



Astrodienst Ephemeris Tables for the year 1748

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 1748
geocentric

JANUARY 1748

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	6 40 1	10♈25'56	14♈37	17♈42	25♈10	1♉26	25♈7	6♎54	11♏32	22°R 9	28♎19	17°R19	19♏0	29♎40	29♎22	M 1
T 2	6 43 58	11° 4'07	29°45	18°23	26°25	2°13	25°21	6°58	11°35	22° 7	28°21	17°16	18°57	29°46	29°24	T 2
W 3	6 47 54	12° 5'19	14♏36	19°10	27°40	2°59	25°35	7° 2	11°38	22° 6	28°22	17°D15	18°54	29°53	29°25	W 3
T 4	6 51 51	13° 6'30	29° 1	20° 0	28°55	3°45	25°49	7° 7	11°42	22° 4	28°24	17°15	18°51	29°59	29°26	T 4
F 5	6 55 47	14° 7'41	13♉0	20°55	0♏11	4°31	26° 3	7°11	11°45	22° 2	28°26	17°17	18°48	0♏6	29°27	F 5
S 6	6 59 44	15° 8'52	26°30	21°53	1°26	5°17	26°17	7°15	11°48	22° 0	28°28	17°18	18°44	0°13	29°28	S 6
S 7	7 3 40	16°10'01	9♊35	22°55	2°41	6° 3	26°31	7°19	11°51	21°59	28°30	17°19	18°41	0°20	29°29	S 7
M 8	7 7 37	17°11'11	22°18	23°59	3°56	6°49	26°45	7°23	11°54	21°57	28°31	17°R19	18°38	0°26	29°30	M 8
T 9	7 11 33	18°12'19	4♋42	25° 6	5°11	7°35	26°59	7°27	11°58	21°55	28°33	17°18	18°35	0°33	29°31	T 9
W10	7 15 30	19°13'28	16°53	26°15	6°26	8°21	27°13	7°31	12° 1	21°54	28°35	17°15	18°32	0°40	29°31	W10
T 11	7 19 27	20°14'35	28°53	27°27	7°41	9° 7	27°27	7°34	12° 4	21°52	28°37	17°12	18°29	0°46	29°31	T 11
F 12	7 23 23	21°15'42	10♎47	28°40	8°57	9°53	27°41	7°38	12° 8	21°50	28°38	17° 7	18°25	0°53	29°32	F 12
S 13	7 27 20	22°16'48	22°38	29°55	10°12	10°38	27°55	7°41	12°11	21°49	28°40	17° 2	18°22	1° 0	29°32	S 13
S 14	7 31 16	23°17'54	4♌28	1♊11	11°27	11°24	28°10	7°45	12°14	21°47	28°42	16°58	18°19	1° 6	29°R32	S 14
M15	7 35 13	24°18'59	16°19	2°29	12°42	12°10	28°24	7°48	12°18	21°45	28°43	16°55	18°16	1°13	29°32	M15
T 16	7 39 9	25°20'03	28°15	3°49	13°57	12°56	28°38	7°51	12°21	21°44	28°45	16°52	18°13	1°20	29°32	T 16
W17	7 43 6	26°21'07	10♏15	5° 9	15°12	13°42	28°52	7°55	12°24	21°42	28°46	16°51	18° 9	1°27	29°31	W17
T 18	7 47 2	27°22'10	22°22	6°31	16°27	14°28	29° 6	7°58	12°28	21°40	28°48	16°D51	18° 6	1°33	29°31	T 18
F 19	7 50 59	28°23'13	4♎39	7°53	17°42	15°13	29°20	8° 1	12°31	21°38	28°49	16°52	18° 3	1°40	29°30	F 19
S 20	7 54 56	29°24'15	17° 6	9°17	18°57	15°59	29°35	8° 4	12°35	21°37	28°51	16°53	18° 0	1°47	29°30	S 20
S 21	7 58 52	0♏25'16	29°48	10°41	20°12	16°45	29°49	8° 6	12°38	21°35	28°52	16°55	17°57	1°53	29°29	S 21
M22	8 2 49	1°26'17	12♎46	12° 7	21°26	17°31	0♏3	8° 9	12°41	21°33	28°53	16°56	17°54	2° 0	29°28	M22
T 23	8 6 45	2°27'17	26° 3	13°33	22°41	18°16	0°17	8°12	12°45	21°32	28°55	16°57	17°50	2° 7	29°27	T 23
W24	8 10 42	3°28'17	9♎42	15° 0	23°56	19° 2	0°31	8°14	12°48	21°30	28°56	16°R57	17°47	2°13	29°26	W24
T 25	8 14 38	4°29'16	23°42	16°28	25°11	19°48	0°46	8°16	12°52	21°28	28°57	16°56	17°44	2°20	29°24	T 25
F 26	8 18 35	5°30'15	8♊4	17°57	26°26	20°33	1° 0	8°19	12°55	21°27	28°58	16°55	17°41	2°27	29°23	F 26
S 27	8 22 31	6°31'13	22°45	19°26	27°41	21°19	1°14	8°21	12°59	21°25	29° 0	16°54	17°38	2°33	29°21	S 27
S 28	8 26 28	7°32'10	7♈39	20°57	28°55	22° 4	1°28	8°23	13° 2	21°24	29° 1	16°52	17°35	2°40	29°20	S 28
M29	8 30 25	8°33'06	22°39	22°28	0♉10	22°50	1°42	8°25	13° 6	21°22	29° 2	16°51	17°31	2°47	29°18	M29
T 30	8 34 21	9°34'01	7♏37	23°59	1°25	23°35	1°56	8°27	13° 9	21°20	29° 3	16°51	17°28	2°53	29°16	T 30
W31	8 38 18	10°34'56	22°24	25♈32	2♉40	24♉21	2°10	8♎29	13°13	21°19	29♎4	16°D51	17°25	3° 0	29°14	W31

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
M 1	23s 6	25s27	2s48	20s28	2n27	22s26	1s20	11s54	0s59	21s31	0s23	11s36	2n22	17s58	0s39	21n 6	0s33	7s 9	12n58	15s40	15s 9	27n23	3s33	4s 8
T 2	23 1	21 46	1 34	20 40	2 19	22 14	1 21	11 37	0 59	21 29	0 23	11 38	2 22	17 57	0 39	21 7	0 33	7 9	12 58	15 41	15 10	27 22	3 33	4 9
W 3	22 55	16 43	0 14	20 52	2 10	22 0	1 22	11 19	0 58	21 26	0 23	11 39	2 22	17 56	0 39	21 7	0 33	7 9	12 58	15 41	15 11	27 22	3 34	4 9
T 4	22 50	10 50	1n 4	21 4	2 2	21 46	1 24	11 2	0 57	21 24	0 23	11 40	2 22	17 55	0 39	21 7	0 33	7 10	12 59	15 41	15 12	27 21	3 35	4 9
F 5	22 43	4 36	2 16	21 17	1 53	21 31	1 25	10 44	0 56	21 21	0 23	11 41	2 22	17 54	0 39	21 8	0 33	7 10	12 59	15 41	15 13	27 21	3 35	4 9
S 6	22 37	1n38	3 18	21 30	1 44	21 16	1 26	10 27	0 55	21 18	0 23	11 42	2 23	17 54	0 39	21 8	0 33	7 10	12 59	15 40	15 14	27 20	3 36	4 9
S 7	22 30	7 36	4 8	21 42	1 35	21 0	1 27	10 9	0 54	21 16	0 23	11 43	2 23	17 53	0 39	21 8	0 33	7 10	12 59	15 40	15 15	27 19	3 37	4 10
M 8	22 22	13 5	4 44	21 55	1 26	20 43	1 28	9 51	0 53	21 13	0 24	11 44	2 23	17 52	0 39	21 8	0 33	7 10	13 0	15 40	15 16	27 19	3 37	4 10
T 9	22 14	17 54	5 6	22 7	1 16	20 26	1 29	9 33	0 53	21 11	0 24	11 45	2 23	17 51	0 39	21 9	0 33	7 10	13 0	15 40	15 17	27 18	3 38	4 10
W10	22 6	21 54	5 13	22 18	1 7	20 8	1 29	9 15	0 52	21 8	0 24	11 46	2 23	17 50	0 39	21 9	0 33	7 10	13 0	15 41	15 18	27 18	3 38	4 10
T 11	21 57	24 55	5 7	22 29	0 58	19 49	1 30	8 57	0 51	21 5	0 24	11 47	2 24	17 49	0 39	21 9	0 33	7 10	13 0	15 42	15 19	27 17	3 38	4 10
F 12	21 47	26 50	4 47	22 39	0 49	19 30	1 31	8 39	0 50	21 3	0 24	11 48	2 24	17 48	0 39	21 9	0 33	7 10	13 1	15 44	15 20	27 16	3 38	4 10
S 13	21 38	27 31	4 15	22 48	0 41	19 11	1 31	8 21	0 49	21 0	0 24	11 49	2 24	17 47	0 39	21 10	0 33	7 10	13 1	15 45	15 21	27 16	3 39	4 11
S 14	21 28	26 56	3 32	22 56	0 32	18 51	1 32	8 2	0 48	20 57	0 24	11 50	2 24	17 46	0 39	21 10	0 33	7 11	13 1	15 46	15 22	27 15	3 39	4 11
M15	21 17	25 8	2 40	23 4	0 23	18 30	1 32	7 44	0 47	20 54	0 24	11 51	2 25	17 45	0 39	21 10	0 33	7 11	13 2	15 47	15 23	27 14	3 39	4 11
T 16	21 6	22 11	1 41	23 10	0 15	18 9	1 33	7 26	0 47	20 52	0 24	11 52	2 25	17 44	0 39	21 11	0 33	7 11	13 2	15 48	15 24	27 14	3 39	4 11
W17	20 55	18 17	0 36	23 16	0 7	17 47	1 33	7 7	0 46	20 49	0 24	11 53	2 25	17 43	0 39	21 11	0 33	7 11	13 2	15 48	15 25	27 13	3 39	4 11
T 18	20 43	13 36	0s30	23 20	0s 2	17 25	1 34	6 49	0 45	20 46	0 24	11 53	2 25	17 42	0 38	21 11	0 33	7 11	13 2	15 48	15 26	27 12	3 39	4 12
F 19	20 31	8 19	1 37	23 24	0 9	17 2	1 34	6 30	0 44	20 43	0 24	11 54	2 25	17 41	0 38	21 11	0 33	7 11	13 3	15 48	15 27	27 12	3 39	4 12
S 20	20 18	2 39	2 40	23 26	0 17	16 39	1 34	6 12	0 43	20 40	0 25	11 55	2 26	17 40	0 38	21 12	0 33	7 11	13 3	15 48	15 28	27 11	3 39	4 12
S 21	20 5	3s13	3 36	23 27	0 25	16 16	1 34	5 53	0 42	20 37	0 25	11 56	2 26	17 39	0 38	21 12	0 33	7 11	13 3	15 47	15 28	27 10	3 39	4 12
M22	19 52	9 4	4 22	23 27	0 32	15 52	1 34	5 35	0 41	20 34	0 25	11 56	2 26	17 38	0 38	21 12	0 33	7 11	13 4	15 47	15 29	27 9	3 38	4 12
T 23	19 38	14 40	4 56	23 26	0 39	15 27	1 34	5 16	0 41	20 31	0 25	11 57	2 26	17 37	0 38	21 13	0 33	7 11	13 4	15 47	15 30	27 9	3 38	4 12
W24	19 24	19 42	5 14	23 23	0 46	15 2	1 34	4 57	0 40	20 28	0 25	11 57	2 27	17 36	0 38	21 13	0 33	7 10	13 4	15 47	15 31	27 8	3 38	4 12
T 25	19 10	23 48	5 15	23 20	0 53	14 37	1 34	4 39	0 39	20 25	0 25	11 58	2 27	17 35	0 38	21 13	0 33	7 10	13 5	15 47	15 32	27 7	3 37	4 13
F 26	18 55	26 33	4 56	23 15	0 59	14 11	1 33	4 20	0 38	20 22	0 25	11 58	2 27	17 34	0 38	21 13	0 33	7 10	13 5	15 47	15 33	27 7	3 37	4 13
S 27	18 40	27 33	4 17	23 8	1 5	13 45	1 33	4 1	0 37	20 19	0 25	11 59	2 27	17 33	0 38	21 14	0 33	7 10	13 5	15 48	15 34	27 6	3 37	4 13
S 28	18 25	26 36	3 21	23 1	1 11	13 19	1 33	3 42	0 36	20 16	0 25	11 59	2 28	17 32	0 38	21 14	0 33	7 10	13 6	15 48	15 35	27 5	3 36	4 13
M29	18 9	23 43	2 10	22 52	1 17	12 52	1 32	3 24	0 35	20 13	0 25	12 0	2 28	17 32	0 38	21 14	0 33	7 10	13 6	15 48	15 36	27 4	3 35	4 13
T 30	17 53	19 13	0 51	22 42	1 22	12 25	1 32	3 5	0 35	20 10	0 26	12 0	2 28	17 31	0 38	21 14	0 33	7 10	13 6	15 49	15 37	27 3	3 35	4 13
W31	17s37	13s35	0n31	22s30	1s27	11s57	1s31	2s46	0s34	20s 7	0s26	12s 0	2n28	17s30	0s38	21n15	0s33	7s10	13n 7	15s49	15s38	27n 3	3s34	4s13

ASTRODIENST EPHEMERIS for the year 1748
geocentric

FEBRUARY 1748

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 42 14	11 ³⁵ 48	6 ⁵³	27 ³ 5	3 ⁵⁴	25 ⁵ 6	2 ²⁵	8 ³⁰	13 ¹⁶	21 ¹⁷	29 ⁵	16 ⁵¹	17 ²²	3 ⁷	29 ¹²	T 1
F 2	8 46 11	12 ³⁶ 40	20 ⁵⁹	28 ³⁹	5 ⁹	25 ⁵²	2 ³⁹	8 ³²	13 ²⁰	21 ¹⁶	29 ⁶	16 ⁵²	17 ¹⁹	3 ¹⁴	29 ¹⁰	F 2
S 3	8 50 7	13 ³⁷ 30	4 ³⁸	0 ¹⁴	6 ²⁴	26 ³⁷	2 ⁵³	8 ³³	13 ²³	21 ¹⁴	29 ⁷	16 ⁵²	17 ¹⁵	3 ²⁰	29 ⁸	S 3
S 4	8 54 4	14 ³⁸ 19	17 ⁵²	1 ⁴⁹	7 ³⁸	27 ²²	3 ⁷	8 ³⁵	13 ²⁷	21 ¹³	29 ⁸	16 ⁵²	17 ¹²	3 ²⁷	29 ⁵	S 4
M 5	8 58 1	15 ³⁹ 06	0 ⁴²	3 ²⁵	8 ⁵³	28 ⁸	3 ²¹	8 ³⁶	13 ³⁰	21 ¹¹	29 ⁹	16 ⁵²	17 ⁹	3 ³⁴	29 ³	M 5
T 6	9 1 57	16 ³⁹ 52	13 ¹¹	5 ²	10 ⁷	28 ⁵³	3 ³⁵	8 ³⁷	13 ³⁴	21 ¹⁰	29 ¹⁰	16 ⁵²	17 ⁶	3 ⁴⁰	29 ⁰	T 6
W 7	9 5 54	17 ⁴⁰ 36	25 ²³	6 ⁴⁰	11 ²²	29 ³⁸	3 ⁴⁹	8 ³⁸	13 ³⁷	21 ⁸	29 ¹¹	16 ⁵³	17 ³	3 ⁴⁷	28 ⁵⁸	W 7
T 8	9 9 50	18 ⁴¹ 18	7 ¹² 23	8 ¹⁹	12 ³⁶	0 ²³	4 ³	8 ³⁹	13 ⁴¹	21 ⁷	29 ¹²	16 ⁵³	17 ⁰	3 ⁵⁴	28 ⁵⁵	T 8
F 9	9 13 47	19 ⁴¹ 59	19 ¹⁶	9 ⁵⁸	13 ⁵¹	1 ⁹	4 ¹⁷	8 ⁴⁰	13 ⁴⁴	21 ⁵	29 ¹³	16 ⁵³	16 ⁵⁶	4 ⁰	28 ⁵²	F 9
S 10	9 17 43	20 ⁴² 38	1 ⁵	11 ³⁹	15 ⁵	1 ⁵⁴	4 ³¹	8 ⁴¹	13 ⁴⁷	21 ⁴	29 ¹³	16 ⁵³	16 ⁵³	4 ⁷	28 ⁴⁹	S 10
S 11	9 21 40	21 ⁴³ 16	12 ⁵⁵	13 ²⁰	16 ²⁰	2 ³⁹	4 ⁴⁵	8 ⁴¹	13 ⁵¹	21 ²	29 ¹⁴	16 ⁵⁴	16 ⁵⁰	4 ¹⁴	28 ⁴⁶	S 11
M 12	9 25 36	22 ⁴³ 52	24 ⁵⁰	15 ²	17 ³⁴	3 ²⁴	4 ⁵⁹	8 ⁴²	13 ⁵⁴	21 ¹	29 ¹⁵	16 ⁵⁴	16 ⁴⁷	4 ²⁰	28 ⁴³	M 12
T 13	9 29 33	23 ⁴⁴ 26	6 ¹² 51	16 ⁴⁴	18 ⁴⁸	4 ⁹	5 ¹²	8 ⁴²	13 ⁵⁸	20 ⁵⁹	29 ¹⁵	16 ⁵⁵	16 ⁴⁴	4 ²⁷	28 ³⁹	T 13
W 14	9 33 30	24 ⁴⁴ 59	19 ²	18 ²⁸	20 ²	4 ⁵⁴	5 ²⁶	8 ⁴³	14 ¹	20 ⁵⁸	29 ¹⁶	16 ⁵⁵	16 ⁴¹	4 ³⁴	28 ³⁶	W 14
T 15	9 37 26	25 ⁴⁵ 30	1 ¹² 24	20 ¹³	21 ¹⁷	5 ³⁹	5 ⁴⁰	8 ⁴³	14 ⁵	20 ⁵⁷	29 ¹⁷	16 ⁵⁵	16 ³⁷	4 ⁴⁰	28 ³³	T 15
F 16	9 41 23	26 ⁴⁶ 00	13 ⁵⁸	21 ⁵⁸	22 ³¹	6 ²⁴	5 ⁵⁴	8 ⁴³	14 ⁸	20 ⁵⁵	29 ¹⁷	16 ⁵⁴	16 ³⁴	4 ⁴⁷	28 ²⁹	F 16
S 17	9 45 19	27 ⁴⁶ 28	26 ⁴⁵	23 ⁴⁵	23 ⁴⁵	7 ⁹	6 ⁸	8 ⁴³	14 ¹²	20 ⁵⁴	29 ¹⁸	16 ⁵²	16 ³¹	4 ⁵⁴	28 ²⁶	S 17
S 18	9 49 16	28 ⁴⁶ 54	9 ¹² 46	25 ³²	24 ⁵⁹	7 ⁵³	6 ²¹	8 ⁴³	14 ¹⁵	20 ⁵³	29 ¹⁸	16 ⁵¹	16 ²⁸	5 ⁰	28 ²²	S 18
M 19	9 53 12	29 ⁴⁷ 19	23 ⁰	27 ²¹	26 ¹³	8 ³⁸	6 ³⁵	8 ⁴³	14 ¹⁸	20 ⁵²	29 ¹⁹	16 ⁴⁹	16 ²⁵	5 ⁷	28 ¹⁸	M 19
T 20	9 57 9	0 ⁴⁷ 43	6 ¹² 10	29 ¹⁰	27 ²⁷	9 ²³	6 ⁴⁸	8 ⁴³	14 ²²	20 ⁵⁰	29 ¹⁹	16 ⁴⁸	16 ²¹	5 ¹⁴	28 ¹⁴	T 20
W 21	10 1 5	1 ⁴⁸ 06	20 ¹⁰	1 ¹² 0	28 ⁴¹	10 ⁸	7 ²	8 ⁴²	14 ²⁵	20 ⁴⁹	29 ¹⁹	16 ⁴⁷	16 ¹⁸	5 ²⁰	28 ¹⁰	W 21
T 22	10 5 2	2 ⁴⁸ 27	4 ¹² 6	2 ⁵¹	29 ⁵⁵	10 ⁵²	7 ¹⁶	8 ⁴²	14 ²⁹	20 ⁴⁸	29 ²⁰	16 ⁴⁶	16 ¹⁵	5 ²⁷	28 ⁶	T 22
F 23	10 8 58	3 ⁴⁸ 47	18 ¹⁴	4 ⁴³	1 ¹² 9	11 ³⁷	7 ²⁹	8 ⁴¹	14 ³²	20 ⁴⁷	29 ²⁰	16 ⁴⁷	16 ¹²	5 ³⁴	28 ²	F 23
S 24	10 12 55	4 ⁴⁹ 05	2 ³³ 3	6 ³⁶	2 ²²	12 ²²	7 ⁴²	8 ⁴⁰	14 ³⁵	20 ⁴⁶	29 ²⁰	16 ⁴⁸	16 ⁹	5 ⁴⁰	27 ⁵⁸	S 24
S 25	10 16 52	5 ⁴⁹ 22	17 ²	8 ²⁹	3 ³⁶	13 ⁶	7 ⁵⁶	8 ⁴⁰	14 ³⁹	20 ⁴⁵	29 ²¹	16 ⁴⁹	16 ⁶	5 ⁴⁷	27 ⁵⁴	S 25
M 26	10 20 48	6 ⁴⁹ 37	1 ³⁴ 34	10 ²³	4 ⁵⁰	13 ⁵¹	8 ⁹	8 ³⁹	14 ⁴²	20 ⁴⁴	29 ²¹	16 ⁵⁰	16 ²	5 ⁵⁴	27 ⁵⁰	M 26
T 27	10 24 45	7 ⁴⁹ 51	16 ⁷	12 ¹⁸	6 ⁴	14 ³⁵	8 ²³	8 ³⁸	14 ⁴⁵	20 ⁴²	29 ²¹	16 ⁵¹	15 ⁵⁹	6 ¹	27 ⁴⁶	T 27
W 28	10 28 41	8 ⁵⁰ 02	0 ³⁴ 34	14 ¹⁴	7 ¹⁷	15 ²⁰	8 ³⁶	8 ³⁷	14 ⁴⁸	20 ⁴¹	29 ²¹	16 ⁵⁰	15 ⁵⁶	6 ⁷	27 ⁴¹	W 28
T 29	10 32 38	9 ⁵⁰ 12	14 ⁴⁴ 49	16 ¹² 9	8 ³¹	16 ¹² 4	8 ⁴⁹	8 ³⁵	14 ⁵²	20 ⁴⁰	29 ²¹	16 ⁴⁹	15 ⁵³	6 ¹⁴	27 ³⁷	T 29

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	17s20	7s19	1n49	22s17	1s32	11s29	1s30	2s27	0s33	20s 4	0s26	12s 1	2n29	17s29	0s38	21n15	0s33	7s10	13n 7	15s48	15s39	27n 2	3s33	4s13	
F 2	17 3	0 51	2 58	22 2	1 37	11 1	1 29	2 8	0 32	20 1	0 26	12 1	2 29	17 28	0 38	21 15	0 33	7 10	13 7	15 48	15 40	27 1	3 33	4 13	
S 3	16 46	5n27	3 55	21 47	1 41	10 33	1 29	1 49	0 31	19 58	0 26	12 1	2 29	17 27	0 39	21 16	0 33	7 9	13 8	15 48	15 41	27 0	3 32	4 14	
S 4	16 28	11 18	4 38	21 29	1 45	10 4	1 28	1 31	0 30	19 55	0 26	12 2	2 29	17 26	0 38	21 16	0 33	7 9	13 8	15 48	15 42	26 59	3 31	4 14	
M 5	16 10	16 30	5 5	21 11	1 49	9 35	1 27	1 12	0 30	19 52	0 26	12 2	2 30	17 25	0 39	21 16	0 33	7 9	13 8	15 48	15 43	26 59	3 30	4 14	
T 6	15 52	20 51	5 17	20 51	1 52	9 6	1 26	0 53	0 29	19 48	0 26	12 2	2 30	17 24	0 39	21 16	0 33	7 9	13 9	15 48	15 44	26 58	3 29	4 14	
W 7	15 33	24 13	5 14	20 29	1 55	8 37	1 25	0 34	0 28	19 45	0 26	12 2	2 30	17 23	0 39	21 17	0 33	7 9	13 9	15 48	15 45	26 57	3 28	4 14	
T 8	15 15	26 28	4 58	20 6	1 58	8 7	1 23	0 16	0 27	19 42	0 26	12 2	2 30	17 22	0 39	21 17	0 32	7 9	13 10	15 48	15 46	26 56	3 27	4 14	
F 9	14 56	27 30	4 28	19 42	2 0	7 37	1 22	0n 3	0 26	19 39	0 27	12 2	2 31	17 21	0 39	21 17	0 32	7 8	13 10	15 48	15 47	26 55	3 26	4 14	
S 10	14 37	27 16	3 48	19 16	2 2	7 7	1 21	0 22	0 25	19 36	0 27	12 2	2 31	17 20	0 39	21 17	0 32	7 8	13 10	15 48	15 48	26 54	3 25	4 14	
S 11	14 17	25 48	2 58	18 49	2 4	6 37	1 19	0 41	0 25	19 32	0 27	12 2	2 31	17 19	0 39	21 17	0 32	7 8	13 11	15 48	15 49	26 54	3 23	4 14	
M12	13 57	23 9	2 0	18 20	2 5	6 7	1 18	0 59	0 24	19 29	0 27	12 2	2 31	17 18	0 39	21 18	0 32	7 8	13 11	15 48	15 50	26 53	3 22	4 14	
T 13	13 38	19 29	0 56	17 50	2 5	5 36	1 16	1 18	0 23	19 26	0 27	12 2	2 31	17 17	0 39	21 18	0 32	7 7	13 11	15 47	15 51	26 52	3 21	4 14	
W14	13 17	14 57	0s12	17 18	2 6	5 6	1 15	1 37	0 22	19 23	0 27	12 2	2 32	17 16	0 39	21 18	0 32	7 7	13 12	15 47	15 52	26 51	3 19	4 14	
T 15	12 57	9 45	1 20	16 45	2 6	4 35	1 13	1 55	0 21	19 19	0 27	12 2	2 32	17 15	0 39	21 18	0 32	7 7	13 12	15 47	15 53	26 50	3 18	4 14	
F 16	12 37	4 6	2 24	16 11	2 5	4 4	1 11	2 14	0 21	19 16	0 27	12 1	2 32	17 14	0 39	21 19	0 32	7 7	13 13	15 48	15 54	26 49	3 17	4 14	
S 17	12 16	1s49	3 23	15 35	2 4	3 33	1 10	2 32	0 20	19 13	0 27	12 1	2 32	17 13	0 39	21 19	0 32	7 6	13 13	15 48	15 55	26 48	3 15	4 14	
S 18	11 55	7 45	4 13	14 57	2 3	3 2	1 8	2 51	0 19	19 9	0 28	12 1	2 33	17 12	0 39	21 19	0 32	7 6	13 13	15 49	15 55	26 47	3 14	4 14	
M19	11 34	13 26	4 49	14 18	2 1	2 31	1 6	3 9	0 18	19 6	0 28	12 1	2 33	17 11	0 39	21 19	0 32	7 6	13 14	15 49	15 56	26 46	3 12	4 14	
T 20	11 12	18 35	5 11	13 38	1 59	2 0	1 4	3 27	0 17	19 3	0 28	12 0	2 33	17 10	0 39	21 19	0 32	7 6	13 14	15 50	15 57	26 45	3 11	4 14	
W21	10 51	22 52	5 16	12 56	1 56	1 28	1 2	3 46	0 17	19 0	0 28	12 0	2 33	17 9	0 39	21 20	0 32	7 5	13 14	15 50	15 58	26 44	3 9	4 14	
T 22	10 29	25 56	5 2	12 13	1 52	0 57	1 0	4 4	0 16	18 56	0 28	12 0	2 34	17 8	0 39	21 20	0 32	7 5	13 15	15 50	15 59	26 44	3 7	4 14	
F 23	10 7	27 26	4 30	11 28	1 48	0 25	0 58	4 22	0 15	18 53	0 28	11 59	2 34	17 7	0 39	21 20	0 32	7 5	13 15	15 50	16 0	26 43	3 6	4 14	
S 24	9 45	27 8	3 41	10 43	1 44	0n 6	0 55	4 40	0 14	18 50	0 28	11 59	2 34	17 6	0 39	21 20	0 32	7 4	13 16	15 49	16 1	26 42	3 4	4 13	
S 25	9 23	24 59	2 37	9 55	1 39	0 37	0 53	4 58	0 14	18 46	0 28	11 58	2 34	17 5	0 39	21 20	0 32	7 4	13 16	15 49	16 2	26 41	3 2	4 13	
M26	9 1	21 12	1 23	9 7	1 33	1 9	0 51	5 16	0 13	18 43	0 29	11 58	2 35	17 4	0 39	21 21	0 32	7 4	13 16	15 49	16 3	26 40	3 0	4 13	
T 27	8 39	16 6	0 4	8 17	1 27	1 40	0 48	5 34	0 12	18 40	0 29	11 57	2 35	17 3	0 39	21 21	0 32	7 3	13 17	15 49	16 4	26 39	2 59	4 13	
W28	8 16	10 7	1n15	7 27	1 20	2 12	0 46	5 52	0 11	18 36	0 29	11 57	2 35	17 2	0 39	21 21	0 32	7 3	13 17	15 49	16 5	26 38	2 57	4 13	
T 29	7s54	3s43	2n28	6s35	1s12	2n43	0s43	6n10	0s10	18s33	0s29	11s56	2n35	17s 1	0s39	21n21	0s32	7s 3	13n17	15s49	16s 6	26n37	2s55	4s13	

ASTRODIENST EPHEMERIS for the year 1748
geocentric

MARCH 1748

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 36 34	10 ^h 50'21	28 ^h 48	18 ^h 5	9 ^h 44	16 ^h 48	9 ^h 2	8°R34	14 ^h 55	20°R39	29 ^h 21	16°R46	15 ^h 50	6 ^h 21	27°R32	F 1
S 2	10 40 31	11°50'27	12 ^h 26	20° 1	10°58	17°33	9°15	8 ^h 13	14°58	20 ^h 39	29°R21	16 ^h 42	15°47	6°27	27 ^h 28	S 2
S 3	10 44 27	12°50'31	25°42	21°57	12°11	18°17	9°28	8°31	15° 1	20°38	29°21	16°38	15°43	6°34	27°23	S 3
M 4	10 48 24	13°50'33	8 ^h 35	23°52	13°25	19° 1	9°41	8°29	15° 4	20°37	29°21	16°34	15°40	6°41	27°19	M 4
T 5	10 52 21	14°50'33	21° 8	25°46	14°38	19°45	9°54	8°28	15° 8	20°36	29°21	16°31	15°37	6°47	27°14	T 5
W 6	10 56 17	15°50'31	3 ^h 24	27°40	15°51	20°29	10° 7	8°26	15°11	20°35	29°21	16°28	15°34	6°54	27°10	W 6
T 7	11 0 14	16°50'27	15°26	29°32	17° 5	21°13	10°20	8°24	15°14	20°34	29°21	16°D28	15°31	7° 1	27° 5	T 7
F 8	11 4 10	17°50'20	27°19	1 ^h 22	18°18	21°57	10°33	8°22	15°17	20°33	29°21	16°28	15°27	7° 7	27° 0	F 8
S 9	11 8 7	18°50'11	9 ^h 8	3° 9	19°31	22°41	10°45	8°20	15°20	20°33	29°20	16°29	15°24	7°14	26°55	S 9
S 10	11 12 3	19°50'00	20°59	4°54	20°44	23°25	10°58	8°18	15°23	20°32	29°20	16°31	15°21	7°21	26°51	S 10
M 11	11 16 0	20°49'47	2 ^h 56	6°36	21°57	24° 9	11°10	8°16	15°26	20°31	29°20	16°33	15°18	7°27	26°46	M 11
T 12	11 19 56	21°49'32	15° 3	8°14	23°10	24°53	11°23	8°13	15°29	20°31	29°19	16°R34	15°15	7°34	26°41	T 12
W 13	11 23 53	22°49'14	27°23	9°47	24°23	25°37	11°35	8°11	15°32	20°30	29°19	16°33	15°12	7°41	26°36	W 13
T 14	11 27 50	23°48'54	10 ^h 0	11°16	25°35	26°21	11°48	8° 8	15°35	20°29	29°19	16°31	15° 8	7°47	26°32	T 14
F 15	11 31 46	24°48'32	22°53	12°40	26°48	27° 4	12° 0	8° 6	15°38	20°29	29°18	16°27	15° 5	7°54	26°27	F 15
S 16	11 35 43	25°48'08	6 ^h 3	13°58	28° 1	27°48	12°12	8° 3	15°41	20°28	29°18	16°21	15° 2	8° 1	26°22	S 16
S 17	11 39 39	26°47'42	19°29	15°10	29°13	28°32	12°24	8° 0	15°43	20°28	29°17	16°14	14°59	8° 7	26°17	S 17
M 18	11 43 36	27°47'15	3 ^h 8	16°16	0 ^h 26	29°15	12°36	7°57	15°46	20°27	29°17	16° 7	14°56	8°14	26°12	M 18
T 19	11 47 32	28°46'45	16°59	17°15	1°38	29°59	12°48	7°54	15°49	20°27	29°16	16° 1	14°52	8°21	26° 7	T 19
W 20	11 51 29	29°46'14	0 ^h 57	18° 7	2°51	0 ^h 42	13° 0	7°51	15°52	20°27	29°16	15°56	14°49	8°27	26° 3	W 20
T 21	11 55 25	0 ^h 45'41	15° 1	18°51	4° 3	1°26	13°12	7°48	15°55	20°26	29°15	15°53	14°46	8°34	25°58	T 21
F 22	11 59 22	1°45'06	29° 8	19°29	5°15	2° 9	13°24	7°45	15°57	20°26	29°14	15°D52	14°43	8°41	25°53	F 22
S 23	12 3 19	2°44'29	13 ^h 3	19°58	6°27	2°53	13°35	7°42	16° 0	20°26	29°14	15°52	14°40	8°47	25°48	S 23
S 24	12 7 15	3°43'51	27°26	20°20	7°39	3°36	13°47	7°39	16° 3	20°25	29°13	15°53	14°37	8°54	25°43	S 24
M 25	12 11 12	4°43'11	11 ^h 34	20°35	8°51	4°19	13°58	7°35	16° 5	20°25	29°12	15°R54	14°33	9° 1	25°39	M 25
T 26	12 15 8	5°42'29	25°39	20°R42	10° 3	5° 2	14°10	7°32	16° 8	20°25	29°11	15°54	14°30	9° 7	25°34	T 26
W 27	12 19 5	6°41'45	9 ^h 39	20°42	11°15	5°45	14°21	7°28	16°10	20°25	29°11	15°51	14°27	9°14	25°29	W 27
T 28	12 23 1	7°40'59	23°29	20°34	12°27	6°29	14°32	7°25	16°13	20°25	29°10	15°47	14°24	9°21	25°25	T 28
F 29	12 26 58	8°40'11	7 ^h 9	20°20	13°39	7°12	14°43	7°21	16°15	20°25	29° 9	15°40	14°21	9°27	25°20	F 29
S 30	12 30 54	9°39'21	20°32	19°59	14°50	7°55	14°54	7°17	16°18	20°24	29° 8	15°31	14°18	9°34	25°15	S 30
S 31	12 34 51	10 ^h 38'29	3 ^h 39	19 ^h 33	16 ^h 2	8 ^h 38	15 ^h 5	7 ^h 13	16 ^h 20	20°D24	29 ^h 7	15 ^h 21	14 ^h 14	9 ^h 34	25 ^h 11	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
F 1	7s31	2n44	3n31	5s42	1s 4	3n14	0s41	6n28	0s10	18s29	0s29	11s55	2n35	17s 0	0s39	21n21	0s32	7s 2	13n18	15s50	16s 7	26n36	2s53	4s13			
S 2	7 8	8 54	4 20	4 49	0 56	3 45	0 38	6 46	0 9	18 26	0 29	11 55	2 36	16 59	0 39	21 22	0 32	7 2	13 18	15 51	16 8	26 35	2 51	4 12			
S 3	6 45	14 29	4 53	3 54	0 46	4 17	0 36	7 3	0 8	18 23	0 29	11 54	2 36	16 58	0 39	21 22	0 32	7 2	13 19	15 53	16 9	26 34	2 49	4 12			
M 4	6 22	19 17	5 11	3 0	0 36	4 48	0 33	7 21	0 7	18 19	0 30	11 53	2 36	16 57	0 39	21 22	0 32	7 1	13 19	15 54	16 10	26 33	2 47	4 12			
T 5	5 59	23 5	5 13	2 5	0 26	5 19	0 30	7 38	0 7	18 16	0 30	11 53	2 36	16 56	0 39	21 22	0 32	7 1	13 19	15 55	16 11	26 32	2 45	4 12			
W 6	5 35	25 46	5 0	1 10	0 15	5 49	0 28	7 55	0 6	18 13	0 30	11 52	2 37	16 56	0 39	21 22	0 32	7 0	13 20	15 55	16 12	26 31	2 43	4 12			
T 7	5 12	27 13	4 35	0 15	0 4	6 20	0 25	8 13	0 5	18 9	0 30	11 51	2 37	16 55	0 39	21 22	0 32	7 0	13 20	15 56	16 13	26 30	2 41	4 11			
F 8	4 49	27 24	3 58	0n40	0n 8	6 51	0 22	8 30	0 4	18 6	0 30	11 50	2 37	16 54	0 39	21 22	0 32	7 0	13 20	15 55	16 13	26 28	2 39	4 11			
S 9	4 25	26 20	3 11	1 34	0 20	7 21	0 19	8 47	0 4	18 3	0 30	11 49	2 37	16 53	0 39	21 23	0 32	6 59	13 21	15 55	16 14	26 27	2 37	4 11			
S 10	4 2	24 4	2 15	2 27	0 33	7 51	0 16	9 4	0 3	17 59	0 30	11 48	2 37	16 52	0 39	21 23	0 32	6 59	13 21	15 54	16 15	26 26	2 35	4 11			
M11	3 38	20 44	1 14	3 19	0 46	8 22	0 13	9 21	0 2	17 56	0 30	11 48	2 38	16 51	0 39	21 23	0 32	6 58	13 21	15 54	16 16	26 25	2 33	4 10			
T 12	3 15	16 29	0 8	4 10	0 59	8 51	0 10	9 38	0 1	17 53	0 31	11 47	2 38	16 50	0 39	21 23	0 32	6 58	13 22	15 54	16 17	26 24	2 30	4 10			
W13	2 51	11 29	0s59	4 59	1 12	9 21	0 7	9 54	0 1	17 50	0 31	11 46	2 38	16 49	0 39	21 23	0 32	6 58	13 22	15 54	16 18	26 23	2 28	4 10			
T 14	2 28	5 55	2 4	5 46	1 24	9 51	0 4	10 11	0 0	17 46	0 31	11 45	2 38	16 49	0 39	21 23	0 32	6 57	13 23	15 55	16 19	26 22	2 26	4 10			
F 15	2 4	0 0	3 5	6 30	1 37	10 20	0 1	10 27	0n 1	17 43	0 31	11 44	2 38	16 48	0 39	21 23	0 32	6 57	13 23	15 56	16 20	26 21	2 24	4 9			
S 16	1 40	6s 1	3 57	7 12	1 50	10 49	0n 2	10 44	0 1	17 40	0 31	11 43	2 39	16 47	0 39	21 23	0 32	6 56	13 23	15 58	16 21	26 20	2 22	4 9			
S 17	1 17	11 54	4 36	7 52	2 2	11 18	0 5	11 0	0 2	17 36	0 31	11 42	2 39	16 46	0 39	21 24	0 32	6 56	13 24	16 0	16 22	26 19	2 19	4 9			
M18	0 53	17 17	5 1	8 28	2 14	11 46	0 8	11 16	0 3	17 33	0 32	11 40	2 39	16 45	0 39	21 24	0 32	6 56	13 24	16 2	16 23	26 17	2 17	4 8			
T 19	0 29	21 52	5 9	9 1	2 25	12 14	0 12	11 32	0 3	17 30	0 32	11 39	2 39	16 44	0 39	21 24	0 32	6 55	13 24	16 4	16 24	26 16	2 15	4 8			
W20	0 5	25 15	4 59	9 30	2 35	12 42	0 15	11 48	0 4	17 27	0 32	11 38	2 39	16 44	0 39	21 24	0 31	6 55	13 25	16 5	16 25	26 15	2 13	4 8			
T 21	0n18	27 6	4 30	9 56	2 45	13 10	0 18	12 4	0 5	17 24	0 32	11 37	2 39	16 43	0 39	21 24	0 31	6 54	13 25	16 6	16 26	26 14	2 10	4 7			
F 22	0 42	27 14	3 45	10 19	2 54	13 37	0 21	12 20	0 6	17 20	0 32	11 36	2 40	16 42	0 39	21 24	0 31	6 54	13 25	16 6	16 27	26 13	2 8	4 7			
S 23	1 5	25 35	2 47	10 37	3 2	14 4	0 24	12 35	0 6	17 17	0 32	11 35	2 40	16 41	0 39	21 24	0 31	6 53	13 26	16 6	16 27	26 12	2 6	4 6			
S 24	1 29	22 18	1 38	10 52	3 8	14 31	0 28	12 51	0 7	17 14	0 32	11 34	2 40	16 41	0 39	21 24	0 31	6 53	13 26	16 6	16 28	26 11	2 4	4 6			
M25	1 53	17 43	0 23	11 2	3 14	14 58	0 31	13 6	0 8	17 11	0 33	11 32	2 40	16 40	0 39	21 24	0 31	6 52	13 26	16 6	16 29	26 9	2 1	4 6			
T 26	2 16	12 10	0n52	11 8	3 18	15 24	0 34	13 21	0 8	17 8	0 33	11 31	2 40	16 39	0 39	21 24	0 31	6 52	13 26	16 6	16 30	26 8	1 59	4 5			
W27	2 40	6 3	2 4	11 11	3 20	15 49	0 37	13 36	0 9	17 5	0 33	11 30	2 40	16 38	0 39	21 24	0 31	6 52	13 27	16 6	16 31	26 7	1 57	4 5			
T 28	3 3	0n17	3 8	11 9	3 21	16 14	0 41	13 51	0 10	17 1	0 33	11 29	2 40	16 38	0 39	21 24	0 31	6 51	13 27	16 8	16 32	26 6	1 55	4 4			
F 29	3 27	6 30	4 0	11 3	3 21	16 39	0 44	14 6	0 10	16 58	0 33	11 27	2 41	16 37	0 39	21 24	0 31	6 51	13 27	16 10	16 33	26 5	1 52	4 4			
S 30	3 50	12 18	4 37	10 53	3 19	17 4	0 47	14 20	0 11	16 55	0 33	11 26	2 41	16 36	0 39	21 24	0 31	6 50	13 28	16 13	16 34	26 3	1 50	4 3			
S 31	4n13	17n26	4n59	10n40	3n15	17n28	0n50	14n35	0n12	16s52	0s34	11s25	2n41	16s36	0s40	21n24	0s31	6s50	13n28	16s15	16s35	26n 2	1s48	4s 3			

ASTRODIENST EPHEMERIS for the year 1748
geocentric

APRIL 1748

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	12 38 48	11°37'35"	16°8'28"	19°R 1	17°8'13"	9°8'21"	15°≈16	7°R10	16°≈22	20°≈24	29°R 6	15°R11	14°≈11	9°≈47	25°R 6	M 1
T 2	12 42 44	12°36'39"	28°59'	18°Y25	18°25'	10° 4	15°27'	7°M 6	16°25'	20°25'	29°M 5	15°≈ 2	14° 8	9°54'	25°M 2	T 2
W 3	12 46 41	13°35'40"	11°II14	17°45'	19°36'	10°46'	15°37'	7° 2	16°27'	20°25'	29° 4	14°55'	14° 5	10° 1	24°57'	W 3
T 4	12 50 37	14°34'40"	23°16'	17° 2	20°47'	11°29'	15°48'	6°58'	16°29'	20°25'	29° 3	14°50'	14° 2	10° 7	24°53'	T 4
F 5	12 54 34	15°33'37"	5°≈ 9	16°18'	21°58'	12°12'	15°58'	6°54'	16°31'	20°25'	29° 2	14°48'	13°58'	10°14'	24°49'	F 5
S 6	12 58 30	16°32'31"	16°59'	15°32'	23° 9	12°55'	16° 8	6°50'	16°33'	20°25'	29° 1	14°D47	13°55'	10°21'	24°45'	S 6
S 7	13 2 27	17°31'24"	28°49'	14°45'	24°20'	13°37'	16°18'	6°46'	16°36'	20°25'	29° 0	14°48'	13°52'	10°27'	24°40'	S 7
M 8	13 6 23	18°30'14"	10°Ω47	14° 0	25°31'	14°20'	16°29'	6°41'	16°38'	20°25'	28°59'	14°R48	13°49'	10°34'	24°36'	M 8
T 9	13 10 20	19°29'01"	22°56'	13°16'	26°42'	15° 3	16°39'	6°37'	16°40'	20°26'	28°58'	14°48'	13°46'	10°41'	24°32'	T 9
W10	13 14 17	20°27'47"	5°M22	12°34'	27°52'	15°45'	16°48'	6°33'	16°42'	20°26'	28°57'	14°46'	13°43'	10°47'	24°28'	W10
T 11	13 18 13	21°26'30"	18° 8	11°54'	29° 3	16°28'	16°58'	6°29'	16°44'	20°26'	28°55'	14°42'	13°39'	10°54'	24°24'	T 11
F 12	13 22 10	22°25'11"	1°Δ15	11°19'	0°II13	17°10'	17° 8	6°24'	16°45'	20°27'	28°54'	14°35'	13°36'	11° 1	24°20'	F 12
S 13	13 26 6	23°23'50"	14°45'	10°47'	1°24'	17°52'	17°17'	6°20'	16°47'	20°27'	28°53'	14°26'	13°33'	11° 7	24°16'	S 13
S 14	13 30 3	24°22'27"	28°35'	10°20'	2°34'	18°35'	17°27'	6°16'	16°49'	20°28'	28°52'	14°15'	13°30'	11°14'	24°13'	S 14
M15	13 33 59	25°21'03"	12°M42	9°57'	3°44'	19°17'	17°36'	6°11'	16°51'	20°28'	28°50'	14° 4	13°27'	11°21'	24° 9	M15
T 16	13 37 56	26°19'36"	27° 0	9°39'	4°54'	19°59'	17°45'	6° 7	16°53'	20°29'	28°49'	13°54'	13°24'	11°27'	24° 5	T 16
W17	13 41 52	27°18'08"	11°A23	9°27'	6° 4	20°41'	17°54'	6° 2	16°54'	20°29'	28°48'	13°45'	13°20'	11°34'	24° 2	W17
T 18	13 45 49	28°16'38"	25°47'	9°19'	7°13'	21°24'	18° 3	5°58'	16°56'	20°30'	28°46'	13°39'	13°17'	11°41'	23°58'	T 18
F 19	13 49 46	29°15'06"	10°Σ 5	9°D16	8°23'	22° 6	18°12'	5°53'	16°58'	20°30'	28°45'	13°36'	13°14'	11°47'	23°55'	F 19
S 20	13 53 42	0°B13'33"	24°17'	9°19'	9°33'	22°48'	18°20'	5°49'	16°59'	20°31'	28°44'	13°35'	13°11'	11°54'	23°52'	S 20
S 21	13 57 39	1°11'58"	8°≈20	9°26'	10°42'	23°30'	18°29'	5°44'	17° 1	20°32'	28°42'	13°35'	13° 8	12° 1	23°49'	S 21
M22	14 1 35	2°10'22"	22°14'	9°38'	11°51'	24°12'	18°37'	5°40'	17° 2	20°32'	28°41'	13°35'	13° 4	12° 7	23°46'	M22
T 23	14 5 32	3° 8'44"	5°K59	9°55'	13° 0	24°54'	18°45'	5°35'	17° 4	20°33'	28°39'	13°33'	13° 1	12°14'	23°43'	T 23
W24	14 9 28	4° 7'04"	10°17'	14°10'	25°36'	18°54'	5°31'	17° 5	20°34'	28°38'	13°29'	12°58'	12°21'	23°40'	W24	
T 25	14 13 25	5° 5'23"	3°Y 1	10°43'	15°18'	26°17'	19° 2	5°26'	17° 6	20°35'	28°36'	13°22'	12°55'	12°27'	23°37'	T 25
F 26	14 17 21	6° 3'40"	16°16'	11°13'	16°27'	26°59'	19° 9	5°22'	17° 8	20°35'	28°35'	13°13'	12°52'	12°34'	23°34'	F 26
S 27	14 21 18	7° 1'55"	29°19'	11°47'	17°36'	27°41'	19°17'	5°17'	17° 9	20°36'	28°33'	13° 1	12°49'	12°41'	23°32'	S 27
S 28	14 25 14	8° 0'09"	12°B 9	12°25'	18°44'	28°23'	19°25'	5°13'	17°10'	20°37'	28°32'	12°48'	12°45'	12°47'	23°29'	S 28
M29	14 29 11	8°58'21"	24°45'	13° 7	19°53'	29° 4	19°32'	5° 8	17°11'	20°38'	28°30'	12°35'	12°42'	12°54'	23°27'	M29
T 30	14 33 8	9°B56'31"	7°II 7	13°Y53	21°II 1	29°B46	19°≈39	5°M 3	17°≈12	20°≈39	28°M29	12°≈22	12°≈39	13°≈ 1	23°M24	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
M 1	4n36	21n39	5n 5	10n23	3n 9	17n52	0n54	14n49	0n12	16s49	0s34	11s23	2n41	16s35	0s40	21n24	0s31	6s49	13n28	16s18	16s36	26n 1	1s46	4s 3	
T 2	4 59	24 47	4 56	10 2	3 2	18 15	0 57	15 4	0 13	16 46	0 34	11 22	2 41	16 34	0 40	21 25	0 31	6 49	13 28	16 21	16 37	26 0	1 44	4 2	
W 3	5 22	26 41	4 34	9 39	2 54	18 37	1 0	15 18	0 14	16 43	0 34	11 20	2 41	16 34	0 40	21 25	0 31	6 48	13 29	16 23	16 38	25 58	1 41	4 2	
T 4	5 45	27 18	4 0	9 13	2 43	19 0	1 3	15 32	0 14	16 40	0 34	11 19	2 41	16 33	0 40	21 25	0 31	6 48	13 29	16 24	16 39	25 57	1 39	4 1	
F 5	6 8	26 38	3 16	8 45	2 32	19 22	1 7	15 45	0 15	16 37	0 35	11 18	2 41	16 32	0 40	21 25	0 31	6 47	13 29	16 25	16 39	25 56	1 37	4 1	
S 6	6 31	24 46	2 23	8 16	2 19	19 43	1 10	15 59	0 15	16 34	0 35	11 16	2 41	16 32	0 40	21 25	0 31	6 47	13 29	16 25	16 40	25 55	1 35	4 0	
S 7	6 53	21 48	1 24	7 45	2 5	20 4	1 13	16 12	0 16	16 32	0 35	11 15	2 42	16 31	0 40	21 25	0 31	6 46	13 30	16 25	16 41	25 53	1 33	3 59	
M 8	7 16	17 54	0 22	7 13	1 51	20 24	1 16	16 26	0 17	16 29	0 35	11 13	2 42	16 30	0 40	21 25	0 31	6 46	13 30	16 25	16 42	25 52	1 31	3 59	
T 9	7 38	13 13	0s43	6 42	1 35	20 44	1 19	16 39	0 17	16 26	0 35	11 12	2 42	16 30	0 40	21 25	0 31	6 46	13 30	16 25	16 43	25 51	1 28	3 58	
W10	8 0	7 54	1 47	6 11	1 19	21 3	1 22	16 52	0 18	16 23	0 35	11 11	2 42	16 29	0 40	21 24	0 31	6 45	13 30	16 26	16 44	25 50	1 26	3 58	
T 11	8 22	2 8	2 48	5 40	1 2	21 22	1 26	17 5	0 19	16 20	0 36	11 9	2 42	16 29	0 40	21 24	0 31	6 45	13 31	16 27	16 45	25 48	1 24	3 57	
F 12	8 44	3s52	3 41	5 11	0 46	21 40	1 29	17 17	0 19	16 18	0 36	11 8	2 42	16 28	0 40	21 24	0 31	6 44	13 31	16 29	16 46	25 47	1 22	3 57	
S 13	9 6	9 51	4 23	4 43	0 29	21 58	1 32	17 30	0 20	16 15	0 36	11 6	2 42	16 28	0 40	21 24	0 31	6 44	13 31	16 32	16 47	25 46	1 20	3 56	
S 14	9 28	15 31	4 51	4 17	0 13	22 15	1 35	17 42	0 20	16 12	0 36	11 5	2 42	16 27	0 40	21 24	0 31	6 43	13 31	16 35	16 48	25 44	1 18	3 56	
M15	9 49	20 27	5 2	3 54	0s 4	22 31	1 38	17 55	0 21	16 10	0 36	11 3	2 42	16 27	0 40	21 24	0 31	6 43	13 31	16 38	16 49	25 43	1 16	3 55	
T 16	10 10	24 17	4 54	3 32	0 19	22 47	1 40	18 7	0 22	16 7	0 37	11 2	2 42	16 26	0 40	21 24	0 31	6 42	13 32	16 41	16 50	25 42	1 14	3 54	
W17	10 32	26 36	4 28	3 13	0 35	23 3	1 43	18 18	0 22	16 4	0 37	11 0	2 42	16 26	0 40	21 24	0 31	6 42	13 32	16 43	16 50	25 40	1 12	3 54	
T 18	10 53	27 9	3 45	2 56	0 50	23 18	1 46	18 30	0 23	16 2	0 37	10 59	2 42	16 25	0 40	21 24	0 31	6 42	13 32	16 45	16 51	25 39	1 10	3 53	
F 19	11 13	25 52	2 47	2 42	1 4	23 32	1 49	18 42	0 23	15 59	0 37	10 57	2 42	16 25	0 40	21 24	0 31	6 41	13 32	16 46	16 52	25 38	1 8	3 53	
S 20	11 34	22 56	1 40	2 31	1 17	23 45	1 52	18 53	0 24	15 57	0 37	10 56	2 42	16 24	0 40	21 24	0 31	6 41	13 32	16 46	16 53	25 36	1 7	3 52	
S 21	11 54	18 39	0 28	2 22	1 30	23 58	1 54	19 4	0 25	15 54	0 38	10 54	2 42	16 24	0 40	21 24	0 31	6 40	13 32	16 46	16 54	25 35	1 5	3 51	
M22	12 15	13 24	0n46	2 16	1 42	24 10	1 57	19 15	0 25	15 52	0 38	10 53	2 42	16 24	0 40	21 24	0 31	6 40	13 33	16 46	16 55	25 34	1 3	3 51	
T 23	12 35	7 32	1 56	2 12	1 53	24 22	2 0	19 26	0 26	15 50	0 38	10 51	2 42	16 23	0 40	21 24	0 31	6 39	13 33	16 47	16 56	25 32	1 1	3 50	
W24	12 55	1 24	2 58	2 11	2 3	24 33	2 2	19 37	0 26	15 47	0 38	10 50	2 42	16 23	0 40	21 24	0 30	6 39	13 33	16 48	16 57	25 31	0 59	3 49	
T 25	13 14	4n43	3 50	2 13	2 13	24 43	2 4	19 47	0 27	15 45	0 38	10 48	2 42	16 22	0 40	21 24	0 30	6 39	13 33	16 50	16 58	25 29	0 58	3 49	
F 26	13 34	10 31	4 28	2 16	2 22	24 53	2 7	19 57	0 27	15 43	0 39	10 47	2 42	16 22	0 40	21 24	0 30	6 38	13 33	16 53	16 59	25 28	0 56	3 48	
S 27	13 53	15 47	4 52	2 22	2 29	25 2	2 9	20 7	0 28	15 41	0 39	10 45	2 42	16 22	0 40	21 23	0 30	6 38	13 33	16 56	16 59	25 27	0 54	3 47	
S 28	14 12	20 15	5 0	2 31	2 37	25 11	2 11	20 17	0 28	15 38	0 39	10 44	2 42	16 21	0 40	21 23	0 30	6 37	13 33	17 0	17 0	25 25	0 53	3 47	
M29	14 31	23 43	4 53	2 41	2 43	25 18	2 14	20 27	0 29	15 36	0 39	10 42	2 42	16 21	0 41	21 23	0 30	6 37	13 33	17 3	17 3	25 24	0 51	3 46	
T 30	14n49	26n 1	4n33	2n54	2s49	25n26	2n16	20n37	0n30	15s34	0s40	10s41	2n42	16s21	0s41	21n23	0s30	6s37	13n33	17s 7	17s 2	25n22	0s50	3s45	

ASTRODIENST EPHEMERIS for the year 1748
geocentric

MAY 1748

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	14 37 4	10♈54'39	19♐16	14♊42	22♋9	0♌28	19♍46	4°R59	17°13	20°40	28°R27	12°R12	12°36	13°57	23°R22	W 1
T 2	14 41 1	11°52'46	1♑15	15°34	23°17	1°9	19°53	4♎54	17°14	20°41	28°M26	12°55	12°33	13°14	23°M20	T 2
F 3	14 44 57	12°50'51	13°7	16°30	24°25	1°51	20°0	4°50	17°15	20°42	28°24	12°0	12°29	13°21	23°18	F 3
S 4	14 48 54	13°48'53	24°55	17°28	25°33	2°32	20°7	4°45	17°16	20°43	28°23	11°58	12°26	13°27	23°16	S 4
S 5	14 52 50	14°46'54	6♌44	18°30	26°40	3°14	20°13	4°41	17°17	20°44	28°21	11°57	12°23	13°34	23°14	S 5
M 6	14 56 47	15°44'53	18°41	19°35	27°47	3°55	20°20	4°37	17°18	20°45	28°19	11°57	12°20	13°41	23°13	M 6
T 7	15 0 44	16°42'50	0♍50	20°42	28°55	4°36	20°26	4°32	17°18	20°47	28°18	11°57	12°17	13°47	23°11	T 7
W 8	15 4 40	17°40'45	13°16	21°52	0♎1	5°18	20°32	4°28	17°19	20°48	28°16	11°55	12°14	13°54	23°9	W 8
T 9	15 8 37	18°38'39	26°5	23°4	1°8	5°59	20°38	4°23	17°20	20°49	28°15	11°50	12°10	14°1	23°8	T 9
F 10	15 12 33	19°36'30	9♌19	24°20	2°15	6°40	20°44	4°19	17°20	20°50	28°13	11°44	12°7	14°7	23°7	F 10
S 11	15 16 30	20°34'20	22°59	25°37	3°21	7°21	20°49	4°15	17°21	20°51	28°11	11°35	12°4	14°14	23°6	S 11
S 12	15 20 26	21°32'09	7♎5	26°57	4°28	8°2	20°55	4°11	17°21	20°53	28°10	11°24	12°1	14°21	23°5	S 12
M13	15 24 23	22°29'56	21°33	28°20	5°34	8°43	21°0	4°6	17°22	20°54	28°8	11°13	11°58	14°27	23°4	M13
T 14	15 28 19	23°27'41	6♌14	29°45	6°39	9°24	21°5	4°2	17°22	20°55	28°6	11°2	11°55	14°34	23°3	T 14
W15	15 32 16	24°25'25	21°3	1♊12	7°45	10°5	21°10	3°58	17°23	20°57	28°5	10°53	11°51	14°41	23°2	W15
T 16	15 36 13	25°23'08	5♊50	2°42	8°50	10°46	21°14	3°54	17°23	20°58	28°3	10°47	11°48	14°47	23°2	T 16
F 17	15 40 9	26°20'50	20°29	4°14	9°56	11°27	21°19	3°50	17°23	21°0	28°1	10°44	11°45	14°54	23°1	F 17
S 18	15 44 6	27°18'31	4♌54	5°48	11°1	12°8	21°23	3°46	17°24	21°1	28°0	10°D42	11°42	15°1	23°1	S 18
S 19	15 48 2	28°16'11	19°3	7°24	12°5	12°49	21°28	3°42	17°24	21°3	27°58	10°42	11°39	15°7	23°1	S 19
M20	15 51 59	29°13'49	2♊56	9°3	13°10	13°30	21°32	3°38	17°24	21°4	27°56	10°R42	11°35	15°14	23°0	M20
T 21	15 55 55	0♐11'27	16°32	10°44	14°14	14°11	21°36	3°34	17°24	21°6	27°55	10°41	11°32	15°21	23°D 0	T 21
W22	15 59 52	1°9'04	29°54	12°27	15°18	14°51	21°39	3°31	17°R24	21°7	27°53	10°38	11°29	15°27	23°1	W22
T 23	16 3 48	2°6'39	13°Y 1	14°13	16°22	15°32	21°43	3°27	17°24	21°9	27°52	10°33	11°26	15°34	23°1	T 23
F 24	16 7 45	3°4'14	25°56	16°0	17°26	16°13	21°46	3°23	17°24	21°10	27°50	10°24	11°23	15°41	23°1	F 24
S 25	16 11 42	4°1'48	8♊39	17°50	18°29	16°53	21°49	3°20	17°24	21°12	27°48	10°14	11°20	15°47	23°2	S 25
S 26	16 15 38	4°59'21	21°11	19°43	19°32	17°34	21°52	3°16	17°23	21°14	27°47	10°3	11°16	15°54	23°2	S 26
M27	16 19 35	5°56'53	3♐31	21°37	20°35	18°14	21°55	3°13	17°23	21°15	27°45	9°51	11°13	16°1	23°3	M27
T 28	16 23 31	6°54'24	15°42	23°34	21°38	18°55	21°58	3°9	17°23	21°17	27°43	9°40	11°10	16°7	23°4	T 28
W29	16 27 28	7°51'53	27°43	25°32	22°40	19°35	22°0	3°6	17°23	21°19	27°42	9°32	11°7	16°14	23°5	W29
T 30	16 31 24	8°49'22	9♌36	27°33	23°42	20°16	22°2	3°3	17°22	21°20	27°40	9°25	11°4	16°21	23°6	T 30
F 31	16 35 21	9♐46'50	21°25	29°36	24°44	20°II56	22°44	2°M59	17°22	21°22	27°M38	9°21	11°1	16°27	23°M7	F 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
W 1	15n 7	27n 2	4n 0	3n 8	2s53	25n32	2n18	20n46	0n30	15s32	0s40	10s39	2n42	16s20
T 2	15 25	26 46	3 18	3 24	2 58	25 38	2 20	20 55	0 31	15 30	0 40	10 38	2 42	16 20
F 3	15 43	25 15	2 26	3 43	3 1	25 43	2 22	21 4	0 31	15 28	0 40	10 37	2 42	16 20
S 4	16 0	22 38	1 29	4 2	3 4	25 47	2 23	21 13	0 32	15 26	0 40	10 35	2 42	16 20
S 5	16 18	19 4	0 28	4 24	3 6	25 51	2 25	21 21	0 32	15 24	0 41	10 34	2 42	16 19
M 6	16 35	14 41	0s36	4 47	3 7	25 54	2 27	21 30	0 33	15 23	0 41	10 32	2 42	16 19
T 7	16 51	9 40	1 38	5 12	3 7	25 56	2 28	21 38	0 33	15 21	0 41	10 31	2 42	16 19
W 8	17 8	4 9	2 38	5 38	3 7	25 58	2 30	21 46	0 34	15 19	0 41	10 30	2 41	16 19
T 9	17 24	1s40	3 31	6 6	3 6	25 59	2 31	21 54	0 34	15 18	0 42	10 28	2 41	16 19
F 10	17 40	7 36	4 15	6 34	3 5	26 0	2 32	22 1	0 35	15 16	0 42	10 27	2 41	16 19
S 11	17 55	13 22	4 46	7 5	3 3	25 59	2 33	22 9	0 35	15 14	0 42	10 25	2 41	16 18
S 12	18 10	18 37	5 0	7 36	3 0	25 58	2 35	22 16	0 36	15 13	0 42	10 24	2 41	16 18
M13	18 25	22 56	4 56	8 8	2 57	25 57	2 36	22 23	0 36	15 11	0 43	10 23	2 41	16 18
T 14	18 40	25 51	4 33	8 42	2 53	25 55	2 36	22 30	0 37	15 10	0 43	10 22	2 41	16 18
W15	18 54	27 1	3 51	9 16	2 49	25 52	2 37	22 36	0 37	15 9	0 43	10 20	2 41	16 18
T 16	19 8	26 14	2 54	9 51	2 44	25 48	2 38	22 43	0 38	15 7	0 43	10 19	2 41	16 18
F 17	19 22	23 39	1 45	10 27	2 39	25 44	2 38	22 49	0 38	15 6	0 43	10 18	2 40	16 18
S 18	19 35	19 34	0 31	11 4	2 33	25 39	2 39	22 55	0 39	15 5	0 44	10 17	2 40	16 18
S 19	19 48	14 26	0n44	11 42	2 26	25 34	2 39	23 1	0 39	15 4	0 44	10 15	2 40	16 18
M20	20 1	8 39	1 55	12 20	2 19	25 28	2 39	23 6	0 40	15 3	0 44	10 14	2 40	16 18
T 21	20 13	2 35	2 58	12 59	2 11	25 21	2 39	23 12	0 40	15 2	0 44	10 13	2 40	16 18
W22	20 25	3n28	3 50	13 38	2 3	25 14	2 39	23 17	0 40	15 1	0 45	10 12	2 40	16 18
T 23	20 37	9 16	4 29	14 18	1 55	25 6	2 39	23 22	0 41	15 0	0 45	10 11	2 40	16 18
F 24	20 48	14 35	4 53	14 57	1 46	24 58	2 39	23 27	0 41	14 59	0 45	10 10	2 39	16 18
S 25	20 59	19 10	5 3	15 37	1 37	24 49	2 38	23 31	0 42	14 58	0 45	10 9	2 39	16 18
S 26	21 10	22 51	4 57	16 17	1 27	24 39	2 38	23 36	0 42	14 58	0 46	10 8	2 39	16 18
M27	21 20	25 26	4 38	16 57	1 18	24 29	2 37	23 40	0 43	14 57	0 46	10 7	2 39	16 18
T 28	21 30	26 47	4 6	17 36	1 7	24 18	2 36	23 44	0 43	14 56	0 46	10 6	2 39	16 18
W29	21 39	26 50	3 23	18 15	0 57	24 7	2 35	23 47	0 44	14 56	0 46	10 5	2 39	16 19
T 30	21 48	25 39	2 32	18 53	0 46	23 55	2 34	23 51	0 44	14 55	0 47	10 4	2 38	16 19
F 31	21n57	23n19	1n34	19n31	0s36	23n43	2n33	23n54	0n44	14s55	0s47	10s 3	2n38	16s19

Julian Day Number = 2359624.5, Delta T = 15.52 sec
Ecliptic obliquity = 23°28'25", Nutation = 0°00'11", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 21°13'36", Lahiri = 20°20'37"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1748
geocentric

JUNE 1748

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 39 17	10II44'16	3♂12	1II40	25♂45	21II37	22♂ 6	2°R56	17°R21	21♂24	27°R37	9°R19	10♂57	16♂34	23♂ 8	S 1
S 2	16 43 14	11°41'41	15° 0	3°46	26°46	22°17	22° 8	2♂53	17♂21	21°26	27♂35	9°D19	10°54	16°41	23° 9	S 2
M 3	16 47 11	12°39'06	26°56	5°54	27°47	22°57	22° 9	2°50	17°20	21°27	27°34	9♂20	10°51	16°47	23°11	M 3
T 4	16 51 7	13°36'29	9♂ 4	8° 3	28°47	23°37	22°11	2°47	17°20	21°29	27°32	9°R21	10°48	16°54	23°12	T 4
W 5	16 55 4	14°33'50	21°29	10°13	29°47	24°18	22°12	2°45	17°19	21°31	27°31	9°21	10°45	17° 1	23°14	W 5
T 6	16 59 0	15°31'11	4♂16	12°24	0♂46	24°58	22°13	2°42	17°18	21°33	27°29	9°19	10°41	17° 7	23°16	T 6
F 7	17 2 57	16°28'31	17°28	14°35	1°46	25°38	22°13	2°39	17°18	21°35	27°27	9°15	10°38	17°14	23°18	F 7
S 8	17 6 53	17°25'50	1♂10	16°47	2°44	26°18	22°14	2°37	17°17	21°37	27°26	9° 9	10°35	17°20	23°20	S 8
S 9	17 10 50	18°23'07	15°19	18°59	3°43	26°58	22°14	2°34	17°16	21°39	27°24	9° 2	10°32	17°27	23°22	S 9
M10	17 14 46	19°20'25	29°54	21°11	4°41	27°38	22°R14	2°32	17°15	21°41	27°23	8°55	10°29	17°34	23°24	M10
T 11	17 18 43	20°17'41	14♂48	23°22	5°38	28°18	22°14	2°29	17°14	21°43	27°21	8°48	10°26	17°40	23°27	T 11
W12	17 22 40	21°14'57	29°53	25°33	6°35	28°58	22°14	2°27	17°13	21°45	27°20	8°42	10°22	17°47	23°29	W12
T 13	17 26 36	22°12'12	15♂ 0	27°43	7°32	29°38	22°14	2°25	17°12	21°47	27°18	8°38	10°19	17°54	23°32	T 13
F 14	17 30 33	23° 9'27	29°58	29°51	8°28	0♂18	22°13	2°23	17°11	21°49	27°17	8°36	10°16	18° 0	23°34	F 14
S 15	17 34 29	24° 6'41	14♂41	1♂58	9°24	0°58	22°12	2°21	17°10	21°51	27°16	8°D36	10°13	18° 7	23°37	S 15
S 16	17 38 26	25° 3'55	29° 5	4° 4	10°19	1°38	22°11	2°19	17° 9	21°53	27°14	8°37	10°10	18°14	23°40	S 16
M17	17 42 22	26° 1'09	13♂ 6	6° 8	11°13	2°17	22°10	2°17	17° 8	21°55	27°13	8°38	10° 7	18°20	23°43	M17
T 18	17 46 19	26°58'23	26°44	8°10	12° 8	2°57	22° 8	2°16	17° 6	21°57	27°11	8°R39	10° 3	18°27	23°46	T 18
W19	17 50 15	27°55'37	10°Y 2	10°10	13° 1	3°37	22° 7	2°14	17° 5	21°59	27°10	8°38	10° 0	18°34	23°50	W19
T 20	17 54 12	28°52'50	23° 1	12° 8	13°54	4°17	22° 5	2°13	17° 4	22° 1	27° 9	8°35	9°57	18°40	23°53	T 20
F 21	17 58 9	29°50'04	5♂43	14° 4	14°46	4°56	22° 3	2°11	17° 3	22° 3	27° 7	8°31	9°54	18°47	23°56	F 21
S 22	18 2 5	0♂47'17	18°12	15°59	15°38	5°36	22° 1	2°10	17° 1	22° 5	27° 6	8°26	9°51	18°54	24° 0	S 22
S 23	18 6 2	1°44'30	0II29	17°51	16°29	6°15	21°59	2° 9	17° 0	22° 7	27° 5	8°20	9°47	19° 0	24° 4	S 23
M24	18 9 58	2°41'44	12°36	19°40	17°19	6°55	21°56	2° 7	16°58	22° 9	27° 4	8°13	9°44	19° 7	24° 7	M24
T 25	18 13 55	3°38'57	24°36	21°28	18° 9	7°35	21°53	2° 6	16°57	22°11	27° 2	8° 7	9°41	19°14	24°11	T 25
W26	18 17 51	4°36'10	6♂29	23°14	18°58	8°14	21°50	2° 5	16°55	22°13	27° 1	8° 3	9°38	19°20	24°15	W26
T 27	18 21 48	5°33'23	18°18	24°57	19°46	8°54	21°47	2° 5	16°54	22°16	27° 0	7°59	9°35	19°27	24°19	T 27
F 28	18 25 45	6°30'36	0♂ 5	26°38	20°34	9°33	21°44	2° 4	16°52	22°18	26°59	7°58	9°32	19°34	24°23	F 28
S 29	18 29 41	7°27'49	11°52	28°18	21°21	10°13	21°41	2° 3	16°50	22°20	26°58	7°D57	9°28	19°40	24°28	S 29
S 30	18 33 38	8♂25'01	23♂43	29♂54	22♂ 6	10♂52	21♂37	2♂ 3	16♂49	22♂22	26♂56	7♂58	9♂25	19♂47	24♂32	S 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	decl	lat	decl	lat
S 1	22n 5	20n 0	0n33	20n 7	0s25	23n30	2n31	23n57	0n45	14s54	0s47	10s 2	2n38	16s19	0s42	21n17	0s30	6s27	13n32	17s57	17s30	24n33	0s22	3s23					
S 2	22 13	15 52	0s31	20 42	0 14	23 17	2 30	24 0	0 45	14 54	0 48	10 1	2 38	16 19	0 42	21 17	0 30	6 27	13 32	17 57	17 31	24 32	0 22	3 22					
M 3	22 21	11 5	1 33	21 16	0 3	23 3	2 28	24 3	0 46	14 54	0 48	10 0	2 38	16 19	0 42	21 16	0 30	6 27	13 31	17 57	17 32	24 30	0 22	3 21					
T 4	22 28	5 49	2 33	21 48	0n 8	22 49	2 26	24 5	0 46	14 54	0 48	10 0	2 37	16 20	0 42	21 16	0 29	6 27	13 31	17 56	17 33	24 29	0 22	3 21					
W 5	22 35	0 13	3 27	22 19	0 18	22 34	2 24	24 7	0 47	14 54	0 48	9 59	2 37	16 20	0 42	21 16	0 29	6 27	13 31	17 57	17 34	24 27	0 22	3 20					
T 6	22 41	5s33	4 12	22 47	0 28	22 19	2 22	24 10	0 47	14 54	0 49	9 58	2 37	16 20	0 42	21 16	0 29	6 27	13 31	17 57	17 35	24 25	0 22	3 19					
F 7	22 47	11 16	4 46	23 13	0 38	22 4	2 20	24 11	0 47	14 54	0 49	9 57	2 37	16 20	0 42	21 15	0 29	6 27	13 30	17 58	17 36	24 24	0 22	3 18					
S 8	22 53	16 38	5 4	23 37	0 48	21 48	2 17	24 13	0 48	14 54	0 49	9 57	2 36	16 21	0 42	21 15	0 29	6 27	13 30	17 59	17 36	24 22	0 23	3 18					
S 9	22 58	21 19	5 5	23 58	0 57	21 32	2 15	24 14	0 48	14 54	0 49	9 56	2 36	16 21	0 42	21 15	0 29	6 26	13 30	18 1	17 37	24 20	0 23	3 17					
M10	23 3	24 50	4 47	24 16	1 6	21 15	2 12	24 16	0 48	14 54	0 50	9 55	2 36	16 21	0 42	21 15	0 29	6 26	13 30	18 3	17 38	24 19	0 23	3 16					
T 11	23 7	26 44	4 9	24 32	1 14	20 58	2 9	24 17	0 49	14 54	0 50	9 55	2 36	16 22	0 42	21 14	0 29	6 26	13 30	18 5	17 39	24 17	0 23	3 16					
W12	23 11	26 42	3 13	24 45	1 21	20 41	2 6	24 17	0 49	14 55	0 50	9 54	2 36	16 22	0 42	21 14	0 29	6 26	13 29	18 7	17 40	24 15	0 24	3 15					
T 13	23 15	24 41	2 4	24 55	1 28	20 23	2 2	24 18	0 50	14 55	0 50	9 54	2 35	16 22	0 42	21 14	0 29	6 26	13 29	18 8	17 41	24 13	0 24	3 14					
F 14	23 18	20 57	0 47	25 3	1 34	20 5	1 59	24 18	0 50	14 55	0 51	9 53	2 35	16 23	0 42	21 13	0 29	6 26	13 29	18 8	17 42	24 12	0 24	3 14					
S 15	23 21	15 55	0n33	25 7	1 40	19 46	1 55	24 19	0 50	14 56	0 51	9 53	2 35	16 23	0 42	21 13	0 29	6 26	13 28	18 8	17 43	24 10	0 25	3 13					
S 16	23 23	10 7	1 49	25 9	1 44	19 28	1 51	24 19	0 51	14 57	0 51	9 52	2 35	16 23	0 42	21 13	0 29	6 26	13 28	18 8	17 43	24 8	0 25	3 12					
M17	23 25	3 57	2 56	25 8	1 48	19 9	1 47	24 18	0 51	14 57	0 51	9 52	2 34	16 24	0 42	21 12	0 29	6 26	13 28	18 8	17 44	24 7	0 26	3 12					
T 18	23 26	2n14	3 51	25 4	1 51	18 50	1 43	24 18	0 52	14 58	0 52	9 52	2 34	16 24	0 42	21 12	0 29	6 26	13 28	18 8	17 45	24 5	0 27	3 11					
W19	23 27	8 9	4 33	24 58	1 54	18 30	1 38	24 17	0 52	14 59	0 52	9 51	2 34	16 25	0 42	21 12	0 29	6 26	13 27	18 8	17 46	24 3	0 27	3 10					
T 20	23 28	13 35	4 59	24 50	1 56	18 10	1 34	24 16	0 52	15 0	0 52	9 51	2 34	16 25	0 42	21 11	0 29	6 26	13 27	18 8	17 47	24 1	0 28	3 9					
F 21	23 28	18 19	5 10	24 40	1 56	17 51	1 29	24 15	0 53	15 0	0 53	9 51	2 33	16 25	0 42	21 11	0 29	6 26	13 27	18 9	17 48	24 0	0 29	3 9					
S 22	23 28	22 10	5 6	24 27	1 57	17 30	1 24	24 14	0 53	15 1	0 53	9 51	2 33	16 26	0 43	21 11	0 29	6 26	13 26	18 11	17 48	23 58	0 30	3 8					
S 23	23 28	24 58	4 48	24 12	1 56	17 10	1 19	24 13	0 53	15 2	0 53	9 51	2 33	16 26	0 43	21 11	0 29	6 26	13 26	18 13	17 49	23 56	0 30	3 7					
M24	23 27	26 35	4 17	23 56	1 55	16 50	1 13	24 11	0 54	15 3	0 53	9 50	2 33	16 27	0 43	21 10	0 29	6 26	13 26	18 14	17 50	23 54	0 31	3 7					
T 25	23 25	26 56	3 35	23 37	1 53	16 29	1 8	24 9	0 54	15 5	0 54	9 50	2 32	16 27	0 43	21 10	0 29	6 27	13 25	18 16	17 51	23 53	0 32	3 6					
W26	23 24	26 2	2 44	23 18	1 51	16 8	1 2	24 7	0 54	15 6	0 54	9 50	2 32	16 28	0 43	21 10	0 29	6 27	13 25	18 17	17 52	23 51	0 33	3 6					
T 27	23 21	23 58	1 46	22 56	1 48	15 47	0 56	24 5	0 55	15 7	0 54	9 50	2 32	16 28	0 43	21 9	0 29	6 27	13 24	18 18	17 53	23 49	0 34	3 5					
F 28	23 19	20 52	0 43	22 34	1 44	15 26	0 49	24 3	0 55	15 8	0 54	9 50	2 32	16 29	0 43	21 9	0 29	6 27	13 24	18 18	17 54	23 47	0 35	3 4					
S 29	23 16	16 55	0s21	22 10	1 40	15 5	0 43	24 0	0 55	15 10	0 55	9 50	2 31	16 29	0 43	21 9	0 29	6 27	13 24	18 18	17 54	23 45	0 36	3 4					
S 30	23n12	12n17	1s26	21n45	1n35	14n44	0n36	23n57	0n56	15s11	0s55	9s50	2n31	16s30	0s43	21n 8	0s29	6s27	13n23	18s18	17s55	23n44	0s37	3s 3					

ASTRODIENST EPHEMERIS for the year 1748

geocentric

JULY 1748

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 37 34	9 ⁵² 22'13	5 ¹⁷ 42	1 ¹² 29	22 ¹² 51	11 ⁵³ 31	21 ¹⁸ 33	2 ¹⁸ 2	16 ¹⁸ 47	22 ²² 24	26 ¹⁸ 55	8 ¹⁸ 0	9 ¹⁸ 22	19 ⁵² 54	24 ¹⁷ 36	M 1
T 2	18 41 31	10 ¹⁹ 25	17 ⁵¹	3 ²	23 ³⁶	12 ¹¹	21 ¹⁸ 29	2 ¹⁸ 2	16 ¹⁸ 45	22 ²² 26	26 ¹⁸ 54	8 ¹⁸ 2	9 ¹⁹	20 ⁰	24 ⁴¹	T 2
W 3	18 45 27	11 ¹⁶ 37	0 ¹⁶ 16	4 ³²	24 ¹⁹	12 ⁵⁰	21 ²⁵	2 ¹	16 ⁴³	22 ²⁹	26 ⁵³	8 ³	9 ¹⁶	20 ⁷	24 ⁴⁶	W 3
T 4	18 49 24	12 ¹³ 48	13 ¹	6 ⁰	25 ¹	13 ²⁹	21 ²¹	2 ¹	16 ⁴²	22 ³¹	26 ⁵²	8 ³	9 ¹³	20 ¹⁴	24 ⁵⁰	T 4
F 5	18 53 20	13 ¹¹ 00	26 ⁹	7 ²⁶	25 ⁴²	14 ⁹	21 ¹⁶	2 ¹	16 ⁴⁰	22 ³³	26 ⁵¹	8 ³	9 ⁹	20 ²⁰	24 ⁵⁵	F 5
S 6	18 57 17	14 ⁸ 11	9 ¹⁸ 44	8 ⁵⁰	26 ²²	14 ⁴⁸	21 ¹²	2 ¹	16 ³⁸	22 ³⁵	26 ⁵⁰	8 ¹	9 ⁶	20 ²⁷	25 ⁰	S 6
S 7	19 1 14	15 ⁵ 22	23 ⁴⁷	10 ¹¹	27 ¹	15 ²⁷	21 ⁷	2 ¹	16 ³⁶	22 ³⁷	26 ⁴⁹	7 ⁵⁸	9 ³	20 ³⁴	25 ⁵	S 7
M 8	19 5 10	16 ² 33	8 ¹⁷ 17	11 ³⁰	27 ³⁹	16 ⁶	21 ²	2 ²	16 ³⁴	22 ⁴⁰	26 ⁴⁸	7 ⁵⁶	9 ⁰	20 ⁴⁰	25 ¹⁰	M 8
T 9	19 9 7	16 ⁵⁹ 45	23 ⁹	12 ⁴⁶	28 ¹⁶	16 ⁴⁵	20 ⁵⁷	2 ²	16 ³²	22 ⁴²	26 ⁴⁷	7 ⁵³	8 ⁵⁷	20 ⁴⁷	25 ¹⁵	T 9
W10	19 13 3	17 ⁵⁶ 56	8 ¹⁶ 16	14 ⁰	28 ⁵¹	17 ²⁵	20 ⁵²	2 ²	16 ³⁰	22 ⁴⁴	26 ⁴⁶	7 ⁵¹	8 ⁵³	20 ⁵³	25 ²¹	W10
T 11	19 17 0	18 ⁵⁴ 08	23 ²⁹	15 ¹²	29 ²⁵	18 ⁴	20 ⁴⁶	2 ³	16 ²⁸	22 ⁴⁶	26 ⁴⁶	7 ⁴⁹	8 ⁵⁰	21 ⁰	25 ²⁶	T 11
F 12	19 20 56	19 ⁵¹ 20	8 ¹⁸ 38	16 ²¹	29 ⁵⁸	18 ⁴³	20 ⁴¹	2 ⁴	16 ²⁶	22 ⁴⁹	26 ⁴⁵	7 ⁴⁹	8 ⁴⁷	21 ⁷	25 ³¹	F 12
S 13	19 24 53	20 ⁴⁸ 33	23 ³⁵	17 ²⁷	0 ¹⁷ 30	19 ²²	20 ³⁵	2 ⁴	16 ²⁴	22 ⁵¹	26 ⁴⁴	7 ⁴⁹	8 ⁴⁴	21 ¹³	25 ³⁷	S 13
S 14	19 28 49	21 ⁴⁵ 46	8 ¹⁸ 13	18 ³¹	1 ⁰	20 ¹	20 ²⁹	2 ⁵	16 ²²	22 ⁵³	26 ⁴³	7 ⁵⁰	8 ⁴¹	21 ²⁰	25 ⁴²	S 14
M15	19 32 46	22 ⁴³ 00	22 ²⁶	19 ³²	1 ²⁸	20 ⁴⁰	20 ²³	2 ⁶	16 ²⁰	22 ⁵⁵	26 ⁴²	7 ⁵²	8 ³⁸	21 ²⁷	25 ⁴⁸	M15
T 16	19 36 43	23 ⁴⁰ 14	6 ¹⁷ 13	20 ²⁹	1 ⁵⁵	21 ¹⁹	20 ¹⁷	2 ⁷	16 ¹⁸	22 ⁵⁷	26 ⁴²	7 ⁵²	8 ³⁴	21 ³³	25 ⁵⁴	T 16
W17	19 40 39	24 ³⁷ 29	19 ³⁵	21 ²⁴	2 ²¹	21 ⁵⁸	20 ¹¹	2 ⁸	16 ¹⁶	23 ⁰	26 ⁴¹	7 ⁵³	8 ³¹	21 ⁴⁰	26 ⁰	W17
T 18	19 44 36	25 ³⁴ 45	2 ¹⁸ 34	22 ¹⁶	2 ⁴⁵	22 ³⁷	20 ⁴	2 ⁹	16 ¹³	23 ²	26 ⁴⁰	7 ⁵³	8 ²⁸	21 ⁴⁷	26 ⁶	T 18
F 19	19 48 32	26 ³² 02	15 ¹²	23 ⁴	3 ⁷	23 ¹⁶	19 ⁵⁸	2 ¹¹	16 ¹¹	23 ⁴	26 ⁴⁰	7 ⁵²	8 ²⁵	21 ⁵³	26 ¹²	F 19
S 20	19 52 29	27 ²⁹ 20	27 ³⁴	23 ⁴⁹	3 ²⁷	23 ⁵⁴	19 ⁵¹	2 ¹²	16 ⁹	23 ⁶	26 ³⁹	7 ⁵¹	8 ²²	22 ⁰	26 ¹⁸	S 20
S 21	19 56 25	28 ²⁶ 39	9 ¹⁸ 42	24 ³⁰	3 ⁴⁶	24 ³³	19 ⁴⁵	2 ¹³	16 ⁷	23 ⁹	26 ³⁹	7 ⁵⁰	8 ¹⁹	22 ⁷	26 ²⁴	S 21
M22	20 0 22	29 ²³ 59	21 ⁴¹	25 ⁷	4 ³	25 ¹²	19 ³⁸	2 ¹⁵	16 ⁵	23 ¹¹	26 ³⁸	7 ⁴⁹	8 ¹⁵	22 ¹³	26 ³⁰	M22
T 23	20 4 18	0 ¹² 21'19	3 ¹⁸ 33	25 ⁴¹	4 ¹⁷	25 ⁵¹	19 ³¹	2 ¹⁷	16 ²	23 ¹³	26 ³⁸	7 ⁴⁸	8 ¹²	22 ²⁰	26 ³⁶	T 23
W24	20 8 15	1 ¹⁸ 40	15 ²¹	26 ¹⁰	4 ³⁰	26 ³⁰	19 ²⁴	2 ¹⁹	16 ⁰	23 ¹⁵	26 ³⁷	7 ⁴⁷	8 ⁹	22 ²⁷	26 ⁴³	W24
T 25	20 12 12	2 ¹⁶ 03	27 ⁹	26 ³⁵	4 ⁴¹	27 ⁹	19 ¹⁷	2 ²⁰	15 ⁵⁸	23 ¹⁷	26 ³⁷	7 ⁴⁷	8 ⁶	22 ³³	26 ⁴⁹	T 25
F 26	20 16 8	3 ¹³ 25	8 ¹⁸ 57	26 ⁵⁶	4 ⁵⁰	27 ⁴⁷	19 ¹⁰	2 ²²	15 ⁵⁵	23 ²⁰	26 ³⁶	7 ⁴⁷	8 ³	22 ⁴⁰	26 ⁵⁶	F 26
S 27	20 20 5	4 ¹⁰ 49	20 ⁴⁹	27 ¹²	4 ⁵⁶	28 ²⁶	19 ²	2 ²⁴	15 ⁵³	23 ²²	26 ³⁶	7 ⁴⁷	7 ⁵⁹	22 ⁴⁷	27 ²	S 27
S 28	20 24 1	5 ⁸ 13	2 ¹⁷ 47	27 ²³	5 ¹	29 ⁵	18 ⁵⁵	2 ²⁷	15 ⁵¹	23 ²⁴	26 ³⁶	7 ⁴⁷	7 ⁵⁶	22 ⁵³	27 ⁹	S 28
M29	20 27 58	6 ⁵ 39	14 ⁵²	27 ³⁰	5 ¹⁸ 3	29 ⁴⁴	18 ⁴⁸	2 ²⁹	15 ⁴⁸	23 ²⁶	26 ³⁵	7 ⁴⁷	7 ⁵³	23 ⁰	27 ¹⁶	M29
T 30	20 31 54	7 ³ 04	27 ⁹	27 ¹⁸ 31	5 ²	0 ¹² 22	18 ⁴⁰	2 ³¹	15 ⁴⁶	23 ²⁸	26 ³⁵	7 ⁴⁷	7 ⁵⁰	23 ⁶	27 ²³	T 30
W31	20 35 51	8 ¹⁸ 03'1	9 ¹⁸ 40	27 ¹⁸ 27	5 ¹⁷ 0	1 ¹⁸ 1	18 ³²	2 ³¹	15 ⁴⁴	23 ³¹	26 ³⁵	7 ⁴⁷	7 ⁵⁴	23 ¹³	27 ¹⁷ 29	W31

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
M 1	23n 9	7n10	2s27	21n19	1n29	14n23	0n29	23n54	0n56	15s13	0s55	9s50	2n31	16s30	0s43	21n 8	0s29	6s27	13n23	18s18	17s56	23n42	0s39	3s 2	18s18	17s56	23n42	0s39	3s 2
T 2	23 4	1 43	3 22	20 52	1 23	14 1	0 22	23 51	0 56	15 14	0 55	9 50	2 31	16 31	0 43	21 8	0 29	6 27	13 23	18 17	17 57	23 40	0 40	3 2	18 17	17 57	23 40	0 40	3 2
W 3	23 0	3s55	4 9	20 24	1 17	13 40	0 15	23 48	0 57	15 16	0 56	9 51	2 30	16 32	0 43	21 7	0 29	6 28	13 22	18 17	17 58	23 38	0 41	3 1	18 17	17 58	23 38	0 41	3 1
T 4	22 55	9 31	4 45	19 56	1 10	13 19	0 7	23 44	0 57	15 17	0 56	9 51	2 30	16 32	0 43	21 7	0 29	6 28	13 22	18 17	17 59	23 36	0 42	3	18 17	17 59	23 36	0 42	3
F 5	22 49	14 53	5 8	19 27	1 2	12 57	0s 1	23 40	0 57	15 19	0 56	9 51	2 30	16 33	0 43	21 6	0 29	6 28	13 21	18 17	17 59	23 35	0 44	3 0	18 17	17 59	23 35	0 44	3 0
S 6	22 43	19 43	5 15	18 57	0 54	12 36	0 9	23 36	0 58	15 21	0 56	9 51	2 29	16 33	0 43	21 6	0 29	6 28	13 21	18 17	18 0	23 33	0 45	2 59	18 17	18 0	23 33	0 45	2 59
S 7	22 37	23 38	5 3	18 27	0 46	12 15	0 17	23 32	0 58	15 22	0 57	9 52	2 29	16 34	0 43	21 6	0 29	6 28	13 21	18 18	18 1	23 31	0 46	2 59	18 18	18 1	23 31	0 46	2 59
M 8	22 30	26 12	4 32	17 57	0 37	11 54	0 26	23 28	0 58	15 24	0 57	9 52	2 29	16 35	0 43	21 5	0 29	6 28	13 20	18 19	18 2	23 29	0 48	2 58	18 19	18 2	23 29	0 48	2 58
T 9	22 23	27 0	3 42	17 27	0 28	11 33	0 35	23 23	0 58	15 26	0 57	9 52	2 29	16 35	0 43	21 5	0 29	6 29	13 20	18 19	18 3	23 27	0 49	2 57	18 19	18 3	23 27	0 49	2 57
W10	22 16	25 49	2 36	16 56	0 18	11 12	0 44	23 19	0 59	15 28	0 57	9 53	2 28	16 36	0 43	21 5	0 29	6 29	13 19	18 20	18 4	23 25	0 51	2 56	18 20	18 4	23 25	0 51	2 56
T 11	22 8	22 43	1 18	16 25	0 8	10 52	0 53	23 14	0 59	15 30	0 57	9 53	2 28	16 36	0 43	21 4	0 29	6 29	13 19	18 20	18 4	23 23	0 53	2 56	18 20	18 4	23 23	0 53	2 56
F 12	22 0	18 3	0n 5	15 55	0s 3	10 31	1 3	23 9	0 59	15 32	0 58	9 54	2 28	16 37	0 43	21 4	0 29	6 29	13 18	18 20	18 5	23 22	0 54	2 55	18 20	18 5	23 22	0 54	2 55
S 13	21 52	12 19	1 26	15 25	0 14	10 11	1 13	23 3	1 0	15 34	0 58	9 54	2 28	16 38	0 43	21 4	0 29	6 30	13 18	18 20	18 6	23 20	0 56	2 55	18 20	18 6	23 20	0 56	2 55
S 14	21 43	6 1	2 40	14 54	0 25	9 51	1 23	22 58	1 0	15 36	0 58	9 55	2 27	16 38	0 43	21 3	0 29	6 30	13 17	18 20	18 7	23 18	0 57	2 54	18 20	18 7	23 18	0 57	2 54
M15	21 33	0n24	3 43	14 25	0 36	9 31	1 33	22 52	1 0	15 38	0 58	9 55	2 27	16 39	0 43	21 3	0 29	6 30	13 17	18 20	18 8	23 16	0 59	2 54	18 20	18 8	23 16	0 59	2 54
T 16	21 24	6 36	4 30	13 55	0 48	9 12	1 43	22 47	1 0	15 40	0 59	9 56	2 27	16 40	0 43	21 3	0 29	6 31	13 17	18 20	18 9	23 14	1 1	2 53	18 20	18 9	23 14	1 1	2 53
W17	21 14	12 19	5 1	13 26	1 0	8 53	1 54	22 41	1 1	15 42	0 59	9 56	2 26	16 40	0 43	21 2	0 29	6 31	13 16	18 19	18 9	23 12	1 3	2 53	18 19	18 9	23 12	1 3	2 53
T 18	21 3	17 19	5 15	12 58	1 12	8 34	2 5	22 35	1 1	15 45	0 59	9 57	2 26	16 41	0 43	21 2	0 29	6 31	13 16	18 19	18 10	23 10	1 5	2 52	18 19	18 10	23 10	1 5	2 52
F 19	20 53	21 25	5 14	12 31	1 25	8 15	2 16	22 28	1 1	15 47	0 59	9 58	2 26	16 42	0 43	21 1	0 29	6 32	13 15	18 20	18 11	23 8	1 6	2 51	18 20	18 11	23 8	1 6	2 51
S 20	20 42	24 29	4 58	12 4	1 37	7 57	2 28	22 22	1 2	15 49	0 59	9 58	2 26	16 42	0 43	21 1	0 29	6 32	13 15	18 20	18 12	23 6	1 8	2 51	18 20	18 12	23 6	1 8	2 51
S 21	20 30	26 22	4 29	11 38	1 50	7 40	2 40	22 15	1 2	15 52	1 0	9 59	2 25	16 43	0 43	21 1	0 29	6 32	13 14	18 20	18 13	23 5	1 10	2 50	18 20	18 13	23 5	1 10	2 50
M22	20 18	27 1	3 49	11 14	2 3	7 22	2 52	22 9	1 2	15 54	1 0	10 0	2 25	16 44	0 43	21 0	0 29	6 33	13 14	18 20	18 14	23 3	1 12	2 50	18 20	18 14	23 3	1 12	2 50
T 23	20 6	26 24	2 59	10 50	2 16	7 6	3 4	22 2	1 2	15 56	1 0	10 1	2 25	16 44	0 43	21 0	0 29	6 33	13 13	18 21	18 14	23 1	1 14	2 49	18 21	18 14	23 1	1 14	2 49
W24	19 54	24 36	2 1	10 28	2 29	6 50	3 16	21 55	1 3	15 59	1 0	10 2	2 25	16 45	0 43	21 0	0 29	6 33	13 13	18 21	18 15	22 59	1 16	2 49	18 21	18 15	22 59	1 16	2 49
T 25	19 41	21 43	0 59	10 8	2 42	6 34	3 29	21 47	1 3	16 1	1 0	10 3	2 24	16 46	0 43	20 59	0 29	6 34	13 12	18 21	18 16	22 57	1 18	2 48	18 21	18 16	22 57	1 18	2 48
F 26	19 28	17 56	0s 7	9 48	2 55	6 19	3 41	21 40	1 3	16 3	1 1	10 4	2 24	16 46	0 43	20 59	0 29	6 34	13 12	18 21	18 17	22 55	1 20	2 48	18 21	18 17	22 55	1 20	2 48
S 27	19 14	13 26	1 12	9 31	3 8	6 5	3 54	21 32	1 3	16 6	1 1	10 4	2 24	16 47	0 43	20 59	0 29	6 34	13 11	18 21	18 18	22 53	1 22	2 47	18 21	18 18	22 53	1 22	2 47
S 28	19 1	8 24	2 15	9 16	3 20	5 51	4 7	21 25	1 4	16 8	1 1	10 5	2 24	16 48	0 43	20 58	0 29	6 35	13 11	18 21	18 19	22 51	1 25	2 46	18 21	18 19	22 51	1 25	2 46
M29	18 47	3 1	3 12	9 2	3 32	5 38	4 20	21 17	1 4	16 11	1 1	10 6	2 23	16 49	0 43	20 58	0 29	6 35	13 10	18 21	18 19	22 49	1 27	2 46	18 21	18 19	22 49	1 27	2 46
T 30	18 32	2s33	4 1	8 51	3 44	5 26	4 33	21 9	1 4	16 13	1 1	10 8	2 23	16 49	0 43	20 57	0 29	6 36	13 10	18 21	18 20	22 47	1 29	2 45	18 21	18 20	22 47	1 29	2 45
W31	18n17	8s 8	4s40	8n42	3s55	5n15	4s47	21n 0	1n 4	16s16	1s 1	10s 9	2n23	16s50	0s43	20n57	0s29	6s36	13n 9	18s21	18s21	22n45	1s31	2s45	18s21	18s21	22n45	1s31	2s45

ASTRODIENST EPHEMERIS for the year 1748
geocentric

AUGUST 1748

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	20 39 47	8♌57°58	22♊27	27°R18	4°R55	1♌39	18°R25	2♎36	15°R41	23♏33	26°R35	7°R47	7♋44	23♏20	27♎36	T 1
F 2	20 43 44	9°55'26	5♎34	27♊ 3	4♎48	2°18	18♋17	2°39	15♋39	23°35	26♎35	7°D47	7°40	23°26	27°43	F 2
S 3	20 47 41	10°52'55	19° 3	26°43	4°38	2°57	18°10	2°41	15°37	23°37	26°34	7♋47	7°37	23°33	27°50	S 3
S 4	20 51 37	11°50'25	2♊56	26°18	4°26	3°35	18° 2	2°44	15°34	23°39	26°34	7°47	7°34	23°40	27°57	S 4
M 5	20 55 34	12°47'55	17°12	25°49	4°11	4°14	17°54	2°47	15°32	23°41	26°34	7°48	7°31	23°46	28° 5	M 5
T 6	20 59 30	13°45'27	1♊50	25°14	3°54	4°52	17°46	2°50	15°29	23°43	26°34	7°48	7°28	23°53	28°12	T 6
W 7	21 3 27	14°42'59	16°44	24°35	3°35	5°31	17°38	2°53	15°27	23°46	26°D34	7°49	7°25	24° 0	28°19	W 7
T 8	21 7 23	15°40'32	1♋49	23°53	3°14	6° 9	17°31	2°56	15°25	23°48	26°34	7°R49	7°21	24° 6	28°27	T 8
F 9	21 11 20	16°38'06	16°55	23° 7	2°50	6°48	17°23	3° 0	15°22	23°50	26°34	7°49	7°18	24°13	28°34	F 9
S 10	21 15 16	17°35'42	1♋54	22°19	2°25	7°26	17°15	3° 3	15°20	23°52	26°34	7°48	7°15	24°20	28°41	S 10
S 11	21 19 13	18°33'19	16°38	21°29	1°57	8° 5	17° 7	3° 6	15°18	23°54	26°35	7°48	7°12	24°26	28°49	S 11
M12	21 23 10	19°30'57	0♊59	20°38	1°28	8°43	16°59	3°10	15°15	23°56	26°35	7°46	7° 9	24°33	28°56	M12
T 13	21 27 6	20°28'36	14°55	19°48	0°57	9°21	16°51	3°13	15°13	23°58	26°35	7°45	7° 5	24°40	29° 4	T 13
W14	21 31 3	21°26'17	28°24	18°59	0°24	10° 0	16°44	3°17	15°10	24° 0	26°35	7°43	7° 2	24°46	29°12	W14
T 15	21 34 59	22°24'00	11♊27	18°12	29♌50	10°38	16°36	3°21	15° 8	24° 2	26°35	7°42	6°59	24°53	29°19	T 15
F 16	21 38 56	23°21'45	24° 7	17°28	29°15	11°17	16°28	3°24	15° 6	24° 4	26°36	7°D42	6°56	25° 0	29°27	F 16
S 17	21 42 52	24°19'31	6♊27	16°48	28°39	11°55	16°20	3°28	15° 3	24° 6	26°36	7°43	6°53	25° 6	29°35	S 17
S 18	21 46 49	25°17'19	18°32	16°14	28° 3	12°33	16°13	3°32	15° 1	24° 8	26°36	7°44	6°50	25°13	29°43	S 18
M19	21 50 45	26°15'08	0♊27	15°45	27°26	13°12	16° 5	3°36	14°59	24°10	26°37	7°45	6°46	25°19	29°51	M19
T 20	21 54 42	27°13'00	12°16	15°23	26°49	13°50	15°57	3°41	14°56	24°12	26°37	7°47	6°43	25°26	29°59	T 20
W21	21 58 39	28°10'53	24° 3	15° 8	26°11	14°28	15°50	3°45	14°54	24°14	26°38	7°48	6°40	25°33	0♊ 7	W21
T 22	22 2 35	29° 8'47	5♌52	15°D 0	25°35	15° 6	15°42	3°49	14°52	24°16	26°38	7°R48	6°37	25°39	0°15	T 22
F 23	22 6 32	0♎ 6'43	17°45	15° 0	24°58	15°45	15°35	3°53	14°49	24°18	26°39	7°48	6°34	25°46	0°23	F 23
S 24	22 10 28	1° 4'41	29°45	15° 8	24°23	16°23	15°28	3°58	14°47	24°20	26°39	7°47	6°31	25°53	0°31	S 24
S 25	22 14 25	2° 2'40	11♎54	15°25	23°48	17° 1	15°21	4° 2	14°45	24°21	26°40	7°44	6°27	25°59	0°39	S 25
M26	22 18 21	3° 0'41	24°14	15°49	23°14	17°39	15°13	4° 7	14°43	24°23	26°40	7°40	6°24	26° 6	0°47	M26
T 27	22 22 18	3°58'43	6♊45	16°22	22°42	18°17	15° 6	4°11	14°40	24°25	26°41	7°36	6°21	26°13	0°56	T 27
W28	22 26 14	4°56'47	19°29	17° 3	22°12	18°56	14°59	4°16	14°38	24°27	26°42	7°32	6°18	26°19	1° 4	W28
T 29	22 30 11	5°54'53	2♎27	17°51	21°43	19°34	14°52	4°21	14°36	24°29	26°43	7°28	6°15	26°26	1°12	T 29
F 30	22 34 8	6°53'00	15°40	18°47	21°16	20°12	14°46	4°26	14°34	24°30	26°43	7°25	6°11	26°33	1°21	F 30
S 31	22 38 4	7♎51°08	29♎10	19♌50	20♌50	20♌50	14♋39	4♎31	14♋32	24♏32	26♎44	7♋24	6♋ 8	26♏39	1♊29	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
T 1	18n 2	13s29	5s 6	8n35	4s 6	5n 4	5s 0	20n52	1n 5	16s18	1s 2	10s10	2n23	16s51	0s43	20n57	0s29	6s37	13n 9	18s21	18s22	22n43	1s34	2s44	
F 2	17 47	18 23	5 17	8 31	4 15	4 54	5 13	20 44	1 5	16 21	1 2	10 11	2 22	16 51	0 43	20 56	0 29	6 37	13 8	18 21	18 23	22 41	1 36	2 44	
S 3	17 32	22 30	5 12	8 29	4 24	4 45	5 26	20 35	1 5	16 23	1 2	10 12	2 22	16 52	0 43	20 56	0 29	6 38	13 8	18 21	18 23	22 39	1 38	2 43	
S 4	17 16	25 29	4 48	8 30	4 32	4 38	5 40	20 26	1 5	16 26	1 2	10 13	2 22	16 53	0 43	20 56	0 29	6 38	13 7	18 21	18 24	22 37	1 41	2 43	
M 5	17 0	26 56	4 6	8 34	4 38	4 31	5 53	20 17	1 5	16 29	1 2	10 14	2 21	16 54	0 43	20 55	0 29	6 38	13 7	18 21	18 25	22 35	1 43	2 42	
T 6	16 43	26 35	3 7	8 41	4 43	4 25	6 5	20 8	1 6	16 31	1 2	10 16	2 21	16 54	0 43	20 55	0 29	6 39	13 6	18 21	18 26	22 33	1 45	2 42	
W 7	16 27	24 19	1 54	8 50	4 47	4 20	6 18	19 59	1 6	16 34	1 2	10 17	2 21	16 55	0 43	20 55	0 29	6 39	13 6	18 21	18 27	22 31	1 48	2 41	
T 8	16 10	20 20	0 33	9 2	4 49	4 16	6 30	19 50	1 6	16 36	1 3	10 18	2 21	16 56	0 43	20 54	0 29	6 40	13 5	18 20	18 28	22 29	1 50	2 41	
F 9	15 52	14 59	0n50	9 16	4 49	4 13	6 42	19 40	1 6	16 39	1 3	10 20	2 21	16 56	0 43	20 54	0 29	6 41	13 5	18 20	18 28	22 27	1 53	2 40	
S 10	15 35	8 48	2 10	9 33	4 48	4 11	6 54	19 31	1 7	16 41	1 3	10 21	2 20	16 57	0 43	20 54	0 29	6 41	13 4	18 21	18 29	22 25	1 55	2 40	
S 11	15 17	2 14	3 19	9 52	4 44	4 11	7 5	19 21	1 7	16 44	1 3	10 22	2 20	16 58	0 43	20 53	0 29	6 42	13 4	18 21	18 30	22 23	1 58	2 39	
M12	14 59	4n17	4 14	10 13	4 39	4 11	7 15	19 11	1 7	16 46	1 3	10 24	2 20	16 59	0 43	20 53	0 29	6 42	13 3	18 21	18 31	22 21	2 0	2 39	
T 13	14 41	10 22	4 52	10 35	4 32	4 13	7 25	19 1	1 7	16 49	1 3	10 25	2 20	16 59	0 43	20 52	0 29	6 43	13 3	18 22	18 32	22 19	2 3	2 38	
W14	14 23	15 47	5 13	10 59	4 23	4 15	7 35	18 51	1 7	16 51	1 3	10 27	2 19	17 0	0 43	20 52	0 29	6 43	13 2	18 22	18 32	22 17	2 6	2 38	
T 15	14 4	20 17	5 16	11 23	4 13	4 19	7 43	18 41	1 8	16 53	1 3	10 28	2 19	17 1	0 43	20 52	0 29	6 44	13 2	18 22	18 33	22 15	2 8	2 38	
F 16	13 45	23 44	5 4	11 48	4 0	4 23	7 51	18 30	1 8	16 56	1 3	10 30	2 19	17 1	0 43	20 51	0 29	6 44	13 1	18 22	18 34	22 13	2 11	2 37	
S 17	13 26	25 59	4 38	12 13	3 47	4 28	7 58	18 20	1 8	16 58	1 4	10 31	2 19	17 2	0 43	20 51	0 29	6 45	13 1	18 22	18 35	22 11	2 14	2 37	
S 18	13 7	26 58	4 0	12 38	3 32	4 35	8 5	18 9	1 8	17 1	1 4	10 33	2 18	17 3	0 43	20 51	0 29	6 45	13 0	18 22	18 36	22 9	2 16	2 36	
M19	12 47	26 40	3 12	13 1	3 15	4 42	8 10	17 58	1 8	17 3	1 4	10 34	2 18	17 3	0 43	20 50	0 29	6 46	13 0	18 21	18 36	22 7	2 19	2 36	
T 20	12 27	25 10	2 16	13 24	2 59	4 50	8 15	17 48	1 9	17 5	1 4	10 36	2 18	17 4	0 43	20 50	0 29	6 47	12 59	18 21	18 37	22 5	2 22	2 35	
W21	12 7	22 34	1 15	13 45	2 41	4 59	8 19	17 37	1 9	17 8	1 4	10 37	2 18	17 5	0 43	20 50	0 29	6 47	12 59	18 21	18 38	22 2	2 25	2 35	
T 22	11 47	19 0	0 11	14 5	2 23	5 8	8 21	17 25	1 9	17 10	1 4	10 39	2 17	17 5	0 43	20 49	0 29	6 48	12 58	18 21	18 39	22 0	2 28	2 34	
F 23	11 27	14 40	0s55	14 22	2 5	5 18	8 23	17 14	1 9	17 12	1 4	10 41	2 17	17 6	0 43	20 49	0 29	6 48	12 58	18 21	18 40	21 58	2 30	2 34	
S 24	11 6	9 44	1 58	14 37	1 46	5 28	8 25	17 3	1 9	17 14	1 4	10 42	2 17	17 7	0 43	20 49	0 29	6 49	12 57	18 21	18 40	21 56	2 33	2 34	
S 25	10 46	4 23	2 57	14 50	1 28	5 39	8 25	16 52	1 9	17 17	1 4	10 44	2 17	17 7	0 43	20 48	0 29	6 50	12 57	18 22	18 41	21 54	2 36	2 33	
M26	10 25	1s12	3 48	15 0	1 10	5 51	8 24	16 40	1 10	17 19	1 4	10 46	2 17	17 8	0 43	20 48	0 29	6 50	12 56	18 23	18 42	21 52	2 39	2 33	
T 27	10 4	6 48	4 29	15 7	0 53	6 2	8 22	16 28	1 10	17 21	1 4	10 48	2 16	17 9	0 43	20 48	0 29	6 51	12 55	18 24	18 43	21 50	2 42	2 32	
W28	9 43	12 14	4 58	15 11	0 36	6 14	8 20	16 17	1 10	17 23	1 4	10 49	2 16	17 9	0 43	20 47	0 29	6 52	12 55	18 25	18 44	21 48	2 45	2 32	
T 29	9 21	17 13	5 12	15 12	0 19	6 26	8 17	16 5	1 10	17 25	1 4	10 51	2 16	17 10	0 43	20 47	0 29	6 52	12 54	18 26	18 44	21 46	2 48	2 32	
F 30	9 0	21 30	5 10	15 9	0 4	6 38	8 13	15 53	1 10	17 27	1 4	10 53	2 16	17 11	0 43	20 47	0 29	6 53	12 54	18 27	18 45	21 43	2 51	2 31	
S 31	8n38	24s44	4s51	15n 4	0n11	6n51	8s 8	15n41	1n10	17s29	1s 4	10s55	2n16	17s11	0s43	20n47	0s29	6s54	12n53	18s27	18s46	21n41	2s54	2s31	

Julian Day Number = 2359716.5, Delta T = 15.60 sec
Ecliptic obliquity = 23°28'25", Nutation = 0°00'14", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 21°13'49", Lahiri = 20°20'49"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1748

geocentric

SEPTEMBER 1748

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 42 1	8 ^h 49'18	12 ^h 56	21 ^h 0	20 ^h R27	21 ^h 028	14 ^h R33	4 ^h 36	14 ^h R30	24 ^h 34	26 ^h 45	7 ^h D23	6 ^h 5	26 ^h 46	1 ^h 37	S 1
M 2	22 45 57	9 ^h 47'29	26 ^h 59	22 ^h 16	20 ^h L 7	22 ^h 6	14 ^h 26	4 ^h 41	14 ^h 28	24 ^h 36	26 ^h 46	7 ^h 24	6 ^h 2	26 ^h 53	1 ^h 46	M 2
T 3	22 49 54	10 ^h 45'42	11 ^h 319	23 ^h 37	19 ^h 48	22 ^h 44	14 ^h 20	4 ^h 46	14 ^h 25	24 ^h 37	26 ^h 47	7 ^h 26	5 ^h 59	26 ^h 59	1 ^h 54	T 3
W 4	22 53 50	11 ^h 43'56	25 ^h 52	25 ^h 4	19 ^h 32	23 ^h 22	14 ^h 14	4 ^h 51	14 ^h 23	24 ^h 39	26 ^h 48	7 ^h 27	5 ^h 56	27 ^h 6	2 ^h 3	W 4
T 5	22 57 47	12 ^h 42'11	10 ^h 36	26 ^h 36	19 ^h 18	24 ^h 0	14 ^h 8	4 ^h 56	14 ^h 21	24 ^h 40	26 ^h 49	7 ^h R27	5 ^h 52	27 ^h 12	2 ^h 11	T 5
F 6	23 1 43	13 ^h 40'29	25 ^h 25	28 ^h 12	19 ^h 6	24 ^h 38	14 ^h 2	5 ^h 2	14 ^h 19	24 ^h 42	26 ^h 50	7 ^h 26	5 ^h 49	27 ^h 19	2 ^h 20	F 6
S 7	23 5 40	14 ^h 38'48	10 ^h 11	29 ^h 51	18 ^h 57	25 ^h 16	13 ^h 56	5 ^h 7	14 ^h 17	24 ^h 44	26 ^h 51	7 ^h 23	5 ^h 46	27 ^h 26	2 ^h 28	S 7
S 8	23 9 37	15 ^h 37'08	24 ^h 47	1 ^h 34	18 ^h 50	25 ^h 54	13 ^h 51	5 ^h 13	14 ^h 15	24 ^h 45	26 ^h 52	7 ^h 19	5 ^h 43	27 ^h 32	2 ^h 37	S 8
M 9	23 13 33	16 ^h 35'31	9 ^h 7	3 ^h 19	18 ^h 46	26 ^h 32	13 ^h 45	5 ^h 18	14 ^h 14	24 ^h 47	26 ^h 53	7 ^h 13	5 ^h 40	27 ^h 39	2 ^h 46	M 9
T 10	23 17 30	17 ^h 33'55	23 ^h 4	5 ^h 6	18 ^h D44	27 ^h 10	13 ^h 40	5 ^h 24	14 ^h 12	24 ^h 48	26 ^h 54	7 ^h 6	5 ^h 36	27 ^h 46	2 ^h 54	T 10
W11	23 21 26	18 ^h 32'22	6 ^h 36	6 ^h 55	18 ^h 45	27 ^h 48	13 ^h 35	5 ^h 29	14 ^h 10	24 ^h 50	26 ^h 55	7 ^h 0	5 ^h 33	27 ^h 52	3 ^h 3	W11
T 12	23 25 23	19 ^h 30'51	19 ^h 43	8 ^h 45	18 ^h 48	28 ^h 26	13 ^h 30	5 ^h 35	14 ^h 8	24 ^h 51	26 ^h 56	6 ^h 55	5 ^h 30	27 ^h 59	3 ^h 12	T 12
F 13	23 29 19	20 ^h 29'22	2 ^h 11	10 ^h 37	18 ^h 53	29 ^h 4	13 ^h 25	5 ^h 41	14 ^h 6	24 ^h 53	26 ^h 57	6 ^h 52	5 ^h 27	28 ^h 6	3 ^h 20	F 13
S 14	23 33 16	21 ^h 27'55	14 ^h 47	12 ^h 28	19 ^h 0	29 ^h 42	13 ^h 20	5 ^h 46	14 ^h 4	24 ^h 54	26 ^h 59	6 ^h 50	5 ^h 24	28 ^h 12	3 ^h 29	S 14
S 15	23 37 12	22 ^h 26'31	26 ^h 53	14 ^h 20	19 ^h 10	0 ^h 20	13 ^h 16	5 ^h 52	14 ^h 3	24 ^h 55	27 ^h 0	6 ^h D50	5 ^h 21	28 ^h 19	3 ^h 38	S 15
M16	23 41 9	23 ^h 25'08	8 ^h 47	16 ^h 13	19 ^h 22	0 ^h 58	13 ^h 11	5 ^h 58	14 ^h 1	24 ^h 57	27 ^h 1	6 ^h 51	5 ^h 17	28 ^h 26	3 ^h 47	M16
T 17	23 45 6	24 ^h 23'48	20 ^h 36	18 ^h 5	19 ^h 36	1 ^h 36	13 ^h 7	6 ^h 4	13 ^h 59	24 ^h 58	27 ^h 3	6 ^h 52	5 ^h 14	28 ^h 32	3 ^h 55	T 17
W18	23 49 2	25 ^h 22'30	2 ^h 02	19 ^h 56	19 ^h 52	2 ^h 14	13 ^h 3	6 ^h 10	13 ^h 58	24 ^h 59	27 ^h 4	6 ^h R53	5 ^h 11	28 ^h 39	4 ^h 4	W18
T 19	23 52 59	26 ^h 21'15	14 ^h 14	21 ^h 48	20 ^h 10	2 ^h 52	12 ^h 59	6 ^h 16	13 ^h 56	25 ^h 1	27 ^h 5	6 ^h 53	5 ^h 8	28 ^h 46	4 ^h 13	T 19
F 20	23 56 55	27 ^h 20'01	26 ^h 13	23 ^h 39	20 ^h 29	3 ^h 30	12 ^h 56	6 ^h 22	13 ^h 55	25 ^h 2	27 ^h 7	6 ^h 51	5 ^h 5	28 ^h 52	4 ^h 22	F 20
S 21	0 0 52	28 ^h 18'49	8 ^h 23	25 ^h 29	20 ^h 51	4 ^h 8	12 ^h 52	6 ^h 28	13 ^h 53	25 ^h 3	27 ^h 8	6 ^h 46	5 ^h 2	28 ^h 59	4 ^h 30	S 21
S 22	0 4 48	29 ^h 17'40	20 ^h 46	27 ^h 18	21 ^h 15	4 ^h 45	12 ^h 49	6 ^h 34	13 ^h 52	25 ^h 4	27 ^h 10	6 ^h 40	4 ^h 58	29 ^h 5	4 ^h 39	S 22
M23	0 8 45	0 ^h 16'32	3 ^h 13	29 ^h 7	21 ^h 40	5 ^h 23	12 ^h 46	6 ^h 41	13 ^h 50	25 ^h 6	27 ^h 11	6 ^h 31	4 ^h 55	29 ^h 12	4 ^h 48	M23
T 24	0 12 41	1 ^h 15'27	16 ^h 14	0 ^h 55	22 ^h 7	6 ^h 1	12 ^h 43	6 ^h 47	13 ^h 49	25 ^h 7	27 ^h 13	6 ^h 22	4 ^h 52	29 ^h 19	4 ^h 57	T 24
W25	0 16 38	2 ^h 14'23	29 ^h 20	2 ^h 42	22 ^h 35	6 ^h 39	12 ^h 40	6 ^h 53	13 ^h 48	25 ^h 8	27 ^h 14	6 ^h 12	4 ^h 49	29 ^h 25	5 ^h 6	W25
T 26	0 20 34	3 ^h 13'22	12 ^h 38	4 ^h 28	23 ^h 5	7 ^h 17	12 ^h 38	7 ^h 0	13 ^h 46	25 ^h 9	27 ^h 16	6 ^h 3	4 ^h 46	29 ^h 32	5 ^h 15	T 26
F 27	0 24 31	4 ^h 12'22	26 ^h 7	6 ^h 14	23 ^h 36	7 ^h 54	12 ^h 36	7 ^h 6	13 ^h 45	25 ^h 10	27 ^h 17	5 ^h 55	4 ^h 42	29 ^h 39	5 ^h 23	F 27
S 28	0 28 28	5 ^h 11'25	9 ^h 47	7 ^h 58	24 ^h 9	8 ^h 32	12 ^h 33	7 ^h 12	13 ^h 44	25 ^h 11	27 ^h 19	5 ^h 50	4 ^h 39	29 ^h 45	5 ^h 32	S 28
S 29	0 32 24	6 ^h 10'29	23 ^h 36	9 ^h 42	24 ^h 44	9 ^h 10	12 ^h 32	7 ^h 19	13 ^h 43	25 ^h 12	27 ^h 21	5 ^h 47	4 ^h 36	29 ^h 52	5 ^h 41	S 29
M30	0 36 21	7 ^h 9'35	7 ^h 35	11 ^h 25	25 ^h 19	9 ^h 48	12 ^h 30	7 ^h 26	13 ^h 42	25 ^h 13	27 ^h 22	5 ^h D47	4 ^h 33	29 ^h 59	5 ^h 50	M30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	
S 1	8n16	26s36	4s15	14n54	0n25	7n 3	8s 3	15n29	1n11	17s31	1s 4	10s57	2n15	17s12	0s43	20n46	0s29	6s54	12n53	18s27	18s47	21n39	2s57	2s30
M 2	7 55	26 50	3 23	14 42	0 37	7 15	7 57	15 17	1 11	17 33	1 4	10 59	2 15	17 12	0 43	20 46	0 29	6 55	12 52	18 27	18 47	21 37	3 0	2 30
T 3	7 33	25 17	2 18	14 26	0 49	7 27	7 51	15 4	1 11	17 35	1 4	11 1	2 15	17 13	0 43	20 46	0 29	6 56	12 52	18 26	18 48	21 35	3 3	2 30
W 4	7 10	22 2	1 3	14 7	1 0	7 38	7 44	14 52	1 11	17 36	1 4	11 2	2 15	17 14	0 43	20 45	0 29	6 56	12 51	18 26	18 49	21 33	3 6	2 29
T 5	6 48	17 20	0n17	13 45	1 9	7 50	7 36	14 39	1 11	17 38	1 4	11 4	2 15	17 14	0 43	20 45	0 29	6 57	12 51	18 26	18 50	21 31	3 9	2 29
F 6	6 26	11 33	1 36	13 20	1 18	8 1	7 28	14 27	1 11	17 40	1 4	11 6	2 14	17 15	0 43	20 45	0 29	6 58	12 50	18 26	18 51	21 28	3 12	2 29
S 7	6 3	5 9	2 49	12 52	1 25	8 11	7 20	14 14	1 11	17 42	1 4	11 8	2 14	17 15	0 43	20 44	0 29	6 58	12 50	18 27	18 51	21 26	3 15	2 28
S 8	5 41	1n26	3 49	12 22	1 32	8 22	7 11	14 1	1 12	17 43	1 4	11 10	2 14	17 16	0 43	20 44	0 29	6 59	12 50	18 28	18 52	21 24	3 18	2 28
M 9	5 18	7 49	4 34	11 49	1 37	8 32	7 2	13 49	1 12	17 45	1 4	11 12	2 14	17 16	0 43	20 44	0 29	7 0	12 49	18 30	18 53	21 22	3 21	2 27
T 10	4 55	13 38	5 1	11 13	1 41	8 41	6 53	13 36	1 12	17 46	1 4	11 14	2 14	17 17	0 43	20 44	0 29	7 0	12 49	18 31	18 54	21 20	3 24	2 27
W11	4 32	18 37	5 10	10 36	1 45	8 50	6 43	13 23	1 12	17 48	1 4	11 16	2 13	17 17	0 43	20 43	0 29	7 1	12 48	18 33	18 55	21 18	3 27	2 27
T 12	4 9	22 32	5 2	9 57	1 47	8 58	6 33	13 10	1 12	17 49	1 4	11 18	2 13	17 18	0 43	20 43	0 29	7 2	12 48	18 34	18 55	21 15	3 31	2 26
F 13	3 46	25 15	4 40	9 17	1 49	9 6	6 23	12 56	1 12	17 50	1 4	11 20	2 13	17 18	0 43	20 43	0 29	7 3	12 47	18 35	18 56	21 13	3 34	2 26
S 14	3 23	26 40	4 5	8 35	1 50	9 13	6 13	12 43	1 12	17 52	1 4	11 22	2 13	17 19	0 43	20 43	0 29	7 3	12 47	18 36	18 57	21 11	3 37	2 26
S 15	3 0	26 46	3 20	7 51	1 50	9 20	6 3	12 30	1 12	17 53	1 4	11 25	2 13	17 19	0 43	20 42	0 29	7 4	12 46	18 36	18 58	21 9	3 40	2 25
M16	2 37	25 37	2 26	7 7	1 49	9 26	5 53	12 17	1 13	17 54	1 4	11 27	2 13	17 20	0 43	20 42	0 29	7 5	12 46	18 35	18 58	21 7	3 43	2 25
T 17	2 14	23 20	1 27	6 22	1 48	9 32	5 43	12 3	1 13	17 55	1 4	11 29	2 12	17 20	0 43	20 42	0 29	7 6	12 45	18 35	18 59	21 4	3 46	2 25
W18	1 50	20 3	0 24	5 37	1 46	9 37	5 32	11 50	1 13	17 56	1 4	11 31	2 12	17 21	0 43	20 42	0 29	7 6	12 45	18 35	19 0	21 2	3 50	2 24
T 19	1 27	15 57	0s40	4 51	1 43	9 41	5 22	11 36	1 13	17 57	1 4	11 33	2 12	17 21	0 43	20 41	0 29	7 7	12 44	18 35	19 1	21 0	3 53	2 24
F 20	1 4	11 11	1 42	4 4	1 40	9 45	5 12	11 22	1 13	17 58	1 4	11 35	2 12	17 22	0 43	20 41	0 29	7 8	12 44	18 35	19 1	20 58	3 56	2 24
S 21	0 40	5 57	2 41	3 17	1 37	9 48	5 1	11 9	1 13	17 59	1 4	11 37	2 12	17 22	0 43	20 41	0 29	7 8	12 44	18 36	19 2	20 55	3 59	2 23
S 22	0 17	0 24	3 33	2 30	1 33	9 50	4 51	10 55	1 13	18 0	1 4	11 39	2 12	17 22	0 43	20 41	0 29	7 9	12 43	18 38	19 3	20 53	4 2	2 23
M23	0s 7	5s16	4 16	1 43	1 29	9 52	4 41	10 41	1 13	18 1	1 3	11 42	2 12	17 23	0 43	20 41	0 29	7 10	12 43	18 40	19 4	20 51	4 6	2 23
T 24	0 30	10 48	4 47	0 55	1 29	9 54	4 30	10 27	1 13	18 2	1 3	11 44	2 11	17 23	0 43	20 40	0 29	7 11	12 42	18 43	19 5	20 49	4 9	2 22
W25	0 54	15 58	5 3	0 8	1 14	9 54	4 20	10 13	1 13	18 3	1 3	11 46	2 11	17 24	0 43	20 40	0 29	7 11	12 42	18 45	19 5	20 46	4 12	2 22
T 26	1 17	20 27	5 3	0s39	1 14	9 54	4 10	9 59	1 14	18 3	1 3	11 48	2 11	17 24	0 43	20 40	0 29	7 12	12 41	18 47	19 6	20 44	4 15	2 22
F 27	1 40	23 57	4 47	1 26	1 9	9 53	4 0	9 45	1 14	18 4	1 3	11 50	2 11	17 24	0 43	20 40	0 29	7 13	12 41	18 49	19 7	20 42	4 19	2 22
S 28	2 4	26 8	4 14	2 12	1 3	9 52	3 50	9 31	1 14	18 4	1 3	11 53	2 11	17 25	0 43	20 40	0 29	7 14	12 41	18 50	19 8	20 40	4 22	2 21
S 29	2 27	26 44	3 26	2 58	0 57	9 50	3 40	9 17	1 14	18 5	1 3	11 55	2 11	17 25	0 43	20 39	0 29	7 14	12 40	18 51	19 8	20 37	4 25	2 21
M30	2s51	25s40	2s25	3s44	0n51	9n48	3s30	9n 3	1n14	18s 5	1s 3	11s57	2n11	17s25	0s43	20n39	0s29	7s15	12n40	18s51	19s 9	20n35	4s28	2s21

ASTRODIENST EPHEMERIS for the year 1748
geocentric

OCTOBER 1748

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	0 40 17	8♌ 8'42	21♌41	13♌ 7	25♌56	10♍25	12°R28	7♎32	13°R40	25♏14	27♎24	5♐47	4♑30	0♒ 5	5♓59	T 1
W 2	0 44 14	9° 7'51	5♌56	14°48	26°34	11° 3	12♌27	7°39	13♌39	25°15	27°26	5°R47	4°27	0°12	6° 8	W 2
T 3	0 48 10	10° 7'02	20°16	16°29	27°14	11°41	12°26	7°45	13°38	25°15	27°27	5°47	4°23	0°19	6°17	T 3
F 4	0 52 7	11° 6'15	4♌39	18° 8	27°54	12°19	12°25	7°52	13°37	25°16	27°29	5°44	4°20	0°25	6°25	F 4
S 5	0 56 3	12° 5'30	19° 1	19°47	28°36	12°56	12°24	7°59	13°37	25°17	27°31	5°38	4°17	0°32	6°34	S 5
S 6	1 0 0	13° 4'46	3♍17	21°25	29°18	13°34	12°24	8° 5	13°36	25°18	27°33	5°30	4°14	0°38	6°43	S 6
M 7	1 3 57	14° 4'04	17°21	23° 2	0♍ 2	14°12	12°23	8°12	13°35	25°19	27°35	5°19	4°11	0°45	6°52	M 7
T 8	1 7 53	15° 3'25	1♌ 8	24°39	0°47	14°49	12°D23	8°19	13°34	25°19	27°37	5° 8	4° 8	0°52	7° 1	T 8
W 9	1 11 50	16° 2'48	14°34	26°15	1°33	15°27	12°23	8°26	13°33	25°20	27°38	4°56	4° 4	0°58	7°10	W 9
T 10	1 15 46	17° 2'13	27°38	27°50	2°19	16° 5	12°24	8°33	13°33	25°21	27°40	4°46	4° 1	1° 5	7°18	T 10
F 11	1 19 43	18° 1'40	10♌20	29°24	3° 7	16°42	12°24	8°39	13°32	25°21	27°42	4°39	3°58	1°12	7°27	F 11
S 12	1 23 39	19° 1'10	22°43	0♍58	3°55	17°20	12°25	8°46	13°32	25°22	27°44	4°33	3°55	1°18	7°36	S 12
S 13	1 27 36	20° 0'41	4♌49	2°31	4°45	17°57	12°26	8°53	13°31	25°22	27°46	4°30	3°52	1°25	7°45	S 13
M14	1 31 32	21° 0'15	16°44	4° 4	5°35	18°35	12°27	9° 0	13°31	25°23	27°48	4°D29	3°48	1°32	7°53	M14
T 15	1 35 29	21°59'52	28°32	5°36	6°26	19°13	12°28	9° 7	13°30	25°23	27°50	4°R29	3°45	1°38	8° 2	T 15
W16	1 39 26	22°59'31	10♌20	7° 7	7°17	19°50	12°29	9°14	13°30	25°24	27°52	4°29	3°42	1°45	8°11	W16
T 17	1 43 22	23°59'11	22°13	8°38	8°10	20°28	12°31	9°21	13°29	25°24	27°54	4°28	3°39	1°52	8°19	T 17
F 18	1 47 19	24°58'54	4♍16	10° 8	9° 3	21° 5	12°33	9°28	13°29	25°24	27°56	4°25	3°36	1°58	8°28	F 18
S 19	1 51 15	25°58'40	16°33	11°37	9°57	21°43	12°35	9°35	13°29	25°25	27°58	4°19	3°33	2° 5	8°37	S 19
S 20	1 55 12	26°58'27	29° 8	13° 6	10°51	22°20	12°37	9°42	13°29	25°25	28° 1	4°10	3°29	2°11	8°45	S 20
M21	1 59 8	27°58'17	12♌ 1	14°34	11°46	22°58	12°40	9°50	13°29	25°25	28° 3	3°59	3°26	2°18	8°54	M21
T 22	2 3 5	28°58'08	25°12	16° 2	12°42	23°35	12°42	9°57	13°28	25°26	28° 5	3°46	3°23	2°25	9° 2	T 22
W23	2 7 1	29°58'02	8♍42	17°29	13°38	24°13	12°45	10° 4	13°D28	25°26	28° 7	3°33	3°20	2°31	9°11	W23
T 24	2 10 58	0♍57'58	22°25	18°55	14°35	24°50	12°48	10°11	13°28	25°26	28° 9	3°21	3°17	2°38	9°19	T 24
F 25	2 14 55	1°57'55	6♌20	20°21	15°32	25°28	12°52	10°18	13°29	25°26	28°11	3°10	3°13	2°45	9°28	F 25
S 26	2 18 51	2°57'55	20°21	21°45	16°30	26° 5	12°55	10°25	13°29	25°26	28°13	3° 3	3°10	2°51	9°36	S 26
S 27	2 22 48	3°57'56	4♌26	23° 9	17°28	26°43	12°59	10°32	13°29	25°26	28°16	2°59	3° 7	2°58	9°45	S 27
M28	2 26 44	4°57'58	18°32	24°33	18°27	27°20	13° 2	10°40	13°29	25°R26	28°18	2°57	3° 4	3° 5	9°53	M28
T 29	2 30 41	5°58'02	2♌38	25°55	19°26	27°58	13° 6	10°47	13°29	25°26	28°20	2°56	3° 1	3°11	10° 1	T 29
W30	2 34 37	6°58'08	16°43	27°16	20°26	28°35	13°11	10°54	13°30	25°26	28°22	2°56	2°58	3°18	10°10	W30
T 31	2 38 34	7♍58'15	0♌46	28♍37	21♍26	29♍12	13♌15	11♍ 1	13♌30	25♏26	28♎25	2♐55	2♑54	3♒25	10♓18	T 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
T 1	3s14	22s57	1s15	4s30	0n45	9n44	3s21	8n49	1n14	18s 5	1 s 3	11s59	2n11	17s26	0s43	20n39	0s29	7s16	12n39	18s51	19s10	20n33	4s32	2s20	
W 2	3 37	18 48	0n 1	5 15	0 38	9 41	3 11	8 34	1 14	18 6	1 3	12 1	2 10	17 26	0 43	20 39	0 29	7 17	12 39	18 51	19 11	20 31	4 35	2 20	
T 3	4 1	13 33	1 16	6 0	0 32	9 36	3 2	8 20	1 14	18 6	1 3	12 4	2 10	17 26	0 43	20 39	0 29	7 17	12 39	18 51	19 11	20 28	4 38	2 20	
F 4	4 24	7 32	2 27	6 44	0 25	9 31	2 52	8 6	1 14	18 6	1 3	12 6	2 10	17 26	0 43	20 39	0 29	7 18	12 38	18 52	19 12	20 26	4 41	2 20	
S 5	4 47	1 9	3 29	7 28	0 19	9 26	2 43	7 51	1 14	18 6	1 2	12 8	2 10	17 27	0 43	20 38	0 29	7 19	12 38	18 53	19 13	20 24	4 45	2 19	
S 6	5 10	5n14	4 16	8 11	0 12	9 19	2 34	7 37	1 14	18 6	1 2	12 10	2 10	17 27	0 43	20 38	0 29	7 20	12 37	18 55	19 14	20 21	4 48	2 19	
M 7	5 33	11 15	4 48	8 54	0 5	9 13	2 25	7 22	1 14	18 6	1 2	12 13	2 10	17 27	0 43	20 38	0 29	7 20	12 37	18 58	19 14	20 19	4 51	2 19	
T 8	5 56	16 35	5 1	9 36	0s 2	9 5	2 16	7 8	1 14	18 6	1 2	12 15	2 10	17 27	0 42	20 38	0 29	7 21	12 37	19 1	19 15	20 17	4 54	2 19	
W 9	6 19	20 58	4 58	10 17	0 9	8 57	2 7	6 53	1 15	18 6	1 2	12 17	2 10	17 27	0 42	20 38	0 29	7 22	12 36	19 3	19 16	20 15	4 58	2 18	
T 10	6 42	24 11	4 39	10 58	0 16	8 49	1 59	6 39	1 15	18 6	1 2	12 20	2 10	17 28	0 42	20 38	0 29	7 23	12 36	19 6	19 17	20 12	5 1	2 18	
F 11	7 5	26 5	4 6	11 38	0 23	8 40	1 50	6 24	1 15	18 6	1 2	12 22	2 9	17 28	0 42	20 38	0 29	7 23	12 36	19 8	19 17	20 10	5 4	2 18	
S 12	7 28	26 39	3 23	12 17	0 30	8 30	1 42	6 9	1 15	18 5	1 2	12 24	2 9	17 28	0 42	20 37	0 29	7 24	12 35	19 9	19 18	20 8	5 7	2 18	
S 13	7 50	25 54	2 31	12 56	0 36	8 20	1 34	5 55	1 15	18 5	1 2	12 26	2 9	17 28	0 42	20 37	0 29	7 25	12 35	19 10	19 19	20 5	5 11	2 17	
M14	8 12	23 58	1 33	13 34	0 43	8 9	1 26	5 40	1 15	18 5	1 2	12 29	2 9	17 28	0 42	20 37	0 29	7 26	12 35	19 10	19 20	20 3	5 14	2 17	
T 15	8 35	21 0	0 32	14 12	0 50	7 57	1 18	5 25	1 15	18 4	1 2	12 31	2 9	17 28	0 42	20 37	0 29	7 26	12 34	19 10	19 20	20 1	5 17	2 17	
W16	8 57	17 11	0s13	14 48	0 57	7 46	1 10	5 11	1 15	18 4	1 1	12 33	2 9	17 28	0 42	20 37	0 29	7 27	12 34	19 10	19 21	19 58	5 20	2 17	
T 17	9 19	12 40	1 33	15 24	1 4	7 33	1 3	4 56	1 15	18 3	1 1	12 36	2 9	17 28	0 42	20 37	0 29	7 28	12 34	19 10	19 22	19 56	5 24	2 16	
F 18	9 41	7 37	2 31	15 59	1 10	7 20	0 55	4 41	1 15	18 3	1 1	12 38	2 9	17 28	0 42	20 37	0 29	7 28	12 33	19 11	19 23	19 54	5 27	2 16	
S 19	10 3	2 12	3 23	16 33	1 17	7 7	0 48	4 26	1 15	18 2	1 1	12 40	2 9	17 28	0 42	20 37	0 29	7 29	12 33	19 13	19 23	19 51	5 30	2 16	
S 20	10 25	3s25	4 7	17 7	1 23	6 53	0 40	4 11	1 15	18 1	1 1	12 42	2 9	17 28	0 42	20 37	0 29	7 30	12 33	19 15	19 24	19 49	5 33	2 16	
M21	10 46	9 2	4 39	17 39	1 29	6 39	0 33	3 57	1 15	18 0	1 1	12 45	2 9	17 28	0 42	20 37	0 29	7 31	12 33	19 17	19 25	19 46	5 36	2 16	
T 22	11 7	14 22	4 57	18 11	1 35	6 24	0 26	3 42	1 15	17 59	1 1	12 47	2 9	17 28	0 42	20 37	0 29	7 31	12 32	19 20	19 26	19 44	5 40	2 15	
W23	11 29	19 8	4 59	18 42	1 41	6 9	0 20	3 27	1 15	17 59	1 1	12 49	2 9	17 28	0 42	20 37	0 29	7 32	12 32	19 23	19 26	19 42	5 43	2 15	
T 24	11 50	22 58	4 44	19 11	1 47	5 53	0 13	3 12	1 15	17 58	1 1	12 52	2 8	17 28	0 42	20 37	0 29	7 33	12 32	19 26	19 27	19 39	5 46	2 15	
F 25	12 10	25 32	4 12	19 40	1 53	5 37	0 7	2 57	1 15	17 57	1 0	12 54	2 8	17 28	0 42	20 37	0 29	7 33	12 32	19 29	19 28	19 37	5 49	2 15	
S 26	12 31	26 31	3 25	20 8	1 58	5 20	0 0	2 42	1 15	17 55	1 0	12 56	2 8	17 28	0 42	20 37	0 29	7 34	12 31	19 30	19 29	19 35	5 52	2 15	
S 27	12 51	25 48	2 25	20 35	2 3	5 3	0n 6	2 27	1 15	17 54	1 0	12 58	2 8	17 28	0 42	20 37	0 29	7 35	12 31	19 31	19 29	19 32	5 55	2 14	
M28	13 12	23 26	1 15	21 0	2 8	4 46	0 12	2 13	1 15	17 53	1 0	13 1	2 8	17 28	0 42	20 37	0 29	7 36	12 31	19 32	19 30	19 30	5 59	2 14	
T 29	13 32	19 38	0 2	21 25	2 13	4 28	0 18	1 58	1 15	17 52	1 0	13 3	2 8	17 28	0 42	20 37	0 29	7 36	12 31	19 32	19 31	19 27	6 2	2 14	
W30	13 52	14 42	1n12	21 49	2 18	4 10	0 24	1 43	1 15	17 51	1 0	13 5	2 8	17 28	0 42	20 37	0 29	7 37	12 30	19 32	19 31	19 25	6 5	2 14	
T 31	14s11	9s 1	2n21	22s11	2s22	3n51	0n29	1n28	1n15	17s49	1s 0	13s 7	2n 8	17s28	0s42	20n37	0s29	7s38	12n30	19s32	19s32	19n23	6s 8	2s14	

ASTRODIENST EPHEMERIS for the year 1748

geocentric

NOVEMBER 1748

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 42 30	8♌58'24	14♋46	29♍56	22♊27	29♊50	13♏19	11♍8	13♏30	25°R26	28♌27	2°R51	2♏51	3♌231	10♏26	F 1
S 2	2 46 27	9°58'34	28°42	1♌14	23°28	0♏27	13°24	11°15	13°31	25°26	28°29	2♏45	2°48	3°38	10°34	S 2
S 3	2 50 24	10°58'46	12°Y31	2°31	24°29	1°5	13°29	11°23	13°32	25°26	28°31	2°36	2°45	3°45	10°43	S 3
M 4	2 54 20	11°58'59	26°10	3°46	25°31	1°42	13°34	11°30	13°32	25°26	28°34	2°24	2°42	3°51	10°51	M 4
T 5	2 58 17	12°59'14	9♌36	5°0	26°33	2°19	13°39	11°37	13°33	25°25	28°36	2°11	2°39	3°58	10°59	T 5
W 6	3 2 13	13°59'31	22°47	6°11	27°36	2°57	13°45	11°44	13°33	25°25	28°38	1°58	2°35	4°4	11°7	W 6
T 7	3 6 10	14°59'50	5♏40	7°21	28°39	3°34	13°50	11°51	13°34	25°25	28°41	1°47	2°32	4°11	11°15	T 7
F 8	3 10 6	16°0'11	18°15	8°28	29°42	4°11	13°56	11°59	13°35	25°24	28°43	1°37	2°29	4°18	11°23	F 8
S 9	3 14 3	17°0'33	0♏33	9°33	0♏46	4°48	14°2	12°6	13°36	25°24	28°45	1°30	2°26	4°24	11°31	S 9
S 10	3 17 59	18°0'58	12°38	10°35	1°50	5°26	14°8	12°13	13°37	25°24	28°48	1°26	2°23	4°31	11°38	S 10
M 11	3 21 56	19°1'24	24°32	11°34	2°54	6°3	14°15	12°20	13°38	25°23	28°50	1°25	2°19	4°38	11°46	M 11
T 12	3 25 53	20°1'52	6♏20	12°29	3°59	6°40	14°21	12°27	13°39	25°23	28°52	1°D25	2°16	4°44	11°54	T 12
W 13	3 29 49	21°2'22	18°8	13°19	5°4	7°17	14°28	12°34	13°40	25°22	28°55	1°R25	2°13	4°51	12°2	W 13
T 14	3 33 46	22°2'53	0♊0	14°5	6°9	7°55	14°34	12°42	13°41	25°22	28°57	1°25	2°10	4°58	12°9	T 14
F 15	3 37 42	23°3'27	12°3	14°46	7°15	8°32	14°41	12°49	13°42	25°21	28°59	1°23	2°7	5°4	12°17	F 15
S 16	3 41 39	24°4'02	24°22	15°20	8°21	9°9	14°48	12°56	13°43	25°20	29°2	1°19	2°4	5°11	12°24	S 16
S 17	3 45 35	25°4'39	7♏1	15°48	9°27	9°46	14°56	13°3	13°44	25°20	29°4	1°12	2°0	5°18	12°32	S 17
M 18	3 49 32	26°5'17	20°2	16°9	10°33	10°23	15°3	13°10	13°46	25°19	29°7	1°3	1°57	5°24	12°39	M 18
T 19	3 53 28	27°5'58	3♌28	16°21	11°40	11°0	15°11	13°17	13°47	25°18	29°9	0°53	1°54	5°31	12°46	T 19
W 20	3 57 25	28°6'39	17°15	16°R24	12°46	11°38	15°18	13°24	13°48	25°18	29°11	0°41	1°51	5°37	12°54	W 20
T 21	4 1 22	29°7'23	1♌22	16°18	13°54	12°15	15°26	13°31	13°50	25°17	29°14	0°31	1°48	5°44	13°1	T 21
F 22	4 5 18	0♌8'08	15°43	16°1	15°1	12°52	15°34	13°38	13°51	25°16	29°16	0°22	1°45	5°51	13°8	F 22
S 23	4 9 15	1°8'54	0♏12	15°34	16°8	13°29	15°42	13°45	13°53	25°15	29°19	0°16	1°41	5°57	13°15	S 23
S 24	4 13 11	2°9'41	14°42	14°55	17°16	14°6	15°51	13°52	13°54	25°14	29°21	0°13	1°38	6°4	13°22	S 24
M 25	4 17 8	3°10'29	29°9	14°6	18°24	14°43	15°59	13°59	13°56	25°14	29°23	0°D12	1°35	6°11	13°29	M 25
T 26	4 21 4	4°11'18	13♏28	13°7	19°32	15°20	16°8	14°6	13°58	25°13	29°26	0°12	1°32	6°17	13°36	T 26
W 27	4 25 1	5°12'08	27°38	11°59	20°40	15°57	16°17	14°13	13°59	25°12	29°28	0°13	1°29	6°24	13°43	W 27
T 28	4 28 57	6°12'59	11♋37	10°43	21°49	16°34	16°25	14°20	14°1	25°11	29°30	0°R13	1°25	6°31	13°49	T 28
F 29	4 32 54	7°13'51	25°25	9°23	22°58	17°11	16°34	14°27	14°3	25°10	29°33	0°12	1°22	6°37	13°56	F 29
S 30	4 36 51	8♌14'43	9°Y2	8♌0	24♏6	17♏48	16♏44	14♌34	14♏5	25°9	29♌35	0♏8	1♏19	6♌44	14♏3	S 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	decl	lat
F 1	14s31	2s54	3n22	22s32	2s26	3n32	0n35	1n13	1n15	17s48	1s0	13s10	2n8	17s27	0s42	20n37	0s29	7s38	12n30	19s33	19s33	19n20	6s11	2s13	2s13	2s13	
S 2	14 50	3n18	4 10	22 52	2 29	3 13	0 40	0 58	1 15	17 46	1 0	13 12	2 8	17 27	0 42	20 37	0 29	7 39	12 30	19 34	19 34	19 18	6 14	2 13	2 13	2 13	
S 3	15 9	9 17	4 43	23 11	2 32	2 53	0 46	0 43	1 15	17 45	0 59	13 14	2 8	17 27	0 42	20 37	0 29	7 40	12 29	19 37	19 34	19 15	6 17	2 13	2 13	2 13	
M 4	15 27	14 45	4 59	23 28	2 35	2 33	0 51	0 28	1 15	17 43	0 59	13 16	2 8	17 27	0 42	20 37	0 29	7 40	12 29	19 39	19 35	19 13	6 20	2 13	2 13	2 13	
T 5	15 46	19 25	4 58	23 44	2 37	2 13	0 56	0 13	1 15	17 42	0 59	13 19	2 8	17 27	0 42	20 37	0 29	7 41	12 29	19 42	19 36	19 11	6 23	2 13	2 13	2 13	
W 6	16 4	23 1	4 41	23 59	2 39	1 53	1 0	0s1	1 15	17 40	0 59	13 21	2 8	17 26	0 42	20 37	0 29	7 42	12 29	19 45	19 37	19 8	6 26	2 13	2 13	2 13	
T 7	16 21	25 23	4 10	24 12	2 40	1 32	1 5	0 16	1 15	17 38	0 59	13 23	2 8	17 26	0 42	20 37	0 29	7 42	12 29	19 48	19 37	19 6	6 29	2 12	2 12	2 12	
F 8	16 39	26 24	3 28	24 24	2 41	1 11	1 9	0 31	1 15	17 37	0 59	13 25	2 8	17 26	0 42	20 37	0 29	7 43	12 29	19 50	19 38	19 3	6 32	2 12	2 12	2 12	
S 9	16 56	26 4	2 36	24 34	2 41	0 49	1 14	0 46	1 15	17 35	0 59	13 27	2 8	17 26	0 41	20 37	0 29	7 43	12 28	19 51	19 39	19 1	6 35	2 12	2 12	2 12	
S 10	17 13	24 30	1 38	24 43	2 41	0 28	1 18	1 1	1 15	17 33	0 59	13 30	2 8	17 25	0 41	20 37	0 29	7 44	12 28	19 52	19 39	18 58	6 38	2 12	2 12	2 12	
M 11	17 30	21 51	0 37	24 50	2 39	0 6	1 22	1 16	1 15	17 31	0 59	13 32	2 8	17 25	0 41	20 37	0 29	7 45	12 28	19 52	19 40	18 56	6 41	2 12	2 12	2 12	
T 12	17 46	18 18	0s26	24 55	2 37	0s16	1 26	1 30	1 15	17 29	0 59	13 34	2 8	17 25	0 41	20 37	0 29	7 45	12 28	19 52	19 41	18 53	6 44	2 12	2 12	2 12	
W 13	18 3	14 2	1 28	24 59	2 34	0 39	1 30	1 45	1 15	17 27	0 58	13 36	2 8	17 24	0 41	20 37	0 29	7 46	12 28	19 52	19 42	18 51	6 47	2 11	2 11	2 11	
T 14	18 18	9 12	2 26	25 1	2 31	1 1	1 33	2 0	1 15	17 25	0 58	13 38	2 8	17 24	0 41	20 37	0 29	7 47	12 28	19 52	19 42	18 49	6 49	2 11	2 11	2 11	
F 15	18 34	3 59	3 19	25 1	2 26	1 24	1 37	2 15	1 15	17 23	0 58	13 40	2 8	17 24	0 41	20 37	0 29	7 47	12 28	19 53	19 43	18 46	6 52	2 11	2 11	2 11	
S 16	18 49	1s29	4 3	24 59	2 20	1 47	1 40	2 29	1 15	17 21	0 58	13 42	2 8	17 23	0 41	20 38	0 29	7 48	12 27	19 54	19 44	18 44	6 55	2 11	2 11	2 11	
S 17	19 4	7 2	4 37	24 55	2 12	2 10	1 43	2 44	1 15	17 18	0 58	13 45	2 8	17 23	0 41	20 38	0 29	7 48	12 27	19 55	19 44	18 41	6 58	2 11	2 11	2 11	
M 18	19 18	12 26	4 58	24 48	2 4	2 33	1 47	2 59	1 15	17 16	0 58	13 47	2 8	17 23	0 41	20 38	0 29	7 49	12 27	19 57	19 45	18 39	7 1	2 11	2 11	2 11	
T 19	19 32	17 26	5 3	24 40	1 54	2 56	1 50	3 13	1 15	17 14	0 58	13 49	2 8	17 22	0 41	20 38	0 29	7 49	12 27	19 59	19 46	18 36	7 3	2 11	2 11	2 11	
W 20	19 46	21 39	4 51	24 29	1 43	3 20	1 52	3 28	1 14	17 11	0 58	13 51	2 8	17 22	0 41	20 38	0 29	7 50	12 27	20 2	19 47	18 34	7 6	2 10	2 10	2 10	
T 21	19 59	24 43	4 21	24 15	1 30	3 43	1 55	3 42	1 14	17 9	0 58	13 53	2 8	17 21	0 41	20 38	0 29	7 51	12 27	20 4	19 47	18 31	7 9	2 10	2 10	2 10	
F 22	20 12	26 16	3 34	23 59	1 16	4 7	1 58	3 57	1 14	17 6	0 58	13 55	2 8	17 21	0 41	20 38	0 29	7 51	12 27	20 6	19 48	18 29	7 11	2 10	2 10	2 10	
S 23	20 25	26 2	2 33	23 41	1 0	4 31	2 0	4 11	1 14	17 4	0 57	13 57	2 8	17 20	0 41	20 38	0 29	7 52	12 27	20 7	19 49	18 26	7 14	2 10	2 10	2 10	
S 24	20 37	24 1	1 22	23 19	0 42	4 54	2 2	4 26	1 14	17 1	0 57	13 59	2 8	17 20	0 41	20 39	0 29	7 52	12 27	20 8	19 49	18 24	7 17	2 10	2 10	2 10	
M 25	20 49	20 27	0 6	22 55	0 24	5 18	2 4	4 40	1 14	16 59	0 57	14 1	2 8	17 19	0 41	20 39	0 29	7 53	12 27	20 8	19 50	18 21	7 19	2 10	2 10	2 10	
T 26	21 1	15 40	1n11	22 29	0 4	5 42	2 6	4 54	1 14	16 56	0 57	14 3	2 8	17 19	0 41	20 39	0 29	7 53	12 27	20 8	19 51	18 19	7 22	2 10	2 10	2 10	
W 27	21 12	10 5	2 22	22 0	0n16	6 6	2 8	5 9	1 14	16 53	0 57	14 5	2 8	17 18	0 41	20 39	0 29	7 54	12 27	20 8	19 52	18 16	7 24	2 10	2 10	2 10	
T 28	21 23	4 5	3 24	21 29	0 36	6 30	2 10	5 23	1 14	16 51	0 57	14 7	2 8	17 18	0 41	20 39	0 29	7 54	12 27	20 8	19 52	18 14	7 27	2 9	2 9	2 9	
F 29	21 33	2n 2	4 13	20 58	0 56	6 54	2 12	5 37	1 14	16 48	0 57	14 9	2 9	17 17	0 41	20 39	0 29	7 55	12 27	20 8	19 53	18 11	7 29	2 9	2 9	2 9	
S 30	21s43	7n58	4n47	20s25	1n16	7s18	2n13	5s51	1n14	16s45	0s57	14s11	2n 9	17s17	0s41	20n40	0s29	7s55	12n27	20s 9	19s54	18n 9	7s32	2s 9	2s 9	2s 9	

ASTRODIENST EPHEMERIS for the year 1748
geocentric

DECEMBER 1748

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 40 47	9♂15'37	22♂27	6°R38	25♂16	18♂25	16♂53	14♂40	14♂7	25°R 8	29♂37	0°R 2	1♂16	6♂51	14♂9	S 1
M 2	4 44 44	10°16'31	5♂41	5♂19	26°25	19° 1	17° 2	14°47	14° 8	25♂7	29°40	29♂54	1°13	6°57	14°16	M 2
T 3	4 48 40	11°17'26	18°43	4° 6	27°34	19°38	17°12	14°54	14°10	25° 5	29°42	29°45	1°10	7° 4	14°22	T 3
W 4	4 52 37	12°18'22	1♂32	3° 0	28°44	20°15	17°22	15° 0	14°12	25° 4	29°45	29°36	1° 6	7°11	14°28	W 4
T 5	4 56 33	13°19'19	14° 7	2° 4	29°53	20°52	17°31	15° 7	14°15	25° 3	29°47	29°27	1° 3	7°17	14°34	T 5
F 6	5 0 30	14°20'17	26°30	1°19	1♂ 3	21°29	17°41	15°14	14°17	25° 2	29°49	29°21	1° 0	7°24	14°41	F 6
S 7	5 4 27	15°21'16	8♂40	0°45	2°13	22° 5	17°51	15°20	14°19	25° 1	29°51	29°16	0°57	7°30	14°47	S 7
S 8	5 8 23	16°22'15	20°39	0°22	3°23	22°42	18° 1	15°27	14°21	25° 0	29°54	29°14	0°54	7°37	14°53	S 8
M 9	5 12 20	17°23'16	2♂31	0°11	4°34	23°19	18°12	15°33	14°23	24°58	29°56	29°D14	0°51	7°44	14°58	M 9
T 10	5 16 16	18°24'18	14°18	0°D 9	5°44	23°56	18°22	15°40	14°25	24°57	29°58	29°15	0°47	7°50	15° 4	T 10
W11	5 20 13	19°25'20	26° 5	0°18	6°55	24°32	18°33	15°46	14°28	24°56	0♂ 1	29°16	0°44	7°57	15°10	W11
T 12	5 24 9	20°26'24	7♂57	0°36	8° 5	25° 9	18°43	15°53	14°30	24°54	0° 3	29°18	0°41	8° 4	15°15	T 12
F 13	5 28 6	21°27'28	19°58	1° 2	9°16	25°46	18°54	15°59	14°32	24°53	0° 5	29°R19	0°38	8°10	15°21	F 13
S 14	5 32 2	22°28'34	2♂15	1°35	10°27	26°22	19° 5	16° 5	14°35	24°52	0° 7	29°18	0°35	8°17	15°26	S 14
S 15	5 35 59	23°29'40	14°51	2°15	11°38	26°59	19°16	16°11	14°37	24°50	0°10	29°16	0°31	8°24	15°32	S 15
M16	5 39 56	24°30'47	27°50	3° 1	12°49	27°35	19°27	16°18	14°40	24°49	0°12	29°12	0°28	8°30	15°37	M16
T 17	5 43 52	25°31'55	11♂17	3°52	14° 0	28°12	19°38	16°24	14°42	24°48	0°14	29° 8	0°25	8°37	15°42	T 17
W18	5 47 49	26°33'04	25°10	4°48	15°12	28°49	19°49	16°30	14°45	24°46	0°16	29° 2	0°22	8°44	15°47	W18
T 19	5 51 45	27°34'13	9♂27	5°47	16°23	29°25	20° 0	16°36	14°48	24°45	0°18	28°57	0°19	8°50	15°52	T 19
F 20	5 55 42	28°35'23	24° 5	6°51	17°35	0♂ 1	20°12	16°42	14°50	24°43	0°21	28°53	0°16	8°57	15°57	F 20
S 21	5 59 38	29°36'33	8♂56	7°57	18°46	0°38	20°23	16°48	14°53	24°42	0°23	28°50	0°12	9° 4	16° 2	S 21
S 22	6 3 35	0♂37'44	23°53	9° 6	19°58	1°14	20°35	16°54	14°56	24°40	0°25	28°D49	0° 9	9°10	16° 6	S 22
M23	6 7 31	1°38'55	8♂46	10°18	21°10	1°51	20°47	17° 0	14°58	24°39	0°27	28°49	0° 6	9°17	16°11	M23
T 24	6 11 28	2°40'05	23°29	11°31	22°22	2°27	20°59	17° 5	15° 1	24°37	0°29	28°50	0° 3	9°23	16°15	T 24
W25	6 15 25	3°41'16	7♂56	12°47	23°34	3° 3	21°11	17°11	15° 4	24°36	0°31	28°52	29♂59	9°30	16°20	W25
T 26	6 19 21	4°42'27	22° 6	14° 4	24°46	3°40	21°23	17°17	15° 7	24°34	0°33	28°53	29°57	9°37	16°24	T 26
F 27	6 23 18	5°43'37	5♂56	15°23	25°58	4°16	21°35	17°22	15°10	24°32	0°35	28°R53	29°53	9°43	16°28	F 27
S 28	6 27 14	6°44'47	19°26	16°43	27°10	4°52	21°47	17°28	15°12	24°31	0°37	28°53	29°50	9°50	16°32	S 28
S 29	6 31 11	7°45'57	2♂39	18° 4	28°23	5°28	21°59	17°33	15°15	24°29	0°39	28°51	29°47	9°57	16°36	S 29
M30	6 35 7	8°47'07	15°35	19°27	29°35	6° 4	22°11	17°39	15°18	24°28	0°41	28°49	29°44	10° 3	16°40	M30
T 31	6 39 4	9♂48'17	28♂17	20♂50	0♂47	6♂40	22♂24	17♂44	15♂21	24♂26	0♂43	28♂46	29♂41	10♂10	16♂43	T 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	decl	lat	decl	lat
S 1	21s52	13n27	5n 4	19s54	1n34	7s42	2n15	6s 6	1n14	16s42	0s57	14s13	2n 9	17s16	0s41	20n40	0s29	7s56	12n27	20s10	19s54	18n 6	7s34	2s 9							
M 2	22 1	18 14	5 5	19 24	1 51	8 6	2 16	6 20	1 13	16 39	0 57	14 15	2 9	17 16	0 41	20 40	0 29	7 56	12 27	20 12	19 55	18 4	7 37	2 9							
T 3	22 10	22 4	4 51	18 56	2 6	8 30	2 17	6 34	1 13	16 36	0 57	14 17	2 9	17 15	0 41	20 40	0 29	7 57	12 27	20 14	19 56	18 1	7 39	2 9							
W 4	22 18	24 45	4 21	18 31	2 19	8 53	2 18	6 48	1 13	16 33	0 57	14 18	2 9	17 14	0 41	20 40	0 29	7 57	12 27	20 16	19 56	17 59	7 41	2 9							
T 5	22 26	26 9	3 39	18 10	2 29	9 17	2 19	7 2	1 13	16 30	0 56	14 20	2 9	17 14	0 41	20 41	0 29	7 57	12 27	20 18	19 57	17 56	7 44	2 9							
F 6	22 33	26 13	2 48	17 53	2 37	9 41	2 20	7 16	1 13	16 27	0 56	14 22	2 9	17 13	0 41	20 41	0 29	7 58	12 27	20 19	19 58	17 54	7 46	2 9							
S 7	22 40	25 0	1 49	17 41	2 43	10 4	2 20	7 29	1 13	16 24	0 56	14 24	2 9	17 12	0 41	20 41	0 29	7 58	12 27	20 20	19 59	17 51	7 48	2 8							
S 8	22 46	22 39	0 46	17 32	2 47	10 27	2 21	7 43	1 13	16 21	0 56	14 26	2 9	17 12	0 41	20 41	0 29	7 59	12 27	20 20	19 59	17 48	7 50	2 8							
M 9	22 52	19 20	0s18	17 28	2 49	10 51	2 21	7 57	1 13	16 17	0 56	14 28	2 9	17 11	0 41	20 41	0 29	7 59	12 27	20 20	20 0	17 46	7 53	2 8							
T 10	22 58	15 16	1 21	17 27	2 49	11 14	2 21	8 11	1 12	16 14	0 56	14 29	2 9	17 10	0 41	20 42	0 29	8 0	12 27	20 20	20 1	17 43	7 55	2 8							
W11	23 3	10 38	2 21	17 30	2 48	11 37	2 22	8 24	1 12	16 11	0 56	14 31	2 9	17 10	0 41	20 42	0 29	8 0	12 27	20 20	20 1	17 41	7 57	2 8							
T 12	23 8	5 35	3 15	17 36	2 46	11 59	2 22	8 38	1 12	16 7	0 56	14 33	2 9	17 9	0 41	20 42	0 29	8 0	12 27	20 20	20 2	17 38	7 59	2 8							
F 13	23 12	0 16	4 2	17 45	2 42	12 22	2 22	8 51	1 12	16 4	0 56	14 35	2 10	17 8	0 41	20 42	0 29	8 1	12 27	20 19	20 3	17 36	8 1	2 8							
S 14	23 16	5s 9	4 38	17 56	2 38	12 44	2 21	9 5	1 12	16 0	0 56	14 36	2 10	17 8	0 40	20 43	0 29	8 1	12 27	20 20	20 3	17 33	8 3	2 8							
S 15	23 19	10 30	5 2	18 9	2 32	13 6	2 21	9 18	1 12	15 57	0 56	14 38	2 10	17 7	0 40	20 43	0 29	8 1	12 27	20 20	20 4	17 31	8 5	2 8							
M16	23 22	15 34	5 12	18 24	2 27	13 28	2 21	9 31	1 11	15 53	0 56	14 40	2 10	17 6	0 40	20 43	0 29	8 2	12 27	20 21	20 5	17 28	8 7	2 8							
T 17	23 24	20 4	5 5	18 40	2 20	13 50	2 20	9 44	1 11	15 50	0 56	14 41	2 10	17 5	0 40	20 43	0 29	8 2	12 27	20 22	20 5	17 25	8 9	2 8							
W18	23 26	23 37	4 41	18 57	2 13	14 11	2 20	9 58	1 11	15 46	0 56	14 43	2 10	17 5	0 40	20 44	0 29	8 2	12 27	20 23	20 6	17 23	8 11	2 7							
T 19	23 27	25 49	3 58	19 14	2 6	14 32	2 19	10 11	1 11	15 43	0 56	14 45	2 10	17 4	0 40	20 44	0 29	8 3	12 28	20 24	20 7	17 20	8 13	2 7							
F 20	23 28	26 19	2 59	19 32	1 58	14 53	2 18	10 24	1 11	15 39	0 55	14 46	2 10	17 3	0 40	20 44	0 29	8 3	12 28	20 25	20 7	17 18	8 14	2 7							
S 21	23 28	24 57	1 47	19 51	1 50	15 14	2 17	10 36	1 11	15 35	0 55	14 48	2 10	17 2	0 40	20 44	0 29	8 3	12 28	20 25	20 8	17 15	8 16	2 7							
S 22	23 28	21 48	0 27	20 9	1 42	15 34	2 17	10 49	1 10	15 31	0 55	14 49	2 10	17 1	0 40	20 45	0 29	8 4	12 28	20 26	20 9	17 12	8 18	2 7							
M23	23 28	17 13	0n54	20 28	1 34	15 54	2 15	11 2	1 10	15 28	0 55	14 51	2 11	17 1	0 40	20 45	0 29	8 4	12 28	20 26	20 9	17 10	8 20	2 7							
T 24	23 27	11 38	2 12	20 46	1 26	16 13	2 14	11 15	1 10	15 24	0 55	14 52	2 11	17 0	0 40	20 45	0 29	8 4	12 28	20 25	20 10	17 7	8 21	2 7							
W25	23 25	5 31	3 19	21 4	1 18	16 33	2 13	11 27	1 10	15 20	0 55	14 54	2 11	16 59	0 40	20 46	0 29	8 4	12 28	20 25	20 11	17 5	8 23	2 7							
T 26	23 23	0n44	4 13	21 22	1 10	16 51	2 12	11 40	1 9	15 16	0 55	14 55	2 11	16 58	0 40	20 46	0 29	8 5	12 29	20 25	20 11	17 2	8 24	2 7							
F 27	23 21	6 48	4 50	21 39	1 1	17 10	2 10	11 52	1 9	15 12	0 55	14 57	2 11	16 57	0 40	20 46	0 29	8 5	12 29	20 25	20 12	16 59	8 26	2 7							
S 28	23 18	12 25	5 11	21 56	0 53	17 28	2 9	12 5	1 9	15 8	0 55	14 58	2 11	16 56	0 40	20 46	0 29	8 5	12 29	20 25	20 13	16 57	8 27	2 7							
S 29	23 15	17 20	5 15	22 11	0 45	17 45	2 7	12 17	1 9	15 4	0 55	14 59	2 11	16 55	0 40	20 47	0 29	8 5	12 29	20 25	20 13	16 54	8 29	2 7							
M30	23 11	21 20	5 2	22 26	0 37	18 3	2 6	12 29	1 9	15 0	0 55	15 1	2 11	16 55	0 40	20 47	0 29	8 6	12 29	20 26	20 14	16 52	8 30	2 6							
T 31	23s 7	24n16	4n35	22s41	0n29	18s19	2n 4	12s41	1n 8	14s56	0s55	15s 2	2n12	16s54	0s40	20n47	0s29	8s 6	12n29	20s26	20s15	16n49	8s32	2s 6							

Julian Day Number = 2359838.5, Delta T = 15.69 sec
Ecliptic obliquity = 23°28'23", Nutation = 0°00'13", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 21°14'06", Lahiri = 20°21'06"Greg. Calendar