



Astrodienst Ephemeris Tables for the year 2049

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 2049
geocentric

JANUARY 2049

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	6 44 21	10 ³⁵ 9'34	27 ¹¹ 34	29 ³⁰ 10	28 ²⁸ 12	14 ¹¹ 4	24 ¹⁰ 0	17 ³⁰ 30	15 ¹⁰ 54	21 ¹⁰ 19	6 ¹¹ 15	18 ²⁷ 28	17 ²⁷ 19	7 ²⁸ 8	23 ¹¹ 38	F 1
S 2	6 48 18	12° 0'45	12 ²⁷ 20	29°26	29°13	14°48	23 ¹¹ 52	17°37	15 ¹⁰ 53	21 ¹⁰ 18	6°16	18°R29	17°15	7°14	23°44	S 2
S 3	6 52 14	13° 1'56	27°23	29°R31	0 ¹¹ 15	15°33	23°45	17°44	15°53	21°17	6°17	18°29	17°12	7°21	23°50	S 3
M 4	6 56 11	14° 3'07	12 ³⁰ 37	29°25	1°16	16°18	23°38	17°51	15°52	21°16	6°18	18°27	17° 9	7°28	23°57	M 4
T 5	7 0 8	15° 4'18	27°52	29° 7	2°17	17° 2	23°31	17°58	15°51	21°15	6°19	18°25	17° 6	7°34	24° 3	T 5
W 6	7 4 4	16° 5'29	12 ³⁵ 56	28°37	3°17	17°47	23°24	18° 5	15°50	21°14	6°20	18°21	17° 3	7°41	24° 9	W 6
T 7	7 8 1	17° 6'39	27°41	27°56	4°17	18°31	23°17	18°13	15°49	21°13	6°22	18°17	17° 0	7°48	24°15	T 7
F 8	7 11 57	18° 7'49	12 ³⁸ 1	27° 4	5°16	19°16	23°10	18°20	15°48	21°13	6°23	18°12	16°56	7°54	24°21	F 8
S 9	7 15 54	19° 8'59	25°53	26° 2	6°15	20° 0	23° 4	18°27	15°47	21°12	6°24	18° 9	16°53	8° 1	24°27	S 9
S 10	7 19 50	20°10'08	9 ¹⁰ 16	24°52	7°13	20°45	22°57	18°34	15°46	21°11	6°25	18° 7	16°50	8° 7	24°33	S 10
M 11	7 23 47	21°11'17	22°12	23°36	8°11	21°30	22°51	18°41	15°45	21°10	6°26	18°D 6	16°47	8°14	24°39	M 11
T 12	7 27 43	22°12'25	4 ¹¹ 46	22°17	9° 8	22°14	22°44	18°48	15°44	21°10	6°28	18° 7	16°44	8°21	24°45	T 12
W 13	7 31 40	23°13'33	17° 1	20°58	10° 5	22°59	22°38	18°55	15°43	21° 9	6°29	18° 9	16°40	8°27	24°50	W 13
T 14	7 35 37	24°14'40	29° 3	19°40	11° 1	23°43	22°32	19° 2	15°41	21° 9	6°30	18°11	16°37	8°34	24°56	T 14
F 15	7 39 33	25°15'46	10 ¹¹ 56	18°25	11°56	24°27	22°27	19° 9	15°40	21° 8	6°31	18°12	16°34	8°41	25° 1	F 15
S 16	7 43 30	26°16'52	22°44	17°17	12°51	25°12	22°21	19°17	15°39	21° 8	6°33	18°R12	16°31	8°47	25° 7	S 16
S 17	7 47 26	27°17'57	4 ¹² 31	16°16	13°46	25°56	22°16	19°24	15°37	21° 7	6°34	18°11	16°28	8°54	25°12	S 17
M 18	7 51 23	28°19'01	16°20	15°24	14°39	26°41	22°10	19°31	15°36	21° 7	6°35	18° 7	16°25	9° 1	25°17	M 18
T 19	7 55 19	29°20'05	28°12	14°41	15°32	27°25	22° 5	19°38	15°34	21° 6	6°37	18° 1	16°21	9° 7	25°23	T 19
W 20	7 59 16	0 ²² 1'09	10 ¹² 11	14° 7	16°24	28° 9	22° 0	19°45	15°33	21° 6	6°38	17°54	16°18	9°14	25°28	W 20
T 21	8 3 12	1°22'11	22°16	13°43	17°15	28°54	21°55	19°52	15°31	21° 5	6°40	17°46	16°15	9°21	25°33	T 21
F 22	8 7 9	2°23'14	4 ¹³ 30	13°28	18° 6	29°38	21°51	19°59	15°29	21° 5	6°41	17°37	16°12	9°27	25°37	F 22
S 23	8 11 6	3°24'15	16°54	13°D21	18°56	0 ¹⁴ 22	21°46	20° 6	15°28	21° 5	6°42	17°29	16° 9	9°34	25°42	S 23
S 24	8 15 2	4°25'16	29°29	13°23	19°44	1° 7	21°42	20°13	15°26	21° 5	6°44	17°22	16° 6	9°41	25°47	S 24
M 25	8 18 59	5°26'17	12 ¹⁴ 18	13°33	20°32	1°51	21°38	20°20	15°24	21° 4	6°45	17°17	16° 2	9°47	25°52	M 25
T 26	8 22 55	6°27'16	25°22	13°49	21°20	2°35	21°34	20°27	15°22	21° 4	6°47	17°14	15°59	9°54	25°56	T 26
W 27	8 26 52	7°28'16	8 ¹⁵ 45	14°13	22° 6	3°19	21°30	20°34	15°21	21° 4	6°48	17°D14	15°56	10° 1	26° 1	W 27
T 28	8 30 48	8°29'15	22°28	14°42	22°51	4° 3	21°27	20°41	15°19	21° 4	6°50	17°14	15°53	10° 7	26° 5	T 28
F 29	8 34 45	9°30'13	6 ¹⁶ 33	15°17	23°35	4°47	21°24	20°47	15°17	21° 4	6°51	17°15	15°50	10°14	26° 9	F 29
S 30	8 38 41	10°31'11	20°59	15°56	24°18	5°32	21°20	20°54	15°15	21° 4	6°53	17°R16	15°46	10°21	26°14	S 30
S 31	8 42 38	11 ²² 32'08	5 ¹⁷ 44	16 ²³ 40	25 ¹⁸ 0	6 ¹⁰ 16	21 ¹¹ 18	21 ¹² 1	15 ¹⁰ 13	21°D 4	6 ¹¹ 54	17 ²⁷ 14	15 ²⁷ 43	10 ²⁸ 27	26 ¹¹ 18	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	decl	lat	decl	lat	decl	lat	
F 1	22s59	21s27	1s53	20s33	0s14	13s17	1s16	6s59	0s47	22n55	0s23	22s 3	0n14	6n17	0n47	16n22	1s46	20s44	12s26	22s56	22s50	21n30	16s37	2n 8										
S 2	22 53	22 50	0 34	20 13	0n 2	12 51	1 11	6 41	0 46	22 55	0 23	22 3	0 14	6 18	0 48	16 22	1 46	20 43	12 26	22 56	22 49	21 28	16 38	2 8										
S 3	22 48	22 35	0n49	19 55	0 20	12 25	1 6	6 23	0 45	22 55	0 23	22 2	0 14	6 18	0 48	16 22	1 46	20 42	12 25	22 56	22 49	21 27	16 39	2 8										
M 4	22 41	20 41	2 9	19 39	0 38	11 58	1 1	6 5	0 44	22 54	0 22	22 1	0 14	6 18	0 48	16 22	1 46	20 42	12 25	22 56	22 49	21 26	16 40	2 9										
T 5	22 35	17 19	3 20	19 24	0 57	11 32	0 56	5 46	0 42	22 54	0 22	22 0	0 14	6 19	0 48	16 21	1 46	20 41	12 25	22 56	22 48	21 25	16 41	2 9										
W 6	22 28	12 50	4 16	19 11	1 16	11 5	0 50	5 28	0 41	22 54	0 22	21 59	0 14	6 19	0 48	16 21	1 46	20 41	12 25	22 55	22 48	21 24	16 43	2 10										
T 7	22 20	7 40	4 54	19 1	1 35	10 38	0 45	5 9	0 40	22 54	0 22	21 58	0 14	6 19	0 48	16 21	1 46	20 40	12 25	22 55	22 48	21 22	16 44	2 10										
F 8	22 12	2 15	5 12	18 52	1 54	10 11	0 39	4 51	0 39	22 54	0 22	21 57	0 14	6 20	0 48	16 21	1 46	20 39	12 24	22 55	22 47	21 21	16 45	2 11										
S 9	22 4	3n 7	5 11	18 46	2 12	9 44	0 33	4 32	0 38	22 54	0 21	21 56	0 13	6 20	0 48	16 21	1 46	20 39	12 24	22 54	22 47	21 20	16 46	2 11										
S 10	21 55	8 9	4 53	18 42	2 29	9 16	0 27	4 14	0 37	22 53	0 21	21 56	0 13	6 21	0 48	16 21	1 46	20 38	12 24	22 54	22 47	21 19	16 47	2 12										
M 11	21 46	12 40	4 20	18 40	2 44	8 49	0 21	3 55	0 36	22 53	0 21	21 55	0 13	6 21	0 48	16 21	1 46	20 37	12 24	22 54	22 47	21 18	16 47	2 12										
T 12	21 36	16 29	3 36	18 40	2 57	8 22	0 14	3 37	0 35	22 53	0 21	21 54	0 13	6 22	0 48	16 20	1 46	20 37	12 24	22 54	22 46	21 16	16 48	2 12										
W 13	21 26	19 30	2 42	18 42	3 8	7 54	0 7	3 18	0 34	22 53	0 21	21 53	0 13	6 22	0 48	16 20	1 46	20 36	12 23	22 54	22 46	21 15	16 49	2 13										
T 14	21 16	21 37	1 43	18 45	3 16	7 26	0 1	3 0	0 33	22 53	0 21	21 52	0 13	6 23	0 48	16 20	1 46	20 35	12 23	22 54	22 46	21 14	16 50	2 13										
F 15	21 5	22 44	0 40	18 50	3 22	6 59	0n 6	2 41	0 32	22 53	0 20	21 51	0 13	6 23	0 48	16 20	1 46	20 35	12 23	22 55	22 45	21 13	16 51	2 14										
S 16	20 53	22 49	0s25	18 55	3 25	6 31	0 14	2 23	0 31	22 52	0 20	21 50	0 13	6 24	0 48	16 20	1 46	20 34	12 23	22 55	22 45	21 11	16 52	2 14										
S 17	20 42	21 54	1 28	19 2	3 26	6 4	0 21	2 4	0 30	22 52	0 20	21 49	0 13	6 24	0 48	16 20	1 46	20 34	12 23	22 54	22 45	21 10	16 53	2 15										
M 18	20 30	20 0	2 27	19 9	3 25	5 36	0 28	1 45	0 29	22 52	0 20	21 48	0 13	6 25	0 48	16 20	1 46	20 33	12 23	22 54	22 44	21 9	16 53	2 15										
T 19	20 17	17 15	3 20	19 17	3 21	5 9	0 36	1 27	0 28	22 52	0 20	21 47	0 13	6 26	0 48	16 20	1 45	20 32	12 23	22 54	22 44	21 8	16 54	2 16										
W 20	20 4	13 46	4 5	19 26	3 16	4 41	0 44	1 8	0 27	22 52	0 20	21 46	0 13	6 26	0 48	16 20	1 45	20 32	12 22	22 53	22 44	21 6	16 55	2 16										
T 21	19 51	9 41	4 39	19 34	3 10	4 14	0 52	0 50	0 26	22 52	0 19	21 45	0 13	6 27	0 48	16 20	1 45	20 31	12 22	22 52	22 43	21 5	16 56	2 17										
F 22	19 37	5 12	5 0	19 43	3 3	3 47	1 0	0 31	0 25	22 52	0 19	21 44	0 13	6 28	0 48	16 20	1 45	20 30	12 22	22 51	22 43	21 4	16 56	2 17										
S 23	19 23	0 26	5 8	19 52	2 54	3 20	1 8	0 13	0 23	22 52	0 19	21 43	0 12	6 28	0 48	16 20	1 45	20 30	12 22	22 51	22 43	21 3	16 57	2 18										
S 24	19 9	4s24	5 1	20 1	2 45	2 53	1 17	0n 6	0 23	22 52	0 19	21 42	0 12	6 29	0 48	16 20	1 45	20 29	12 22	22 50	22 42	21 1	16 58	2 18										
M 25	18 54	9 9	4 40	20 10	2 35	2 26	1 26	0 24	0 22	22 51	0 19	21 41	0 12	6 30	0 48	16 20	1 45	20 28	12 22	22 49	22 42	21 0	16 58	2 19										
T 26	18 39	13 35	4 3	20 19	2 25	1 59	1 35	0 43	0 21	22 51	0 18	21 40	0 12	6 30	0 48	16 20	1 45	20 28	12 22	22 49	22 42	20 59	16 59	2 19										
W 27	18 24	17 27	3 12	20 27	2 15	1 33	1 44	1 1	0 20	22 51	0 18	21 39	0 12	6 31	0 48	16 20	1 45	20 27	12 21	22 49	22 41	20 57	16 59	2 20										
T 28	18 8	20 28	2 10	20 34	2 4	1 7	1 53	1 20	0 19	22 51	0 18	21 39	0 12	6 32	0 48	16 20	1 45	20 26	12 21	22 49	22 41	20 56	17 0	2 20										
F 29	17 52	22 20	0 57	20 41	1 53	0 41	2 2	1 38	0 18	22 51	0 18	21 38	0 12	6 33	0 49	16 20	1 45	20 26	12 21	22 49	22 41	20 55	17 0	2 21										
S 30	17 36	22 48	0n20	20 47	1 42	0 15	2 12	1 56	0 17	22 51	0 18	21 37	0 12	6 34	0 49	16 20	1 45	20 25	12 21	22 49	22 40	20 53	17 1	2 21										
S 31	17s19	21s41	1n38	20s53	1n32	0n11	2n21	2n15	0s16	22n51	0s18	21s36	0n12	6n34	0n49	16n20	1s45	20s24	12s21	22s49	22s40	20n52	17s 1	2n22										

ASTRODIENST EPHEMERIS for the year 2049
geocentric

FEBRUARY 2049

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	8 46 35	12 ³³ 05	20 ³ 43	17 ³ 28	25 ³ 41	7 ⁰ 0	21 ⁰ R15	21 ³ 8	15 ⁰ R11	21 ⁸ 4	6 ³ 56	17 ⁰ R10	15 ³ 40	10 ³ 34	26 ⁰ M22	M 1
T 2	8 50 31	13 ³⁴ 00	5 ³ 48	18 ⁰ 20	26 ⁰ 20	7 ⁴⁴	21 ¹¹ 12	21 ⁰ 15	15 ⁰ 9	21 ⁰ 4	6 ⁵ 57	17 ³ 4	15 ⁰ 37	10 ⁰ 41	26 ⁰ 25	T 2
W 3	8 54 28	14 ³⁴ 54	20 ⁰ 50	19 ⁰ 16	26 ⁰ 59	8 ²⁸	21 ⁰ 10	21 ⁰ 21	15 ⁰ 6	21 ⁰ 4	6 ⁵ 59	16 ⁰ 56	15 ⁰ 34	10 ⁰ 47	26 ⁰ 29	W 3
T 4	8 58 24	15 ³⁵ 47	5 ³ 38	20 ⁰ 14	27 ⁰ 36	9 ¹²	21 ⁰ 8	21 ⁰ 28	15 ⁰ 4	21 ⁰ 4	7 ⁰ 0	16 ⁰ 46	15 ⁰ 31	10 ⁰ 54	26 ⁰ 33	T 4
F 5	9 2 21	16 ³⁶ 39	20 ⁰ 5	21 ⁰ 15	28 ⁰ 11	9 ⁵⁶	21 ⁰ 6	21 ⁰ 35	15 ⁰ 2	21 ⁰ 4	7 ⁰ 2	16 ⁰ 36	15 ⁰ 27	11 ⁰ 1	26 ⁰ 37	F 5
S 6	9 6 17	17 ³⁷ 30	4 ⁰ 6	22 ⁰ 19	28 ⁰ 46	10 ⁴⁰	21 ⁰ 4	21 ⁰ 42	15 ⁰ 0	21 ⁰ 5	7 ⁰ 4	16 ⁰ 28	15 ⁰ 24	11 ⁰ 7	26 ⁰ 40	S 6
S 7	9 10 14	18 ³⁸ 19	17 ⁰ 37	23 ⁰ 25	29 ⁰ 18	11 ²⁴	21 ⁰ 3	21 ⁰ 48	14 ⁰ 58	21 ⁰ 5	7 ⁰ 5	16 ⁰ 21	15 ⁰ 21	11 ⁰ 14	26 ⁰ 43	S 7
M 8	9 14 10	19 ³⁹ 06	0 ³ 40	24 ⁰ 33	29 ⁰ 50	12 ⁰ 7	21 ⁰ 1	21 ⁰ 55	14 ⁰ 55	21 ⁰ 5	7 ⁰ 7	16 ⁰ 17	15 ⁰ 18	11 ⁰ 21	26 ⁰ 47	M 8
T 9	9 18 7	20 ³⁹ 53	13 ⁰ 17	25 ⁰ 44	0 ⁰ 19	12 ⁰ 51	21 ⁰ 0	22 ⁰ 1	14 ⁰ 53	21 ⁰ 5	7 ⁰ 8	16 ⁰ 15	15 ⁰ 15	11 ⁰ 27	26 ⁰ 50	T 9
W10	9 22 4	21 ⁴⁰ 37	25 ⁰ 34	26 ⁰ 56	0 ⁴ 7	13 ⁰ 35	20 ⁰ 59	22 ⁰ 8	14 ⁰ 51	21 ⁰ 6	7 ⁰ 10	16 ⁰ D15	15 ⁰ 12	11 ⁰ 34	26 ⁰ 53	W10
T 11	9 26 0	22 ⁴¹ 20	7 ⁰ 36	28 ⁰ 10	1 ⁰ 14	14 ⁰ 19	20 ⁰ 59	22 ⁰ 14	14 ⁰ 48	21 ⁰ 6	7 ⁰ 12	16 ⁰ 15	15 ⁰ 8	11 ⁰ 41	26 ⁰ 56	T 11
F 12	9 29 57	23 ⁴² 02	19 ⁰ 27	29 ⁰ 25	1 ⁰ 38	15 ⁰ 3	20 ⁰ 58	22 ⁰ 21	14 ⁰ 46	21 ⁰ 7	7 ⁰ 13	16 ⁰ R16	15 ⁰ 5	11 ⁰ 47	26 ⁰ 59	F 12
S 13	9 33 53	24 ⁴² 42	1 ⁰ 14	0 ³ 42	2 ⁰ 1	15 ⁰ 46	20 ⁰ 58	22 ⁰ 27	14 ⁰ 44	21 ⁰ 7	7 ⁰ 15	16 ⁰ 14	15 ⁰ 2	11 ⁰ 54	27 ⁰ 2	S 13
S 14	9 37 50	25 ⁴³ 20	13 ⁰ 1	2 ⁰ 1	2 ⁰ 22	16 ⁰ 30	20 ⁰ D58	22 ⁰ 33	14 ⁰ 41	21 ⁰ 7	7 ⁰ 16	16 ⁰ 11	14 ⁰ 59	12 ⁰ 1	27 ⁰ 4	S 14
M15	9 41 46	26 ⁴³ 57	24 ⁰ 53	3 ⁰ 21	2 ⁰ 41	17 ⁰ 14	20 ⁰ 58	22 ⁰ 40	14 ⁰ 39	21 ⁰ 8	7 ⁰ 18	16 ⁰ 5	14 ⁰ 56	12 ⁰ 7	27 ⁰ 7	M15
T 16	9 45 43	27 ⁴⁴ 32	6 ⁰ 51	4 ⁰ 42	2 ⁰ 57	17 ⁰ 57	20 ⁰ 58	22 ⁰ 46	14 ⁰ 36	21 ⁰ 9	7 ⁰ 20	15 ⁰ 56	14 ⁰ 52	12 ⁰ 14	27 ⁰ 9	T 16
W17	9 49 39	28 ⁴⁵ 05	18 ⁰ 59	6 ⁰ 4	3 ⁰ 12	18 ⁰ 41	20 ⁰ 59	22 ⁰ 52	14 ⁰ 34	21 ⁰ 9	7 ⁰ 21	15 ⁰ 44	14 ⁰ 49	12 ⁰ 20	27 ⁰ 12	W17
T 18	9 53 36	29 ⁴⁵ 37	1 ⁰ 17	7 ⁰ 28	3 ⁰ 25	19 ⁰ 24	20 ⁰ 59	22 ⁰ 58	14 ⁰ 31	21 ⁰ 10	7 ⁰ 23	15 ⁰ 31	14 ⁰ 46	12 ⁰ 27	27 ⁰ 14	T 18
F 19	9 57 33	0 ³ 46'07	13 ⁰ 46	8 ⁰ 53	3 ⁰ 35	20 ⁰ 8	21 ⁰ 0	23 ⁰ 5	14 ⁰ 29	21 ⁰ 10	7 ⁰ 25	15 ⁰ 18	14 ⁰ 43	12 ⁰ 34	27 ⁰ 16	F 19
S 20	10 1 29	1 ⁰ 46'36	26 ⁰ 27	10 ⁰ 19	3 ⁰ 43	20 ⁰ 51	21 ⁰ 1	23 ⁰ 11	14 ⁰ 26	21 ⁰ 11	7 ⁰ 26	15 ⁰ 5	14 ⁰ 40	12 ⁰ 40	27 ⁰ 18	S 20
S 21	10 5 26	2 ⁰ 47'03	9 ⁰ 19	11 ⁰ 46	3 ⁰ 49	21 ⁰ 35	21 ⁰ 2	23 ⁰ 17	14 ⁰ 24	21 ⁰ 12	7 ⁰ 28	14 ⁰ 54	14 ⁰ 37	12 ⁰ 47	27 ⁰ 20	S 21
M22	10 9 22	3 ⁰ 47'29	22 ⁰ 23	13 ⁰ 14	3 ⁰ 52	22 ⁰ 18	21 ⁰ 4	23 ⁰ 23	14 ⁰ 21	21 ⁰ 13	7 ⁰ 30	14 ⁰ 45	14 ⁰ 33	12 ⁰ 54	27 ⁰ 22	M22
T 23	10 13 19	4 ⁰ 47'54	5 ⁰ 37	14 ⁰ 43	3 ⁰ R53	23 ⁰ 1	21 ⁰ 6	23 ⁰ 29	14 ⁰ 19	21 ⁰ 13	7 ⁰ 31	14 ⁰ 39	14 ⁰ 30	13 ⁰ 0	27 ⁰ 23	T 23
W24	10 17 15	5 ⁰ 48'17	19 ⁰ 4	16 ⁰ 13	3 ⁰ 51	23 ⁰ 45	21 ⁰ 8	23 ⁰ 35	14 ⁰ 16	21 ⁰ 14	7 ⁰ 33	14 ⁰ 37	14 ⁰ 27	13 ⁰ 7	27 ⁰ 25	W24
T 25	10 21 12	6 ⁰ 48'39	2 ⁰ 45	17 ⁰ 45	3 ⁰ 47	24 ⁰ 28	21 ⁰ 10	23 ⁰ 40	14 ⁰ 13	21 ⁰ 15	7 ⁰ 34	14 ⁰ 36	14 ⁰ 24	13 ⁰ 14	27 ⁰ 26	T 25
F 26	10 25 8	7 ⁰ 49'00	16 ⁰ 40	19 ⁰ 17	3 ⁰ 41	25 ⁰ 11	21 ⁰ 12	23 ⁰ 46	14 ⁰ 11	21 ⁰ 16	7 ⁰ 36	14 ⁰ 36	14 ⁰ 21	13 ⁰ 20	27 ⁰ 28	F 26
S 27	10 29 5	8 ⁰ 49'19	0 ³ 49	20 ⁰ 50	3 ⁰ 32	25 ⁰ 54	21 ⁰ 14	23 ⁰ 52	14 ⁰ 8	21 ⁰ 17	7 ⁰ 38	14 ⁰ 35	14 ⁰ 17	13 ⁰ 27	27 ⁰ 29	S 27
S 28	10 33 2	9 ³ 49'37	15 ³ 13	22 ³ 25	3 ⁰ Y20	26 ⁰ Y38	21 ⁰ 17	23 ³ 58	14 ⁰ 6	21 ⁰ 18	7 ³ 39	14 ³ 33	14 ³ 14	13 ³ 34	27 ⁰ M30	S 28

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	17s 2	19s 2	2n50	20s57	1n21	0n36	2n31	2n33	0s15	22n51	0s17	21s35	0n12	6n35	0n49	16n20	1s45	20s24	12s21	22s49	22s40	20n51	17s 2	2n22	
T 2	16 45	15 6	3 50	21 1	1 10	1 1	2 41	2 51	0 14	22 51	0 17	21 34	0 12	6 36	0 49	16 20	1 45	20 23	12 21	22 48	22 39	20 50	17 2	2 23	
W 3	16 27	10 13	4 34	21 4	1 0	1 25	2 52	3 9	0 13	22 51	0 17	21 33	0 12	6 37	0 49	16 20	1 45	20 22	12 21	22 47	22 39	20 48	17 2	2 23	
T 4	16 9	4 48	4 59	21 6	0 50	1 50	3 2	3 28	0 12	22 51	0 17	21 32	0 12	6 38	0 49	16 20	1 45	20 22	12 21	22 46	22 39	20 47	17 3	2 24	
F 5	15 51	0n44	5 4	21 6	0 39	2 13	3 12	3 46	0 11	22 51	0 17	21 31	0 12	6 39	0 49	16 20	1 44	20 21	12 21	22 45	22 38	20 46	17 3	2 24	
S 6	15 33	6 4	4 51	21 6	0 29	2 37	3 23	4 4	0 10	22 51	0 16	21 30	0 12	6 39	0 49	16 21	1 44	20 20	12 21	22 45	22 38	20 44	17 3	2 25	
S 7	15 14	10 56	4 21	21 5	0 20	3 0	3 34	4 22	0 9	22 52	0 16	21 29	0 12	6 40	0 49	16 21	1 44	20 20	12 21	22 44	22 38	20 43	17 4	2 25	
M 8	14 55	15 7	3 39	21 2	0 10	3 22	3 45	4 40	0 8	22 52	0 16	21 28	0 11	6 41	0 49	16 21	1 44	20 19	12 21	22 44	22 37	20 42	17 4	2 26	
T 9	14 36	18 28	2 47	20 59	0 1	3 44	3 56	4 58	0 7	22 52	0 16	21 27	0 11	6 42	0 49	16 21	1 44	20 18	12 20	22 43	22 37	20 40	17 4	2 27	
W10	14 17	20 54	1 48	20 54	0s 8	4 5	4 7	5 16	0 7	22 52	0 16	21 26	0 11	6 43	0 49	16 21	1 44	20 18	12 20	22 43	22 37	20 39	17 4	2 27	
T 11	13 57	22 20	0 46	20 48	0 17	4 26	4 18	5 33	0 6	22 52	0 16	21 25	0 11	6 44	0 49	16 21	1 44	20 17	12 20	22 43	22 36	20 37	17 4	2 28	
F 12	13 37	22 44	0s17	20 40	0 25	4 46	4 30	5 51	0 5	22 52	0 15	21 24	0 11	6 45	0 49	16 21	1 44	20 16	12 20	22 43	22 36	20 36	17 4	2 28	
S 13	13 17	22 7	1 19	20 32	0 33	5 6	4 41	6 9	0 4	22 52	0 15	21 23	0 11	6 46	0 49	16 22	1 44	20 16	12 20	22 43	22 36	20 35	17 4	2 29	
S 14	12 57	20 31	2 17	20 22	0 41	5 25	4 53	6 26	0 3	22 52	0 15	21 22	0 11	6 47	0 49	16 22	1 44	20 15	12 20	22 43	22 35	20 33	17 5	2 29	
M15	12 36	18 2	3 10	20 12	0 49	5 43	5 4	6 44	0 2	22 53	0 15	21 21	0 11	6 48	0 49	16 22	1 44	20 14	12 20	22 42	22 35	20 32	17 5	2 30	
T 16	12 15	14 46	3 55	19 59	0 56	6 0	5 16	7 1	0 1	22 53	0 15	21 20	0 11	6 49	0 49	16 22	1 44	20 14	12 20	22 41	22 34	20 31	17 5	2 30	
W17	11 54	10 52	4 29	19 46	1 3	6 17	5 27	7 19	0 0	22 53	0 15	21 19	0 11	6 50	0 49	16 22	1 44	20 13	12 20	22 40	22 34	20 29	17 5	2 31	
T 18	11 33	6 28	4 52	19 31	1 10	6 32	5 39	7 36	0n 0	22 53	0 14	21 18	0 11	6 51	0 49	16 23	1 44	20 13	12 20	22 39	22 34	20 28	17 5	2 32	
F 19	11 12	1 45	5 1	19 15	1 16	6 47	5 51	7 53	0 1	22 53	0 14	21 17	0 11	6 52	0 49	16 23	1 44	20 12	12 20	22 37	22 33	20 26	17 4	2 32	
S 20	10 50	3s 6	4 55	18 58	1 22	7 1	6 2	8 10	0 2	22 54	0 14	21 16	0 11	6 53	0 49	16 23	1 44	20 11	12 20	22 36	22 33	20 25	17 4	2 33	
S 21	10 29	7 54	4 34	18 40	1 28	7 14	6 14	8 27	0 3	22 54	0 14	21 15	0 11	6 54	0 49	16 23	1 43	20 11	12 20	22 35	22 33	20 24	17 4	2 33	
M22	10 7	12 24	3 59	18 20	1 33	7 26	6 25	8 44	0 4	22 54	0 14	21 14	0 11	6 55	0 49	16 24	1 43	20 10	12 20	22 34	22 32	20 22	17 4	2 34	
T 23	9 45	16 23	3 11	17 59	1 38	7 36	6 37	9 1	0 4	22 55	0 14	21 13	0 10	6 56	0 49	16 24	1 43	20 9	12 20	22 33	22 32	20 21	17 4	2 34	
W24	9 23	19 35	2 11	17 37	1 43	7 46	6 48	9 18	0 5	22 55	0 13	21 12	0 10	6 57	0 49	16 24	1 43	20 9	12 20	22 33	22 32	20 19	17 4	2 35	
T 25	9 1	21 43	1 2	17 13	1 47	7 54	6 58	9 34	0 6	22 55	0 13	21 11	0 10	6 58	0 49	16 24	1 43	20 8	12 20	22 33	22 31	20 18	17 3	2 35	
F 26	8 38	22 35	0n11	16 48	1 52	8 1	7 9	9 51	0 7	22 55	0 13	21 10	0 10	6 59	0 49	16 25	1 43	20 8	12 20	22 33	22 31	20 17	17 3	2 36	
S 27	8 16	22 1	1 25	16 22	1 55	8 7	7 19	10 7	0 8	22 56	0 13	21 9	0 10	7 0	0 49	16 25	1 43	20 7	12 20	22 33	22 30	20 15	17 3	2 37	
S 28	7s53	20s 1	2n34	15s54	1s59	8n12	7n29	10n24	0n 8	22n56	0s13	21s 9	0n10	7n 1	0n49	16n25	1s43	20s 6	12s20	22s32	22s30	20n14	17s 3	2n37	

ASTRODIENST EPHEMERIS for the year 2049

geocentric

MARCH 2049

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	10 36 58	10 ^h 49'53	29 ^h 34'48	24 ^h 38 0	3 ^h R 6	27 ^h Y21	21 ^h II20	24 ^h 3 3	14 ^h R 3	21 ^h 819	7 ^h K41	14 ^h R28	14 ^h 711	13 ^h 340	27 ^h M31	M 1
T 2	10 40 55	11 ^h 50'08	14 ^h 30	25 ^h 37	2 ^h Y50	28 ^h 4	21 ^h 23	24 ^h 9	14 ^h M 0	21 ^h 20	7 ^h 43	14 ^h 720	14 ^h 8	13 ^h 47	27 ^h 32	T 2
W 3	10 44 51	12 ^h 50'21	29 ^h 11	27 ^h 14	2 ^h 31	28 ^h 47	21 ^h 26	24 ^h 14	13 ^h 58	21 ^h 21	7 ^h 44	14 ^h 9	14 ^h 5	13 ^h 54	27 ^h 33	W 3
T 4	10 48 48	13 ^h 50'32	13 ^h 44	28 ^h 53	2 ^h 9	29 ^h 30	21 ^h 30	24 ^h 20	13 ^h 55	21 ^h 22	7 ^h 46	13 ^h 57	14 ^h 2	14 ^h 0	27 ^h 34	T 4
F 5	10 52 44	14 ^h 50'41	28 ^h 1	0 ^h K32	1 ^h 46	0 ^h 813	21 ^h 33	24 ^h 25	13 ^h 52	21 ^h 23	7 ^h 48	13 ^h 45	13 ^h 58	14 ^h 7	27 ^h 34	F 5
S 6	10 56 41	15 ^h 50'49	11 ^h Y57	2 ^h 13	1 ^h 20	0 ^h 56	21 ^h 37	24 ^h 30	13 ^h 50	21 ^h 24	7 ^h 49	13 ^h 33	13 ^h 55	14 ^h 14	27 ^h 35	S 6
S 7	11 0 37	16 ^h 50'54	25 ^h 28	3 ^h 55	0 ^h 53	1 ^h 39	21 ^h 41	24 ^h 36	13 ^h 47	21 ^h 25	7 ^h 51	13 ^h 24	13 ^h 52	14 ^h 20	27 ^h 35	S 7
M 8	11 4 34	17 ^h 50'58	8 ^h 33	5 ^h 37	0 ^h 23	2 ^h 22	21 ^h 45	24 ^h 41	13 ^h 45	21 ^h 26	7 ^h 53	13 ^h 18	13 ^h 49	14 ^h 27	27 ^h 35	M 8
T 9	11 8 31	18 ^h 50'59	21 ^h 14	7 ^h 21	29 ^h K52	3 ^h 4	21 ^h 49	24 ^h 46	13 ^h 42	21 ^h 28	7 ^h 54	13 ^h 14	13 ^h 46	14 ^h 34	27 ^h 35	T 9
W10	11 12 27	19 ^h 50'59	3 ^h II34	9 ^h 6	29 ^h 19	3 ^h 47	21 ^h 54	24 ^h 51	13 ^h 39	21 ^h 29	7 ^h 56	13 ^h 13	13 ^h 43	14 ^h 40	27 ^h R35	W10
T 11	11 16 24	20 ^h 50'56	15 ^h 38	10 ^h 53	28 ^h 44	4 ^h 30	21 ^h 59	24 ^h 56	13 ^h 37	21 ^h 30	7 ^h 58	13 ^h 12	13 ^h 39	14 ^h 47	27 ^h 35	T 11
F 12	11 20 20	21 ^h 50'51	27 ^h 32	12 ^h 40	28 ^h 9	5 ^h 13	22 ^h 3	25 ^h 1	13 ^h 34	21 ^h 32	7 ^h 59	13 ^h 12	13 ^h 36	14 ^h 54	27 ^h 35	F 12
S 13	11 24 17	22 ^h 50'44	9 ^h 321	14 ^h 28	27 ^h 33	5 ^h 55	22 ^h 8	25 ^h 6	13 ^h 32	21 ^h 33	8 ^h 1	13 ^h 11	13 ^h 33	15 ^h 0	27 ^h 35	S 13
S 14	11 28 13	23 ^h 50'34	21 ^h 9	16 ^h 18	26 ^h 55	6 ^h 38	22 ^h 14	25 ^h 11	13 ^h 29	21 ^h 34	8 ^h 2	13 ^h 8	13 ^h 30	15 ^h 7	27 ^h 35	S 14
M15	11 32 10	24 ^h 50'23	3 ^h Ω 4	18 ^h 9	26 ^h 18	7 ^h 21	22 ^h 19	25 ^h 15	13 ^h 26	21 ^h 36	8 ^h 4	13 ^h 3	13 ^h 27	15 ^h 14	27 ^h 34	M15
T 16	11 36 6	25 ^h 50'09	15 ^h 7	20 ^h 1	25 ^h 40	8 ^h 3	22 ^h 25	25 ^h 20	13 ^h 24	21 ^h 37	8 ^h 6	12 ^h 55	13 ^h 23	15 ^h 20	27 ^h 33	T 16
W17	11 40 3	26 ^h 49'53	27 ^h 23	21 ^h 54	25 ^h 2	8 ^h 46	22 ^h 30	25 ^h 25	13 ^h 21	21 ^h 38	8 ^h 7	12 ^h 44	13 ^h 20	15 ^h 27	27 ^h 33	W17
T 18	11 44 0	27 ^h 49'35	9 ^h M53	23 ^h 48	24 ^h 25	9 ^h 28	22 ^h 36	25 ^h 29	13 ^h 19	21 ^h 40	8 ^h 9	12 ^h 32	13 ^h 17	15 ^h 34	27 ^h 32	T 18
F 19	11 47 56	28 ^h 49'15	22 ^h 39	25 ^h 44	23 ^h 48	10 ^h 11	22 ^h 42	25 ^h 34	13 ^h 16	21 ^h 41	8 ^h 10	12 ^h 19	13 ^h 14	15 ^h 40	27 ^h 31	F 19
S 20	11 51 53	29 ^h 48'53	5 ^h Ω39	27 ^h 40	23 ^h 12	10 ^h 53	22 ^h 48	25 ^h 38	13 ^h 14	21 ^h 43	8 ^h 12	12 ^h 6	13 ^h 11	15 ^h 47	27 ^h 30	S 20
S 21	11 55 49	0 ^h Y48'28	18 ^h 53	29 ^h 38	22 ^h 37	11 ^h 35	22 ^h 55	25 ^h 42	13 ^h 11	21 ^h 45	8 ^h 13	11 ^h 56	13 ^h 8	15 ^h 54	27 ^h 29	S 21
M22	11 59 46	1 ^h 48'02	2 ^h M19	1 ^h Y36	22 ^h 3	12 ^h 18	23 ^h 1	25 ^h 46	13 ^h 9	21 ^h 46	8 ^h 15	11 ^h 48	13 ^h 4	16 ^h 0	27 ^h 27	M22
T 23	12 3 42	2 ^h 47'35	15 ^h 55	3 ^h 36	21 ^h 31	13 ^h 0	23 ^h 8	25 ^h 51	13 ^h 6	21 ^h 48	8 ^h 17	11 ^h 42	13 ^h 1	16 ^h 7	27 ^h 26	T 23
W24	12 7 39	3 ^h 47'05	29 ^h 39	5 ^h 36	21 ^h 1	13 ^h 42	23 ^h 14	25 ^h 55	13 ^h 4	21 ^h 49	8 ^h 18	11 ^h 40	12 ^h 58	16 ^h 14	27 ^h 25	W24
T 25	12 11 35	4 ^h 46'34	13 ^h Y31	7 ^h 37	20 ^h 32	14 ^h 24	23 ^h 21	25 ^h 59	13 ^h 2	21 ^h 51	8 ^h 20	11 ^h D39	12 ^h 55	16 ^h 20	27 ^h 23	T 25
F 26	12 15 32	5 ^h 46'01	27 ^h 30	9 ^h 39	20 ^h 5	15 ^h 6	23 ^h 28	26 ^h 2	12 ^h 59	21 ^h 53	8 ^h 21	11 ^h 40	12 ^h 52	16 ^h 27	27 ^h 21	F 26
S 27	12 19 28	6 ^h 45'26	11 ^h 35	11 ^h 41	19 ^h 41	15 ^h 48	23 ^h 36	26 ^h 6	12 ^h 57	21 ^h 54	8 ^h 23	11 ^h R40	12 ^h 49	16 ^h 34	27 ^h 20	S 27
S 28	12 23 25	7 ^h 44'49	25 ^h 46	13 ^h 43	19 ^h 18	16 ^h 31	23 ^h 43	26 ^h 10	12 ^h 55	21 ^h 56	8 ^h 24	11 ^h 38	12 ^h 45	16 ^h 40	27 ^h 18	S 28
M29	12 27 22	8 ^h 44'11	10 ^h 31	15 ^h 45	18 ^h 58	17 ^h 13	23 ^h 51	26 ^h 14	12 ^h 52	21 ^h 58	8 ^h 26	11 ^h 35	12 ^h 42	16 ^h 47	27 ^h 16	M29
T 30	12 31 18	9 ^h 43'31	24 ^h 17	17 ^h 47	18 ^h 40	17 ^h 55	23 ^h 58	26 ^h 17	12 ^h 50	22 ^h 0	8 ^h 27	11 ^h 29	12 ^h 39	16 ^h 54	27 ^h 14	T 30
W31	12 35 15	10 ^h Y42'49	8 ^h K30	19 ^h Y48	18 ^h K25	18 ^h 36	24 ^h II 6	26 ^h 321	12 ^h M48	22 ^h 8 1	8 ^h K28	11 ^h Y21	12 ^h Y36	17 ^h 30	27 ^h M12	W31

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	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
M 1	7s30	16s41	3n35	15s26	2s 1	8n15	7n39	10n40	0n 9	22n56	0s13	21s 8	0n10	7n 2	0n49	16n26	1s43	20s 6	12s21	22s32	22s30	20n12	17s 2	2n38	17s 2	2n38	
T 2	7 7	12 19	4 21	14 56	2 4	8 17	7 48	10 56	0 10	22 57	0 12	21 7	0 10	7 3	0 49	16 26	1 43	20 5	12 21	22 31	22 29	20 11	17 2	2 38	2 38		
W 3	6 44	7 13	4 50	14 24	2 6	8 17	7 57	11 12	0 11	22 57	0 12	21 6	0 10	7 4	0 49	16 26	1 43	20 5	12 21	22 30	22 29	20 9	17 2	2 39	2 39		
T 4	6 21	1 46	5 0	13 52	2 8	8 16	8 5	11 28	0 11	22 58	0 12	21 5	0 10	7 5	0 49	16 27	1 43	20 4	12 21	22 28	22 29	20 8	17 1	2 39	2 39		
F 5	5 58	3n40	4 51	13 18	2 9	8 13	8 12	11 44	0 12	22 58	0 12	21 4	0 10	7 6	0 49	16 27	1 43	20 4	12 21	22 27	22 28	20 7	17 1	2 40	2 40		
S 6	5 35	8 47	4 25	12 43	2 10	8 9	8 19	12 0	0 13	22 58	0 12	21 3	0 10	7 7	0 49	16 27	1 43	20 3	12 21	22 25	22 28	20 5	17 0	2 41	2 41		
S 7	5 11	13 19	3 44	12 6	2 11	8 4	8 25	12 15	0 14	22 59	0 12	21 2	0 10	7 8	0 49	16 28	1 43	20 2	12 21	22 24	22 27	20 4	17 0	2 41	2 41		
M 8	4 48	17 4	2 52	11 29	2 11	7 57	8 30	12 31	0 14	22 59	0 11	21 1	0 10	7 9	0 49	16 28	1 43	20 2	12 21	22 23	22 27	20 2	16 59	2 42	2 42		
T 9	4 25	19 53	1 54	10 50	2 11	7 49	8 35	12 46	0 15	23 0	0 11	21 1	0 10	7 10	0 49	16 28	1 43	20 1	12 21	22 23	22 27	20 1	16 59	2 42	2 42		
W10	4 1	21 42	0 51	10 10	2 10	7 39	8 38	13 1	0 16	23 0	0 11	21 0	0 10	7 11	0 49	16 29	1 42	20 1	12 21	22 23	22 26	19 59	16 58	2 43	2 43		
T 11	3 38	22 27	0s13	9 28	2 9	7 28	8 41	13 17	0 17	23 0	0 11	20 59	0 9	7 12	0 49	16 29	1 42	20 0	12 21	22 23	22 26	19 58	16 58	2 43	2 43		
F 12	3 14	22 9	1 15	8 46	2 7	7 15	8 43	13 32	0 17	23 1	0 11	20 58	0 9	7 13	0 49	16 29	1 42	20 0	12 21	22 23	22 26	19 56	16 57	2 44	2 44		
S 13	2 50	20 53	2 14	8 2	2 5	7 2	8 44	13 46	0 18	23 1	0 11	20 57	0 9	7 14	0 49	16 30	1 42	19 59	12 22	22 23	22 25	19 55	16 56	2 45	2 45		
S 14	2 27	18 42	3 7	7 17	2 2	6 47	8 44	14 1	0 19	23 2	0 11	20 56	0 9	7 15	0 49	16 30	1 42	19 59	12 22	22 22	22 25	19 53	16 56	2 45	2 45		
M15	2 3	15 42	3 52	6 31	1 59	6 31	8 43	14 16	0 19	23 2	0 10	20 56	0 9	7 16	0 49	16 31	1 42	19 58	12 22	22 21	22 24	19 52	16 55	2 46	2 46		
T 16	1 39	12 2	4 27	5 43	1 55	6 14	8 41	14 30	0 20	23 3	0 10	20 55	0 9	7 17	0 49	16 31	1 42	19 58	12 22	22 20	22 24	19 50	16 54	2 46	2 46		
W17	1 16	7 49	4 51	4 55	1 51	5 57	8 38	14 45	0 21	23 3	0 10	20 54	0 9	7 18	0 49	16 32	1 42	19 57	12 22	22 19	22 24	19 49	16 54	2 47	2 47		
T 18	0 52	3 13	5 1	4 5	1 46	5 38	8 34	14 59	0 21	23 4	0 10	20 53	0 9	7 19	0 49	16 32	1 42	19 57	12 22	22 17	22 23	19 47	16 53	2 47	2 47		
F 19	0 28	1s37	4 56	3 15	1 41	5 19	8 29	15 13	0 22	23 4	0 10	20 53	0 9	7 20	0 49	16 32	1 42	19 56	12 22	22 16	22 23	19 46	16 52	2 48	2 48		
S 20	0 4	6 29	4 37	2 23	1 35	5 0	8 23	15 27	0 23	23 5	0 10	20 52	0 9	7 20	0 49	16 33	1 42	19 56	12 22	22 14	22 22	19 44	16 51	2 49	2 49		
S 21	0n19	11 7	4 2	1 30	1 29	4 40	8 16	15 40	0 23	23 5	0 9	20 51	0 9	7 21	0 49	16 33	1 42	19 55	12 23	22 13	22 22	19 43	16 51	2 49	2 49		
M22	0 43	15 17	3 13	0 37	1 22	4 20	8 9	15 54	0 24	23 6	0 9	20 50	0 9	7 22	0 49	16 34	1 42	19 55	12 23	22 12	22 22	19 41	16 50	2 50	2 50		
T 23	1 7	18 42	2 12	0n17	1 15	4 0	8 1	16 8	0 25	23 6	0 9	20 50	0 9	7 23	0 49	16 34	1 42	19 54	12 23	22 11	22 21	19 40	16 49	2 50	2 50		
W24	1 30	21 6	1 3	1 12	1 7	3 40	7 52	16 21	0 25	23 7	0 9	20 49	0 9	7 24	0 49	16 35	1 42	19 54	12 23	22 11	22 21	19 38	16 48	2 51	2 51		
T 25	1 54	22 15	0n10	2 8	0 58	3 20	7 42	16 34	0 26	23 7	0 9	20 48	0 9	7 25	0 49	16 35	1 42	19 54	12 23	22 11	22 20	19 37	16 47	2 51	2 51		
F 26	2 17	22 1	1 23	3 4	0 49	3 0	7 32	16 47	0 27	23 8	0 9	20 48	0 9	7 26	0 49	16 36	1 42	19 53	12 23	22 11	22 20	19 35	16 46	2 52	2 52		
S 27	2 41	20 24	2 32	4 0	0 40	2 41	7 21	17 0	0 27	23 8	0 9	20 47	0 8	7 27	0 49	16 36	1 42	19 53	12 24	22 11	22 20	19 34	16 45	2 53	2 53		
S 28	3 4	17 30	3 32	4 57	0 30	2 22	7 10	17 13	0 28	23 8	0 9	20 46	0 8	7 28	0 49	16 37	1 42	19 52	12 24	22 10	22 19	19 32	16 44	2 53	2 53		
M29	3 28	13 34	4 20	5 54	0 20	2 3	6 58	17 25	0 28	23 9	0 8	20 46	0 8	7 29	0 49	16 37	1 42	19 52	12 24	22 10	22 19	19 31	16 43	2 54	2 54		
T 30	3 51	8 51	4 51	6 50	0 9	1 45	6 46	17 38	0 29	23 9	0 8	20 45	0 8	7 29	0 49	16 37	1 42	19 52	12 24	22 9	22 18	19 29	16 42	2 54	2 54		
W31	4n14	3s41	5n 4	7n46	0n 2	1n28	6n34	17n50	0n30	23n10	0s 8	20s45	0n 8	7n30	0n49	16n38	1s41	19s51	12s24	22s 8	22s18	19n28	16s41	2n55	2n55		

ASTRODIENST EPHEMERIS for the year 2049

geocentric

APRIL 2049

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 39 11	11°42'05	22°37'37	21°48'18	18°R12	19°8'18	24°11'14	26°32'24	12°R46	22°8'3	8°30'30	11°R11	12°33'33	17°52'7	27°R9	T 1
F 2	12 43 8	12°41'19	6°31'31	23°48'18	18°2'2	20°0'0	24°22'22	26°27'27	12°43'43	22°5'5	8°31'31	11°1'1	12°29'29	17°14'14	27°7'7	F 2
S 3	12 47 4	13°40'31	20°8'8	25°45'17	17°54'54	20°42'42	24°30'30	26°30'30	12°41'41	22°7'7	8°33'33	10°52'52	12°26'26	17°20'20	27°5'5	S 3
S 4	12 51 1	14°39'41	3°8'27	27°40'40	17°49'49	21°24'24	24°38'38	26°34'34	12°39'39	22°9'9	8°34'34	10°44'44	12°23'23	17°27'27	27°2'2	S 4
M 5	12 54 57	15°38'50	16°24'24	29°33'33	17°45'45	22°6'6	24°47'47	26°37'37	12°37'37	22°10'10	8°35'35	10°39'39	12°20'20	17°34'34	27°0'0	M 5
T 6	12 58 54	16°37'55	29°2'2	1°8'24	17°D45	22°47'47	24°56'56	26°40'40	12°35'35	22°12'12	8°37'37	10°36'36	12°17'17	17°40'40	26°57'57	T 6
W 7	13 2 51	17°36'59	11°11'21	3°11'11	17°47'47	23°29'29	25°4'4	26°42'42	12°33'33	22°14'14	8°38'38	10°D36	12°14'14	17°47'47	26°54'54	W 7
T 8	13 6 47	18°36'01	23°26'26	4°54'54	17°51'51	24°11'11	25°13'13	26°45'45	12°31'31	22°16'16	8°40'40	10°36'36	12°10'10	17°54'54	26°51'51	T 8
F 9	13 10 44	19°35'00	5°52'52	6°34'34	17°57'57	24°52'52	25°22'22	26°48'48	12°29'29	22°18'18	8°41'41	10°37'37	12°7'7	18°0'0	26°48'48	F 9
S 10	13 14 40	20°33'57	17°12'12	8°10'10	18°5'5	25°34'34	25°31'31	26°50'50	12°27'27	22°20'20	8°42'42	10°R38	12°4'4	18°7'7	26°45'45	S 10
S 11	13 18 37	21°32'52	29°2'2	9°41'41	18°16'16	26°15'15	25°40'40	26°53'53	12°25'25	22°22'22	8°43'43	10°38'38	12°1'1	18°14'14	26°42'42	S 11
M12	13 22 33	22°31'44	10°58'58	11°7'7	18°29'29	26°57'57	25°50'50	26°55'55	12°24'24	22°24'24	8°45'45	10°36'36	11°58'58	18°20'20	26°39'39	M12
T 13	13 26 30	23°30'34	23°4'4	12°29'29	18°44'44	27°38'38	25°59'59	26°58'58	12°22'22	22°26'26	8°46'46	10°32'32	11°54'54	18°27'27	26°36'36	T 13
W14	13 30 26	24°29'22	5°11'25	13°45'45	19°0'0	28°20'20	26°9'9	27°0'0	12°20'20	22°28'28	8°47'47	10°26'26	11°51'51	18°34'34	26°32'32	W14
T 15	13 34 23	25°28'08	18°2'2	14°56'56	19°19'19	29°1'1	26°18'18	27°2'2	12°18'18	22°30'30	8°48'48	10°19'19	11°48'48	18°40'40	26°29'29	T 15
F 16	13 38 20	26°26'51	0°59'59	16°2'2	19°40'40	29°42'42	26°28'28	27°4'4	12°17'17	22°32'32	8°50'50	10°12'12	11°45'45	18°47'47	26°26'26	F 16
S 17	13 42 16	27°25'33	14°16'16	17°2'2	20°2'2	0°11'24	26°38'38	27°6'6	12°15'15	22°34'34	8°51'51	10°4'4	11°42'42	18°54'54	26°22'22	S 17
S 18	13 46 13	28°24'12	27°50'50	17°56'56	20°26'26	1°5'5	26°48'48	27°8'8	12°13'13	22°36'36	8°52'52	9°58'58	11°39'39	19°0'0	26°18'18	S 18
M19	13 50 9	29°22'49	11°11'11	18°44'44	20°52'52	1°46'46	26°58'58	27°10'10	12°12'12	22°39'39	8°53'53	9°53'53	11°35'35	19°7'7	26°15'15	M19
T 20	13 54 6	0°8'21'25	25°42'42	19°27'27	21°20'20	2°27'27	27°8'8	27°11'11	12°10'10	22°41'41	8°54'54	9°50'50	11°32'32	19°14'14	26°11'11	T 20
W21	13 58 2	1°19'59	9°52'52	20°4'4	21°49'49	3°8'8	27°18'18	27°13'13	12°9'9	22°43'43	8°55'55	9°D50	11°29'29	19°21'21	26°7'7	W21
T 22	14 1 59	2°18'31	24°6'6	20°34'34	22°19'19	3°49'49	27°28'28	27°14'14	12°8'8	22°45'45	8°57'57	9°50'50	11°26'26	19°27'27	26°3'3	T 22
F 23	14 5 55	3°17'02	8°32'32	20°59'59	22°51'51	4°31'31	27°39'39	27°16'16	12°6'6	22°47'47	8°58'58	9°52'52	11°23'23	19°34'34	26°0'0	F 23
S 24	14 9 52	4°15'31	22°36'36	21°18'18	23°25'25	5°12'12	27°49'49	27°17'17	12°5'5	22°49'49	8°59'59	9°53'53	11°20'20	19°41'41	25°56'56	S 24
S 25	14 13 49	5°13'59	6°57'57	21°31'31	23°59'59	5°52'52	28°0'0	27°18'18	12°4'4	22°51'51	9°0'0	9°R53	11°16'16	19°47'47	25°52'52	S 25
M26	14 17 45	6°12'24	20°52'52	21°38'38	24°35'35	6°33'33	28°11'11	27°19'19	12°2'2	22°54'54	9°1'1	9°52'52	11°13'13	19°54'54	25°48'48	M26
T 27	14 21 42	7°10'49	4°51'51	21°R40	25°13'13	7°14'14	28°22'22	27°20'20	12°1'1	22°56'56	9°2'2	9°50'50	11°10'10	20°1'1	25°44'44	T 27
W28	14 25 38	8°9'11	18°40'40	21°36'36	25°51'51	7°55'55	28°33'33	27°21'21	12°0'0	22°58'58	9°3'3	9°46'46	11°7'7	20°7'7	25°39'39	W28
T 29	14 29 35	9°7'32	2°12'20	21°26'26	26°30'30	8°36'36	28°44'44	27°22'22	11°59'59	23°0'0	9°4'4	9°42'42	11°4'4	20°14'14	25°35'35	T 29
F 30	14 33 31	10°8'5'52	15°14'47	21°8'12	27°11'11	9°11'17	28°11'55	27°32'22	11°58'58	23°8'2	9°11'5	9°11'37	11°11'0	20°52'12	25°11'31	F 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
T 1	4n38	1n38	4n58	8n42	0n13	1n12	6n22	18n 2	0n30	23n10	0s 8	20s44	0n 8	7n31	0n49	16n38	1s41	19s51	12s25	22s 7	22s18	19n26	16s40	2n55	
F 2	5 1	6 47	4 35	9 37	0 25	0 56	6 9	18 14	0 31	23 11	0 8	20 43	0 8	7 32	0 49	16 39	1 41	19 50	12 25	22 5	22 17	19 25	16 39	2 56	
S 3	5 24	11 31	3 56	10 31	0 36	0 41	5 56	18 26	0 31	23 11	0 8	20 43	0 8	7 33	0 49	16 39	1 41	19 50	12 25	22 4	22 17	19 23	16 38	2 56	
S 4	5 47	15 34	3 5	11 23	0 48	0 27	5 43	18 37	0 32	23 12	0 8	20 42	0 8	7 33	0 49	16 40	1 41	19 50	12 25	22 3	22 16	19 21	16 37	2 57	
M 5	6 9	18 45	2 6	12 14	1 0	0 14	5 30	18 49	0 32	23 12	0 7	20 42	0 8	7 34	0 49	16 41	1 41	19 49	12 25	22 2	22 16	19 20	16 36	2 57	
T 6	6 32	20 56	1 2	13 4	1 11	0 1	5 17	19 0	0 33	23 13	0 7	20 41	0 8	7 35	0 49	16 41	1 41	19 49	12 26	22 2	22 16	19 18	16 35	2 58	
W 7	6 55	22 4	0s 4	13 52	1 22	0s10	5 4	19 11	0 34	23 13	0 7	20 41	0 8	7 36	0 49	16 42	1 41	19 49	12 26	22 2	22 15	19 17	16 34	2 58	
T 8	7 17	22 8	1 9	14 37	1 33	0 20	4 51	19 22	0 34	23 14	0 7	20 40	0 8	7 36	0 49	16 42	1 41	19 49	12 26	22 2	22 15	19 15	16 33	2 59	
F 9	7 40	21 10	2 9	15 20	1 44	0 30	4 38	19 32	0 35	23 14	0 7	20 40	0 8	7 37	0 49	16 43	1 41	19 48	12 26	22 2	22 14	19 14	16 31	2 59	
S 10	8 2	19 17	3 4	16 1	1 54	0 38	4 25	19 43	0 35	23 15	0 7	20 39	0 8	7 38	0 48	16 43	1 41	19 48	12 27	22 2	22 14	19 12	16 30	3 0	
S 11	8 24	16 34	3 51	16 40	2 4	0 46	4 12	19 53	0 36	23 15	0 7	20 39	0 8	7 39	0 48	16 44	1 41	19 48	12 27	22 2	22 13	19 10	16 29	3 0	
M12	8 46	13 10	4 28	17 16	2 13	0 53	4 0	20 3	0 36	23 15	0 7	20 39	0 7	7 39	0 48	16 44	1 41	19 47	12 27	22 2	22 13	19 9	16 28	3 1	
T 13	9 8	9 11	4 54	17 49	2 21	0 58	3 47	20 13	0 37	23 16	0 6	20 38	0 7	7 40	0 48	16 45	1 41	19 47	12 27	22 1	22 13	19 7	16 27	3 1	
W14	9 29	4 45	5 7	18 19	2 29	1 3	3 35	20 23	0 37	23 16	0 6	20 38	0 7	7 41	0 48	16 45	1 41	19 47	12 28	22 0	22 12	19 6	16 25	3 2	
T 15	9 51	0 2	5 6	18 47	2 35	1 7	3 23	20 33	0 38	23 17	0 6	20 38	0 7	7 41	0 48	16 46	1 41	19 47	12 28	21 59	22 12	19 4	16 24	3 2	
F 16	10 12	4s48	4 49	19 12	2 41	1 10	3 11	20 42	0 38	23 17	0 6	20 37	0 7	7 42	0 48	16 46	1 41	19 46	12 28	21 58	22 11	19 2	16 23	3 3	
S 17	10 33	9 33	4 16	19 34	2 46	1 12	2 59	20 52	0 39	23 17	0 6	20 37	0 7	7 42	0 48	16 47	1 41	19 46	12 28	21 57	22 11	19 1	16 22	3 3	
S 18	10 54	13 56	3 28	19 53	2 50	1 13	2 47	21 1	0 39	23 18	0 6	20 37	0 7	7 43	0 48	16 47	1 41	19 46	12 29	21 56	22 10	18 59	16 20	3 4	
M19	11 15	17 39	2 27	20 9	2 53	1 13	2 36	21 10	0 40	23 18	0 6	20 36	0 7	7 44	0 48	16 48	1 41	19 46	12 29	21 56	22 10	18 58	16 19	3 4	
T 20	11 36	20 25	1 16	20 23	2 54	1 13	2 25	21 18	0 40	23 18	0 6	20 36	0 7	7 44	0 48	16 49	1 41	19 46	12 29	21 55	22 10	18 56	16 18	3 5	
W21	11 56	21 55	0n 0	20 33	2 55	1 12	2 14	21 27	0 41	23 19	0 5	20 36	0 7	7 45	0 48	16 49	1 41	19 45	12 29	21 55	22 9	18 54	16 16	3 5	
T 22	12 16	22 1	1 17	20 41	2 54	1 9	2 3	21 35	0 41	23 19	0 5	20 36	0 7	7 45	0 48	16 50	1 41	19 45	12 30	21 55	22 9	18 53	16 15	3 6	
F 23	12 36	20 41	2 29	20 46	2 52	1 6	1 53	21 43	0 42	23 19	0 5	20 35	0 7	7 46	0 48	16 50	1 41	19 45	12 30	21 55	22 8	18 51	16 14	3 6	
S 24	12 56	18 3	3 32	20 48	2 49	1 3	1 43	21 51	0 42	23 20	0 5	20 35	0 7	7 46	0 48	16 51	1 41	19 45	12 30	21 56	22 8	18 49	16 12	3 7	
S 25	13 16	14 21	4 22	20 47	2 44	0 58	1 33	21 59	0 43	23 20	0 5	20 35	0 7	7 46	0 48	16 51	1 41	19 45	12 31	21 56	22 7	18 48	16 11	3 7	
M26	13 35	9 52	4 55	20 43	2 39	0 53	1 23	22 6	0 43	23 20	0 5	20 35	0 7	7 47	0 48	16 52	1 41	19 45	12 31	21 55	22 7	18 46	16 10	3 7	
T 27	13 54	4 54	5 11	20 37	2 32	0 47	1 13	22 14	0 44	23 21	0 5	20 35	0 6	7 47	0 48	16 53	1 41	19 45	12 31	21 55	22 7	18 45	16 8	3 8	
W28	14 13	0n15	5 8	20 28	2 23	0 40	1 4	22 21	0 44	23 21	0 5	20 35	0 6	7 48	0 48	16 53	1 41	19 44	12 31	21 55	22 6	18 43	16 7	3 8	
T 29	14 32	5 20	4 48	20 16	2 14	0 33	0 55	22 28	0 44	23 21	0 5	20 35	0 6	7 48	0 48	16 54	1 41	19 44	12 32	21 54	22 6	18 41	16 6	3 9	
F 30	14n50	10n 5	4n13	20n 2	2n 3	0s25	0n46	22n34	0n45	23n21	0s 4	20s35	0n 6	7n48	0n48	16n54	1s41	19s44	12s32	21s53	22s 5	18n40	16s 4	3n	

ASTRODIENST EPHEMERIS for the year 2049

geocentric

MAY 2049

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 37 28	11♌ 4°10'	28♏59	20°R53	27♏53	9♏58	29♏ 6	27♏23	11°R57	23♏ 4	9♏ 6	9°R33	10♏57	20♏27	25°R27	S 1
S 2	14 41 24	12° 2'26"	11♌57	20♏30	28°35	10°38	29°17	27°23	11♏56	23° 7	9° 7	9♏29	10°54	20°34	25♏23	S 2
M 3	14 45 21	13° 0'40"	24°39	20° 3	29°19	11°19	29°28	27°24	11°55	23° 9	9° 7	9°27	10°51	20°41	25°18	M 3
T 4	14 49 17	13°58'53"	7♏ 6	19°33	0°Y 4	12° 0	29°40	27°24	11°55	23°11	9° 8	9°D26	10°48	20°47	25°14	T 4
W 5	14 53 14	14°57'04"	19°19	19° 0	0°49	12°40	29°51	27°24	11°54	23°13	9° 9	9°27	10°45	20°54	25°10	W 5
T 6	14 57 11	15°55'13"	1♏22	18°25	1°35	13°21	0♏ 3	27°R24	11°53	23°16	9°10	9°28	10°41	21° 1	25° 5	T 6
F 7	15 1 7	16°53'20"	13°16	17°49	2°22	14° 1	0°14	27°24	11°52	23°18	9°11	9°29	10°38	21° 7	25° 1	F 7
S 8	15 5 4	17°51'25"	25° 7	17°12	3°10	14°42	0°26	27°24	11°52	23°20	9°11	9°31	10°35	21°14	24°56	S 8
S 9	15 9 0	18°49'29"	6♏57	16°35	3°59	15°22	0°38	27°24	11°51	23°22	9°12	9°32	10°32	21°21	24°52	S 9
M10	15 12 57	19°47'30"	18°53	15°58	4°48	16° 3	0°50	27°24	11°51	23°25	9°13	9°R33	10°29	21°27	24°47	M10
T 11	15 16 53	20°45'30"	0♏59	15°23	5°38	16°43	1° 2	27°23	11°50	23°27	9°14	9°32	10°26	21°34	24°43	T 11
W12	15 20 50	21°43'27"	13°20	14°49	6°29	17°24	1°14	27°23	11°50	23°29	9°14	9°31	10°22	21°41	24°39	W12
T 13	15 24 46	22°41'23"	25°59	14°18	7°20	18° 4	1°26	27°22	11°49	23°31	9°15	9°29	10°19	21°47	24°34	T 13
F 14	15 28 43	23°39'17"	8♏59	13°49	8°12	18°44	1°38	27°22	11°49	23°34	9°16	9°27	10°16	21°54	24°30	F 14
S 15	15 32 40	24°37'10"	22°23	13°24	9° 5	19°24	1°50	27°21	11°49	23°36	9°16	9°25	10°13	22° 1	24°25	S 15
S 16	15 36 36	25°35'01"	6♏10	13° 2	9°58	20° 5	2° 2	27°20	11°49	23°38	9°17	9°23	10°10	22° 7	24°21	S 16
M17	15 40 33	26°32'50"	20°17	12°44	10°52	20°45	2°14	27°19	11°49	23°40	9°17	9°22	10° 6	22°14	24°16	M17
T 18	15 44 29	27°30'38"	4♏42	12°31	11°46	21°25	2°27	27°18	11°49	23°43	9°18	9°D22	10° 3	22°21	24°12	T 18
W19	15 48 26	28°28'25"	19°18	12°21	12°41	22° 5	2°39	27°17	11°D49	23°45	9°18	9°22	10° 0	22°27	24° 7	W19
T 20	15 52 22	29°26'10"	3♏59	12°16	13°36	22°45	2°52	27°15	11°49	23°47	9°19	9°22	9°57	22°34	24° 3	T 20
F 21	15 56 19	0♏23'54"	18°39	12°D16	14°32	23°25	3° 4	27°14	11°49	23°49	9°19	9°23	9°54	22°41	23°58	F 21
S 22	16 0 16	1°21'37"	3♏12	12°20	15°29	24° 5	3°17	27°13	11°49	23°52	9°20	9°24	9°51	22°48	23°54	S 22
S 23	16 4 12	2°19'19"	17°34	12°29	16°25	24°45	3°29	27°11	11°49	23°54	9°20	9°24	9°47	22°54	23°50	S 23
M24	16 8 9	3°17'00"	1♏42	12°42	17°22	25°25	3°42	27° 9	11°49	23°56	9°21	9°R25	9°44	23° 1	23°45	M24
T 25	16 12 5	4°14'39"	15°35	13° 0	18°20	26° 5	3°54	27° 8	11°49	23°58	9°21	9°24	9°41	23° 8	23°41	T 25
W26	16 16 2	5°12'18"	29°10	13°22	19°18	26°45	4° 7	27° 6	11°50	24° 1	9°21	9°24	9°38	23°14	23°36	W26
T 27	16 19 58	6° 9'56"	12♏30	13°48	20°17	27°25	4°20	27° 4	11°50	24° 3	9°22	9°24	9°35	23°21	23°32	T 27
F 28	16 23 55	7° 7'33"	25°34	14°19	21°15	28° 5	4°33	27° 2	11°51	24° 5	9°22	9°24	9°32	23°28	23°28	F 28
S 29	16 27 51	8° 5'09"	8♏24	14°54	22°14	28°45	4°46	27° 0	11°51	24° 7	9°22	9°23	9°28	23°34	23°24	S 29
S 30	16 31 48	9° 2'44"	21° 1	15°32	23°14	29°24	4°59	26°58	11°52	24° 9	9°23	9°D23	9°25	23°41	23°19	S 30
M31	16 35 45	10♏ 0'18"	3♏25	16♏15	24♏14	0♏ 4	5°512	26♏56	11♏52	24♏12	9♏23	9°R23	9♏22	23♏48	23♏15	M31

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	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
S 1	15n 9	14n17	3n24	19n45	1n51	0s16	0n37	22n41	0n45	23n21	0s 4	20s35	0n 6	7n49	0n48	16n55	1s41	19s44	12s32	21s53	22s 5	18n38	16s 3	3n10	
S 2	15 27	17 43	2 25	19 26	1 38	0 7	0 29	22 47	0 46	23 22	0 4	20 35	0 6	7 49	0 48	16 55	1 41	19 44	12 33	21 52	22 4	18 36	16 2	3 10	
M 3	15 44	20 14	1 20	19 5	1 23	0n 3	0 21	22 53	0 46	23 22	0 4	20 35	0 6	7 49	0 48	16 56	1 41	19 44	12 33	21 52	22 4	18 35	16 0	3 10	
T 4	16 2	21 42	0 13	18 42	1 8	0 13	0 13	22 59	0 47	23 22	0 4	20 35	0 6	7 50	0 48	16 56	1 41	19 44	12 33	21 52	22 3	18 33	15 59	3 11	
W 5	16 19	22 6	0s54	18 18	0 52	0 24	0 5	23 5	0 47	23 22	0 4	20 35	0 6	7 50	0 48	16 57	1 41	19 44	12 34	21 52	22 3	18 31	15 57	3 11	
T 6	16 36	21 28	1 58	17 53	0 36	0 35	0s 3	23 11	0 47	23 22	0 4	20 35	0 6	7 50	0 48	16 58	1 41	19 44	12 34	21 52	22 3	18 30	15 56	3 11	
F 7	16 53	19 51	2 56	17 26	0 19	0 47	0 10	23 16	0 48	23 22	0 4	20 35	0 6	7 50	0 48	16 58	1 41	19 44	12 34	21 52	22 2	18 28	15 55	3 12	
S 8	17 9	17 24	3 46	16 59	0 1	1 0	0 17	23 21	0 48	23 22	0 4	20 35	0 6	7 51	0 47	16 59	1 41	19 44	12 35	21 52	22 2	18 26	15 53	3 12	
S 9	17 25	14 14	4 26	16 32	0s16	1 13	0 24	23 26	0 49	23 22	0 3	20 35	0 6	7 51	0 47	16 59	1 41	19 44	12 35	21 52	22 1	18 25	15 52	3 12	
M10	17 41	10 28	4 56	16 5	0 33	1 26	0 31	23 31	0 49	23 22	0 3	20 35	0 6	7 51	0 47	17 0	1 41	19 44	12 35	21 53	22 1	18 23	15 50	3 13	
T 11	17 56	6 15	5 12	15 38	0 51	1 40	0 37	23 35	0 49	23 22	0 3	20 35	0 5	7 51	0 47	17 0	1 41	19 44	12 36	21 52	22 0	18 21	15 49	3 13	
W12	18 11	1 42	5 15	15 12	1 8	1 54	0 44	23 40	0 50	23 22	0 3	20 35	0 5	7 51	0 47	17 1	1 41	19 44	12 36	21 52	22 0	18 20	15 48	3 13	
T 13	18 26	3s 2	5 3	14 47	1 24	2 9	0 50	23 44	0 50	23 22	0 3	20 36	0 5	7 51	0 47	17 2	1 41	19 44	12 36	21 52	21 59	18 18	15 46	3 14	
F 14	18 41	7 46	4 35	14 23	1 40	2 24	0 56	23 48	0 50	23 22	0 3	20 36	0 5	7 51	0 47	17 2	1 40	19 44	12 37	21 52	21 59	18 16	15 45	3 14	
S 15	18 55	12 17	3 52	14 2	1 55	2 39	1 1	23 51	0 51	23 22	0 3	20 36	0 5	7 51	0 47	17 3	1 40	19 44	12 37	21 51	21 58	18 15	15 44	3 14	
S 16	19 9	16 18	2 54	13 41	2 9	2 55	1 7	23 55	0 51	23 22	0 3	20 36	0 5	7 51	0 47	17 3	1 40	19 44	12 37	21 51	21 58	18 13	15 42	3 15	
M17	19 23	19 29	1 44	13 23	2 23	3 11	1 12	23 58	0 52	23 22	0 3	20 37	0 5	7 51	0 47	17 4	1 40	19 44	12 38	21 51	21 57	18 11	15 41	3 15	
T 18	19 36	21 30	0 26	13 7	2 35	3 28	1 17	24 1	0 52	23 22	0 3	20 37	0 5	7 51	0 47	17 4	1 40	19 45	12 38	21 51	21 57	18 9	15 40	3 15	
W19	19 49	22 5	0n55	12 54	2 46	3 45	1 22	24 4	0 52	23 22	0 2	20 37	0 5	7 51	0 47	17 5	1 40	19 45	12 38	21 51	21 57	18 8	15 38	3 15	
T 20	20 1	21 10	2 12	12 43	2 57	4 2	1 27	24 7	0 53	23 22	0 2	20 37	0 5	7 51	0 47	17 5	1 40	19 45	12 39	21 51	21 56	18 6	15 37	3 16	
F 21	20 14	18 49	3 21	12 34	3 6	4 19	1 32	24 9	0 53	23 22	0 2	20 38	0 5	7 51	0 47	17 6	1 40	19 45	12 39	21 51	21 56	18 4	15 36	3 16	
S 22	20 26	15 17	4 16	12 27	3 14	4 37	1 36	24 11	0 53	23 21	0 2	20 38	0 5	7 51	0 47	17 7	1 41	19 45	12 39	21 51	21 55	18 3	15 34	3 16	
S 23	20 37	10 53	4 55	12 23	3 21	4 55	1 40	24 13	0 54	23 21	0 2	20 38	0 5	7 51	0 47	17 7	1 41	19 45	12 40	21 51	21 55	18 1	15 33	3 16	
M24	20 48	5 58	5 14	12 21	3 27	5 13	1 44	24 15	0 54	23 21	0 2	20 39	0 4	7 51	0 47	17 8	1 41	19 45	12 40	21 51	21 54	17 59	15 32	3 17	
T 25	20 59	0 50	5 15	12 21	3 33	5 31	1 48	24 17	0 54	23 21	0 2	20 39	0 4	7 51	0 47	17 8	1 41	19 46	12 40	21 51	21 54	17 57	15 30	3 17	
W26	21 10	4n14	4 59	12 24	3 37	5 49	1 52	24 18	0 55	23 20	0 2	20 40	0 4	7 51	0 47	17 9	1 41	19 46	12 41	21 51	21 53	17 56	15 29	3 17	
T 27	21 20	9 1	4 26	12 29	3 40	6 8	1 56	24 19	0 55	23 20	0 2	20 40	0 4	7 50	0 47	17 9	1 41	19 46	12 41	21 51	21 53	17 54	15 28	3 17	
F 28	21 30	13 18	3 40	12 36	3 42	6 27	1 59	24 20	0 55	23 20	0 1	20 41	0 4	7 50	0 47	17 10	1 41	19 46	12 41	21 51	21 52	17 52	15 27	3 18	
S 29	21 39	16 53	2 44	12 45	3 43	6 46	2 2	24 21	0 56	23 19	0 1	20 41	0 4	7 50	0 47	17 10	1 41	19 46	12 42	21 51	21 52	17 50	15 25	3 18	
S 30	21 48	19 37	1 40	12 55	3 43	7 5	2 5	24 22	0 56	23 19	0 1	20 42	0 4	7 50	0 47	17 11	1 41	19 47	12 42	21 51	21 51	17 49	15 24	3 18	
M31	21n57	21n22	0n33	13n 8	3s43	7n24	2s 8	24n22	0n56	23n19	0s 1	20s42	0n 4	7n49	0n47	17n11	1s41	19s47	12s42	21s51	21s51	17n47	15s23	3n18	

ASTRODIENST EPHEMERIS for the year 2049

geocentric

JUNE 2049

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 39 41	10 ^{II} 57'51	15 ^{II} 38	17 ^{III} 1	25 ^V 14	0 ^{III} 44	5 ^{III} 25	26 ^R 53	11 ^{III} 53	24 ^{III} 14	9 ^{III} 23	9 ^R 23	9 ^{III} 19	23 ^{III} 54	23 ^R 11	T 1
W 2	16 43 38	11°55'23	27°42	17°51	26°14	1°24	5°38	26 ^{III} 51	11°54	24°16	9°23	9 ^{III} 23	9°16	24°1	23 ^{III} 7	W 2
T 3	16 47 34	12°52'54	9 ^{III} 39	18°45	27°15	2°3	5°51	26°48	11°54	24°18	9°23	9°23	9°12	24°8	23°3	T 3
F 4	16 51 31	13°50'24	21°31	19°42	28°16	2°43	6°4	26°46	11°55	24°20	9°23	9°22	9°9	24°14	22°59	F 4
S 5	16 55 27	14°47'53	3 ^{III} 21	20°42	29°18	3°23	6°17	26°43	11°56	24°22	9°24	9°22	9°6	24°21	22°55	S 5
S 6	16 59 24	15°45'20	15°12	21°46	0 ^{III} 19	4°2	6°30	26°40	11°57	24°25	9°24	9°21	9°3	24°28	22°51	S 6
M 7	17 3 20	16°42'46	27°8	22°53	1°21	4°42	6°43	26°38	11°58	24°27	9°24	9°20	9°0	24°34	22°47	M 7
T 8	17 7 17	17°40'11	9 ^{III} 13	24°3	2°23	5°21	6°57	26°35	11°59	24°29	9°24	9°20	8°57	24°41	22°44	T 8
W 9	17 11 14	18°37'35	21°31	25°16	3°26	6°1	7°10	26°32	12°0	24°31	9°R24	9°D20	8°53	24°48	22°40	W 9
T 10	17 15 10	19°34'58	4 ^{III} 7	26°33	4°29	6°40	7°23	26°29	12°1	24°33	9°24	9°20	8°50	24°55	22°36	T 10
F 11	17 19 7	20°32'20	17°5	27°52	5°31	7°20	7°36	26°26	12°3	24°35	9°24	9°21	8°47	25°1	22°33	F 11
S 12	17 23 3	21°29'41	0 ^{III} 27	29°14	6°35	7°59	7°50	26°22	12°4	24°37	9°24	9°22	8°44	25°8	22°29	S 12
S 13	17 27 0	22°27'01	14°15	0 ^{III} 40	7°38	8°38	8°3	26°19	12°5	24°39	9°24	9°23	8°41	25°15	22°26	S 13
M14	17 30 56	23°24'20	28°29	2°8	8°42	9°18	8°16	26°16	12°6	24°41	9°23	9°23	8°37	25°21	22°22	M14
T 15	17 34 53	24°21'38	13 ^{III} 5	3°40	9°45	9°57	8°30	26°13	12°8	24°43	9°23	9°R24	8°34	25°28	22°19	T 15
W16	17 38 49	25°18'56	27°59	5°14	10°49	10°36	8°43	26°9	12°9	24°45	9°23	9°23	8°31	25°35	22°16	W16
T 17	17 42 46	26°16'13	13 ^{III} 2	6°51	11°54	11°16	8°57	26°6	12°11	24°47	9°23	9°22	8°28	25°41	22°13	T 17
F 18	17 46 43	27°13'29	28°5	8°31	12°58	11°55	9°10	26°2	12°12	24°49	9°23	9°20	8°25	25°48	22°9	F 18
S 19	17 50 39	28°10'45	13 ^{III} 0	10°14	14°3	12°34	9°24	25°59	12°14	24°51	9°23	9°17	8°22	25°55	22°6	S 19
S 20	17 54 36	29°8'01	27°40	12°0	15°8	13°13	9°37	25°55	12°15	24°53	9°22	9°15	8°18	26°1	22°3	S 20
M21	17 58 32	0 ^{III} 5'16	11 ^{III} 59	13°48	16°13	13°53	9°51	25°51	12°17	24°55	9°22	9°14	8°15	26°8	22°1	M21
T 22	18 2 29	1°2'32	25°55	15°39	17°18	14°32	10°4	25°47	12°19	24°57	9°22	9°D13	8°12	26°15	21°58	T 22
W23	18 6 25	1°59'47	9°V27	17°33	18°23	15°11	10°18	25°44	12°21	24°59	9°21	9°13	8°9	26°21	21°55	W23
T 24	18 10 12	2°57'02	22°37	19°29	19°29	15°50	10°31	25°40	12°22	25°1	9°21	9°14	8°6	26°28	21°52	T 24
F 25	18 14 18	3°54'17	5 ^{III} 28	21°28	20°34	16°29	10°45	25°36	12°24	25°3	9°21	9°15	8°3	26°35	21°50	F 25
S 26	18 18 15	4°51'32	18°1	23°29	21°40	17°8	10°58	25°32	12°26	25°4	9°20	9°17	7°59	26°42	21°47	S 26
S 27	18 22 12	5°48'47	0 ^{III} 22	25°31	22°46	17°47	11°12	25°28	12°28	25°6	9°20	9°18	7°56	26°48	21°45	S 27
M28	18 26 8	6°46'01	12°31	27°36	23°52	18°26	11°26	25°24	12°30	25°8	9°19	9°R18	7°53	26°55	21°43	M28
T 29	18 30 5	7°43'16	24°33	29°43	24°59	19°5	11°39	25°20	12°32	25°10	9°19	9°17	7°50	27°2	21°40	T 29
W30	18 34 1	8 ^{III} 40'31	6 ^{III} 28	1 ^{III} 50	26 ^{III} 5	19 ^{III} 44	11 ^{III} 53	25 ^{III} 15	12 ^{III} 34	25 ^{III} 12	9 ^{III} 18	9 ^{III} 15	7 ^{III} 47	27 ^{III} 8	21 ^{III} 38	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	22n 5	22n 5	0s35	13n22	3s41	7n44	2s11	24n22	0n56	23n18	0s 1	20s43	0n 4	7n49	0n46	17n12	1s41	19s47	12s43	21s51	21s50	17n45	15s22	3n18	
W 2	22 13	21 45	1 40	13 38	3 39	8 3	2 14	24 22	0 57	23 18	0 1	20 43	0 4	7 49	0 46	17 12	1 41	19 47	12 43	21 51	21 50	17 43	15 21	3 18	
T 3	22 20	20 25	2 40	13 56	3 36	8 23	2 16	24 22	0 57	23 17	0 1	20 44	0 4	7 49	0 46	17 13	1 41	19 48	12 43	21 51	21 49	17 42	15 19	3 19	
F 4	22 27	18 12	3 33	14 14	3 33	8 42	2 18	24 22	0 57	23 17	0 1	20 44	0 4	7 48	0 46	17 13	1 41	19 48	12 44	21 51	21 49	17 40	15 18	3 19	
S 5	22 34	15 14	4 17	14 34	3 28	9 2	2 20	24 21	0 58	23 16	0 1	20 45	0 3	7 48	0 46	17 14	1 41	19 48	12 44	21 51	21 48	17 38	15 17	3 19	
S 6	22 40	11 39	4 49	14 56	3 23	9 21	2 22	24 20	0 58	23 16	0 1	20 45	0 3	7 47	0 46	17 14	1 41	19 48	12 45	21 51	21 48	17 36	15 16	3 19	
M 7	22 46	7 36	5 10	15 18	3 17	9 41	2 24	24 19	0 58	23 15	0 1	20 46	0 3	7 47	0 46	17 15	1 41	19 49	12 45	21 51	21 48	17 35	15 15	3 19	
T 8	22 52	3 13	5 17	15 41	3 11	10 1	2 26	24 18	0 58	23 15	0 0	20 47	0 3	7 47	0 46	17 15	1 41	19 49	12 45	21 51	21 47	17 33	15 14	3 19	
W 9	22 57	1s23	5 10	16 6	3 4	10 21	2 27	24 16	0 59	23 14	0 0	20 47	0 3	7 46	0 46	17 16	1 41	19 49	12 46	21 51	21 47	17 31	15 13	3 19	
T 10	23 1	6 2	4 48	16 31	2 57	10 40	2 29	24 15	0 59	23 13	0 0	20 48	0 3	7 46	0 46	17 16	1 41	19 50	12 46	21 51	21 46	17 29	15 12	3 20	
F 11	23 6	10 34	4 11	16 56	2 49	11 0	2 30	24 13	0 59	23 13	0 0	20 49	0 3	7 45	0 46	17 17	1 41	19 50	12 46	21 51	21 46	17 28	15 11	3 20	
S 12	23 10	14 44	3 19	17 22	2 40	11 20	2 31	24 11	0 59	23 12	0 0	20 49	0 3	7 45	0 46	17 17	1 41	19 50	12 47	21 51	21 45	17 26	15 10	3 20	
S 13	23 13	18 15	2 15	17 49	2 31	11 39	2 32	24 9	1 0	23 11	0n 0	20 50	0 3	7 44	0 46	17 18	1 41	19 51	12 47	21 51	21 45	17 24	15 9	3 20	
M14	23 16	20 47	1 0	18 16	2 22	11 59	2 33	24 6	1 0	23 11	0 0	20 51	0 3	7 44	0 46	17 18	1 41	19 51	12 47	21 51	21 44	17 22	15 8	3 20	
T 15	23 19	22 1	0n20	18 43	2 12	12 18	2 34	24 4	1 0	23 10	0 0	20 51	0 3	7 43	0 46	17 19	1 41	19 52	12 48	21 51	21 44	17 20	15 7	3 20	
W16	23 21	21 44	1 41	19 10	2 2	12 37	2 34	24 1	1 0	23 9	0 0	20 52	0 3	7 42	0 46	17 19	1 41	19 52	12 48	21 51	21 43	17 19	15 6	3 20	
T 17	23 23	19 53	2 55	19 37	1 51	12 56	2 35	23 58	1 1	23 8	0 0	20 53	0 3	7 42	0 46	17 20	1 41	19 52	12 48	21 51	21 43	17 17	15 5	3 20	
F 18	23 24	16 39	3 58	20 4	1 40	13 15	2 35	23 55	1 1	23 7	0 1	20 54	0 2	7 41	0 46	17 20	1 41	19 53	12 49	21 51	21 42	17 15	15 5	3 20	
S 19	23 25	12 23	4 43	20 30	1 29	13 34	2 36	23 51	1 1	23 7	0 1	20 54	0 2	7 41	0 46	17 21	1 41	19 53	12 49	21 50	21 42	17 13	15 4	3 20	
S 20	23 26	7 26	5 9	20 56	1 18	13 53	2 36	23 48	1 1	23 6	0 1	20 55	0 2	7 40	0 46	17 21	1 41	19 53	12 49	21 50	21 41	17 11	15 3	3 20	
M21	23 26	2 12	5 15	21 21	1 7	14 12	2 36	23 44	1 2	23 5	0 1	20 56	0 2	7 39	0 46	17 21	1 41	19 54	12 50	21 50	21 41	17 10	15 2	3 20	
T 22	23 26	3n 0	5 2	21 45	0 55	14 30	2 36	23 40	1 2	23 4	0 1	20 57	0 2	7 38	0 46	17 22	1 41	19 54	12 50	21 49	21 40	17 8	15 1	3 20	
W23	23 25	7 55	4 33	22 8	0 43	14 48	2 35	23 36	1 2	23 3	0 1	20 58	0 2	7 38	0 46	17 22	1 41	19 55	12 50	21 50	21 40	17 6	15 1	3 20	
T 24	23 24	12 21	3 49	22 29	0 32	15 6	2 35	23 31	1 2	23 2	0 1	20 58	0 2	7 37	0 46	17 23	1 41	19 55	12 51	21 50	21 39	17 4	15 0	3 20	
F 25	23 22	16 6	2 56	22 49	0 20	15 24	2 35	23 27	1 2	23 1	0 1	20 59	0 2	7 36	0 45	17 23	1 41	19 56	12 51	21 50	21 39	17 2	14 59	3 20	
S 26	23 21	19 2	1 54	23 7	0 9	15 42	2 34	23 22	1 3	23 0	0 1	21 0	0 2	7 36	0 45	17 23	1 41	19 56	12 51	21 50	21 38	17 1	14 59	3 20	
S 27	23 18	21 1	0 49	23 24	0n 2	15 59	2 33	23 17	1 3	22 59	0 1	21 1	0 2	7 35	0 45	17 24	1 41	19 57	12 52	21 50	21 38	16 59	14 58	3 21	
M28	23 16	22 0	0s18	23 38	0 13	16 16	2 33	23 12	1 3	22 58	0 2	21 2	0 2	7 34	0 45	17 24	1 41	19 57	12 52	21 50	21 37	16 57	14 57	3 21	
T 29	23 12	21 57	1 23	23 50	0 24	16 33	2 32	23 7	1 3	22 57	0 2	21 2	0 1	7 33	0 45	17 25	1 41	19 58	12 52	21 50	21 36	16 55	14 57	3 21	
W30	23n 9	20n53	2s23	23n59	0n34	16n50	2s31	23n 2	1n 3	22n56	0n 2	21s 3	0n 1	7n32	0n45	17n25	1s41	19s58	12s53	21s50	21s36	16n53	14s56	3n21	

ASTRODIENST EPHEMERIS for the year 2049
geocentric

JULY 2049

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 37 58	9♂37'45	18♂20	3♂59	27♂12	20♂23	12♂6	25°R11	12♂37	25♂13	9°R18	9°R11	7♂43	27♂15	21°R36	T 1
F 2	18 41 54	10°34'59	0♂10	6°9	28°19	21°2	12°20	25♂7	12°39	25°15	9♂17	9♂6	7°40	27°22	21♂34	F 2
S 3	18 45 51	11°32'13	12°0	8°20	29°26	21°41	12°34	25°3	12°41	25°17	9°17	9°0	7°37	27°28	21°32	S 3
S 4	18 49 47	12°29'27	23°53	10°30	0♂33	22°20	12°47	24°59	12°43	25°18	9°16	8°55	7°34	27°35	21°31	S 4
M 5	18 53 44	13°26'40	5♂15	12°41	1°40	22°59	13°1	24°54	12°46	25°20	9°16	8°49	7°31	27°42	21°29	M 5
T 6	18 57 41	14°23'53	17°56	14°51	2°47	23°38	13°14	24°50	12°48	25°22	9°15	8°45	7°28	27°48	21°27	T 6
W 7	19 1 37	15°21'06	0♂14	17°1	3°54	24°17	13°28	24°46	12°50	25°23	9°14	8°42	7°24	27°55	21°26	W 7
T 8	19 5 34	16°18'19	12°47	19°10	5°2	24°56	13°42	24°41	12°53	25°25	9°14	8°D41	7°21	28°2	21°25	T 8
F 9	19 9 30	17°15'31	25°39	21°18	6°10	25°34	13°55	24°37	12°55	25°26	9°13	8°41	7°18	28°9	21°23	F 9
S 10	19 13 27	18°12'44	8♂55	23°25	7°17	26°13	14°9	24°32	12°58	25°28	9°12	8°43	7°15	28°15	21°22	S 10
S 11	19 17 23	19°9'56	22°37	25°30	8°25	26°52	14°22	24°28	13°0	25°29	9°12	8°44	7°12	28°22	21°21	S 11
M12	19 21 20	20°7'09	6♂46	27°34	9°33	27°31	14°36	24°24	13°3	25°31	9°11	8°R45	7°9	28°29	21°20	M12
T 13	19 25 16	21°4'21	21°21	29°37	10°41	28°9	14°49	24°19	13°5	25°32	9°10	8°44	7°5	28°35	21°19	T 13
W14	19 29 13	22°1'33	6♂38	1♂38	11°49	28°48	15°3	24°15	13°8	25°34	9°10	8°42	7°2	28°42	21°18	W14
T 15	19 33 10	22°58'46	21°29	3°37	12°58	29°27	15°16	24°10	13°11	25°35	9°9	8°37	6°59	28°49	21°18	T 15
F 16	19 37 6	23°55'59	6♂46	5°34	14°6	0♂5	15°30	24°6	13°14	25°37	9°8	8°32	6°56	28°55	21°17	F 16
S 17	19 41 3	24°53'12	21°58	7°30	15°15	0°44	15°43	24°1	13°16	25°38	9°7	8°25	6°53	29°2	21°17	S 17
S 18	19 44 59	25°50'26	6♂53	9°24	16°23	1°23	15°57	23°57	13°19	25°39	9°6	8°18	6°49	29°9	21°16	S 18
M19	19 48 56	26°47'40	21°25	11°16	17°32	2°1	16°10	23°53	13°22	25°41	9°5	8°13	6°46	29°15	21°16	M19
T 20	19 52 52	27°44'55	5°R30	13°7	18°41	2°40	16°24	23°48	13°25	25°42	9°4	8°9	6°43	29°22	21°16	T 20
W21	19 56 49	28°42'11	19°6	14°55	19°50	3°18	16°37	23°44	13°28	25°43	9°4	8°7	6°40	29°29	21°D16	W21
T 22	20 0 45	29°39'27	2♂16	16°42	20°59	3°57	16°51	23°39	13°31	25°44	9°3	8°D6	6°37	29°36	21°16	T 22
F 23	20 4 42	0♂36'45	15°1	18°27	22°8	4°36	17°4	23°35	13°34	25°46	9°2	8°7	6°34	29°42	21°16	F 23
S 24	20 8 39	1°34'03	27°27	20°10	23°18	5°14	17°17	23°31	13°37	25°47	9°1	8°8	6°30	29°49	21°16	S 24
S 25	20 12 35	2°31'22	9♂39	21°51	24°27	5°53	17°31	23°26	13°40	25°48	9°0	8°R8	6°27	29°56	21°17	S 25
M26	20 16 32	3°28'42	21°39	23°30	25°36	6°31	17°44	23°22	13°43	25°49	8°59	8°7	6°24	0♂2	21°17	M26
T 27	20 20 28	4°26'03	3♂33	25°8	26°46	7°10	17°57	23°17	13°46	25°50	8°58	8°4	6°21	0°9	21°18	T 27
W28	20 24 25	5°23'25	15°24	26°44	27°56	7°48	18°11	23°13	13°49	25°51	8°57	7°59	6°18	0°16	21°18	W28
T 29	20 28 21	6°20'47	27°13	28°18	29°5	8°27	18°24	23°9	13°52	25°52	8°56	7°51	6°15	0°22	21°19	T 29
F 30	20 32 18	7°18'10	9♂4	29°51	0♂15	9°5	18°37	23°5	13°55	25°53	8°55	7°41	6°11	0°29	21°20	F 30
S 31	20 36 14	8♂15'34	20♂57	1♂21	1♂25	9♂44	18♂50	23♂0	13♂59	25♂54	8♂54	7♂29	6♂8	0♂36	21♂21	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	decl lat	decl lat
T 1	23n 5	18n55 3s18	24n 6	0n44	17n 6	2s30	22n56	1n 4	22n55	0n 2	21s 4	0n 1	7n31	0n45	17n25	1s41
F 2	23 1 16 9	4 3	24 10	0 53	17 22	2 29	22 50	1 4	22 53	0 2	21 5	0 1	7 31	0 45	17 26	1 41
S 3	22 56	12 44	4 38	24 12	1 2	17 37	2 27	22 44	1 4	22 52	0 2	21 6	0 1	7 30	0 45	17 26
S 4	22 51	8 49	5 1	24 10	1 10	17 53	2 26	22 38	1 4	22 51	0 2	21 7	0 1	7 29	0 45	17 27
M 5	22 45	4 33	5 11	24 6	1 17	18 8	2 25	22 32	1 4	22 50	0 2	21 8	0 1	7 28	0 45	17 27
T 6	22 39	0 3	5 7	23 59	1 24	18 22	2 23	22 25	1 5	22 49	0 2	21 8	0 1	7 27	0 45	17 27
W 7	22 33	4s31	4 50	23 50	1 30	18 36	2 21	22 19	1 5	22 47	0 2	21 9	0 1	7 26	0 45	17 28
T 8	22 26	9 0	4 18	23 37	1 35	18 50	2 20	22 12	1 5	22 46	0 2	21 10	0 1	7 25	0 45	17 28
F 9	22 19	13 13	3 33	23 23	1 39	19 4	2 18	22 5	1 5	22 45	0 3	21 11	0 1	7 24	0 45	17 28
S 10	22 12	16 55	2 35	23 5	1 43	19 17	2 16	21 58	1 5	22 44	0 3	21 12	0 1	7 23	0 45	17 29
S 11	22 4	19 49	1 27	22 46	1 46	19 29	2 14	21 51	1 5	22 42	0 3	21 13	0 0	7 22	0 45	17 29
M12	21 55	21 37	0 11	22 24	1 48	19 42	2 12	21 43	1 5	22 41	0 3	21 14	0 0	7 21	0 45	17 29
T 13	21 47	22 1	1n 8	22 0	1 49	19 54	2 10	21 36	1 6	22 39	0 3	21 14	0 0	7 20	0 45	17 29
W14	21 38	20 53	2 24	21 34	1 50	20 5	2 8	21 28	1 6	22 38	0 3	21 15	0 0	7 19	0 45	17 30
T 15	21 29	18 15	3 30	21 7	1 50	20 16	2 6	21 20	1 6	22 37	0 3	21 16	0 0	7 18	0 45	17 30
F 16	21 19	14 20	4 22	20 38	1 49	20 26	2 4	21 12	1 6	22 35	0 3	21 17	0s 0	7 17	0 45	17 30
S 17	21 9	9 31	4 56	20 8	1 48	20 36	2 1	21 4	1 6	22 34	0 3	21 18	0 0	7 16	0 45	17 31
S 18	20 58	4 13	5 8	19 36	1 46	20 46	1 59	20 55	1 6	22 32	0 3	21 19	0 0	7 15	0 45	17 31
M19	20 47	1n12	5 0	19 3	1 43	20 55	1 57	20 47	1 6	22 31	0 4	21 20	0 0	7 13	0 45	17 31
T 20	20 36	6 23	4 34	18 29	1 40	21 3	1 54	20 38	1 7	22 29	0 4	21 21	0 0	7 12	0 45	17 31
W21	20 25	11 4	3 53	17 54	1 37	21 11	1 52	20 30	1 7	22 28	0 4	21 21	0 0	7 11	0 45	17 32
T 22	20 13	15 5	3 1	17 18	1 32	21 19	1 49	20 21	1 7	22 26	0 4	21 22	0 1	7 10	0 45	17 32
F 23	20 1	18 16	2 1	16 41	1 28	21 26	1 46	20 11	1 7	22 24	0 4	21 23	0 1	7 9	0 45	17 32
S 24	19 48	20 31	0 57	16 4	1 23	21 32	1 44	20 2	1 7	22 23	0 4	21 24	0 1	7 8	0 45	17 32
S 25	19 35	21 45	0s 8	15 26	1 17	21 38	1 41	19 53	1 7	22 21	0 4	21 25	0 1	7 6	0 45	17 33
M26	19 22	21 58	1 12	14 48	1 11	21 44	1 38	19 43	1 7	22 20	0 4	21 26	0 1	7 5	0 44	17 33
T 27	19 9	21 11	2 12	14 9	1 4	21 48	1 35	19 34	1 7	22 18	0 4	21 26	0 1	7 4	0 44	17 33
W28	18 55	19 28	3 6	13 30	0 58	21 53	1 32	19 24	1 7	22 16	0 4	21 27	0 1	7 3	0 44	17 33
T 29	18 41	16 55	3 51	12 51	0 50	21 56	1 29	19 14	1 8	22 15	0 5	21 28	0 1	7 2	0 44	17 33
F 30	18 26	13 41	4 27	12 12	0 43	21 59	1 27	19 4	1 8	22 13	0 5	21 29	0 1	7 0	0 44	17 34
S 31	18n12	9n54	4s51	11n32	0n35	22n 2	1s24	18n54	1n 8	22n11	0n 5	21s30	0s 1	6n59	0n44	17n34

Julian Day Number = 2469623.5, Delta T = 74.43 sec
Ecliptic obliquity = 23°25'54, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 25°25'54, Lahiri = 24°32'55

ASTRODIENST EPHEMERIS for the year 2049

geocentric

AUGUST 2049

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 40 11	9♏12'59	2♐55	2♐50	2♏35	10♏22	19♏3	22°R56	14♐2	25♏55	8°R53	7°R18	6♏5	0♏43	21♐22	S 1
M 2	20 44 8	10°10'24	14°59	4°17	3°45	11° 1	19°17	22♏52	14° 5	25°56	8♏52	7♏7	6° 2	0°49	21°23	M 2
T 3	20 48 4	11° 7'50	27°10	5°42	4°55	11°39	19°30	22°48	14° 8	25°57	8°51	6°58	5°59	0°56	21°24	T 3
W 4	20 52 1	12° 5'17	9♏32	7° 5	6° 6	12°17	19°43	22°44	14°12	25°58	8°49	6°51	5°55	1° 3	21°26	W 4
T 5	20 55 57	13° 2'44	22° 6	8°26	7°16	12°56	19°56	22°40	14°15	25°58	8°48	6°47	5°52	1° 9	21°27	T 5
F 6	20 59 54	14° 0'12	4♐57	9°45	8°26	13°34	20° 9	22°36	14°18	25°59	8°47	6°45	5°49	1°16	21°29	F 6
S 7	21 3 50	14°57'41	18° 7	11° 3	9°37	14°13	20°21	22°32	14°22	26° 0	8°46	6°D45	5°46	1°23	21°30	S 7
S 8	21 7 47	15°55'11	1♏40	12°18	10°47	14°51	20°34	22°28	14°25	26° 1	8°45	6°R45	5°43	1°29	21°32	S 8
M 9	21 11 43	16°52'41	15°39	13°31	11°58	15°29	20°47	22°24	14°29	26° 1	8°44	6°45	5°40	1°36	21°34	M 9
T 10	21 15 40	17°50'12	0♏3	14°42	13° 9	16° 8	21° 0	22°20	14°32	26° 2	8°43	6°43	5°36	1°43	21°36	T 10
W11	21 19 37	18°47'44	14°50	15°51	14°20	16°46	21°13	22°17	14°36	26° 3	8°41	6°39	5°33	1°49	21°38	W11
T 12	21 23 33	19°45'17	29°55	16°57	15°30	17°24	21°25	22°13	14°39	26° 3	8°40	6°32	5°30	1°56	21°40	T 12
F 13	21 27 30	20°42'51	15♏10	18° 1	16°41	18° 3	21°38	22° 9	14°43	26° 4	8°39	6°23	5°27	2° 3	21°43	F 13
S 14	21 31 26	21°40'26	0♏23	19° 2	17°52	18°41	21°51	22° 6	14°46	26° 4	8°38	6°13	5°24	2°10	21°45	S 14
S 15	21 35 23	22°38'03	15°24	20° 1	19° 4	19°19	22° 3	22° 2	14°50	26° 5	8°37	6° 3	5°21	2°16	21°47	S 15
M16	21 39 19	23°35'40	0♏3	20°57	20°15	19°57	22°16	21°59	14°53	26° 5	8°35	5°53	5°17	2°23	21°50	M16
T 17	21 43 16	24°33'19	24°16	21°49	21°26	20°36	22°28	21°55	14°57	26° 6	8°34	5°46	5°14	2°30	21°53	T 17
W18	21 47 12	25°31'00	17°58	22°39	22°37	21°14	22°41	21°52	15° 0	26° 6	8°33	5°42	5°11	2°36	21°55	W18
T 19	21 51 9	26°28'42	11♏11	23°26	23°49	21°52	22°53	21°49	15° 4	26° 6	8°32	5°39	5° 8	2°43	21°58	T 19
F 20	21 55 6	27°26'25	23°59	24° 9	25° 0	22°30	23° 5	21°46	15° 8	26° 7	8°31	5°D38	5° 5	2°50	22° 1	F 20
S 21	21 59 2	28°24'11	6♐24	24°48	26°12	23° 9	23°18	21°42	15°11	26° 7	8°29	5°R38	5° 1	2°56	22° 4	S 21
S 22	22 2 59	29°21'58	18°33	25°24	27°24	23°47	23°30	21°39	15°15	26° 7	8°28	5°38	4°58	3° 3	22° 7	S 22
M23	22 6 55	0♐19'47	0♏31	25°55	28°35	24°25	23°42	21°36	15°19	26° 7	8°27	5°36	4°55	3°10	22°11	M23
T 24	22 10 52	1°17'37	12°23	26°23	29°47	25° 3	23°54	21°34	15°22	26° 8	8°26	5°32	4°52	3°17	22°14	T 24
W25	22 14 48	2°15'29	24°12	26°45	0♐59	25°42	24° 6	21°31	15°26	26° 8	8°24	5°25	4°49	3°23	22°17	W25
T 26	22 18 45	3°13'23	6♏2	27° 3	2°11	26°20	24°18	21°28	15°30	26° 8	8°23	5°15	4°46	3°30	22°21	T 26
F 27	22 22 41	4°11'18	17°56	27°16	3°23	26°58	24°30	21°25	15°34	26° 8	8°22	5° 3	4°42	3°37	22°24	F 27
S 28	22 26 38	5° 9'15	29°55	27°23	4°35	27°36	24°41	21°23	15°37	26° 8	8°20	4°49	4°39	3°43	22°28	S 28
S 29	22 30 35	6° 7'13	12♐2	27°R25	5°47	28°14	24°53	21°20	15°41	26°R 8	8°19	4°35	4°36	3°50	22°32	S 29
M30	22 34 31	7° 5'13	24°16	27°21	6°59	28°53	25° 5	21°18	15°45	26° 8	8°18	4°22	4°33	3°57	22°36	M30
T 31	22 38 28	8♐3'14	6♏39	27♐11	8♏12	29♏31	25♏16	21♏15	15♐48	26♏8	8♏17	4♏11	4♏30	4♏4	22♐40	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	17n57	5n43	5s 2	10n53	0n27	22n 4	1s21	18n43	1n 8	22n 9	0n 5	21s30	0s 1	6n58	0n44	S 1
M 2	17 41	1 18	5 0	10 13	0 18	22 5	1 18	18 33	1 8	22 8	0 5	21 31	0 2	6 57	0 44	M 2
T 3	17 26	3s14	4 45	9 34	0 10	22 6	1 15	18 23	1 8	22 6	0 5	21 32	0 2	6 55	0 44	T 3
W 4	17 10	7 42	4 16	8 55	0 0	22 6	1 11	18 12	1 8	22 4	0 5	21 33	0 2	6 54	0 44	W 4
T 5	16 54	11 55	3 34	8 16	0s 9	22 6	1 8	18 1	1 8	22 2	0 5	21 33	0 2	6 53	0 44	T 5
F 6	16 37	15 41	2 41	7 38	0 18	22 5	1 5	17 50	1 8	22 1	0 5	21 34	0 2	6 51	0 44	F 6
S 7	16 21	18 47	1 37	6 59	0 28	22 3	1 2	17 39	1 8	21 59	0 5	21 35	0 2	6 50	0 44	S 7
S 8	16 4	20 56	0 27	6 22	0 38	22 1	0 59	17 28	1 8	21 57	0 6	21 36	0 2	6 49	0 44	S 8
M 9	15 46	21 53	0n47	5 44	0 48	21 58	0 56	17 17	1 8	21 55	0 6	21 36	0 2	6 47	0 44	M 9
T 10	15 29	21 26	2 0	5 8	0 58	21 54	0 53	17 5	1 9	21 53	0 6	21 37	0 2	6 46	0 44	T 10
W11	15 11	19 30	3 7	4 32	1 8	21 50	0 50	16 54	1 9	21 51	0 6	21 38	0 2	6 45	0 44	W11
T 12	14 53	16 12	4 3	3 56	1 19	21 46	0 46	16 42	1 9	21 49	0 6	21 38	0 2	6 43	0 44	T 12
F 13	14 35	11 48	4 41	3 22	1 30	21 41	0 43	16 31	1 9	21 48	0 6	21 39	0 2	6 42	0 44	F 13
S 14	14 17	6 39	5 0	2 48	1 40	21 35	0 40	16 19	1 9	21 46	0 6	21 40	0 3	6 40	0 44	S 14
S 15	13 58	1 11	4 57	2 15	1 51	21 28	0 37	16 7	1 9	21 44	0 6	21 40	0 3	6 39	0 44	S 15
M16	13 39	4n14	4 35	1 44	2 2	21 21	0 34	15 55	1 9	21 42	0 6	21 41	0 3	6 38	0 44	M16
T 17	13 20	9 15	3 57	1 13	2 12	21 13	0 30	15 43	1 9	21 40	0 6	21 42	0 3	6 36	0 44	T 17
W18	13 1	13 38	3 5	0 44	2 23	21 5	0 27	15 30	1 9	21 38	0 7	21 42	0 3	6 35	0 44	W18
T 19	12 41	17 10	2 6	0 15	2 34	20 56	0 24	15 18	1 9	21 36	0 7	21 43	0 3	6 33	0 44	T 19
F 20	12 21	19 45	1 1	0s11	2 44	20 47	0 21	15 6	1 9	21 34	0 7	21 43	0 3	6 32	0 44	F 20
S 21	12 2	21 18	0s 4	0 36	2 54	20 37	0 18	14 53	1 9	21 32	0 7	21 44	0 3	6 31	0 44	S 21
S 22	11 41	21 49	1 8	1 0	3 5	20 26	0 15	14 41	1 9	21 30	0 7	21 45	0 3	6 29	0 44	S 22
M23	11 21	21 18	2 8	1 21	3 15	20 15	0 12	14 28	1 9	21 28	0 7	21 45	0 3	6 28	0 44	M23
T 24	11 1	19 51	3 1	1 41	3 24	20 3	0 9	14 15	1 9	21 26	0 7	21 46	0 3	6 26	0 44	T 24
W25	10 40	17 33	3 47	1 58	3 33	19 51	0 5	14 2	1 9	21 24	0 7	21 46	0 3	6 25	0 44	W25
T 26	10 19	14 31	4 22	2 14	3 42	19 38	0 2	13 49	1 9	21 22	0 7	21 47	0 4	6 23	0 44	T 26
F 27	9 58	10 54	4 47	2 26	3 51	19 24	0n 1	13 36	1 9	21 20	0 8	21 47	0 4	6 22	0 44	F 27
S 28	9 37	6 50	4 59	2 36	3 58	19 10	0 4	13 23	1 9	21 18	0 8	21 48	0 4	6 21	0 44	S 28
S 29	9 16	2 28	4 57	2 43	4 5	18 56	0 7	13 10	1 9	21 16	0 8	21 48	0 4	6 19	0 44	S 29
M30	8 54	2s 2	4 42	2 47	4 11	18 40	0 10	12 57	1 9	21 14	0 8	21 49	0 4	6 18	0 44	M30
T 31	8n33	6s31	4s14	2s48	4s16	18n25	0n12	12n43	1n 9	21n12	0n 8	21s49	0s 4	6n16	0n44	T 31

Julian Day Number = 2469654.5, Delta T = 74.46 sec
 Ecliptic obliquity = 23°25'54, Nutation = 0°00'17, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 25°25'59, Lahiri = 24°32'59

ASTRODIENST EPHEMERIS for the year 2049
geocentric

SEPTEMBER 2049

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	22 42 24	9 ^h 17'17"	19 ^h 12'12"	26°R54	9 ^h 12'24"	0 ^h 9'09"	25 ^h 28'28"	21°R13	15 ^h 52'52"	26°R 8	8°R15	4°R 2	4 ^h 27'27"	4 ^h 10'10"	22 ^h 44'44"	W 1
T 2	22 46 21	9°59'21"	1 ^h 15'56"	26 ^h 32'32"	10°36'	0°47'	25°39'	21 ^h 31'11"	15°56'	26 ^h 8'8"	8 ^h 14'	3 ^h 56'	4°23'	4°17'	22°48'	T 2
F 3	22 50 17	10°57'27"	14°53'	26° 3'	11°49'	1°25'	25°51'	21° 9'	16° 0'	26° 8'	8°13'	3°53'	4°20'	4°24'	22°52'	F 3
S 4	22 54 14	11°55'34"	28° 5'	25°29'	13° 1'	2° 3'	26° 2'	21° 7'	16° 4'	26° 7'	8°12'	3°52'	4°17'	4°30'	22°56'	S 4
S 5	22 58 10	12°53'43"	11 ^h 17'35"	24°48'	14°14'	2°42'	26°13'	21° 5'	16° 7'	26° 7'	8°10'	3°52'	4°14'	4°37'	23° 1'	S 5
M 6	23 2 7	13°51'53"	25°25'	24° 3'	15°27'	3°20'	26°24'	21° 3'	16°11'	26° 7'	8° 9'	3°52'	4°11'	4°44'	23° 5'	M 6
T 7	23 6 4	14°50'04"	9 ^h 36'36"	23°12'	16°39'	3°58'	26°35'	21° 1'	16°15'	26° 7'	8° 8'	3°50'	4° 7'	4°50'	23°10'	T 7
W 8	23 10 0	15°48'17"	24° 6'	22°18'	17°52'	4°36'	26°46'	21° 0'	16°19'	26° 6'	8° 7'	3°46'	4° 4'	4°57'	23°14'	W 8
T 9	23 13 57	16°46'32"	8 ^h 55'51"	21°20'	19° 5'	5°14'	26°57'	20°58'	16°22'	26° 6'	8° 5'	3°39'	4° 1'	5° 4'	23°19'	T 9
F 10	23 17 53	17°44'47"	23°51'	20°20'	20°18'	5°52'	27° 8'	20°57'	16°26'	26° 6'	8° 4'	3°30'	3°58'	5°11'	23°24'	F 10
S 11	23 21 50	18°43'05"	8 ^h 49'49"	19°20'	21°31'	6°30'	27°19'	20°55'	16°30'	26° 5'	8° 3'	3°20'	3°55'	5°17'	23°29'	S 11
S 12	23 25 46	19°41'24"	23°40'	18°20'	22°44'	7° 8'	27°29'	20°54'	16°34'	26° 5'	8° 2'	3° 9'	3°52'	5°24'	23°34'	S 12
M13	23 29 43	20°39'45"	8 ^h 15'15"	17°22'	23°57'	7°47'	27°40'	20°53'	16°37'	26° 4'	8° 0'	2°59'	3°48'	5°31'	23°39'	M13
T 14	23 33 39	21°38'08"	22°26'	16°27'	25°10'	8°25'	27°50'	20°52'	16°41'	26° 4'	7°59'	2°51'	3°45'	5°37'	23°44'	T 14
W15	23 37 36	22°36'33"	6 ^h 10'10"	15°38'	26°23'	9° 3'	28° 0'	20°51'	16°45'	26° 3'	7°58'	2°46'	3°42'	5°44'	23°49'	W15
T 16	23 41 32	23°35'00"	19°26'	14°54'	27°37'	9°41'	28°11'	20°50'	16°49'	26° 3'	7°57'	2°44'	3°39'	5°51'	23°54'	T 16
F 17	23 45 29	24°33'29"	2 ^h 11'17"	14°17'	28°50'	10°19'	28°21'	20°49'	16°53'	26° 2'	7°55'	2°D43'	3°36'	5°57'	23°59'	F 17
S 18	23 49 26	25°32'01"	14°45'	13°48'	0 ^h 3'3'	10°57'	28°31'	20°48'	16°56'	26° 2'	7°54'	2°43'	3°32'	6° 4'	24° 5'	S 18
S 19	23 53 22	26°30'34"	26°57'	13°29'	1°17'	11°35'	28°41'	20°48'	17° 0'	26° 1'	7°53'	2°R44'	3°29'	6°11'	24°10'	S 19
M20	23 57 19	27°29'10"	8 ^h 56'16"	13°18'	2°30'	12°13'	28°50'	20°47'	17° 4'	26° 0'	7°52'	2°43'	3°26'	6°18'	24°16'	M20
T 21	0 1 15	28°27'48"	20°48'	13°D17'	3°44'	12°52'	29° 0'	20°47'	17° 8'	26° 0'	7°51'	2°40'	3°23'	6°24'	24°21'	T 21
W22	0 5 12	29°26'28"	2 ^h 13'38"	13°26'	4°57'	13°30'	29°10'	20°47'	17°11'	25°59'	7°49'	2°35'	3°20'	6°31'	24°27'	W22
T 23	0 9 8	0 ^h 25'10"	14°30'	13°45'	6°11'	14° 8'	29°19'	20°46'	17°15'	25°58'	7°48'	2°28'	3°17'	6°38'	24°33'	T 23
F 24	0 13 5	1°23'55"	26°28'	14°13'	7°25'	14°46'	29°29'	20°46'	17°19'	25°57'	7°47'	2°19'	3°13'	6°44'	24°38'	F 24
S 25	0 17 1	2°22'41"	8 ^h 35'35"	14°50'	8°38'	15°24'	29°38'	20°D46'	17°22'	25°56'	7°46'	2° 8'	3°10'	6°51'	24°44'	S 25
S 26	0 20 58	3°21'29"	20°52'	15°36'	9°52'	16° 2'	29°47'	20°46'	17°26'	25°56'	7°45'	1°56'	3° 7'	6°58'	24°50'	S 26
M27	0 24 55	4°20'20"	3 ^h 20'20"	16°30'	11° 6'	16°40'	29°56'	20°46'	17°30'	25°55'	7°44'	1°46'	3° 4'	7° 5'	24°56'	M27
T 28	0 28 51	5°19'12"	15°59'	17°32'	12°20'	17°18'	0 ^h 1'5'	20°47'	17°33'	25°54'	7°43'	1°37'	3° 1'	7°11'	25° 2'	T 28
W29	0 32 48	6°18'07"	28°50'	18°40'	13°34'	17°56'	0°14'	20°47'	17°37'	25°53'	7°42'	1°30'	2°58'	7°18'	25° 8'	W29
T 30	0 36 44	7 ^h 17'03"	11 ^h 15'52"	19 ^h 55'55"	14 ^h 48'48"	18 ^h 35'35"	0 ^h 12'22"	20 ^h 34'48"	17 ^h 41'41"	25 ^h 52'52"	7 ^h 44'40"	1 ^h 26'26"	2 ^h 54'54"	7 ^h 12'25"	25 ^h 14'14"	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	decl	lat
W 1	8n11	10s47	3s32	2s45	4s21	18n 9	0n15	12n30	1n 9	21n10	0n 8	21s49	0s 4	6n15	0n44	17n35	1s44	20s34	13s 5	20s57	21s 1	14n53	15s17	3n16			
T 2	7 49	14 39	2 40	2 39	4 23	17 52	0 18	12 16	1 9	21 8	0 8	21 50	0 4	6 13	0 44	17 35	1 45	20 34	13 5	20 56	21 1	14 51	15 19	3 16			
F 3	7 27	17 52	1 39	2 29	4 25	17 35	0 21	12 3	1 9	21 6	0 8	21 50	0 4	6 12	0 44	17 35	1 45	20 35	13 5	20 55	21 0	14 49	15 20	3 16			
S 4	7 5	20 13	0 31	2 16	4 25	17 17	0 24	11 49	1 9	21 4	0 8	21 51	0 4	6 10	0 44	17 35	1 45	20 35	13 5	20 55	21 0	14 47	15 21	3 16			
S 5	6 43	21 30	0n41	1 58	4 23	16 59	0 27	11 35	1 9	21 2	0 9	21 51	0 4	6 9	0 44	17 35	1 45	20 36	13 5	20 55	20 59	14 45	15 22	3 15			
M 6	6 21	21 30	1 51	1 37	4 20	16 40	0 29	11 22	1 9	21 0	0 9	21 51	0 4	6 7	0 44	17 35	1 45	20 36	13 5	20 55	20 58	14 43	15 23	3 15			
T 7	5 58	20 9	2 57	1 12	4 15	16 21	0 32	11 8	1 9	20 58	0 9	21 52	0 4	6 6	0 44	17 35	1 45	20 37	13 5	20 55	20 58	14 41	15 24	3 15			
W 8	5 36	17 28	3 53	0 44	4 7	16 1	0 35	10 54	1 9	20 57	0 9	21 52	0 5	6 4	0 44	17 34	1 45	20 37	13 5	20 54	20 57	14 39	15 26	3 15			
T 9	5 13	13 37	4 34	0 13	3 58	15 41	0 37	10 40	1 9	20 55	0 9	21 52	0 5	6 3	0 44	17 34	1 45	20 38	13 5	20 53	20 57	14 37	15 27	3 15			
F 10	4 50	8 53	4 57	0n21	3 47	15 21	0 40	10 26	1 9	20 53	0 9	21 53	0 5	6 2	0 44	17 34	1 45	20 38	13 5	20 51	20 56	14 35	15 28	3 15			
S 11	4 28	3 37	5 0	0 56	3 34	15 0	0 42	10 12	1 9	20 51	0 9	21 53	0 5	6 0	0 44	17 34	1 45	20 38	13 5	20 49	20 55	14 33	15 29	3 15			
S 12	4 5	1n49	4 42	1 33	3 20	14 38	0 45	9 57	1 9	20 49	0 9	21 53	0 5	5 59	0 44	17 34	1 45	20 39	13 5	20 47	20 55	14 31	15 31	3 15			
M13	3 42	7 3	4 7	2 10	3 4	14 16	0 47	9 43	1 9	20 47	0 10	21 54	0 5	5 57	0 44	17 34	1 45	20 39	13 5	20 45	20 54	14 29	15 32	3 15			
T 14	3 19	11 46	3 17	2 47	2 46	13 54	0 49	9 29	1 9	20 45	0 10	21 54	0 5	5 56	0 44	17 34	1 45	20 40	13 5	20 43	20 54	14 27	15 33	3 15			
W15	2 56	15 43	2 16	3 24	2 28	13 31	0 52	9 15	1 9	20 43	0 10	21 54	0 5	5 54	0 44	17 33	1 45	20 40	13 5	20 42	20 53	14 25	15 34	3 15			
T 16	2 33	18 42	1 10	3 58	2 9	13 8	0 54	9 0	1 9	20 41	0 10	21 54	0 5	5 53	0 44	17 33	1 45	20 41	13 5	20 42	20 53	14 23	15 36	3 15			
F 17	2 10	20 39	0 2	4 30	1 49	12 45	0 56	8 46	1 9	20 39	0 10	21 54	0 5	5 51	0 44	17 33	1 45	20 41	13 5	20 42	20 52	14 21	15 37	3 15			
S 18	1 46	21 30	1s 4	5 0	1 29	12 21	0 58	8 31	1 9	20 37	0 10	21 55	0 5	5 50	0 44	17 33	1 45	20 42	13 5	20 42	20 51	14 19	15 38	3 15			
S 19	1 23	21 19	2 5	5 26	1 9	11 57	1 0	8 17	1 9	20 35	0 10	21 55	0 5	5 48	0 44	17 33	1 45	20 42	13 5	20 42	20 51	14 17	15 40	3 15			
M20	1 0	20 8	3 0	5 48	0 50	11 33	1 2	8 2	1 9	20 33	0 10	21 55	0 5	5 47	0 44	17 32	1 45	20 42	13 5	20 42	20 50	14 15	15 41	3 15			
T 21	0 37	18 5	3 47	6 5	0 31	11 8	1 4	7 47	1 9	20 31	0 11	21 55	0 6	5 46	0 44	17 32	1 46	20 43	13 5	20 41	20 49	14 13	15 42	3 15			
W22	0 13	15 17	4 24	6 18	0 13	10 43	1 6	7 33	1 9	20 30	0 11	21 55	0 6	5 44	0 44	17 32	1 46	20 43	13 4	20 40	20 49	14 11	15 44	3 15			
T 23	0s10	11 52	4 49	6 27	0n 4	10 17	1 8	7 18	1 9	20 28	0 11	21 55	0 6	5 43	0 44	17 32	1 46	20 43	13 4	20 39	20 48	14 9	15 45	3 14			
F 24	0 33	7 57	5 2	6 31	0 20	9 52	1 9	7 3	1 9	20 26	0 11	21 55	0 6	5 41	0 44	17 32	1 46	20 44	13 4	20 37	20 48	14 7	15 47	3 14			
S 25	0 57	3 41	5 2	6 30	0 35	9 26	1 11	6 48	1 9	20 24	0 11	21 55	0 6	5 40	0 44	17 31	1 46	20 44	13 4	20 35	20 47	14 5	15 48	3 14			
S 26	1 20	0s47	4 48	6 25	0 48	8 59	1 13	6 34	1 9	20 22	0 11	21 55	0 6	5 38	0 44	17 31	1 46	20 44	13 4	20 33	20 46	14 3	15 49	3 14			
M27	1 43	5 18	4 20	6 15	1 1	8 33	1 14	6 19	1 8	20 21	0 11	21 56	0 6	5 37	0 44	17 31	1 46	20 45	13 4	20 30	20 46	14 1	15 51	3 14			
T 28	2 7	9 39	3 38	6 1	1 12	8 6	1 16	6 4	1 8	20 19	0 11	21 56	0 6	5 35	0 44	17 31	1 46	20 45	13 4	20 29	20 45	13 59	15 52	3 14			
W29	2 30	13 38	2 45	5 44	1 21	7 39	1 17	5 49	1 8	20 17	0 12	21 56	0 6	5 34	0 44	17 30	1 46	20 45	13 4	20 27	20 45	13 57	15 54	3 14			
T 30	2s53	17s 1	1s43	5n22	1n30	7n12	1n19	5n34	1n 8	20n15	0n12	21s56	0s 6	5n33	0n44	17n30	1s46	20s46	13s 4	20s26	20s44	13n55	15s55	3n14			

ASTRODIENST EPHEMERIS for the year 2049

geocentric

OCTOBER 2049

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	0 40 41	8♂16'02	25♂ 6	21♂15	16♂ 2	19♂13	0♂31	20♂48	17♂44	25°R51	7°R39	1°D24	2♂51	7♂31	25♂20	F 1
S 2	0 44 37	9°15'02	8♂31	22°40	17°16	19°51	0°39	20°49	17°48	25♂50	7♂38	1♂24	2°48	7°38	25°27	S 2
S 3	0 48 34	10°14'04	22° 9	24° 9	18°30	20°29	0°48	20°50	17°51	25°49	7°37	1°25	2°45	7°45	25°33	S 3
M 4	0 52 30	11°13'08	5♂39	25°42	19°44	21° 7	0°56	20°51	17°55	25°48	7°36	1°R26	2°42	7°52	25°39	M 4
T 5	0 56 27	12°12'13	20° 3	27°18	20°58	21°45	1° 4	20°52	17°58	25°47	7°35	1°26	2°38	7°58	25°46	T 5
W 6	1 0 24	13°11'20	4♂19	28°56	22°13	22°23	1°12	20°53	18° 2	25°45	7°34	1°24	2°35	8° 5	25°52	W 6
T 7	1 4 20	14°10'29	18°45	0♂36	23°27	23° 1	1°20	20°54	18° 5	25°44	7°33	1°20	2°32	8°12	25°59	T 7
F 8	1 8 17	15° 9'39	3♂17	2°18	24°41	23°39	1°27	20°55	18° 9	25°43	7°32	1°14	2°29	8°18	26° 5	F 8
S 9	1 12 13	16° 8'52	17°50	4° 0	25°56	24°17	1°35	20°57	18°12	25°42	7°31	1° 7	2°26	8°25	26°12	S 9
S 10	1 16 10	17° 8'06	2♂18	5°44	27°10	24°56	1°42	20°58	18°16	25°41	7°30	1° 0	2°23	8°32	26°19	S 10
M 11	1 20 6	18° 7'22	16°33	7°29	28°24	25°34	1°49	21° 0	18°19	25°39	7°30	0°54	2°19	8°38	26°26	M 11
T 12	1 24 3	19° 6'40	0♂30	9°13	29°39	26°12	1°56	21° 1	18°23	25°38	7°29	0°48	2°16	8°45	26°32	T 12
W 13	1 27 59	20° 6'00	24° 6	10°58	0♂53	26°50	2° 3	21° 3	18°26	25°37	7°28	0°45	2°13	8°52	26°39	W 13
T 14	1 31 56	21° 5'23	17° 9	12°43	2° 8	27°28	2°10	21° 5	18°29	25°36	7°27	0°D44	2°10	8°59	26°46	T 14
F 15	1 35 53	22° 4'48	10♂ 9	14°28	3°23	28° 6	2°17	21° 7	18°33	25°34	7°26	0°44	2° 7	9° 5	26°53	F 15
S 16	1 39 49	23° 4'15	22°39	16°12	4°37	28°44	2°23	21° 9	18°36	25°33	7°25	0°46	2° 3	9°12	27° 0	S 16
S 17	1 43 46	24° 3'44	4♂53	17°57	5°52	29°22	2°30	21°11	18°39	25°31	7°24	0°47	2° 0	9°19	27° 7	S 17
M 18	1 47 42	25° 3'15	16°54	19°40	7° 6	0♂ 0	2°36	21°13	18°42	25°30	7°24	0°49	1°57	9°25	27°14	M 18
T 19	1 51 39	26° 2'49	28°48	21°24	8°21	0°38	2°42	21°16	18°46	25°29	7°23	0°R49	1°54	9°32	27°21	T 19
W 20	1 55 35	27° 2'25	10♂40	23° 7	9°36	1°17	2°48	21°18	18°49	25°27	7°22	0°48	1°51	9°39	27°28	W 20
T 21	1 59 32	28° 2'03	22°34	24°49	10°51	1°55	2°53	21°21	18°52	25°26	7°21	0°45	1°48	9°46	27°35	T 21
F 22	2 3 28	29° 1'44	4♂35	26°31	12° 6	2°33	2°59	21°23	18°55	25°24	7°21	0°41	1°44	9°52	27°42	F 22
S 23	2 7 25	0♂1 1'26	16°46	28°12	13°20	3°11	3° 4	21°26	18°58	25°23	7°20	0°37	1°41	9°59	27°50	S 23
S 24	2 11 22	1° 1'11	29°11	29°53	14°35	3°49	3° 9	21°29	19° 1	25°21	7°19	0°31	1°38	10° 6	27°57	S 24
M 25	2 15 18	2° 0'58	11♂51	1♂33	15°50	4°27	3°14	21°32	19° 4	25°20	7°19	0°26	1°35	10°12	28° 4	M 25
T 26	2 19 15	3° 0'47	24°47	3°13	17° 5	5° 5	3°19	21°35	19° 7	25°18	7°18	0°22	1°32	10°19	28°12	T 26
W 27	2 23 11	4° 0'38	7♂58	4°52	18°20	5°44	3°24	21°38	19°10	25°17	7°18	0°19	1°29	10°26	28°19	W 27
T 28	2 27 8	5° 0'31	21°24	6°31	19°35	6°22	3°29	21°41	19°13	25°15	7°17	0°18	1°25	10°33	28°26	T 28
F 29	2 31 4	6° 0'26	5♂ 3	8° 9	20°50	7° 0	3°33	21°44	19°16	25°14	7°16	0°D17	1°22	10°39	28°34	F 29
S 30	2 35 1	7° 0'23	18°52	9°46	22° 5	7°38	3°37	21°47	19°19	25°12	7°16	0°18	1°19	10°46	28°41	S 30
S 31	2 38 57	8♂ 0'21	2♂50	11♂23	23♂20	8♂16	3♂41	21♂51	19♂22	25♂10	7♂15	0♂20	1♂16	10♂53	28♂49	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	3s17	19s35	0s34	4n57	1n37	6n44	1n20	5n19	1n 8	20n14	0n12	21s56	0s 6	5n31	0n44	17n30	1s46	20s46	13s 4	20s26	20s43	13n53	15s57	3n14			
S 2	3 40	21 5	0n38	4 29	1 43	6 16	1 21	5 4	1 8	20 12	0 12	21 55	0 6	5 30	0 44	17 29	1 46	20 46	13 3	20 26	20 43	13 51	15 58	3 14			
S 3	4 3	21 23	1 49	3 58	1 47	5 49	1 22	4 49	1 8	20 10	0 12	21 55	0 6	5 29	0 44	17 29	1 46	20 47	13 3	20 26	20 42	13 49	16 0	3 14			
M 4	4 26	20 23	2 55	3 24	1 51	5 20	1 23	4 34	1 8	20 9	0 12	21 55	0 6	5 27	0 44	17 29	1 46	20 47	13 3	20 26	20 42	13 47	16 1	3 14			
T 5	4 49	18 7	3 52	2 49	1 53	4 52	1 24	4 19	1 8	20 7	0 12	21 55	0 7	5 26	0 44	17 29	1 46	20 47	13 3	20 26	20 41	13 45	16 3	3 14			
W 6	5 12	14 44	4 35	2 11	1 55	4 24	1 25	4 3	1 8	20 5	0 13	21 55	0 7	5 24	0 44	17 28	1 46	20 47	13 3	20 26	20 40	13 43	16 4	3 14			
T 7	5 35	10 26	5 1	1 32	1 56	3 55	1 26	3 48	1 8	20 4	0 13	21 55	0 7	5 23	0 44	17 28	1 46	20 48	13 3	20 25	20 40	13 41	16 6	3 14			
F 8	5 58	5 30	5 8	0 51	1 56	3 26	1 27	3 33	1 8	20 2	0 13	21 55	0 7	5 22	0 44	17 28	1 46	20 48	13 2	20 24	20 39	13 39	16 7	3 14			
S 9	6 21	0 16	4 55	0 10	1 55	2 58	1 28	3 18	1 7	20 1	0 13	21 55	0 7	5 20	0 44	17 27	1 46	20 48	13 2	20 23	20 38	13 37	16 9	3 14			
S 10	6 44	4n57	4 24	0s33	1 53	2 29	1 28	3 3	1 7	19 59	0 13	21 55	0 7	5 19	0 44	17 27	1 46	20 48	13 2	20 21	20 38	13 35	16 10	3 14			
M 11	7 6	9 50	3 36	1 16	1 51	2 0	1 29	2 48	1 7	19 58	0 13	21 54	0 7	5 18	0 44	17 27	1 46	20 48	13 2	20 20	20 37	13 32	16 12	3 14			
T 12	7 29	14 5	2 36	2 0	1 48	1 31	1 30	2 32	1 7	19 56	0 13	21 54	0 7	5 16	0 44	17 26	1 46	20 49	13 2	20 19	20 37	13 30	16 13	3 15			
W 13	7 51	17 29	1 29	2 44	1 45	1 1	1 30	2 17	1 7	19 55	0 14	21 54	0 7	5 15	0 44	17 26	1 46	20 49	13 2	20 18	20 36	13 28	16 15	3 15			
T 14	8 14	19 51	0 19	3 28	1 41	0 32	1 30	2 2	1 7	19 54	0 14	21 54	0 7	5 14	0 44	17 26	1 46	20 49	13 1	20 18	20 35	13 26	16 16	3 15			
F 15	8 36	21 7	0s51	4 12	1 37	0 3	1 31	1 47	1 7	19 52	0 14	21 54	0 7	5 13	0 44	17 25	1 47	20 49	13 1	20 18	20 35	13 24	16 18	3 15			
S 16	8 58	21 17	1 57	4 57	1 33	0s27	1 31	1 31	1 7	19 51	0 14	21 53	0 7	5 11	0 44	17 25	1 47	20 49	13 1	20 18	20 34	13 22	16 19	3 15			
S 17	9 20	20 25	2 55	5 41	1 28	0 56	1 31	1 16	1 7	19 50	0 14	21 53	0 7	5 10	0 44	17 25	1 47	20 49	13 1	20 19	20 33	13 20	16 21	3 15			
M 18	9 42	18 38	3 45	6 25	1 22	1 25	1 31	1 1	1 6	19 48	0 14	21 53	0 7	5 9	0 44	17 24	1 47	20 49	13 1	20 19	20 33	13 18	16 22	3 15			
T 19	10 3	16 4	4 25	7 9	1 17	1 55	1 31	0 46	1 6	19 47	0 14	21 53	0 7	5 8	0 44	17 24	1 47	20 50	13 0	20 19	20 32	13 16	16 24	3 15			
W 20	10 25	12 51	4 53	7 53	1 11	2 24	1 31	0 30	1 6	19 46	0 15	21 52	0 8	5 6	0 44	17 24	1 47	20 50	13 0	20 19	20 31	13 14	16 25	3 15			
T 21	10 46	9 7	5 9	8 36	1 5	2 54	1 31	0 15	1 6	19 45	0 15	21 52	0 8	5 5	0 44	17 23	1 47	20 50	13 0	20 18	20 31	13 12	16 27	3 15			
F 22	11 8	5 0	5 11	9 18	0 59	3 23	1 31	0s 0	1 6	19 44	0 15	21 52	0 8	5 4	0 44	17 23	1 47	20 50	13 0	20 17	20 30	13 10	16 28	3 15			
S 23	11 29	0 37	5 0	10 0	0 53	3 52	1 31	0 16	1 6	19 43	0 15	21 51	0 8	5 3	0 45	17 22	1 47	20 50	13 0	20 16	20 30	13 8	16 30	3 15			
S 24	11 50	3s52	4 34	10 42	0 47	4 21	1 30	0 31	1 6	19 42	0 15	21 51	0 8	5 2	0 45	17 22	1 47	20 50	12 59	20 15	20 29	13 6	16 31	3 15			
M 25	12 10	8 17	3 55	11 23	0 40	4 51	1 30	0 46	1 5	19 41	0 15	21 50	0 8	5 0	0 45	17 22	1 47	20 50	12 59	20 14	20 28	13 4	16 33	3 15			
T 26	12 31	12 25	3 3	12 3	0 34	5 20	1 30	1 1	1 5	19 40	0 16	21 50	0 8	4 59	0 45	17 21	1 47	20 50	12 59	20 13	20 28	13 1	16 35	3 15			
W 27	12 51	16 3	2 0	12 43	0 27	5 49	1 29	1 17	1 5	19 39	0 16	21 50	0 8	4 58	0 45	17 21	1 47	20 50	12 59	20 13	20 27	12 59	16 36	3 15			
T 28	13 11	18 53	0 49	13 22	0 20	6 18	1 28	1 32	1 5	19 38	0 16	21 49	0 8	4 57	0 45	17 20	1 47	20 50	12 58	20 12	20 26	12 57	16 38	3 16			
F 29	13 31	20 42	0n26	14 0	0 14	6 46	1 28	1 47	1 5	19 37	0 16	21 49	0 8	4 56	0 45	17 20	1 47	20 50	12 58	20 12	20 26	12 55	16 39	3 16			
S 30	13 51	21 18	1 41	14 38	0 7	7 15	1 27	2 2	1 5	19 36	0 16	21 48	0 8	4 55	0 45	17 20	1 47	20 50	12 58	20 12	20 25	12 53	16 41	3 16			
S 31	14s10	20s34	2n50	15s14	0n 0	7s43	1n26	2s17	1n 4	19n35	0n16	21s48	0s 8	4n54	0n45	17n19	1s47	20s50	12s58	20s13	20s24	12n51	16s42	3n16			

ASTRODIENST EPHEMERIS for the year 2049
geocentric

NOVEMBER 2049

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	2 42 54	9♉ 0'22	16♊54	13♉ 0	24♈35	8♈54	3♉45	21♊54	19♉25	25°R 9	7°R15	0♈21	1♈13	10♉59	28♉56	M 1
T 2	2 46 51	10° 0'23	1♈ 2	14°36	25°50	9°32	3°49	21°58	19°27	25♈ 7	7♈14	0°22	1° 9	11° 6	29° 4	T 2
W 3	2 50 47	11° 0'26	15°14	16°11	27° 5	10°11	3°52	22° 2	19°30	25° 6	7°14	0°R22	1° 6	11°13	29°11	W 3
T 4	2 54 44	12° 0'31	29°26	17°47	28°20	10°49	3°55	22° 5	19°33	25° 4	7°14	0°22	1° 3	11°20	29°19	T 4
F 5	2 58 40	13° 0'37	13♈36	19°21	29°36	11°27	3°58	22° 9	19°35	25° 2	7°13	0°20	1° 0	11°26	29°26	F 5
S 6	3 2 37	14° 0'45	27°41	20°56	0♉51	12° 5	4° 1	22°13	19°38	25° 1	7°13	0°18	0°57	11°33	29°34	S 6
S 7	3 6 33	15° 0'54	11♈39	22°30	2° 6	12°43	4° 4	22°17	19°40	24°59	7°12	0°16	0°54	11°40	29°41	S 7
M 8	3 10 30	16° 1'05	25°26	24° 3	3°21	13°21	4° 7	22°21	19°43	24°57	7°12	0°14	0°50	11°46	29°49	M 8
T 9	3 14 26	17° 1'17	8♈59	25°36	4°36	13°59	4° 9	22°26	19°45	24°56	7°12	0°12	0°47	11°53	29°57	T 9
W10	3 18 23	18° 1'32	22°17	27° 9	5°51	14°38	4°11	22°30	19°48	24°54	7°12	0°12	0°44	12° 0	0♈ 4	W10
T 11	3 22 19	19° 1'48	5♈17	28°42	7° 7	15°16	4°13	22°34	19°50	24°52	7°11	0°D12	0°41	12° 7	0°12	T 11
F 12	3 26 16	20° 2'06	18° 0	0♈14	8°22	15°54	4°15	22°38	19°52	24°51	7°11	0°12	0°38	12°13	0°20	F 12
S 13	3 30 13	21° 2'26	0♈27	1°46	9°37	16°32	4°16	22°43	19°55	24°49	7°11	0°13	0°35	12°20	0°28	S 13
S 14	3 34 9	22° 2'47	12°40	3°17	10°53	17°10	4°18	22°48	19°57	24°47	7°11	0°14	0°31	12°27	0°35	S 14
M15	3 38 6	23° 3'11	24°42	4°48	12° 8	17°48	4°19	22°52	19°59	24°46	7°11	0°15	0°28	12°33	0°43	M15
T 16	3 42 2	24° 3'36	6♈37	6°19	13°23	18°27	4°20	22°57	20° 1	24°44	7°10	0°15	0°25	12°40	0°51	T 16
W17	3 45 59	25° 4'03	18°29	7°50	14°38	19° 5	4°21	23° 2	20° 3	24°42	7°10	0°16	0°22	12°47	0°58	W17
T 18	3 49 55	26° 4'32	0♈23	9°20	15°54	19°43	4°21	23° 6	20° 6	24°40	7°10	0°R16	0°19	12°54	1° 6	T 18
F 19	3 53 52	27° 5'03	12°23	10°50	17° 9	20°21	4°22	23°11	20° 8	24°39	7°10	0°15	0°15	13° 0	1°14	F 19
S 20	3 57 48	28° 5'35	24°35	12°20	18°25	20°59	4°22	23°16	20°10	24°37	7°D10	0°15	0°12	13° 7	1°22	S 20
S 21	4 1 45	29° 6'10	7♈ 2	13°49	19°40	21°37	4°R22	23°21	20°11	24°35	7°10	0°15	0° 9	13°14	1°29	S 21
M22	4 5 42	0♈ 6'46	19°47	15°18	20°55	22°16	4°22	23°27	20°13	24°34	7°10	0°D15	0° 6	13°20	1°37	M22
T 23	4 9 38	1° 7'23	2♉53	16°46	22°11	22°54	4°21	23°32	20°15	24°32	7°10	0°15	0° 3	13°27	1°45	T 23
W24	4 13 35	2° 8'03	16°20	18°14	23°26	23°32	4°21	23°37	20°17	24°30	7°10	0°15	29♉59	13°34	1°53	W24
T 25	4 17 31	3° 8'44	0♈ 7	19°42	24°42	24°10	4°20	23°42	20°19	24°29	7°10	0°R15	29°56	13°41	2° 0	T 25
F 26	4 21 28	4° 9'26	14°12	21° 9	25°57	24°48	4°19	23°48	20°20	24°27	7°11	0°15	29°53	13°47	2° 8	F 26
S 27	4 25 24	5°10'09	28°31	22°35	27°12	25°27	4°18	23°53	20°22	24°25	7°11	0°15	29°50	13°54	2°16	S 27
S 28	4 29 21	6°10'54	12♊57	24° 1	28°28	26° 5	4°16	23°59	20°23	24°24	7°11	0°14	29°47	14° 1	2°24	S 28
M29	4 33 18	7°11'40	27°27	25°26	29°43	26°43	4°15	24° 4	20°25	24°22	7°11	0°13	29°44	14° 8	2°31	M29
T 30	4 37 14	8♈12'27	11♈54	26♈49	0♈59	27♈21	4♉13	24♊10	20♉26	24♈20	7♈11	0♈13	29♉41	14♉14	2♈39	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	decl	lat
M 1	14s30	18s34	3n49	15s50	0s 7	8s12	1n26	2s33	1n 4	19n35	0n17	21s47	0s 8	4n53	0n45	17n19	1s47	20s50	12s58	20s13	20s24	12n49	16s44	3n16			
T 2	14 49	15 26	4 35	16 25	0 13	8 40	1 25	2 48	1 4	19 34	0 17	21 47	0 8	4 52	0 45	17 19	1 47	20 50	12 57	20 13	20 23	12 47	16 45	3 16			
W 3	15 7	11 24	5 5	17 0	0 20	9 8	1 24	3 3	1 4	19 33	0 17	21 46	0 8	4 51	0 45	17 18	1 47	20 50	12 57	20 13	20 22	12 45	16 47	3 16			
T 4	15 26	6 44	5 15	17 33	0 27	9 36	1 23	3 18	1 4	19 33	0 17	21 46	0 9	4 50	0 45	17 18	1 47	20 50	12 57	20 13	20 22	12 43	16 48	3 16			
F 5	15 44	1 43	5 7	18 6	0 33	10 3	1 22	3 33	1 4	19 32	0 17	21 45	0 9	4 49	0 45	17 17	1 47	20 50	12 57	20 13	20 21	12 41	16 49	3 16			
S 6	16 2	3n22	4 40	18 37	0 40	10 30	1 20	3 48	1 3	19 32	0 17	21 45	0 9	4 48	0 45	17 17	1 47	20 50	12 56	20 12	20 20	12 39	16 51	3 17			
S 7	16 20	8 15	3 57	19 8	0 46	10 58	1 19	4 3	1 3	19 31	0 18	21 44	0 9	4 47	0 45	17 17	1 47	20 49	12 56	20 12	20 20	12 36	16 52	3 17			
M 8	16 38	12 38	3 1	19 38	0 53	11 24	1 18	4 18	1 3	19 31	0 18	21 43	0 9	4 46	0 45	17 16	1 47	20 49	12 56	20 12	20 19	12 34	16 54	3 17			
T 9	16 55	16 18	1 55	20 7	0 59	11 51	1 17	4 33	1 3	19 30	0 18	21 43	0 9	4 45	0 45	17 16	1 47	20 49	12 55	20 11	20 19	12 32	16 55	3 17			
W10	17 12	19 2	0 44	20 34	1 5	12 17	1 15	4 48	1 3	19 30	0 18	21 42	0 9	4 44	0 45	17 15	1 47	20 49	12 55	20 11	20 18	12 30	16 57	3 17			
T 11	17 28	20 43	0s28	21 1	1 11	12 43	1 14	5 3	1 2	19 30	0 18	21 41	0 9	4 43	0 45	17 15	1 47	20 49	12 55	20 11	20 17	12 28	16 58	3 17			
F 12	17 45	21 17	1 37	21 27	1 17	13 9	1 12	5 18	1 2	19 29	0 18	21 41	0 9	4 42	0 45	17 14	1 47	20 49	12 55	20 11	20 17	12 26	17 0	3 17			
S 13	18 1	20 46	2 40	21 52	1 23	13 34	1 11	5 33	1 2	19 29	0 19	21 40	0 9	4 41	0 45	17 14	1 47	20 49	12 54	20 11	20 16	12 24	17 1	3 18			
S 14	18 16	19 16	3 34	22 15	1 28	13 59	1 9	5 47	1 2	19 29	0 19	21 39	0 9	4 40	0 45	17 14	1 47	20 48	12 54	20 12	20 15	12 22	17 2	3 18			
M15	18 32	16 56	4 18	22 38	1 34	14 24	1 8	6 2	1 2	19 29	0 19	21 39	0 9	4 39	0 45	17 13	1 47	20 48	12 54	20 12	20 15	12 20	17 4	3 18			
T 16	18 47	13 55	4 51	22 59	1 39	14 48	1 6	6 17	1 1	19 29	0 19	21 38	0 9	4 39	0 45	17 13	1 47	20 48	12 54	20 12	20 14	12 18	17 5	3 18			
W17	19 2	10 21	5 11	23 19	1 44	15 12	1 4	6 32	1 1	19 29	0 19	21 37	0 9	4 38	0 45	17 12	1 47	20 48	12 53	20 12	20 13	12 15	17 7	3 18			
T 18	19 16	6 23	5 17	23 38	1 49	15 36	1 2	6 46	1 1	19 29	0 20	21 36	0 9	4 37	0 45	17 12	1 47	20 48	12 53	20 12	20 13	12 13	17 8	3 19			
F 19	19 30	2 8	5 10	23 56	1 54	15 59	1 1	7 1	1 1	19 29	0 20	21 36	0 9	4 36	0 45	17 12	1 47	20 47	12 53	20 12	20 12	12 11	17 9	3 19			
S 20	19 44	2s16	4 49	24 13	1 58	16 22	0 59	7 15	1 0	19 29	0 20	21 35	0 10	4 36	0 45	17 11	1 47	20 47	12 53	20 12	20 11	12 9	17 11	3 19			
S 21	19 57	6 41	4 14	24 28	2 2	16 44	0 57	7 30	1 0	19 29	0 20	21 34	0 10	4 35	0 45	17 11	1 47	20 47	12 52	20 12	20 11	12 7	17 12	3 19			
M22	20 10	10 55	3 26	24 43	2 6	17 6	0 55	7 44	1 0	19 29	0 20	21 33	0 10	4 34	0 46	17 10	1 47	20 47	12 52	20 12	20 10	12 5	17 13	3 19			
T 23	20 23	14 45	2 26	24 56	2 10	17 27	0 53	7 59	1 0	19 30	0 20	21 33	0 10	4 34	0 46	17 10	1 47	20 46	12 52	20 12	20 9	12 3	17 15	3 20			
W24	20 35	17 56	1 17	25 7	2 13	17 48	0 51	8 13	0 59	19 30	0 21	21 32	0 10	4 33	0 46	17 10	1 47	20 46	12 51	20 12	20 9	12 1	17 16	3 20			
T 25	20 47	20 11	0 1	25 17	2 16	18 9	0 49	8 27	0 59	19 30	0 21	21 31	0 10	4 32	0 46	17 9	1 47	20 46	12 51	20 12	20 8	11 59	17 17	3 20			
F 26	20 58	21 14	1n17	25 26	2 19	18 29	0 47	8 41	0 59	19 31	0 21	21 30	0 10	4 32	0 46	17 9	1 47	20 45	12 51	20 12	20 7	11 56	17 19	3 20			
S 27	21 9	20 55	2 30	25 34	2 21	18 48	0 45	8 56	0 59	19 31	0 21	21 29	0 10	4 31	0 46	17 8	1 47	20 45	12 51	20 12	20 7	11 54	17 20	3 20			
S 28	21 20	19 14	3 35	25 40	2 23	19 7	0 43	9 10	0 58	19 32	0 21	21 28	0 10	4 30	0 46	17 8	1 47	20 45	12 50	20 12	20 6	11 52	17 21	3 21			
M29	21 30	16 18	4 27	25 45	2 24	19 26	0 40	9 24	0 58	19 32	0 22	21 27	0 10	4 30	0 46	17 8	1 47	20 44	12 50	20 11	20 5	11 50	17 22	3 21			
T 30	21s40	12s24	5n 1	25s48	2s25	19s43	0n38	9s38	0n58	19n33	0n22	21s26	0s10	4n29	0n46	17n 7	1s47	20s44	12s50	20s11	20s 4	11n48	17s24	3n21			

ASTRODIENST EPHEMERIS for the year 2049
geocentric

DECEMBER 2049

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	4 41 11	9♂13°15'	26♂14	28♂12	2♂14	27♂59	4♂R11	24♂16	20♂28	24♂R19	7♂12	0♂R12	29♂37	14♂21	2♂47	W 1
T 2	4 45 7	10°14'03	10♂25	29°34	3°30	28°38	4♂9	24°21	20°29	24♂17	7°12	0°D12	29°34	14°28	2°55	T 2
F 3	4 49 4	11°14'53	24°24	0♂54	4°45	29°16	4°7	24°27	20°30	24°16	7°12	0♂12	29°31	14°34	3°2	F 3
S 4	4 53 0	12°15'43	8♂10	2°12	6°1	29°54	4°4	24°33	20°32	24°14	7°13	0°13	29°28	14°41	3°10	S 4
S 5	4 56 57	13°16'34	21°43	3°29	7°16	0♂32	4°1	24°39	20°33	24°12	7°13	0°14	29°25	14°48	3°18	S 5
M 6	5 0 53	14°17'26	5♂2	4°43	8°32	1°10	3°58	24°45	20°34	24°11	7°13	0°15	29°21	14°55	3°25	M 6
T 7	5 4 50	15°18'19	18°9	5°54	9°47	1°48	3°55	24°51	20°35	24°9	7°14	0°16	29°18	15°1	3°33	T 7
W 8	5 8 47	16°19'13	1♂3	7°3	11°3	2°27	3°52	24°57	20°36	24°8	7°14	0°R16	29°15	15°8	3°41	W 8
T 9	5 12 43	17°20'08	13°45	8°9	12°18	3°5	3°48	25°3	20°37	24°6	7°15	0°16	29°12	15°15	3°48	T 9
F 10	5 16 40	18°21'04	26°14	9°10	13°34	3°43	3°45	25°9	20°38	24°5	7°15	0°14	29°9	15°21	3°56	F 10
S 11	5 20 36	19°22'00	8♂33	10°7	14°49	4°21	3°41	25°15	20°39	24°3	7°16	0°12	29°6	15°28	4°3	S 11
S 12	5 24 33	20°22'58	20°41	10°59	16°5	4°59	3°37	25°22	20°40	24°2	7°16	0°9	29°2	15°35	4°11	S 12
M13	5 28 29	21°23'57	2♂41	11°45	17°20	5°38	3°32	25°28	20°40	24°0	7°17	0°5	28°59	15°42	4°18	M13
T 14	5 32 26	22°24'56	14°35	12°24	18°36	6°16	3°28	25°34	20°41	23°59	7°17	0°1	28°56	15°48	4°26	T 14
W15	5 36 22	23°25'57	26°27	12°55	19°51	6°54	3°23	25°41	20°42	23°57	7°18	29♂58	28°53	15°55	4°33	W15
T 16	5 40 19	24°26'58	8♂19	13°19	21°7	7°32	3°19	25°47	20°42	23°56	7°19	29°56	28°50	16°2	4°41	T 16
F 17	5 44 16	25°28'00	20°17	13°33	22°22	8°10	3°14	25°53	20°43	23°54	7°19	29°D55	28°47	16°8	4°48	F 17
S 18	5 48 12	26°29'04	2♂25	13°R37	23°38	8°49	3°8	26°0	20°43	23°53	7°20	29°55	28°43	16°15	4°56	S 18
S 19	5 52 9	27°30'08	14°48	13°30	24°53	9°27	3°3	26°6	20°44	23°52	7°21	29°56	28°40	16°22	5°3	S 19
M20	5 56 5	28°31'13	27°30	13°12	26°9	10°5	2°58	26°13	20°44	23°50	7°21	29°57	28°37	16°29	5°10	M20
T 21	6 0 2	29°32'19	10♂36	12°42	27°24	10°43	2°52	26°20	20°44	23°49	7°22	29°59	28°34	16°35	5°18	T 21
W22	6 3 58	0♂33'26	24°7	12°0	28°40	11°21	2°46	26°26	20°45	23°48	7°23	0°R0	28°31	16°42	5°25	W22
T 23	6 7 55	1°34'34	8♂4	11°7	29°55	11°59	2°41	26°33	20°45	23°47	7°24	0♂1	28°27	16°49	5°32	T 23
F 24	6 11 51	2°35'42	22°26	10°5	1♂11	12°38	2°35	26°40	20°45	23°45	7°25	29♂58	28°24	16°56	5°39	F 24
S 25	6 15 48	3°36'50	7♂8	8°53	2°26	13°16	2°28	26°46	20°45	23°44	7°25	29°55	28°21	17°2	5°46	S 25
S 26	6 19 45	4°38'00	22°3	7°36	3°42	13°54	2°22	26°53	20°R45	23°43	7°26	29°50	28°18	17°9	5°53	S 26
M27	6 23 41	5°39'09	7♂1	6°15	4°57	14°32	2°16	27°0	20°45	23°42	7°27	29°45	28°15	17°16	6°1	M27
T 28	6 27 38	6°40'18	21°55	4°53	6°13	15°10	2°9	27°7	20°45	23°41	7°28	29°39	28°12	17°22	6°8	T 28
W29	6 31 34	7°41'27	6♂36	3°32	7°28	15°48	2°2	27°14	20°45	23°39	7°29	29°34	28°8	17°29	6°15	W29
T 30	6 35 31	8°42'36	20°59	2°16	8°44	16°27	1°55	27°21	20°45	23°38	7°30	29°31	28°5	17°36	6°22	T 30
F 31	6 39 27	9♂43'45	5♂0	1♂5	9♂59	17♂5	1♂49	27♂28	20♂44	23♂37	7♂31	29°D30	28♂2	17♂43	6♂28	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	21s50	7s48	5n16	25s50	2s25	20s1	0n36	9s52	0n58	19n34	0n22	21s25	0s10	4n29	0n46	17n7
T 2	21 59	2 51	5 12	25 51	2 25	20 18	0 34	10 5	0 57	19 34	0 22	21 24	0 10	4 28	0 46	17 7
F 3	22 7	2n12	4 49	25 50	2 25	20 34	0 32	10 19	0 57	19 35	0 22	21 24	0 10	4 28	0 46	17 6
S 4	22 15	7 4	4 10	25 48	2 23	20 49	0 29	10 33	0 57	19 36	0 22	21 23	0 10	4 27	0 46	17 6
S 5	22 23	11 31	3 18	25 44	2 21	21 4	0 27	10 47	0 56	19 37	0 23	21 22	0 10	4 27	0 46	17 5
M 6	22 30	15 19	2 15	25 39	2 19	21 19	0 25	11 0	0 56	19 38	0 23	21 21	0 11	4 27	0 46	17 5
T 7	22 37	18 18	1 7	25 33	2 15	21 33	0 22	11 14	0 56	19 38	0 23	21 20	0 11	4 26	0 46	17 5
W 8	22 44	20 18	0s4	25 25	2 11	21 46	0 20	11 27	0 55	19 39	0 23	21 19	0 11	4 26	0 46	17 4
T 9	22 50	21 13	1 14	25 16	2 6	21 58	0 18	11 40	0 55	19 40	0 23	21 17	0 11	4 25	0 46	17 4
F 10	22 55	21 4	2 18	25 6	2 0	22 10	0 15	11 54	0 55	19 41	0 24	21 16	0 11	4 25	0 46	17 4
S 11	23 0	19 54	3 16	24 55	1 53	22 21	0 13	12 7	0 54	19 43	0 24	21 15	0 11	4 25	0 46	17 3
S 12	23 5	17 50	4 3	24 43	1 45	22 32	0 10	12 20	0 54	19 44	0 24	21 14	0 11	4 25	0 46	17 3
M13	23 9	15 1	4 39	24 30	1 35	22 42	0 8	12 33	0 54	19 45	0 24	21 13	0 11	4 24	0 46	17 3
T 14	23 13	11 37	5 3	24 16	1 25	22 51	0 6	12 46	0 53	19 46	0 24	21 12	0 11	4 24	0 46	17 2
W15	23 16	7 47	5 14	24 1	1 13	22 59	0 3	12 59	0 53	19 47	0 24	21 11	0 11	4 24	0 46	17 2
T 16	23 19	3 38	5 11	23 46	1 0	23 7	0 1	13 11	0 53	19 49	0 25	21 10	0 11	4 24	0 47	17 2
F 17	23 21	0s40	4 55	23 30	0 46	23 14	0s2	13 24	0 52	19 50	0 25	21 9	0 11	4 24	0 47	17 1
S 18	23 23	5 1	4 25	23 14	0 30	23 21	0 4	13 37	0 52	19 51	0 25	21 8	0 11	4 23	0 47	17 1
S 19	23 24	9 15	3 43	22 58	0 13	23 26	0 6	13 49	0 52	19 53	0 25	21 6	0 11	4 23	0 47	17 1
M20	23 25	13 12	2 49	22 42	0n5	23 31	0 9	14 1	0 51	19 54	0 25	21 5	0 11	4 23	0 47	17 1
T 21	23 26	16 39	1 44	22 26	0 24	23 35	0 11	14 14	0 51	19 56	0 26	21 4	0 11	4 23	0 47	17 0
W22	23 26	19 19	0 32	22 10	0 43	23 39	0 14	14 26	0 51	19 57	0 26	21 3	0 12	4 23	0 47	17 0
T 23	23 25	20 55	0n44	21 55	1 3	23 42	0 16	14 38	0 50	19 59	0 26	21 2	0 12	4 23	0 47	17 0
F 24	23 24	21 14	2 0	21 40	1 23	23 44	0 18	14 50	0 50	20 0	0 26	21 0	0 12	4 23	0 47	16 59
S 25	23 23	20 6	3 9	21 26	1 42	23 45	0 21	15 2	0 49	20 2	0 26	20 59	0 12	4 23	0 47	16 59
S 26	23 21	17 35	4 6	21 12	2 1	23 46	0 23	15 14	0 49	20 3	0 26	20 58	0 12	4 23	0 47	16 59
M27	23 19	13 53	4 47	21 0	2 17	23 45	0 25	15 25	0 49	20 5	0 27	20 57	0 12	4 23	0 47	16 59
T 28	23 16	9 20	5 8	20 48	2 32	23 45	0 27	15 37	0 48	20 7	0 27	20 55	0 12	4 23	0 47	16 58
W29	23 12	4 18	5 8	20 38	2 45	23 43	0 30	15 48	0 48	20 8	0 27	20 54	0 12	4 23	0 47	16 58
T 30	23 9	0n52	4 49	20 30	2 55	23 41	0 32	16 0	0 47	20 10	0 27	20 53	0 12	4 23	0 47	16 58
F 31	23s4	5n52	4n13	20s23	3n3	23s37	0s34	16s11	0n47	20n12	0n27	20s52	0s12	4n24	0n47	16n58

Julian Day Number = 2469776.5, Delta T = 74.56 sec
Ecliptic obliquity = 23°25'53, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 25°26'15, Lahiri = 24°33'16