

**JANUARY 1981**

DAY	EPHEMERIS SIDEREAL TIME	○	☽	☾	♀	♂	☿	♃	♄	♅	♆	♇	♈	♉	
	h m s	o /	o /	o /	o /	o /	o /	o /	o /	o /	o /	o /	o /	o /	
<b>LONGITUDE at NOON</b>															
1 T	18 44 12.0	11 6 0.1	12 29.2	16 4.3	11 36.8	17 46.4	1 14.1	9=32.7	9=31.2	28 26.5	23 4.7	24 4.5			
2 F	18 48 8.6	12 1.3	12 26.0	13 15.7	19 7.3	20 36.9	2 1.2	9=36.9	9=32.9	28 29.4	23 6.9	24 10.4			
3 S	18 52 5.2	13 2.5	12 22.8	10 21.1	14 53.0	20 16.5	2 48.3	9 40.9	9 34.6	28 32.4	23 9.0	24 11.2			
4 S	18 56 1.7	14 3.7	12 19.7	22 47.6	16 30.7	21 31.5	3 35.5	9 44.7	9 36.2	28 35.3	23 11.2	24 12.0			
5 M	18 59 58.3	15 4.8	12 16.5	5 28.2	18 8.7	22 46.5	4 22.6	9 48.4	9 37.7	28 38.1	23 13.3	24 12.8			
6 T	19 3 54.8	16 6.0	12 13.3	18 23.1	19 47.0	24 1.5	5 9.8	9 51.9	9 39.0	28 40.9	23 15.4	24 13.5			
7 W	19 7 51.4	17 7.2	12 10.1	1 32.0	21 25.8	25 16.6	5 57.0	9 55.2	9 40.3	28 43.7	23 17.6	24 14.2			
8 T	19 11 47.9	18 8.3	12 7.0	15 53.8	23 4.9	26 31.6	6 44.3	9 58.3	9 41.4	28 46.5	23 19.7	24 14.9			
9 F	19 15 44.5	19 9.5	12 3.8	28 27.3	24 44.4	27 46.7	7 31.5	10 1.2	9 42.5	28 49.2	23 21.8	24 15.5			
10 S	19 19 41.1	20 10.7	16 1.6	12X11.3	26 24.2	29 1.8	8 18.8	10 4.0	9 43.4	28 51.9	23 23.8	24 16.1			
11 S	19 23 37.6	21 11.8	11 57.4	26 4.5	28 4.3	0 16.8	9 6.1	10 6.6	9 44.2	28 54.5	23 25.9	24 16.6			
12 M	19 27 34.2	22 12.9	11 54.2	10 5.7	24 44.8	1 31.9	9 53.4	10 9.0	9 45.2	28 57.1	23 27.9	24 17.2			
13 T	19 31 30.7	23 14.1	11 51.1	24 13.6	1=25.5	2 47.0	10 40.8	10 11.3	9 46.6	28 59.7	23 30.0	24 17.7			
14 W	19 35 27.3	24 15.2	11 47.9	8=26.3	3 6.5	4 21.1	11 28.1	10 13.3	9 46.1	29 2.2	23 32.0	24 18.1			
15 T	19 39 23.8	25 16.3	11 44.7	22 41.6	4 47.5	5 17.1	12 15.5	10 15.1	9 46.5	29 4.7	23 34.0	24 18.5			
16 F	19 43 20.4	26 17.4	11 41.5	6 5X6.4	6 28.7	6 32.2	13 2.8	16 16.8	9 46.8	29 1.1	23 36.0	24 18.9			
17 S	19 47 17.0	27 18.5	11 38.4	21 7.2	8 9.9	7 47.3	13 50.2	10 18.3	9 47.0	29 9.5	23 38.0	24 19.3			
18 S	19 51 13.5	28 19.5	11 35.2	5 5.5	9 9.9	9 50.9	9 2.4	14 37.6	10 19.6	9 47.0	29 11.8	23 39.9	24 19.6		
19 M	19 55 10.1	29 20.6	11 32.0	18.8	11 31.7	10 17.4	15 25.0	10 20.7	9 47.0	29 14.1	23 41.9	24 19.8			
20 T	19 59 6.6	0 21.6	11 28.8	2 35.6	13 12.1	11 32.5	12 12.4	9 46.8	29 16.4	23 43.8	24 20.0				
21 W	20 3 3.2	1 22.7	11 25.5	15 5.6	14 51.9	12 47.6	16 59.8	10 22.3	9 46.6	29 18.6	23 45.7	24 20.2			
22 T	20 8 59.7	2 23.7	11 22.5	28 54.2	16 30.9	14 2.7	17 47.2	10 22.8	9 46.2	29 20.8	23 47.6	24 20.4			
23 F	20 10 56.3	3 24.7	11 19.3	11 37.6	18 8.8	15 17.8	18 34.7	10 23.2	9 45.7	29 22.9	23 49.4	24 20.5			
24 S	20 14 52.8	4 25.7	11 16.1	24 0.2	19 45.3	16 32.9	19 22.7	10 23.3	9 45.2	29 25.0	23 51.2	24 20.6			
25 M	20 18 49.4	5 26.7	11 12.9	6=10.9	21 20.0	17 48.0	20 9.5	10 23.3	9 44.5	29 27.0	23 53.1	24 20.7			
26 W	20 22 46.0	6 27.7	11 9.8	18 11.1	22 52.5	1 31.0	20 57.0	10 23.0	9 43.7	29 29.0	23 54.6	24 20.7			
27 T	20 26 42.5	7 28.6	11 6.6	0 5.2	24 22.4	20 18.2	21 44.4	10 22.6	9 42.8	29 30.9	23 56.6	24 R 20.6			
28 W	20 30 39.1	8 29.6	11 3.4	11 57.7	25 49.2	21 33.3	23 31.9	10 22.0	9 41.8	29 32.8	23 58.1	24 20.6			
29 F	20 34 35.6	9 30.5	11 0.2	23 53.3	27 12.1	22 48.4	23 19.4	10 21.2	9 40.7	29 34.7	24 0.1	24 20.4			
30 S	20 38 32.2	10 31.5	10 57.1	5 56.7	28 30.6	24 3.5	24 6.8	10 20.2	9 39.5	29 36.5	24 1.8	24 20.4			
31 S	20 42 28.7	11 32.4	10 53.9	18 12.2	29 44.0	25 18.6	24 54.3	10 19.0	9 38.1	29 38.2	24 3.5	24 20.2			

**DECLINATION at NOON**

DAY	EPHEMERIS SIDEREAL TIME	○	☽	☾	♀	♂	☿	♃	♄	♅	♆	♇	♈	♉	
	h m s	o /	o /	o /	o /	o /	o /	o /	o /	o /	o /	o /	o /	o /	
<b>DECLINATION at NOON</b>															
1 T	18 44 12.0	22S 59.0	17N 3.5	11S 40.5	24S 44.3	22S 2.5	20S 50.2	23 34.7	15 36.3	19S 36.7	21S 57.7	6N 28.3			
2 F	18 56 1.7	22 41.9	17 6.2	19 21.1	24 22.3	22 27.3	20 26.0	23 37.7	17 37.6	19 58.0	6 29.0				
3 S	19 7 51.4	22 20.6	17 8.8	18 59.0	23 46.6	22 46.1	19 52.5	24 42.1	18 38.3	19 58.5	6 29.8				
4 M	19 11 41.1	21 55.4	17 11.5	9 30.7	22 56.9	22 58.6	19 16.1	24 44.8	18 38.7	19 41.2	21 58.6	6 30.7			
5 T	19 15 58.1	15 36.0	10 41.2	10 10.7	3 31.0	0 19.0	28 4.3	10 12.3	9 31.9	29 44.8	10 40.0	19 49.5			
6 F	19 21 11.5	16 38.6	10 38.0	23 57.7	4 7.1	1 34.1	28 51.7	10 10.2	9 30.0	29 46.3	11 24.8	18 48.9			
7 S	20 10 4.6	18 38.4	10 31.6	22 13.4	4 49.8	4 4.3	0 26.7	10 5.3	9 26.1	29 49.1	14 16.6	24 48.0			
8 S	21 14 1.2	19 39.2	10 28.5	6 33.4	4 54.4	5 19.4	14 1.1	10 2.6	9 24.0	29 50.4	16 1.1	24 17.6			
9 M	21 17 57.7	20 40.0	10 25.3	20 55.4	4 50.2	6 34.4	2 1.6	9 59.8	9 21.7	29 51.7	17 2.6	24 17.1			
10 T	21 21 54.3	21 40.7	10 22.1	5 15.1	4 34.1	7 49.5	2 49.0	9 56.7	9 19.4	29 53.0	19 20.0	24 16.6			
11 W	21 25 50.8	22 41.4	10 18.9	19 29.3	4 7.6	9 4.5	3 36.5	9 53.5	9 17.0	29 54.2	20 24.0	24 16.1			
12 T	21 29 47.4	23 42.1	10 15.8	3 35.5	3 31.1	10 19.6	4 23.9	9 50.0	9 14.5	29 55.3	21 21.8	24 15.5			
13 F	21 33 43.9	24 42.7	10 12.6	17 32.0	2 45.7	11 34.8	5 11.3	9 46.4	9 11.9	29 56.4	21 23.1	24 14.9			
14 S	21 37 40.5	25 43.3	10 9.4	1 15.7	1 52.6	12 49.7	5 58.7	9 42.7	9 9.2	29 57.4	22 24.4	24 14.2			
15 S	21 41 37.0	26 43.9	10 6.2	14 52.2	0 53.1	14 4.7	6 46.1	9 38.7	9 6.4	29 58.4	24 25.7	23 13.6			
16 M	21 45 33.6	27 44.5	10 3.0	28 14.5	29 48.9	15 19.7	7 33.4	9 34.6	9 3.6	29 59.3	25 2.4	23 13.2			
17 T	21 49 40.0	28 45.0	9 59.9	11 24.5	28 41.8	16 34.7	8 20.8	9 30.3	9 0.1	29 60.4	26 22.2	23 12.7			
18 W	21 53 26.7	29 45.5	9 55.7	24 21.5	27 33.7	17 49.7	9 8.1	9 25.9	8 57.6	0 1.0	29 61.3	27 12.1	23 12.1		
19 T	21 57 23.3	0 46.0	9 53.5	7 5.6	26 26.2	19 4.7	9 55.4	9 21.3	8 54.5	0 1.7	29 62.2	28 10.6	23 12.1		
20 F	22 1 19.8	1 46.4	9 50.3	19 36.7	25 21.0	20 19.7	10 42.8	9 16.5	8 51.3	0 2.4	29 63.0	29 9.5	23 11.6		
21 S	22 5 16.4	2 45.8	9 47.2	1 55.7	2 45.7	1 34.1	10 32.6	9 11.6	8 48.1	0 3.1	29 63.8	30 8.4	23 11.6		
22 S	22 9 12.9	3 47.2	9 44.0	14 4.0	23 22.8	22 49.6	12 17.3	9 6.6	8 44.7	0 3.7	29 33.9	24 7.9	23 11.2		
23 M	22 13 9.5	4 47.6	9 40.8	26 3.8	22 32.0	24 4.6	13 4.6	9 3.3	8 41.3	0 4.2	29 35.0	24 7.0	23 11.2		
24 T	22 17 6.0	5 48.0	9 37.6	7 58.0	21 47.7	25 19.6	13 51.9	8 56.0	8 37.8	0 4.7	29 36.0	24 6.1	23 11.2		
25 W	22 21 2.6	6 48.3	9 34.1	19 50.2	21 10.4	26 34.5	14 30.3	8 50.5	8 34.3	0 5.2	29 37.0	24 5.1	23 11.2		
26 T	22 24 59.1	7 48.6	9 31.3	1 44.6	20 40.2	27 49.5	15 26.3	8 44.9	8 30.6	0 5.5	29 38.0	24 4.1	23 11.2		
27 F	22 28 55.7	8 48.9	9 28.1	13 45.9	20 17.3	29 4.4	16 13.5	8 39.1	8 26.9	0 5.9	29 38.9	24 3.1	23 11.2		
28 S															

MAY 1981

JULY 1981

DAY	EPHEMERIS SIDEREAL TIME		○	☽	☾	♀	♂	♃	♄	♅	♆	♇	♈		
	h	m	s	o	/	o	/	o	/	o	/	o	/		
LONGITUDE at NOON															
1 F	2	37	18.5	11	11	1.3	6	7.9	3	45.4	15	31.8	17	17.7	
2 S	2	41	15.1	11	59.5	6	4.7	17	58.8	17	40.8	18	31.7	5	23.5
3 S	2	45	11.6	12	57.7	6	1.5	3	11.0	19	49.2	18	45.6	6	8.2
4 M	2	49	8.2	13	55.9	5	58.3	18	31.0	21	56.8	19	56.6	6	52.8
5 T	2	53	4.7	14	54.0	5	52.1	18	46.8	24	3.3	22	13.5	7	37.3
6 W	2	57	1.3	15	52.1	5	52.0	18	47.9	28	11.1	24	41.4	9	6.3
7 T	3	0	57.8	16	50.2	5	48.8	3	25.9	28	11.1	24	41.4	9	50.7
8 F	3	4	54.4	17	48.3	5	45.6	17	36.4	0	12.2	25	55.3	9	37.4
9 S	3	8	50.9	18	46.3	5	42.5	1	18.2	1	11.1	10	35.1	0	56.5
10 S	3	12	47.5	19	44.3	5	39.3	14	32.9	4	7.4	28	23.0	11	19.4
11 M	3	16	44.1	20	42.2	5	36.1	24	24.1	6	1.1	29	36.8	12	3.6
12 T	3	20	40.6	21	40.2	5	32.9	9	55.8	7	52.0	0	50.6	12	47.8
13 W	3	24	37.2	22	36.1	5	29.7	22	12.6	9	39.9	2	4.4	13	31.9
14 T	3	28	33.7	23	35.9	5	26.6	4	18.6	11	24.7	3	18.2	14	16.0
15 F	3	32	30.3	24	33.8	5	23.4	16	17.4	13	6.3	4	32.0	15	0.0
16 S	3	36	26.8	25	31.6	5	20.2	28	11.9	14	44.6	5	45.7	15	44.0
17 S	3	40	23.4	26	29.4	5	17.0	10	4.5	16	19.6	6	59.4	17	27.9
18 M	3	44	19.9	27	27.1	5	13.9	21	57.0	17	51.2	8	13.1	17	56.6
19 T	3	48	16.5	28	24.9	5	10.7	3	50.9	19	19.4	9	26.9	17	57.6
20 W	3	52	13.1	29	22.6	5	7.5	15	47.6	20	44.1	10	40.5	18	33.0
21 T	3	56	9.6	0	20.3	5	4.3	27	48.8	22	5.2	11	54.2	19	23.1
22 F	4	0	6.2	1	18.0	5	1.2	9	56.4	23	22.7	13	7.8	20	56.7
23 S	4	4	2.7	2	15.7	4	58.0	22	13.0	24	36.5	14	21.5	20	50.3
24 S	4	7	59.3	3	13.3	4	54.8	4	41.7	25	46.7	15	35.1	21	33.8
25 M	4	11	55.8	4	10.9	4	51.6	17	26.0	26	53.1	16	48.7	22	17.3
26 T	4	15	52.4	5	8.5	4	48.4	0	29.7	27	55.6	18	2.3	23	0.8
27 W	4	19	48.9	6	6.1	4	45.3	13	56.2	28	54.4	19	15.9	23	44.2
28 T	4	23	45.5	7	3.7	4	42.1	27	47.9	29	49.1	20	29.4	24	27.5
29 F	4	27	42.1	8	1.3	4	38.9	12	5.5	0	39.9	21	43.0	25	10.8
30 S	4	31	38.6	8	58.8	4	35.7	26	46.9	1	2.6	22	58.5	25	54.0
31 S	4	35	35.2	9	56.4	4	32.6	2	9.0	24	10.0	26	37.2	0	27.9

## DECLINATION at NOON

1 F	2	37	18.5	15	1.1	18N	44.4	25	39.0	16N	49.9	16N	31.0	10N	49.5	10N	49.6	21S	58.3	7N	41.0
4 M	2	49	8.2	16	1.1	18	46.8	12N	38.6	19	6.1	17	36.0	13	30.1	0	54.1	0	52.7	19	42.1
7 T	3	0	57.8	16	52.0	18	49.1	20	45.4	21	4.9	18	40.9	14	50.0	0	58.1	0	55.7	19	37.5
10 S	3	12	47.5	17	40.3	18	51.5	17	24.2	19	39.3	14	58.6	1	1.5	0	58.3	0	58.3	19	43.9
13 W	3	24	37.2	18	25.8	18	53.8	6	30.1	23	57.5	20	33.0	15	40.8	1	4.3	1	0.6	19	34.3
16 S	3	36	26.8	19	8.6	18	56.1	6S	9.7	24	49.9	21	21.6	16	21.5	1	6.4	1	2.6	19	32.7
19 T	3	48	16.5	19	48.5	18	58.4	16	37.9	23	21.3	22	4.9	17	0.8	1	7.8	1	4.1	19	34.6
22 F	4	0	6.2	20	25.3	19	0.8	21	2.8	25	34.0	22	42.6	17	38.5	1	8.6	1	5.3	19	34.9
25 M	4	4	58.8	20	59.0	19	3.0	16	47.6	25	30.6	23	14.5	18	4.6	1	8.7	1	6.2	19	27.7
28 T	4	23	25.5	21	29.4	19	5.3	4	41.2	25	13.6	23	40.4	18	49.0	1	8.2	1	6.7	19	26.0
31 S	4	35	35.2	21	56.5	19	7.6	10N	34.1	24	45.6	24	0.1	19	21.8	1	7.1	1	6.8	19	24.5

## DECLINATION at NOON

1 M	4	39	31.7	10	X 53.9	4	29.4	26	56.9	25	X 23.6	27	20.3	0	28.7	3	0.4	27	33.0	23	49.9	21	46.6		
2 T	4	42	28.3	11	51.4	4	26.2	12	7.3	3	21.2	26	37.1	28	3.4	0	29.7	3R	0.1	27R	30.6	23R	45.7		
3 W	4	47	24.8	12	48.9	4	23.0	27	7.4	3	50.7	28	46.4	0	30.8	2	5.8	27	28.2	23	46.7	21	44.8		
4 T	4	51	21.4	13	46.3	4	19.9	11	48.6	4	15.8	29	40.2	29	23.3	0	17.5	30.2	28	45.2	21	43.9			
5 F	4	55	18.0	14	43.8	4	16.7	26	5.0	4	36.3	0	17.5	26	59.7	27	23.5	23	43.1	21	43.1	21	43.9		
6 S	4	59	14.5	15	41.2	4	14.3	9	53.6	19	56.3	1	30.1	0	55.1	0	35.0	20	59.5	21	42.2	21	42.2		
7 S	5	3	11.1	16	38.6	4	10.3	23	14.8	5	3.6	2	44.3	1	37.9	3	0.0	27	18.8	23	40.3	21	41.4		
8 M	5	7	7.6	17	36.0	4	7.1	6	10.9	5	10.3	3	57.7	2	20.6	3	0.3	27	16.5	23	38.7	21	40.7		
9 T	5	11	4.2	18	33.4	4	4.0	18	45.5	5	12.6	3	11.2	3	3.3	4	1.1	27	16.5	23	38.7	21	40.7		
10 W	5	15	0.7	19	30.8	4	0.8	1	3.1	5R	10.2	6	24.5	3	46.0	4	0.3	27	28.7	21	40.0	21	40.0		
11 T	5	18	57.3	20	28.2	3	5.6	13	8.1	5	3.5	7	37.9	4	28.5	3	1.2	27	35.5	21	39.3	21	39.3		
12 F	5	22	53.3	21	25.5	3	54.4	25	5.1	4	52.5	8	51.2	5	11.0	0	48.9	3	2.6	27	35.5	21	37.4	21	37.4
13 S	5	26	50.4	22	22.8	3	51.3	6	6.7	4	37.4	3	37.2	10	4.5	5	53.5	3	32.0	23	39.0	21	37.4	21	37.4
14 S	5	30	47.0	23	20.1	3	48.1	18	49.8	4	18.4	11	17.8	6	35.9	0	54.9	3	4.3	27	32.2	21	36.8	21	36.8
15 M	5	34	43.5	23	17.4	4	44.9	3	43.6	3	59.9	12	31.1	7	18.2	0	58.1	3	5.3	27	28.4	21	36.8	21	36.8
16 T	5	38	40.1	24	14.6	4	11.7	12	41.5	3	30.3	13	44.4	8	0.5	1	1.4	3	6.4	26	59.0	21	35.7	21	35.7
17 W	5	42	36.6	25	11.9	3	36.6	26	45.3	3	3.8	14	57.6	8	42.8	1	5.0	27	35.7	21	35.7	21	35.7		
18 T	5	46	33.2	27	9.7	3	35.4	23	31.1	16	10.4	9	24.9	1	8.7	3	8.9	26	56.8	21	34.8	21	34.8		
19 F	5	50	29.8	28	6.4	3	32.2	19	16.3	17	40.0	10	7.1	1	12.5	3	10.3	26	52.8	21	34.4	21	34.4		
20 S	5	54																							

## SEPTEMBER 1981

DAY	EPHEMERIS SIDEREAL TIME		○	☽	☾	♀	♂	☿	♃	♄	♅	♆	♇	♈	♉
	h	m	s	o	/	o	/	o	/	o	/	o	/	o	/
LONGITUDE at NOON															
1 T	10	42	14.9	8	57.4	29	37.1	13	2.5	27	46.4	16	32.5	29	38.4
2 W	10	46	11.4	9	55.5	29	33.9	25	20.8	29	19.6	17	43.4	04	16.6
3 T	10	50	8.0	10	53.6	29	30.7	7	27.2	0	51.5	18	54.2	0	54.7
4 F	10	54	4.5	11	51.8	29	27.6	19	24.6	2	22.2	18	49.2	1	32.8
5 S	10	58	1.1	12	50.0	29	24.4	1	16.8	3	51.6	21	15.6	2	10.8
6 S	11	1	57.6	13	48.2	29	21.2	13	8.5	5	19.7	22	26.3	2	48.7
7 M	11	5	54.2	14	46.4	29	18.0	25	4.6	6	46.5	23	38.8	3	26.6
8 T	11	9	50.7	15	44.6	29	14.8	25	10.0	8	12.1	24	47.3	4	4.5
9 W	11	13	47.3	16	42.9	29	11.7	19	29.8	9	36.3	18	57.6	4	42.3
10 T	11	17	43.9	17	41.2	29	8.5	2	8.1	10	59.2	27	8.1	5	20.0
11 F	11	21	40.4	18	39.6	29	5.3	15	8.4	12	20.7	28	18.4	5	57.7
12 S	11	25	37.0	19	37.9	29	2.1	28	32.2	13	40.8	29	28.7	6	35.3
13 S	11	29	33.5	20	36.3	28	59.0	12	19.4	14	59.5	0	38.8	7	12.9
14 M	11	33	30.1	21	34.7	28	55.8	26	27.4	16	16.7	1	48.9	7	50.4
15 W	11	37	26.6	22	33.2	28	52.6	10	51.6	17	32.3	8	27.8	22	7.7
16 T	11	41	23.2	23	31.7	28	49.4	25	25.4	18	46.3	4	8.8	9	52.2
17 T	11	45	19.7	24	30.2	28	46.2	10	2.1	19	56.8	15	18.7	9	42.6
18 F	11	49	16.3	25	28.7	28	43.1	24	34.9	21	9.1	6	26.5	10	19.5
19 S	11	53	12.8	26	27.3	28	39.9	8	58.9	22	17.7	7	36.2	10	57.1
20 S	11	57	9.4	27	25.9	28	36.7	23	10.7	23	24.4	8	47.8	11	34.3
21 M	12	1	5.9	28	24.6	28	33.5	7	8.7	24	28.9	12	57.4	12	52.5
22 T	12	5	2.5	29	23.4	28	30.4	20	52.9	25	31.2	11	6.1	27	10.7
23 W	12	9	59.0	0	22.1	28	27.2	4	23.7	26	31.0	12	16.3	25	15.6
24 T	12	12	55.6	1	20.9	28	24.0	17	42.2	28	28.2	13	25.7	14	36.7
25 F	12	16	52.1	2	19.7	28	20.8	0	49.1	28	22.6	14	34.9	14	39.3
26 S	12	20	48.7	3	18.5	28	17.6	13	44.7	29	14.0	15	41.1	16	56.3
27 S	12	24	45.2	4	17.4	28	14.5	26	29.1	0	2.1	16	53.1	15	10.1
28 M	12	28	41.8	5	16.4	28	11.3	9	2.3	0	46.6	18	21.1	17	22.0
29 T	12	32	38.3	6	15.3	28	8.1	1	27.2	19	11.0	17	34.8	17	34.8
30 W	12	36	34.9	7	14.3	28	4.9	3	35.5	2	3.7	20	19.8	17	47.7
DECLINATION at NOON															
1 T	10	42	14.9	8	N 12.7	20	N 13.9	0	S 37.4	1	N 2.2	6	S 26.2	21	N 9.5
4 F	10	54	4.5	7	6.8	20	15.9	12	S 51.9	1	S 9.0	7	S 5.7	20	E 45.5
7 M	11	5	54.2	5	59.8	20	17.9	20	N 19.8	3	16.1	9	25.9	20	22.3
10 T	11	17	43.9	4	52.0	20	19.9	19	G 47.9	5	18.3	10	53.4	19	S 38.8
13 S	11	29	33.5	3	43.4	20	21.8	10	4.8	7	14.8	12	18.9	19	30.4
16 W	11	41	23.2	2	34.2	20	23.8	5	N 6.1	9	4.5	13	42.1	19	31.4
19 S	11	53	12.8	1	24.5	20	25.7	17	P 52.4	10	46.2	15	2.7	18	34.6
22 T	12	2	5.5	0	14.6	20	27.7	21	1.0	12	18.5	16	20.4	18	5.2
25 F	12	16	52.1	0	S 55.6	20	29.6	13	37.2	13	39.5	17	34.8	17	35.0
28 M	12	26	41.8	2	5.7	20	31.5	0	45.5	4	46.6	2	40.0	19	22.9

## OCTOBER 1981

DAY	EPHEMERIS SIDEREAL TIME		○	☽	☾	♀	♂	☿	♃	♄	♅	♆	♇	♈	♉	
	h	m	s	o	/	o	/	o	/	o	/	o	/	o	/	
LONGITUDE at NOON																
1 T	12	40	31.4	8	13.3	28	1.7	1	15	37.3	2	35.5	21	28.5	18	19.3
2 F	12	44	28.0	9	12.4	27	31.7	3	2.4	22	37.0	19	35.5	3	26.6	
3 S	12	48	24.6	10	11.4	27	55.4	9	21.5	3	23.9	23	45.5	19	32.1	
4 S	12	52	21.1	11	10.5	27	52.2	1	10.8	3	36.6	24	53.9	20	8.4	
5 M	12	56	17.7	12	9.7	27	49.0	3	5.0	3	49.0	26	44.6	18	52.4	
6 T	13	0	14.2	13	8.8	27	45.9	15	6.4	3	51.7	26	21.3	20	19.5	
7 W	13	4	10.8	14	8.0	27	42.7	27	23.2	1	R 47.2	28	18.3	19	5.4	
8 T	13	8	7.3	15	7.3	27	39.5	9	59.7	3	35.1	28	26.2	20	32.9	
9 F	13	12	3.9	16	6.5	27	36.3	2	0.8	13	15.1	0	33.9	23	31.4	
10 S	13	16	0.4	17	5.8	27	33.1	8	29.0	2	46.9	1	41.6	23	44.8	
11 S	13	19	57.0	18	5.1	27	30.0	2	10.5	2	49.0	24	20.6	20	10.4	
12 M	13	23	53.5	19	4.5	27	26.8	1	49.4	1	26.1	3	56.4	20	23.4	
13 T	13	27	50.6	20	3.9	27	23.6	19	34.5	0	33.9	5	3.6	25	32.1	
14 W	13	31	46.6	21	3.3	27	20.4	4	32.9	29	34.7	6	10.7	26	36.5	
15 T	13	36	43.2	22	2.8	27	17.3	19	35.1	26	29.4	7	17.6	26	32.8	
16 F	13	39	39.7	23	2.3	27	14.1	4	31.6	27	19.5	13	24.3	26	34.8	
17 S	13	43	36.3	24	1.8	27	10.7	19	30.9	1	25.4	27	12.1	25	36.5	
18 M	13	47	32.8	25	1.3	27	7.7	3	35.8	0	24.5	10	37.3	20	25.5	
19 T	13	51	24.4	26	0.9	27	4.5	17	40.5	23	39.6	11	33.6	26	30.1	
20 W	13	55	26.0	27	0.6	1	1.1	21	27.7	22	30.0	12	49.6	29	38.9	
21 T	13	59	22.5	28	0.3	26	28.2	14	43.3	21	25.7	15	55.5	20	26.7	
22 W	14	1	3.9	28.0	0	27	24.7	27	17.3	19	55.5	0	37.0	21	23.2	
23 T	14	4	19.1	28	6.0	27	22.7	17	40.8	16	6.8	25	33.7	22	42.6	
24 S	14	7	15.6	28	59.7	26	21.5	10	37.7	19	40.8	16	25.0	24	28.0	
25 S	14	15	8.7	1	59.4	26	45.5	5	44.2	18	35.4	18	17.3	23	32.6	
26 M	14	19	5.3	2	59.1	26	42.3	1	0.7	18	19.7	19	22.2	3	34.5	
27 T	14	23	1.8	3	59.1	26	39.1	0	10.6	4	27.0	23	38.5	2	36.8	
28 W	14	26	58.4	4	59.0	26	35.9	12	13.1	18D 22.3	21	31.5	4	38.5	26	40.0
29 T	14	30	54.9	5	59.0	26	32.8	24	9.2	18	39.9	22	35.7	5	44.7	
30 F	14	34	51.5	6	59.0	26	29.6	6	0.3	19	7.6	23	39.8	5	47.1	
31 S	14	38	48.0	7	59.0	26	26.4	17	48.6	24	43.6	6	24.3	19	44.4	
DECLINATION at NOON																
1 T	12	40	31.4	35	15.7	20N 33.4	11S									