

A sample page from:

# The New American Ephemeris for the 20th Century

## 1900-2000 at Midnight

Two months per page, Moon given twice daily. Note Ceres between Mars & Jupiter. At the bottom of the page under "Astro Data", monthly positions for GC (Galactic Center), Eris, Chiron, Pallas, Juno & Vesta. Eclipses are shown by tiny conjunction (Solar) and opposition (Lunar) symbols. This page shows two solar & one lunar (marked below).

### July 2000

### LONGITUDE

Day	Sid.Time	☉	0 hr ☾	Noon ☽	True♃	♄	♅	♆	♇	♁	♂	♆	♁	♂	♆	♁	♂
1 Sa	18 37 25	9♄28 01	28II 00 28	5♄35 35	24♄37.3	17♄54.2	14♄50.2	9♄39.5	3♄47.2	0II08.6	26♄38.5	20♄18.4	5♄52.6	10♄47.4			
2 Su	18 41 21	10 25 15	13♄11 30	20 46 59	24D 36.4	17R 22.8	16 03.9	10 19.3	4 03.8	0 21.0	26 44.9	20R 16.8	5R 51.2	10R 46.0			
3 M	18 45 18	11 22 29	28 20 53	5♄52 05	24 36.2	16 49.1	17 17.7	10 59.0	4 20.6	0 33.4	26 51.2	20 15.1	5 49.8	10 44.7			
4 Tu	18 49 14	12 19 43	13♄19 34	20 42 29	24 36.7	16 13.6	18 31.4	11 38.7	4 37.5	0 45.7	26 57.4	20 13.4	5 48.3	10 43.4			
5 W	18 53 11	13 16 56	28 00 07	5♄11 56	24 37.5	15 37.0	19 45.2	12 18.4	4 54.7	0 58.0	27 03.6	20 11.7	5 46.9	10 42.1			
6 Th	18 57 07	14 14 09	12♄17 35	19 16 50	24 38.4	14 59.8	20 59.0	12 58.0	5 12.0	1 10.2	27 09.7	20 09.9	5 45.4	10 40.8			
7 F	19 01 04	15 11 22	26 09 39	2♄56 05	24 39.1	14 22.6	22 12.7	13 37.6	5 29.5	1 22.3	27 15.7	20 08.1	5 43.9	10 39.5			
8 Sa	19 05 00	16 08 34	9♄36 18	16 10 36	24R 39.5	13 46.1	23 26.5	14 17.2	5 47.2	1 34.3	27 21.7	20 06.3	5 42.4	10 38.3			
9 Su	19 08 57	17 05 47	22 39 17	29 02 45	24 39.5	13 10.9	24 40.3	14 56.7	6 05.0	1 46.2	27 27.7	20 04.4	5 40.9	10 37.0			
10 M	19 12 54	18 02 59	5♄21 26	11♄35 45	24 39.2	12 37.7	25 54.0	15 36.2	6 23.0	1 58.1	27 33.5	20 02.5	5 39.3	10 35.8			
11 Tu	19 16 50	19 00 11	17 46 11	23 53 10	24 38.6	12 07.1	27 07.8	16 15.7	6 41.2	2 09.9	27 39.3	20 00.6	5 37.8	10 34.7			
12 W	19 20 47	19 57 24	29 57 09	5♄58 33	24 38.1	11 39.5	28 21.5	16 55.1	6 59.6	2 21.6	27 45.1	19 58.7	5 36.3	10 33.5			
13 Th	19 24 43	20 54 36	11♄57 48	17 55 17	24 37.5	11 15.6	29 35.3	17 34.5	7 18.1	2 33.2	27 50.8	19 56.7	5 34.7	10 32.4			
14 F	19 28 40	21 51 48	23 51 23	29 46 26	24 37.1	10 55.7	0♄49.1	18 13.9	7 36.7	2 44.8	27 56.4	19 54.7	5 33.2	10 31.2			
15 Sa	19 32 36	22 49 01	5♄40 47	11♄34 45	24 36.9	10 40.2	2 02.8	18 53.3	7 55.5	2 56.2	28 01.9	19 52.7	5 31.6	10 30.1			
16 Su	19 36 33	23 46 14	17 28 37	23 22 43	24 36.9	10 29.6	3 16.6	19 32.6	8 14.5	3 07.6	28 07.4	19 50.6	5 30.0	10 29.1			
17 M	19 40 29	24 43 27	29 17 18	5♄12 39	24 36.8	10D 24.0	4 30.4	20 11.8	8 33.6	3 18.9	28 12.8	19 48.6	5 28.4	10 28.0			
18 Tu	19 44 26	25 40 40	11♄09 05	17 06 51	24 36.8	10 23.7	5 44.1	20 51.1	8 52.8	3 30.1	28 18.2	19 46.5	5 26.8	10 27.0			
19 W	19 48 23	26 37 54	23 06 15	29 07 37	24 36.7	10 28.9	6 57.9	21 30.3	9 12.2	3 41.2	28 23.4	19 44.3	5 25.2	10 26.0			
20 Th	19 52 19	27 35 09	5♄11 14	11♄17 26	24 36.4	10 39.7	8 11.7	22 09.5	9 31.7	3 52.2	28 28.6	19 42.2	5 23.6	10 25.0			
21 F	19 56 16	28 32 24	17 26 35	23 39 01	24 36.0	10 56.1	9 25.4	22 48.7	9 51.4	4 03.2	28 33.8	19 40.0	5 22.0	10 24.1			
22 Sa	20 00 12	29 29 40	29 55 07	6♄15 13	24 35.5	11 18.3	10 39.2	23 27.8	10 11.2	4 14.0	28 38.8	19 37.8	5 20.4	10 23.2			
23 Su	20 04 09	0♄26 57	12♄39 43	19 08 58	24 35.0	11 46.3	11 53.0	24 06.9	10 31.1	4 24.7	28 43.8	19 35.6	5 18.8	10 22.3			
24 M	20 08 05	1 24 14	25 43 16	2♄22 57	24D 34.7	12 20.1	13 06.8	24 46.0	10 51.1	4 35.3	28 48.7	19 33.4	5 17.1	10 21.4			
25 Tu	20 12 02	2 21 33	9♄08 14	15 59 19	24 34.7	12 59.6	14 20.6	25 25.1	11 11.3	4 45.9	28 53.5	19 31.2	5 15.5	10 20.6			
26 W	20 15 58	3 18 52	22 56 17	29 59 08	24 35.1	13 44.8	15 34.3	26 04.1	11 31.6	4 56.3	28 58.3	19 29.9	5 13.9	10 19.8			
27 Th	20 19 55	4 16 12	7II07 42	14II21 45	24 35.8	14 35.7	16 48.1	26 43.1	11 52.1	5 06.6	29 03.0	19 26.6	5 12.3	10 19.0			
28 F	20 23 52	5 13 34	21 40 51	29 04 27	24 36.6	15 32.1	18 01.9	27 22.1	12 12.7	5 16.9	29 07.6	19 24.4	5 10.6	10 18.2			
29 Sa	20 27 48	6 10 56	6♄31 49	14♄52 06	24 37.4	16 34.1	19 15.7	28 01.1	12 33.3	5 27.0	29 12.1	19 22.1	5 09.0	10 17.5			
30 Su	20 31 45	7 08 20	21 34 20	29 07 28	24R 37.7	17 41.4	20 29.5	28 40.0	12 54.1	5 37.0	29 16.5	19 19.7	5 07.4	10 16.8			
31 M	20 35 41	8 05 44	6♄40 21	14II11 52	24 37.5	18 54.0	21 43.3	29 18.9	13 15.1	5 46.9	29 20.9	19 17.4	5 05.8	10 16.1			

### August 2000

### LONGITUDE

Day	Sid.Time	☉	0 hr ☾	Noon ☽	True♃	♄	♅	♆	♇	♁	♂	♆	♁	♂	♆	♁	♂
1 Tu	20 39 38	9♄03 09	21♄40 55	29♄06 27	24♄36.6	20♄11.7	22♄15.1	29♄57.8	13♄36.1	5II56.7	29♄25.2	19♄15.1	5♄04.1	10♄15.5			
2 W	20 43 34	10 00 35	6♄27 32	13♄43 23	24R 35.1	21 34.4	24 10.9	0♄36.7	13 57.3	6 06.4	29 29.3	19R 12.7	5R 02.5	10R 14.9			
3 Th	20 47 31	10 58 01	20 53 21	27 56 58	24 33.1	23 01.8	25 24.7	1 15.5	14 18.5	6 15.9	29 33.4	19 10.4	5 00.9	10 14.3			
4 F	20 51 27	11 55 28	4♄53 56	11♄44 07	24 31.0	24 33.9	26 38.5	1 54.3	14 39.9	6 25.3	29 37.4	19 08.0	4 59.3	10 13.7			
5 Sa	20 55 24	12 52 56	18 27 31	25 04 19	24 29.1	26 10.2	27 52.3	2 33.1	15 01.4	6 34.7	29 41.4	19 05.6	4 57.7	10 13.2			
6 Su	20 59 21	13 50 25	1♄34 45	7♄59 14	24 27.8	27 50.6	29 06.1	3 11.8	15 22.9	6 43.9	29 45.2	19 03.3	4 56.0	10 12.7			
7 M	21 03 17	14 47 54	14 18 10	20 32 04	24D 27.3	29 34.7	0♄19.9	3 50.6	15 44.6	6 52.9	29 48.9	19 00.9	4 54.4	10 12.3			
8 Tu	21 07 14	15 45 24	26 41 28	2♄46 58	24 27.7	1♄23.3	1 33.6	4 29.3	16 06.4	7 01.9	29 52.6	18 58.5	4 52.8	10 11.8			
9 W	21 11 10	16 42 55	8♄49 06	14 48 29	24 28.9	3 13.0	2 47.4	5 07.9	16 28.3	7 10.7	29 56.2	18 56.1	4 51.3	10 11.4			
10 Th	21 15 07	17 40 27	20 45 39	26 41 11	24 30.5	5 06.3	4 01.2	5 46.6	16 50.2	7 19.4	29 59.7	18 53.7	4 49.7	10 11.1			
11 F	21 19 03	18 38 00	21♄35 35	8♄19 23	24 32.1	7 02.0	5 14.9	6 25.2	17 12.3	7 28.0	0♄03.0	18 51.3	4 48.1	10 10.7			
12 Sa	21 23 00	19 35 33	14 23 01	20 16 56	24R 33.3	8 59.7	6 28.7	7 03.8	17 34.5	7 36.4	0 06.3	18 48.9	4 46.5	10 10.4			
13 Su	21 26 56	20 33 08	26 11 33	2♄07 13	24 33.7	10 58.9	7 42.4	7 42.4	17 56.7	7 44.7	0 09.5	18 46.5	4 45.0	10 10.2			
14 M	21 30 53	21 30 44	8♄04 15	14 02 57	24 32.9	12 59.3	8 56.2	8 20.9	18 19.0	7 52.9	0 12.6	18 44.1	4 43.4	10 09.9			
15 Tu	21 34 50	22 28 21	20 03 36	26 06 24	24 30.8	15 06.6	10 09.9	8 59.5	18 41.4	8 00.9	0 15.6	18 41.7	4 41.9	10 09.7			
16 W	21 38 46	23 25 59	2♄11 34	8♄19 17	24 27.4	17 02.4	11 23.6	9 38.0	19 04.0	8 08.8	0 18.6	18 39.4	4 40.4	10 09.5			
17 Th	21 42 43	24 23 38	14 29 42	20 42 59	24 22.9	19 04.4	12 37.4	10 16.5	19 26.5	8 16.6	0 21.4	18 37.0	4 38.9	10 09.4			
18 F	21 46 39	25 21 19	26 59 15	3♄18 39	24 17.8	21 06.4	13 51.1	10 54.9	19 49.2	8 24.2	0 24.1	18 34.6	4 37.4	10 09.3			
19 Sa	21 50 36	26 19 01	9♄41 18	16 07 20	24 17.2	23 08.0	15 04.8	11 33.4	20 12.0	8 31.7	0 26.7	18 32.2	4 35.9	10 09.2			
20 Su	21 54 32	27 16 45	22 36 54	29 10 07	24 08.2	25 09.2	16 18.5	12 11.8	20 34.8	8 39.0	0 29.2	18 29.9	4 34.4	10D 09.1			
21 M	21 58 29	28 14 30	5♄47 09	12♄28 07	24 04.8	27 09.8	17 32.2	12 50.2	20 57.7	8 46.2	0 31.7	18 27.5	4 32.9	10 09.1			
22 Tu	22 02 25	29 12 17	19 13 09	26 02 22	24D 02.9	29 09.5	18 45.9	13 28.6	21 20.7	8 53.2	0 34.0	18 25.2	4 31.5	10 09.1			
23 W	22 06 22	0♄10 06	2II55 50	9II53 37	24 02.5	1♄08.3	19 59.6	14 06.9	21 43.7	9 00.1	0 36.2	18 22.8	4 30.0	10 09.2			
24 Th	22																