

JANUARY 1951

DAY	EPIHEMERIS SIDEREAL TIME		☉		♊		♈		♉		♊		♋		♌		♍		♎		♏		♐		♑	
	h	m	s	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	
LONGITUDE at NOON																										
1 M	18 41	19.3	10 16	16.1	22 45	45.5	13 49	49.7	11 6	6.4	21 60	0.0	13 28	28.0	4 47	47.4	2 15	15.8	7 19	19.5	19 25	25.5	19 26	26.7	19 27	27.7
4 T	18 45	15.8	11 17	17.3	22 42	42.7	13 44	44.3	9 44	44.8	23 15	15.3	14 13	13.2	4 58	57.7	2 16	16.9	7 19	19.9	19 26	26.2	19 27	27.7	19 28	28.8
7 W	18 48	12.4	12 18	18.4	22 38	38.2	11 54	54.4	8 24	24.5	24 30	30.7	15 04	4.5	10.1	10.1	2 17	17.9	7 14	14.3	19 26	26.8	19 27	27.7	19 28	28.8
10 W	18 53	9.0	13 18	18.6	22 36	36.0	12 50	50.0	7 7	7.9	25 46	46.0	15 47	5.7	21.5	21.5	2 18	18.7	7 11	11.7	19 27	27.4	19 28	28.8	19 29	29.9
13 S	18 57	5.5	14 20	20.8	22 32	32.8	11 25	25.5	5 57	57.1	27 1.3	1.3	16 34	9.5	33.1	33.1	2 19	19.5	7 9	9.2	19 27	27.9	19 28	28.8	19 29	29.9
16 S	19 1	2.1	15 21.9	22 29	29.7	26 30	30.7	4 54	54.0	28 16.6	16.6	17 22.1	22.1	5 44.8	44.8	2 20	20.2	7 6	6.6	19 28	28.5	19 29	29.4	19 30	30.4	
19 S	19 4 58.6	16 23.1	22 26.5	26.5	11 36.7	36.7	3 59.8	59.8	29 31.9	31.9	18 9.4	9.4	5 56.6	56.6	2 20.7	20.7	7 4.1	4.1	19 28.9	28.9	19 29	29.4	19 30	30.4	19 31	31.4
22 S	19 8 55.2	17 24.3	22 23.3	23.3	16 33.3	33.3	3 15.1	15.1	0=47.2	47.2	18 56.6	56.6	6 8.4	8.4	2 21.2	21.2	7 1.5	1.5	19 29.4	29.4	19 30	30.4	19 31	31.4	19 32	32.4
25 S	19 12 51.7	18 25.5	22 20.1	20.1	11=11.3	11.3	2 40.5	40.5	2 2.5	2.5	19 43.9	43.9	6 20.4	20.4	2 21.5	21.5	6 59.0	59.0	19 29.8	29.8	19 30	30.4	19 31	31.4	19 32	32.4
28 S	19 16 48.3	19 26.6	22 16.9	16.9	25 24.1	24.1	2 15.8	15.8	3 17.7	17.7	20 31.2	31.2	6 32.4	32.4	2 21.6	21.6	6 56.5	56.5	19 30.2	30.2	19 31	31.4	19 32	32.4	19 33	33.4
31 S	19 20 44.9	20 27.8	22 13.8	13.8	9 8 7.7	7.7	2 0.8	0.8	4 33.0	33.0	21 18.5	18.5	6 44.5	44.5	2 21.8	21.8	6 53.9	53.9	19 30.5	30.5	19 31	31.4	19 32	32.4	19 33	33.4
1 M	19 24 41.4	21 28.9	22 10.6	10.6	22 24.8	24.8	1 56.1	56.1	5 48.2	48.2	2 5.7	5.7	6 56.7	56.7	2 21.8	21.8	6 51.5	51.5	19 30.8	30.8	19 31	31.4	19 32	32.4	19 33	33.4
4 M	19 28 38.0	22 30.2	22 7.4	7.4	5 15 15.0	15.0	1D56.1	56.1	7 3.5	3.5	22 53.0	53.0	7 9.0	9.0	2R21.7	21.7	6 49.0	49.0	19 31.1	31.1	19 32	32.4	19 33	33.4	19 34	34.4
7 M	19 32 34.5	23 31.2	22 4.2	4.2	17 43.3	43.3	2 9.2	9.2	8 18.7	18.7	23 40.3	40.3	7 21.5	21.5	2 21.5	21.5	6 46.6	46.6	19 31.4	31.4	19 32	32.4	19 33	33.4	19 34	34.4
10 M	19 36 31.1	24 32.4	22 1.1	1.1	29 54.5	54.5	2 27.7	27.7	9 33.9	33.9	24 27.6	27.6	7 33.9	33.9	2 21.2	21.2	6 44.1	44.1	19 31.6	31.6	19 32	32.4	19 33	33.4	19 34	34.4
13 M	19 40 27.7	25 33.5	21 57.9	57.9	11 54 54.0	54.0	2 57.0	57.0	10 49.1	49.1	25 14.9	14.9	7 46.4	46.4	2 20.8	20.8	6 41.7	41.7	19 31.8	31.8	19 32	32.4	19 33	33.4	19 34	34.4
16 M	19 44 24.2	26 34.6	21 54.7	54.7	23 46.8	46.8	2 44.4	44.4	12 4.3	4.3	26 2.2	2.2	8 29.3	29.3	2 20.2	20.2	6 39.3	39.3	19 31.9	31.9	19 32	32.4	19 33	33.4	19 34	34.4
19 M	19 48 20.8	27 35.6	21 51.5	51.5	5 37 37.3	37.3	4 1.4	1.4	13 19.5	19.5	26 48.4	48.4	8 11.7	11.7	2 19.6	19.6	6 36.9	36.9	19 32.0	32.0	19 33	33.4	19 34	34.4	19 35	35.4
22 M	19 52 17.3	28 36.7	21 48.4	48.4	17 29.6	29.6	4 43.4	43.4	14 34.6	34.6	27 36.7	36.7	8 24.5	24.5	2 18.8	18.8	6 34.6	34.6	19 32.1	32.1	19 33	33.4	19 34	34.4	19 35	35.4
25 M	19 56 13.9	29 37.7	21 45.2	45.2	29 26.7	26.7	5 29.9	29.9	15 49.7	49.7	28 23.9	23.9	8 37.3	37.3	2 18.0	18.0	6 32.3	32.3	19 32.1	32.1	19 33	33.4	19 34	34.4	19 35	35.4
28 M	20 0 10.4	0=38.8	21 42.0	42.0	11 30 30.9	30.9	6 20.6	20.6	17 4.8	4.8	29 11.2	11.2	8 50.2	50.2	2 17.0	17.0	6 29.9	29.9	19 32.1	32.1	19 33	33.4	19 34	34.4	19 35	35.4
31 M	20 4 7.0	1 39.8	21 38.8	38.8	23 43.8	43.8	7 14.9	14.9	18 19.9	19.9	29 58.4	58.4	9 3.2	3.2	2 15.9	15.9	6 27.7	27.7	19 32.0	32.0	19 33	33.4	19 34	34.4	19 35	35.4
1 W	20 8 3.6	2 40.8	21 35.7	35.7	6 6 6.2	6.2	8 12.5	12.5	19 35.0	35.0	0 45 45.6	45.6	9 16.2	16.2	2 14.7	14.7	6 25.4	25.4	19 32.1	32.1	19 33	33.4	19 34	34.4	19 35	35.4
4 W	20 12 0.1	3 41.8	21 32.5	32.5	18 38.8	38.8	9 13.2	13.2	20 50.0	50.0	1 32.9	32.9	9 29.3	29.3	2 13.4	13.4	6 23.2	23.2	19 31.9	31.9	19 32	32.4	19 33	33.4	19 34	34.4
7 W	20 15 56.7	4 42.8	21 29.3	29.3	1 21 21.9	21.9	10 16.6	16.6	22 5.1	5.1	2 20.1	20.1	9 42.5	42.5	2 12.0	12.0	6 21.0	21.0	19 31.7	31.7	19 32	32.4	19 33	33.4	19 34	34.4
10 W	20 19 53.2	5 43.8	21 26.1	26.1	14 16.1	16.1	11 22.4	22.4	23 20.1	20.1	3 7.3	7.3	9 55.7	55.7	2 10.5	10.5	6 18.8	18.8	19 31.6	31.6	19 32	32.4	19 33	33.4	19 34	34.4
13 W	20 23 49.8	6 44.8	21 22.9	22.9	27 22.2	22.2	12 30.6	30.6	24 35.1	35.1	3 54.5	54.5	10 9.0	9.0	2 8.9	8.9	6 16.7	16.7	19 31.4	31.4	19 32	32.4	19 33	33.4	19 34	34.4
16 W	20 27 46.3	7 45.7	21 19.8	19.8	10=41.1	41.1	13 40.6	40.6	25 50.1	50.1	4 41.6	41.6	10 22.3	22.3	2 7.2	7.2	6 14.6	14.6	19 31.1	31.1	19 32	32.4	19 33	33.4	19 34	34.4
19 W	20 31 42.9	8 46.7	21 16.6	16.6	24 14.3	14.3	14 52.9	52.9	27 5.0	5.0	5 28.8	28.8	10 35.7	35.7	2 5.4	5.4	6 12.5	12.5	19 30.9	30.9	19 31	31.4	19 32	32.4	19 33	33.4
22 W	20 35 39.5	9 47.6	21 13.4	13.4	8 27 27.2	27.2	16 6.7	6.7	28 20.0	20.0	6 16.0	16.0	10 49.2	49.2	2 3.5	3.5	6 10.5	10.5	19 30.5	30.5	19 31	31.4	19 32	32.4	19 33	33.4
25 W	20 39 36.0	10 48.5	21 10.2	10.2	22 6.6	6.6	17 22.2	22.2	29 34.9	34.9	7 3.1	3.1	11 27.2	27.2	2 1.5	1.5	6 8.4	8.4	19 30.2	30.2	19 31	31.4	19 32	32.4	19 33	33.4

DECLINATION at NOON																																					
DAY	h	m	s	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o											
1 M	18 41	19.3	23S 3.1	23S 52.5	7S 12.1	20S 29.2	22S 48.1	10S 45.1	1N 10.7	23N 34.4	6S 6.4	23N 10.4	18 45	15.8	22 46.9	2 56.3	23 49.1	20 10.8	22 13.3	17 12.2	10 32.3	1 10.3	23 34.8	6 7.0	23 12.1	18 48	48.8										
4 T	18 53	9.0	22 46.9	2 56.3	23 49.1	20 10.8	22 13.3	17 12.2	10 32.3	1 10.3	23 34.8	6 7.0	23 12.1	18 45	15.8	22 46.9	2 56.3	23 49.1	20 10.8	22 13.3	17 12.2	10 32.3	1 10.3	23 34.8	6 7.0	23 12.1	18 48	48.8									
7 W	18 57	5.5	22 43.7	2 53.3	24 49.1	20 9.9	21 32.4	16 28.0	10 19.1	1 10.3	23 35.2	6 7.4	23 13.8	18 45	15.8	22 43.7	2 53.3	24 49.1	20 9.9	21 32.4	16 28.0	10 19.1	1 10.3	23 35.2	6 7.4	23 13.8	18 45	15.8									
10 W	19 1	2.1	22 40.6	2 50.6	25 49.1	20 8.9	20 45.7	15 42.3	10 5.6	1 10.7	23 35.7	6 7.7	23 15.6	18 42	15.8	22 40.6	2 50.6	25 49.1	20 8.9	20 45.7	15 42.3	10 5.6	1 10.7	23 35.7	6 7.7	23 15.6	18 42	15.8									
13 W	19 4 58.6	22 37.3	3 7.6	3N 15.4	20 34.1	19 53.6	14 55.2	9 51.7	1 11.5	23 36.1	6 7.9	23 17.3	18 39	15.8	22 37.3	3 7.6	3N 15.4	20 34.1	19 53.6	14 55.2	9 51.7	1 11.5	23 36.1	6 7.9	23 17.3	18 39	15.8										
16 W	19 8 55.2	22 34.2	3 11.3	11 11.4	20 59.0	18 56.3	14 6.7	9 37.6	1 12.5	23 36.4	6 7.9	23 19.1	18 36	15.8	22 34.2	3 11.3	11 11.4	20 59.0	18 56.3	14 6.7	9 37.6	1 12.5	23 36.4	6 7.9	23 19.1	18 36	15.8										
19 W	19 12 51.7	22 31.1	3 15.3	15 27.5	21 54.1	13 17.1	9 16.1	1 14.2	23 36.8	6 7.9	23 20.8	18 33	15.8	22 31.1	3 15.3	15 27.5	21 54.1	13 17.1	9 16.1	1 14.2	23 36.8	6 7.9	23 20.8	18 33	15.8	22 31.1	3 15.3	15 27.5	21 54.1	13 17.1	9 16.1	1 14.2	23 36.8	6 7.9	23 20.8	18 33	15.8
22 W	19 16 48.3	22 28.0	3 19.3	19 32.8	16 17.4	12 26.3	9 8.4	1 16.1	23 37.2	6 7.7	23 22.6	18 30	15.8	22 28.0	3 19.3	19 32.8	16 17.4	12 26.3	9 8.4	1 16.1	23 37.2	6 7.7	23 22.6	18 30	15.8	22 28.0	3 19.3	19 32.8	16 17.4	12 26.3	9 8.4	1 16.1	23 37.2	6 7.7	23 22.6	18 30	15.8
25 W	19 20 44.9	22 25.0	3 23.3	23 30.4	15 36.5	11 34.4	8 53.5	1 18.4	23 37.5	6 7.4	23 24.4	18 27	15.8	22 25.0	3 23.3	23 30.4	15 36.5	11 34.4	8 53.5	1 18.4	23 37.5	6 7.4	23 24														

MAY 1951

DAY	EPHEMERIS SIDEREAL TIME		LONGITUDE at NOON											
	h	m s	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
1 T	2 34	25.9	10v18.7	16x24.3	17x25.1	0v11.5	18x58.6	15v32.2	2v10.8	26v10.4	6s23.7	17=33.8	17a25.0	
2 W	2 38	22.5	11 15.2	16 17.9	12 58.2	29 18.4	21 17.8	16 59.3	2 36.5	26 5.2	6 28.5	17 30.8	17 25.1	
3 T	2 42	19.0	12 13.3	16 14.7	15 28.0	28 57.9	22 17.2	17 42.8	2 49.3	26 2.7	6 31.0	17 29.3	17 25.2	
4 F	2 46	15.6	13 13.3	16 14.7	15 28.0	28 57.9	22 17.2	17 42.8	3 1.9	26 0.3	6 33.4	17 27.9	17 25.4	
5 S	2 50	12.2	14 11.5	16 11.6	7v48.4	28 41.7	23 36.5	18 26.3						
6 S	2 54	8.7	15 9.6	16 8.4	20 0.3	28 30.1	24 45.7	19 9.7	3 14.5	25 58.1	6 36.0	17 26.5	17 25.5	
7 M	2 58	5.3	16 7.7	16 5.2	2x4.7	28 23.1	25 54.8	19 53.0	3 27.1	25 55.9	6 38.5	17 25.1	17 25.7	
8 T	3 2 1.8	17 5.8	16 2.0	14 2.8	28 20.8	27 3.7	20 36.3	3 39.5	3 39.5	25 53.8	6 41.1	17 23.7	17 26.0	
9 W	3 5 58.4	18 3.8	15 58.9	25 56.2	28D23.2	28 12.5	21 19.5	3 51.9	3 51.9	25 51.7	6 43.8	17 22.3	17 26.2	
10 T	3 9 54.9	19 1.8	15 55.7	7v47.3	28 30.3	29 21.2	22 2.7	4 4.2	4 4.2	25 49.6	6 46.5	17 21.0	17 26.5	
11 F	3 13 51.5	19 59.8	15 52.5	19 38.9	28 42.0	0v29.8	22 45.9	4 16.4	4 16.4	25 48.0	6 49.2	17 19.6	17 26.8	
12 S	3 17 48.0	20 57.8	15 49.3	1v34.9	28 58.2	1 38.2	23 28.9	4 28.6	4 28.6	25 46.3	6 51.9	17 18.3	17 27.1	
13 S	3 21 44.6	21 55.7	15 46.1	13 39.7	29 18.9	2 46.5	24 12.0	4 40.6	4 40.6	25 44.7	6 54.7	17 17.0	17 27.5	
14 M	3 25 41.2	22 53.6	15 43.0	25 58.1	29 43.9	3 54.7	24 54.9	4 52.6	4 52.6	25 43.2	6 57.5	17 15.7	17 27.9	
15 T	3 29 37.7	23 51.4	15 39.8	8v35.1	0v13.2	5 2.7	25 37.9	5 5 4.5	5 5 4.5	25 41.7	7 0.3	17 14.5	17 28.3	
16 W	3 33 34.3	24 49.3	15 36.6	21 35.5	0 46.5	6 10.5	26 30.9	5 16.3	5 16.3	25 40.4	7 3.2	17 13.3	17 28.7	
17 T	3 37 30.8	25 47.1	15 33.4	5 30.0	2 23.7	7 18.2	27 3.5	5 28.1	5 28.1	25 39.2	7 5.1	17 12.0	17 29.1	
18 F	3 41 27.4	26 44.8	15 30.3	18 58.5	2 49.9	8 25.8	27 46.3	5 39.7	5 39.7	25 38.1	7 9.0	17 10.9	17 29.7	
19 S	3 45 23.9	27 42.6	15 27.1	3v24.4	2 49.7	9 33.1	28 29.0	5 51.3	5 51.3	25 37.0	7 12.0	17 9.7	17 30.2	
20 S	3 49 20.5	28 40.4	15 23.9	18 13.6	3 38.1	10 40.4	29 11.7	6 2 28	6 2 28	25 36.1	7 15.0	17 8.6	17 30.8	
21 M	3 53 17.0	29 38.2	15 20.7	28 11.5	4 27.0	11 47.5	29 54.3	6 14.1	6 14.1	25 35.3	7 18.0	17 7.5	17 31.4	
22 W	3 57 13.6	30 35.7	15 17.6	18 32.6	5 25.2	12 54.3	0x36.9	6 25.4	6 25.4	25 34.6	7 21.1	17 6.4	17 32.0	
23 T	4 1 10.2	31 33.4	15 14.6	3 641.6	6 23.7	14 1.0	1 19.4	6 36.6	6 36.6	25 34.0	7 24.1	17 5.3	17 32.7	
24 T	4 5 6.7	2 31.0	15 11.2	18 36.8	7 25.4	15 7.6	2 1.8	6 47.7	6 47.7	25 33.5	7 27.2	17 4.2	17 33.3	
25 F	4 9 3.3	3 28.7	15 8.0	3=11.1	8 30.1	16 13.9	2 44.3	6 58.7	6 58.7	25 33.0	7 30.4	17 3.2	17 34.0	
26 S	4 12 59.9	4 26.3	15 4.8	17 20.6	9 37.9	17 20.1	3 26.6	7 9.6	7 9.6	25 32.7	7 33.5	17 2.2	17 34.7	
27 S	4 16 56.4	5 23.9	15 1.7	1x4.8	10 48.6	18 26.1	4 8.9	7 20.4	7 20.4	25 32.5	7 36.7	17 1.2	17 35.5	
28 M	4 20 53.0	6 21.4	14 58.5	14 24.5	12 2.1	19 31.9	4 51.2	7 31.1	7 31.1	25 32.4	7 39.9	17 0.3	17 36.2	
29 T	4 24 49.5	7 19.0	14 55.3	17 23.5	13 18.5	20 37.5	5 33.4	7 41.7	7 41.7	25 32.4	7 43.1	16 59.4	17 37.0	
30 W	4 28 46.1	8 16.5	14 52.1	10v4.7	14 37.7	21 42.9	6 15.6	7 52.2	7 52.2	25D32.5	7 46.3	16 58.5	17 37.8	
31 T	4 32 42.6	9 14.1	14 49.0	22 32.1	15 59.5	22 48.1	6 57.7	8 2.6	8 2.6	25 32.7	7 49.6	16 57.6	17 38.7	

DAY	EPHEMERIS SIDEREAL TIME		DECLINATION at NOON											
	h	m s	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
1 T	2 34	25.9	14N55.1	5S22.0	5S 0.8	11N 3.7	24N55.3	18N29.8	0S 8.3	3N48.4	23N36.7	5S20.3	23N49.7	
4 F	2 38	22.5	15 15.8	25 25.7	25 22.0	9 53.0	25 16.8	17 9.0	0N 6.6	3 51.0	23 36.4	5 18.6	23 48.1	
7 M	2 58	5.3	16 40.2	5 29.4	15 24.0	9 1.9	25 32.1	17 46.6	0 21.2	3 53.3	23 36.0	5 17.1	23 48.5	
10 T	3 9 54.9	17 29.1	5 33.1	27 56.1	8 32.9	25 41.3	18 22.6	0 35.6	0 35.6	3 55.2	23 35.6	5 15.6	23 47.7	
13 S	3 21 44.6	18 15.3	5 36.8	19 22.2	8 26.4	25 44.3	18 57.0	0 49.6	0 49.6	3 56.7	23 35.1	5 14.1	23 46.9	
16 W	3 33 34.3	18 58.8	5 40.5	2 55.4	8 41.1	25 41.2	19 29.8	1 3.3	1 3.3	3 57.9	23 34.7	5 12.8	23 46.1	
19 S	3 45 23.9	19 39.4	5 44.2	16S 7.3	9 14.8	25 32.0	20 0.8	1 16.6	1 16.6	3 58.7	23 34.2	5 11.5	23 45.1	
22 T	3 57 13.6	20 27.0	5 47.9	27 56.9	10 5.1	25 21.6	20 20.8	1 29.7	1 29.7	3 59.1	23 33.7	5 10.3	23 44.1	
25 F	4 9 3.3	21 14.7	5 51.6	22 45.1	11 8.6	24 56.2	20 57.6	1 42.3	1 42.3	3 59.2	23 33.2	5 9.2	23 43.0	
28 M	4 20 53.0	22 17.0	5 55.3	6 13.4	12 25.8	24 29.9	21 23.3	1 54.6	1 54.6	3 58.9	23 32.6	5 8.2	23 41.8	
31 T	4 32 42.6	23 15.0	5 58.9	11N35.5	13 51.4	23 58.3	21 47.2	2 6.4	2 6.4	3 58.2	23 32.0	5 7.3	23 40.6	

JUNE 1951

DAY	EPHEMERIS SIDEREAL TIME		LONGITUDE at NOON											
	h	m s	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
1 F	4 36	39.2	10x11.6	14x45.8	4v48.5	17v24.1	23v53.1	7x39.8	8v12.9	25v33.0	7s52.9	16=56.8	17a39.5	
2 S	4 40	35.8	11 9.1	14 42.6	16 56.7	18 51.3	24 57.9	8 21.8	8 23.0	25 33.4	7 56.2	16R59.9	17 40.4	
3 S	4 44	32.3	12 6.6	14 39.4	28 58.5	20 21.2	26 2.4	9 3.8	9 3.8	25 33.9	7 59.5	16 55.1	17 41.3	
4 M	4 48	28.9	13 4.1	14 36.3	10x55.6	21 53.7	27 6.8	9 45.7	8 43.0	25 34.5	8 2.9	16 54.4	17 42.3	
5 T	4 52	25.4	14 1.5	14 33.1	22 49.2	23 28.9	28 10.9	10 27.6	8 52.8	25 35.2	8 5.2	16 53.7	17 43.2	
6 W	4 56	22.0	14 59.0	14 29.9	4s40.7	24 25.1	29 14.7	11 24.7	9 2.5	25 36.0	9 8.5	16 53.0	17 44.2	
7 T	5 0 18.6	15 56.4	14 28.7	16 31.8	26 46.9	0a18.3	11 51.2	9 12.1	9 12.1	25 36.9	8 13.0	16 52.3	17 45.2	
8 F	5 4 15.1	16 53.8	14 23.6	18 24.8	28 29.7	1 21.7	12 32.9	9 21.6	9 21.6	25 37.9	8 16.4	16 51.6	17 46.2	
9 S	5 8 11.7	17 51.2	14 20.4	10a21.9	0x15.2	2 24.8	13 14.6	9 30.9	9 30.9	25 39.0	8 19.9	16 51.0	17 47.3	
10 S	5 12 8.2	18 48.6	14 17.2	22 27.4	2 3.1	3 27.7	13 56.3	9 40.2	9 40.2	25 40.3	8 23.4	16 50.5	17 48.4	
11 M	5 16 4.8	19 46.0	14 14.0	4v45.0	3 53.6	4 30.2	14 37.9	9 49.3	9 49.3	25 41.6	8 26.8	16 49.9	17 49.5	
12 T	5 20 1.3	20 43.3	14 10.8	17 19.6	5 46.5	5 32.5	15 19.4	9 58.3	9 58.3	25 43.1	8 30.3	16 49.4	17 50.7	
13 W	5 23 57.9	21 40.7	14 7.7	0=15.7	7 41.7	6 34.5	16 0.9	10 7.1	10 7.1	25 44.6	8 33.8	16 48.9	17 51.8	
14 T	5 27 54.5	22 38.0	14 4.5	13 37.7	9 39.3	7 36.1	16 42.3	10 15.8	10 15.8	25 46.2	8 37.3	16 48.4	17 53.0	
15 F	5 31 51.0	23 35.3	14 1.3	27 28.5	11 39.1	8 37.5	17 23.7	10 24.4	10 24.4	25 47.9	8 40.8	16 48.0	17 54.2	
16 S	5 35 47.6	24 32.5	13 58.1	17 14.8	13 41.0	9 38.5	18 5.0	10 32.8	10 32.8	25 49.7	8 44.4	16 47.6	17 55.4	
17 S	5 39 44.1	25 29.8	13 55.0	26 35.6	15 44.9	10 39.2	18 46.3	10 41.2	10 41.2	25 51.6	8 47.9	16 47.2	17 56.6	
18 M	5 43 40.7	26 27.1	13 51.8	11v43.3	17 50.5	11 39.5	19 27.6	10 49.3	10 49.3	25 53.6	8 51.4	16 46.9	17 57.8	
19 T	5 47 37.3	27 24.3	13 48.6	27 2.2	19 57.7	12 39.5	20 8.7	10 57.4	10 57.4	25 55.8	8 55.0	16 46.6	17 59.1	
20 W	5 51 33.8	28 21.5	13 45.4	12v20.8	22 6.3	13 39.0	20 49.1	11 5.3	11 5.3	25 58.0	8 58.6	16 46.3	18 0.4	
21 F	5 55 30.4	29 18.8	13 42.3	18 18.0	14 2.8	14 38.3	21 31.0	12 3.0	12 3.0	26 0.2	9 2.1	16 46.1	18 1.7	
22 F	5 59 26.9	0=16.0	13 39.1	12=14.8	26 28.5	15 37.2	22 12.0	11 20.7	11 20.7	26 2.6	9 5.7	16 45.8	18 3.1	
23 S	6 3 23.5	1 13.2	13 35.9	26 35.4	28 37.6	16 35.6	22 53.1	11 28.1	11 28.1	26 5.1	9 9.3	16 45.7	18 4.4	
24 S	6 7 20.1	2 10.4	13 32.7	10x27.6	0s49.0	17 33.7	23 34.0	11 35.5	11 35.5	26 7.7	9 12.9	16 45.5	18 5.8	
25 M	6 11 16.6	3 7.6	13 29.6	23 52.3	3 0.4	18 31.3	24 14.9	11 42.7	11 42.7	26 10.4	9 16.5	16 45.4	18 7.2	
26 T	6 15 13.2	4 4.9	13 26.4	6v52.2	5 11.8	19 28.5	24 55.8	11 49.7	11 49.7	26 13.1	9 20.1	16 45.3	18 8.6	
27 W	6 19 9.7	5 2.1	13 23.2	19 31.2	7 22.2	20 25.2	25 36.7	11 56.6	11 56.6	26 16.0	9 23.7	16 45.2	18 10.0	
28 F	6 23 6.3	5 59.3	13 20.0	1v53.7	9 32.1	21 17.5	26 17.5	12 3.9	12 3.9	26 18.9	9 27.3	16 45.2	18 11.4	

SEPTEMBER 1951

DAY	EPIHEMERIS SIDEREAL TIME			♈		♉		♊		♋		♌		♍		♎		♏		♐		
	h	m	s	o	'	o	'	o	'	o	'	o	'	o	'	o	'	o	'	o	'	
LONGITUDE at NOON																						
1 S	10 39 22.5	8 17 14.7	9 53 55.5	7 50 51.0	6 30 3.0	11 36 7.7	9 01 0.6	12 53 7.7	2 55 5.5	12 55 7.5	17 48 7.7	20 5 8										
2 S	10 43 19.0	9 12.9	9 57.4	20 33.5	5R 10.5	11R 0.1	9 38.8	12R 48.3	2 12.6	12 59.9	17 50.6	20 7.7										
3 M	10 47 15.6	10 11.0	9 40.2	3 30.5	4 21.5	10 23.1	10 17.0	12 42.8	2 19.7	13 2.3	17 52.5	20 9.5										
4 T	10 51 12.1	11 9.1	9 44.0	0 16.1	3 37.3	9 46.0	10 55.1	12 31.1	2 26.7	13 4.6	17 54.3	20 11.2										
5 W	10 55 8.7	12 7.3	9 40.8	0 16.1	3 37.3	9 46.0	10 55.1	12 31.1	2 26.7	13 4.6	17 54.3	20 11.2										
6 T	10 59 5.3	13 5.5	9 37.6	13 43.8	2 27.0	8 32.4	12 11.2	12 25.3	2 40.9	13 9.0	17 58.1	20 14.7										
7 F	11 3 5.8	14 3.7	9 34.5	27 34.5	2 27.7	7 56.5	12 49.2	12 19.2	2 48.1	13 11.2	18 0.0	20 18.2										
8 S	11 7 58.4	15 2.0	9 31.3	11 35.2	1 46.6	7 21.4	13 27.1	12 12.9	2 55.3	13 13.4	18 1.9	20 18.2										
9 S	11 10 54.9	16 0.3	9 28.1	25 46.3	1 39.1	6 47.4	14 5.1	12 6.5	3 2.4	13 15.4	18 3.9	20 19.9										
10 T	11 14 51.5	16 58.6	9 24.9	10 51.1	1D 40.5	6 14.6	14 42.9	12 0.0	3 9.7	13 17.5	18 5.9	20 21.6										
11 T	11 18 48.0	17 56.9	9 21.8	24 28.6	1 51.0	5 43.3	15 20.8	11 53.4	3 16.9	13 19.5	18 7.8	20 23.3										
12 W	11 22 44.6	18 55.2	9 18.6	8 53.2	2 0.6	5 13.7	15 58.8	11 46.6	3 24.1	13 21.4	18 9.8	20 25.0										
13 T	11 26 41.1	19 53.6	9 15.4	23 14.5	2 39.2	4 45.8	16 16.4	11 39.7	3 31.4	13 23.4	18 11.8	20 26.7										
14 F	11 30 37.7	20 52.0	9 12.2	7X 28.0	3 18.6	4 19.9	17 34.1	11 32.8	3 38.7	13 25.2	18 13.9	20 28.3										
15 S	11 34 34.2	21 50.5	9 9.0	21 29.2	4 2.4	3 56.1	17 51.8	11 25.7	3 46.0	13 27.0	18 15.9	20 30.0										
16 S	11 38 30.8	22 48.9	9 5.9	5Y 14.4	4 56.2	3 34.4	18 29.5	11 18.5	3 53.3	13 28.8	18 17.9	20 31.6										
17 M	11 42 27.3	23 47.4	9 2.7	18 40.8	5 57.5	3 15.0	19 7.1	11 11.2	4 0.6	13 30.5	18 20.0	20 33.2										
18 T	11 46 23.9	24 46.0	8 59.5	1 47.1	7 5.8	2 58.0	19 44.7	11 3.8	4 8.0	13 32.2	18 22.1	20 34.8										
19 W	11 50 20.5	25 44.5	8 56.3	14 33.6	8 20.5	2 43.3	20 22.3	10 56.3	4 15.3	13 33.9	18 24.2	20 36.4										
20 T	11 54 17.0	26 43.1	8 53.2	27 2.0	9 40.9	2 31.1	20 59.8	10 48.8	4 22.7	13 35.5	18 26.3	20 38.0										
21 F	11 58 13.6	27 41.8	8 50.0	9X 15.0	11 36.5	2 21.3	21 37.3	10 41.1	4 30.1	13 37.0	18 28.4	20 39.5										
22 S	12 2 10.1	28 40.5	8 46.8	21 16.4	12 8.5	2 13.9	22 14.8	10 33.4	4 37.4	13 38.5	18 30.5	20 41.1										
23 S	12 6 6.7	29 39.2	8 43.6	35 01.0	14 10.6	2 9.1	22 52.2	10 25.7	4 44.9	13 40.0	18 32.7	20 42.6										
24 M	12 10 3.2	30 38.0	8 40.4	15 2.5	15 47.9	2 6.6	23 29.6	10 17.9	4 52.3	13 41.4	18 34.8	20 44.1										
25 T	12 13 59.8	31 36.8	8 37.3	26 5.7	17 27.9	2 6.5	24 7.0	10 10.0	5 9.9	13 42.7	18 36.9	20 45.6										
26 W	12 17 56.3	32 35.8	8 34.1	8 57.6	19 10.3	2D 8.7	24 44.3	10 2.1	5 7.1	13 44.0	18 39.1	20 47.1										
27 T	12 21 52.9	33 34.5	8 30.9	21 9.7	20 54.4	2 13.3	25 21.6	9 54.1	5 14.5	13 45.3	18 41.3	20 48.6										
28 F	12 25 49.4	34 33.4	8 27.6	3 36.3	22 40.0	2 20.2	25 58.6	9 46.1	5 21.9	13 46.5	18 43.5	20 50.0										
29 S	12 29 46.0	35 32.3	8 24.6	16 20.1	24 26.6	2 29.3	26 36.0	9 38.1	5 29.3	13 47.6	18 45.7	20 51.4										
30 S	12 33 42.5	36 31.3	8 21.4	29 22.1	26 14.0	2 40.5	27 13.2	9 30.1	5 36.8	13 48.7	18 47.9	20 52.8										

DAY	EPIHEMERIS SIDEREAL TIME			♈		♉		♊		♋		♌		♍		♎		♏		♐		
	h	m	s	o	'	o	'	o	'	o	'	o	'	o	'	o	'	o	'	o	'	
DECLINATION at NOON																						
1 S	10 39 22.5	8N 28.9	7S 51.8	8N 48.4	5N 46.6	OS 41.2	19N 3.9	3N 38.4	1N 8.5	23N 9.1	5S 30.6	22N 51.4										
2 S	10 43 19.0	9 12.2	7 51.1	7 95.7	9 8.5	19 34.9	3 1.4	0 59.9	0 35.1	23 7.5	5 35.8	22 50.1										
3 M	10 47 15.6	6 16.4	7 58.9	24 38.7	8 49.1	ON 34.9	18 3.4	3 23.9	0 51.3	23 7.9	5 37.2	22 48.8										
4 T	10 51 12.1	5 8.7	8 2.5	27 36.9	9 50.8	1 20.8	17 31.7	3 16.0	0 42.7	23 7.4	5 37.4	22 47.6										
5 W	10 55 8.7	4 0.2	8 6.1	15 12.3	10 19.9	2 8.3	16 59.1	3 7.6	0 34.0	23 6.8	5 37.2	22 46.5										
6 T	10 59 5.3	2 41.2	8 9.7	4N 9.5	10 12.7	2 55.1	16 25.6	2 59.0	0 25.3	23 5.9	5 42.1	22 45.4										
7 F	11 3 5.8	1 51.6	8 13.3	20 45.2	9 29.9	3 39.0	15 51.2	2 50.0	0 16.5	23 6.4	5 42.2	22 44.4										
8 S	11 7 58.4	0 31.7	8 16.9	28 17.9	8 15.5	4 18.5	15 16.0	2 40.8	0 7.8	23 5.5	5 46.9	22 43.5										
9 S	11 10 54.9	OS 38.4	8 20.5	9 52.2	4 38.5	5 19.6	14 40.1	2 31.5	OS 38.4	23 4.9	5 51.9	22 41.8										
10 T	11 14 51.5	1 48.7	8 24.0	10 42.9	5 19.6	5 19.6	14 3.6	2 22.0	0 9.8	23 4.9	5 51.9	22 41.8										

OCTOBER 1951

DAY	EPIHEMERIS SIDEREAL TIME			♈		♉		♊		♋		♌		♍		♎		♏		♐		
	h	m	s	o	'	o	'	o	'	o	'	o	'	o	'	o	'	o	'	o	'	
LONGITUDE at NOON																						
1 M	12 37 39.1	7 30 3.3	8 18 18.2	12 42 9.5	28 17 8	2 53 8	27 50 3	9 12 9	5 44 4	13 58 8	18 50 1	20 54 2										
2 T	12 41 35.6	8 29.3	8 15.0	28 42.5	29 49.9	3 9.2	28 27.4	9R 13.9	5 51.6	13 59.8	18 52.3	20 55.6										
3 W	12 45 32.2	9 28.4	8 11.8	10 11.1	1 37.9	3 26.6	29 4.4	9 5.8	5 59.0	13 51.7	18 54.5	20 56.9										
4 T	12 49 28.8	10 27.5	8 8.7	24 13.5	3 25.9	3 45.9	29 41.4	8 57.8	6 6.4	13 52.6	18 56.7	20 58.2										
5 F	12 53 25.3	11 26.6	8 5.5	8 22.8	5 13.6	4 7.1	0 18.4	8 49.7	6 13.8	13 53.4	18 58.9	20 59.5										
6 S	12 57 21.9	12 25.8	8 2.3	22 35.4	7 0.9	4 30.1	0 55.3	8 41.7	6 21.2	13 54.2	19 1.1	21 0.8										
7 S	13 1 18.4	13 25.0	7 59.1	6 54.8	8 47.7	4 54.8	1 32.2	8 33.6	6 28.6	13 55.0	19 3.3	21 2.1										
8 M	13 5 15.0	14 24.2	7 56.0	20 58.9	10 34.0	5 21.2	2 9.1	8 25.7	6 35.9	13 55.6	19 5.6	21 3.3										
9 T	13 9 11.5	15 23.5	7 52.8	5 5 5.4	12 19.7	5 49.3	2 45.9	8 17.7	6 43.3	13 56.3	19 7.8	21 4.5										
10 W	13 13 8.1	16 22.8	7 49.6	19 6.5	14 4.8	6 18.9	3 22.6	8 9.8	6 50.7	13 56.8	19 10.1	21 5.7										
11 T	13 17 4.6	17 22.1	7 46.4	3 0 2.5	15 49.3	6 50.1	3 59.3	8 1.9	6 58.0	13 57.3	19 12.3	21 6.9										
12 F	13 21 1.2	18 21.4	7 43.6	16 46.7	17 33.0	7 22.7	4 36.0	7 54.1	7 5.3	13 57.8	19 14.5	21 8.0										
13 S	13 24 57.7	19 20.7	7 40.1	0 22.5	19 16.1	7 56.8	5 12.6	7 46.3	7 12.6	13 58.2	19 16.7	21 9.2										
14 S	13 28 54.3	20 20.2	7 36.9	13 46.6	20 58.5	8 32.3	5 49.3	7 38.7	7 20.0	13 58.6	19 19.0	21 10.3										
15 M	13 32 50.9	21 19.7	7 33.7	26 56.9	22 40.2	9 9.0	6 25.8	7 31.1	7 27.2	13 58.9	19 21.3	21 11.4										
16 W	13 36 47.4	22 19.1	7 30.5	9 23.2	24 21.2	9 47.1	7 2.5	7 34.5	7 34.5	13 59.2	19 23.5	21 12.5										
17 T	13 40 44.0	23 18.6	7 27.4	22 32.2	26 15.5	10 26.3	7 38.8	7 16.1	7 41.8	13 59.4	19 25.7	21 13.5										
18 T	13 44 40.5	24 18.2	7 24.2	4 57 5.0	27 41.2	11 6.8	8 15.2	7 8.7	7 49.0	13 59.5	19 27.9	2										