



Astrodienst Ephemeris Tables for the year 1661

tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris
Code D5EPX

ASTRODIENST EPHEMERIS for the year 1661
geocentric

JANUARY 1661 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 44 14	11°31'56	9°31'5	24°R45	27°M47	26°♂31	12°♂47	20°M44	28°♂58	8°♂48	20°R51	22°R 9	21°♂37	29°♂45	20°♂19	S 1
S 2	6 48 11	12°13'08	24° 3	24°♂12	28°57	27°16	12°51	20°49	29° 2	8°51	20°II50	21°♂57	21°34	29°52	20°24	S 2
M 3	6 52 8	13°14'19	8°♂59	23°27	0°♂ 7	28° 1	12°56	20°55	29° 5	8°53	20°49	21°45	21°31	29°59	20°30	M 3
T 4	6 56 4	14°15'30	23°52	22°32	1°17	28°46	13° 0	21° 0	29° 9	8°55	20°48	21°36	21°28	0°♂ 5	20°35	T 4
W 5	7 0 1	15°16'41	8°♂34	21°28	2°28	29°31	13° 5	21° 5	29°12	8°57	20°47	21°29	21°25	0°12	20°40	W 5
T 6	7 3 57	16°17'50	23° 1	20°17	3°39	0°♂16	13° 9	21°10	29°15	9° 0	20°46	21°26	21°21	0°19	20°46	T 6
F 7	7 7 54	17°19'00	7°♂ 9	19° 1	4°49	1° 1	13°13	21°15	29°19	9° 2	20°45	21°24	21°18	0°25	20°51	F 7
S 8	7 11 50	18°20'08	20°58	17°42	6° 0	1°46	13°16	21°20	29°22	9° 4	20°44	21°24	21°15	0°32	20°57	S 8
S 9	7 15 47	19°21'16	4°♂28	16°22	7°11	2°31	13°20	21°25	29°26	9° 6	20°43	21°24	21°12	0°39	21° 2	S 9
M10	7 19 43	20°22'23	17°42	15° 6	8°22	3°17	13°23	21°30	29°29	9° 9	20°41	21°22	21° 9	0°46	21° 7	M10
T 11	7 23 40	21°23'29	0°II41	13°53	9°33	4° 2	13°26	21°34	29°33	9°11	20°40	21°18	21° 5	0°52	21°13	T 11
W12	7 27 37	22°24'35	13°29	12°47	10°44	4°47	13°29	21°39	29°36	9°13	20°39	21°11	21° 2	0°59	21°18	W12
T 13	7 31 33	23°25'39	26° 6	11°49	11°55	5°32	13°32	21°44	29°40	9°15	20°39	21° 0	20°59	1° 6	21°24	T 13
F 14	7 35 30	24°26'43	8°♂33	11° 0	13° 7	6°18	13°35	21°48	29°43	9°18	20°38	20°47	20°56	1°12	21°29	F 14
S 15	7 39 26	25°27'47	20°52	10°19	14°18	7° 3	13°37	21°53	29°47	9°20	20°37	20°33	20°53	1°19	21°34	S 15
S 16	7 43 23	26°28'49	3°♂ 1	9°48	15°30	7°48	13°40	21°57	29°50	9°22	20°36	20°18	20°50	1°26	21°40	S 16
M17	7 47 19	27°29'51	15° 3	9°26	16°41	8°34	13°42	22° 1	29°54	9°24	20°35	20° 4	20°46	1°32	21°45	M17
T 18	7 51 16	28°30'53	26°58	9°13	17°53	9°19	13°44	22° 5	29°57	9°26	20°34	19°52	20°43	1°39	21°51	T 18
W19	7 55 12	29°31'53	8°♂48	9°D 9	19° 5	10° 5	13°45	22° 9	0°♂ 1	9°28	20°33	19°43	20°40	1°46	21°56	W19
T 20	7 59 9	0°♂32'53	20°36	9°12	20°16	10°50	13°47	22°13	0° 4	9°31	20°32	19°37	20°37	1°52	22° 1	T 20
F 21	8 3 6	1°33'52	2°♂26	9°23	21°28	11°36	13°48	22°17	0° 8	9°33	20°31	19°33	20°34	1°59	22° 7	F 21
S 22	8 7 2	2°34'51	14°21	9°41	22°40	12°22	13°50	22°21	0°11	9°35	20°30	19°32	20°30	2° 6	22°12	S 22
S 23	8 10 59	3°35'48	26°28	10° 6	23°52	13° 7	13°51	22°25	0°15	9°37	20°30	19°D32	20°27	2°13	22°17	S 23
M24	8 14 55	4°36'46	8°♂50	10°36	25° 4	13°53	13°51	22°29	0°18	9°39	20°29	19°R32	20°24	2°19	22°23	M24
T 25	8 18 52	5°37'42	21°35	11°12	26°17	14°39	13°52	22°32	0°22	9°41	20°28	19°31	20°21	2°26	22°28	T 25
W26	8 22 48	6°38'38	4°♂45	11°52	27°29	15°24	13°52	22°36	0°26	9°43	20°27	19°28	20°18	2°33	22°33	W26
T 27	8 26 45	7°39'33	18°25	12°37	28°41	16°10	13°53	22°39	0°29	9°45	20°26	19°22	20°15	2°39	22°38	T 27
F 28	8 30 41	8°40'27	2°♂35	13°25	29°53	16°56	13°R53	22°43	0°33	9°47	20°26	19°14	20°11	2°46	22°44	F 28
S 29	8 34 38	9°41'21	17°13	14°18	1°♂ 6	17°42	13°53	22°46	0°36	9°50	20°25	19° 4	20° 8	2°53	22°49	S 29
S 30	8 38 35	10°42'13	2°♂13	15°13	2°18	18°28	13°52	22°49	0°39	9°52	20°24	18°53	20° 5	2°59	22°54	S 30
M31	8 42 31	11°43'04	17°♂25	16°♂12	3°♂30	19°♂14	13°♂52	22°♂52	0°♂43	9°♂54	20°II23	18°♂43	20°♂ 2	3°♂ 6	22°♂59	M31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑	♒	♓	♈	♉		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat		
S 1	23s 0	18s17	4n53	20s 9	1n 4	17s13	2n32	24s 0	0s34	3s50	1n20	15s55	2n 8	20s56	0s33	22s20	0n51	15n45	7s26	8s38	8s27	7n47	15s34	6n27
S 2	22 55	16 24	5 0	19 56	1 24	17 30	2 31	24 2	0 34	3 51	1 20	15 56	2 8	20 55	0 33	22 20	0 51	15 45	7 26	8 34	8 25	7 45	15 33	6 27
M 3	22 49	13 25	4 47	19 45	1 43	17 47	2 29	24 3	0 35	3 53	1 20	15 57	2 8	20 55	0 33	22 20	0 51	15 45	7 26	8 30	8 24	7 43	15 32	6 27
T 4	22 43	9 35	4 15	19 36	2 1	18 3	2 28	24 4	0 36	3 54	1 21	15 59	2 8	20 54	0 33	22 20	0 51	15 45	7 26	8 26	8 23	7 41	15 32	6 27
W 5	22 36	5 11	3 26	19 28	2 19	18 18	2 26	24 5	0 36	3 56	1 21	16 0	2 8	20 53	0 33	22 20	0 51	15 45	7 26	8 24	8 22	7 40	15 31	6 27
T 6	22 29	0 34	2 24	19 23	2 35	18 33	2 24	24 6	0 37	3 57	1 21	16 1	2 8	20 52	0 33	22 19	0 51	15 45	7 26	8 22	8 21	7 38	15 30	6 27
F 7	22 21	3n59	1 15	19 20	2 50	18 48	2 22	24 6	0 37	3 58	1 21	16 2	2 8	20 52	0 33	22 19	0 51	15 45	7 26	8 22	8 19	7 36	15 29	6 27
S 8	22 13	8 14	0 2	19 18	3 2	19 3	2 20	24 6	0 38	4 0	1 22	16 3	2 9	20 51	0 33	22 19	0 51	15 45	7 26	8 22	8 18	7 34	15 28	6 27
S 9	22 5	11 57	1s 8	19 18	3 12	19 17	2 18	24 6	0 39	4 1	1 22	16 4	2 9	20 50	0 33	22 19	0 51	15 45	7 25	8 22	8 17	7 32	15 28	6 27
M10	21 56	14 59	2 14	19 19	3 20	19 30	2 16	24 6	0 39	4 2	1 22	16 6	2 9	20 49	0 33	22 19	0 51	15 45	7 25	8 21	8 16	7 31	15 27	6 27
T 11	21 47	17 12	3 11	19 22	3 25	19 43	2 14	24 5	0 40	4 3	1 23	16 7	2 9	20 49	0 33	22 19	0 51	15 45	7 25	8 19	8 15	7 29	15 26	6 27
W12	21 37	18 31	3 58	19 26	3 27	19 55	2 11	24 4	0 40	4 4	1 23	16 8	2 9	20 48	0 33	22 19	0 51	15 45	7 25	8 17	8 13	7 27	15 25	6 27
T 13	21 27	18 53	4 32	19 31	3 27	20 7	2 9	24 3	0 41	4 5	1 23	16 9	2 9	20 47	0 33	22 18	0 51	15 45	7 25	8 13	8 12	7 25	15 24	6 27
F 14	21 16	18 20	4 53	19 37	3 25	20 19	2 7	24 1	0 41	4 5	1 23	16 10	2 10	20 47	0 33	22 18	0 51	15 45	7 25	8 8	8 11	7 23	15 24	6 27
S 15	21 5	16 55	5 0	19 44	3 21	20 30	2 4	24 0	0 42	4 6	1 24	16 11	2 10	20 46	0 33	22 18	0 51	15 45	7 25	8 2	8 10	7 22	15 23	6 27
S 16	20 54	14 46	4 52	19 51	3 16	20 40	2 2	23 58	0 43	4 7	1 24	16 12	2 10	20 45	0 33	22 18	0 51	15 45	7 24	7 57	8 9	7 20	15 22	6 27
M17	20 42	12 1	4 32	20 0	3 9	20 50	1 59	23 55	0 43	4 7	1 24	16 13	2 10	20 44	0 33	22 18	0 51	15 46	7 24	7 52	8 7	7 18	15 21	6 27
T 18	20 30	8 47	4 0	20 8	3 2	21 0	1 56	23 53	0 44	4 8	1 24	16 14	2 10	20 44	0 33	22 18	0 51	15 46	7 24	7 47	8 6	7 16	15 20	6 27
W19	20 17	5 14	3 18	20 17	2 53	21 9	1 54	23 50	0 44	4 8	1 25	16 14	2 10	20 43	0 33	22 17	0 51	15 46	7 24	7 44	8 5	7 14	15 19	6 27
T 20	20 4	1 29	2 27	20 26	2 44	21 17	1 51	23 47	0 45	4 9	1 25	16 15	2 10	20 42	0 33	22 17	0 51	15 46	7 24	7 41	8 4	7 12	15 18	6 27
F 21	19 51	2s20	1 29	20 35	2 34	21 25	1 48	23 44	0 45	4 9	1 25	16 16	2 11	20 41	0 33	22 17	0 51	15 46	7 24	7 40	8 3	7 11	15 17	6 27
S 22	19 37	6 5	0 27	20 44	2 24	21 32	1 45	23 40	0 46	4 9	1 25	16 17	2 11	20 41	0 33	22 17	0 51	15 46	7 24	7 39	8 1	7 9	15 16	6 27
S 23	19 23	9 39	0n37	20 53	2 13	21 38	1 42	23 36	0 47	4 9	1 26	16 18	2 11	20 40	0 33	22 17	0 51	15 46	7 23	7 39	8 0	7 7	15 16	6 27
M24	19 9	12 53	1 41	21 1	2 3	21 44	1 39	23 32	0 47	4 9	1 26	16 18	2 11	20 39	0 33	22 17	0 51	15 46	7 23	7 39	7 59	7 5	15 15	6 28
T 25	18 54	15 35	2 41	21 9	1 52	21 50	1 36	23 28	0 48	4 9	1 26	16 19	2 11	20 38	0 33	22 17	0 51	15 46	7 23	7 39	7 58	7 3	15 14	6 28
W26	18 39	17 35	3 36	21 16	1 41	21 54	1 33	23 23	0 48	4 9	1 26	16 20	2 11	20 38	0 33	22 16	0 51	15 46	7 23	7 38	7 57	7 2	15 13	6 28
T 27	18 23	18 40	4 20	21 23	1 30	21 58	1 30	23 18	0 49	4 9	1 27	16 21	2 12	20 37	0 33	22 16	0 51	15 47	7 23	7 36	7 55	7 0	15 12	6 28
F 28	18 7	18 37	4 50	21 29	1 19	22 2	1 27	23 13	0 49	4 9	1 27	16 21	2 12	20 36	0 33	22 16	0 51	15 47	7 22	7 33	7 54	6 58	15 11	6 28
S 29	17 51	17 22	5 2	21 34	1 9	22 5	1 24	23 8	0 50	4 9	1 27	16 22	2 12	20 35	0 33	22 16	0 51	15 47	7 22	7 29	7 53	6 56	15 10	6 28
S 30	17 35	14 55	4 54	21 39	0 58	22 7	1 21	23 2	0 50	4 8	1 28	16 23	2 12	20 35	0 33	22 16	0 51	15 47	7 22	7 25	7 52	6 54	15 9	6 28
M31	17s18	11s25	4n26	21s42	0n48	22s 9	1n17	22s56	0s51	4s 8	1n28	16s23	2n12	20s34	0s33	22s16	0n51	15n47	7s22	7s21	7s51	6n52	15s 8	6n29

ASTRODIENST EPHEMERIS for the year 1661

geocentric

FEBRUARY 1661 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 46 28	12 ⁴³ 54	2 ³⁸ 38	17 ¹⁴ 14	4 ⁴³ 43	20 ⁰ 0	13 ⁰ 51	22 ⁵⁵ 55	0 ⁴⁶ 46	9 ⁵⁶ 56	20 ⁰ 23	18 ⁰ 34	19 ⁵⁹ 59	3 ¹³ 13	23 ⁰ 4	T 1
W 2	8 50 24	13 ⁴⁴ 42	17 ⁴³ 43	18 ¹⁷ 17	5 ⁵⁵ 55	20 ⁴⁶ 46	13 ⁵⁰ 50	22 ⁵⁸ 58	0 ⁵⁰ 50	9 ⁵⁸ 58	20 ¹¹ 22	18 ⁵⁸ 28	19 ⁵⁶ 56	3 ¹⁹ 19	23 ¹⁰ 10	W 2
T 3	8 54 21	14 ⁴⁵ 29	2 ³⁰ 30	19 ²⁴ 24	7 ⁸ 8	21 ³² 32	13 ⁴⁹ 49	23 ⁰ 1	0 ⁵³ 53	9 ⁵⁹ 59	20 ²² 22	18 ²⁵ 25	19 ⁵² 52	3 ²⁶ 26	23 ¹⁵ 15	T 3
F 4	8 58 17	15 ⁴⁶ 14	16 ⁵⁴ 54	20 ³² 32	8 ²¹ 21	22 ¹⁸ 18	13 ⁴⁸ 48	23 ⁰ 3	0 ⁵⁷ 57	10 ⁰ 1	20 ²¹ 21	18 ⁰ D24	19 ⁴⁹ 49	3 ³³ 33	23 ²⁰ 20	F 4
S 5	9 2 14	16 ⁴⁶ 58	0 ⁵⁴ 54	21 ⁴³ 43	9 ³³ 33	23 ⁰ 4	13 ⁴⁶ 46	23 ⁰ 6	1 ⁰ 0	10 ⁰ 3	20 ²⁰ 20	18 ²⁴ 24	19 ⁴⁶ 46	3 ³⁹ 39	23 ²⁵ 25	S 5
S 6	9 6 10	17 ⁴⁷ 40	14 ²⁸ 28	22 ⁵⁵ 55	10 ⁴⁶ 46	23 ⁵⁰ 50	13 ⁴⁴ 44	23 ⁰ 8	1 ⁰ 4	10 ⁰ 5	20 ²⁰ 20	18 ⁰ R25	19 ⁴³ 43	3 ⁴⁶ 46	23 ³⁰ 30	S 6
M 7	9 10 7	18 ⁴⁸ 21	27 ⁴¹ 41	24 ⁰ 9	11 ⁵⁹ 59	24 ³⁶ 36	13 ⁴³ 43	23 ¹¹ 11	1 ⁰ 7	10 ⁰ 7	20 ¹⁹ 19	18 ²⁵ 25	19 ⁴⁰ 40	3 ⁵³ 53	23 ³⁵ 35	M 7
T 8	9 14 4	19 ⁴⁸ 59	10 ¹¹ 34	25 ²⁵ 25	13 ¹¹ 11	25 ²² 22	13 ⁴¹ 41	23 ¹³ 13	1 ¹⁰ 10	10 ⁰ 9	20 ¹⁹ 19	18 ²² 22	19 ³⁶ 36	4 ⁰ 0	23 ⁴⁰ 40	T 8
W 9	9 18 0	20 ⁴⁹ 36	23 ¹⁰ 10	26 ⁴² 42	14 ²⁴ 24	26 ⁰ 8	13 ³⁸ 38	23 ¹⁵ 15	1 ¹⁴ 14	10 ¹¹ 11	20 ¹⁸ 18	18 ¹⁸ 18	19 ³³ 33	4 ⁰ 6	23 ⁴⁵ 45	W 9
T 10	9 21 57	21 ⁵⁰ 12	5 ³⁴ 34	28 ⁰ 1	15 ³⁷ 37	26 ⁵⁴ 54	13 ³⁶ 36	23 ¹⁷ 17	1 ¹⁷ 17	10 ¹³ 13	20 ¹⁸ 18	18 ¹¹ 11	19 ³⁰ 30	4 ¹³ 13	23 ⁵⁰ 50	T 10
F 11	9 25 53	22 ⁵⁰ 45	17 ⁴⁸ 48	29 ²¹ 21	16 ⁵⁰ 50	27 ⁴¹ 41	13 ³³ 33	23 ¹⁹ 19	1 ²⁰ 20	10 ¹⁴ 14	20 ¹⁷ 17	18 ⁰ 1	19 ²⁷ 27	4 ²⁰ 20	23 ⁵⁵ 55	F 11
S 12	9 29 50	23 ⁵¹ 17	29 ⁵⁴ 54	0 ⁴² 42	18 ⁰ 3	28 ²⁷ 27	13 ³¹ 31	23 ²¹ 21	1 ²⁴ 24	10 ¹⁶ 16	20 ¹⁷ 17	17 ⁵¹ 51	19 ²⁴ 24	4 ²⁶ 26	23 ⁵⁹ 59	S 12
S 13	9 33 46	24 ⁵¹ 48	11 ⁵³ 53	2 ⁰ 5	19 ¹⁶ 16	29 ¹³ 13	13 ²⁸ 28	23 ²³ 23	1 ²⁷ 27	10 ¹⁸ 18	20 ¹⁶ 16	17 ⁴⁰ 40	19 ²¹ 21	4 ³³ 33	24 ⁰ 4	S 13
M14	9 37 43	25 ⁵² 16	23 ⁴⁸ 48	3 ²⁹ 29	20 ²⁹ 29	29 ⁵⁹ 59	13 ²⁴ 24	23 ²⁵ 25	1 ³⁰ 30	10 ²⁰ 20	20 ¹⁶ 16	17 ³⁰ 30	19 ¹⁷ 17	4 ⁴⁰ 40	24 ⁰ 9	M14
T 15	9 41 39	26 ⁵² 43	5 ³⁹ 39	4 ⁵⁴ 54	21 ⁴² 42	0 ⁴⁶ 46	13 ²¹ 21	23 ²⁷ 27	1 ³⁴ 34	10 ²¹ 21	20 ¹⁵ 15	17 ²¹ 21	19 ¹⁴ 14	4 ⁴⁶ 46	24 ¹⁴ 14	T 15
W16	9 45 36	27 ⁵³ 08	17 ²⁸ 28	6 ²⁰ 20	22 ⁵⁵ 55	1 ³² 32	13 ¹⁸ 18	23 ²⁸ 28	1 ³⁷ 37	10 ²³ 23	20 ¹⁵ 15	17 ¹⁵ 15	19 ¹¹ 11	4 ⁵³ 53	24 ¹⁹ 19	W16
T 17	9 49 32	28 ⁵³ 32	29 ¹⁸ 18	7 ⁴⁷ 47	24 ⁰ 8	2 ¹⁸ 18	13 ¹⁴ 14	23 ³⁰ 30	1 ⁴⁰ 40	10 ²⁵ 25	20 ¹⁵ 15	17 ¹⁰ 10	19 ⁰ 8	5 ⁰ 0	24 ²³ 23	T 17
F 18	9 53 29	29 ⁵³ 54	11 ⁵¹ 51	9 ¹⁵ 15	25 ²¹ 21	3 ⁰ 5	13 ¹⁰ 10	23 ³¹ 31	1 ⁴³ 43	10 ²⁶ 26	20 ¹⁴ 14	17 ⁰ 9	19 ⁵ 5	5 ⁰ 6	24 ²⁸ 28	F 18
S 19	9 57 26	0 ⁵⁴ 15	23 ⁰ 9	10 ⁴⁵ 45	26 ³⁴ 34	3 ⁵¹ 51	13 ⁰ 6	23 ³² 32	1 ⁴⁷ 47	10 ²⁸ 28	20 ¹⁴ 14	17 ⁰ D 8	19 ⁰ 2	5 ¹³ 13	24 ³² 32	S 19
S 20	10 1 22	1 ⁵⁴ 34	5 ¹¹ 17	12 ¹⁶ 16	27 ⁴⁷ 47	4 ³⁸ 38	13 ⁰ 2	23 ³³ 33	1 ⁵⁰ 50	10 ³⁰ 30	20 ¹⁴ 14	17 ¹⁰ 10	18 ⁵⁸ 58	5 ²⁰ 20	24 ³⁷ 37	S 20
M21	10 5 19	2 ⁵⁴ 52	17 ⁴⁰ 40	13 ⁴⁷ 47	29 ⁰ 0	5 ²⁴ 24	12 ⁵⁸ 58	23 ³⁴ 34	1 ⁵³ 53	10 ³¹ 31	20 ¹⁴ 14	17 ¹¹ 11	18 ⁵⁵ 55	5 ²⁶ 26	24 ⁴² 42	M21
T 22	10 9 15	3 ⁵⁵ 09	0 ²¹ 21	15 ²⁰ 20	0 ¹³ 13	6 ¹¹ 11	12 ⁵³ 53	23 ³⁵ 35	1 ⁵⁶ 56	10 ³³ 33	20 ¹³ 13	17 ⁰ R12	18 ⁵² 52	5 ³³ 33	24 ⁴⁶ 46	T 22
W23	10 13 12	4 ⁵⁵ 23	13 ²⁶ 26	16 ⁵⁴ 54	1 ²⁶ 26	6 ⁵⁷ 57	12 ⁴⁸ 48	23 ³⁶ 36	1 ⁵⁹ 59	10 ³⁴ 34	20 ¹³ 13	17 ¹² 12	18 ⁴⁹ 49	5 ⁴⁰ 40	24 ⁵¹ 51	W23
T 24	10 17 8	5 ⁵⁵ 37	26 ⁵⁷ 57	18 ²⁸ 28	2 ³⁹ 39	7 ⁴⁴ 44	12 ⁴⁴ 44	23 ³⁷ 37	2 ⁰ 2	10 ³⁶ 36	20 ¹³ 13	17 ¹⁰ 10	18 ⁴⁶ 46	5 ⁴⁶ 46	24 ⁵⁵ 55	T 24
F 25	10 21 5	6 ⁵⁵ 49	10 ⁵⁷ 57	20 ⁰ 4	3 ⁵³ 53	8 ³⁰ 30	12 ³⁹ 39	23 ³⁷ 37	2 ⁰ 5	10 ³⁷ 37	20 ¹³ 13	17 ⁰ 6	18 ⁴² 42	5 ⁵³ 53	24 ⁵⁹ 59	F 25
S 26	10 25 1	7 ⁵⁵ 59	25 ²⁵ 25	21 ⁴¹ 41	5 ⁰ 6	9 ¹⁷ 17	12 ³³ 33	23 ³⁸ 38	2 ⁰ 8	10 ³⁹ 39	20 ¹³ 13	17 ⁰ 1	18 ³⁹ 39	6 ⁰ 0	25 ⁰ 4	S 26
S 27	10 28 58	8 ⁵⁶ 08	10 ⁵⁸ 58	23 ¹⁹ 19	6 ¹⁹ 19	10 ⁰ 3	12 ²⁸ 28	23 ³⁸ 38	2 ¹¹ 11	10 ⁴⁰ 40	20 ¹² 12	16 ⁵⁵ 55	18 ³⁶ 36	6 ⁰ 7	25 ⁰ 8	S 27
M28	10 32 55	9 ⁵⁶ 15	25 ⁵⁸ 58	24 ⁵⁸ 58	7 ³² 32	10 ⁵⁰ 50	12 ²³ 23	23 ³⁸ 38	2 ¹⁴ 14	10 ⁴² 42	20 ¹¹ 12	16 ⁵⁴ 49	18 ³³ 33	6 ¹³ 13	25 ⁰ 12	M28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	17s 1	7s 9	3n38	21s44	0n38	22s10	1n14	22s50	0s51	4s 7	1n28	16s24	2n13	20s33	0s33	22s15	0n51	15n47	7s22	7s17	7s49	6n51	15s 7	6n29					
W 2	16 44	2 28	2 36	21 46	0 28	22 10	1 11	22 44	0 52	4 7	1 28	16 24	2 13	20 32	0 33	22 15	0 51	15 47	7 22	7 15	7 48	6 49	15 6	6 29					
T 3	16 26	2n17	1 24	21 46	0 19	22 10	1 8	22 37	0 52	4 6	1 29	16 25	2 13	20 32	0 33	22 15	0 51	15 47	7 21	7 14	7 47	6 47	15 5	6 29					
F 4	16 8	6 47	0 8	21 46	0 9	22 9	1 4	22 30	0 53	4 5	1 29	16 25	2 13	20 31	0 33	22 15	0 51	15 48	7 21	7 13	7 46	6 45	15 4	6 29					
S 5	15 50	10 46	1s 6	21 44	0s 0	22 7	1 1	22 23	0 53	4 4	1 29	16 26	2 13	20 30	0 33	22 15	0 51	15 48	7 21	7 14	7 45	6 43	15 3	6 29					
S 6	15 32	14 4	2 15	21 41	0 9	22 5	0 58	22 16	0 54	4 4	1 29	16 26	2 13	20 29	0 33	22 15	0 51	15 48	7 21	7 14	7 43	6 41	15 2	6 30					
M 7	15 13	16 32	3 14	21 37	0 18	22 2	0 54	22 8	0 54	4 3	1 30	16 27	2 14	20 29	0 33	22 15	0 51	15 48	7 21	7 14	7 42	6 40	15 1	6 30					
T 8	14 54	18 5	4 2	21 31	0 26	21 59	0 51	22 0	0 55	4 2	1 30	16 27	2 14	20 28	0 33	22 14	0 51	15 48	7 20	7 13	7 41	6 38	15 0	6 30					
W 9	14 35	18 42	4 37	21 25	0 34	21 55	0 48	21 52	0 55	4 0	1 30	16 27	2 14	20 27	0 33	22 14	0 51	15 48	7 20	7 11	7 40	6 36	14 59	6 30					
T 10	14 15	18 24	4 58	21 17	0 42	21 50	0 44	21 44	0 56	3 59	1 30	16 28	2 14	20 27	0 33	22 14	0 51	15 49	7 20	7 8	7 39	6 34	14 58	6 30					
F 11	13 55	17 15	5 5	21 8	0 50	21 44	0 41	21 35	0 56	3 58	1 31	16 28	2 14	20 26	0 33	22 14	0 51	15 49	7 20	7 5	7 37	6 32	14 57	6 31					
S 12	13 36	15 21	4 59	20 58	0 57	21 38	0 38	21 26	0 57	3 57	1 31	16 28	2 15	20 25	0 33	22 14	0 51	15 49	7 20	7 1	7 36	6 30	14 56	6 31					
S 13	13 15	12 47	4 39	20 46	1 4	21 32	0 35	21 17	0 57	3 55	1 31	16 29	2 15	20 24	0 33	22 14	0 51	15 49	7 20	6 57	7 35	6 29	14 55	6 31					
M14	12 55	9 44	4 7	20 33	1 10	21 24	0 31	21 8	0 58	3 54	1 31	16 29	2 15	20 24	0 33	22 14	0 51	15 49	7 19	6 53	7 34	6 27	14 54	6 31					
T 15	12 35	6 17	3 24	20 19	1 17	21 16	0 28	20 58	0 58	3 52	1 32	16 29	2 15	20 23	0 33	22 13	0 51	15 49	7 19	6 50	7 33	6 25	14 52	6 32					
W16	12 14	2 37	2 33	20 4	1 23	21 8	0 25	20 49	0 59	3 51	1 32	16 29	2 15	20 22	0 33	22 13	0 51	15 50	7 19	6 47	7 31	6 23	14 51	6 32					
T 17	11 53	1s10	1 35	19 47	1 29	20 58	0 21	20 39	0 59	3 49	1 32	16 29	2 16	20 22	0 33	22 13	0 51	15 50	7 19	6 45	7 30	6 21	14 50	6 32					
F 18	11 32	4 55	0 32	19 29	1 34	20 49	0 18	20 28	1 0	3 48	1 32	16 30	2 16	20 21	0 33	22 13	0 51	15 50	7 19	6 45	7 29	6 19	14 49	6 33					
S 19	11 10	8 31	0n33	19 9	1 39	20 38	0 15	20 18	1 0	3 46	1 32	16 30	2 16	20 20	0 33	22 13	0 51	15 50	7 18	6 45	7 28	6 18	14 48	6 33					
S 20	10 49	11 47	1 37	18 48	1 44	20 27	0 12	20 7	1 1	3 44	1 33	16 30	2 16	20 19	0 33	22 13	0 51	15 50	7 18	6 45	7 27	6 16	14 47	6 33					
M21	10 27	14 36	2 38	18 26	1 48	20 16	0 8	19 56	1 1	3 42	1 33	16 30	2 16	20 19	0 33	22 13	0 51	15 50	7 18	6 46	7 25	6 14	14 46	6 33					
T 22	10 5	16 47	3 33	18 3	1 52	20 3	0 5	19 45	1 2	3 40	1 33	16 30	2 17	20 18	0 33	22 12	0 51	15 51	7 18	6 46	7 24	6 12	14 45	6 34					
W23	9 43	18 10	4 19	17 38	1 56	19 50	0 2	19 34	1 2	3 38	1 33	16 30	2 17	20 17	0 33	22 12	0 51	15 51	7 17	6 46	7 23	6 10	14 44	6 34					
T 24	9 21	18 35	4 52	17 12	1 59	19 37	0s 1	19 23	1 2	3 36	1 33	16 30	2 17	20 17	0 33	22 12	0 51	15 51	7 17	6 45	7 22	6 8	14 43	6 34					
F 25	8 59	17 54	5 9	16 44	2 2	19 23	0 4	19 11	1 3	3 34	1 34	16 30	2 17	20 16	0 33	22 12	0 51	15 51	7 17	6 44	7 21	6 7	14 42	6 35					
S 26	8 37	16 3	5 7	16 16	2 4	19 9	0 7	18 59	1 3	3 32	1 34	16 30	2 17	20 15	0 33	22 12	0 51	15 51	7 17	6 42	7 19	6 5	14 41	6 35					
S 27	8 14	13 7	4 45	15 45	2 6	18 54	0 10	18 47	1 4	3 30	1 34	16 30	2 18	20 15	0 33	22 12	0 52	15 52	7 17	6 39	7 18	6 3	14 40	6 35					
M28	7s51	9s15	4n 3	15s14	2s 8	18s38	0s13	18s35	1s 4	3s27	1n34	16s29	2n18	20s14	0s33	22s12	0n52	15n52	7s16	6s37	7s17	6n 1	14s39	6n36					

ASTRODIENST EPHEMERIS for the year 1661

geocentric

APRIL 1661 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 39 4	11°41'50	3°38	25°54	16°42	5°43	8°R38	22°R56	3°32	11°10	20°II21	16°20	16°20	9°47	26°59	F 1
S 2	12 43 1	12°40'51	17°58	27°44	17°55	6°30	8°30	22°53	3°33	11°10	20°22	16°20	16°48	9°53	27° 1	S 2
S 3	12 46 57	13°39'49	1°II54	29°30	19° 9	7°16	8°23	22°50	3°35	11°11	20°22	16°21	16°45	10° 0	27° 3	S 3
M 4	12 50 54	14°38'45	15°23	1°B13	20°22	8° 3	8°15	22°47	3°37	11°11	20°23	16°21	16°42	10° 7	27° 6	M 4
T 5	12 54 50	15°37'39	28°27	2°51	21°36	8°50	8° 7	22°44	3°38	11°11	20°24	16°21	16°39	10°14	27° 8	T 5
W 6	12 58 47	16°36'31	11°8 8	4°26	22°49	9°36	8° 0	22°41	3°40	11°12	20°24	16°21	16°35	10°20	27°10	W 6
T 7	13 2 44	17°35'20	23°29	5°56	24° 3	10°23	7°52	22°38	3°41	11°12	20°25	16°21	16°32	10°27	27°12	T 7
F 8	13 6 40	18°34'07	5°236	7°21	25°16	11° 9	7°45	22°35	3°43	11°12	20°26	16°21	16°29	10°34	27°14	F 8
S 9	13 10 37	19°32'51	17°33	8°41	26°30	11°56	7°37	22°31	3°44	11°12	20°26	16°21	16°26	10°40	27°15	S 9
S 10	13 14 33	20°31'34	29°24	9°57	27°43	12°42	7°30	22°28	3°46	11°12	20°27	16°22	16°23	10°47	27°17	S 10
M 11	13 18 30	21°30'14	11°12	11° 7	28°57	13°29	7°23	22°25	3°47	11°12	20°28	16°22	16°19	10°54	27°19	M 11
T 12	13 22 26	22°28'52	23° 3	12°11	0°Y10	14°15	7°15	22°21	3°48	11°12	20°29	16°23	16°16	11° 0	27°20	T 12
W 13	13 26 23	23°27'28	4°58	13°10	1°24	15° 2	7° 8	22°18	3°50	11°12	20°30	16°23	16°13	11° 7	27°22	W 13
T 14	13 30 19	24°26'01	17° 0	14° 4	2°37	15°48	7° 1	22°14	3°51	11°12	20°31	16°R23	16°10	11°14	27°23	T 14
F 15	13 34 16	25°24'33	29°12	14°51	3°51	16°35	6°54	22°10	3°52	11°12	20°31	16°23	16° 7	11°20	27°25	F 15
S 16	13 38 12	26°23'03	11°135	15°34	5° 4	17°21	6°47	22° 6	3°53	11°12	20°32	16°22	16° 4	11°27	27°26	S 16
S 17	13 42 9	27°21'32	24° 9	16°10	6°18	18° 8	6°40	22° 3	3°54	11°12	20°33	16°21	16° 0	11°34	27°27	S 17
M 18	13 46 6	28°19'58	6°57	16°40	7°31	18°54	6°33	21°59	3°55	11°12	20°34	16°20	15°57	11°40	27°28	M 18
T 19	13 50 2	29°18'23	19°59	17° 5	8°45	19°40	6°27	21°55	3°56	11°11	20°35	16°18	15°54	11°47	27°30	T 19
W 20	13 53 59	0°16'46	3°316	17°23	9°58	20°27	6°20	21°51	3°57	11°11	20°36	16°16	15°51	11°54	27°31	W 20
T 21	13 57 55	1°15'08	16°48	17°36	11°12	21°13	6°14	21°47	3°58	11°11	20°37	16°15	15°48	12° 0	27°32	T 21
F 22	14 1 52	2°13'28	0°35	17°43	12°25	21°59	6° 7	21°43	3°59	11°11	20°38	16°D15	15°44	12° 7	27°32	F 22
S 23	14 5 48	3°11'46	14°38	17°R45	13°39	22°46	6° 1	21°39	4° 0	11°10	20°39	16°15	15°41	12°14	27°33	S 23
S 24	14 9 45	4°10'03	28°55	17°41	14°52	23°32	5°55	21°35	4° 0	11°10	20°40	16°16	15°38	12°20	27°34	S 24
M 25	14 13 41	5° 8'18	13°32	17°32	16° 6	24°18	5°49	21°30	4° 1	11°10	20°41	16°17	15°35	12°27	27°35	M 25
T 26	14 17 38	6° 6'32	28° 1	17°18	17°19	25° 4	5°43	21°26	4° 2	11° 9	20°42	16°18	15°32	12°34	27°35	T 26
W 27	14 21 35	7° 4'44	12°42	17° 0	18°33	25°51	5°37	21°22	4° 2	11° 9	20°43	16°R19	15°29	12°40	27°36	W 27
T 28	14 25 31	8° 2'55	27°19	16°37	19°46	26°37	5°32	21°18	4° 3	11° 8	20°44	16°19	15°25	12°47	27°36	T 28
F 29	14 29 28	9° 1'04	11°47	16°11	21° 0	27°23	5°26	21°13	4° 3	11° 8	20°45	16°17	15°22	12°54	27°36	F 29
S 30	14 33 24	9°59'11	26°8 0	15°41	22°Y13	28°4 9	5°21	21°11	4° 4	11°8 7	20°II46	16°15	15°19	13°10	27°37	S 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	4n38	11n16	1s35	11n 1	1n 4	6s32	1s23	10s35	1s14	1s57	1n37	16s14	2n23	19s57	0s34	F 1
S 2	5 1 14 33	2 47 11 51	1 15	6 5	1 25	10 18	1 14	1 54	1 37	16 13	2 23	19 57	0 34	22 9	0 52	S 2
S 3	5 24 16 52	3 47 12 40	1 26	5 37	1 26	10 1	1 15	1 51	1 37	16 12	2 23	19 56	0 34	22 9	0 52	S 3
M 4	5 47 18 10	4 33 13 26	1 37	5 9	1 27	9 43	1 15	1 48	1 37	16 11	2 24	19 56	0 34	22 9	0 52	M 4
T 5	6 10 18 26	5 3 14 10	1 48	4 41	1 28	9 26	1 15	1 45	1 37	16 10	2 24	19 56	0 34	22 9	0 52	T 5
W 6	6 32 17 45	5 16 14 52	1 58	4 12	1 29	9 8	1 15	1 42	1 37	16 9	2 24	19 55	0 34	22 9	0 52	W 6
T 7	6 55 16 15	5 15 15 31	2 7	3 44	1 29	8 51	1 15	1 39	1 37	16 8	2 24	19 55	0 34	22 8	0 52	T 7
F 8	7 17 14 3	5 0 16 8	2 16	3 16	1 30	8 33	1 15	1 36	1 37	16 8	2 24	19 55	0 34	22 8	0 52	F 8
S 9	7 40 11 17	4 32 16 41	2 24	2 47	1 31	8 16	1 16	1 33	1 37	16 7	2 24	19 54	0 34	22 8	0 52	S 9
S 10	8 2 8 4	3 53 17 12	2 31	2 18	1 31	7 58	1 16	1 30	1 37	16 6	2 24	19 54	0 34	22 8	0 52	S 10
M 11	8 24 4 33	3 3 17 41	2 37	1 49	1 32	7 40	1 16	1 27	1 37	16 5	2 24	19 54	0 34	22 8	0 52	M 11
T 12	8 46 0 50	2 6 18 6	2 43	1 21	1 32	7 22	1 16	1 24	1 36	16 4	2 24	19 54	0 34	22 8	0 52	T 12
W 13	9 8 2s56	1 3 18 29	2 47	0 52	1 33	7 4	1 16	1 22	1 36	16 3	2 25	19 53	0 34	22 8	0 52	W 13
T 14	9 29 6 38	0n 3 18 48	2 51	0 23	1 33	6 47	1 16	1 19	1 36	16 2	2 25	19 53	0 35	22 8	0 52	T 14
F 15	9 51 10 7	1 11 19 5	2 53	0n 6	1 33	6 29	1 16	1 16	1 36	16 1	2 25	19 53	0 35	22 8	0 52	F 15
S 16	10 12 13 11	2 15 19 19	2 55	0 35	1 33	6 10	1 16	1 14	1 36	16 0	2 25	19 53	0 35	22 8	0 52	S 16
S 17	10 33 15 42	3 14 19 30	2 55	1 4	1 34	5 52	1 16	1 11	1 36	15 59	2 25	19 52	0 35	22 8	0 52	S 17
M 18	10 54 17 29	4 5 19 37	2 54	1 33	1 34	5 34	1 16	1 8	1 36	15 58	2 25	19 52	0 35	22 8	0 52	M 18
T 19	11 15 18 23	4 44 19 42	2 52	2 2	1 34	5 16	1 17	1 6	1 36	15 56	2 25	19 52	0 35	22 8	0 52	T 19
W 20	11 35 18 18	5 8 19 45	2 48	2 31	1 33	4 58	1 17	1 3	1 36	15 55	2 25	19 52	0 35	22 8	0 52	W 20
T 21	11 56 17 11	5 16 19 44	2 44	3 0	1 33	4 40	1 17	1 1	1 35	15 54	2 25	19 52	0 35	22 8	0 52	T 21
F 22	12 16 15 4	5 7 19 40	2 38	3 29	1 33	4 21	1 17	0 59	1 35	15 53	2 25	19 51	0 35	22 8	0 52	F 22
S 23	12 36 12 2	4 39 19 33	2 30	3 58	1 33	4 3	1 17	0 56	1 35	15 52	2 25	19 51	0 35	22 8	0 53	S 23
S 24	12 56 8 14	3 53 19 24	2 22	4 27	1 32	3 45	1 17	0 54	1 35	15 51	2 25	19 51	0 35	22 8	0 53	S 24
M 25	13 15 3 53	2 52 19 12	2 12	4 56	1 32	3 26	1 17	0 52	1 35	15 50	2 25	19 51	0 35	22 8	0 53	M 25
T 26	13 35 0n44	1 39 18 58	2 1	5 24	1 31	3 8	1 17	0 50	1 35	15 49	2 25	19 51	0 35	22 8	0 53	T 26
W 27	13 54 5 20	0 20 18 41	1 49	5 53	1 31	2 50	1 17	0 48	1 34	15 48	2 25	19 51	0 35	22 8	0 53	W 27
T 28	14 13 9 36	1s 0 18 21	1 35	6 21	1 30	2 31	1 17	0 45	1 34	15 47	2 25	19 51	0 35	22 8	0 53	T 28
F 29	14 32 13 14	2 16 18 0	1 21	6 49	1 30	2 13	1 17	0 43	1 34	15 45	2 25	19 51	0 35	22 8	0 53	F 29
S 30	14n50	16n 1	3s22	17n37	1n 6	7n18	1s29	1s55	1s17	0s42	1n34	15s44	2n25	19s51	0s35	S 30

Julian Day Number = 2327818.5, Delta T = 35.53 sec

Ecliptic obliquity = 23°28'52, Nutation = 0°00'05, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°00'43, Lahiri = 19°07'43Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1661

geocentric

MAY 1661 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 37 21	10 ⁸ 57'17	9 ^{II} 53	15°R 9	23 ^Y 27	28 ^X 55	5°R16	21°R 5	4 [≈] 4	11°R 7	20 ^{II} 48	16°R11	15 ^Δ 16	13 ^Π 7	27 ^Σ 37	S 1
M 2	14 41 17	11°55'21	23°24	14 ^Σ 35	24°40	29°41	5 ^Δ 11	21 ^Π 0	4° 4	11 ^Σ 6	20°49	16 ^Δ 8	15°13	13°14	27°37	M 2
T 3	14 45 14	12°53'23	6 ^Σ 31	13°59	25°54	0 ^Y 27	5° 6	20°56	4° 5	11° 5	20°50	16° 4	15°10	13°20	27°R37	T 3
W 4	14 49 10	13°51'23	19°15	13°23	27° 7	1°13	5° 1	20°51	4° 5	11° 5	20°51	16° 1	15° 6	13°27	27°37	W 4
T 5	14 53 7	14°49'21	1 ^Δ 40	12°46	28°21	1°59	4°57	20°47	4° 5	11° 4	20°52	15°59	15° 3	13°34	27°37	T 5
F 6	14 57 4	15°47'18	13°48	12°10	29°34	2°45	4°52	20°43	4° 5	11° 3	20°53	15°D58	15° 0	13°40	27°37	F 6
S 7	15 1 0	16°45'12	25°46	11°35	0 ^Σ 48	3°31	4°48	20°38	4° 5	11° 3	20°55	15°58	14°57	13°47	27°36	S 7
S 8	15 4 57	17°43'05	7 ^Π 37	11° 1	2° 1	4°16	4°44	20°34	4°R 5	11° 2	20°56	16° 0	14°54	13°54	27°36	S 8
M 9	15 8 53	18°40'56	19°26	10°30	3°15	5° 2	4°40	20°29	4° 5	11° 1	20°57	16° 1	14°50	14° 0	27°36	M 9
T 10	15 12 50	19°38'45	1 ^Δ 18	10° 2	4°28	5°48	4°36	20°25	4° 5	11° 0	20°58	16° 3	14°47	14° 7	27°35	T 10
W11	15 16 46	20°36'33	13°18	9°36	5°42	6°34	4°32	20°20	4° 5	10°59	21° 0	16°R 4	14°44	14°14	27°35	W11
T 12	15 20 43	21°34'19	25°28	9°15	6°55	7°19	4°29	20°16	4° 5	10°58	21° 1	16° 3	14°41	14°20	27°34	T 12
F 13	15 24 39	22°32'03	7 ^Π 52	8°57	8° 9	8° 5	4°26	20°11	4° 5	10°57	21° 2	16° 1	14°38	14°27	27°33	F 13
S 14	15 28 36	23°29'46	20°32	8°43	9°22	8°50	4°23	20° 7	4° 5	10°57	21° 3	15°58	14°35	14°34	27°33	S 14
S 15	15 32 33	24°27'28	3 ^Σ 27	8°34	10°36	9°36	4°20	20° 2	4° 4	10°56	21° 5	15°52	14°31	14°40	27°32	S 15
M16	15 36 29	25°25'08	16°37	8°29	11°49	10°21	4°17	19°58	4° 4	10°55	21° 6	15°46	14°28	14°47	27°31	M16
T 17	15 40 26	26°22'47	0 ^Σ 2	8°D28	13° 3	11° 7	4°14	19°53	4° 3	10°54	21° 7	15°40	14°25	14°54	27°30	T 17
W18	15 44 22	27°20'25	13°40	8°32	14°16	11°52	4°12	19°49	4° 3	10°53	21° 9	15°34	14°22	15° 0	27°29	W18
T 19	15 48 19	28°18'02	27°28	8°40	15°30	12°38	4°10	19°45	4° 3	10°51	21°10	15°29	14°19	15° 7	27°28	T 19
F 20	15 52 15	29°15'38	11 [≈] 25	8°53	16°43	13°23	4° 8	19°40	4° 2	10°50	21°11	15°25	14°16	15°14	27°26	F 20
S 21	15 56 12	0 ^{II} 13'14	25°28	9°11	17°56	14° 8	4° 6	19°36	4° 1	10°49	21°13	15°D24	14°12	15°20	27°25	S 21
S 22	16 0 8	1°10'48	9 ^X 37	9°33	19°10	14°53	4° 4	19°31	4° 1	10°48	21°14	15°24	14° 9	15°27	27°24	S 22
M23	16 4 5	2° 8'21	23°50	9°59	20°23	15°39	4° 2	19°27	4° 0	10°47	21°15	15°25	14° 6	15°34	27°22	M23
T 24	16 8 2	3° 5'53	8 ^Y 5	10°29	21°37	16°24	4° 1	19°23	3°59	10°46	21°17	15°R26	14° 3	15°40	27°21	T 24
W25	16 11 58	4° 3'25	22°20	11° 4	22°51	17° 9	4° 0	19°19	3°58	10°45	21°18	15°26	14° 0	15°47	27°19	W25
T 26	16 15 55	5° 0'55	6 ^Σ 31	11°42	24° 4	17°54	3°59	19°14	3°58	10°43	21°19	15°24	13°56	15°54	27°18	T 26
F 27	16 19 51	5°58'25	20°36	12°25	25°18	18°39	3°58	19°10	3°57	10°42	21°21	15°20	13°53	16° 0	27°16	F 27
S 28	16 23 48	6°55'54	4 ^{II} 29	13°11	26°31	19°24	3°58	19° 6	3°56	10°41	21°22	15°14	13°50	16° 7	27°14	S 28
S 29	16 27 44	7°53'22	18° 8	14° 1	27°45	20° 9	3°57	19° 2	3°55	10°40	21°23	15° 6	13°47	16°14	27°13	S 29
M30	16 31 41	8°50'49	1 ^Σ 29	14°54	28°58	20°53	3°57	18°58	3°54	10°38	21°25	14°57	13°44	16°20	27°11	M30
T 31	16 35 37	9 ^{II} 48'15	14 ^Σ 31	15 ^Σ 51	0 ^{II} 12	21 ^Y 38	3°D57	18 ^Π 54	3 [≈] 53	10 ^Σ 37	21 ^{II} 26	14 ^Δ 48	13 ^Δ 41	16 ^Π 27	27 ^Σ 9	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	15n 8	17n47	4s14	17n12	0n50	7n46	1s28	1s36	1s17	0s40	1n34	15s43	2n25	19s50	0s35	22s 8
M 2	15 26	18 29	4 50	16 46	0 33	8 13	1 27	1 18	1 17	0 38	1 33	15 42	2 25	19 50	0 35	22 8
T 3	15 44	18 10	5 10	16 20	0 16	8 41	1 26	0 59	1 17	0 36	1 33	15 41	2 25	19 50	0 35	22 9
W 4	16 2	16 55	5 13	15 52	0s 1	9 9	1 25	0 41	1 16	0 34	1 33	15 40	2 25	19 50	0 35	22 9
T 5	16 19	14 54	5 2	15 24	0 18	9 36	1 24	0 23	1 16	0 33	1 33	15 39	2 25	19 50	0 35	22 9
F 6	16 36	12 16	4 38	14 57	0 36	10 3	1 23	0 4	1 16	0 31	1 33	15 37	2 25	19 50	0 35	22 9
S 7	16 52	9 10	4 2	14 30	0 53	10 30	1 22	0n14	1 16	0 30	1 32	15 36	2 25	19 50	0 35	22 9
S 8	17 9	5 42	3 15	14 3	1 10	10 56	1 21	0 32	1 16	0 28	1 32	15 35	2 25	19 50	0 35	22 9
M 9	17 25	2 2	2 21	13 38	1 26	11 23	1 19	0 51	1 16	0 27	1 32	15 34	2 25	19 50	0 35	22 9
T 10	17 41	1s44	1 20	13 14	1 42	11 49	1 18	1 9	1 16	0 26	1 32	15 33	2 25	19 50	0 35	22 9
W11	17 56	5 29	0 15	12 52	1 57	12 14	1 16	1 27	1 16	0 24	1 32	15 32	2 25	19 51	0 35	22 9
T 12	18 11	9 4	0n51	12 32	2 11	12 40	1 15	1 45	1 16	0 23	1 31	15 31	2 25	19 51	0 36	22 9
F 13	18 26	12 20	1 56	12 14	2 24	13 5	1 14	2 3	1 15	0 22	1 31	15 29	2 25	19 51	0 36	22 9
S 14	18 41	15 4	2 57	11 58	2 36	13 30	1 12	2 21	1 15	0 21	1 31	15 28	2 25	19 51	0 36	22 9
S 15	18 55	17 8	3 49	11 44	2 48	13 55	1 10	2 39	1 15	0 20	1 31	15 27	2 25	19 51	0 36	22 9
M16	19 9	18 19	4 31	11 33	2 58	14 19	1 9	2 58	1 15	0 19	1 30	15 26	2 25	19 51	0 36	22 9
T 17	19 23	18 31	4 58	11 24	3 7	14 43	1 7	3 15	1 15	0 19	1 30	15 25	2 25	19 51	0 36	22 9
W18	19 36	17 39	5 9	11 17	3 15	15 7	1 5	3 33	1 15	0 18	1 30	15 24	2 25	19 51	0 36	22 9
T 19	19 49	15 45	5 3	11 14	3 22	15 30	1 3	3 51	1 14	0 17	1 30	15 23	2 25	19 51	0 36	22 9
F 20	20 2	12 55	4 39	11 12	3 28	15 53	1 2	4 9	1 14	0 17	1 29	15 22	2 25	19 52	0 36	22 10
S 21	20 14	9 20	3 57	11 13	3 33	16 15	1 0	4 27	1 14	0 16	1 29	15 21	2 25	19 52	0 36	22 10
S 22	20 26	5 10	3 1	11 16	3 37	16 37	0 58	4 45	1 14	0 16	1 29	15 19	2 24	19 52	0 36	22 10
M23	20 38	0 42	1 54	11 21	3 40	16 59	0 56	5 2	1 14	0 15	1 29	15 18	2 24	19 52	0 36	22 10
T 24	20 49	3n49	0 40	11 29	3 42	17 20	0 54	5 20	1 13	0 15	1 28	15 17	2 24	19 52	0 36	22 10
W25	21 0	8 8	0s37	11 39	3 43	17 41	0 52	5 37	1 13	0 15	1 28	15 16	2 24	19 53	0 36	22 10
T 26	21 10	11 58	1 51	11 50	3 43	18 1	0 50	5 55	1 13	0 14	1 28	15 15	2 24	19 53	0 36	22 10
F 27	21 20	15 4	2 58	12 4	3 42	18 21	0 48	6 12	1 12	0 14	1 28	15 14	2 24	19 53	0 36	22 10
S 28	21 30	17 16	3 53	12 19	3 41	18 40	0 46	6 29	1 12	0 14	1 27	15 13	2 24	19 53	0 36	22 10
S 29	21 40	18 25	4 33	12 36	3 38	18 59	0 44	6 47	1 12	0 14	1 27	15 12	2 24	19 54	0 36	22 10
M30	21 49	18 31	4 58	12 54	3 35	19 17	0 41	7 4	1 12	0 15	1 27	15 11	2 24	19 54	0 36	22 10
T 31	21n58	17n37	5s 6	13n15	3s31	19n35	0s39	7n21	1s11	0s15	1n27	15s10	2n23	19s54	0s36	22s10

Julian Day Number = 2327848.5, Delta T = 35.48 sec
 Ecliptic obliquity = 23°28'51, Nutation = 0°00'03, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 20°00'47, Lahiri = 19°07'48Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1661

geocentric

JUNE 1661 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 39 34	10 ^{II} 45'40	27 [☾] 13	16 [♂] 52	1 ^{II} 25	22 [♂] 23	3 [♂] 57	18 [♂] 50	3 [♂] 52	10 [♂] 36	21 ^{II} 28	14 [♂] 40	13 [♂] 37	16 [♂] 33	27 [♂] 7	W 1
T 2	16 43 31	11 [°] 43'04	9 [♂] 36	17 [°] 55	2 [°] 39	23 [°] 8	3 [°] 57	18 [♂] 46	3 [♂] 51	10 [♂] 34	21 [°] 29	14 [♂] 33	13 [°] 34	16 [°] 40	27 [♂] 5	T 2
F 3	16 47 27	12 [°] 40'27	21 [°] 45	19 [°] 3	3 [°] 52	23 [°] 52	3 [°] 58	18 [°] 42	3 [°] 49	10 [°] 33	21 [°] 31	14 [°] 29	13 [°] 31	16 [°] 47	27 [°] 3	F 3
S 4	16 51 24	13 [°] 37'48	3 [♂] 42	20 [°] 13	5 [°] 6	24 [°] 37	3 [°] 58	18 [°] 38	3 [°] 48	10 [°] 32	21 [°] 32	14 [°] 26	13 [°] 28	16 [°] 53	27 [°] 1	S 4
S 5	16 55 20	14 [°] 35'09	15 [°] 33	21 [°] 27	6 [°] 19	25 [°] 21	3 [°] 59	18 [°] 34	3 [°] 47	10 [°] 30	21 [°] 33	14 [°] D26	13 [°] 25	17 [°] 0	26 [°] 58	S 5
M 6	16 59 17	15 [°] 32'28	27 [°] 23	22 [°] 43	7 [°] 33	26 [°] 5	4 [°] 0	18 [°] 30	3 [°] 46	10 [°] 29	21 [°] 35	14 [°] 26	13 [°] 22	17 [°] 7	26 [°] 56	M 6
T 7	17 3 13	16 [°] 29'47	9 [♂] 16	24 [°] 3	8 [°] 46	26 [°] 50	4 [°] 1	18 [°] 27	3 [°] 44	10 [°] 27	21 [°] 36	14 [°] R27	13 [°] 18	17 [°] 13	26 [°] 54	T 7
W 8	17 7 10	17 [°] 27'04	21 [°] 19	25 [°] 26	10 [°] 0	27 [°] 34	4 [°] 3	18 [°] 23	3 [°] 43	10 [°] 26	21 [°] 38	14 [°] 27	13 [°] 15	17 [°] 20	26 [°] 51	W 8
T 9	17 11 6	18 [°] 24'21	3 [♂] 35	26 [°] 52	11 [°] 14	28 [°] 18	4 [°] 4	18 [°] 20	3 [°] 41	10 [°] 24	21 [°] 39	14 [°] 25	13 [°] 12	17 [°] 27	26 [°] 49	T 9
F 10	17 15 3	19 [°] 21'37	16 [°] 9	28 [°] 21	12 [°] 27	29 [°] 2	4 [°] 6	18 [°] 16	3 [°] 40	10 [°] 23	21 [°] 40	14 [°] 21	13 [°] 9	17 [°] 33	26 [°] 46	F 10
S 11	17 19 0	20 [°] 18'52	29 [°] 2	29 [°] 53	13 [°] 41	29 [°] 47	4 [°] 8	18 [°] 13	3 [°] 38	10 [°] 21	21 [°] 42	14 [°] 15	13 [°] 6	17 [°] 40	26 [°] 44	S 11
S 12	17 22 56	21 [°] 16'07	12 [♂] 16	1 ^{II} 27	14 [°] 54	0 [♂] 31	4 [°] 10	18 [°] 9	3 [°] 37	10 [°] 20	21 [°] 43	14 [°] 6	13 [°] 2	17 [°] 47	26 [°] 41	S 12
M13	17 26 53	22 [°] 13'21	25 [°] 50	3 [°] 5	16 [°] 8	1 [°] 15	4 [°] 12	18 [°] 6	3 [°] 35	10 [°] 18	21 [°] 45	13 [°] 56	12 [°] 59	17 [°] 53	26 [°] 39	M13
T 14	17 30 49	23 [°] 10'34	9 [♂] 40	4 [°] 46	17 [°] 21	1 [°] 58	4 [°] 15	18 [°] 3	3 [°] 34	10 [°] 17	21 [°] 46	13 [°] 45	12 [°] 56	18 [°] 0	26 [°] 36	T 14
W15	17 34 46	24 [°] 7'47	23 [°] 44	6 [°] 30	18 [°] 35	2 [°] 42	4 [°] 17	17 [°] 59	3 [°] 32	10 [°] 15	21 [°] 48	13 [°] 35	12 [°] 53	18 [°] 7	26 [°] 33	W15
T 16	17 38 42	25 [°] 5'00	7 [♂] 56	8 [°] 16	19 [°] 49	3 [°] 26	4 [°] 20	17 [°] 56	3 [°] 30	10 [°] 14	21 [°] 49	13 [°] 27	12 [°] 50	18 [°] 13	26 [°] 31	T 16
F 17	17 42 39	26 [°] 2'13	22 [°] 11	10 [°] 5	21 [°] 2	4 [°] 10	4 [°] 23	17 [°] 53	3 [°] 29	10 [°] 12	21 [°] 50	13 [°] 20	12 [°] 47	18 [°] 20	26 [°] 28	F 17
S 18	17 46 35	26 [°] 59'25	6 [♂] 26	11 [°] 57	22 [°] 16	4 [°] 54	4 [°] 26	17 [°] 50	3 [°] 27	10 [°] 11	21 [°] 52	13 [°] 17	12 [°] 43	18 [°] 27	26 [°] 25	S 18
S 19	17 50 32	27 [°] 56'37	20 [°] 38	13 [°] 52	23 [°] 29	5 [°] 37	4 [°] 29	17 [°] 47	3 [°] 25	10 [°] 9	21 [°] 53	13 [°] 16	12 [°] 40	18 [°] 33	26 [°] 22	S 19
M20	17 54 29	28 [°] 53'50	4 [♂] 46	15 [°] 48	24 [°] 43	6 [°] 21	4 [°] 33	17 [°] 45	3 [°] 23	10 [°] 8	21 [°] 55	13 [°] D15	12 [°] 37	18 [°] 40	26 [°] 19	M20
T 21	17 58 25	29 [°] 51'02	18 [°] 47	17 [°] 48	25 [°] 57	7 [°] 4	4 [°] 36	17 [°] 42	3 [°] 22	10 [°] 6	21 [°] 56	13 [°] R15	12 [°] 34	18 [°] 47	26 [°] 16	T 21
W22	18 2 22	0 [♂] 48'14	2 [♂] 43	19 [°] 49	27 [°] 10	7 [°] 47	4 [°] 40	17 [°] 39	3 [°] 20	10 [°] 4	21 [°] 58	13 [°] 14	12 [°] 31	18 [°] 53	26 [°] 13	W22
T 23	18 6 18	1 [°] 45'27	16 [°] 31	21 [°] 53	28 [°] 24	8 [°] 31	4 [°] 44	17 [°] 37	3 [°] 18	10 [°] 3	21 [°] 59	13 [°] 11	12 [°] 27	19 [°] 0	26 [°] 10	T 23
F 24	18 10 15	2 [°] 42'39	0 ^{II} 10	23 [°] 58	29 [°] 38	9 [°] 14	4 [°] 48	17 [°] 34	3 [°] 16	10 [°] 1	22 [°] 0	13 [°] 5	12 [°] 24	19 [°] 7	26 [°] 7	F 24
S 25	18 14 11	3 [°] 39'52	13 [°] 40	26 [°] 5	0 [♂] 51	9 [°] 57	4 [°] 52	17 [°] 32	3 [°] 14	10 [°] 0	22 [°] 2	12 [°] 56	12 [°] 21	19 [°] 13	26 [°] 4	S 25
S 26	18 18 8	4 [°] 37'05	26 [°] 57	28 [°] 13	2 [°] 5	10 [°] 40	4 [°] 56	17 [°] 29	3 [°] 12	9 [°] 58	22 [°] 3	12 [°] 45	12 [°] 18	19 [°] 20	26 [°] 0	S 26
M27	18 22 5	5 [°] 34'17	10 [♂] 1	0 [♂] 22	3 [°] 19	11 [°] 23	5 [°] 1	17 [°] 27	3 [°] 10	9 [°] 56	22 [°] 5	12 [°] 33	12 [°] 15	19 [°] 27	25 [°] 57	M27
T 28	18 26 1	6 [°] 31'30	22 [°] 49	2 [°] 32	4 [°] 33	12 [°] 6	5 [°] 6	17 [°] 25	3 [°] 8	9 [°] 55	22 [°] 6	12 [°] 20	12 [°] 12	19 [°] 33	25 [°] 54	T 28
W29	18 29 58	7 [°] 28'42	5 [♂] 22	4 [°] 42	5 [°] 46	12 [°] 49	5 [°] 11	17 [°] 23	3 [°] 6	9 [°] 53	22 [°] 7	12 [°] 8	12 [°] 8	19 [°] 40	25 [°] 51	W29
T 30	18 33 54	8 [♂] 25'54	17 [♂] 40	6 [♂] 53	7 [♂] 0	13 [♂] 32	5 [♂] 16	17 [♂] 21	3 [♂] 4	9 [♂] 52	22 [♂] 9	11 [♂] 58	12 [♂] 5	19 [♂] 47	25 [♂] 48	T 30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	22n 6	15n52	4s59	13n36	3s27	19n53	0s37	7n38	1s11	0s15	1n26	15s 9	2n23	19s54	0s36	22s11	0n53	16n12	7s 1	5s47	5s23	3n 9	13s33	7n21	
T 2	22 14	13 25	4 38	13 59	3 21	20 9	0 35	7 55	1 11	0 15	1 26	15 8	2 23	19 55	0 36	22 11	0 53	16 12	7 1	5 45	5 22	3 7	13 33	7 21	
F 3	22 21	10 26	4 4	14 23	3 15	20 26	0 33	8 11	1 10	0 16	1 26	15 7	2 23	19 55	0 36	22 11	0 53	16 12	7 1	5 43	5 21	3 5	13 33	7 22	
S 4	22 29	7 3	3 20	14 48	3 9	20 41	0 30	8 28	1 10	0 16	1 26	15 7	2 23	19 55	0 36	22 11	0 53	16 13	7 1	5 42	5 19	3 4	13 33	7 22	
S 5	22 35	3 25	2 28	15 14	3 2	20 57	0 28	8 45	1 10	0 17	1 25	15 6	2 23	19 56	0 36	22 11	0 53	16 13	7 1	5 42	5 18	3 2	13 33	7 23	
M 6	22 42	0s20	1 30	15 41	2 54	21 11	0 26	9 1	1 9	0 18	1 25	15 5	2 23	19 56	0 36	22 11	0 53	16 13	7 1	5 42	5 17	3 0	13 33	7 23	
T 7	22 48	4 6	0 28	16 8	2 46	21 25	0 23	9 17	1 9	0 18	1 25	15 4	2 22	19 56	0 36	22 11	0 53	16 13	7 1	5 42	5 16	2 58	13 33	7 23	
W 8	22 53	7 46	0n37	16 37	2 37	21 39	0 21	9 34	1 9	0 19	1 25	15 3	2 22	19 57	0 36	22 11	0 53	16 13	7 1	5 42	5 14	2 56	13 34	7 24	
T 9	22 58	11 10	1 40	17 5	2 28	21 51	0 19	9 50	1 8	0 20	1 24	15 2	2 22	19 57	0 36	22 11	0 53	16 13	7 1	5 42	5 13	2 54	13 34	7 24	
F 10	23 3	14 8	2 41	17 35	2 18	22 4	0 16	10 6	1 8	0 21	1 24	15 2	2 22	19 57	0 36	22 12	0 53	16 13	7 0	5 40	5 12	2 52	13 34	7 24	
S 11	23 8	16 30	3 34	18 4	2 8	22 15	0 14	10 22	1 7	0 22	1 24	15 1	2 22	19 58	0 36	22 12	0 53	16 14	7 0	5 38	5 11	2 51	13 34	7 25	
S 12	23 12	18 3	4 18	18 34	1 58	22 26	0 11	10 38	1 7	0 23	1 23	15 0	2 22	19 58	0 37	22 12	0 53	16 14	7 0	5 34	5 9	2 49	13 34	7 25	
M13	23 15	18 37	4 48	19 3	1 47	22 36	0 9	10 53	1 7	0 24	1 23	14 59	2 21	19 59	0 37	22 12	0 53	16 14	7 0	5 30	5 8	2 47	13 34	7 26	
T 14	23 18	18 7	5 2	19 33	1 36	22 46	0 7	11 9	1 6	0 25	1 23	14 59	2 21	19 59	0 37	22 12	0 53	16 14	7 0	5 26	5 7	2 45	13 34	7 26	
W15	23 21	16 30	4 58	20 2	1 25	22 55	0 4	11 24	1 6	0 27	1 23	14 58	2 21	19 59	0 37	22 12	0 53	16 14	7 0	5 22	5 6	2 43	13 34	7 26	
T 16	23 23	13 53	4 36	20 30	1 14	23 3	0 2	11 40	1 5	0 28	1 22	14 57	2 21	20 0	0 37	22 12	0 53	16 14	7 0	5 19	5 5	2 41	13 35	7 26	
F 17	23 25	10 25	3 56	20 58	1 2	23 11	0n 1	11 55	1 5	0 29	1 22	14 57	2 21	20 0	0 37	22 12	0 53	16 14	7 0	5 17	5 3	2 39	13 35	7 27	
S 18	23 27	6 20	3 2	21 25	0 51	23 18	0 3	12 10	1 4	0 31	1 22	14 56	2 20	20 1	0 37	22 13	0 53	16 14	7 0	5 15	5 2	2 38	13 35	7 27	
S 19	23 28	1 55	1 57	21 51	0 39	23 24	0 5	12 25	1 4	0 32	1 22	14 55	2 20	20 1	0 37	22 13	0 53	16 15	7 0	5 15	5 1	2 36	13 35	7 27	
M20	23 29	2n35	0 45	22 16	0 27	23 30	0 8	12 40	1 3	0 34	1 21	14 55	2 20	20 2	0 37	22 13	0 53	16 15	7 0	5 15	5 0	2 34	13 36	7 28	
T 21	23 29	6 55	0s29	22 39	0 16	23 35	0 10	12 54	1 3	0 35	1 21	14 54	2 20	20 2	0 37	22 13	0 53	16 15	7 0	5 15	4 58	2 32	13 36	7 28	
W22	23 29	10 51	1 41	23 1	0 5	23 39	0 12	13 9	1 2	0 37	1 21	14 54	2 20	20 3	0 37	22 13	0 53	16 15	7 0	5 14	4 57	2 30	13 36	7 28	
T 23	23 28	14 9	2 46	23 20	0n 7	23 43	0 15	13 23	1 2	0 39	1 21	14 53	2 19	20 3	0 37	22 13	0 53	16 15	7 0	5 13	4 56	2 28	13 36	7 28	
F 24	23 27	16 37	3 41	23 38	0 17	23 46	0 17	13 38	1 1	0 41	1 20	14 53	2 19	20 3	0 37	22 13	0 53	16 15	7 0	5 10	4 55	2 26	13 37	7 29	
S 25	23 26	18 8	4 23	23 53	0 28	23 48	0 19	13 52	1 1	0 43	1 20	14 52	2 19	20 4	0 37	22 13	0 53	16 15	7 0	5 7	4 53	2 25	13 37	7 29	
S 26	23 24	18 37	4 49	24 6	0 38	23 50	0 22	14 6	1 0	0 45	1 20	14 52	2 19	20 4	0 37	22 14	0 53	16 15	7 0	5 3	4 52	2 23	13 37	7 29	
M27	23 22	18 7	5 0	24 16	0 47	23 50	0 24	14 20	1 0	0 47	1 20	14 51	2 18	20 5	0 37	22 14	0 53	16 15	7 0	4 58	4 51	2 21	13 38	7 29	
T 28	23 19	16 41	4 56	24 24	0 56	23 50	0 26	14 33	0 59	0 49	1 19	14 51	2 18	20 5	0 37	22 14	0 53	16 15	7 0	4 53	4 50	2 19	13 38	7 30	
W29	23 16	14 29	4 37	24 19	1 5	23 50	0 28	14 47	0 59	0 51	1 19	14 51	2 18	20 6	0 37	22 14	0 53	16 16	7 0	4 48	4 48	2 17	13 39	7 30	
T 30	23n13	11n40	4s 5	24n31	1n13	23n48	0n31	15n 0	0s58	0s53	1n19	14s50	2n18	20s 6	0s37	22s14	0n53	16n16	7s 0	4s45	4s47	2n15	13s39	7n30	

ASTRODIENST EPHEMERIS for the year 1661
geocentric

JULY 1661 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	18 37 51	9 ⁵⁵ 23'06	29 ⁰² 45	9 ⁵⁵ 3	8 ⁵⁵ 14	14 ⁰⁸ 15	5 ⁵² 21	17 ⁰⁹ 19	3 ⁰⁰ R 2	9 ⁰⁰ R50	22 ⁰² 11	11 ⁰⁰ R51	12 ⁰² 2	19 ⁰⁰ 53	25 ⁰⁰ R44	F 1
S 2	18 41 47	10 ⁰⁰ 20'18	11 ⁰⁰ 40	11 ⁰⁰ 13	9 ⁰⁰ 28	14 ⁰⁰ 57	5 ⁰⁰ 26	17 ⁰⁰ 17	2 ⁰⁰ 59	9 ⁰⁰ 48	22 ⁰⁰ 11	11 ⁰⁰ 47	11 ⁰⁰ 59	20 ⁰⁰ 0	25 ⁰⁰ 41	S 2
S 3	18 45 44	11 ⁰⁰ 17'30	23 ⁰⁰ 29	13 ⁰⁰ 22	10 ⁰⁰ 41	15 ⁰⁰ 40	5 ⁰⁰ 32	17 ⁰⁰ 15	2 ⁰⁰ 57	9 ⁰⁰ 47	22 ⁰⁰ 13	11 ⁰⁰ 44	11 ⁰⁰ 56	20 ⁰⁰ 7	25 ⁰⁰ 38	S 3
M 4	18 49 40	12 ⁰⁰ 14'42	5 ⁰⁰ 17	15 ⁰⁰ 30	11 ⁰⁰ 55	16 ⁰⁰ 22	5 ⁰⁰ 37	17 ⁰⁰ 14	2 ⁰⁰ 55	9 ⁰⁰ 45	22 ⁰⁰ 14	11 ⁰⁰ 44	11 ⁰⁰ 53	20 ⁰⁰ 13	25 ⁰⁰ 34	M 4
T 5	18 53 37	13 ⁰⁰ 11'53	17 ⁰⁰ 10	17 ⁰⁰ 38	13 ⁰⁰ 9	17 ⁰⁰ 5	5 ⁰⁰ 43	17 ⁰⁰ 12	2 ⁰⁰ 53	9 ⁰⁰ 43	22 ⁰⁰ 16	11 ⁰⁰ 44	11 ⁰⁰ 49	20 ⁰⁰ 20	25 ⁰⁰ 31	T 5
W 6	18 57 34	14 ⁰⁰ 9'05	29 ⁰⁰ 13	19 ⁰⁰ 44	14 ⁰⁰ 23	17 ⁰⁰ 47	5 ⁰⁰ 49	17 ⁰⁰ 11	2 ⁰⁰ 51	9 ⁰⁰ 42	22 ⁰⁰ 17	11 ⁰⁰ 43	11 ⁰⁰ 46	20 ⁰⁰ 27	25 ⁰⁰ 27	W 6
T 7	19 1 30	15 ⁰⁰ 6'16	11 ⁰⁰ 31	21 ⁰⁰ 48	15 ⁰⁰ 37	18 ⁰⁰ 29	5 ⁰⁰ 55	17 ⁰⁰ 9	2 ⁰⁰ 48	9 ⁰⁰ 40	22 ⁰⁰ 18	11 ⁰⁰ 41	11 ⁰⁰ 43	20 ⁰⁰ 33	25 ⁰⁰ 24	T 7
F 8	19 5 27	16 ⁰⁰ 3'28	24 ⁰⁰ 9	23 ⁰⁰ 51	16 ⁰⁰ 50	19 ⁰⁰ 11	6 ⁰⁰ 1	17 ⁰⁰ 8	2 ⁰⁰ 46	9 ⁰⁰ 39	22 ⁰⁰ 20	11 ⁰⁰ 37	11 ⁰⁰ 40	20 ⁰⁰ 40	25 ⁰⁰ 20	F 8
S 9	19 9 23	17 ⁰⁰ 0'40	7 ⁰⁰ 10	25 ⁰⁰ 53	18 ⁰⁰ 4	19 ⁰⁰ 53	6 ⁰⁰ 7	17 ⁰⁰ 7	2 ⁰⁰ 44	9 ⁰⁰ 37	22 ⁰⁰ 21	11 ⁰⁰ 30	11 ⁰⁰ 37	20 ⁰⁰ 47	25 ⁰⁰ 17	S 9
S 10	19 13 20	17 ⁰⁰ 57'51	20 ⁰⁰ 37	27 ⁰⁰ 53	19 ⁰⁰ 18	20 ⁰⁰ 35	6 ⁰⁰ 14	17 ⁰⁰ 6	2 ⁰⁰ 42	9 ⁰⁰ 35	22 ⁰⁰ 22	11 ⁰⁰ 21	11 ⁰⁰ 33	20 ⁰⁰ 53	25 ⁰⁰ 13	S 10
M 11	19 17 16	18 ⁰⁰ 55'04	4 ⁰⁰ 27	29 ⁰⁰ 51	20 ⁰⁰ 32	21 ⁰⁰ 17	6 ⁰⁰ 20	17 ⁰⁰ 5	2 ⁰⁰ 39	9 ⁰⁰ 34	22 ⁰⁰ 23	11 ⁰⁰ 11	11 ⁰⁰ 30	21 ⁰⁰ 0	25 ⁰⁰ 10	M 11
T 12	19 21 13	19 ⁰⁰ 52'16	18 ⁰⁰ 39	1 ⁰⁰ 48	21 ⁰⁰ 46	21 ⁰⁰ 59	6 ⁰⁰ 27	17 ⁰⁰ 4	2 ⁰⁰ 37	9 ⁰⁰ 32	22 ⁰⁰ 25	10 ⁰⁰ 59	11 ⁰⁰ 27	21 ⁰⁰ 6	25 ⁰⁰ 7	T 12
W 13	19 25 9	20 ⁰⁰ 49'29	3 ⁰⁰ 7	3 ⁰⁰ 43	22 ⁰⁰ 59	22 ⁰⁰ 41	6 ⁰⁰ 34	17 ⁰⁰ 3	2 ⁰⁰ 35	9 ⁰⁰ 31	22 ⁰⁰ 26	10 ⁰⁰ 48	11 ⁰⁰ 24	21 ⁰⁰ 13	25 ⁰⁰ 3	W 13
T 14	19 29 6	21 ⁰⁰ 46'42	17 ⁰⁰ 45	5 ⁰⁰ 36	24 ⁰⁰ 13	23 ⁰⁰ 22	6 ⁰⁰ 41	17 ⁰⁰ 2	2 ⁰⁰ 32	9 ⁰⁰ 29	22 ⁰⁰ 27	10 ⁰⁰ 39	11 ⁰⁰ 21	21 ⁰⁰ 20	25 ⁰⁰ 0	T 14
F 15	19 33 3	22 ⁰⁰ 43'56	2 ⁰⁰ 24	7 ⁰⁰ 27	25 ⁰⁰ 27	24 ⁰⁰ 4	6 ⁰⁰ 48	17 ⁰⁰ 2	2 ⁰⁰ 30	9 ⁰⁰ 27	22 ⁰⁰ 29	10 ⁰⁰ 33	11 ⁰⁰ 18	21 ⁰⁰ 26	24 ⁰⁰ 56	F 15
S 16	19 36 59	23 ⁰⁰ 41'11	16 ⁰⁰ 59	9 ⁰⁰ 17	26 ⁰⁰ 41	24 ⁰⁰ 45	6 ⁰⁰ 55	17 ⁰⁰ 1	2 ⁰⁰ 28	9 ⁰⁰ 26	22 ⁰⁰ 30	10 ⁰⁰ 29	11 ⁰⁰ 14	21 ⁰⁰ 33	24 ⁰⁰ 52	S 16
S 17	19 40 56	24 ⁰⁰ 38'26	1 ⁰⁰ 24	11 ⁰⁰ 4	27 ⁰⁰ 55	25 ⁰⁰ 27	7 ⁰⁰ 3	17 ⁰⁰ 1	2 ⁰⁰ 25	9 ⁰⁰ 24	22 ⁰⁰ 31	10 ⁰⁰ 27	11 ⁰⁰ 11	21 ⁰⁰ 40	24 ⁰⁰ 49	S 17
M 18	19 44 52	25 ⁰⁰ 35'43	15 ⁰⁰ 37	12 ⁰⁰ 50	29 ⁰⁰ 9	26 ⁰⁰ 8	7 ⁰⁰ 10	17 ⁰⁰ 0	2 ⁰⁰ 23	9 ⁰⁰ 23	22 ⁰⁰ 32	10 ⁰⁰ D27	11 ⁰⁰ 8	21 ⁰⁰ 46	24 ⁰⁰ 45	M 18
T 19	19 48 49	26 ⁰⁰ 33'00	29 ⁰⁰ 37	14 ⁰⁰ 34	0 ⁰⁰ 23	26 ⁰⁰ 49	7 ⁰⁰ 18	17 ⁰⁰ 0	2 ⁰⁰ 21	9 ⁰⁰ 21	22 ⁰⁰ 34	10 ⁰⁰ R27	11 ⁰⁰ 5	21 ⁰⁰ 53	24 ⁰⁰ 42	T 19
W 20	19 52 45	27 ⁰⁰ 30'18	13 ⁰⁰ 23	16 ⁰⁰ 17	1 ⁰⁰ 37	27 ⁰⁰ 30	7 ⁰⁰ 26	17 ⁰⁰ 0	2 ⁰⁰ 18	9 ⁰⁰ 20	22 ⁰⁰ 35	10 ⁰⁰ 26	11 ⁰⁰ 2	22 ⁰⁰ 0	24 ⁰⁰ 38	W 20
T 21	19 56 42	28 ⁰⁰ 27'38	26 ⁰⁰ 55	17 ⁰⁰ 57	2 ⁰⁰ 51	28 ⁰⁰ 11	7 ⁰⁰ 33	17 ⁰⁰ D 0	2 ⁰⁰ 16	9 ⁰⁰ 18	22 ⁰⁰ 36	10 ⁰⁰ 23	10 ⁰⁰ 59	22 ⁰⁰ 6	24 ⁰⁰ 35	T 21
F 22	20 0 38	29 ⁰⁰ 24'58	10 ⁰⁰ 16	19 ⁰⁰ 36	4 ⁰⁰ 5	28 ⁰⁰ 52	7 ⁰⁰ 41	17 ⁰⁰ 0	2 ⁰⁰ 13	9 ⁰⁰ 17	22 ⁰⁰ 37	10 ⁰⁰ 18	10 ⁰⁰ 55	22 ⁰⁰ 13	24 ⁰⁰ 31	F 22
S 23	20 4 35	0 ⁰⁰ 22'19	23 ⁰⁰ 24	21 ⁰⁰ 13	5 ⁰⁰ 19	29 ⁰⁰ 33	7 ⁰⁰ 50	17 ⁰⁰ 0	2 ⁰⁰ 11	9 ⁰⁰ 15	22 ⁰⁰ 38	10 ⁰⁰ 10	10 ⁰⁰ 52	22 ⁰⁰ 20	24 ⁰⁰ 28	S 23
S 24	20 8 32	1 ⁰⁰ 19'41	6 ⁰⁰ 20	22 ⁰⁰ 48	6 ⁰⁰ 33	0 ⁰⁰ 11	7 ⁰⁰ 58	17 ⁰⁰ 0	2 ⁰⁰ 9	9 ⁰⁰ 14	22 ⁰⁰ 39	10 ⁰⁰ 0	10 ⁰⁰ 49	22 ⁰⁰ 26	24 ⁰⁰ 24	S 24
M 25	20 12 28	2 ⁰⁰ 17'05	19 ⁰⁰ 3	24 ⁰⁰ 22	7 ⁰⁰ 47	0 ⁰⁰ 54	8 ⁰⁰ 6	17 ⁰⁰ 1	2 ⁰⁰ 6	9 ⁰⁰ 12	22 ⁰⁰ 41	9 ⁰⁰ 48	10 ⁰⁰ 46	22 ⁰⁰ 33	24 ⁰⁰ 21	M 25
T 26	20 16 25	3 ⁰⁰ 14'29	1 ⁰⁰ 35	25 ⁰⁰ 54	9 ⁰⁰ 1	1 ⁰⁰ 35	8 ⁰⁰ 15	17 ⁰⁰ 1	2 ⁰⁰ 4	9 ⁰⁰ 11	22 ⁰⁰ 42	9 ⁰⁰ 36	10 ⁰⁰ 43	22 ⁰⁰ 40	24 ⁰⁰ 18	T 26
W 27	20 20 21	4 ⁰⁰ 11'54	13 ⁰⁰ 54	27 ⁰⁰ 24	10 ⁰⁰ 15	2 ⁰⁰ 15	8 ⁰⁰ 23	17 ⁰⁰ 2	2 ⁰⁰ 1	9 ⁰⁰ 9	22 ⁰⁰ 43	9 ⁰⁰ 26	10 ⁰⁰ 39	22 ⁰⁰ 46	24 ⁰⁰ 14	W 27
T 28	20 24 18	5 ⁰⁰ 9'19	26 ⁰⁰ 3	28 ⁰⁰ 52	11 ⁰⁰ 29	2 ⁰⁰ 56	8 ⁰⁰ 32	17 ⁰⁰ 2	1 ⁰⁰ 59	9 ⁰⁰ 8	22 ⁰⁰ 44	9 ⁰⁰ 16	10 ⁰⁰ 36	22 ⁰⁰ 53	24 ⁰⁰ 11	T 28
F 29	20 28 14	6 ⁰⁰ 6'46	8 ⁰⁰ 1	0 ⁰⁰ 18	12 ⁰⁰ 43	3 ⁰⁰ 36	8 ⁰⁰ 41	17 ⁰⁰ 3	1 ⁰⁰ 57	9 ⁰⁰ 7	22 ⁰⁰ 45	9 ⁰⁰ 10	10 ⁰⁰ 33	23 ⁰⁰ 0	24 ⁰⁰ 7	F 29
S 30	20 32 11	7 ⁰⁰ 4'13	19 ⁰⁰ 52	1 ⁰⁰ 43	13 ⁰⁰ 57	4 ⁰⁰ 16	8 ⁰⁰ 49	17 ⁰⁰ 4	1 ⁰⁰ 54	9 ⁰⁰ 5	22 ⁰⁰ 46	9 ⁰⁰ 5	10 ⁰⁰ 30	23 ⁰⁰ 6	24 ⁰⁰ 4	S 30
S 31	20 36 7	8 ⁰⁰ 1'41	1 ⁰⁰ 39	3 ⁰⁰ 1	15 ⁰⁰ 11	4 ⁰⁰ 11	8 ⁰⁰ 58	17 ⁰⁰ 5	1 ⁰⁰ 52	9 ⁰⁰ 4	22 ⁰⁰ 47	9 ⁰⁰ 3	10 ⁰⁰ 27	23 ⁰⁰ 13	24 ⁰⁰ 3	S 31

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat	decl	lat
F 1	23n 9	8n25	3s23	24n30	1n20	23n46	0n33	15n14	0s58	0s55	1n19	14s50	2n18	20s 7	0s37	22s14	0n53	16n16	7s 0	4s42	4s46	2n13	13s39	7n30			
S 2	23 5	4 51	2 32	24 26	1 26	23 44	0 35	15 27	0 57	0 58	1 18	14 50	2 17	20 7	0 37	22 14	0 53	16 16	7 0	4 40	4 45	2 12	13 40	7 30			
S 3	23 0	1 8	1 35	24 20	1 32	23 40	0 37	15 40	0 56	1 0	1 18	14 49	2 17	20 8	0 37	22 14	0 53	16 16	7 0	4 39	4 43	2 10	13 40	7 30			
M 4	22 55	2s38	0 34	24 10	1 36	23 36	0 39	15 52	0 56	1 3	1 18	14 49	2 17	20 8	0 37	22 15	0 53	16 16	7 0	4 39	4 42	2 8	13 41	7 31			
T 5	22 49	6 19	0n29	23 59	1 41	23 31	0 41	16 5	0 55	1 5	1 18	14 49	2 17	20 9	0 37	22 15	0 53	16 16	7 0	4 39	4 41	2 6	13 41	7 31			
W 6	22 44	9 47	1 31	23 44	1 44	23 25	0 44	16 17	0 55	1 8	1 17	14 49	2 16	20 10	0 37	22 15	0 53	16 16	7 0	4 38	4 40	2 4	13 42	7 31			
T 7	22 37	12 55	2 31	23 28	1 47	23 19	0 46	16 30	0 54	1 10	1 17	14 49	2 16	20 10	0 37	22 15	0 53	16 16	7 0	4 38	4 38	2 2	13 42	7 31			
F 8	22 31	15 32	3 25	23 9	1 48	23 12	0 48	16 42	0 53	1 13	1 17	14 48	2 16	20 11	0 37	22 15	0 53	16 16	7 0	4 36	4 37	2 0	13 43	7 31			
S 9	22 24	17 27	4 9	22 48	1 50	23 5	0 50	16 54	0 53	1 16	1 17	14 48	2 16	20 11	0 37	22 15	0 53	16 16	7 0	4 33	4 36	1 59	13 43	7 31			
S 10	22 16	18 28	4 42	22 25	1 50	22 56	0 51	17 6	0 52	1 18	1 17	14 48	2 15	20 12	0 37	22 15	0 53	16 16	7 0	4 30	4 35	1 57	13 44	7 31			
M 11	22 9	18 25	4 59	22 0	1 50	22 47	0 53	17 17	0 51	1 21	1 16	14 48	2 15	20 12	0 37	22 15	0 53	16 16	7 0	4 26	4 33	1 55	13 44	7 31			
T 12	22 0	17 15	4 58	21 34	1 49	22 38	0 55	17 29	0 51	1 24	1 16	14 48	2 15	20 13	0 37	22 16	0 53	16 16	7 0	4 21	4 32	1 53	13 45	7 31			
W 13	21 52	14 58	4 39	21 6	1 48	22 27	0 57	17 40	0 50	1 27	1 16	14 48	2 15	20 13	0 37	22 16	0 53	16 16	7 0	4 17	4 31	1 51	13 45	7 31			
T 14	21 43	11 43	4 1	20 36	1 45	22 16	0 59	17 51	0 49	1 30	1 16	14 48	2 14	20 14	0 37	22 16	0 53	16 16	7 0	4 13	4 30	1 49	13 46	7 31			
F 15	21 34	7 44	3 7	20 6	1 43	22 5	1 0	18 2	0 49	1 33	1 15	14 48	2 14	20 14	0 37	22 16	0 53	16 17	7 0	4 11	4 29	1 47	13 46	7 31			
S 16	21 24	3 18	2 1	19 34	1 40	21 52	1 2	18 13	0 48	1 36	1 15	14 48	2 14	20 15	0 37	22 16	0 53	16 17	7 0	4 9	4 27	1 46	13 47	7 32			
S 17	21 14	1n17	0 48	19 1	1 36	21 39	1 4	18 24	0 47	1 39	1 15	14 49	2 14	20 15	0 37	22 16	0 53	16 17	7 0	4 9	4 26	1 44	13 48	7 32			
M 18	21 4	5 44	0s27	18 27	1 31	21 26	1 5	18 34	0 46	1 42	1 15	14 49	2 13	20 16	0 37	22 16	0 53	16 17	7 0	4 9	4 25	1 42	13 48	7 32			
T 19	20 53	9 48	1 40	17 52	1 27	21 12	1 7	18 44	0 46	1 46	1 15	14 49	2 13	20 17	0 37	22 16	0 53	16 17	7 0	4 9	4 24	1 40	13 49	7 31			
W 20	20 42	13 15	2 45	17 17	1 21	20 57	1 8	18 54	0 45	1 49	1 14	14 49	2 13	20 17	0 37	22 17	0 53	16 17	7 0	4 8	4 22	1 38	13 49	7 31			
T 21	20 30	15 56	3 40	16 41	1 16	20 41	1 10	19 4	0 44	1 52	1 14	14 49	2 13	20 18	0 37	22 17	0 53	16 17	7 0	4 7	4 21	1 36	13 50	7 31			
F 22	20 18	17 42	4 22	16 4	1 10	20 25	1 11	19 14	0 44	1 55	1 14	14 50	2 12	20 18	0 37	22 17	0 53	16 17	7 0	4 5	4 20	1 34	13 51	7 31			
S 23	20 6	18 29	4 50	15 27	1 3	20 9	1 12	19 24	0 43	1 59	1 14	14 50	2 12	20 19	0 37	22 17	0 53	16 17	7 0	4 2	4 19	1 33	13 51	7 31			
S 24	19 54	18 18	5 2	14 50	0 56	19 51	1 14	19 33	0 42	2 2	1 14	14 50	2 12	20 19	0 37	22 17	0 53	16 17	7 0	3 58	4 17	1 31	13 52	7 31			
M 25	19 41	17 12	4 59	14 12	0 49	19 34	1 15	19 42	0 41	2 6	1 13	14 51	2 11	20 20	0 37	22 17	0 53	16 17	7 1	3 53	4 16	1 29	13 53	7 31			
T 26	19 28	15 16	4 41	13 34	0 42	19 15	1 16	19 51	0 40	2 9	1 13	14 51	2 11	20 20	0 37	22 17	0 53	16 17	7 1	3 49	4 15	1 27	13 53	7 31			
W 27	19 14	12 41	4 10	12 56	0 34	18 57	1 17	20 0	0 40	2 13	1 13	14 51	2 11	20 21	0 37	22 17	0 52	16 17	7 1	3 44	4 14	1 25	13 54	7 31			
T 28	19 1	9 35	3 29	12 17	0 26	18 37	1 18	20 9	0 39	2 16	1 13	14 52	2 11	20 21	0 37	22 18	0 52	16 17	7 1	3 41	4 12	1 23	13 55	7 31			
F 29	18 47	6 8	2 38	11 39	0 17	18 17	1 19	20 17	0 38	2 20	1 13	14 52	2 10	20 22	0 37	22 18	0 52	16 17	7 1	3 38	4 11	1 21	13 55	7 31			
S 30	18 32	2 28	1 41	11 1	0 8	17 57	1 20	20 25	0 37	2 24	1 12	14 53	2 10	20 23	0 37	22 18	0 52	16 17	7 1	3 37	4 10	1 20	13 56	7 31			
S 31	18n18	1s16	0s40	10n23	0s 1	17n36	1n21	20n34	0s36	2s27	1n12	14s53	2n10	20s23	0s37	22s18	0n52	16n17	7s 1	3s36	4s 9	1n18	13s57	7n30			

ASTRODIENST EPHEMERIS for the year 1661

geocentric

AUGUST 1661 GC

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 40 4	8♂59°10	13♂26	4♂26	16♂25	5♂36	9♂8	17♂6	1°R49	9°R 2	22♂48	9°D 3	10♂24	23♂20	23°R57	M 1
T 2	20 44 1	9°56'40	25°18	5°45	17°39	6°16	9°17	17° 7	1♂47	9♂1	22°49	9♂4	10°20	23°26	23♂54	T 2
W 3	20 47 57	10°54'10	7♂20	7° 2	18°53	6°55	9°26	17° 8	1°45	9° 0	22°50	9°R 5	10°17	23°33	23°51	W 3
T 4	20 51 54	11°51'42	19°37	8°17	20° 7	7°35	9°36	17°10	1°42	8°58	22°51	9° 4	10°14	23°39	23°47	T 4
F 5	20 55 50	12°49'14	2♂14	9°30	21°21	8°14	9°45	17°11	1°40	8°57	22°52	9° 2	10°11	23°46	23°44	F 5
S 6	20 59 47	13°46'48	15°15	10°40	22°35	8°54	9°55	17°13	1°38	8°56	22°53	8°58	10° 8	23°53	23°41	S 6
S 7	21 3 43	14°44'22	28°44	11°48	23°49	9°33	10° 4	17°14	1°35	8°55	22°54	8°53	10° 5	23°59	23°38	S 7
M 8	21 7 40	15°41'57	12♂40	12°54	25° 3	10°12	10°14	17°16	1°33	8°53	22°55	8°45	10° 1	24° 6	23°35	M 8
T 9	21 11 36	16°39'33	27° 3	13°58	26°17	10°51	10°24	17°18	1°31	8°52	22°56	8°37	9°58	24°13	23°31	T 9
W10	21 15 33	17°37'11	11♂46	14°59	27°31	11°30	10°34	17°20	1°28	8°51	22°57	8°29	9°55	24°19	23°28	W10
T 11	21 19 30	18°34'49	26°43	15°57	28°45	12° 9	10°44	17°22	1°26	8°50	22°58	8°23	9°52	24°26	23°25	T 11
F 12	21 23 26	19°32'29	11♂43	16°53	29°59	12°47	10°54	17°24	1°24	8°49	22°59	8°18	9°49	24°33	23°22	F 12
S 13	21 27 23	20°30'10	26°40	17°45	1♂14	13°26	11° 4	17°26	1°22	8°48	23° 0	8°16	9°45	24°39	23°19	S 13
S 14	21 31 19	21°27'53	11♂25	18°35	2°28	14° 4	11°15	17°28	1°19	8°47	23° 1	8°D15	9°42	24°46	23°17	S 14
M15	21 35 16	22°25'38	25°52	19°21	3°42	14°43	11°25	17°30	1°17	8°45	23° 1	8°16	9°39	24°53	23°14	M15
T 16	21 39 12	23°23'24	10♂0	20° 4	4°56	15°21	11°36	17°33	1°15	8°44	23° 2	8°17	9°36	24°59	23°11	T 16
W17	21 43 9	24°21'12	23°48	20°43	6°10	15°59	11°46	17°35	1°13	8°43	23° 3	8°R18	9°33	25° 6	23° 8	W17
T 18	21 47 5	25°19'02	7♂16	21°18	7°24	16°37	11°57	17°38	1°11	8°42	23° 4	8°17	9°30	25°13	23° 5	T 18
F 19	21 51 2	26°16'54	20°25	21°49	8°38	17°15	12° 8	17°41	1° 9	8°41	23° 4	8°15	9°26	25°19	23° 3	F 19
S 20	21 54 58	27°14'47	3♂19	22°15	9°53	17°52	12°19	17°43	1° 7	8°41	23° 5	8°11	9°23	25°26	23° 0	S 20
S 21	21 58 55	28°12'42	15°58	22°37	11° 7	18°30	12°29	17°46	1° 5	8°40	23° 6	8° 5	9°20	25°33	22°57	S 21
M22	22 2 52	29°10'39	28°25	22°54	12°21	19° 7	12°40	17°49	1° 3	8°39	23° 7	7°58	9°17	25°39	22°55	M22
T 23	22 6 48	0♂8'38	10♂41	23° 6	13°35	19°44	12°51	17°52	1° 1	8°38	23° 7	7°51	9°14	25°46	22°52	T 23
W24	22 10 45	1° 6'38	22°47	23°13	14°49	20°22	13° 3	17°55	0°59	8°37	23° 8	7°45	9°11	25°52	22°50	W24
T 25	22 14 41	2° 4'40	4♂46	23°R14	16° 3	20°59	13°14	17°59	0°57	8°36	23° 9	7°40	9° 7	25°59	22°47	T 25
F 26	22 18 38	3° 2'44	16°38	23° 8	17°17	21°35	13°25	18° 2	0°55	8°35	23° 9	7°36	9° 4	26° 6	22°45	F 26
S 27	22 22 34	4° 0'49	28°25	22°57	18°32	22°12	13°36	18° 5	0°53	8°35	23°10	7°34	9° 1	26°12	22°43	S 27
S 28	22 26 31	4°58'55	10♂12	22°40	19°46	22°49	13°48	18° 9	0°51	8°34	23°10	7°D33	8°58	26°19	22°41	S 28
M29	22 30 27	5°57'03	21°59	22°16	21° 0	23°25	13°59	18°12	0°49	8°33	23°11	7°34	8°55	26°26	22°38	M29
T 30	22 34 24	6°55'13	3♂52	21°46	22°14	24° 1	14°11	18°16	0°47	8°33	23°11	7°36	8°51	26°32	22°36	T 30
W31	22 38 21	7♂53'25	15♂54	21♂10	23♂28	24♂37	14♂22	18♂20	0♂46	8♂32	23♂12	7♂38	8♂48	26♂39	22♂34	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	18n 2	4s57	0n24	9n45	0s10	17n15	1n22	20n41	0s36	2s31	1n12	14s54	2n10	20s24	0s37	22s18
T 2	17 47	8 28	1 26	9 7	0 19	16 53	1 23	20 49	0 35	2 35	1 12	14 54	2 9	20 24	0 37	22 18
W 3	17 32	11 41	2 26	8 30	0 29	16 30	1 23	20 57	0 34	2 39	1 12	14 55	2 9	20 25	0 37	22 18
T 4	17 16	14 27	3 20	7 53	0 39	16 8	1 24	21 4	0 33	2 43	1 11	14 56	2 9	20 25	0 37	22 18
F 5	17 0	16 37	4 6	7 16	0 49	15 44	1 24	21 11	0 32	2 47	1 11	14 56	2 9	20 26	0 37	22 19
S 6	16 43	18 0	4 41	6 40	0 59	15 21	1 25	21 18	0 31	2 51	1 11	14 57	2 8	20 26	0 37	22 19
S 7	16 26	18 26	5 2	6 5	1 9	14 57	1 25	21 25	0 30	2 55	1 11	14 58	2 8	20 27	0 37	22 19
M 8	16 9	17 48	5 6	5 30	1 20	14 32	1 26	21 32	0 30	2 59	1 11	14 58	2 8	20 27	0 37	22 19
T 9	15 52	16 1	4 51	4 56	1 30	14 7	1 26	21 38	0 29	3 3	1 11	14 59	2 8	20 28	0 37	22 19
W10	15 35	13 10	4 17	4 23	1 41	13 42	1 26	21 44	0 28	3 7	1 10	15 0	2 7	20 28	0 37	22 19
T 11	15 17	9 25	3 25	3 50	1 51	13 17	1 26	21 51	0 27	3 11	1 10	15 1	2 7	20 29	0 37	22 19
F 12	14 59	5 3	2 18	3 19	2 2	12 51	1 27	21 57	0 26	3 15	1 10	15 1	2 7	20 29	0 37	22 19
S 13	14 41	0 23	1 2	2 49	2 13	12 24	1 27	22 2	0 25	3 19	1 10	15 2	2 7	20 30	0 37	22 19
S 14	14 22	4n16	0s17	2 20	2 23	11 58	1 27	22 8	0 24	3 23	1 10	15 3	2 6	20 30	0 37	22 19
M15	14 4	8 33	1 34	1 52	2 34	11 31	1 26	22 13	0 23	3 27	1 10	15 4	2 6	20 31	0 37	22 20
T 16	13 45	12 15	2 43	1 26	2 44	11 3	1 26	22 18	0 22	3 32	1 9	15 5	2 6	20 31	0 37	22 20
W17	13 26	15 10	3 42	1 1	2 54	10 36	1 26	22 23	0 21	3 36	1 9	15 6	2 6	20 32	0 37	22 20
T 18	13 6	17 11	4 26	0 38	3 4	10 8	1 26	22 28	0 20	3 40	1 9	15 7	2 5	20 32	0 37	22 20
F 19	12 47	18 13	4 55	0 17	3 14	9 40	1 25	22 33	0 19	3 45	1 9	15 8	2 5	20 33	0 37	22 20
S 20	12 27	18 17	5 9	0s 2	3 24	9 11	1 25	22 37	0 18	3 49	1 9	15 9	2 5	20 33	0 37	22 20
S 21	12 7	17 26	5 7	0 20	3 33	8 43	1 25	22 42	0 17	3 53	1 9	15 10	2 5	20 34	0 37	22 20
M22	11 47	15 46	4 51	0 34	3 42	8 14	1 24	22 46	0 16	3 58	1 9	15 11	2 4	20 34	0 37	22 20
T 23	11 26	13 24	4 21	0 46	3 50	7 45	1 23	22 50	0 15	4 2	1 8	15 12	2 4	20 34	0 37	22 20
W24	11 6	10 28	3 40	0 56	3 57	7 16	1 23	22 54	0 14	4 7	1 8	15 13	2 4	20 35	0 37	22 20
T 25	10 45	7 9	2 50	1 2	4 4	6 46	1 22	22 57	0 13	4 11	1 8	15 14	2 4	20 35	0 37	22 21
F 26	10 24	3 34	1 52	1 6	4 10	6 16	1 21	23 1	0 12	4 16	1 8	15 15	2 3	20 36	0 37	22 21
S 27	10 3	0s 8	0 50	1 6	4 15	5 46	1 20	23 4	0 11	4 20	1 8	15 17	2 3	20 36	0 37	22 21
S 28	9 42	3 49	0n14	1 3	4 19	5 16	1 19	23 7	0 10	4 25	1 8	15 18	2 3	20 36	0 37	22 21
M29	9 21	7 22	1 18	0 56	4 21	4 46	1 18	23 10	0 9	4 29	1 8	15 19	2 3	20 37	0 37	22 21
T 30	8 59	10 38	2 20	0 45	4 22	4 16	1 17	23 13	0 8	4 34	1 8	15 20	2 3	20 37	0 37	22 21
W31	8n38	13s30	3n15	0s31	4s22	3n46	1n16	23n16	0s 7	4s38	1n 7	15s21	2n 2	20s38	0s37	22s21

Julian Day Number = 2327940.5, Delta T = 35.31 sec
 Ecliptic obliquity = 23°28'51, Nutation = 0°00'04, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 20°01'00, Lahiri = 19°08'00Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1661

geocentric

SEPTEMBER 1661 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 42 17	8 ^h 51'37"	28 ^m 10	20°R28	24 ^m 42	25 ^h 13	14 ^h 34	18 ^m 24	0°R44	8°R31	23 ^h 12	7 ^h 39	8 ^h 45	26 ^m 46	22°R32	T 1
F 2	22 46 14	9°49'52"	10 ^h 44	19 ^m 41	25°57	25°49	14°46	18°27	0°42	8°31	23°13	7°R39	8°42	26°52	22°30	F 2
S 3	22 50 10	10°48'08"	23°41	18°49	27°11	26°25	14°57	18°31	0°40	8°30	23°13	7°39	8°39	26°59	22°29	S 3
S 4	22 54 7	11°46'25"	7 ^h 3	17°53	28°25	27° 0	15° 9	18°35	0°39	8°30	23°14	7°37	8°36	27° 6	22°27	S 4
M 5	22 58 3	12°44'44"	20°56	16°54	29°39	27°35	15°21	18°40	0°37	8°29	23°14	7°34	8°32	27°12	22°25	M 5
T 6	23 2 0	13°43'05"	5 ^h 15	15°54	0 ^h 53	28°11	15°33	18°44	0°36	8°29	23°14	7°31	8°29	27°19	22°23	T 6
W 7	23 5 56	14°41'27"	19°59	14°53	2° 7	28°45	15°45	18°48	0°34	8°28	23°15	7°28	8°26	27°26	22°22	W 7
T 8	23 9 53	15°39'51"	5 ^h 0	13°52	3°21	29°20	15°57	18°52	0°33	8°28	23°15	7°25	8°23	27°32	22°20	T 8
F 9	23 13 50	16°38'16"	20°12	12°54	4°36	29°55	16° 9	18°57	0°31	8°28	23°15	7°23	8°20	27°39	22°19	F 9
S 10	23 17 46	17°36'44"	5 ^h 23	12° 0	5°50	0 ^h 29	16°21	19° 1	0°30	8°27	23°16	7°D23	8°16	27°45	22°17	S 10
S 11	23 21 43	18°35'14"	20°25	11°11	7° 4	1° 4	16°33	19° 6	0°29	8°27	23°16	7°23	8°13	27°52	22°16	S 11
M12	23 25 39	19°33'45"	5 ^h 10	10°28	8°18	1°38	16°46	19°11	0°27	8°27	23°16	7°24	8°10	27°59	22°15	M12
T 13	23 29 36	20°32'19"	19°33	9°53	9°32	2°12	16°58	19°15	0°26	8°26	23°17	7°25	8° 7	28° 5	22°14	T 13
W14	23 33 32	21°30'55"	3 ^h 10	9°26	10°46	2°45	17°10	19°20	0°25	8°26	23°17	7°26	8° 4	28°12	22°12	W14
T 15	23 37 29	22°29'34"	17° 3	9° 8	12° 0	3°19	17°23	19°25	0°24	8°26	23°17	7°R27	8° 1	28°19	22°11	T 15
F 16	23 41 25	23°28'15"	0 ^h 12	9°D 0	13°14	3°52	17°35	19°30	0°22	8°26	23°17	7°27	7°57	28°25	22°10	F 16
S 17	23 45 22	24°26'58"	13° 0	9° 1	14°29	4°26	17°47	19°35	0°21	8°26	23°17	7°26	7°54	28°32	22° 9	S 17
S 18	23 49 19	25°25'43"	25°30	9°13	15°43	4°59	18° 0	19°40	0°20	8°26	23°17	7°25	7°51	28°39	22° 9	S 18
M19	23 53 15	26°24'30"	7 ^h 14	9°34	16°57	5°31	18°12	19°45	0°19	8°26	23°17	7°24	7°48	28°45	22° 8	M19
T 20	23 57 12	27°23'20"	19°50	10° 5	18°11	6° 4	18°25	19°50	0°18	8°D26	23°18	7°22	7°45	28°52	22° 7	T 20
W21	0 1 8	28°22'12"	1 ^h 47	10°45	19°25	6°36	18°38	19°55	0°17	8°26	23°18	7°21	7°42	28°59	22° 7	W21
T 22	0 5 5	29°21'05"	13°38	11°33	20°39	7° 8	18°50	20° 1	0°16	8°26	23°18	7°20	7°38	29° 5	22° 6	T 22
F 23	0 9 1	0 ^h 20'01"	25°26	12°29	21°53	7°40	19° 3	20° 6	0°16	8°26	23°R18	7°19	7°35	29°12	22° 5	F 23
S 24	0 12 58	1°18'59"	7 ^h 13	13°33	23° 7	8°12	19°16	20°11	0°15	8°26	23°18	7°D19	7°32	29°19	22° 5	S 24
S 25	0 16 54	2°17'59"	19° 1	14°43	24°21	8°43	19°28	20°17	0°14	8°26	23°18	7°19	7°29	29°25	22° 5	S 25
M26	0 20 51	3°17'02"	0 ^h 53	16° 0	25°35	9°15	19°41	20°22	0°13	8°26	23°17	7°19	7°26	29°32	22° 4	M26
T 27	0 24 47	4°16'06"	12°52	17°21	26°49	9°46	19°54	20°28	0°13	8°27	23°17	7°20	7°22	29°38	22° 4	T 27
W28	0 28 44	5°15'11"	24°59	18°47	28° 3	10°16	20° 7	20°34	0°12	8°27	23°17	7°20	7°19	29°45	22° 4	W28
T 29	0 32 41	6°14'19"	7 ^h 19	20°17	29°18	10°47	20°19	20°39	0°12	8°27	23°17	7°20	7°16	29°52	22°D 4	T 29
F 30	0 36 37	7 ^h 13'29"	19 ^h 54	21 ^m 50	0 ^h 32	11 ^h 17	20 ^h 32	20 ^m 45	0 ^h 11	8 ^h 27	23 ^h 17	7°R20	7 ^h 13	29 ^m 58	22°3 4	F 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	8n16	15s50	4n 3	0s12	4s20	3n15	1n15	23n18	0s 6	4s43	1n 7	15s23	2n 2	20s38	0s37	22s21
F 2	7 54	17 27	4 41	0n10	4 16	2 44	1 14	23 20	0 4	4 48	1 7	15 24	2 2	20 38	0 37	22 21
S 3	7 32	18 14	5 6	0 35	4 11	2 14	1 12	23 23	0 3	4 52	1 7	15 25	2 2	20 39	0 37	22 21
S 4	7 10	18 3	5 15	1 4	4 3	1 43	1 11	23 25	0 2	4 57	1 7	15 27	2 1	20 39	0 37	22 21
M 5	6 47	16 48	5 6	1 36	3 53	1 12	1 9	23 26	0 1	5 2	1 7	15 28	2 1	20 39	0 37	22 21
T 6	6 25	14 29	4 39	2 10	3 42	0 41	1 8	23 28	0n 0	5 6	1 7	15 29	2 1	20 40	0 37	22 21
W 7	6 2	11 10	3 53	2 46	3 29	0 10	1 6	23 30	0 1	5 11	1 7	15 31	2 1	20 40	0 37	22 21
T 8	5 40	7 4	2 49	3 23	3 14	0s21	1 5	23 31	0 2	5 16	1 7	15 32	2 1	20 40	0 37	22 22
F 9	5 17	2 27	1 34	4 0	2 57	0 52	1 3	23 32	0 4	5 21	1 6	15 33	2 0	20 41	0 37	22 22
S 10	4 54	2n19	0 11	4 37	2 39	1 23	1 1	23 34	0 5	5 25	1 6	15 35	2 0	20 41	0 37	22 22
S 11	4 31	6 53	1s12	5 13	2 21	1 54	1 0	23 35	0 6	5 30	1 6	15 36	2 0	20 41	0 37	22 22
M12	4 8	10 57	2 28	5 47	2 1	2 25	0 58	23 35	0 7	5 35	1 6	15 38	2 0	20 41	0 37	22 22
T 13	3 45	14 14	3 33	6 19	1 41	2 56	0 56	23 36	0 8	5 40	1 6	15 39	1 59	20 42	0 37	22 22
W14	3 22	16 35	4 23	6 47	1 22	3 27	0 54	23 37	0 10	5 44	1 6	15 41	1 59	20 42	0 37	22 22
T 15	2 59	17 55	4 57	7 12	1 2	3 57	0 52	23 37	0 11	5 49	1 6	15 42	1 59	20 42	0 37	22 22
F 16	2 36	18 14	5 15	7 33	0 43	4 28	0 50	23 38	0 12	5 54	1 6	15 44	1 59	20 42	0 37	22 22
S 17	2 13	17 37	5 16	7 50	0 24	4 59	0 48	23 38	0 14	5 59	1 6	15 45	1 59	20 43	0 37	22 22
S 18	1 49	16 8	5 1	8 2	0 6	5 30	0 46	23 38	0 15	6 4	1 6	15 47	1 59	20 43	0 37	22 22
M19	1 26	13 57	4 34	8 9	0n10	6 0	0 43	23 38	0 16	6 9	1 5	15 48	1 58	20 43	0 37	22 22
T 20	1 2	11 11	3 54	8 12	0 26	6 30	0 41	23 38	0 17	6 13	1 5	15 50	1 58	20 43	0 37	22 22
W21	0 39	7 59	3 5	8 10	0 40	7 1	0 39	23 38	0 19	6 18	1 5	15 51	1 58	20 43	0 37	22 22
T 22	0 16	4 29	2 8	8 4	0 53	7 31	0 37	23 37	0 20	6 23	1 5	15 53	1 58	20 43	0 37	22 22
F 23	0s 8	0 49	1 6	7 53	1 5	8 1	0 34	23 37	0 22	6 28	1 5	15 55	1 58	20 44	0 37	22 22
S 24	0 31	2s53	0 1	7 39	1 16	8 30	0 32	23 36	0 23	6 33	1 5	15 56	1 57	20 44	0 37	22 22
S 25	0 55	6 28	1n 5	7 20	1 25	9 0	0 30	23 36	0 24	6 38	1 5	15 58	1 57	20 44	0 37	22 22
M26	1 18	9 49	2 7	6 57	1 33	9 29	0 27	23 35	0 26	6 43	1 5	15 59	1 57	20 44	0 37	22 22
T 27	1 42	12 47	3 5	6 32	1 39	9 59	0 25	23 34	0 27	6 48	1 5	16 1	1 57	20 44	0 37	22 22
W28	2 5	15 14	3 55	6 3	1 45	10 28	0 22	23 33	0 29	6 52	1 5	16 3	1 57	20 44	0 37	22 22
T 29	2 29	17 2	4 36	5 32	1 49	10 56	0 20	23 32	0 30	6 57	1 5	16 4	1 57	20 44	0 37	22 22
F 30	2s52	18s 3	5n 4	4n58	1n52	11s25	0n17	23n31	0n31	7s 2	1n 5	16s 6	1n56	20s44	0s37	22s22

Julian Day Number = 2327971.5, Delta T = 35.25 sec

Ecliptic obliquity = 23°28'51", Nutation = 0°00'03", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°01'04", Lahiri = 19°08'04"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1661
geocentric

OCTOBER 1661 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	0 40 34	8♌12'40	2♈49	23♎26	1♎46	11♏47	20♌45	20♎51	0°R11	8♏28	23°R17	7°D20	7♌10	0♌5	22♈4	S 1
S 2	0 44 30	9°11'54	16° 5	25° 5	3° 0	12°17	20°58	20°57	0°≈10	8°28	23♎17	7♌20	7° 7	0°12	22° 4	S 2
M 3	0 48 27	10°11'08	29°46	26°45	4°14	12°47	21°11	21° 3	0°10	8°29	23°16	7°20	7° 3	0°18	22° 5	M 3
T 4	0 52 23	11°10'25	13°≈52	28°27	5°28	13°16	21°24	21° 9	0°10	8°29	23°16	7°21	7° 0	0°25	22° 5	T 4
W 5	0 56 20	12° 9'44	28°23	0♌9	6°42	13°45	21°37	21°15	0° 9	8°30	23°16	7°21	6°57	0°32	22° 5	W 5
T 6	1 0 16	13° 9'04	13♋13	1°53	7°56	14°14	21°50	21°21	0° 9	8°30	23°16	7°22	6°54	0°38	22° 6	T 6
F 7	1 4 13	14° 8'26	28°19	3°37	9°10	14°42	22° 3	21°27	0° 9	8°31	23°15	7°22	6°51	0°45	22° 6	F 7
S 8	1 8 10	15° 7'50	13°V30	5°21	10°24	15°10	22°16	21°33	0° 9	8°31	23°15	7°R22	6°47	0°52	22° 7	S 8
S 9	1 12 6	16° 7'16	28°38	7° 5	11°37	15°38	22°29	21°39	0°D 9	8°32	23°15	7°22	6°44	0°58	22° 8	S 9
M10	1 16 3	17° 6'45	13♊33	8°50	12°51	16° 6	22°42	21°45	0° 9	8°33	23°14	7°21	6°41	1° 5	22° 9	M10
T 11	1 19 59	18° 6'15	28° 8	10°34	14° 5	16°33	22°55	21°52	0° 9	8°33	23°14	7°20	6°38	1°11	22° 9	T 11
W12	1 23 56	19° 5'48	12♎17	12°18	15°19	17° 0	23° 8	21°58	0° 9	8°34	23°13	7°18	6°35	1°18	22°10	W12
T 13	1 27 52	20° 5'23	26° 0	14° 2	16°33	17°27	23°21	22° 4	0° 9	8°35	23°13	7°17	6°32	1°25	22°11	T 13
F 14	1 31 49	21° 5'01	9♏15	15°45	17°47	17°53	23°34	22°11	0° 9	8°35	23°13	7°16	6°28	1°31	22°12	F 14
S 15	1 35 45	22° 4'40	22° 5	17°28	19° 1	18°19	23°47	22°17	0°10	8°36	23°12	7°D16	6°25	1°38	22°14	S 15
S 16	1 39 42	23° 4'22	4♎33	19°10	20°15	18°45	24° 0	22°24	0°10	8°37	23°12	7°16	6°22	1°45	22°15	S 16
M17	1 43 39	24° 4'07	16°45	20°52	21°29	19°10	24°14	22°30	0°10	8°38	23°11	7°17	6°19	1°51	22°16	M17
T 18	1 47 35	25° 3'53	28°44	22°33	22°43	19°35	24°27	22°37	0°11	8°39	23°11	7°18	6°16	1°58	22°17	T 18
W19	1 51 32	26° 3'42	10♎36	24°14	23°56	20° 0	24°40	22°43	0°11	8°40	23°10	7°20	6°13	2° 5	22°19	W19
T 20	1 55 28	27° 3'33	22°23	25°54	25°10	20°24	24°53	22°50	0°12	8°41	23° 9	7°21	6° 9	2°11	22°20	T 20
F 21	1 59 25	28° 3'26	4♌9	27°34	26°24	20°48	25° 6	22°57	0°12	8°42	23° 9	7°R22	6° 6	2°18	22°22	F 21
S 22	2 3 21	29° 3'21	15°59	29°13	27°38	21°11	25°19	23° 3	0°13	8°43	23° 8	7°22	6° 3	2°25	22°24	S 22
S 23	2 7 18	0♎3'18	27°53	0♎52	28°52	21°34	25°32	23°10	0°14	8°44	23° 8	7°20	6° 0	2°31	22°25	S 23
M24	2 11 14	1° 3'17	9♎54	2°30	0♌6	21°57	25°45	23°17	0°14	8°45	23° 7	7°18	5°57	2°38	22°27	M24
T 25	2 15 11	2° 3'18	22° 4	4° 8	1°19	22°19	25°58	23°24	0°15	8°46	23° 6	7°14	5°53	2°44	22°29	T 25
W26	2 19 7	3° 3'20	4♌25	5°45	2°33	22°41	26°11	23°30	0°16	8°47	23° 6	7°10	5°50	2°51	22°31	W26
T 27	2 23 4	4° 3'25	16°56	7°22	3°47	23° 3	26°24	23°37	0°17	8°49	23° 5	7° 5	5°47	2°58	22°33	T 27
F 28	2 27 1	5° 3'31	29°41	8°58	5° 1	23°24	26°37	23°44	0°18	8°50	23° 4	7° 1	5°44	3° 4	22°35	F 28
S 29	2 30 57	6° 3'39	12♈41	10°34	6°14	23°45	26°50	23°51	0°19	8°51	23° 3	6°58	5°41	3°11	22°37	S 29
S 30	2 34 54	7° 3'49	25°57	12° 9	7°28	24° 5	27° 3	23°58	0°20	8°52	23° 3	6°56	5°38	3°18	22°39	S 30
M31	2 38 50	8♎4'00	9≈31	13♎44	8♌42	24♏24	27♌16	24♎5	0≈21	8♏54	23♎2	6°D55	5♌34	3≈24	22♈42	M31

Day	☉	☽		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	decl	decl	decl	lat	decl	decl	decl	decl	lat
S 1	3s16	18s10	5n17	4n22	1n55	11s53	0n14	23n30	0n33	7s 7	1n 5	16s 8	1n56	20s44	0s36	22s22	0n50	16n12	7s 7	2s55	2s51	0s37	14s39	7n 6									
S 2	3 39	17 18	5 14	3 44	1 56	12 21	0 12	23 29	0 34	7 12	1 5	16 9	1 56	20 45	0 36	22 22	0 50	16 12	7 7	2 55	2 50	0 39	14 40	7 6									
M 3	4 2	15 26	4 54	3 4	1 56	12 49	0 9	23 28	0 36	7 17	1 5	16 11	1 56	20 45	0 36	22 22	0 50	16 12	7 7	2 55	2 48	0 41	14 40	7 5									
T 4	4 26	12 36	4 16	2 24	1 56	13 16	0 6	23 26	0 37	7 22	1 5	16 13	1 56	20 45	0 36	22 22	0 50	16 12	7 7	2 55	2 47	0 43	14 41	7 5									
W 5	4 49	8 55	3 20	1 42	1 55	13 43	0 4	23 25	0 39	7 27	1 4	16 15	1 56	20 45	0 36	22 22	0 50	16 12	7 7	2 55	2 46	0 44	14 41	7 4									
T 6	5 12	4 36	2 10	0 59	1 53	14 10	0 1	23 23	0 40	7 32	1 4	16 16	1 55	20 45	0 36	22 22	0 50	16 12	7 8	2 56	2 45	0 46	14 42	7 4									
F 7	5 35	0n 6	0 50	0 15	1 51	14 36	0s 2	23 22	0 42	7 36	1 4	16 18	1 55	20 45	0 36	22 22	0 50	16 11	7 8	2 56	2 43	0 48	14 42	7 3									
S 8	5 58	4 49	0s34	0s29	1 48	15 2	0 5	23 20	0 44	7 41	1 4	16 20	1 55	20 45	0 36	22 22	0 50	16 11	7 8	2 56	2 42	0 50	14 42	7 3									
S 9	6 21	9 12	1 56	1 13	1 44	15 28	0 7	23 19	0 45	7 46	1 4	16 21	1 55	20 45	0 36	22 22	0 50	16 11	7 8	2 56	2 41	0 52	14 43	7 2									
M10	6 44	12 57	3 8	1 58	1 41	15 53	0 10	23 17	0 47	7 51	1 4	16 23	1 55	20 45	0 36	22 22	0 50	16 11	7 8	2 55	2 40	0 54	14 43	7 2									
T 11	7 7	15 46	4 6	2 43	1 36	16 18	0 13	23 15	0 48	7 56	1 4	16 25	1 55	20 45	0 36	22 22	0 50	16 11	7 8	2 55	2 38	0 55	14 44	7 1									
W12	7 29	17 33	4 48	3 28	1 32	16 42	0 16	23 14	0 50	8 1	1 4	16 27	1 55	20 45	0 36	22 22	0 50	16 11	7 8	2 54	2 37	0 57	14 44	7 0									
T 13	7 52	18 14	5 11	4 13	1 27	17 7	0 18	23 12	0 52	8 6	1 4	16 28	1 54	20 45	0 36	22 22	0 50	16 11	7 8	2 54	2 36	0 59	14 44	7 0									
F 14	8 14	17 53	5 17	4 57	1 21	17 30	0 21	23 10	0 53	8 11	1 4	16 30	1 54	20 44	0 36	22 22	0 50	16 11	7 8	2 53	2 34	1 1	14 45	6 59									
S 15	8 37	16 37	5 7	5 42	1 16	17 53	0 24	23 8	0 55	8 15	1 4	16 32	1 54	20 44	0 36	22 22	0 50	16 10	7 8	2 53	2 33	1 3	14 45	6 59									
S 16	8 59	14 35	4 42	6 26	1 10	18 16	0 27	23 6	0 57	8 20	1 4	16 34	1 54	20 44	0 36	22 22	0 50	16 10	7 9	2 53	2 32	1 5	14 45	6 58									
M17	9 21	11 57	4 5	7 10	1 4	18 38	0 30	23 5	0 59	8 25	1 4	16 36	1 54	20 44	0 36	22 22	0 50	16 10	7 9	2 54	2 31	1 6	14 46	6 58									
T 18	9 43	8 50	3 18	7 53	0 58	19 0	0 33	23 3	1 0	8 30	1 4	16 37	1 54	20 44	0 36	22 22	0 50	16 10	7 9	2 54	2 29	1 8	14 46	6 57									
W19	10 5	5 24	2 23	8 36	0 52	19 22	0 35	23 1	1 2	8 35	1 4	16 39	1 54	20 44	0 36	22 22	0 50	16 10	7 9	2 55	2 28	1 10	14 46	6 57									
T 20	10 27	1 46	1 22	9 19	0 46	19 42	0 38	22 59	1 4	8 39	1 4	16 41	1 54	20 44	0 36	22 22	0 50	16 10	7 9	2 55	2 27	1 12	14 47	6 56									
F 21	10 48	1s56	0 18	10 1	0 39	20 3	0 41	22 57	1 6	8 44	1 4	16 43	1 53	20 44	0 36	22 22	0 50	16 10	7 9	2 56	2 26	1 14	14 47	6 56									
S 22	11 9	5 34	0n47	10 42	0 33	20 22	0 44	22 55	1 8	8 49	1 4	16 44	1 53	20 44	0 36	22 22	0 49	16 10	7 9	2 56	2 24	1 16	14 47	6 55									
S 23	11 31	9 1	1 51	11 23	0 26	20 42	0 46	22 54	1 10	8 54	1 4	16 46	1 53	20 43	0 36	22 22	0 49	16 10	7 9	2 55	2 23	1 17	14 47	6 55									
M24	11 52	12 7	2 50	12 4	0 19	21 0	0 49	22 52	1 11	8 59	1 4	16 48	1 53	20 43	0 36	22 22	0 49	16 9	7 9	2 54	2 22	1 19	14 48	6 54									
T 25	12 12	14 45	3 42	12 43	0 13	21 18	0 52	22 50	1 13	9 3	1 4	16 50	1 53	20 43	0 36	22 22	0 49	16 9	7 9	2 53	2 21	1 21	14 48	6 54									
W26	12 33	16 44	4 24	13 22	0 6	21 36	0 55	22 48	1 15	9 8	1 4	16 52	1 53	20 43	0 36	22 22	0 49	16 9	7 9	2 51	2 19	1 23	14 48	6 53									
T 27	12 54	17 57	4 55	14 0	0s 1	21 53	0 57	22 47	1 17	9 13	1 4	16 53	1 53	20 43	0 36	22 22	0 49	16 9	7 9	2 49	2 18	1 25	14 48	6 53									
F 28	13 14	18 18	5 11	14 38	0 7	22 9	1 0	22 45	1 19	9 18	1 4	16 55	1 53	20 42	0 36	22 22	0 49	16 9	7 10	2 47	2 17	1 27	14 48	6 52									
S 29	13 34	17 42	5 12	15 14	0 14	22 25	1 3	22 43	1 21	9 22	1 4	16 57	1 53	20 42	0 36	22 22	0 49	16 9	7 10	2 46	2 16	1 28	14 48	6 52									
S 30	13 54	16 8	4 57	15 50	0 21	22 40	1 5	22 42	1 23	9 27	1 4	16 59	1 53	20 42	0 36	22 22	0 49	16 9	7 10	2 45	2 14	1 30	14 49	6 51									
M31	14s13	13s39	4n24	16s25	0s27	22s54	1s 8	22n40	1n25	9s32	1n 4	17s 0	1n52	20s42	0s36	22s22	0n49	16n 9	7s10	2s45	2s13	1s32	14s49	6n51									

ASTRODIENST EPHEMERIS for the year 1661
geocentric

NOVEMBER 1661 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 42 47	9♉ 4'12	23♏23	15♉19	9♏56	24♏44	27♏29	24♉12	0♏22	8♏55	23°R 1	6♏56	5♏31	3♏31	22♏44	T 1
W 2	2 46 43	10° 4'26	7♏36	16°53	11° 9	25° 3	27°42	24°19	0°23	8°56	23II 0	6°57	5°28	3°38	22°46	W 2
T 3	2 50 40	11° 4'41	22° 6	18°27	12°23	25°21	27°55	24°26	0°24	8°58	22°59	6°59	5°25	3°44	22°49	T 3
F 4	2 54 36	12° 4'58	6♏50	20° 0	13°37	25°39	28° 8	24°33	0°26	8°59	22°59	7°R 0	5°22	3°51	22°51	F 4
S 5	2 58 33	13° 5'16	21°44	21°33	14°50	25°56	28°21	24°40	0°27	9° 1	22°58	6°59	5°19	3°58	22°54	S 5
S 6	3 2 30	14° 5'36	6♏40	23° 6	16° 4	26°13	28°34	24°47	0°28	9° 2	22°57	6°56	5°15	4° 4	22°57	S 6
M 7	3 6 26	15° 5'58	21°30	24°39	17°17	26°29	28°47	24°54	0°30	9° 4	22°56	6°52	5°12	4°11	22°59	M 7
T 8	3 10 23	16° 6'22	6II 6	26°11	18°31	26°45	29° 0	25° 1	0°31	9° 5	22°55	6°46	5° 9	4°18	23° 2	T 8
W 9	3 14 19	17° 6'47	20°20	27°43	19°44	27° 0	29°12	25° 8	0°33	9° 7	22°54	6°39	5° 6	4°24	23° 5	W 9
T 10	3 18 16	18° 7'14	4♏9	29°14	20°58	27°15	29°25	25°15	0°34	9° 8	22°53	6°33	5° 3	4°31	23° 8	T 10
F 11	3 22 12	19° 7'43	17°30	0♏46	22°11	27°29	29°38	25°22	0°36	9°10	22°52	6°27	4°59	4°37	23°11	F 11
S 12	3 26 9	20° 8'14	0♏26	2°17	23°25	27°42	29°51	25°29	0°37	9°11	22°51	6°23	4°56	4°44	23°14	S 12
S 13	3 30 5	21° 8'46	12°58	3°47	24°38	27°55	0♉ 3	25°36	0°39	9°13	22°50	6°21	4°53	4°51	23°17	S 13
M14	3 34 2	22° 9'20	25°10	5°18	25°52	28° 7	0°16	25°43	0°41	9°15	22°49	6°D21	4°50	4°57	23°20	M14
T 15	3 37 59	23° 9'56	7II 9	6°48	27° 5	28°19	0°29	25°50	0°43	9°16	22°48	6°22	4°47	5° 4	23°24	T 15
W16	3 41 55	24°10'34	18°59	8°18	28°18	28°30	0°41	25°57	0°44	9°18	22°47	6°23	4°44	5°11	23°27	W16
T 17	3 45 52	25°11'14	0♏46	9°47	29°32	28°41	0°54	26° 5	0°46	9°20	22°46	6°R24	4°40	5°17	23°30	T 17
F 18	3 49 48	26°11'55	12°33	11°16	0♏45	28°50	1° 6	26°12	0°48	9°22	22°45	6°24	4°37	5°24	23°34	F 18
S 19	3 53 45	27°12'37	24°26	12°45	1°58	28°59	1°19	26°19	0°50	9°23	22°44	6°22	4°34	5°31	23°37	S 19
S 20	3 57 41	28°13'22	6II28	14°13	3°12	29° 8	1°31	26°26	0°52	9°25	22°43	6°18	4°31	5°37	23°40	S 20
M21	4 1 38	29°14'07	18°41	15°41	4°25	29°15	1°43	26°33	0°54	9°27	22°42	6°11	4°28	5°44	23°44	M21
T 22	4 5 34	0♏14'54	1♏ 6	17° 8	5°38	29°22	1°56	26°40	0°56	9°29	22°41	6° 2	4°24	5°51	23°48	T 22
W23	4 9 31	1°15'43	13°45	18°35	6°51	29°29	2° 8	26°47	0°58	9°31	22°40	5°52	4°21	5°57	23°51	W23
T 24	4 13 28	2°16'32	26°37	20° 1	8° 4	29°34	2°20	26°54	1° 1	9°33	22°39	5°41	4°18	6° 4	23°55	T 24
F 25	4 17 24	3°17'23	9♏41	21°26	9°18	29°39	2°32	27° 1	1° 3	9°35	22°38	5°31	4°15	6°10	23°59	F 25
S 26	4 21 21	4°18'15	22°57	22°50	10°31	29°43	2°44	27° 8	1° 5	9°36	22°37	5°23	4°12	6°17	24° 3	S 26
S 27	4 25 17	5°19'08	6♏24	24°13	11°44	29°46	2°56	27°16	1° 7	9°38	22°36	5°17	4° 9	6°24	24° 6	S 27
M28	4 29 14	6°20'01	20° 2	25°34	12°57	29°49	3° 8	27°23	1°10	9°40	22°34	5°13	4° 5	6°30	24°10	M28
T 29	4 33 10	7°20'55	3♏51	26°54	14°10	29°50	3°20	27°30	1°12	9°42	22°33	5°D12	4° 2	6°37	24°14	T 29
W30	4 37 7	8♏21'50	17♏51	28♏13	15♏23	29♏51	3♉32	27♉37	1♏15	9♏44	22II32	5♏12	3♏59	6♏44	24♏18	W30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14s33	10s20	3n36	17s 0	0s34	23s 8	1s10	22n39	1n27	9s36	1n 4	17s 2	1n52	20s41	0s36	22s22	0n49	16n 9	7s10	2s45	2s12	1s34	14s49	6n50	
W 2	14 52	6 21	2 34	17 33	0 40	23 21	1 13	22 38	1 29	9 41	1 4	17 4	1 52	20 41	0 36	22 22	0 49	16 8	7 10	2 46	2 11	1 36	14 49	6 50	
T 3	15 11	1 54	1 21	18 6	0 47	23 34	1 15	22 36	1 32	9 45	1 4	17 6	1 52	20 41	0 36	22 22	0 49	16 8	7 10	2 47	2 9	1 38	14 49	6 49	
F 4	15 29	2n44	0 1	18 38	0 53	23 46	1 18	22 35	1 34	9 50	1 4	17 8	1 52	20 40	0 36	22 22	0 49	16 8	7 10	2 47	2 8	1 39	14 49	6 49	
S 5	15 48	7 15	1s20	19 8	0 59	23 57	1 20	22 34	1 36	9 55	1 4	17 9	1 52	20 40	0 36	22 22	0 49	16 8	7 10	2 46	2 7	1 41	14 49	6 48	
S 6	16 6	11 20	2 35	19 38	1 6	24 7	1 23	22 33	1 38	9 59	1 4	17 11	1 52	20 40	0 36	22 21	0 49	16 8	7 10	2 45	2 5	1 43	14 49	6 48	
M 7	16 24	14 39	3 39	20 7	1 12	24 17	1 25	22 32	1 40	10 4	1 4	17 13	1 52	20 40	0 36	22 21	0 49	16 8	7 10	2 44	2 4	1 45	14 49	6 47	
T 8	16 41	16 58	4 27	20 35	1 17	24 26	1 27	22 31	1 43	10 8	1 4	17 15	1 52	20 39	0 36	22 21	0 49	16 8	7 10	2 41	2 3	1 47	14 49	6 47	
W 9	16 58	18 11	4 58	21 2	1 23	24 34	1 29	22 30	1 45	10 13	1 4	17 16	1 52	20 39	0 36	22 21	0 49	16 8	7 10	2 39	2 2	1 49	14 49	6 47	
T 10	17 15	18 15	5 10	21 28	1 29	24 42	1 32	22 30	1 47	10 17	1 4	17 18	1 52	20 38	0 35	22 21	0 49	16 8	7 10	2 36	2 0	1 50	14 49	6 46	
F 11	17 32	17 18	5 5	21 53	1 34	24 49	1 34	22 29	1 49	10 22	1 4	17 20	1 52	20 38	0 35	22 21	0 49	16 8	7 10	2 34	1 59	1 52	14 49	6 46	
S 12	17 49	15 28	4 44	22 17	1 39	24 55	1 36	22 29	1 52	10 26	1 4	17 22	1 52	20 38	0 35	22 21	0 49	16 7	7 10	2 32	1 58	1 54	14 49	6 45	
S 13	18 5	12 58	4 9	22 39	1 44	25 0	1 38	22 29	1 54	10 31	1 4	17 23	1 52	20 37	0 35	22 21	0 49	16 7	7 10	2 32	1 57	1 56	14 49	6 45	
M14	18 20	9 56	3 25	23 1	1 49	25 5	1 40	22 28	1 57	10 35	1 4	17 25	1 51	20 37	0 35	22 21	0 49	16 7	7 11	2 31	1 55	1 58	14 49	6 44	
T 15	18 36	6 33	2 32	23 21	1 54	25 9	1 42	22 28	1 59	10 39	1 4	17 27	1 51	20 37	0 35	22 21	0 49	16 7	7 11	2 32	1 54	2 0	14 49	6 44	
W16	18 51	2 56	1 33	23 40	1 58	25 12	1 44	22 29	2 1	10 44	1 4	17 28	1 51	20 36	0 35	22 21	0 49	16 7	7 11	2 32	1 53	2 1	14 49	6 44	
T 17	19 6	0s46	0 31	23 58	2 2	25 14	1 45	22 29	2 4	10 48	1 4	17 30	1 51	20 36	0 35	22 21	0 49	16 7	7 11	2 33	1 52	2 3	14 48	6 43	
F 18	19 20	4 28	0n33	24 15	2 6	25 16	1 47	22 29	2 6	10 52	1 4	17 32	1 51	20 35	0 35	22 20	0 49	16 7	7 11	2 33	1 50	2 5	14 48	6 43	
S 19	19 34	8 0	1 36	24 30	2 10	25 17	1 49	22 30	2 9	10 57	1 4	17 33	1 51	20 35	0 35	22 20	0 49	16 7	7 11	2 32	1 49	2 7	14 48	6 42	
S 20	19 48	11 16	2 35	24 45	2 13	25 17	1 50	22 31	2 11	11 1	1 4	17 35	1 51	20 34	0 35	22 20	0 49	16 7	7 11	2 30	1 48	2 9	14 48	6 42	
M21	20 1	14 5	3 27	24 57	2 16	25 16	1 52	22 31	2 14	11 5	1 4	17 37	1 51	20 34	0 35	22 20	0 49	16 7	7 11	2 28	1 47	2 11	14 48	6 42	
T 22	20 14	16 19	4 11	25 9	2 18	25 15	1 53	22 33	2 17	11 9	1 4	17 39	1 51	20 33	0 35	22 20	0 49	16 7	7 11	2 24	1 45	2 12	14 48	6 41	
W23	20 27	17 49	4 43	25 19	2 20	25 13	1 55	22 34	2 19	11 14	1 5	17 40	1 51	20 33	0 35	22 20	0 48	16 7	7 11	2 20	1 44	2 14	14 47	6 41	
T 24	20 39	18 25	5 1	25 28	2 22	25 10	1 56	22 35	2 22	11 18	1 5	17 42	1 51	20 32	0 35	22 20	0 48	16 6	7 11	2 16	1 43	2 16	14 47	6 40	
F 25	20 51	18 4	5 4	25 35	2 23	25 6	1 57	22 37	2 24	11 22	1 5	17 43	1 51	20 32	0 35	22 20	0 48	16 6	7 11	2 12	1 42	2 18	14 47	6 40	
S 26	21 2	16 45	4 51	25 41	2 24	25 2	1 59	22 38	2 27	11 26	1 5	17 45	1 51	20 31	0 35	22 20	0 48	16 6	7 11	2 8	1 40	2 20	14 47	6 40	
S 27	21 14	14 29	4 22	25 45	2 24	24 57	2 0	22 40	2 30	11 30	1 5	17 47	1 51	20 31	0 35	22 20	0 48	16 6	7 11	2 6	1 39	2 21	14 46	6 39	
M28	21 24	11 24	3 37	25 48	2 24	24 51	2 1	22 42	2 32	11 34	1 5	17 48	1 51	20 30	0 35	22 19	0 48	16 6	7 11	2 5	1 38	2 23	14 46	6 39	
T 29	21 34	7 38	2 39	25 50	2 23	24 44	2 2	22 45	2 35	11 38	1 5	17 50	1 51	20 30	0 35	22 19	0 48	16 6	7 11	2 4	1 36	2 25	14 46	6 39	
W30	21s44	3s25	1n31	25s50	2s22	24s37	2s 2	22n47	2n38	11s42	1n 5	17s52	1n51	20s29	0s35	22s19	0n48	16n 6	7s11	2s 4	1s35	2s27	14s45	6n38	

ASTRODIENST EPHEMERIS for the year 1661
geocentric

DECEMBER 1661 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	4 41 3	9♌22'46	2♊2	29♊29	16♋35	29♌51	3♍44	27♎44	1♏17	9♐46	22♑31	5♒12	3♓56	6♈50	24♉22	T 1
F 2	4 45 0	10°23'42	16°23	0♋43	17°48	29♌51	3°56	27°51	1°19	9°48	22♑30	5♒12	3°53	6°57	24°26	F 2
S 3	4 48 57	11°24'39	0♋51	1°55	19° 1	29°49	4° 8	27°58	1°22	9°50	22°29	5°10	3°50	7° 4	24°30	S 3
S 4	4 52 53	12°25'37	15°22	3° 3	20°14	29°47	4°19	28° 5	1°25	9°53	22°27	5° 4	3°46	7°10	24°35	S 4
M 5	4 56 50	13°26'36	29°50	4° 8	21°27	29°44	4°31	28°12	1°27	9°55	22°26	4°56	3°43	7°17	24°39	M 5
T 6	5 0 46	14°27'35	14♊10	5° 9	22°39	29°40	4°42	28°19	1°30	9°57	22°25	4°46	3°40	7°24	24°43	T 6
W 7	5 4 43	15°28'36	28°14	6° 5	23°52	29°35	4°54	28°26	1°32	9°59	22°24	4°34	3°37	7°30	24°47	W 7
T 8	5 8 39	16°29'37	11♋58	6°55	25° 4	29°30	5° 5	28°32	1°35	10° 1	22°23	4°22	3°34	7°37	24°52	T 8
F 9	5 12 36	17°30'39	25°19	7°40	26°17	29°23	5°16	28°39	1°38	10° 3	22°22	4°12	3°30	7°44	24°56	F 9
S 10	5 16 32	18°31'42	8♌16	8°17	27°29	29°16	5°28	28°46	1°41	10° 5	22°20	4° 3	3°27	7°50	25° 0	S 10
S 11	5 20 29	19°32'46	20°50	8°47	28°41	29° 8	5°39	28°53	1°43	10° 7	22°19	3°57	3°24	7°57	25° 5	S 11
M12	5 24 26	20°33'50	3♎5	9° 8	29°54	28°59	5°50	29° 0	1°46	10° 9	22°18	3°53	3°21	8° 3	25° 9	M12
T 13	5 28 22	21°34'56	15° 6	9°19	1♏6	28°49	6° 1	29° 7	1°49	10°12	22°17	3°52	3°18	8°10	25°14	T 13
W14	5 32 19	22°36'02	26°57	9♒20	2°18	28°38	6°12	29°13	1°52	10°14	22°16	3°52	3°15	8°17	25°18	W14
T 15	5 36 15	23°37'09	8♌44	9°10	3°30	28°27	6°23	29°20	1°55	10°16	22°15	3°52	3°11	8°23	25°23	T 15
F 16	5 40 12	24°38'17	20°33	8°48	4°42	28°15	6°33	29°27	1°58	10°18	22°13	3°51	3° 8	8°30	25°28	F 16
S 17	5 44 8	25°39'26	2♎28	8°15	5°54	28° 1	6°44	29°33	2° 1	10°20	22°12	3°48	3° 5	8°37	25°32	S 17
S 18	5 48 5	26°40'35	14°36	7°30	7° 6	27°48	6°55	29°40	2° 4	10°23	22°11	3°42	3° 2	8°43	25°37	S 18
M19	5 52 1	27°41'45	26°58	6°34	8°18	27°33	7° 5	29°47	2° 7	10°25	22°10	3°33	2°59	8°50	25°42	M19
T 20	5 55 58	28°42'55	9♊37	5°29	9°30	27°17	7°16	29°53	2°10	10°27	22° 9	3°22	2°56	8°57	25°46	T 20
W21	5 59 55	29°44'06	22°34	4°15	10°41	27° 1	7°26	29°59	2°13	10°29	22° 7	3° 9	2°52	9° 3	25°51	W21
T 22	6 3 51	0♋45'17	5♋48	2°57	11°53	26°44	7°36	0♊6	2°16	10°32	22° 6	2°55	2°49	9°10	25°56	T 22
F 23	6 7 48	1°46'29	19°17	1°35	13° 4	26°27	7°46	0°13	2°19	10°34	22° 5	2°42	2°46	9°17	26° 1	F 23
S 24	6 11 44	2°47'40	2♏58	0°13	14°16	26° 8	7°56	0°19	2°22	10°36	22° 4	2°30	2°43	9°23	26° 5	S 24
S 25	6 15 41	3°48'52	16°48	28♊54	15°27	25°49	8° 6	0°25	2°26	10°38	22° 3	2°22	2°40	9°30	26°10	S 25
M26	6 19 37	4°50'03	0♊44	27°40	16°38	25°30	8°16	0°32	2°29	10°41	22° 2	2°17	2°36	9°36	26°15	M26
T 27	6 23 34	5°51'14	14°43	26°32	17°49	25°10	8°26	0°38	2°32	10°43	22° 0	2°14	2°33	9°43	26°20	T 27
W28	6 27 31	6°52'25	28°46	25°33	19° 0	24°49	8°35	0°44	2°35	10°45	21°59	2°13	2°30	9°50	26°25	W28
T 29	6 31 27	7°53'36	12♊50	24°43	20°11	24°28	8°45	0°50	2°38	10°47	21°58	2°13	2°27	9°56	26°30	T 29
F 30	6 35 24	8°54'46	26°55	24° 4	21°22	24° 6	8°54	0°56	2°42	10°50	21°57	2°13	2°24	10° 3	26°35	F 30
S 31	6 39 20	9♋55'56	11♋1	23♊34	22♋33	23♋44	9♍3	1♊2	2♏45	10♋52	21♊56	2♌10	2♌21	10♌10	26♋40	S 31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	21s54	1n 4	0n17	25s48	2s20	24s29	2s 3	22n50	2n41	11s46	1n 5	17s53	1n51	20s29
F 2	22 3	5 32	0s59	25 45	2 17	24 20	2 4	22 53	2 43	11 50	1 5	17 55	1 51	20 28
S 3	22 11	9 43	2 12	25 41	2 13	24 11	2 4	22 56	2 46	11 54	1 5	17 56	1 51	20 28
S 4	22 19	13 20	3 17	25 35	2 9	24 1	2 5	22 59	2 49	11 58	1 5	17 58	1 51	20 27
M 5	22 27	16 7	4 8	25 28	2 3	23 50	2 5	23 2	2 52	12 1	1 5	17 59	1 51	20 26
T 6	22 34	17 51	4 43	25 19	1 57	23 38	2 6	23 6	2 55	12 5	1 5	18 1	1 51	20 26
W 7	22 41	18 28	5 0	25 10	1 49	23 26	2 6	23 10	2 57	12 9	1 5	18 2	1 51	20 25
T 8	22 48	17 58	5 0	24 59	1 41	23 13	2 6	23 14	3 0	12 13	1 5	18 4	1 51	20 25
F 9	22 54	16 29	4 42	24 46	1 31	23 0	2 6	23 18	3 3	12 16	1 6	18 5	1 51	20 24
S 10	22 59	14 12	4 11	24 33	1 20	22 46	2 6	23 22	3 6	12 20	1 6	18 7	1 51	20 23
S 11	23 4	11 18	3 28	24 19	1 8	22 31	2 6	23 26	3 8	12 24	1 6	18 8	1 51	20 23
M12	23 9	7 58	2 36	24 4	0 54	22 15	2 6	23 31	3 11	12 27	1 6	18 10	1 51	20 22
T 13	23 13	4 23	1 38	23 49	0 40	21 59	2 5	23 36	3 14	12 31	1 6	18 11	1 51	20 21
W14	23 16	0 39	0 37	23 32	0 23	21 43	2 5	23 41	3 17	12 34	1 6	18 13	1 51	20 21
T 15	23 20	3s 4	0n26	23 16	0 6	21 25	2 4	23 46	3 19	12 38	1 6	18 14	1 51	20 20
F 16	23 22	6 41	1 27	22 59	0n12	21 7	2 4	23 51	3 22	12 41	1 6	18 15	1 51	20 19
S 17	23 25	10 4	2 25	22 42	0 31	20 49	2 3	23 56	3 25	12 45	1 6	18 17	1 51	20 19
S 18	23 26	13 5	3 18	22 25	0 51	20 30	2 2	24 2	3 27	12 48	1 6	18 18	1 51	20 18
M19	23 28	15 35	4 2	22 8	1 11	20 10	2 1	24 7	3 30	12 51	1 7	18 19	1 51	20 17
T 20	23 28	17 24	4 35	21 51	1 31	19 50	2 0	24 13	3 33	12 55	1 7	18 21	1 51	20 17
W21	23 29	18 22	4 55	21 35	1 50	19 30	1 59	24 18	3 35	12 58	1 7	18 22	1 51	20 16
T 22	23 29	18 22	5 0	21 19	2 8	19 9	1 58	24 24	3 38	13 1	1 7	18 23	1 51	20 15
F 23	23 28	17 20	4 48	21 5	2 24	18 47	1 57	24 30	3 40	13 4	1 7	18 25	1 51	20 14
S 24	23 27	15 19	4 19	20 51	2 38	18 25	1 55	24 36	3 42	13 7	1 7	18 26	1 52	20 14
S 25	23 26	12 24	3 35	20 39	2 50	18 2	1 54	24 42	3 45	13 10	1 7	18 27	1 52	20 13
M26	23 24	8 46	2 38	20 28	2 59	17 39	1 52	24 48	3 47	13 13	1 7	18 29	1 52	20 12
T 27	23 21	4 37	1 31	20 20	3 6	17 16	1 50	24 54	3 49	13 16	1 7	18 30	1 52	20 11
W28	23 18	0 13	0 18	20 14	3 11	16 52	1 48	24 59	3 51	13 19	1 8	18 31	1 52	20 11
T 29	23 15	4n13	0s56	20 10	3 13	16 28	1 46	25 5	3 53	13 22	1 8	18 32	1 52	20 10
F 30	23 11	8 25	2 7	20 8	3 13	16 3	1 44	25 11	3 55	13 25	1 8	18 33	1 52	20 9
S 31	23s 6	12n 9	3s10	20s 8	3n11	15s38	1s42	25n17	3n57	13s28	1n 8	18s35	1n52	20s 8

Julian Day Number = 2328062.5, Delta T = 35.08 sec
Ecliptic obliquity = 23°28'50, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°01'17, Lahiri = 19°08'17Greg. Calendar