

JANUARY 1977

DAY	EPHEMERIS SIDEREAL TIME		LONGITUDE at NOON												
	h	m s	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
	o	'	o	'	o	'	o	'	o	'	o	'	o	'	
1 S	18 44	6.0	10 ^b 58.6	29 ^a 51.5	26 ^w 10.6	21 ^b 30.9	26 ⁻ 35.3	0 ^b 21.7	21 ^v 30.4	15 ^a 47.8	10 ^m 54.4	14 40.6	14 ⁻ 7.6		
2 S	18 48	2.5	11 59.8	29 48.3	8 ^x 6.0	20 31.0	27 42.9	1 6.5	21 27.6	15 44.2	10 56.7	14 42.6	14 8.1		
3 M	18 51	59.1	13 09	29 45.1	20 11.0		27 50.2	1 51.5	21 25.1	15 40.5	10 58.9	14 44.7	14 8.5		
4 T	18 55	55.6	14 20	29 41.9	25 ^w 27.8		28 57.4	2 36.4	21 22.7	15 36.8	11 1.1	14 46.7	14 9.0		
5 F	18 59	52.2	15 32	29 38.6	14 57.5		29 5.4	3 21.6	21 20.2	15 33.0	11 3.3	14 48.8	14 9.4		
6 W	19 3 48.7	16 43.2	29 35.4	29 35.4	27 40.3		30 18.6	4 6.5	21 18.6	15 30.0	11 5.4	14 50.8	14 9.8		
7 F	19 7 45.1	17 55	29 32.4	29 32.4	25 27.8		31 18.6	5 21.1	21 16.6	15 26.8	12 7.4	14 52.8	14 10.1		
8 S	19 11 41.9	18 6.6	29 29.2	29 29.2	23 42.5		32 12.0	6 17.5	21 14.9	15 23.2	12 9.5	14 54.8	14 10.4		
9 S	19 15 38.4	19 7.7	29 26.1	29 26.1	7 ^w 0.2		33 11.4	7 2.9	21 12.9	15 20.0	13 11.4	14 56.7	14 10.6		
10 M	19 19 35.0	20 8.9	29 22.9	29 22.9	20 28.1		34 10.4	8 35.5	21 11.4	15 17.1	13 13.3	14 58.6	14 10.8		
11 T	19 23 31.5	21 10.0	29 19.7	29 19.7	4 ⁻ 6.3		35 9.2	9 42.5	21 10.0	15 13.3	14 15.2	14 58.6	14 11.0		
12 W	19 27 28.1	22 11.1	29 16.5	29 16.5	17 54.8		36 8.2	10 52.5	21 9.2	15 10.0	14 16.6	14 58.6	14 11.2		
13 T	19 31 24.6	23 12.2	29 13.4	29 13.4	1 ^m 54.3		37 7.1	12 41.5	21 8.4	15 7.1	14 18.0	14 58.6	14 11.4		
14 F	19 35 21.2	24 13.4	29 10.2	29 10.2	16 4.7		38 6.0	14 30.9	21 7.7	15 4.4	14 19.4	14 58.6	14 11.6		
15 S	19 39 17.8	25 14.5	29 7.0	29 7.0	0 ⁻ 24.8		39 5.0	16 20.5	21 6.6	15 1.1	14 20.8	14 58.6	14 11.8		
16 S	19 43 14.3	26 15.6	29 3.8	29 3.8	14 52.1		40 4.0	18 11.4	21 5.5	14 5.0	14 22.2	14 58.6	14 12.0		
17 M	19 47 10.9	27 16.7	29 0.6	29 0.6	29 22.2		41 3.0	20 2.2	21 4.4	14 2.2	14 23.6	14 58.6	14 12.2		
18 W	19 51 7.4	28 17.8	28 57.5	13 ^a 49.2	17 54.8		42 2.0	22 1.1	21 3.3	14 0.0	14 25.0	14 58.6	14 12.4		
19 T	19 55 4.0	29 18.9	28 54.3	28 54.3	6 4		43 1.0	24 0.6	21 2.2	13 57.4	14 26.4	14 58.6	14 12.6		
20 T	19 59 0.5	0 ⁻ 20.0	28 51.1	12 ⁻ 7.6	17 54.8		44 0.0	26 0.0	21 1.1	13 54.8	14 27.8	14 58.6	14 12.8		
21 F	20 2 57.1	1 21.1	28 47.9	25 47.9	9 ^x 4.8		45 0.0	28 0.0	21 0.0	13 52.2	14 29.2	14 58.6	14 13.0		
22 S	20 6 53.6	2 22.1	28 44.8	28 44.8			46 0.0	30 0.0	21 0.0	13 49.6	14 30.6	14 58.6	14 13.2		
23 S	20 10 50.2	3 23.2	28 41.6	21 57.7	9 21.5		47 0.0	32 0.0	21 0.0	13 47.0	14 32.0	14 58.6	14 13.4		
24 M	20 14 46.8	4 24.2	28 38.4	4 ^w 28.6	10 4.0		48 0.0	34 0.0	21 0.0	13 44.4	14 33.4	14 58.6	14 13.6		
25 T	20 18 43.3	5 25.2	28 35.2	16 41.1	11 11.1		49 0.0	36 0.0	21 0.0	13 41.8	14 34.8	14 58.6	14 13.8		
26 W	20 22 39.9	6 26.2	28 32.1	22 39.9	12 18.2		50 0.0	38 0.0	21 0.0	13 39.2	14 36.2	14 58.6	14 14.0		
27 T	20 26 36.4	7 27.2	28 28.9	10 ^v 30.3	13 25.3		51 0.0	40 0.0	21 0.0	13 36.6	14 37.6	14 58.6	14 14.2		
28 F	20 30 33.0	8 28.2	28 25.7	22 18.0	14 32.4		52 0.0	42 0.0	21 0.0	13 34.0	14 39.0	14 58.6	14 14.4		
29 S	20 34 29.5	9 29.1	28 22.5	4 ^x 8.4	15 39.5		53 0.0	44 0.0	21 0.0	13 31.4	14 40.4	14 58.6	14 14.6		
30 S	20 38 26.1	10 30.1	28 19.3	16 6.7	16 46.7		54 0.0	46 0.0	21 0.0	13 28.8	14 41.8	14 58.6	14 14.8		
31 M	20 42 22.6	11 31.0	28 16.2	28 16.2	17 53.7		55 0.0	48 0.0	21 0.0	13 26.2	14 43.2	14 58.6	14 15.0		

DAY	EPHEMERIS SIDEREAL TIME		DECLINATION at NOON											
	h	m s	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
	o	'	o	'	o	'	o	'	o	'	o	'	o	'
1 T	18 44	6.0	22S 59.2	11S 25.3	17N 12.5	20S 20.5	14S 8.2	24S 3.9	17N 11.8	16N 56.6	14S 40.9	21S 6.8	10N 4.6	
4 T	18 55	55.6	22 42.2	11 18.6	10 59.3	19 53.6	12 48.3	24 4.0	17 10.6	16 42.9	21 7.4	10 5.7		
7 F	19 7 45.3	22 20.8	11 16.6	10 58.0	10 58.0	19 50.8	11 26.0	24 1.8	17 9.9	16 42.2	21 8.1	10 6.9		
10 M	19 19 35.0	21 55.7	11 15.3	10 56.9	10 56.9	19 48.1	11 24.3	23 50.4	17 10.6	16 41.6	21 8.8	10 7.8		
13 T	19 31 24.6	21 26.7	11 11.9	11S 56.5	19 52.8	8 35.9	23 57.3	17 9.7	17 9.7	16 41.2	21 9.7	10 8.2		
16 S	19 43 14.3	21 26.7	11 8.5	19 51.2	20 12.8	7 8.6	23 41.2	17 12.4	14 46.3	21 9.2	10 9.7			
19 W	19 55 4.0	20 17.7	11 5.1	4 38.1	20 37.2	5 40.5	23 29.6	17 13.9	14 49.8	21 9.7	10 11.3			
22 S	20 7 45.1	19 37.9	11 1.7	4 38.1	21 2.0	4 11.7	23 15.7	17 11.6	14 51.1	21 10.2	10 13.0			
25 T	20 18 43.3	18 54.9	10 58.4	7N 29.0	21 23.8	2 42.7	22 59.5	17 15.7	14 53.4	21 11.1	10 16.6			
28 F	20 30 33.0	18 8.8	10 55.0	16 20.1	21 39.8	1 13.9	22 40.9	17 18.4	14 54.7	21 11.6	10 18.6			
31 M	20 42 22.6	17 19.7	10 51.6	21 46.2	0N 14.4	22 20.2	17 21.5	17 39.2	14 55.1	21 11.9	10 20.6			

FEBRUARY 1977

DAY	EPHEMERIS SIDEREAL TIME		LONGITUDE at NOON											
	h	m s	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
	o	'	o	'	o	'	o	'	o	'	o	'	o	'
1 T	20 46	19.2	12 ⁻ 31.8	28 ⁻ 13.0	10 ^s 24.7	17 ^b 51.1	29 ^x 17.7	23 ^b 57.5	21 ^v 40.2	13 ^a 30.5	11 ^m 42.4	15 ^v 35.9	14 ⁻ 6.7	
2 W	20 50 15.8	13 32.7	28 9.8	10 ^s 25.2	17 ^b 51.1	19 1.1	1 ^o 14.5	23 51.5	21 40.7	13 28.6	11 43.1	15 37.3	14 6.1	
3 F	20 54 12.3	14 33.5	28 6.6	10 ^s 25.7	17 1.1	1 10.8	25 23.6	21 47.5	21 40.7	13 26.7	11 43.8	15 38.7	14 5.5	
4 S	20 58 8.9	15 34.3	28 3.5	19 42.9	21 26.5	1 6.4	26 5.7	21 51.4	21 45.3	13 25.1	11 44.4	15 40.1	14 4.8	
5 S	21 2 5.4	16 35.1	28 0.3	3 ^w 13.6	22 41.8	3 1.5	26 55.8	21 55.5	21 50.0	13 23.5	11 44.9	15 41.4	14 4.1	
6 M	21 6 2.0	17 35.9	27 57.1	10 58.2	23 58.6	3 58.6	27 42.0	21 59.8	21 50.0	13 22.0	11 45.4	15 42.7	14 3.4	
7 T	21 9 58.5	18 36.7	27 53.9	0 ⁻ 48.2	25 16.8	4 49.6	28 28.2	22 4.2	13 1.1	11 45.8	15 43.9	14 2.7		
8 T	21 13 55.1	19 37.4	27 50.7	14 45.6	26 36.3	5 42.6	28 28.2	22 4.2	13 1.1	11 45.8	15 45.2	14 1.9		
9 W	21 17 51.6	20 38.1	27 47.6	28 46.6	27 57.2	6 34.9	0 ⁻ 0.6	22 13.7	12 56.2	11 46.2	15 46.4	14 1.1		
10 W	21 21 48.2	21 38.8	27 44.4	12 ^m 50.9	28 19.3	7 26.5	0 46.9	22 18.7	12 54.4	11 46.5	15 46.4	14 1.1		
11 F	21 25 44.7	22 39.5	27 41.2	26 56.7	29 0.2	8 17.3	1 33.2	22 23.9	12 41.8	11 46.7	15 46.7	14 1.1		
12 S	21 29 41.3	23 40.2	27 38.0	11 3.4	2 6.9	9 7.3	2 19.6	22 29.3	12 37.0	11 47.1	15 46.8	14 1.1		
13 S	21 33 37.8	24 40.9	27 34.9	25 9.8	3 32.4	9 56.5	3 5.9	22 34.8	12 32.2	11 47.2	15 46.9	14 1.1		
14 M	21 37 34.4	25 41.5	27 31.7	9 ^b 13.6	4 58.9	10 44.9	3 52.3	22 40.5	12 27.5	11 47.2	15 47.0	14 1.1		
15 T	21 41 31.0	26 42.1	27 28.5	6 26.4	6 26.4	11 32.4	4 38.7	22 46.4	12 22.8	11 47.2	15 47.1	14 1.1		
16 W	21 45 27.5	27 42.8	27 25.3	7 ⁻ 1.8	7 55.1	12 19.0	5 25.2	22 52.5	12 18.2	11 47.2	15 47.1	14 1.1		
17 T	21 49 24.1	28 43.3	27 22.1	20 38.0	8 24.6	13 4.6	6 11.7	22 58.7	12 13.6	11 47.2	15 47.1	14 1.1		
18 F	21 53 20.6	29 43.9	27 19.0	3 ^x 60.0	9 55.1	13 49.1	7 58.1	23 5.1	12 9.0	11 47.2	15 47.1	14 1.1		
19 S	21 57 17.2	30 44.7	27 15.8	17 3.2	12 26.6	14 32.7	7 44.6	23 11.6	12 4.5	11 47.2	15 47.1	14 1.1		
20 S	22 1 13.7	1 44.9	27 12.6	29 47.8	13 59.1	15 15.2	8 31.2	23 18.3	12 0.0	11 47.3	15 47.1	14 1.1		
21 M	22 5 10.3	2 45.3	27 9.4	12 ^v 14.6	15 32									

MAY 1977

Table for May 1977 showing Ephemeris Sidereal Time, Longitude at Noon, and Declination at Noon for various days of the month. Includes zodiac signs and planetary symbols.

JUNE 1977

Table for June 1977 showing Ephemeris Sidereal Time, Longitude at Noon, and Declination at Noon for various days of the month. Includes zodiac signs and planetary symbols.

JULY 1977

Table for July 1977 showing Ephemeris Sidereal Time, Longitude at Noon, and Declination at Noon for various days of the month. Includes zodiac signs and planetary symbols.

AUGUST 1977

Table for August 1977 showing Ephemeris Sidereal Time, Longitude at Noon, and Declination at Noon for various days of the month. Includes zodiac signs and planetary symbols.

SEPTEMBER 1977

DAY	EPHEMERIS SIDEREAL TIME	LONGITUDE at NOON											
		♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
1 T	10 42 8.7	8W56.1	16=59.4	23V20.3	16W 5.6	4N35.7	05=18.3	1=54.7	22=50.6	8W37.9	13=23.1	12=44.5	
2 F	10 46 53.9	9 54.2	16 56.2	5V41.7	15R10.9	5 47.0	0 55.3	2 3.5	22 58.1	8 40.2	13 23.4	12 46.5	
3 S	10 50 18.0	10 52.3	16 53.0	17 48.9	14 13.9	6 58.5	1 32.2	2 12.2	23 5.5	8 42.6	13 23.6	12 48.6	
4 S	10 53 58.4	11 50.5	16 49.8	29 46.3	13 15.7	8 10.0	2 9.0	2 20.7	23 13.0	8 45.0	13 24.0	12 50.7	
5 M	10 57 54.9	12 48.6	16 46.6	11X38.6	12 17.6	9 21.6	2 45.6	2 29.1	23 20.4	8 47.5	13 24.3	12 52.7	
6 T	11 1 51.5	13 46.8	16 43.5	23 30.8	11 20.9	10 33.3	3 22.1	2 37.4	23 27.8	8 50.0	13 24.7	12 54.9	
7 W	11 5 48.0	14 45.1	16 40.3	5=27.6	10 28.8	11 45.1	3 58.4	2 45.6	23 35.1	8 52.5	13 25.1	12 57.0	
8 T	11 9 43.6	15 43.6	16 37.1	17 31.6	9 36.6	12 57.0	4 34.6	2 53.6	23 42.4	8 55.1	13 25.5	12 59.1	
9 F	11 13 41.1	16 41.6	16 33.9	29 52.5	8 51.5	14 9.0	5 10.6	3 1.5	23 49.7	8 57.7	13 26.0	13 1.2	
10 S	11 17 37.7	17 40.0	16 30.8	12=27.2	8 12.8	15 21.0	5 46.5	3 9.3	23 57.0	9 0.4	13 26.5	13 3.4	
11 S	11 21 34.2	18 38.3	16 27.6	25 19.3	7 41.2	16 33.1	6 22.3	3 16.9	24 4.2	9 3.1	13 27.0	13 5.6	
12 M	11 25 30.8	19 36.7	16 24.4	8W29.5	7 17.7	17 45.3	6 57.9	3 24.4	24 11.4	9 5.8	13 27.6	13 7.8	
13 T	11 29 27.3	20 35.2	16 21.2	21 57.0	7 2.5	18 57.6	7 33.4	3 31.7	24 18.6	9 8.6	13 28.2	13 10.0	
14 W	11 33 23.9	21 33.7	16 18.0	5=39.8	6 57.0	20 10.0	8 7	3 39.0	24 25.8	9 11.4	13 28.9	13 12.3	
15 T	11 37 20.4	22 32.2	16 14.9	19 35.2	7D 0.6	21 22.4	8 83.8	3 46.0	24 32.9	9 14.2	13 29.3	13 14.5	
16 F	11 41 17.0	23 30.7	16 11.7	3=40.1	7 13.5	22 34.8	9 58.6	3 52.9	24 40.0	9 17.1	13 30.3	13 16.7	
17 S	11 45 13.5	24 29.2	16 8.5	17 51.1	7 35.9	23 47.4	9 53.3	3 59.6	24 47.0	9 20.0	13 31.0	13 19.0	
18 S	11 49 10.1	25 27.8	16 5.3	2 54.0	8 7.4	25 0.0	10 28.2	4 6.2	24 54.0	9 22.9	13 31.8	13 21.3	
19 M	11 53 6.7	26 26.4	16 2.2	16 2.0	8 47.8	26 12.7	11 2.7	4 12.6	25 1.0	9 25.9	13 32.6	13 23.5	
20 T	11 57 3.2	27 25.0	15 59.0	0=32.5	9 36.5	27 25.4	11 37.0	4 18.9	25 7.9	9 28.9	13 33.4	13 25.8	
21 W	12 0 59.8	28 23.5	15 55.8	14 40.9	10 33.2	28 38.3	12 11.1	4 25.0	25 14.7	9 31.9	13 34.2	13 28.1	
22 T	12 4 56.3	29 22.4	15 52.6	28 42.8	11 37.2	29 51.1	12 45.1	4 31.0	25 21.6	9 35.0	13 35.1	13 30.4	
23 F	12 8 52.9	0=21.1	15 49.4	12=36.2	12 47.9	1W 41.1	13 18.9	4 36.8	25 28.3	9 38.1	13 36.1	13 32.7	
24 S	12 12 49.4	1 19.8	15 46.3	26 19.0	14 4.7	2 17.1	13 52.5	4 42.5	25 35.1	9 41.2	13 37.0	13 35.0	
25 S	12 16 46.0	2 18.6	15 43.1	9X49.2	15 26.9	3 30.2	14 25.9	4 47.9	25 41.8	9 44.4	13 38.0	13 37.3	
26 M	12 20 42.5	3 17.4	15 39.9	23 5.3	16 53.9	4 43.3	14 59.1	4 53.2	25 48.4	9 47.5	13 39.0	13 39.6	
27 T	12 24 39.1	4 16.3	15 36.7	6W 6.1	18 24.9	5 56.5	15 32.2	4 58.4	25 55.0	9 50.7	13 40.0	13 42.0	
28 W	12 28 35.6	5 15.3	15 33.5	18 51.4	19 58.5	7 9.8	16 5.0	5 3.4	26 1.6	9 54.0	13 41.1	13 44.3	
29 T	12 32 32.2	6 14.0	15 30.4	1V21.5	21 37.1	8 23.1	16 37.7	5 8.2	26 8.1	9 57.2	13 42.2	13 46.3	
30 F	12 36 28.7	7 13.0	15 27.2	13 38.1	23 17.0	9 36.5	17 10.2	5 12.8	26 14.5	10 0.5	13 43.3	13 49.0	
1 T	10 42 8.7	8N13.2	6S40.5	8N25.2	1N27.1	18N59.0	23N28.9	23N 1.7	14N53.3	13S59.7	20S56.4	10N15.3	
4 S	10 53 58.4	7 7.3	6 36.8	16 33.3	2 56.5	18 15.0	23 31.1	14 46.2	14 2.1	20 56.6	10 12.3		
7 W	11 5 48.0	6 7.0	6 33.2	18 12.0	4 39.7	17 26.3	23 31.9	23 1.1	14 39.2	14 4.5	20 56.9	10 9.2	
10 S	11 17 37.7	4 52.4	6 29.5	12 35.9	6 19.7	16 33.2	23 31.3	23 0.7	14 32.3	14 7.1	20 57.3	10 6.2	
13 T	11 29 27.3	3 45.8	6 25.8	3 40.0	3 40.0	15 35.8	23 30.7	23 0.3	14 25.4	14 9.8	20 57.6	10 3.1	
16 F	11 41 17.0	2 34.6	6 22.2	11S10.7	8 28.3	14 34.3	23 29.3	22 59.8	14 18.7	14 12.6	20 58.1	10 0.1	
19 M	11 53 6.7	1 24.9	6 18.5	18 9.5	8 38.4	13 29.1	23 20.0	22 59.3	14 12.0	14 15.4	20 58.5	9 57.2	
22 T	12 4 56.3	0 15.6	6 14.8	15 24.1	8 10.1	12 20.5	23 16.5	22 58.8	14 5.4	14 18.4	20 59.0	9 54.2	
25 S	12 16 46.0	0S55.1	6 11.2	5 3.1	7 6.9	11 8.5	23 10.1	22 58.4	13 59.0	14 21.4	20 59.5	9 51.4	
28 W	12 28 35.6	2 5.2	6 7.5	7N 4.5	5 35.7	9 53.7	23 2.7	22 57.9	13 52.7	14 24.5	20 60.0	9 48.5	

OCTOBER 1977

DAY	EPHEMERIS SIDEREAL TIME	LONGITUDE at NOON											
		♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
1 S	12 40 25.3	8=11.9	15=24.0	25V43.2	24W59.0	10W49.9	17=42.5	5=17.3	26=20.9	10= 3.8	13=44.5	13=51.3	
2 S	12 44 21.8	9 11.0	15 20.8	7X40.1	26 42.5	12 3.4	18 14.6	5 21.6	26 27.2	10 7.2	13 45.7	13 53.7	
3 M	12 48 18.4	10 10.0	15 17.7	19 32.4	28 27.2	17 17.0	18 46.5	5 25.7	26 35.5	10 10.5	13 46.9	13 56.6	
4 T	12 52 14.9	11 9.1	15 14.5	15=24.4	0=12.7	14 30.6	19 18.1	5 29.6	26 39.7	10 13.9	13 48.1	13 58.4	
5 W	12 56 11.5	12 8.3	15 11.3	13 20.6	1 58.8	15 44.4	19 49.7	5 33.4	26 46.0	10 17.4	13 49.5	14 0.8	
6 T	13 0 8.0	13 7.4	15 8.1	25 27.6	3 45.2	16 58.1	20 20.9	5 37.0	26 52.1	10 20.8	13 50.8	14 3.1	
7 F	13 4 4.6	14 6.6	15 4.9	7=44.1	5 31.8	18 11.9	20 51.9	5 40.3	26 58.1	10 24.2	13 52.1	14 5.5	
8 S	13 8 1.1	15 5.9	15 1.8	20 20.2	7 18.3	19 25.8	21 22.7	5 43.5	27 4.1	10 27.7	13 53.4	14 7.8	
9 S	13 11 57.7	16 5.2	14 58.6	3W16.5	9 4.7	20 39.7	21 53.3	5 46.5	27 10.1	10 31.2	13 54.8	14 10.2	
10 M	13 15 54.2	17 4.5	14 55.4	16 35.5	10 50.7	21 53.7	22 23.6	5 49.4	27 15.9	10 34.7	13 56.2	14 12.6	
11 T	13 19 50.8	18 3.8	14 52.2	0=17.2	12 36.4	23 7.7	22 53.7	5 52.0	27 21.7	10 38.2	13 57.7	14 14.9	
12 W	13 23 47.3	19 3.2	14 49.1	14 20.1	14 21.6	24 21.7	23 23.5	5 54.4	27 27.5	10 41.8	13 59.1	14 17.3	
13 T	13 27 43.9	20 2.7	14 45.9	28 40.7	16 6.4	25 35.8	23 53.1	5 56.7	27 33.1	10 45.3	14 0.6	14 19.6	
14 F	13 31 40.5	21 2.1	14 42.7	13W13.7	17 50.5	26 50.0	24 22.4	5 58.7	27 38.7	10 48.9	14 2.1	14 22.0	
15 S	13 35 37.0	22 1.6	14 39.5	27 52.9	19 34.1	28 4.2	24 51.5	6 0.6	27 44.3	10 52.5	14 3.7	14 24.3	
16 S	13 39 33.6	23 1.1	14 36.3	12=31.8	21 17.1	29 18.4	25 20.3	6 2.3	27 49.7	10 56.1	14 5.2	14 26.7	
17 M	13 43 30.1	24 0.7	14 33.2	27 4.6	22 59.4	30=32.7	25 48.8	6 3.7	27 55.1	10 59.7	14 6.8	14 29.0	
18 T	13 47 26.6	25 0.2	14 30.0	11=26.4	24 41.1	1 47.0	26 17.1	6 5.0	28 0.4	11 3.4	14 8.4	14 31.3	
19 W	13 51 23.2	25 59.9	14 26.8	25 34.3	26 22.2	3 1.4	26 45.0	6 6.1	28 5.7	11 7.0	14 10.1	14 33.6	
20 T	13 55 19.8	26 59.5	14 23.6	9=26.5	28 2.7	4 15.8	27 12.7	6 7.6	28 10.8	11 10.7	14 11.7	14 36.0	
21 F	13 59 16.3	27 59.2	14 20.5	23 2.7	29 42.5	5 30.2	27 40.1	6 7.9	28 15.9	11 14.3	14 13.4	14 38.3	
22 S	14 3 12.9	28 58.8	14 17.3	6X23.3	1=21.7	6 44.7	28 7.3	6 8.1	28 20.9	11 18.0	14 15.1	14 40.6	
23 S	14 7 9.4	29 58.6	14 14.1	19 29.3	3 0.4	7 59.2	28 34.1	6 8.4	28 25.9	11 21.7	14 16.9	14 42.9	
24 M	14 11 6.0	0=58.3	14 10.9	2V21.2	4 38.4	9 13.7	29 0.6	6 8.4	28 30.7	11 25.4	14 18.6	14 45.2	
25 T	14 15 2.5	1 58.1	14 7.7	15 0.7	6 15.9	10 28.3	29 26.8	6R 8.3	28 35.5	11 29.1	14 20.4	14 47.4	
26 W	14 18 59.1	2 58.0	14 4.6	27 28.8	7 52.8	11 42.9	29 52.7	6 8.1	28 40.3	11 32.9	14 22.2	14 49.8	
27 T	14 22 55.6	3 57.8	14 1.4	9V46.3	9 29.2	12 57.6	0=18.3	6 7.5	28 44.9	11 36.6	14 24.0	14 52.0	
28 F	14 26 52.2	4 57.7	13 58.2	21 54.6	11 5.0	14 12.3	0 43.5	6 6.8	28 49.4	11 40.3	14 25.9	14 54.3	
29 S	14 30 48.7	5 57.6	13 55.0	3X55.2	12 40.4	15 27.0	1 8.4	6 5.9	28 53.9	11 44.1	14 27.7	14 56.5	
30 S	14 34 45.3	6 57.5	13 51.9	15 49.9	14 15.3	16 41.8	1 33.0	6 4.8	28 58.2	11 47.8	14 29.6	14 58.7	
31 M	14 38 41.9	7 57.5	13 48.7	27 41.4	15 49.7	17 56.5	1 57.2	6 3.4	29 2.5	11 51.6	14 31.5	15 1.0	
1 S	12 40 25.3	3S15.1	6S 3.8	15N50.9	3N43.9	18N36.2	22N54.5	22N57.5	13N46.5	14S27.6	21S 0.5	9N45.8	
4 T	12 52 14.9	4 24.8	6 0.2	18 17.8	1 38.6	7 16.3	22 45.5	22 57.2	13 40.5	14 30.8	21 1.1	9 43.1	
7 W	13 4 4.6	5 33.9	5 56.5	13 36.3	0S34.1	5 54.4	22 35.8	22 56.9	13 34.7	14 34.1	21 1.7	9 40.4	
10 M	13 15 54.2	6 42.4	5 52.8	2 56.9	2 49.9	4 30.7	22 25.6	22 56.6	13 29.0	14 37.4	21 2.4	9 37.9	
13 T	13 27 43.9	7 50.2	5 49.1	9S51.4	5 5.7	3 5.7	22 14.9	22 56.4	13 23.6	14 40.2	21 3.0	9 35.4	
16 F	13 39 33.6	8 56.9	5 45.4	17 53.2	5 5.4	4 19.1	22 3.8	22 56.3	13 18.3	14 42.2	21 3.7	9 33.0	
19 W	13 51 23.2	10 5.5	5 41.7										