINDING THE TIME OF RISING OR SETTING OF A CELESTIAL BODY.

DECLINATION.

Table with columns for Latitude (Lat.) and Declination (0° to 15°). Rows show time values in hours and minutes for various declination increments.

RISING AND SETTING.

TABLE FOR FINDING THE TIME OF RISING OR SETTING OF A CELESTIAL BODY.

DECLINATION.

Table with columns for Latitude (Lat.) and Declination (16° to 30°). Rows show time values in hours and minutes for various declination increments.











TABLE OF PROPORTIONAL PARTS.

Int. 2 hrs.	The Differences for 2 or 24 Hours.														Interval 24 hrs.	
	244	248	252	256	260	264	268	272	276	280	284	288	292	296		300
m 1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	0
2	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	12
3	6	6	6	6	6	6	6	7	7	7	7	7	7	7	8	24
4	8	8	8	9	9	9	9	9	9	9	9	10	10	10	10	36
5	10	10	10	11	11	11	11	11	12	12	12	12	12	12	13	48
6	12	12	13	13	13	13	13	14	14	14	14	14	15	15	15	0
7	14	14	15	15	15	15	16	16	16	16	17	17	17	17	18	12
8	16	17	17	17	18	18	18	18	19	19	19	19	20	20	20	24
9	18	19	19	19	20	20	20	20	21	21	21	22	22	22	22	36
10	20	21	21	21	22	22	22	23	23	23	24	24	24	25	25	48
11	22	23	23	23	24	24	25	25	25	26	26	26	27	27	28	0
12	24	25	25	26	26	26	27	27	28	28	28	29	29	30	30	12
13	26	27	27	28	28	29	29	29	30	30	31	31	32	32	32	24
14	28	29	29	30	30	31	31	32	32	33	33	34	34	35	35	36
15	30	31	32	32	33	33	34	34	35	35	36	36	37	37	38	48
16	33	33	34	34	35	35	36	36	37	37	38	38	39	39	40	0
17	35	35	36	36	37	37	38	39	39	40	40	41	41	42	43	12
18	37	37	38	38	39	40	40	41	41	42	43	43	44	44	45	24
19	39	39	40	41	41	42	42	43	44	44	45	46	46	47	48	36
20	41	41	42	43	43	44	45	45	46	47	47	48	49	49	50	48
21	43	43	44	45	45	46	47	48	48	49	50	50	51	52	53	0
22	45	45	46	47	48	48	49	50	51	51	52	53	54	54	55	12
23	47	48	48	49	50	51	51	52	53	54	54	55	56	57	57	24
24	49	50	50	51	52	53	54	54	55	56	57	58	58	59	60	36
25	51	52	53	53	54	55	56	57	57	58	59	60	61	62	63	48
26	53	54	55	55	56	57	58	59	60	61	62	62	63	64	65	0
27	55	56	57	58	59	59	60	61	62	63	64	65	66	67	68	12
28	57	58	59	60	61	62	63	63	64	65	66	67	68	69	70	24
29	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	36
30	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	48
31	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	0
32	65	66	67	68	69	70	71	73	74	75	76	77	78	79	80	12
33	67	68	69	70	71	73	74	75	76	77	78	79	80	81	83	24
34	69	70	71	73	74	75	76	77	78	79	80	82	83	84	85	36
35	71	72	73	75	76	77	78	79	81	82	83	84	85	86	88	48
36	73	74	76	77	78	79	80	82	83	84	85	86	88	89	90	0
37	75	76	78	79	80	81	83	84	85	86	88	89	90	91	93	12
38	77	79	80	81	82	84	85	86	87	89	90	91	92	94	95	24
39	79	81	82	83	85	86	87	88	90	91	92	94	95	96	98	36
40	81	83	84	85	87	88	89	91	92	93	95	96	97	99	100	48
41	83	85	86	87	89	90	92	93	94	96	97	98	100	101	103	0
42	85	87	88	90	91	92	94	95	97	98	99	101	102	104	105	12
43	87	89	90	92	93	95	96	97	99	100	102	103	105	106	108	24
44	89	91	92	94	95	97	98	100	101	103	104	106	107	109	110	36
45	91	93	95	96	97	99	101	102	103	105	107	108	109	111	113	48
46	94	95	97	98	100	101	103	104	106	107	109	110	112	113	115	0
47	96	97	99	100	102	103	105	107	108	110	111	113	114	116	118	12
48	98	99	101	102	104	106	107	109	110	112	114	115	117	118	120	24
49	100	101	103	105	106	108	109	111	113	114	116	118	119	121	123	36
50	102	103	105	107	108	110	112	113	115	117	118	120	122	123	125	48
51	104	105	107	109	110	112	114	116	117	119	121	122	124	126	128	0
52	106	107	109	111	113	114	116	118	120	121	123	125	127	128	130	12
53	108	110	111	113	115	117	118	120	122	124	125	127	129	131	132	24
54	110	112	113	115	117	119	121	122	124	126	128	130	131	133	135	36
55	112	114	116	117	119	121	123	125	126	128	130	132	134	136	138	48
56	114	116	118	119	121	123	125	127	129	131	133	134	136	138	140	0
57	116	118	120	122	124	125	127	129	131	133	135	137	139	141	143	12
58	118	120	122	124	126	128	130	131	133	135	137	139	141	143	145	24
59	120	122	124	126	128	130	132	134	136	138	140	142	144	146	148	36
60	122	124	126	128	130	132	134	136	138	140	142	144	146	148	150	48

TABLE OF PROPORTIONAL PARTS.

Int. 2 hrs.	The Differences for 2 or 24 Hours.														Interval 24 hrs.	
	304	308	312	316	320	324	328	332	336	340	344	348	352	356		360
m 1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
2	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	12
3	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	24
4	10	10	10	11	11	11	11	11	11	11	11	11	12	12	12	36
5	13	13	13	13	13	13	14	14	14	14	14	14	15	15	15	48
6	15	15	16	16	16	16	16	17	17	17	17	17	18	18	18	0
7	18	18	18	18	19	19	19	19	19	20	20	20	21	21	21	12
8	20	21	21	21	21	22	22	22	22	22	22	23	23	23	24	24
9	23	23	23	24	24	24	24	25	25	25	25	25	26	26	27	36
10	25	26	26	26	27	27	27	27	28	28	28	28	29	29	30	48
11	28	28	29	29	29	29	30	30	30	30	30	31	31	31	32	0
12	30	31	31	31	32	32	32	32	32	32	32	33	33	33	33	12
13	33	33	34	34	34	35	35	35	35	36	36	36	36	37	37	24
14	35	36	36	37	37	37	38	38	38	38	39	39	39	40	40	36
15	38	39	39	39	40	40	41	41	41	41	41	41	42	42	42	48
16	41	41	42	42	42	43	43	43	44	44	44	44	45	45	46	0
17	43	44	44	44	45	45	46	46	46	47	47	47	48	48	49	12
18	46	46	47	47	48	48	48	49	49	49	50	50	50	51	51	24
19	48	49	49	50	50	51	51	52	52	52	53	53	53	54	54	36
20	51	51	52	52	53	53	54	54	55	55	55	56	56	57	57	48
21	53	54	55	55	56	56	57	57	58	58	59	59	60	60	61	0
22	56	56	57	58	58	59	59	60	60	61	61	62	62	62	63	12
23	58	59	60	61	61	62	62	63	63	64	64	64	65	65	66	24
24	61	62	62	63	63	64	64	65	65	66	66	67	67	68	68	36
25	63	64	65	66	66	67	67	68	68	69	69	70	70	71	71	48
26	66	67	68	68	69	69	70	70	71	71	72	72	73	73	74	0
27	68	69	70	71	71	72	72	73	73	74	74	75	75	76	77	12
28	71	72	73	74	74	75	75	76	76	77	77	78	78	79	80	24
29	73	74	75	76	76	77	77	78	78	79	80	80	81	81	82	36
30	76	77	78	79	79	80	80	81	81	82	82	83	83	84	84	48
31	79	80	81	82	82	83	83	84	84	85	85	86	86	87	88	0
32	81	82	83	84	84	85	85	86	86	87	87	88	88	89	90	12
33	84	85	86	87	87	88	88	89	89	90	90	91	91	92	92	24
34	86	87	88	89	89	90	90	91	91	92	92	93	93	94		



目次

横須賀港	180—185	呼子港	246—251
宮古港	186—191	佐世保港	252—257
細島港	192—197	輪島泊地	258—263
那覇港	198—203	大湊港	264—269
基隆港(社寮島)	204—209	小樽港	270—275
打狗港	210—215	大泊泊地	276—281
馬公港	216—221	鎮南浦錨地	282—287
神戸港	222—227	仁川港(上陸地)	288—293
粟島錨地	228—233	釜山港	294—299
吳港	234—239	旅順港	300—305
下ノ關(壇ノ浦)	240—245		

凡例

本表ニ掲載セル高低潮時及潮高ハけるびん式潮候推算器ニヨリテ推算セリ

表中ノ\*印ハ其欄ニ記入スヘキ潮候ナキモノ即チ日潮不等大ナル場合ニ於テ其日ニ唯一回潮ヲナスモノ或ハ午前潮カ午後潮トナリ午後潮カ當日又ハ翌日ノ午前潮トナルモノ等ヲ示ス

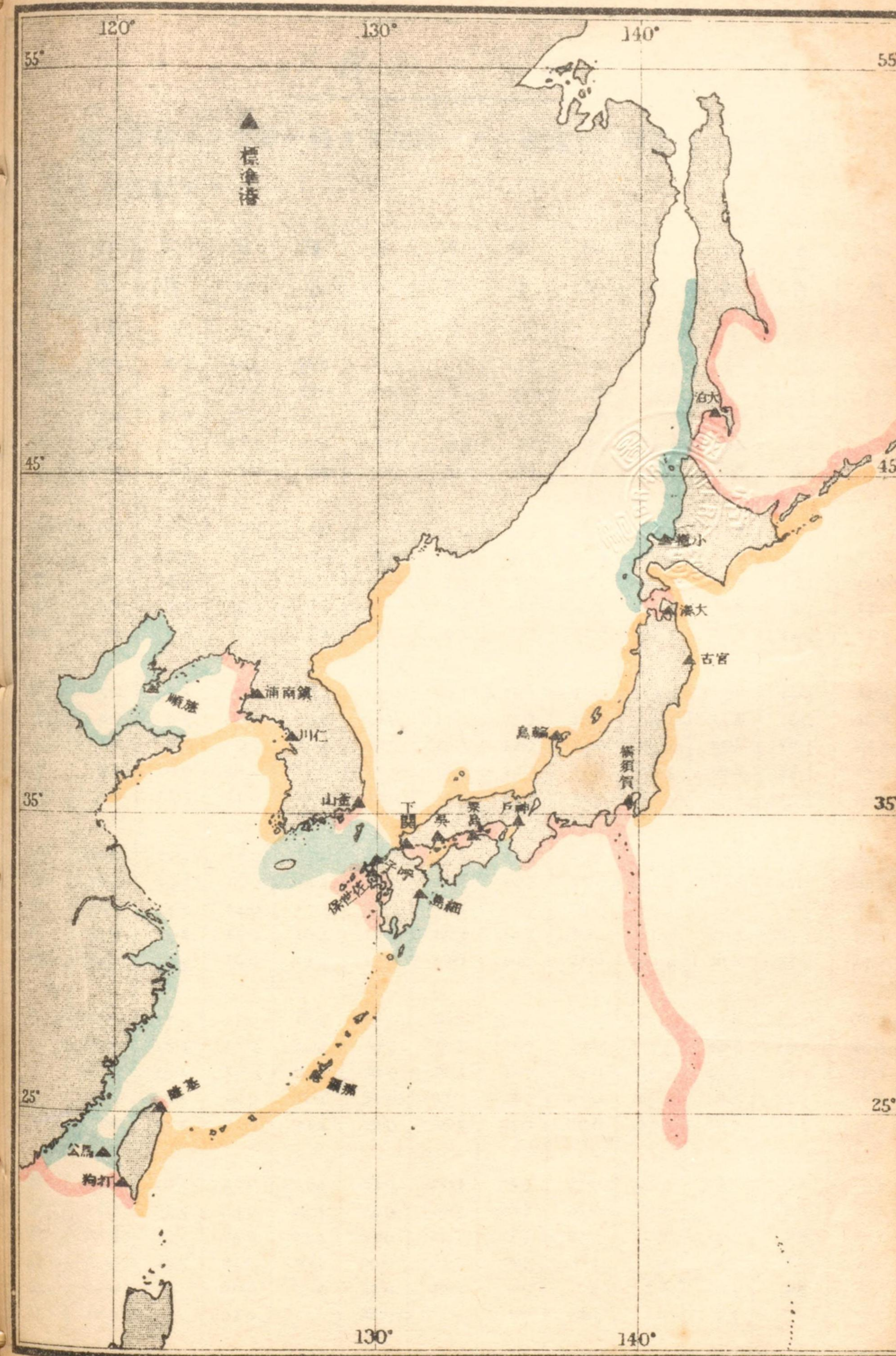
時刻ハ帝國中央標準時ヲ用フ但シ關東州及臺灣ハ西部標準時ヲ用フ而シテ時ノ種類ハ各表ノ欄外ニ之ヲ示ス

潮高ハ基本水準面ヨリノ高ニテ表ハス (-)ヲ附記スルモノハ基本水準面以下ナルヲ示ス 基本水準面ノ高サハ各表ノ欄外ニ之ヲ示ス

太陰盈虛及位置ハ中央標準時ニ據ル

太陰盈虛及位置欄内ニ記セシ●ハ朔, )ハ上弦, ○ハ望, (ハ下弦又Pハ近地點, Aハ遠地點, Nハ最北, Sハ最南, Eハ赤道上ナルヲ示ス

標準港及其代表區域圖





月 齡

茲ニ掲載セル月齡ハ朔ヨリ起算シタル帝國中央標準時ノ正午ニ於

ケル日數ナリ

日	一 月	二 月	三 月	四 月	五 月	六 月	七 月	八 月	九 月	十 月	十 一 月	十 二 月
	d	d	d	d	d	d	d	d	d	d	d	d
1	25.4	26.9	26.5	28.0	28.4	0.3	0.7	2.0	3.4	3.8	5.3	5.8
2	26.4	27.9	27.5	29.0	29.4	1.3	1.7	3.0	4.4	4.8	6.3	6.8
3	27.4	28.9	28.5	0.4	0.9	2.3	2.7	4.0	5.4	5.8	7.3	7.8
4	28.4	0.5	29.5	1.4	1.9	3.3	3.7	5.0	6.4	6.8	8.3	8.8
5	29.4	1.5	1.0	2.4	2.9	4.3	4.7	6.0	7.4	7.8	9.3	9.8
6	0.9	2.5	2.0	3.4	3.9	5.3	5.7	7.0	8.4	8.8	10.3	10.8
7	1.9	3.5	3.0	4.4	4.9	6.3	6.7	8.0	9.4	9.8	11.3	11.8
8	2.9	4.5	4.0	5.4	5.9	7.3	7.7	9.0	10.4	10.8	12.3	12.8
9	3.9	5.5	5.0	6.4	6.9	8.3	8.7	10.0	11.4	11.8	13.3	13.8
10	4.9	6.5	6.0	7.4	7.9	9.3	9.7	11.0	12.4	12.8	14.3	14.8
11	5.9	7.5	7.0	8.4	8.9	10.3	10.7	12.0	13.4	13.8	15.3	15.8
12	6.9	8.5	8.0	9.4	9.9	11.3	11.7	13.0	14.4	14.8	16.3	16.8
13	7.9	9.5	9.0	10.4	10.9	12.3	12.7	14.0	15.4	15.8	17.3	17.8
14	8.9	10.5	10.0	11.4	11.9	13.3	13.7	15.0	16.4	16.8	18.3	18.8
15	9.9	11.5	11.0	12.4	12.9	14.3	14.7	16.0	17.4	17.8	19.3	19.8
16	10.9	12.5	12.0	13.4	13.9	15.3	15.7	17.0	18.4	18.8	20.3	20.8
17	11.9	13.5	13.0	14.4	14.9	16.3	16.7	18.0	19.4	19.8	21.3	21.8
18	12.9	14.5	14.0	15.4	15.9	17.3	17.7	19.0	20.4	20.8	22.3	22.8
19	13.9	15.5	15.0	16.4	16.9	18.3	18.7	20.0	21.4	21.8	23.3	23.8
20	14.9	16.5	16.0	17.4	17.9	19.3	19.7	21.0	22.4	22.8	24.3	24.8
21	15.9	17.5	17.0	18.4	18.9	20.3	20.7	22.0	23.4	23.8	25.3	25.8
22	16.9	18.5	18.0	19.4	19.9	21.3	21.7	23.0	24.4	24.8	26.3	26.8
23	17.9	19.5	19.0	20.4	20.9	22.3	22.7	24.0	25.4	25.8	27.3	27.8
24	18.9	20.5	20.0	21.4	21.9	23.3	23.7	25.0	26.4	26.8	28.3	28.8
25	19.9	21.5	21.0	22.4	22.9	24.3	24.7	26.0	27.4	27.8	29.3	0.3
26	20.9	22.5	22.0	23.4	23.9	25.3	25.7	27.0	28.4	28.8	0.8	1.3
27	21.9	23.5	23.0	24.4	24.9	26.3	26.7	28.0	29.4	0.3	1.8	2.3
28	22.9	24.5	24.0	25.4	25.9	27.3	27.7	29.0	0.8	1.3	2.8	3.3
29	23.9	25.5	25.0	26.4	26.9	28.3	28.7	0.4	1.8	2.3	3.8	4.3
30	24.9		26.0	27.4	27.9	29.3	0.0	1.4	2.8	3.3	4.8	5.3
31	25.9		27.0		28.9		1.0	2.4		4.3		6.3







橫須賀港

日	五月								太陰盈虛及位置	六月								太陰盈虛及位置
	高潮				低潮					高潮				低潮				
	午前		午後		午前		午後			午前		午後		午前		午後		
	時刻	潮高	時刻	潮高	時刻	潮高	時刻	潮高		時刻	潮高	時刻	潮高	時刻	潮高	時刻	潮高	
1	h m	ft.	h m	ft.	h m	ft.	h m	ft.	h m	ft.	h m	ft.	h m	ft.	h m	ft.	●	
2	3 50	5.1	5 15	5.2	10 25	0.2	10 45	2.1	4 5	5.3	6 40	5.0	11 20	-2	11 30	3.0	●	
3	4 15	5.3	5 55	5.2	11 5	-1	11 15	2.3	4 35	5.3	7 15	5.0	11 50	-2	11 55	3.0	●	
4	4 45	5.3	6 40	5.1	11 40	-3	11 50	2.4	5 5	5.2	7 50	5.0	*	*	0 30	-1	●	
5	5 10	5.3	7 15	4.9	*	*	0 15	-2	5 35	5.0	8 20	4.9	0 30	3.0	1 0	0.1	●	
6	5 30	5.3	7 50	4.8	0 10	2.7	0 50	-1	6 10	4.8	8 50	4.8	1 5	3.1	1 35	0.3	●	
7	5 55	5.1	8 35	4.6	0 40	2.8	1 20	0.2	6 55	4.6	9 30	4.8	1 50	3.1	2 15	0.7	●	
8	6 20	4.8	9 20	4.4	1 10	3.1	1 55	0.5	7 45	4.3	10 5	4.7	2 35	3.0	2 50	1.1	●	
9	6 50	4.6	10 10	4.3	1 45	3.2	2 30	0.8	9 0	4.0	10 45	4.7	3 25	3.0	3 30	1.5	●	
10	7 35	4.2	11 5	4.3	2 30	3.4	3 15	1.2	10 30	3.8	11 30	4.7	4 45	2.8	4 20	2.1	●	
11	9 0	3.8	11 50	4.3	3 45	3.4	4 15	1.7	*	*	0 5	3.8	6 20	2.4	5 40	2.6	●	
12	11 5	3.7	*	*	6 50	3.2	5 50	1.9	0 5	4.7	1 35	3.9	7 30	1.8	7 30	2.8	●	
13	0 45	4.4	0 45	3.8	7 45	2.6	7 15	2.1	0 50	4.8	3 15	4.3	8 20	1.1	8 35	3.0	●	
14	1 30	4.5	2 5	4.1	8 20	2.0	8 20	2.1	1 35	4.9	4 25	4.7	9 10	0.5	9 30	3.1	●	
15	2 5	4.7	3 20	4.4	9 0	1.3	9 5	2.2	2 20	5.1	5 20	5.0	9 55	-1	10 15	3.1	●	
16	2 40	4.9	4 10	4.8	9 40	0.7	9 50	2.3	3 10	5.3	6 0	5.3	10 40	-5	11 0	3.2	●	
17	3 15	5.1	5 0	5.1	10 15	0.1	10 30	2.4	3 55	5.4	6 45	5.4	11 20	-7	11 40	3.1	●	
18	3 40	5.3	5 50	5.3	10 50	-3	11 10	2.6	4 40	5.5	7 20	5.4	*	*	0 5	-7	●	
19	4 20	5.4	6 40	5.3	11 35	-6	11 50	2.8	5 30	5.5	8 5	5.3	0 15	3.0	0 45	-5	●	
20	4 50	5.4	7 25	5.3	*	*	0 15	-7	6 20	5.3	8 45	5.2	0 55	2.9	1 25	-2	●	
21	5 30	5.4	8 15	5.1	0 20	2.9	0 55	-6	7 15	5.1	9 15	5.0	1 40	2.8	2 10	0.4	●	
22	6 5	5.2	9 5	4.9	0 55	3.1	1 35	-2	8 20	4.7	9 50	4.9	2 25	2.7	2 55	1.1	●	
23	6 55	4.9	9 50	4.7	1 40	3.2	2 20	0.2	9 30	4.3	10 35	4.8	3 25	2.6	3 35	1.8	●	
24	8 5	4.6	10 45	4.5	2 30	3.2	3 15	0.9	10 55	4.0	11 15	4.8	4 45	2.3	4 30	2.4	●	
25	9 30	4.2	11 40	4.4	3 40	3.2	4 20	1.5	*	*	{0 20 3.8}	{11 55 4.8}	6 20	2.0	5 45	3.0	●	
26	11 15	3.9	*	*	5 50	2.8	5 40	2.0	*	*	2 20	3.9	7 35	1.6	7 15	3.3	●	
27	0 15	4.5	0 55	3.9	7 15	2.3	7 15	2.3	0 30	4.8	4 10	4.3	8 25	1.1	8 25	3.5	●	
28	1 5	4.6	2 30	4.2	8 10	1.6	8 15	2.6	1 25	4.9	4 55	4.6	9 15	0.7	9 20	3.5	●	
29	1 45	4.7	3 45	4.4	8 55	1.0	9 0	2.7	2 10	5.0	5 40	4.8	10 0	0.3	10 10	3.4	●	
30	2 25	4.9	4 40	4.7	9 30	0.5	9 45	2.8	3 0	5.1	6 5	5.0	10 35	0.1	10 45	3.3	●	
31	3 0	5.1	5 20	4.9	10 10	0.1	10 20	2.8	3 45	5.2	6 35	5.2	11 5	0.0	11 20	3.2	●	
31	3 30	5.2	6 0	4.9	10 50	-2	10 55	2.9									●	

時刻：中央標準時

基本水準面：平均水面以下 三呎四九

橫須賀港

日	七月								太陰盈虛及位置	八月								太陰盈虛及位置
	高潮				低潮					高潮				低潮				
	午前		午後		午前		午後			午前		午後		午前		午後		
	時刻	潮高	時刻	潮高	時刻	潮高	時刻	潮高		時刻	潮高	時刻	潮高	時刻	潮高	時刻	潮高	
1	h m	ft.	h m	ft.	h m	ft.	h m	ft.	A	h m	ft.	h m	ft.	h m	ft.	h m	ft.	●
2	4 25	5.2	7 0	5.3	11 40	-1	11 50	3.1	5 35	5.5	7 5	5.6	0 5	2.6	0 25	0.5	●	
3	5 0	5.2	7 25	5.3	*	*	0 15	0.0	6 15	5.5	7 30	5.6	0 35	2.3	0 55	0.8	●	
4	5 35	5.2	7 50	5.3	0 20	2.9	0 40	0.2	6 55	5.4	7 50	5.6	1 10	2.1	1 25	1.1	●	
5	6 15	5.1	8 15	5.3	0 50	2.8	1 10	0.4	7 35	5.2	8 5	5.5	1 40	1.9	1 50	1.6	●	
6	7 0	4.9	8 40	5.2	1 25	2.7	1 50	0.7	8 25	4.9	8 30	5.5	2 20	1.8	2 15	2.2	●	
7	7 45	4.7	9 10	5.1	2 5	2.5	2 20	1.2	9 35	4.5	9 5	5.4	3 0	1.8	2 45	2.8	●	
8	8 45	4.4	9 40	5.0	2 50	2.4	2 50	1.7	11 0	4.2	9 50	5.3	4 5	1.8	3 10	3.4	●	
9	9 55	4.1	10 15	5.0	3 45	2.2	3 25	2.3	*	*	{1 30 4.1}	{10 50 5.1}	5 35	1.8	3 10	4.0	●	
10	11 25	3.9	11 0	4.9	5 0	2.1	4 10	2.9	*	*	{1 15 3.9}	{11 45 4.9}	6 40	1.7	5 55	3.6	●	
11	*	*	3 45	4.3	7 55	1.2	8 10	3.8	1 40	5.2	5 10	5.4	9 40	0.6	10 0	3.6	●	
12	0 45	5.0	4 45	4.8	8 55	0.6	9 15	3.8	3 5	5.5	5 35	5.7	10 20	0.3	10 40	3.2	●	
13	1 50	5.2	5 20	5.2	9 50	0.1	10 5	3.6	4 5	5.8	6 5	5.8	11 0	0.2	11 15	2.6	●	
14	2 55	5.4	6 0	5.4	10 35	-3	10 50	3.3	5 0	6.1	6 30	5.8	11 40	0.2	11 50	2.2	●	
15	3 55	5.6	6 35	5.6	11 10	-4	11 30	3.0	5 50	6.2	6 50	5.8	*	*	0 15	0.6	●	
16	4 55	5.7	7 5	5.7	11 55	-4	*	*	6 30	6.1	7 15	5.8	0 20	1.8	0 50	1.0	●	
17	5 45	5.8	7 35	5.6	0 5	2.7	0 35	-2	7 15	5.8	7 40	5.8	1 0	1.6	1 20	1.6	●	
18	6 30	5.7	8 0	5.5	0 45	2.4	1 10	0.3	8 5	5.4	8 0	5.7	1 40	1.5	1 50	2.1	●	
19	7 25	5.4	8 30	5.4	1 25	2.2	1 50	0.8	8 55	4.9	8 25	5.6	2 15	1.6	2 10	2.7	●	
20	8 15	5.1	9 0	5.3	2 10	2.1	2 20	1.5	9 55	4.4	8 50	5.4	3 0	1.8	2 35	3.3	●	
21	9 15	4.6	9 30	5.2	2 55	2.0	2 50	2.2	11 25	4.1	9 25	5.2	4 5	2.0	2 35	3.8	●	
22	10 20	4.2	10 5	5.1	3 50	2.0	3 15	2.8	*	*	10 10	4.9	5 45	2.2	*	*	●	
23	11 50	3.8	10 40	5.0	5 5	2.0	3 30	3.4	*	*	{5 0 4.7}	{11 50 4.7}	7 45	2.1	8 35	4.5	●	
24	*	*	11 35	4.9	6 45	1.8	*	*	*	*	4 55	5.0	8 40	1.8	9 25	4.1	●	
25	*	*	5 0	4.4	8 5	1.5	8 10	4.1	1 25	4.8	5 5	5.2	9 25	1.5	10 0	3.7	●	
26	0 35	4.8	5 5	4.7	9 0	1.2	9 15	4.0	2 50	4.9	5 15	5.5	10 0	1.3	10 25	3.3	●	
27	1 40	4.9	5 30	5.0	9 45	0.8	10 5	3.7	3 45	5.3	5 30	5.6	10 30	1.1	10 50	2.9	●	
28	2 50	5.0	5 55	5.3	10 20	0.6	10 40	3.5	4 25	5.5	5 50	5.8	11 0	1.0	11 20	2.5	●	
29	3 45	5.2	6 10	5.4	10 50	0.4	11 10	3.2	5 0	5.8	6 0	5.8	11 30	1.0	11 45	2.2	●	
30	4 30	5.3	6 35	5.5	11 20	0.4	11 45	2.9	5 30	5.9	6 15	5.9	*	*	0 0	1.2	●	
31	5 0	5.4	6 45	5.6	11 50	0.4	*	*	6 10	5.9	6 30	5.9	0 15	1.8	0 30	1.5	●	

時刻：中央標準時

基本水準面：平均水面以下 三呎四九



橫須賀港

日	九 月								太陰盈虛及位置	十 月								太陰盈虛及位置
	高 潮				低 潮					高 潮				低 潮				
	午 前		午 後		午 前		午 後			午 前		午 後		午 前		午 後		
	時刻	潮高	時刻	潮高	時刻	潮高	時刻	潮高		時刻	潮高	時刻	潮高	時刻	潮高	時刻	潮高	
1	6 45	5.8	6 50	5.9	0 45	1.6	0 55	1.8	7 30	5.8	6 30	6.1	0 55	0.8	1 0	3.1		
2	7 30	5.6	7 10	5.9	1 10	1.3	1 20	2.3	8 25	5.4	7 0	6.0	1 30	0.9	1 30	3.5		
3	8 20	5.2	7 40	5.8	1 50	1.3	1 50	2.8	9 30	5.1	7 25	5.8	2 15	1.2	2 0	4.0	S	
4	9 25	4.8	8 5	5.7	2 30	1.4	2 15	3.4	11 5	4.8	8 10	5.4	3 5	1.6	2 40	4.3	)	
5	11 0	4.5	8 45	5.4	3 30	1.7	2 35	4.0	* * ..	{ <sup>0</sup> 55 <sub>10</sub> 5.0}	{ <sup>4.8</sup> <sub>5.0</sub> }	4 25	2.0	4 30	4.7		)	
6	* * ..	10 5	5.2	5 0	1.9	* * ..			* * ..	2 30	5.0	6 45	2.2	8 0	4.2		S	
7	* * ..	4 0	4.9	7 15	1.8	8 10	4.5		0 20	4.9	3 5	5.3	8 0	2.0	8 45	3.5	P	
8	0 10	5.0	4 10	5.3	8 30	1.5	9 10	3.9	2 0	5.3	3 35	5.5	9 0	1.9	9 25	2.8	E	
9	1 55	5.3	4 30	5.5	9 20	1.2	9 50	3.3	3 15	5.7	4 0	5.7	9 45	1.8	10 0	2.0	E	
10	3 15	5.7	4 55	5.7	10 5	1.0	10 20	2.7	4 10	6.1	4 25	5.9	10 15	1.9	10 40	1.4		
11	4 10	6.1	5 25	5.9	10 45	1.0	11 0	2.1	5 0	6.3	4 45	6.1	10 50	2.2	11 10	1.0	O	
12	5 0	6.3	5 45	6.0	11 20	1.2	11 35	1.6	5 45	6.3	5 15	6.2	11 25	2.4	11 45	0.7	O, E	
13	5 45	6.4	6 5	6.1	11 55	1.5	* * ..		6 25	6.2	5 35	6.2	11 55	2.7	* * ..			
14	6 30	6.3	6 25	6.2	0 0	1.2	0 25	1.9	7 5	6.0	6 0	6.2	0 20	0.7	0 25	3.1		
15	7 10	6.0	6 45	6.1	0 35	1.1	0 55	2.3	7 50	5.6	6 25	6.0	0 50	0.8	0 55	3.4		
16	7 50	5.6	7 5	6.0	1 10	1.1	1 15	2.8	8 35	5.3	6 45	5.8	1 25	1.0	1 20	3.7	N	
17	8 40	5.2	7 25	5.8	1 50	1.3	1 40	3.3	9 25	5.0	7 5	5.5	2 0	1.4	1 45	4.0		
18	9 35	4.7	7 50	5.6	2 30	1.6	2 0	3.7	10 30	4.8	7 30	5.1	2 40	1.8	2 25	4.3		
19	11 0	4.4	8 10	5.3	3 10	2.0	2 15	4.1	11 45	4.8	8 10	4.7	3 30	2.2	3 30	4.5	(, N	
20	* * ..	8 30	4.9	4 20	2.4	* * ..			* * ..	{ <sup>1.0</sup> <sub>11</sub> 0.4.4}	{ <sup>4.8</sup> <sub>4.4</sub> }	4 55	2.6	8 0	4.2		(, A	
21	* * ..	{ <sup>4 5</sup> <sub>11 20</sub> 4.6}	6 40	2.5	8 35	4.5			* * ..	2 0	5.1	6 50	2.7	8 30	3.7		A	
22	* * ..	4 0	5.1	8 0	2.3	9 15	4.0		0 55	4.5	2 35	5.2	8 0	2.6	9 0	3.1		
23	1 25	4.7	4 5	5.3	8 45	2.1	9 35	3.5	2 15	4.8	3 0	5.4	8 45	2.5	9 20	2.6	E	
24	2 40	5.0	4 20	5.5	9 30	1.9	10 0	3.0	3 15	5.2	3 25	5.7	9 25	2.4	9 50	2.0		
25	3 30	5.3	4 30	5.7	10 0	1.8	10 20	2.5	3 55	5.6	3 45	5.8	10 0	2.5	10 20	1.9		
26	4 15	5.7	4 45	5.8	10 30	1.7	10 55	2.0	4 40	5.8	4 10	5.9	10 35	2.6	10 50	0.9	E	
27	4 50	5.9	5 5	6.0	11 5	1.8	11 20	1.6	5 25	6.0	4 35	6.1	11 5	2.8	11 30	0.6	●	
28	5 25	6.1	5 25	6.1	11 30	2.0	11 50	1.2	6 5	6.1	5 0	6.1	11 35	3.0	* * ..			
29	6 0	6.2	5 45	6.1	* * ..	0 5	2.3		6 55	6.0	5 30	6.2	0 0	0.3	0 10	3.3		
30	6 45	6.0	6 5	6.2	0 20	0.9	0 30	2.7	7 45	5.8	6 0	6.1	0 40	0.3	0 50	3.6	S	
31									8 35	5.5	6 30	5.8	1 25	0.5	1 20	3.9		

時刻： 中央標準時

基本水準面： 平均水面以下 三呎四九

橫須賀港

日	十 一 月								太陰盈虛及位置	十 二 月								太陰盈虛及位置
	高 潮				低 潮					高 潮				低 潮				
	午 前		午 後		午 前		午 後			午 前		午 後		午 前		午 後		
	時刻	潮高	時刻	潮高	時刻	潮高	時刻	潮高		時刻	潮高	時刻	潮高	時刻	潮高	時刻	潮高	
1	9 35	5.3	7 15	5.6	2 0	0.9	2 5	4.1	P	10 10	5.2	9 0	4.8	2 40	1.1	3 15	3.5	)
2	10 45	5.1	8 30	5.1	2 55	1.4	3 0	4.2	)	10 55	5.0	10 30	4.6	3 35	1.8	4 45	3.3	E
3	* * ..	{ <sup>0</sup> 35 <sub>10</sub> 5.0}	4 5	1.9	5 25	4.2			11 45	5.0	* * ..		4 45	2.4	6 30	2.8		
4	* * ..	0 55	5.0	5 50	2.3	7 25	3.6		0 0	4.4	0 30	5.0	6 15	2.8	7 40	2.2		
5	0 25	4.8	1 45	5.1	7 20	2.5	8 15	2.8	E	1 45	4.5	1 15	5.1	7 40	3.1	8 30	1.6	
6	2 0	5.0	2 30	5.3	8 25	2.6	8 55	2.1		3 20	4.8	1 55	5.3	8 35	3.3	9 15	1.0	
7	3 10	5.3	3 0	5.6	9 10	2.7	9 40	1.4		4 25	5.1	2 35	5.4	9 25	3.4	10 0	0.6	
8	4 10	5.7	3 30	5.8	9 55	2.8	10 15	0.9		5 10	5.3	3 20	5.6	10 5	3.4	10 35	0.3	
9	5 0	5.8	4 0	5.9	10 25	2.9	10 50	0.5		5 50	5.4	4 0	5.6	10 45	3.5	11 10	0.1	O
10	5 45	5.9	4 30	6.0	11 0	3.1	11 25	0.3	O	6 30	5.5	4 35	5.6	11 20	3.4	11 45	0.1	N
11	6 25	5.8	4 55	6.0	11 35	3.3	11 55	0.3		7 0	5.5	5 5	5.6	11 55	3.4	* * ..		
12	7 5	5.7	5 25	5.9	* * ..	0 5	3.4		N	7 40	5.4	5 45	5.4	0 20	0.2	0 30	3.3	
13	7 45	5.6	5 55	5.8	0 30	0.5	0 40	3.6		8 10	5.4	6 20	5.2	0 50	0.3	1 5	3.3	
14	8 30	5.4	6 25	5.5	1 0	0.7	1 10	3.7		8 40	5.3	6 55	5.0	1 20	0.6	1 45	3.3	A
15	9 10	5.2	6 55	5.2	1 35	1.0	1 50	3.8		9 10	5.2	7 45	4.7	1 50	0.9	2 20	3.2	
16	9 55	5.1	7 30	4.8	2 15	1.4	2 40	3.9	A	9 40	5.1	8 45	4.4	2 30	1.3	3 10	3.1	
17	10 45	5.0	8 55	4.5	2 55	1.8	3 40	4.0		10 15	5.1	9 55	4.2	3 0	1.8	4 15	3.0	E
18	11 30	5.0	10 45	4.2	3 40	2.2	5 50	3.8	(	11 0	5.0	11 25	4.0	3 40	2.3	5 45	2.7	(
19	* * ..	0 15	5.0	5 0	2.6	7 20	3.3			11 40	5.0	* * ..		4 45	2.8	7 0	2.2	
20	0 10	4.2	1 0	5.2	6 35	2.8	8 0	2.7	E	0 55	4.0	0 25	5.1	6 15	3.2	8 0	1.6	
21	1 30	4.4	1 35	5.3	7 45	2.9	8 45	2.1		2 35	4.3	1 5	5.1	8 0	3.4	8 50	1.0	
22	2 50	4.8	2 15	5.4	8 35	3.0	9 20	1.4		4 5	4.7	1 55	5.3	9 0	3.5	9 40	0.4	
23	3 50	5.1	2 45	5.6	9 20	3.1	9 55	0.8		5 0	5.1	2 45	5.4	9 55	3.5	10 20	-1	
24	4 45	5.4	3 25	5.7	10 5	3.2	10 35	0.3		5 45	5.4	3 40	5.6	10 40	3.5	11 10	-3	S
25	5 35	5.7	3 55	5.8	10 45	3.3	11 15	0.0	●	6 20	5.6	4 25	5.7	11 20	3.3	11 45	-5	●
26	6 20	5.8	4 30	5.9	11 30	3.4	11 50	-2	S	7 0	5.7	5 15	5.7	* * ..	0 5	3.2	P	
27	7 0	5.8	5 10	5.9	* * ..	0 5	3.5			7 40	5.6	6 10	5.6	0 20	-4	0 40	3.0	
28	7 50	5.7	5 55	5.8	0 30	-1	0 50	3.6	P	8 15	5.4	7 0	5.4	1 0	-1	1 20	2.8	
29	8 40	5.5	6 45	5.6	1 10	0.2	1 25	3.6		8 45	5.3	8 0	5.1	1 40	0.4	2 10	2.7	
30	9 20	5.3	7 35	5.3	1 50	0.6	2 15	3.6		9 20	5.2	9 5	4.7	2 30	1.0	3 0	2.5	E
31										10 0	5.0	10 15	4.3	3 0	1.7	4 0	2.3	)

時刻： 中央標準時

基本水準面： 平均水面以下 三呎四九



宮古港

日	一 月								太陰盈虛及位置	二 月								太陰盈虛及位置
	高 潮				低 潮					高 潮				低 潮				
	午 前		午 後		午 前		午 後			午 前		午 後		午 前		午 後		
	時刻	潮高	時刻	潮高	時刻	潮高	時刻	潮高		時刻	潮高	時刻	潮高	時刻	潮高	時刻	潮高	
1	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.		
2	11 35 4.3	* * ..	* * ..	* * ..	3 0 2.8	7 0 0.9	* * ..	0 30 4.1	* * ..	* * ..	8 55 0.0							
3	* * ..	0 35 4.4	* * ..	* * ..	8 50 0.0		4 40 3.5	2 35 4.4	9 15 2.7	10 10 -1.1								
4	4 40 3.6	1 35 4.5	8 20 3.4	9 40 -2.2			4 55 3.6	3 30 4.4	10 0 2.3	10 45 0.0								
5	5 5 3.8	2 30 4.7	9 15 3.2	10 20 -3.3			5 10 3.6	4 20 4.4	10 40 1.9	11 20 0.3								
6	5 30 3.7	3 20 4.7	10 0 3.0	11 0 -2.2			5 30 3.7	5 10 4.2	11 20 1.6	11 50 0.7								
7	6 0 3.8	4 10 4.6	10 50 2.7	11 40 0.0			5 50 3.8	5 55 3.8	* * ..	0 0 1.3								
8	6 25 3.8	5 5 4.4	11 35 2.4	* * ..			6 20 3.9	6 40 3.4	0 10 1.1	0 45 1.2								
9	6 50 3.8	5 55 4.1	0 10 0.4	0 20 2.2			6 50 3.9	7 30 3.0	0 30 1.4	1 35 1.1								
10	7 15 3.8	6 50 3.7	0 45 0.8	1 10 1.9			7 10 4.0	8 30 2.6	0 45 1.8	2 25 1.1								
11	7 45 3.8	7 50 3.3	1 15 1.3	2 10 1.8			7 35 3.9	* * ..	0 50 2.1	3 30 1.2								
12	8 15 3.9	9 0 2.8	1 35 1.7	3 10 1.7			8 15 3.8	* * ..	* * ..	5 0 1.2								
13	9 0 3.9	11 0 2.6	1 50 2.1	4 30 1.5			9 5 3.7	* * ..	* * ..	6 45 1.0								
14	9 40 4.0	* * ..	1 45 2.4	5 55 1.3			10 40 3.6	* * ..	* * ..	7 45 0.7								
15	10 30 4.0	* * ..	* * ..	7 20 0.9			5 0 3.2	0 0 3.6	7 30 3.1	8 30 0.5								
16	11 30 4.0	* * ..	* * ..	8 10 0.7			4 10 3.3	1 10 3.7	8 30 2.8	9 5 0.3								
17	* * ..	0 25 4.0	* * ..	8 50 0.4			4 5 3.4	2 5 3.8	9 0 2.6	9 35 0.3								
18	5 0 3.4	1 20 4.1	8 30 3.2	9 25 0.3			4 15 3.5	2 50 3.9	9 30 2.2	10 0 0.2								
19	5 0 3.6	2 10 4.1	9 10 3.1	10 0 0.1			4 30 3.6	3 35 4.0	10 0 1.9	10 35 0.3								
20	5 5 3.6	3 0 4.2	9 45 2.8	10 30 0.1			4 50 3.7	4 15 4.1	10 30 1.6	11 5 0.5								
21	5 25 3.7	3 35 4.2	10 20 2.6	11 0 0.1			5 10 3.7	5 0 4.0	11 5 1.3	11 30 0.8								
22	5 40 3.8	4 15 4.2	11 0 2.4	11 30 0.3			5 30 3.8	5 45 3.8	11 45 1.0	11 45 1.2								
23	6 0 3.8	4 55 4.1	11 30 2.1	11 55 0.5			5 45 3.9	6 30 3.5	* * ..	0 20 0.8								
24	6 20 3.8	5 40 3.9	* * ..	0 0 1.9			6 5 3.9	7 20 3.1	0 5 1.5	1 0 0.7								
25	6 40 3.8	6 30 3.7	0 10 0.8	0 40 1.7			6 30 3.9	8 30 2.7	0 25 1.9	1 50 0.7								
26	7 5 3.8	7 25 3.3	0 45 1.2	1 25 1.5			7 0 3.9	* * ..	0 30 2.3	2 55 0.7								
27	7 35 3.9	8 40 2.9	1 5 1.7	2 20 1.3			7 35 3.8	* * ..	* * ..	4 35 0.7								
28	7 55 3.9	10 25 2.6	1 15 2.1	3 30 1.2			8 45 3.7	* * ..	* * ..	6 35 0.6								
29	8 30 4.0	* * ..	1 30 2.4	5 5 1.0			11 0 3.6	* * ..	* * ..	7 45 0.3								
30	9 30 4.0	* * ..	* * ..	6 40 0.7														
31	11 5 4.0	* * ..	* * ..	8 5 0.3														

時刻： 中央標準時 基本水準面： 平均水面以下 二呎七二  
 約二十分ヲ週期トスル顯著ナル海面ノ升降アリ其ノ升降時ニ一呎以上ニ達ス

宮古港

日	三 月								太陰盈虛及位置	四 月								太陰盈虛及位置
	高 潮				低 潮					高 潮				低 潮				
	午 前		午 後		午 前		午 後			午 前		午 後		午 前		午 後		
	時刻	潮高	時刻	潮高	時刻	潮高	時刻	潮高		時刻	潮高	時刻	潮高	時刻	潮高	時刻	潮高	
1	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.	h m ft.		
2	3 35 3.2	1 50 3.9	8 30 2.4	9 15 0.2			2 45 3.3	2 55 3.7	8 55 1.1	9 25 1.0								
3	3 45 3.2	2 50 4.1	9 10 1.9	9 50 0.3			3 5 3.5	3 45 3.8	9 30 0.7	9 50 1.3								
4	4 0 3.4	3 40 4.1	9 45 1.4	10 20 0.5			3 25 3.8	4 25 3.7	10 0 0.3	10 15 1.5								
5	4 15 3.6	4 20 4.0	10 20 1.0	10 50 0.8			3 45 3.9	5 5 3.6	10 40 0.1	10 40 1.7								
6	4 40 3.7	5 5 3.8	11 0 0.7	11 20 1.2			4 10 4.0	5 45 3.3	11 20 0.0	11 0 2.0								
7	5 0 3.9	5 45 3.6	11 40 0.5	11 40 1.4			4 35 4.1	6 30 3.1	11 50 0.1	11 15 2.2								
8	5 25 4.0	6 25 3.2	* * ..	{ 0 20 0.5 } { 11 50 1.7 }			4 55 4.0	7 20 2.8	* * ..	{ 0 25 0.2 } { 11 30 2.3 }								
9	5 45 4.0	7 10 2.8	* * ..	{ 0 55 0.5 } { 11 55 2.0 }			5 15 3.9	8 30 2.7	* * ..	{ 1 0 0.4 } { 11 45 2.5 }								
10	6 5 3.9	8 25 2.5	* * ..	1 40 0.7			5 40 3.7	* * ..	* * ..	1 50 0.6								
11	6 30 3.8	* * ..	0 0 2.2	2 30 0.9			6 0 3.5	* * ..	* * ..	2 50 0.8								
12	7 0 3.6	* * ..	* * ..	3 50 1.0			6 30 3.2	* * ..	* * ..	4 5 1.1								
13	7 30 3.4	* * ..	* * ..	5 40 1.0			7 0 3.6	* * ..	* * ..	5 40 1.2								
14	10 0 3.1	* * ..	* * ..	7 0 0.9			7 30 3.4	* * ..	* * ..	6 40 1.2								
15	{ 3 20 3.0 } { 11 45 3.1 }	* * ..	7 40 2.7	7 50 0.8			7 0 3.6	* * ..	* * ..	7 20 2.4								
16	2 50 3.1	1 10 3.3	8 15 2.3	8 30 0.6			7 30 3.4	* * ..	* * ..	7 40 1.2								
17	3 0 3.3	2 5 3.5	8 45 2.0	9 5 0.6			10 0 3.1	* * ..	* * ..	7 0 0.9								
18	3 15 3.4	2 50 3.7	9 5 1.5	9 35 0.7			{ 1 0 3.0 } { 11 25 2.8 }	* * ..	* * ..	7 20 2.4								
19	3 30 3.6	3 30 3.9	9 35 1.1	10 5 0.8			1 20 3.2	0 50 3.1	7 40 2.0	7 30 1.2								
20	3 50 3.7	4 15 3.9	10 10 0.7	10 30 1.0			1 45 3.3	1 45 3.3	8 10 1.5	8 15 1.2								
21	4 10 3.8	4 55 3.8	10 45 0.4	10 50 1.3			2 5 3.5	2 40 3.5	8 40 1.0	8 50 1.3								
22	4 30 3.9	5 40 3.6	11 20 0.2	11 20 1.6			2 30 3.7	3 30 3.7	9 15 0.5	9 25 1.5								
23	4 55 4.0	6 30 3.3	* * ..	{ 0 0 0.0 } { 11 40 2.0 }			2 55 3.9	4 10 3.7	9 50 0.1	9 55 1.8								
24	5 20 4.1	7 30 3.0	* * ..	{ 0 45 0.1 } { 11 50 2.3 }			3 20 4.1	5 0 3.7	10 30 -2.2	10 20 2.1								
25	5 45 4.0	9 0 2.7	* * ..	1 30 0.2			3 45 4.2	5 45 3.5	11 5 -4.4	10 50 2.3								
26	6 15 3.9	* * ..	0 0 2.5	2 40 0.4			4 10 4.3	6 45 3.4	11 45 -4.4	11 15 2.5								
27	7 0 3.7	* * ..	* * ..	4 15 0.7			4 40 4.3	7 55 3.1	* * ..	{ 0 25 -2.2 } { 11 40 2.7 }								
28	8 45 3.3	* * ..	* * ..	6 5 0.7			4 55 4.1	9 25 2.9	* * ..	1 15 0.1								
29	{ 2 25 3.0 } { 11 10 3.3 }	* * ..	6 45 2.8	7 20 0.7			6 0 3.8	10 55 2.9	0 10 2.8	2 25 0.4								
30	2 10 3.0	0 55 3.4	7 40 2.2	8 5 0.7			6 0 3.8	10 55 2.9	0 10 2.8	2 25 0.4								
31	2 25 3.2	2 0 3.6	8 15 1.7	8 50 0.8			7 10 3.5	11 45 2.9	1 10 2.8	3 40 0.8								

時刻： 中央標準時 基本水準面： 平均水面以下 二呎七二  
 約二十分ヲ週期トスル顯著ナル海面ノ升降アリ其ノ升降時ニ一呎以上ニ達ス