



Astrodienst Ephemeris Tables for the year 2147

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 2147
geocentric

JANUARY 2147

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	6 41 26	10 ³ 11'14	21 ² 26	27 ³ 36	26 ¹ 4	24 ⁷ 5	9 ² 30	9°R 4	21 ¹ 56	27 ² 47	17°R47	10°R37	11 ¹ 56	4 ² 45	24 ² 54	S 1
M 2	6 45 23	11°12'24	6 ³ 28	29° 2	27°14	24°33	9°34	9 ³ 3	21°59	27°49	17 ¹ 46	10 ¹ 28	11°53	4°52	24°58	M 2
T 3	6 49 19	12°13'35	21°40	0 ² 25	28°23	25° 2	9°39	9° 2	22° 2	27°51	17°45	10°19	11°50	4°58	25° 3	T 3
W 4	6 53 16	13°14'45	6 ² 51	1°46	29°33	25°30	9°43	9° 1	22° 5	27°53	17°44	10°13	11°46	5° 5	25° 7	W 4
T 5	6 57 13	14°15'55	21°51	3° 5	0 ² 43	25°59	9°46	9° 1	22° 7	27°55	17°42	10° 9	11°43	5°12	25°11	T 5
F 6	7 1 9	15°17'05	6 ¹ 32	4°19	1°53	26°29	9°50	9° 0	22°10	27°58	17°41	10°D 7	11°40	5°18	25°15	F 6
S 7	7 5 6	16°18'15	20°51	5°30	3° 3	26°58	9°53	9° 0	22°13	28° 0	17°40	10° 8	11°37	5°25	25°19	S 7
S 8	7 9 2	17°19'25	4 ⁷ 45	6°35	4°13	27°28	9°57	8°59	22°15	28° 2	17°39	10° 9	11°34	5°32	25°23	S 8
M 9	7 12 59	18°20'34	18°16	7°35	5°23	27°58	10° 0	8°59	22°18	28° 4	17°39	10°R 9	11°31	5°38	25°27	M 9
T 10	7 16 55	19°21'42	1 ² 25	8°29	6°34	28°28	10° 3	8°59	22°20	28° 6	17°38	10° 8	11°27	5°45	25°30	T 10
W 11	7 20 52	20°22'50	14°15	9°16	7°45	28°58	10° 5	8°D59	22°22	28° 8	17°37	10° 5	11°24	5°52	25°34	W 11
T 12	7 24 48	21°23'58	26°51	9°55	8°55	29°28	10° 8	8°59	22°25	28°11	17°36	10° 0	11°21	5°59	25°37	T 12
F 13	7 28 45	22°25'06	9 ¹ 13	10°24	10° 6	29°59	10°10	8°59	22°27	28°13	17°35	9°53	11°18	6° 5	25°40	F 13
S 14	7 32 42	23°26'13	21°26	10°44	11°17	0 ² 30	10°13	9° 0	22°29	28°15	17°34	9°45	11°15	6°12	25°43	S 14
S 15	7 36 38	24°27'19	3 ² 30	10°R53	12°28	1° 1	10°15	9° 0	22°32	28°17	17°33	9°35	11°12	6°19	25°46	S 15
M 16	7 40 35	25°28'25	15°29	10°51	13°39	1°32	10°16	9° 1	22°34	28°19	17°32	9°26	11° 8	6°25	25°49	M 16
T 17	7 44 31	26°29'31	27°22	10°37	14°50	2° 3	10°18	9° 1	22°36	28°21	17°31	9°19	11° 5	6°32	25°52	T 17
W 18	7 48 28	27°30'36	9 ¹ 12	10°12	16° 1	2°35	10°19	9° 2	22°38	28°23	17°30	9°13	11° 2	6°39	25°55	W 18
T 19	7 52 24	28°31'41	21° 0	9°34	17°13	3° 6	10°21	9° 3	22°40	28°25	17°29	9° 9	10°59	6°45	25°57	T 19
F 20	7 56 21	29°32'45	2 ¹ 49	8°47	18°24	3°38	10°22	9° 4	22°42	28°27	17°29	9° 7	10°56	6°52	26° 0	F 20
S 21	8 0 17	0 ² 33'50	14°42	7°49	19°36	4°10	10°23	9° 5	22°44	28°29	17°28	9°D 7	10°52	6°59	26° 2	S 21
S 22	8 4 14	1°34'53	26°41	6°43	20°47	4°42	10°23	9° 6	22°46	28°31	17°27	9° 8	10°49	7° 5	26° 4	S 22
M 23	8 8 11	2°35'56	8 ² 52	5°31	21°59	5°14	10°24	9° 8	22°48	28°33	17°26	9°10	10°46	7°12	26° 6	M 23
T 24	8 12 7	3°36'59	21°18	4°15	23°11	5°47	10°24	9° 9	22°50	28°35	17°25	9°11	10°43	7°19	26° 8	T 24
W 25	8 16 4	4°38'02	4 ¹ 4	2°58	24°22	6°19	10°R24	9°11	22°52	28°37	17°25	9°R12	10°40	7°25	26°10	W 25
T 26	8 20 0	5°39'04	17°13	1°42	25°34	6°52	10°24	9°12	22°53	28°39	17°24	9°11	10°37	7°32	26°12	T 26
F 27	8 23 57	6°40'06	0 ² 51	0°28	26°46	7°24	10°24	9°14	22°55	28°41	17°23	9° 9	10°33	7°39	26°14	F 27
S 28	8 27 53	7°41'07	14°56	29 ² 19	27°58	7°57	10°23	9°16	22°57	28°43	17°23	9° 6	10°30	7°45	26°15	S 28
S 29	8 31 50	8°42'08	29°29	28°17	29°11	8°30	10°23	9°18	22°58	28°44	17°22	9° 1	10°27	7°52	26°17	S 29
M 30	8 35 46	9°43'08	14 ² 25	27°22	0 ² 23	9° 3	10°22	9°20	23° 0	28°46	17°21	8°57	10°24	7°59	26°18	M 30
T 31	8 39 43	10 ² 44'08	29 ² 36	26 ² 36	1 ² 35	9 ² 36	10 ² 21	9 ² 22	23 ¹ 1	28 ² 48	17 ¹ 21	8 ¹ 53	10 ¹ 21	8 ² 5	26 ² 19	T 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	lat
S 1	23s 2	18s10	4n59	22s30	1s55	16s41	2n38	9n58	0n41	2s35	1n17	12n 9	2s29	17s56	0n19	22s10	1n14	12n54	9s59	7n35	7n 5	16n 2	10s59	1s28		
M 2	22 57	18 42	4 34	22 7	1 50	16 58	2 37	10 9	0 42	2 36	1 17	12 9	2 28	17 57	0 19	22 10	1 14	12 54	9 59	7 38	7 6	16 1	11 1	1 27		
T 3	22 51	17 54	3 49	21 44	1 44	17 15	2 36	10 21	0 43	2 38	1 18	12 9	2 28	17 57	0 19	22 10	1 14	12 55	9 59	7 42	7 7	16 0	11 2	1 27		
W 4	22 46	15 49	2 48	21 19	1 37	17 31	2 35	10 33	0 44	2 39	1 18	12 9	2 28	17 58	0 19	22 11	1 14	12 55	9 59	7 44	7 8	15 59	11 4	1 27		
T 5	22 39	12 41	1 36	20 53	1 29	17 46	2 34	10 44	0 46	2 40	1 18	12 9	2 28	17 59	0 19	22 11	1 14	12 55	9 59	7 45	7 10	15 58	11 5	1 27		
F 6	22 33	8 48	0 19	20 27	1 20	18 2	2 33	10 56	0 47	2 41	1 19	12 9	2 27	17 59	0 19	22 11	1 14	12 55	9 59	7 46	7 11	15 58	11 6	1 27		
S 7	22 25	4 30	0s57	20 1	1 10	18 17	2 31	11 8	0 48	2 42	1 19	12 10	2 27	18 0	0 19	22 11	1 14	12 55	9 58	7 46	7 12	15 57	11 8	1 27		
S 8	22 18	0 5	2 9	19 34	0 59	18 31	2 30	11 19	0 49	2 43	1 19	12 10	2 27	18 1	0 19	22 11	1 14	12 55	9 58	7 45	7 13	15 56	11 9	1 26		
M 9	22 10	4n13	3 10	19 7	0 47	18 45	2 28	11 31	0 50	2 44	1 19	12 10	2 26	18 1	0 19	22 11	1 14	12 55	9 58	7 45	7 14	15 55	11 10	1 26		
T 10	22 1	8 11	4 1	18 40	0 34	18 59	2 26	11 43	0 51	2 45	1 20	12 10	2 26	18 2	0 19	22 11	1 14	12 55	9 58	7 46	7 16	15 54	11 11	1 26		
W 11	21 52	11 41	4 37	18 15	0 20	19 12	2 24	11 55	0 52	2 46	1 20	12 10	2 26	18 2	0 19	22 11	1 14	12 55	9 58	7 47	7 17	15 53	11 12	1 26		
T 12	21 43	14 34	5 0	17 50	0 5	19 25	2 23	12 6	0 53	2 47	1 20	12 11	2 26	18 3	0 19	22 11	1 14	12 55	9 58	7 49	7 18	15 52	11 13	1 26		
F 13	21 33	16 45	5 8	17 26	0n11	19 38	2 21	12 18	0 54	2 48	1 20	12 11	2 25	18 4	0 19	22 11	1 14	12 55	9 58	7 51	7 19	15 51	11 15	1 26		
S 14	21 23	18 8	5 1	17 5	0 28	19 50	2 18	12 30	0 55	2 48	1 21	12 11	2 25	18 4	0 19	22 11	1 14	12 55	9 57	7 55	7 20	15 50	11 15	1 25		
S 15	21 13	18 41	4 42	16 45	0 46	20 1	2 16	12 42	0 56	2 49	1 21	12 12	2 25	18 5	0 19	22 11	1 14	12 55	9 57	7 58	7 22	15 49	11 16	1 25		
M 16	21 2	18 23	4 10	16 28	1 4	20 12	2 14	12 53	0 57	2 49	1 21	12 12	2 24	18 5	0 19	22 11	1 14	12 55	9 57	8 1	7 23	15 48	11 17	1 25		
T 17	20 50	17 17	3 27	16 14	1 23	20 22	2 12	13 5	0 58	2 50	1 21	12 13	2 24	18 6	0 19	22 11	1 14	12 56	9 57	8 4	7 24	15 47	11 18	1 25		
W 18	20 38	15 26	2 35	16 3	1 41	20 32	2 9	13 17	0 59	2 50	1 22	12 13	2 24	18 6	0 19	22 11	1 14	12 56	9 57	8 7	7 25	15 47	11 19	1 25		
T 19	20 26	12 57	1 37	15 55	2 0	20 42	2 7	13 28	1 0	2 50	1 22	12 14	2 23	18 7	0 19	22 11	1 14	12 56	9 56	8 8	7 27	15 46	11 20	1 25		
F 20	20 14	9 56	0 34	15 50	2 17	20 51	2 5	13 40	1 1	2 50	1 22	12 15	2 23	18 7	0 19	22 11	1 14	12 56	9 56	8 9	7 28	15 45	11 21	1 24		
S 21	20 1	6 29	0n30	15 49	2 34	20 59	2 2	13 52	1 1	2 50	1 23	12 15	2 23	18 8	0 19	22 11	1 14	12 56	9 56	8 9	7 29	15 44	11 21	1 24		
S 22	19 47	2 46	1 35	15 51	2 49	21 7	1 59	14 3	1 2	2 50	1 23	12 16	2 23	18 8	0 19	22 11	1 14	12 56	9 56	8 8	7 30	15 43	11 22	1 24		
M 23	19 34	1s 8	2 35	15 55	3 2	21 14	1 57	14 15	1 3	2 50	1 23	12 17	2 22	18 9	0 19	22 11	1 14	12 56	9 56	8 8	7 31	15 42	11 22	1 24		
T 24	19 20	5 3	3 30	16 3	3 14	21 21	1 54	14 26	1 4	2 50	1 23	12 17	2 22	18 9	0 19	22 11	1 14	12 56	9 56	8 7	7 33	15 41	11 23	1 24		
W 25	19 5	8 50	4 16	16 12	3 22	21 27	1 51	14 38	1 4	2 50	1 24	12 18	2 22	18 10	0 19	22 11	1 14	12 57	9 55	8 7	7 34	15 40	11 24	1 24		
T 26	18 50	12 19	4 51	16 23	3 28	21 32	1 48	14 49	1 5	2 50	1 24	12 19	2 21	18 10	0 19	22 11	1 14	12 57	9 55	8 7	7 35	15 39	11 24	1 23		
F 27	18 35	15 15	5 10	16 35	3 32	21 37	1 46	15 0	1 6	2 49	1 24	12 20	2 21	18 11	0 19	22 11	1 14	12 57	9 55	8 8	7 36	15 38	11 24	1 23		
S 28	18 20	17 24	5 11	16 48	3 33	21 42	1 43	15 12	1 7	2 49	1 24	12 21	2 21	18 11	0 19	22 11	1 14	12 57	9 55	8 9	7 37	15 37	11 25	1 23		
S 29	18 4	18 31	4 54	17 1	3 32	21 45	1 40	15 23	1 7	2 48	1 25	12 21	2 20	18 11	0 19	22 11	1 14	12 57	9 54	8 11	7 39	15 36	11 25	1 23		
M 30	17 48	18 24	4 15	17 15	3 29	21 48	1 37	15 34	1 8	2 48	1 25	12 22	2 20	18 12	0 19	22 11	1 14	12 57	9 54	8 13	7 40	15 35	11 25	1 23		
T 31	17s32	16s58	3n19	17s29	3n24	21s51	1n34	15n46	1n 8	2s47	1n25	12n23	2s20	18s12	0n19	22s11	1n14	12n57	9s54	8n14	7n41	15n34	11s26	1s22		

ASTRODIENST EPHEMERIS for the year 2147
geocentric

MARCH 2147

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	10 34 3	10 ^h 3'26	22 ^m 54	16 ^s 9	6 ^m 47	26 ^h 8'17	8°R32	11 ^h 8'9	23°R20	29 ^h 27'30	17°R11	8 ^m 42	8 ^m 49	11 ^h 18'18	26°R 1	W 1
T 2	10 38 0	11° 3'45	7 ^h 58	17°32	8° 1	26°52	8 ^h 26	11°14	23 ^h 20	29°31	17°D11	8°R42	8°45	11°25	25° 59	T 2
F 3	10 41 56	12° 4'03	22°53	18°55	9°14	27°28	8°20	11°19	23°20	29°32	17 ^h 11	8°42	8°42	11°32	25°56	F 3
S 4	10 45 53	13° 4'18	7 ^h 34	20°20	10°27	28° 3	8°14	11°24	23°20	29°33	17°11	8°41	8°39	11°38	25°54	S 4
S 5	10 49 49	14° 4'32	21°52	21°47	11°41	28°39	8° 7	11°30	23°19	29°34	17°11	8°41	8°36	11°45	25°51	S 5
M 6	10 53 46	15° 4'44	5 ^h 45	23°14	12°54	29°15	8° 1	11°35	23°19	29°35	17°11	8°40	8°33	11°52	25°48	M 6
T 7	10 57 42	16° 4'53	19°11	24°43	14° 7	29°50	7°54	11°40	23°19	29°36	17°11	8°39	8°29	11°58	25°46	T 7
W 8	11 1 39	17° 5'01	2 ^h 11	26°13	15°21	0 ^h 26	7°47	11°46	23°18	29°36	17°11	8°39	8°26	12° 5	25°43	W 8
T 9	11 5 35	18° 5'07	14°48	27°44	16°34	1° 2	7°40	11°51	23°18	29°37	17°11	8°D38	8°23	12°12	25°40	T 9
F 10	11 9 32	19° 5'10	27° 7	29°16	17°48	1°38	7°33	11°57	23°17	29°38	17°12	8°38	8°20	12°18	25°37	F 10
S 11	11 13 29	20° 5'12	9 ^h 11	0 ^h 50	19° 1	2°13	7°26	12° 3	23°16	29°39	17°12	8°39	8°17	12°25	25°33	S 11
S 12	11 17 25	21° 5'11	21° 5	2°24	20°15	2°49	7°19	12° 9	23°16	29°39	17°12	8°40	8°14	12°32	25°30	S 12
M13	11 21 22	22° 5'08	2 ^h 54	4° 0	21°28	3°25	7°12	12°14	23°15	29°40	17°12	8°41	8°10	12°38	25°27	M13
T 14	11 25 18	23° 5'03	14°42	5°37	22°41	4° 1	7° 5	12°20	23°14	29°41	17°13	8°43	8° 7	12°45	25°23	T 14
W15	11 29 15	24° 4'56	26°32	7°15	23°55	4°37	6°57	12°26	23°13	29°41	17°13	8°44	8° 4	12°52	25°20	W15
T 16	11 33 11	25° 4'47	8 ^h 28	8°54	25° 8	5°13	6°50	12°32	23°12	29°42	17°13	8°R44	8° 1	12°58	25°16	T 16
F 17	11 37 8	26° 4'35	20°32	10°34	26°22	5°49	6°42	12°38	23°11	29°42	17°13	8°44	7°58	13° 5	25°13	F 17
S 18	11 41 4	27° 4'22	2 ^h 45	12°16	27°35	6°25	6°35	12°44	23°10	29°43	17°14	8°42	7°55	13°12	25° 9	S 18
S 19	11 45 1	28° 4'07	15°10	13°58	28°49	7° 2	6°27	12°51	23° 9	29°43	17°14	8°40	7°51	13°18	25° 5	S 19
M20	11 48 58	29° 3'50	27°47	15°42	0 ^h 2	7°38	6°20	12°57	23° 8	29°44	17°14	8°37	7°48	13°25	25° 1	M20
T 21	11 52 54	0 ^h 31	10 ^h 38	17°28	1°16	8°14	6°12	13° 3	23° 7	29°44	17°15	8°34	7°45	13°32	24°58	T 21
W22	11 56 51	1° 3'10	23°42	19°14	2°29	8°50	6° 4	13°10	23° 6	29°44	17°15	8°30	7°42	13°38	24°54	W22
T 23	12 0 47	2° 2'48	7 ^h 0	21° 2	3°43	9°26	5°57	13°16	23° 5	29°45	17°16	8°28	7°39	13°45	24°49	T 23
F 24	12 4 44	3° 2'24	20°33	22°50	4°57	10° 2	5°49	13°22	23° 3	29°45	17°16	8°26	7°35	13°52	24°45	F 24
S 25	12 8 40	4° 1'58	4 ^h 21	24°41	6°10	10°39	5°41	13°29	23° 2	29°45	17°17	8°D26	7°32	13°58	24°41	S 25
S 26	12 12 37	5° 1'31	18°24	26°32	7°24	11°15	5°33	13°36	23° 1	29°46	17°17	8°26	7°29	14° 5	24°37	S 26
M27	12 16 33	6° 1'02	2 ^h 41	28°25	8°37	11°51	5°26	13°42	22°59	29°46	17°18	8°27	7°26	14°12	24°33	M27
T 28	12 20 30	7° 0'31	17°10	0 ^h 19	9°51	12°28	5°18	13°49	22°58	29°46	17°18	8°29	7°23	14°18	24°28	T 28
W29	12 24 27	7°59'58	1 ^h 47	2°14	11° 4	13° 4	5°10	13°56	22°56	29°46	17°19	8°R30	7°20	14°25	24°24	W29
T 30	12 28 23	8°59'23	16°28	4°10	12°18	13°40	5° 2	14° 2	22°55	29°46	17°19	8°30	7°16	14°32	24°20	T 30
F 31	12 32 20	9 ^h 58'47	1 ^h 6	6 ^h 8	13 ^h 32	14 ^h 17	4 ^h 55	14 ^h 9	22 ^h 53	29 ^h 46	17 ^h 20	8 ^h 28	7 ^h 13	14 ^h 38	24 ^h 15	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	decl lat	decl lat
W 1	7s47	12s30	1n27	17s13	1s17	18s34	0s 1	20n37	1n21	1s59	1n32	13n 4	2s12	18s17	0n19	22s10
T 2	7 25	8 31	0 4	16 54	1 24	18 19	0 4	20 45	1 21	1 56	1 32	13 6	2 12	18 17	0 19	22 10
F 3	7 2 4	1 1s18	16 33	1 30	18 2	0 7	20 54	1 21	1 53	1 32	13 7	2 12	18 17	0 19	22 10	1 15
S 4	6 39	0n38	2 34	16 12	1 35	17 46	0 10	21 2	1 22	1 51	1 32	13 9	2 11	18 16	0 19	22 10
S 5	6 16	5 9	3 38	15 49	1 41	17 29	0 13	21 10	1 22	1 48	1 33	13 11	2 11	18 16	0 19	22 10
M 6	5 52	9 13	4 27	15 25	1 46	17 11	0 16	21 18	1 22	1 45	1 33	13 13	2 11	18 16	0 19	22 10
T 7	5 29	12 42	5 0	15 0	1 50	16 53	0 19	21 26	1 22	1 43	1 33	13 15	2 11	18 16	0 19	22 10
W 8	5 6	15 25	5 16	14 34	1 54	16 34	0 22	21 34	1 22	1 40	1 33	13 17	2 11	18 16	0 19	22 10
T 9	4 42	17 19	5 16	14 6	1 58	16 15	0 25	21 42	1 23	1 37	1 33	13 19	2 10	18 16	0 19	22 10
F 10	4 19	18 22	5 1	13 37	2 2	15 55	0 28	21 49	1 23	1 34	1 33	13 21	2 10	18 16	0 19	22 10
S 11	3 55	18 33	4 34	13 7	2 5	15 35	0 30	21 57	1 23	1 31	1 33	13 22	2 10	18 16	0 19	22 10
S 12	3 32	17 54	3 55	12 35	2 7	15 15	0 33	22 4	1 23	1 28	1 34	13 24	2 10	18 15	0 19	22 10
M13	3 8	16 28	3 6	12 3	2 10	14 54	0 36	22 11	1 23	1 25	1 34	13 26	2 10	18 15	0 19	22 10
T 14	2 45	14 21	2 9	11 29	2 11	14 33	0 38	22 18	1 24	1 22	1 34	13 28	2 9	18 15	0 20	22 10
W15	2 21	11 36	1 7	10 54	2 13	14 11	0 41	22 25	1 24	1 19	1 34	13 30	2 9	18 15	0 20	22 10
T 16	1 57	8 22	0 1	10 18	2 14	13 49	0 44	22 32	1 24	1 16	1 34	13 32	2 9	18 15	0 20	22 10
F 17	1 34	4 45	1n 5	9 40	2 14	13 26	0 46	22 38	1 24	1 13	1 34	13 34	2 9	18 14	0 20	22 10
S 18	1 10	0 53	2 9	9 1	2 14	13 3	0 48	22 45	1 24	1 10	1 34	13 36	2 9	18 14	0 20	22 10
S 19	0 46	3s 5	3 8	8 22	2 14	12 40	0 51	22 51	1 24	1 7	1 34	13 38	2 8	18 14	0 20	22 10
M20	0 22	6 58	3 59	7 41	2 13	12 17	0 53	22 57	1 24	1 4	1 34	13 40	2 8	18 14	0 20	22 10
T 21	0n 1	10 35	4 38	6 59	2 12	11 53	0 55	23 3	1 25	1 1	1 34	13 42	2 8	18 13	0 20	22 10
W22	0 25	13 46	5 4	6 15	2 10	11 28	0 58	23 9	1 25	0 58	1 34	13 45	2 8	18 13	0 20	22 10
T 23	0 49	16 17	5 15	5 31	2 8	11 4	1 0	23 15	1 25	0 55	1 34	13 47	2 8	18 13	0 20	22 10
F 24	1 12	17 58	5 8	4 46	2 5	10 39	1 2	23 20	1 25	0 52	1 34	13 49	2 7	18 12	0 20	22 10
S 25	1 36	18 38	4 43	3 59	2 2	10 14	1 4	23 25	1 25	0 49	1 34	13 51	2 7	18 12	0 20	22 10
S 26	2 0	18 10	4 2	3 11	1 58	9 48	1 6	23 31	1 25	0 46	1 35	13 53	2 7	18 12	0 20	22 10
M27	2 23	16 33	3 4	2 23	1 54	9 23	1 8	23 36	1 25	0 42	1 35	13 55	2 7	18 11	0 20	22 10
T 28	2 47	13 51	1 55	1 33	1 49	8 57	1 10	23 41	1 25	0 39	1 35	13 57	2 7	18 11	0 20	22 10
W29	3 10	10 15	0 37	0 43	1 44	8 31	1 11	23 45	1 25	0 36	1 35	13 59	2 7	18 10	0 20	22 9
T 30	3 34	6 0	0s44	0n 9	1 38	8 4	1 13	23 50	1 25	0 33	1 35	14 2	2 6	18 10	0 20	22 9
F 31	3n57	1s25	2s 1	1n 1	1s32	7s37	1s15	23n54	1n25	0s30	1n35	14n 4	2s 6	18s10	0n20	22s 9

Julian Day Number = 2505294.5, Delta T = 119.74 sec
Ecliptic obliquity = 23°25'04, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°47'48, Lahiri = 25°54'48

ASTRODIENST EPHEMERIS for the year 2147

geocentric

APRIL 2147

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 36 16	10°58'08	15°34'	8°7'	14°45'	14°53'	4°R47	14°8'16	22°R52	29°R46	17°II21	8°R25	7°10	14°45	24°R11	S 1
S 2	12 40 13	11°57'27	29°47'	10°7'	15°59'	15°30'	4°39	14°23	22°50	29°46	17°21	8°20	7°7	14°52	24°6	S 2
M 3	12 44 9	12°56'45	13°39'	12°8'	17°13'	16°6'	4°32	14°30	22°48	29°46	17°22	8°15	7°4	14°58	24°2	M 3
T 4	12 48 6	13°56'00	27°7'	14°10'	18°26'	16°43'	4°24	14°37	22°46	29°46	17°23	8°9	7°0	15°5	23°57	T 4
W 5	12 52 2	14°55'13	10°11'	16°13'	19°40'	17°19'	4°16	14°44	22°45	29°46	17°23	8°4	6°57	15°11	23°52	W 5
T 6	12 55 59	15°54'23	22°53'	18°16'	20°53'	17°56'	4°9	14°51	22°43	29°46	17°24	8°0	6°54	15°18	23°48	T 6
F 7	12 59 55	16°53'32	5°15	20°20'	22°7'	18°32'	4°2	14°58	22°41	29°46	17°25	7°58	6°51	15°25	23°43	F 7
S 8	13 3 52	17°52'38	17°21'	22°25'	23°21'	19°9'	3°54	15°5	22°39	29°46	17°26	7°D57	6°48	15°31	23°38	S 8
S 9	13 7 49	18°51'42	29°16'	24°29'	24°34'	19°46'	3°47	15°13	22°37	29°45	17°26	7°57	6°45	15°38	23°34	S 9
M10	13 11 45	19°50'43	11°12	26°33'	25°48'	20°22'	3°40	15°20	22°35	29°45	17°27	7°59	6°41	15°45	23°29	M10
T 11	13 15 42	20°49'42	22°53'	28°38'	27°1'	20°59'	3°32	15°27	22°33	29°45	17°28	8°0	6°38	15°51	23°24	T 11
W12	13 19 38	21°48'39	4°46	0°41	28°15'	21°35'	3°25	15°34	22°31	29°44	17°29	8°R 1	6°35	15°58	23°19	W12
T 13	13 23 35	22°47'34	16°47'	2°43	29°29'	22°12'	3°18	15°42	22°29	29°44	17°30	8°1	6°32	16°5	23°15	T 13
F 14	13 27 31	23°46'26	28°59'	4°44	0°42	22°49'	3°11	15°49	22°27	29°44	17°31	7°59	6°29	16°11	23°10	F 14
S 15	13 31 28	24°45'17	11°26	6°43	1°56	23°25'	3°5	15°56	22°25	29°43	17°32	7°54	6°26	16°18	23°5	S 15
S 16	13 35 24	25°44'05	24°8'	8°40'	3°9'	24°2'	2°58	16°4	22°23	29°43	17°32	7°48	6°22	16°25	23°1	S 16
M17	13 39 21	26°42'51	7°11	10°35'	4°23'	24°39'	2°51	16°11	22°21	29°42	17°33	7°40	6°19	16°31	22°56	M17
T 18	13 43 18	27°41'36	20°20'	12°27'	5°37'	25°15'	2°45	16°19	22°18	29°42	17°34	7°31	6°16	16°38	22°51	T 18
W19	13 47 14	28°40'18	3°47	14°16'	6°50'	25°52'	2°38	16°26	22°16	29°41	17°35	7°23	6°13	16°45	22°46	W19
T 20	13 51 11	29°38'59	17°26'	16°1'	8°4'	26°29'	2°32	16°34	22°14	29°41	17°36	7°16	6°10	16°51	22°42	T 20
F 21	13 55 7	0°37'38	1°14	17°43'	9°17'	27°6'	2°26	16°41	22°12	29°40	17°37	7°10	6°6	16°58	22°37	F 21
S 22	13 59 4	1°36'16	15°10'	19°21'	10°31'	27°42'	2°20	16°49	22°9	29°39	17°38	7°7	6°3	17°5	22°32	S 22
S 23	14 3 0	2°34'52	29°12'	20°55'	11°45'	28°19'	2°14	16°56	22°7	29°39	17°39	7°D 5	6°0	17°11	22°28	S 23
M24	14 6 57	3°33'26	13°20	22°24'	12°58'	28°56'	2°8	17°4	22°5	29°38	17°40	7°6	5°57	17°18	22°23	M24
T 25	14 10 53	4°31'59	27°31'	23°50'	14°12'	29°33'	2°3	17°11	22°2	29°37	17°41	7°6	5°54	17°25	22°19	T 25
W26	14 14 50	5°30'30	11°45	25°10'	15°25'	0°59	1°57	17°19	22°0	29°37	17°42	7°R 7	5°51	17°31	22°14	W26
T 27	14 18 47	6°28'59	26°0'	26°26'	16°39'	0°46	1°52	17°27	21°58	29°36	17°43	7°5	5°47	17°38	22°10	T 27
F 28	14 22 43	7°27'26	10°11	27°37'	17°53'	1°23'	1°47	17°34	21°55	29°35	17°45	7°1	5°44	17°44	22°5	F 28
S 29	14 26 40	8°25'52	24°16'	28°43'	19°6'	2°0'	1°41	17°42	21°53	29°34	17°46	6°55	5°41	17°51	22°1	S 29
S 30	14 30 36	9°24'17	8°10	29°44	20°20	2°37	1°43	17°50	21°50	29°33	17°47	6°46	5°38	17°58	21°56	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	decl lat
S 1	4n20	3n13	3 s 9	1n54	1s25	7s10	1s16	23n59	1n25	0s27	1n35	14n 6	2s 6	18s 9	0n20	22s 9
S 2	4 43	7 34	4 4	2 48	1 18	6 43	1 18	24 3	1 25	0 24	1 35	14 8	2 6	18 9	0 20	22 9
M 3	5 6	11 24	4 44	3 43	1 10	6 16	1 19	24 7	1 26	0 21	1 34	14 10	2 6	18 8	0 20	22 9
T 4	5 29	14 32	5 6	4 38	1 2	5 49	1 21	24 10	1 26	0 18	1 34	14 12	2 6	18 8	0 20	22 9
W 5	5 52	16 49	5 11	5 33	0 53	5 21	1 22	24 14	1 26	0 15	1 34	14 15	2 6	18 8	0 20	22 9
T 6	6 15	18 13	5 1	6 29	0 44	4 53	1 23	24 17	1 26	0 12	1 34	14 17	2 5	18 7	0 20	22 9
F 7	6 38	18 42	4 37	7 25	0 34	4 25	1 25	24 21	1 26	0 9	1 34	14 19	2 5	18 7	0 20	22 9
S 8	7 0	18 18	4 1	8 20	0 24	3 57	1 26	24 24	1 26	0 6	1 34	14 21	2 5	18 6	0 20	22 9
S 9	7 23	17 6	3 15	9 16	0 14	3 29	1 27	24 27	1 26	0 4	1 34	14 23	2 5	18 6	0 20	22 9
M10	7 45	15 10	2 21	10 11	0 3	3 1	1 28	24 30	1 26	0 1	1 34	14 26	2 5	18 5	0 20	22 9
T 11	8 7	12 36	1 21	11 6	0n 8	2 32	1 29	24 32	1 26	0n 2	1 34	14 28	2 5	18 5	0 20	22 9
W12	8 29	9 29	0 18	12 0	0 19	2 4	1 29	24 35	1 26	0 5	1 34	14 30	2 5	18 4	0 20	22 9
T 13	8 51	5 57	0n47	12 53	0 30	1 35	1 30	24 37	1 26	0 7	1 34	14 32	2 5	18 4	0 20	22 9
F 14	9 13	2 6	1 51	13 44	0 41	1 7	1 31	24 39	1 26	0 10	1 34	14 34	2 4	18 3	0 20	22 9
S 15	9 35	1s54	2 51	14 34	0 53	0 38	1 31	24 41	1 26	0 13	1 34	14 37	2 4	18 3	0 20	22 9
S 16	9 56	5 54	3 43	15 23	1 4	0 9	1 32	24 43	1 26	0 15	1 34	14 39	2 4	18 2	0 20	22 9
M17	10 18	9 42	4 25	16 10	1 14	0n20	1 32	24 44	1 26	0 18	1 33	14 41	2 4	18 1	0 20	22 9
T 18	10 39	13 6	4 53	16 55	1 25	0 48	1 33	24 45	1 26	0 20	1 33	14 43	2 4	18 1	0 20	22 9
W19	11 0	15 52	5 6	17 37	1 35	1 17	1 33	24 47	1 26	0 23	1 33	14 45	2 4	18 0	0 20	22 9
T 20	11 20	17 49	5 2	18 18	1 45	1 46	1 33	24 48	1 26	0 25	1 33	14 48	2 4	18 0	0 20	22 9
F 21	11 41	18 44	4 40	18 56	1 54	2 15	1 34	24 49	1 25	0 27	1 33	14 50	2 4	17 59	0 20	22 9
S 22	12 1	18 33	4 2	19 31	2 3	2 43	1 34	24 49	1 25	0 30	1 33	14 52	2 4	17 59	0 20	22 9
S 23	12 21	17 13	3 9	20 4	2 11	3 12	1 34	24 50	1 25	0 32	1 33	14 54	2 3	17 58	0 20	22 9
M24	12 41	14 49	2 4	20 35	2 18	3 41	1 34	24 50	1 25	0 34	1 32	14 57	2 3	17 57	0 20	22 9
T 25	13 1	11 31	0 51	21 2	2 24	4 9	1 34	24 50	1 25	0 36	1 32	14 59	2 3	17 57	0 20	22 9
W26	13 21	7 32	0s25	21 28	2 30	4 38	1 34	24 50	1 25	0 38	1 32	15 1	2 3	17 56	0 20	22 9
T 27	13 40	3 7	1 39	21 51	2 35	5 6	1 33	24 50	1 25	0 40	1 32	15 3	2 3	17 56	0 20	22 9
F 28	13 59	1n28	2 47	22 11	2 38	5 34	1 33	24 50	1 25	0 42	1 32	15 5	2 3	17 55	0 20	22 8
S 29	14 18	5 55	3 44	22 28	2 41	6 3	1 33	24 49	1 25	0 44	1 32	15 8	2 3	17 54	0 20	22 8
S 30	14n37	10n 0	4s27	22n44	2n43	6n31	1s32	24n48	1n25	0n46	1n31	15n10	2s 3	17s54	0n20	22s 8

Julian Day Number = 2505325.5, Delta T = 119.79 sec
 Ecliptic obliquity = 23°25'05, Nutation = - 0°00'07, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°47'52, Lahiri = 25°54'52

ASTRODIENST EPHEMERIS for the year 2147

geocentric

MAY 2147

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	14 34 33	10 ⁸ 22'39	21 ⁸ 48	0 ^{II} 40	21 ^V 33	3 ^{III} 13	1°R32	17 ⁸ 57	21°R48	29°R32	17 ^{II} 48	6°R36	5 ^{III} 35	18 ^{II} 4	21°R52	M 1
T 2	14 38 29	11°21'00	5 ^{II} 8	1°30	22°47	3°50	1 ^{II} 27	18°5	21 ^{III} 45	29 ^{II} 31	17°49	6 ^{III} 25	5°32	18°11	21 ^{II} 48	T 2
W 3	14 42 26	12°19'18	18°7	2°16	24°1	4°27	1°23	18°13	21°43	29°30	17°50	6°14	5°28	18°18	21°44	W 3
T 4	14 46 22	13°17'35	0 ^{III} 47	2°56	25°14	5°4	1°18	18°20	21°41	29°30	17°51	6°6	5°25	18°24	21°39	T 4
F 5	14 50 19	14°15'50	13°8	3°31	26°28	5°41	1°14	18°28	21°38	29°29	17°53	5°59	5°22	18°31	21°35	F 5
S 6	14 54 16	15°14'03	25°14	4°0	27°41	6°18	1°10	18°36	21°36	29°28	17°54	5°55	5°19	18°38	21°31	S 6
S 7	14 58 12	16°12'14	7 ^{II} 9	4°24	28°55	6°55	1°6	18°44	21°33	29°26	17°55	5°53	5°16	18°44	21°27	S 7
M 8	15 2 9	17°10'22	18°59	4°43	0 ^{II} 8	7°32	1°3	18°51	21°30	29°25	17°56	5°D53	5°12	18°51	21°23	M 8
T 9	15 6 5	18°8'29	0 ^{III} 48	4°56	1°22	8°8	0°59	18°59	21°28	29°24	17°57	5°R53	5°9	18°58	21°20	T 9
W10	15 10 2	19°6'34	12°42	5°4	2°36	8°45	0°56	19°7	21°25	29°23	17°59	5°53	5°6	19°4	21°16	W10
T11	15 13 58	20°4'37	24°46	5°R7	3°49	9°22	0°53	19°14	21°23	29°22	18°0	5°51	5°3	19°11	21°12	T11
F12	15 17 55	21°2'38	7 ^{II} 4	5°4	5°3	9°59	0°50	19°22	21°20	29°21	18°1	5°48	5°0	19°18	21°8	F12
S13	15 21 51	22°0'38	19°41	4°57	6°16	10°36	0°47	19°30	21°18	29°20	18°2	5°41	4°57	19°24	21°5	S13
S14	15 25 48	22°58'35	2 ^{III} 38	4°45	7°30	11°13	0°45	19°38	21°15	29°18	18°4	5°33	4°53	19°31	21°1	S14
M15	15 29 44	23°56'31	15°56	4°29	8°43	11°50	0°42	19°45	21°13	29°17	18°5	5°22	4°50	19°38	20°58	M15
T16	15 33 41	24°54'26	29°32	4°9	9°57	12°27	0°40	19°53	21°10	29°16	18°6	5°10	4°47	19°44	20°54	T16
W17	15 37 38	25°52'19	13 ^{II} 25	3°45	11°10	13°4	0°38	20°1	21°8	29°15	18°7	4°58	4°44	19°51	20°51	W17
T18	15 41 34	26°50'10	27°30	3°18	12°24	13°41	0°36	20°8	21°5	29°13	18°9	4°48	4°41	19°58	20°48	T18
F19	15 45 31	27°48'00	11 ^{III} 41	2°48	13°37	14°18	0°34	20°16	21°3	29°12	18°10	4°40	4°37	20°4	20°45	F19
S20	15 49 27	28°45'49	25°56	2°16	14°51	14°55	0°33	20°24	21°0	29°11	18°11	4°34	4°34	20°11	20°42	S20
S21	15 53 24	29°43'37	10 ^{III} 10	1°43	16°4	15°32	0°31	20°32	20°58	29°9	18°13	4°32	4°31	20°17	20°39	S21
M22	15 57 20	0 ^{II} 41'24	24°20	1°9	17°18	16°9	0°30	20°39	20°55	29°8	18°14	4°31	4°28	20°24	20°36	M22
T23	16 1 17	1°39'10	8 ^{II} 26	0°34	18°32	16°46	0°29	20°47	20°53	29°7	18°15	4°31	4°25	20°31	20°33	T23
W24	16 5 14	2°36'54	22°27	29 ^{II} 59	19°45	17°23	0°28	20°54	20°50	29°5	18°17	4°30	4°22	20°37	20°31	W24
T25	16 9 10	3°34'37	6 ^{III} 21	29°25	20°59	18°0	0°28	21°2	20°48	29°4	18°18	4°28	4°18	20°44	20°28	T25
F26	16 13 7	4°32'20	20°9	28°53	22°12	18°37	0°27	21°10	20°45	29°3	18°19	4°23	4°15	20°51	20°26	F26
S27	16 17 3	5°30'01	3 ^{II} 48	28°23	23°26	19°14	0°27	21°17	20°43	29°1	18°21	4°15	4°12	20°57	20°23	S27
S28	16 21 0	6°27'41	17°17	27°55	24°39	19°51	0°D27	21°25	20°41	29°0	18°22	4°5	4°9	21°4	20°21	S28
M29	16 24 56	7°25'21	0 ^{II} 34	27°30	25°53	20°28	0°27	21°32	20°38	28°58	18°23	3°53	4°6	21°11	20°19	M29
T30	16 28 53	8°22'59	13°36	27°8	27°6	21°5	0°27	21°40	20°36	28°57	18°25	3°40	4°3	21°17	20°17	T30
W31	16 32 49	9 ^{II} 20'35	26 ^{II} 22	26 ^{II} 50	28 ^{II} 20	21 ^{II} 42	0°28	21 ^{II} 47	20 ^{III} 34	28 ^{II} 55	18 ^{II} 26	3 ^{III} 28	3 ^{III} 59	21 ^{II} 24	20 ^{II} 15	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	14n55	13n28	4s54	22n56	2n44	6n59	1s32	24n48	1n25	0n47	1n31	15n12	2s3	17s53	0n20	22s8
T 2	15 13	16 9	5 3	23 7	2 43	7 27	1 31	24 46	1 25	0 49	1 31	15 14	2 3	17 52	0 20	22 8
W 3	15 31	17 57	4 57	23 14	2 42	7 54	1 31	24 45	1 25	0 51	1 31	15 16	2 3	17 52	0 20	22 8
T 4	15 49	18 49	4 36	23 20	2 39	8 22	1 30	24 44	1 25	0 52	1 31	15 18	2 3	17 51	0 20	22 8
F 5	16 6	18 45	4 3	23 23	2 36	8 49	1 29	24 42	1 25	0 54	1 31	15 21	2 3	17 51	0 20	22 8
S 6	16 23	17 49	3 19	23 24	2 31	9 16	1 28	24 40	1 24	0 55	1 30	15 23	2 3	17 50	0 20	22 8
S 7	16 40	16 6	2 27	23 23	2 25	9 43	1 27	24 38	1 24	0 56	1 30	15 25	2 3	17 49	0 20	22 8
M 8	16 57	13 43	1 29	23 19	2 18	10 10	1 26	24 36	1 24	0 58	1 30	15 27	2 3	17 49	0 20	22 8
T 9	17 13	10 46	0 27	23 13	2 10	10 36	1 25	24 34	1 24	0 59	1 30	15 29	2 2	17 48	0 20	22 8
W10	17 29	7 21	0n36	23 6	2 0	11 2	1 24	24 32	1 24	1 0	1 30	15 31	2 2	17 47	0 19	22 8
T11	17 45	3 35	1 39	22 56	1 50	11 28	1 23	24 29	1 24	1 1	1 29	15 33	2 2	17 47	0 19	22 8
F12	18 0	0s23	2 38	22 44	1 38	11 54	1 22	24 26	1 24	1 2	1 29	15 36	2 2	17 46	0 19	22 8
S13	18 15	4 27	3 30	22 30	1 25	12 20	1 21	24 23	1 24	1 3	1 29	15 38	2 2	17 45	0 19	22 8
S14	18 30	8 24	4 13	22 14	1 11	12 45	1 20	24 20	1 24	1 4	1 29	15 40	2 2	17 45	0 19	22 8
M15	18 44	12 3	4 44	21 57	0 57	13 10	1 18	24 17	1 23	1 4	1 28	15 42	2 2	17 44	0 19	22 8
T16	18 59	15 9	5 0	21 38	0 41	13 34	1 17	24 13	1 23	1 5	1 28	15 44	2 2	17 43	0 19	22 8
W17	19 12	17 28	4 58	21 18	0 25	13 58	1 15	24 9	1 23	1 6	1 28	15 46	2 2	17 43	0 19	22 8
T18	19 26	18 46	4 38	20 56	0 8	14 22	1 14	24 6	1 23	1 6	1 28	15 48	2 2	17 42	0 19	22 8
F19	19 39	18 54	4 1	20 33	0s9	14 46	1 12	24 2	1 23	1 7	1 28	15 50	2 2	17 41	0 19	22 8
S20	19 52	17 51	3 9	20 10	0 26	15 9	1 11	23 57	1 23	1 7	1 27	15 52	2 2	17 41	0 19	22 8
S21	20 4	15 40	2 5	19 46	0 44	15 32	1 9	23 53	1 23	1 7	1 27	15 54	2 2	17 40	0 19	22 8
M22	20 17	12 33	0 54	19 22	1 2	15 54	1 7	23 48	1 22	1 8	1 27	15 56	2 2	17 40	0 19	22 8
T23	20 28	8 43	0s21	18 58	1 19	16 16	1 6	23 44	1 22	1 8	1 27	15 58	2 2	17 39	0 19	22 8
W24	20 40	4 26	1 33	18 34	1 36	16 38	1 4	23 39	1 22	1 8	1 26	16 0	2 2	17 38	0 19	22 8
T25	20 51	0n4	2 40	18 11	1 53	16 59	1 2	23 34	1 22	1 8	1 26	16 2	2 2	17 38	0 19	22 8
F26	21 2	4 32	3 36	17 48	2 8	17 20	1 0	23 29	1 22	1 8	1 26	16 4	2 2	17 37	0 19	22 8
S27	21 12	8 42	4 20	17 27	2 23	17 40	0 58	23 23	1 22	1 8	1 26	16 6	2 2	17 36	0 19	22 8
S28	21 22	12 22	4 48	17 7	2 38	18 0	0 56	23 18	1 22	1 8	1 25	16 8	2 2	17 36	0 19	22 8
M29	21 32	15 21	5 0	16 48	2 51	18 20	0 54	23 12	1 21	1 7	1 25	16 10	2 2	17 35	0 19	22 8
T30	21 41	17 31	4 56	16 32	3 3	18 39	0 52	23 6	1 21	1 7	1 25	16 12	2 2	17 35	0 19	22 8
W31	21n50	18n45	4s37	16n17	3s14	18n57	0s50	23n0	1n21	1n7	1n25	16n14	2s2	17s34	0n19	22s8

Julian Day Number = 2505355.5, Delta T = 119.85 sec
 Ecliptic obliquity = 23°25'04, Nutation = - 0°00'09, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°47'56, Lahiri = 25°54'57

ASTRODIENST EPHEMERIS for the year 2147

geocentric

JUNE 2147

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 36 46	10 ¹¹ 18'11	8 ⁵⁵ 53	26°R35	29 ⁸ 34	22 ⁵ 19	0 ² 29	21 ⁸ 55	20°R31	28°R54	18 ¹¹ 28	3°R17	3 ¹¹ 56	21 ¹ 231	20°R13	T 1
F 2	16 40 43	11°15'45	21° 8	26 ⁸ 25	0 ¹¹ 47	22°56	0°29	22° 2	20 ¹¹ 29	28 ² 52	18°29	3 ¹¹ 9	3°53	21°37	20 ¹¹ 11	F 2
S 3	16 44 39	12°13'18	3 ¹¹ 11	26°19	2° 1	23°33	0°30	22°10	20°27	28°51	18°30	3° 3	3°50	21°44	20° 9	S 3
S 4	16 48 36	13°10'50	15° 5	26°D17	3°14	24°10	0°32	22°17	20°24	28°49	18°32	3° 0	3°47	21°51	20° 8	S 4
M 5	16 52 32	14° 8'21	26°53	26°20	4°28	24°47	0°33	22°25	20°22	28°48	18°33	2°59	3°43	21°57	20° 6	M 5
T 6	16 56 29	15° 5'50	8 ¹¹ 42	26°27	5°41	25°24	0°34	22°32	20°20	28°46	18°34	2°59	3°40	22° 4	20° 5	T 6
W 7	17 0 25	16° 3'18	20°35	26°39	6°55	26° 1	0°36	22°39	20°18	28°44	18°36	2°59	3°37	22°10	20° 4	W 7
T 8	17 4 22	17° 0'44	2 ¹¹ 40	26°55	8° 9	26°38	0°38	22°47	20°15	28°43	18°37	2°58	3°34	22°17	20° 3	T 8
F 9	17 8 18	17°58'10	15° 1	27°16	9°22	27°15	0°40	22°54	20°13	28°41	18°39	2°55	3°31	22°24	20° 2	F 9
S 10	17 12 15	18°55'34	27°42	27°41	10°36	27°53	0°42	23° 1	20°11	28°40	18°40	2°50	3°28	22°30	20° 1	S 10
S 11	17 16 12	19°52'57	10 ¹¹ 46	28°10	11°49	28°30	0°45	23° 8	20° 9	28°38	18°41	2°42	3°24	22°37	20° 0	S 11
M12	17 20 8	20°50'20	24°16	28°43	13° 3	29° 7	0°47	23°16	20° 7	28°36	18°43	2°33	3°21	22°44	19°59	M12
T 13	17 24 5	21°47'41	8 ¹¹ 9	29°21	14°16	29°44	0°50	23°23	20° 5	28°35	18°44	2°22	3°18	22°50	19°59	T 13
W14	17 28 1	22°45'01	22°23	0 ¹¹ 3	15°30	0 ¹¹ 21	0°53	23°30	20° 3	28°33	18°46	2°11	3°15	22°57	19°58	W14
T 15	17 31 58	23°42'21	6 ¹¹ 52	0°49	16°44	0°58	0°56	23°37	20° 1	28°32	18°47	2° 2	3°12	23° 4	19°58	T 15
F 16	17 35 54	24°39'41	21°29	1°38	17°57	1°35	0°59	23°44	19°59	28°30	18°48	1°55	3° 9	23°10	19°57	F 16
S 17	17 39 51	25°36'59	6 ¹¹ 7	2°32	19°11	2°13	1° 3	23°51	19°57	28°28	18°50	1°50	3° 5	23°17	19°57	S 17
S 18	17 43 47	26°34'17	20°40	3°29	20°24	2°50	1° 6	23°58	19°55	28°27	18°51	1°48	3° 2	23°24	19°D57	S 18
M19	17 47 44	27°31'35	5 ¹¹ 5	4°30	21°38	3°27	1°10	24° 5	19°54	28°25	18°52	1°D47	2°59	23°30	19°57	M19
T 20	17 51 41	28°28'52	19°17	5°34	22°52	4° 4	1°14	24°12	19°52	28°24	18°54	1°48	2°56	23°37	19°57	T 20
W21	17 55 37	29°26'09	3°17	6°42	24° 5	4°41	1°18	24°18	19°50	28°22	18°55	1°R48	2°53	23°44	19°58	W21
T 22	17 59 34	0 ¹¹ 23'26	17° 1	7°54	25°19	5°18	1°22	24°25	19°48	28°20	18°57	1°47	2°49	23°50	19°58	T 22
F 23	18 3 30	1°20'43	0 ¹¹ 34	9° 9	26°32	5°56	1°27	24°32	19°47	28°19	18°58	1°43	2°46	23°57	19°59	F 23
S 24	18 7 27	2°17'59	13°53	10°28	27°46	6°33	1°31	24°39	19°45	28°17	18°59	1°38	2°43	24° 3	19°59	S 24
S 25	18 11 23	3°15'16	27° 0	11°49	29° 0	7°10	1°36	24°45	19°43	28°15	19° 1	1°30	2°40	24°10	20° 0	S 25
M26	18 15 20	4°12'32	9 ¹¹ 55	13°15	0 ¹¹ 13	7°47	1°41	24°52	19°42	28°14	19° 2	1°20	2°37	24°17	20° 1	M26
T 27	18 19 16	5° 9'47	22°37	14°43	1°27	8°25	1°46	24°58	19°40	28°12	19° 3	1°10	2°34	24°23	20° 2	T 27
W28	18 23 13	6° 7'03	5 ¹¹ 6	16°15	2°41	9° 2	1°51	25° 5	19°39	28°11	19° 5	1° 1	2°30	24°30	20° 3	W28
T 29	18 27 10	7° 4'18	17°24	17°50	3°54	9°39	1°56	25°11	19°37	28° 9	19° 6	0°52	2°27	24°37	20° 4	T 29
F 30	18 31 6	8 ¹¹ 1'33	29°30	19 ¹¹ 28	5 ¹¹ 8	10 ¹¹ 16	2 ¹¹ 2	25°18	19 ¹¹ 36	28 ² 7	19 ¹¹ 7	0 ¹¹ 46	2 ¹¹ 24	24 ¹¹ 43	20 ¹¹ 5	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	21n58	19n 3	4s 5	16n 4	3s24	19n15	0s48	22n54	1n21	1n 6	1n24	16n16	2s 2	17s33	0n19	22s 8	1n17	13n27	9s30	10n18	10n 3	13n16	8s33	0s42	
F 2	22 7	18 25	3 22	15 53	3 33	19 33	0 46	22 48	1 21	1 6	1 24	16 17	2 2	17 33	0 19	22 8	1 17	13 28	9 30	10 21	10 5	13 15	8 32	0 42	
S 3	22 14	16 59	2 31	15 45	3 40	19 50	0 44	22 41	1 21	1 5	1 24	16 19	2 2	17 32	0 19	22 8	1 17	13 28	9 30	10 23	10 6	13 14	8 31	0 42	
S 4	22 22	14 48	1 34	15 38	3 46	20 6	0 42	22 35	1 20	1 4	1 24	16 21	2 2	17 32	0 19	22 8	1 17	13 28	9 29	10 24	10 7	13 12	8 30	0 41	
M 5	22 29	12 2	0 32	15 34	3 52	20 22	0 40	22 28	1 20	1 3	1 23	16 23	2 2	17 31	0 19	22 8	1 17	13 28	9 29	10 24	10 8	13 11	8 29	0 41	
T 6	22 35	8 46	0n30	15 31	3 56	20 37	0 37	22 21	1 20	1 3	1 23	16 25	2 2	17 30	0 19	22 8	1 17	13 28	9 29	10 24	10 9	13 10	8 28	0 40	
W 7	22 41	5 8	1 32	15 31	3 58	20 52	0 35	22 14	1 20	1 2	1 23	16 27	2 2	17 30	0 19	22 8	1 17	13 28	9 29	10 24	10 10	13 8	8 27	0 40	
T 8	22 47	1 15	2 31	15 33	4 0	21 6	0 33	22 7	1 20	1 1	1 23	16 28	2 3	17 29	0 19	22 8	1 17	13 29	9 29	10 25	10 11	13 7	8 26	0 39	
F 9	22 52	2s46	3 24	15 37	4 1	21 20	0 31	21 59	1 19	1 0	1 22	16 30	2 3	17 29	0 19	22 7	1 17	13 29	9 29	10 26	10 13	13 6	8 25	0 39	
S 10	22 57	6 47	4 8	15 43	4 1	21 33	0 28	21 52	1 19	0 59	1 22	16 32	2 3	17 28	0 19	22 7	1 17	13 29	9 29	10 27	10 14	13 4	8 25	0 39	
S 11	23 2	10 35	4 41	15 50	3 59	21 45	0 26	21 44	1 19	0 57	1 22	16 34	2 3	17 28	0 19	22 7	1 17	13 29	9 29	10 30	10 15	13 3	8 24	0 38	
M12	23 6	13 59	4 59	16 0	3 57	21 57	0 24	21 36	1 19	0 56	1 22	16 35	2 3	17 27	0 19	22 7	1 17	13 29	9 29	10 34	10 16	13 2	8 23	0 38	
T 13	23 10	16 42	5 1	16 11	3 54	22 8	0 21	21 28	1 19	0 55	1 22	16 37	2 3	17 27	0 19	22 7	1 17	13 29	9 29	10 37	10 17	13 0	8 23	0 37	
W14	23 13	18 28	4 44	16 23	3 50	22 19	0 19	21 20	1 19	0 53	1 21	16 39	2 3	17 26	0 19	22 7	1 17	13 29	9 29	10 41	10 18	12 59	8 22	0 37	
T 15	23 16	19 6	4 9	16 37	3 46	22 29	0 17	21 12	1 18	0 52	1 21	16 41	2 3	17 26	0 19	22 7	1 17	13 30	9 29	10 44	10 19	12 58	8 22	0 36	
F 16	23 19	18 27	3 17	16 52	3 40	22 38	0 14	21 3	1 18	0 51	1 21	16 42	2 3	17 25	0 19	22 7	1 17	13 30	9 29	10 47	10 21	12 56	8 21	0 36	
S 17	23 21	16 35	2 12	17 9	3 34	22 47	0 12	20 55	1 18	0 49	1 21	16 44	2 3	17 25	0 19	22 7	1 17	13 30	9 29	10 49	10 22	12 55	8 21	0 36	
S 18	23 22	13 39	0 59	17 26	3 27	22 55	0 9	20 46	1 18	0 47	1 20	16 45	2 3	17 24	0 19	22 7	1 17	13 30	9 29	10 50	10 23	12 54	8 20	0 35	
M19	23 24	9 55	0s18	17 45	3 20	23 2	0 7	20 37	1 17	0 46	1 20	16 47	2 3	17 24	0 19	22 7	1 17	13 30	9 29	10 50	10 24	12 52	8 20	0 35	
T 20	23 25	5 39	1 32	18 4	3 12	23 9	0 5	20 28	1 17	0 44	1 20	16 49	2 3	17 23	0 19	22 7	1 17	13 30	9 29	10 50	10 25	12 51	8 20	0 34	
W21	23 25	1 9	2 40	18 24	3 3	23 15	0 2	20 19	1 17	0 42	1 20	16 50	2 3	17 23	0 19	22 7	1 17	13 30	9 29	10 50	10 26	12 50	8 19	0 34	
T 22	23 25	3n20	3 37	18 45	2 54	23 20	0n 0	20 10	1 17	0 40	1 19	16 52	2 3	17 22	0 19	22 7	1 17	13 30	9 29	10 50	10 27	12 48	8 19	0 34	
F 23	23 25	7 34	4 21	19 6	2 44	23 25	0 3	20 1	1 17	0 38	1 19	16 53	2 3	17 22	0 19	22 7	1 17	13 30	9 29	10 51	10 29	12 47	8 19	0 33	
S 24	23 24	11 22	4 51	19 27	2 34	23 29	0 5	19 51	1 16	0 36	1 19	16 55	2 4	17 21	0 19	22 7	1 17	13 31	9 29	10 53	10 30	12 45	8 19	0 33	
S 25	23 23	14 32	5 4	19 49	2 24	23 32	0 7	19 41	1 16	0 34	1 19	16 56	2 4	17 21	0 19	22 7	1 17	13 31	9 29	10 56	10 31	12 44	8 19	0 32	
M26	23 21	16 57	5 2	20 10	2 13	23 35	0 10	19 32	1 16	0 32	1 18	16 58	2 4	17 21	0 19	22 7	1 17	13 31	9 29	10 59	10 32	12 43	8 19	0 32	
T 27	23 19	18 29	4 44	20 32	2 2	23 37	0 12	19 22	1 16	0 30	1 18	16 59	2 4	17 20	0 19	22 7	1 17	13 31	9 29	11 3	10 33	12 41	8 19	0 31	
W28	23 17	19 6	4 13	20 53	1 50	23 38	0 14	19 12	1 15	0 27	1 18	17 1	2 4	17 20	0 19	22 7	1 17	13 31	9 29	11 6	10 34	12 40	8 19	0 31	
T 29	23 14	18 48	3 31	21 13	1 39	23 38	0 17	19 2	1 15	0 25	1 18	17 2	2 4	17 19	0 19	22 7	1 17	13 31	9 29	11 9	10 35	12 39	8 19	0 31	
F 30	23n10	17n38	2s40	21n34	1s27	23n38	0n19	18n51	1n15	0n23	1n18	17n 4	2s 4	17s19	0n19	22s 7	1n17	13n31	9s29	11n12	10n37	12n37	8s19	0s30	

ASTRODIENST EPHEMERIS for the year 2147
geocentric

JULY 2147

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	18 35 3	8 ⁵⁸ 48	11 ⁰² 27	21 ^{II} 9	6 ²² 22	10 ⁰² 54	2 ²⁵ 7	25 ³⁸ 24	19 ⁰ R35	28 ⁰ R 6	19 ^{II} 9	0 ⁰ R42	2 ⁰⁰ 21	24 ⁰² 50	20 ²⁵ 7	S 1
S 2	18 38 59	9 ⁵⁶ 02	23 ⁰ 17	22 ⁰ 54	7 ³⁶	11 ³¹	2 ¹³	25 ³⁰	19 ^{III} 33	28 ²⁷ 4	19 ⁰ 10	0 ⁰⁰ 40	2 ⁰ 18	24 ⁵⁷	20 ⁰ 8	S 2
M 3	18 42 56	10 ⁵³ 15	5 ⁰⁰ 3	24 ⁴¹	8 ⁴⁹	12 ⁰ 8	2 ¹⁹	25 ³⁷	19 ³²	28 ⁰ 3	19 ⁰ 11	0 ⁰ D40	2 ⁰ 15	25 ⁰ 3	20 ¹⁰	M 3
T 4	18 46 52	11 ⁵⁰ 29	16 ⁵¹	26 ³²	10 ⁰ 3	12 ⁴⁶	2 ²⁵	25 ⁴³	19 ³¹	28 ⁰ 1	19 ⁰ 13	0 ⁰ 40	2 ⁰ 11	25 ¹⁰	20 ¹²	T 4
W 5	18 50 49	12 ⁴⁷ 42	28 ⁴⁴	28 ²⁵	11 ¹⁷	13 ²³	2 ³¹	25 ⁴⁹	19 ³⁰	28 ⁰ 0	19 ⁰ 14	0 ⁴²	2 ⁰ 8	25 ¹⁷	20 ¹⁴	W 5
T 6	18 54 45	13 ⁴⁴ 54	10 ²⁴ 48	0 ²⁰ 20	12 ³⁰	14 ⁰ 0	2 ³⁸	25 ⁵⁵	19 ²⁸	27 ⁵⁸	19 ⁰ 15	0 ⁰ R43	2 ⁰ 5	25 ²³	20 ¹⁶	T 6
F 7	18 58 42	14 ⁴² 07	23 ⁰ 8	2 ¹⁹	13 ⁴⁴	14 ³⁸	2 ⁴⁴	26 ⁰ 1	19 ²⁷	27 ⁵⁷	19 ⁰ 16	0 ⁴²	2 ⁰ 2	25 ³⁰	20 ¹⁸	F 7
S 8	19 2 39	15 ³⁹ 19	5 ⁰⁰ 48	4 ¹⁹	14 ⁵⁸	15 ¹⁵	2 ⁵¹	26 ⁰ 7	19 ²⁶	27 ⁵⁵	19 ⁰ 18	0 ⁴⁰	1 ⁵⁹	25 ³⁷	20 ²⁰	S 8
S 9	19 6 35	16 ³⁶ 30	18 ⁵³	6 ²²	16 ¹²	15 ⁵²	2 ⁵⁷	26 ¹³	19 ²⁵	27 ⁵³	19 ⁰ 19	0 ³⁶	1 ⁵⁵	25 ⁴³	20 ²²	S 9
M10	19 10 32	17 ³³ 42	2 ²⁷ 24	8 ²⁶	17 ²⁵	16 ³⁰	3 ⁰ 4	26 ¹⁹	19 ²⁴	27 ⁵²	19 ²⁰	0 ³¹	1 ⁵²	25 ⁵⁰	20 ²⁵	M10
T 11	19 14 28	18 ³⁰ 54	16 ²³	10 ³²	18 ³⁹	17 ⁰ 7	3 ¹¹	26 ²⁴	19 ²³	27 ⁵⁰	19 ²¹	0 ²⁵	1 ⁴⁹	25 ⁵⁶	20 ²⁷	T 11
W12	19 18 25	19 ²⁸ 05	0 ³⁴ 47	12 ³⁹	19 ⁵³	17 ⁴⁵	3 ¹⁸	26 ³⁰	19 ²³	27 ⁴⁹	19 ²³	0 ¹⁹	1 ⁴⁶	26 ⁰ 3	20 ³⁰	W12
T 13	19 22 21	20 ²⁵ 17	15 ³⁰	14 ⁴⁸	21 ⁰ 7	18 ²²	3 ²⁶	26 ³⁶	19 ²²	27 ⁴⁸	19 ²⁴	0 ¹³	1 ⁴³	26 ¹⁰	20 ³²	T 13
F 14	19 26 18	21 ²² 28	0 ²⁶ 26	16 ⁵⁷	22 ²¹	18 ⁵⁹	3 ³³	26 ⁴¹	19 ²¹	27 ⁴⁶	19 ²⁵	0 ⁰ 9	1 ⁴⁰	26 ¹⁶	20 ³⁵	F 14
S 15	19 30 14	22 ⁰ 1940	15 ²⁶	19 ⁰ 6	23 ³⁴	19 ³⁷	3 ⁴¹	26 ⁴⁷	19 ²⁰	27 ⁴⁵	19 ²⁶	0 ⁰ 7	1 ³⁶	26 ²³	20 ³⁸	S 15
S 16	19 34 11	23 ⁰ 16'52	0 ²¹ 21	21 ⁰ 15	24 ⁴⁸	20 ¹⁴	3 ⁴⁸	26 ⁵²	19 ²⁰	27 ⁴³	19 ²⁸	0 ⁰ D 6	1 ³³	26 ³⁰	20 ⁴¹	S 16
M17	19 38 8	24 ⁰ 14'05	15 ⁰ 5	23 ²⁵	26 ⁰ 2	20 ⁵²	3 ⁵⁶	26 ⁵⁸	19 ¹⁹	27 ⁴²	19 ²⁹	0 ⁰ 6	1 ³⁰	26 ³⁶	20 ⁴⁴	M17
T 18	19 42 4	25 ⁰ 11'18	29 ³²	25 ³³	27 ¹⁶	21 ²⁹	4 ⁰ 4	27 ⁰ 3	19 ¹⁸	27 ⁴⁰	19 ³⁰	0 ⁰ 8	1 ²⁷	26 ⁴³	20 ⁴⁸	T 18
W19	19 46 1	26 ⁰ 8'32	13 ²⁷ 39	27 ⁴²	28 ³⁰	22 ⁰ 7	4 ¹²	27 ⁰ 8	19 ¹⁸	27 ³⁹	19 ³¹	0 ⁰ 9	1 ²⁴	26 ⁵⁰	20 ⁵¹	W19
T 20	19 49 57	27 ⁰ 5'46	27 ²⁶	29 ⁴⁹	29 ⁴³	22 ⁴⁴	4 ²⁰	27 ¹³	19 ¹⁸	27 ³⁸	19 ³²	0 ⁰ R10	1 ²¹	26 ⁵⁶	20 ⁵⁴	T 20
F 21	19 53 54	28 ⁰ 3'01	10 ²⁸ 54	1 ⁰² 55	0 ⁰² 57	23 ²²	4 ²⁸	27 ¹⁸	19 ¹⁷	27 ³⁶	19 ³³	0 ⁰ 9	1 ¹⁷	27 ⁰ 3	20 ⁵⁸	F 21
S 22	19 57 50	29 ⁰ 0'17	24 ⁰ 3	4 ⁰ 0	2 ¹¹	23 ⁵⁹	4 ³⁶	27 ²³	19 ¹⁷	27 ³⁵	19 ³⁴	0 ⁰ 7	1 ¹⁴	27 ¹⁰	21 ⁰ 2	S 22
S 23	20 1 47	29 ⁵⁷ 34	6 ⁰² 55	6 ⁰ 4	3 ²⁵	24 ³⁷	4 ⁴⁵	27 ²⁸	19 ¹⁶	27 ³⁴	19 ³⁶	0 ⁰ 3	1 ¹¹	27 ¹⁶	21 ⁰ 5	S 23
M24	20 5 43	0 ⁰² 54'51	19 ³²	8 ⁰ 6	4 ³⁹	25 ¹⁴	4 ⁵³	27 ³³	19 ¹⁶	27 ³²	19 ³⁷	29 ⁰² 59	1 ⁰ 8	27 ²³	21 ⁰ 9	M24
T 25	20 9 40	1 ⁵² 09	1 ⁵⁶ 57	10 ⁰ 7	5 ⁵³	25 ⁵²	5 ⁰ 2	27 ³⁸	19 ¹⁶	27 ³¹	19 ³⁸	29 ⁵⁴	1 ⁰ 5	27 ³⁰	21 ¹³	T 25
W26	20 13 37	2 ⁴⁹ 28	14 ¹¹	12 ⁰ 6	7 ⁰ 7	26 ²⁹	5 ¹¹	27 ⁴³	19 ¹⁶	27 ³⁰	19 ³⁹	29 ⁵⁰	1 ⁰ 1	27 ³⁶	21 ¹⁷	W26
T 27	20 17 33	3 ⁴⁶ 47	26 ¹⁵	14 ⁰ 4	8 ²¹	27 ⁰ 7	5 ²⁰	27 ⁴⁷	19 ¹⁶	27 ²⁹	19 ⁴⁰	29 ⁴⁶	0 ⁵⁸	27 ⁴³	21 ²¹	T 27
F 28	20 21 30	4 ⁴⁴ 07	8 ⁰² 12	16 ⁰ 0	9 ³⁵	27 ⁴⁵	5 ²⁹	27 ⁵²	19 ⁰ D16	27 ²⁷	19 ⁴¹	29 ⁴³	0 ⁵⁵	27 ⁴⁹	21 ²⁵	F 28
S 29	20 25 26	5 ⁴¹ 28	20 ⁰ 3	17 ⁵⁴	10 ⁴⁹	28 ²²	5 ³⁸	27 ⁵⁶	19 ¹⁶	27 ²⁶	19 ⁴²	29 ⁴²	0 ⁵²	27 ⁵⁶	21 ³⁰	S 29
S 30	20 29 23	6 ³⁸ 49	1 ⁰⁰ 50	19 ⁴⁶	12 ⁰ 3	29 ⁰ 0	5 ⁴⁷	28 ⁰ 0	19 ¹⁶	27 ²⁵	19 ⁴³	29 ⁰ D41	0 ⁴⁹	28 ⁰ 3	21 ³⁴	S 30
M31	20 33 19	7 ⁰² 36'11	13 ⁰⁰ 36	21 ⁰² 37	13 ⁰² 17	29 ⁰² 38	5 ⁵⁶	28 ⁰⁸ 5	19 ⁰⁰ 16	27 ²⁷ 24	19 ⁰⁰ 44	29 ⁰² 42	0 ⁰⁰ 46	28 ⁰² 9	21 ⁰² 39	M31

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
S 1	23n 7	15n42	1s42	21n53	1s15	23n37	0n21	18n41	1n15	0n20	1n17	17n 5	2s 4	17s19	0n19	22s 7	1n17	13n31	9s29	11n13	10n38	12n36	8s19	0s30	
S 2	23 3	13 7	0 40	22 11	1 3	23 36	0 24	18 30	1 15	0 18	1 17	17 7	2 4	17 18	0 19	22 7	1 17	13 31	9 29	11 14	10 39	12 34	8 19	0 29	
M 3	22 58	10 1	0n24	22 28	0 51	23 33	0 26	18 20	1 14	0 15	1 17	17 8	2 4	17 18	0 19	22 7	1 17	13 31	9 29	11 14	10 40	12 33	8 19	0 29	
T 4	22 53	6 31	1 27	22 44	0 38	23 30	0 28	18 9	1 14	0 13	1 17	17 9	2 4	17 18	0 19	22 7	1 17	13 31	9 29	11 13	10 41	12 32	8 20	0 29	
W 5	22 48	2 44	2 26	22 58	0 26	23 27	0 30	17 58	1 14	0 10	1 16	17 11	2 5	17 17	0 19	22 7	1 17	13 31	9 29	11 13	10 42	12 30	8 20	0 28	
T 6	22 43	1s12	3 20	23 10	0 15	23 22	0 33	17 47	1 14	0 7	1 16	17 12	2 5	17 17	0 19	22 7	1 17	13 32	9 29	11 13	10 43	12 29	8 20	0 28	
F 7	22 36	5 10	4 6	23 21	0 3	23 17	0 35	17 36	1 13	0 5	1 16	17 13	2 5	17 17	0 19	22 7	1 17	13 32	9 29	11 13	10 45	12 27	8 21	0 27	
S 8	22 30	9 1	4 41	23 29	0n 8	23 12	0 37	17 25	1 13	0 2	1 16	17 14	2 5	17 17	0 18	22 7	1 17	13 32	9 29	11 14	10 46	12 26	8 21	0 27	
S 9	22 23	12 33	5 3	23 35	0 19	23 5	0 39	17 13	1 13	0s 1	1 16	17 16	2 5	17 16	0 18	22 7	1 17	13 32	9 29	11 15	10 47	12 25	8 22	0 27	
M10	22 16	15 34	5 10	23 39	0 30	22 58	0 41	17 2	1 13	0 4	1 15	17 17	2 5	17 16	0 18	22 7	1 17	13 32	9 29	11 17	10 48	12 23	8 22	0 26	
T 11	22 8	17 47	4 58	23 40	0 40	22 50	0 43	16 50	1 12	0 7	1 15	17 18	2 5	17 16	0 18	22 7	1 17	13 32	9 29	11 19	10 49	12 22	8 23	0 26	
W12	22 0	18 57	4 28	23 38	0 49	22 42	0 45	16 39	1 12	0 10	1 15	17 19	2 5	17 16	0 18	22 7	1 17	13 32	9 30	11 21	10 50	12 20	8 24	0 26	
T 13	21 52	18 54	3 39	23 34	0 58	22 33	0 47	16 27	1 12	0 13	1 15	17 20	2 6	17 16	0 18	22 7	1 17	13 32	9 30	11 23	10 51	12 19	8 24	0 25	
F 14	21 43	17 31	2 35	23 27	1 6	22 23	0 49	16 15	1 12	0 16	1 15	17 22	2 6	17 15	0 18	22 7	1 17	13 32	9 30	11 25	10 52	12 18	8 25	0 25	
S 15	21 34	14 56	1 19	23 17	1 14	22 12	0 51	16 3	1 11	0 19	1 14	17 23	2 6	17 15	0 18	22 7	1 17	13 32	9 30	11 25	10 54	12 16	8 26	0 24	
S 16	21 25	11 22	0s 1	23 4	1 21	22 1	0 53	15 51	1 11	0 22	1 14	17 24	2 6	17 15	0 18	22 7	1 17	13 32	9 30	11 26	10 55	12 15	8 26	0 24	
M17	21 15	7 7	1 21	22 49	1 27	21 49	0 55	15 39	1 11	0 26	1 14	17 25	2 6	17 15	0 18	22 7	1 17	13 32	9 30	11 25	10 56	12 13	8 27	0 24	
T 18	21 5	2 32	2 34	22 31	1 32	21 37	0 57	15 26	1 10	0 29	1 14	17 26	2 6	17 15	0 18	22 7	1 17	13 32	9 30	11 25	10 57	12 12	8 28	0 23	
W19	20 54	2n 4	3 36	22 11	1 37	21 24	0 59	15 14	1 10	0 32	1 14	17 27	2 6	17 15	0 18	22 7	1 17	13 32	9 30	11 25	10 58	12 10	8 29	0 23	
T 20	20 43	6 27	4 24	21 48	1 40	21 10	1 0	15 2	1 10	0 36	1 13	17 28	2 7	17 15	0 18	22 7	1 17	13 32	9 30	11 24	10 59	12 9	8 30	0 22	
F 21	20 32	10 24	4 56	21 24	1 43	20 56	1 2	14 49	1 10	0 39	1 13	17 29	2 7	17 14	0 18	22 7	1 17	13 32	9 30	11 25	11 0	12 8	8 31	0 22	
S 22	20 20	13 44	5 11	20 57	1 46	20 41	1 4	14 36	1 9	0 43	1 13	17 30	2 7	17 14	0 18	22 7	1 17	13 32	9 30	11 25	11 2	12 6	8 32	0 22	
S 23	20 8	16 20	5 11	20 28	1 47	20 26	1 5	14 24	1 9	0 46	1 13	17 31	2 7	17 14	0 18	22 7	1 16	13 32	9 30	11 27	11 3	12 5	8 33	0 21	
M24	19 56	18 6	4 55	19 58	1 48	20 10	1 7	14 11	1 9	0 50	1 13	17 32	2 7	17 14	0 18	22 7	1 16	13 32	9 30	11 28	11 4	12 3	8 34	0 21	
T 25	19 44	18 58	4 26	19 26	1 48	19 53	1 8	13 58	1 9	0 53	1 13	17 33	2 7	17 14	0 18	22 7	1 16	13 32	9 31	11 30	11 5	12 2	8 35	0 21	
W26	19 31	18 56	3 45	18 52	1 47	19 36	1 10	13 45	1 8	0 57	1 12	17 34	2 7	17 14	0 18	22 7	1 16	13 32	9 31	11 31	11 6	12 0	8 36	0 20	
T 27	19 17	18 2	2 54	18 17	1 46	19 18	1 11	13 31	1 8	1 1	1 12	17 35	2 8	17 14	0 18	22 7	1 16	13 32	9 31	11 33	11 7	11 59	8 38	0 20	
F 28	19 4	16 20	1 56	17 41	1 44	19 0	1 12	13 18	1 8	1 4	1 12	17 35	2 8	17 14	0 18	22 7	1 16	13 32	9 31	11 34	11 8	11 57	8 39	0 20	
S 29	18 50	13 57	0 53	17 4	1 42	18 41	1 14	13 5	1 7	1 8	1 12	17 36	2 8	17 14	0 18	22 7	1 16	13 32	9 31	11 34	11 9	11 56	8 40	0 19	
S 30	18 36	11 0	0n12	16 26	1 39	18 22	1 15	12 52	1 7	1 12	1 12	17 37	2 8	17 14	0 18	22 7	1 16	13 32	9 31	11 34	11 11	11 55	8 42	0 19	
M31	18n21	7n37	1n16	15n47	1n35	18n 2	1n16	12n38	1n 7	1s16	1n12	17n38	2s 8	17s14	0n18	22s 7	1n16	13n32	9s31	11n34	11n12	11n53	8s43	0s18	

ASTRODIENST EPHEMERIS for the year 2147

geocentric

AUGUST 2147

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 37 16	8♂33'33	25♂25	23♂26	14♂31	0♂15	6♂6	28♂9	19♂16	27♂23	19♂45	29♂43	0♂42	28♂16	21♂43	T 1
W 2	20 41 12	9°30'56	7♂20	25°14	15°44	0°53	6°15	28°13	19°16	27♂22	19°46	29°45	0°39	28°23	21°48	W 2
T 3	20 45 9	10°28'19	19°24	27° 0	16°58	1°31	6°25	28°17	19°16	27°21	19°47	29°46	0°36	28°29	21°53	T 3
F 4	20 49 6	11°25'43	1♂43	28°44	18°12	2° 8	6°34	28°21	19°17	27°19	19°48	29°47	0°33	28°36	21°58	F 4
S 5	20 53 2	12°23'08	14°21	0♂26	19°26	2°46	6°44	28°25	19°17	27°18	19°49	29°R48	0°30	28°43	22° 2	S 5
S 6	20 56 59	13°20'33	27°22	2° 7	20°40	3°24	6°54	28°29	19°18	27°17	19°50	29°47	0°27	28°49	22° 8	S 6
M 7	21 0 55	14°17'59	10♂48	3°46	21°54	4° 2	7° 4	28°32	19°18	27°16	19°50	29°46	0°23	28°56	22°13	M 7
T 8	21 4 52	15°15'26	24°42	5°24	23° 8	4°40	7°14	28°36	19°19	27°15	19°51	29°44	0°20	29° 3	22°18	T 8
W 9	21 8 48	16°12'53	9♂3	7° 0	24°22	5°17	7°24	28°39	19°19	27°15	19°52	29°43	0°17	29° 9	22°23	W 9
T 10	21 12 45	17°10'21	23°47	8°34	25°36	5°55	7°34	28°43	19°20	27°14	19°53	29°41	0°14	29°16	22°29	T 10
F 11	21 16 41	18° 7'50	8♂48	10° 6	26°50	6°33	7°45	28°46	19°20	27°13	19°54	29°40	0°11	29°22	22°34	F 11
S 12	21 20 38	19° 5'20	23°59	11°37	28° 4	7°11	7°55	28°49	19°21	27°12	19°55	29°D40	0° 7	29°29	22°39	S 12
S 13	21 24 35	20° 2'52	9♂9	13° 6	29°18	7°49	8° 6	28°52	19°22	27°11	19°55	29°40	0° 4	29°36	22°45	S 13
M14	21 28 31	21° 0'24	24°10	14°34	0♂32	8°27	8°16	28°55	19°23	27°10	19°56	29°40	0° 1	29°42	22°51	M14
T 15	21 32 28	21°57'57	8♂53	16° 0	1°47	9° 5	8°27	28°58	19°24	27°10	19°57	29°41	29♂58	29°49	22°57	T 15
W16	21 36 24	22°55'32	23°14	17°24	3° 1	9°43	8°37	29° 1	19°25	27° 9	19°58	29°41	29°55	29°56	23° 2	W16
T 17	21 40 21	23°53'09	7♂11	18°47	4°15	10°20	8°48	29° 4	19°26	27° 8	19°58	29°42	29°52	0♂2	23° 8	T 17
F 18	21 44 17	24°50'47	20°41	20° 7	5°29	10°58	8°59	29° 7	19°27	27° 7	19°59	29°R42	29°48	0° 9	23°14	F 18
S 19	21 48 14	25°48'26	3♂49	21°26	6°43	11°36	9°10	29° 9	19°28	27° 7	20° 0	29°42	29°45	0°16	23°20	S 19
S 20	21 52 10	26°46'08	16°35	22°43	7°57	12°14	9°21	29°12	19°29	27° 6	20° 0	29°42	29°42	0°22	23°27	S 20
M21	21 56 7	27°43'50	29° 3	23°58	9°11	12°53	9°32	29°14	19°30	27° 5	20° 1	29°42	29°39	0°29	23°33	M21
T 22	22 0 4	28°41'35	11♂17	25°11	10°25	13°31	9°43	29°16	19°31	27° 5	20° 2	29°41	29°36	0°36	23°39	T 22
W23	22 4 0	29°39'20	23°20	26°23	11°39	14° 9	9°54	29°18	19°33	27° 4	20° 2	29°D41	29°32	0°42	23°45	W23
T 24	22 7 57	0♂37'08	5♂14	27°32	12°53	14°47	10° 6	29°20	19°34	27° 4	20° 3	29°41	29°29	0°49	23°52	T 24
F 25	22 11 53	1°34'56	17° 4	28°38	14° 7	15°25	10°17	29°22	19°35	27° 3	20° 3	29°42	29°26	0°55	23°58	F 25
S 26	22 15 50	2°32'47	28°51	29°43	15°21	16° 3	10°28	29°24	19°37	27° 3	20° 4	29°R42	29°23	1° 2	24° 5	S 26
S 27	22 19 46	3°30'38	10♂39	0♂45	16°35	16°41	10°40	29°26	19°38	27° 3	20° 4	29°42	29°20	1° 9	24°12	S 27
M28	22 23 43	4°28'31	22°28	1°44	17°49	17°19	10°51	29°27	19°40	27° 2	20° 5	29°41	29°17	1°15	24°18	M28
T 29	22 27 39	5°26'26	4♂21	2°41	19° 4	17°58	11° 3	29°29	19°41	27° 2	20° 5	29°41	29°13	1°22	24°25	T 29
W30	22 31 36	6°24'22	16°22	3°35	20°18	18°36	11°15	29°30	19°43	27° 1	20° 6	29°40	29°10	1°29	24°32	W30
T 31	22 35 32	7♂22'19	28♂32	4♂26	21♂32	19♂14	11♂26	29♂32	19♂45	27♂1	20♂6	29♂40	29♂7	1♂35	24♂39	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	18n 6	3n55	2n17	15n 8	1n31	17n42	1n17	12n25	1n 6	1s20	1n11	17n39	2s 8	17s14	0n18	22s 7
W 2	17 51	0 3	3 13	14 28	1 27	17 21	1 18	12 11	1 6	1 23	1 11	17 39	2 9	17 14	0 18	22 7
T 3	17 36	3s52	4 2	13 47	1 22	17 0	1 19	11 57	1 6	1 27	1 11	17 40	2 9	17 15	0 18	22 7
F 4	17 20	7 41	4 40	13 6	1 17	16 38	1 20	11 43	1 6	1 31	1 11	17 41	2 9	17 15	0 18	22 7
S 5	17 4	11 16	5 5	12 25	1 11	16 15	1 21	11 30	1 5	1 35	1 11	17 41	2 9	17 15	0 18	22 7
S 6	16 48	14 25	5 16	11 43	1 5	15 53	1 22	11 16	1 5	1 39	1 11	17 42	2 9	17 15	0 18	22 7
M 7	16 32	16 55	5 11	11 1	0 58	15 30	1 23	11 2	1 5	1 43	1 10	17 43	2 9	17 15	0 18	22 7
T 8	16 15	18 32	4 47	10 19	0 51	15 6	1 23	10 48	1 4	1 48	1 10	17 43	2 10	17 15	0 18	22 7
W 9	15 58	19 2	4 5	9 37	0 44	14 42	1 24	10 33	1 4	1 52	1 10	17 44	2 10	17 15	0 18	22 8
T 10	15 40	18 16	3 6	8 55	0 37	14 18	1 24	10 19	1 4	1 56	1 10	17 44	2 10	17 16	0 18	22 8
F 11	15 23	16 13	1 53	8 13	0 29	13 53	1 25	10 5	1 3	2 0	1 10	17 45	2 10	17 16	0 18	22 8
S 12	15 5	13 1	0 32	7 31	0 21	13 28	1 25	9 51	1 3	2 4	1 10	17 45	2 10	17 16	0 18	22 8
S 13	14 47	8 57	0s52	6 49	0 12	13 3	1 26	9 36	1 3	2 8	1 10	17 46	2 11	17 16	0 18	22 8
M14	14 29	4 20	2 12	6 8	0 4	12 37	1 26	9 22	1 2	2 13	1 9	17 46	2 11	17 17	0 18	22 8
T 15	14 10	0n26	3 21	5 27	0s 5	12 11	1 26	9 7	1 2	2 17	1 9	17 47	2 11	17 17	0 18	22 8
W16	13 52	9 16	4 16	4 46	0 14	11 44	1 26	8 53	1 2	2 21	1 9	17 47	2 11	17 17	0 18	22 8
T 17	13 33	5 3	4 54	4 5	0 23	11 17	1 27	8 38	1 1	2 26	1 9	17 48	2 11	17 17	0 17	22 8
F 18	13 14	12 51	5 14	3 25	0 32	10 50	1 27	8 23	1 1	2 30	1 9	17 48	2 11	17 18	0 17	22 8
S 19	12 54	15 42	5 17	2 46	0 41	10 23	1 27	8 8	1 1	2 35	1 9	17 48	2 12	17 18	0 17	22 8
S 20	12 35	17 42	5 4	2 7	0 51	9 55	1 27	7 54	1 0	2 39	1 9	17 49	2 12	17 18	0 17	22 8
M21	12 15	18 48	4 37	1 28	1 0	9 27	1 26	7 39	1 0	2 43	1 9	17 49	2 12	17 19	0 17	22 8
T 22	11 55	18 59	3 58	0 50	1 10	8 59	1 26	7 24	1 0	2 48	1 8	17 49	2 12	17 19	0 17	22 8
W23	11 35	18 18	3 9	0 13	1 20	8 31	1 26	7 9	0 59	2 52	1 8	17 50	2 12	17 19	0 17	22 8
T 24	11 15	16 48	2 12	0s23	1 30	8 2	1 26	6 54	0 59	2 57	1 8	17 50	2 13	17 20	0 17	22 8
F 25	10 54	14 36	1 10	0 59	1 40	7 33	1 25	6 39	0 59	3 2	1 8	17 50	2 13	17 20	0 17	22 8
S 26	10 33	11 47	0 5	1 34	1 49	7 4	1 25	6 24	0 58	3 6	1 8	17 50	2 13	17 21	0 17	22 8
S 27	10 13	8 30	1n 1	2 7	1 59	6 35	1 24	6 9	0 58	3 11	1 8	17 51	2 13	17 21	0 17	22 8
M28	9 52	4 53	2 3	2 40	2 9	6 5	1 23	5 53	0 58	3 15	1 8	17 51	2 13	17 21	0 17	22 8
T 29	9 31	1 2	3 1	3 12	2 19	5 36	1 23	5 38	0 57	3 20	1 8	17 51	2 14	17 22	0 17	22 8
W30	9 9	2s52	3 51	3 42	2 29	5 6	1 22	5 23	0 57	3 25	1 8	17 51	2 14	17 22	0 17	22 8
T 31	8n48	6s42	4n32	4s11	2s38	4n36	1n21	5n 8	0n57	3s29	1n 7	17n51	2s14	17s23	0n17	22s 8

Julian Day Number = 2505447.5, Delta T = 120.02 sec
 Ecliptic obliquity = 23°25'04, Nutation = - 0°00'07, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°48'09, Lahiri = 25°55'09

ASTRODIENST EPHEMERIS for the year 2147

geocentric

SEPTEMBER 2147

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 39 29	8 ^m 20'18	10 ^m 55	5 ^h 14	22 ^m 46	19 ^m 52	11 ^h 13	29 ^h 33	19 ^m 46	27°R 1	20 ^h 11	29°R38	29 ^h 04	1 ^m 42	24 ^h 46	F 1
S 2	22 43 26	9°18'18	23°34	5°59	24° 0	20°31	11°50	29°34	19°48	27 ^h 1	20° 7	29 ^h 37	29° 1	1°49	24°53	S 2
S 3	22 47 22	10°16'19	6 ^h 32	6°40	25°14	21° 9	12° 2	29°35	19°50	27° 0	20° 7	29°D37	28°58	1°55	25° 0	S 3
M 4	22 51 19	11°14'22	19°51	7°17	26°28	21°47	12°14	29°36	19°52	27° 0	20° 8	29°37	28°54	2° 2	25° 7	M 4
T 5	22 55 15	12°12'26	3 ^h 35	7°50	27°42	22°26	12°26	29°37	19°54	27° 0	20° 8	29°37	28°51	2° 9	25°14	T 5
W 6	22 59 12	13°10'31	17°44	8°18	28°56	23° 4	12°38	29°37	19°56	27° 0	20° 8	29°38	28°48	2°15	25°21	W 6
T 7	23 3 8	14° 8'38	2 ^h 16	8°42	0 ^h 10	23°43	12°50	29°38	19°58	27° 0	20° 9	29°39	28°45	2°22	25°29	T 7
F 8	23 7 5	15° 6'46	17° 8	9° 1	1°24	24°21	13° 2	29°38	20° 0	27° 0	20° 9	29°40	28°42	2°28	25°36	F 8
S 9	23 11 1	16° 4'56	2 ^h 13	9°15	2°39	24°59	13°14	29°39	20° 2	27°D 0	20° 9	29°R41	28°38	2°35	25°43	S 9
S 10	23 14 58	17° 3'08	17°24	9°23	3°53	25°38	13°26	29°39	20° 4	27° 0	20°10	29°40	28°35	2°42	25°51	S 10
M 11	23 18 55	18° 1'21	2 ^h 31	9°R25	5° 7	26°16	13°39	29°39	20° 6	27° 0	20°10	29°38	28°32	2°48	25°58	M 11
T 12	23 22 51	18°59'36	17°24	9°22	6°21	26°55	13°51	29°R39	20° 8	27° 0	20°10	29°36	28°29	2°55	26° 6	T 12
W 13	23 26 48	19°57'53	1 ^h 57	9°11	7°35	27°34	14° 3	29°39	20°11	27° 0	20°10	29°34	28°26	3° 2	26°13	W 13
T 14	23 30 44	20°56'12	16° 3	8°55	8°49	28°12	14°16	29°39	20°13	27° 0	20°10	29°31	28°23	3° 8	26°21	T 14
F 15	23 34 41	21°54'33	29°42	8°32	10° 3	28°51	14°28	29°38	20°15	27° 1	20°10	29°29	28°19	3°15	26°29	F 15
S 16	23 38 37	22°52'56	12 ^h 54	8° 2	11°17	29°29	14°41	29°38	20°18	27° 1	20°10	29°27	28°16	3°22	26°37	S 16
S 17	23 42 34	23°51'21	25°41	7°25	12°31	0 ^h 8	14°53	29°38	20°20	27° 1	20°11	29°D27	28°13	3°28	26°44	S 17
M 18	23 46 30	24°49'49	8 ^h 7	6°42	13°45	0°47	15° 6	29°37	20°22	27° 1	20°11	29°28	28°10	3°35	26°52	M 18
T 19	23 50 27	25°48'19	20°16	5°53	14°59	1°25	15°18	29°36	20°25	27° 2	20°11	29°29	28° 7	3°42	27° 0	T 19
W 20	23 54 24	26°46'50	2 ^h 13	4°59	16°13	2° 4	15°31	29°35	20°27	27° 2	20°R11	29°31	28° 4	3°48	27° 8	W 20
T 21	23 58 20	27°45'24	14° 3	4° 1	17°27	2°43	15°43	29°34	20°30	27° 2	20°11	29°32	28° 0	3°55	27°16	T 21
F 22	0 2 17	28°44'00	25°50	2°59	18°41	3°22	15°56	29°33	20°33	27° 3	20°11	29°R33	27°57	4° 2	27°24	F 22
S 23	0 6 13	29°42'38	7 ^h 37	1°55	19°55	4° 1	16° 9	29°32	20°35	27° 3	20°11	29°33	27°54	4° 8	27°32	S 23
S 24	0 10 10	0 ^h 41'18	19°27	0°51	21° 9	4°39	16°22	29°31	20°38	27° 4	20°10	29°31	27°51	4°15	27°40	S 24
M 25	0 14 6	1°40'00	1 ^h 23	29 ^m 47	22°23	5°18	16°34	29°30	20°41	27° 4	20°10	29°28	27°48	4°21	27°48	M 25
T 26	0 18 3	2°38'44	13°26	28°46	23°37	5°57	16°47	29°28	20°44	27° 5	20°10	29°23	27°44	4°28	27°56	T 26
W 27	0 21 59	3°37'30	25°38	27°49	24°51	6°36	17° 0	29°26	20°46	27° 5	20°10	29°17	27°41	4°35	28° 4	W 27
T 28	0 25 56	4°36'17	8 ^h 1	26°58	26° 5	7°15	17°13	29°25	20°49	27° 6	20°10	29°11	27°38	4°41	28°12	T 28
F 29	0 29 52	5°35'07	20°35	26°14	27°19	7°54	17°25	29°23	20°52	27° 7	20°10	29° 5	27°35	4°48	28°21	F 29
S 30	0 33 49	6 ^h 33'58	3 ^h 22	25 ^m 38	28 ^h 33	8 ^h 33	17 ^h 38	29 ^h 21	20 ^m 55	27 ^h 7	20 ^h 10	29 ^h 0	27 ^h 32	4 ^m 55	28 ^h 29	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	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	
F 1	8n26	10s19	5n 1	4s39	2s48	4n 6	1n20	4n52	0n56	3s34	1n 7	17n51	2s14	17s23	0n17	F 1
S 2	8 4	13 33	5 16	5 5	2 57	3 36	1 19	4 37	0 56	3 39	1 7	17 51	2 14	17 24	0 17	S 2
S 3	7 43	16 12	5 15	5 29	3 6	3 6	1 18	4 21	0 56	3 43	1 7	17 51	2 15	17 24	0 17	S 3
M 4	7 21	18 5	4 58	5 52	3 15	2 35	1 17	4 6	0 55	3 48	1 7	17 51	2 15	17 25	0 17	M 4
T 5	6 59	18 59	4 23	6 13	3 23	2 5	1 16	3 51	0 55	3 53	1 7	17 51	2 15	17 25	0 17	T 5
W 6	6 36	18 44	3 32	6 31	3 31	1 34	1 15	3 35	0 55	3 58	1 7	17 51	2 15	17 26	0 17	W 6
T 7	6 14	17 16	2 26	6 48	3 39	1 4	1 14	3 20	0 54	4 2	1 7	17 51	2 15	17 27	0 17	T 7
F 8	5 52	14 35	1 9	7 2	3 46	0 33	1 12	3 4	0 54	4 7	1 7	17 51	2 16	17 27	0 17	F 8
S 9	5 29	10 54	0s14	7 13	3 52	0 2	1 11	2 48	0 53	4 12	1 7	17 51	2 16	17 28	0 17	S 9
S 10	5 7	6 27	1 37	7 21	3 58	0s28	1 10	2 33	0 53	4 17	1 7	17 51	2 16	17 28	0 17	S 10
M 11	4 44	1 38	2 52	7 27	4 2	0 59	1 8	2 17	0 53	4 22	1 6	17 50	2 16	17 29	0 17	M 11
T 12	4 21	3n13	3 54	7 29	4 6	1 30	1 7	2 2	0 52	4 26	1 6	17 50	2 16	17 29	0 17	T 12
W 13	3 58	7 45	4 40	7 27	4 9	2 1	1 5	1 46	0 52	4 31	1 6	17 50	2 17	17 30	0 17	W 13
T 14	3 35	11 43	5 7	7 22	4 11	2 31	1 3	1 30	0 52	4 36	1 6	17 50	2 17	17 31	0 17	T 14
F 15	3 12	14 56	5 16	7 14	4 11	3 2	1 2	1 14	0 51	4 41	1 6	17 50	2 17	17 31	0 17	F 15
S 16	2 49	17 15	5 7	7 1	4 10	3 32	1 0	0 59	0 51	4 46	1 6	17 49	2 17	17 32	0 17	S 16
S 17	2 26	18 38	4 43	6 44	4 7	4 3	0 58	0 43	0 50	4 51	1 6	17 49	2 17	17 33	0 17	S 17
M 18	2 3	19 4	4 7	6 23	4 3	4 34	0 56	0 27	0 50	4 56	1 6	17 49	2 17	17 33	0 17	M 18
T 19	1 40	18 36	3 20	5 57	3 57	5 4	0 54	0 12	0 50	5 0	1 6	17 48	2 18	17 34	0 17	T 19
W 20	1 17	17 18	2 25	5 28	3 48	5 34	0 52	0s 4	0 49	5 5	1 6	17 48	2 18	17 35	0 17	W 20
T 21	0 53	15 15	1 24	4 56	3 38	6 4	0 50	0 20	0 49	5 10	1 6	17 48	2 18	17 35	0 17	T 21
F 22	0 30	12 35	0 20	4 20	3 26	6 34	0 48	0 36	0 48	5 15	1 6	17 47	2 18	17 36	0 17	F 22
S 23	0 7	9 23	0n44	3 42	3 12	7 4	0 46	0 51	0 48	5 20	1 6	17 47	2 18	17 37	0 17	S 23
S 24	0s16	5 49	1 47	3 2	2 57	7 34	0 44	1 7	0 48	5 25	1 6	17 46	2 19	17 38	0 17	S 24
M 25	0 40	1 59	2 45	2 21	2 40	8 4	0 42	1 23	0 47	5 30	1 6	17 46	2 19	17 38	0 17	M 25
T 26	1 3	1s58	3 37	1 40	2 21	8 33	0 39	1 39	0 47	5 35	1 5	17 45	2 19	17 39	0 17	T 26
W 27	1 26	5 52	4 19	1 0	2 2	9 3	0 37	1 55	0 46	5 40	1 5	17 45	2 19	17 40	0 17	W 27
T 28	1 50	9 35	4 50	0 21	1 42	9 32	0 35	2 10	0 46	5 45	1 5	17 44	2 19	17 41	0 17	T 28
F 29	2 13	12 56	5 8	0n15	1 22	10 1	0 32	2 26	0 46	5 50	1 5	17 44	2 19	17 41	0 17	F 29
S 30	2s36	15s44	5n10	0n48	1s 2	10s29	0n30	2s42	0n45	5s55	1n 5	17n43	2s20	17s42	0n17	S 30

Julian Day Number = 2505478.5, Delta T = 120.07 sec

Ecliptic obliquity = 23°25'05, Nutation = - 0°00'09, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°48'13, Lahiri = 25°55'14

ASTRODIENST EPHEMERIS for the year 2147
geocentric

OCTOBER 2147

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 37 46	7♂32'51	16♂24	25°R11	29♂47	9♂12	17♂51	29°R19	20♂58	27♂8	20°R 9	28°R56	27♂29	5♂1	28♂37	S 1
M 2	0 41 42	8°31'46	29°43	24♂53	1♂1	9°51	18° 4	29♂17	21° 1	27° 9	20♂9	28♂54	27°25	5° 8	28°45	M 2
T 3	0 45 39	9°30'43	13♂19	24°D46	2°15	10°31	18°17	29°15	21° 4	27°10	20° 9	28°D54	27°22	5°15	28°54	T 3
W 4	0 49 35	10°29'41	27°15	24°49	3°29	11°10	18°30	29°12	21° 7	27°10	20° 9	28°55	27°19	5°21	29° 2	W 4
T 5	0 53 32	11°28'42	11♂30	25° 3	4°43	11°49	18°43	29°10	21°10	27°11	20° 8	28°56	27°16	5°28	29°11	T 5
F 6	0 57 28	12°27'43	26° 3	25°26	5°57	12°28	18°56	29° 8	21°13	27°12	20° 8	28°R57	27°13	5°35	29°19	F 6
S 7	1 1 25	13°26'47	10♂50	25°59	7°11	13° 7	19° 9	29° 5	21°16	27°13	20° 8	28°57	27° 9	5°41	29°27	S 7
S 8	1 5 21	14°25'52	25°46	26°42	8°25	13°46	19°22	29° 2	21°19	27°14	20° 7	28°54	27° 6	5°48	29°36	S 8
M 9	1 9 18	15°24'59	10♂42	27°32	9°39	14°26	19°35	29° 0	21°23	27°15	20° 7	28°49	27° 3	5°54	29°44	M 9
T 10	1 13 15	16°24'09	25°31	28°31	10°53	15° 5	19°48	28°57	21°26	27°16	20° 6	28°43	27° 0	6° 1	29°53	T 10
W11	1 17 11	17°23'20	10♂4	29°36	12° 7	15°44	20° 1	28°54	21°29	27°17	20° 6	28°35	26°57	6° 8	0♂1	W11
T 12	1 21 8	18°22'34	24°15	0♂48	13°21	16°24	20°14	28°51	21°32	27°18	20° 5	28°27	26°54	6°14	0°10	T 12
F 13	1 25 4	19°21'50	7♂59	2° 5	14°35	17° 3	20°27	28°48	21°35	27°19	20° 5	28°20	26°50	6°21	0°18	F 13
S 14	1 29 1	20°21'08	21°16	3°27	15°48	17°43	20°40	28°44	21°39	27°20	20° 5	28°14	26°47	6°28	0°27	S 14
S 15	1 32 57	21°20'28	4♂6	4°53	17° 2	18°22	20°53	28°41	21°42	27°21	20° 4	28°11	26°44	6°34	0°35	S 15
M16	1 36 54	22°19'51	16°34	6°22	18°16	19° 2	21° 6	28°38	21°45	27°23	20° 3	28° 9	26°41	6°41	0°44	M16
T 17	1 40 50	23°19'16	28°44	7°54	19°30	19°41	21°19	28°34	21°49	27°24	20° 3	28°D 9	26°38	6°48	0°53	T 17
W18	1 44 47	24°18'43	10♂40	9°29	20°44	20°21	21°32	28°31	21°52	27°25	20° 2	28°10	26°35	6°54	1° 1	W18
T 19	1 48 44	25°18'13	22°29	11° 6	21°58	21° 0	21°45	28°27	21°56	27°26	20° 2	28°R11	26°31	7° 1	1°10	T 19
F 20	1 52 40	26°17'45	4♂16	12°44	23°11	21°40	21°58	28°24	21°59	27°28	20° 1	28°11	26°28	7° 8	1°18	F 20
S 21	1 56 37	27°17'19	16° 4	14°24	24°25	22°20	22°11	28°20	22° 3	27°29	20° 1	28° 9	26°25	7°14	1°27	S 21
S 22	2 0 33	28°16'55	27°59	16° 4	25°39	22°59	22°24	28°16	22° 6	27°30	20° 0	28° 5	26°22	7°21	1°36	S 22
M23	2 4 30	29°16'33	10♂3	17°45	26°53	23°39	22°37	28°12	22°10	27°32	19°59	27°58	26°19	7°28	1°44	M23
T 24	2 8 26	0♂16'13	22°18	19°27	28° 7	24°19	22°50	28° 8	22°13	27°33	19°59	27°48	26°15	7°34	1°53	T 24
W25	2 12 23	1°15'56	4♂46	21° 9	29°20	24°59	23° 3	28° 4	22°17	27°34	19°58	27°37	26°12	7°41	2° 1	W25
T 26	2 16 19	2°15'40	17°27	22°50	0♂34	25°39	23°16	28° 0	22°20	27°36	19°57	27°25	26° 9	7°47	2°10	T 26
F 27	2 20 16	3°15'27	0♂20	24°32	1°48	26°18	23°29	27°56	22°24	27°37	19°56	27°14	26° 6	7°54	2°19	F 27
S 28	2 24 13	4°15'15	13°25	26°14	3° 2	26°58	23°42	27°51	22°27	27°39	19°56	27° 3	26° 3	8° 1	2°27	S 28
S 29	2 28 9	5°15'05	26°42	27°56	4°16	27°38	23°55	27°47	22°31	27°40	19°55	26°55	26° 0	8° 7	2°36	S 29
M30	2 32 6	6°14'57	10♂10	29°37	5°29	28°18	24° 7	27°43	22°35	27°42	19°54	26°50	25°56	8°14	2°45	M30
T 31	2 36 2	7♂14'50	23♂49	1♂18	6♂43	28♂58	24♂20	27♂38	22♂38	27♂44	19♂53	26♂47	25♂53	8♂21	2♂53	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	
S 1	3s 0	17s48	4n57	1n17	0s42	10s58	0n27	2s58	0n45	6s 0	1n 5	17n43	2s20	17s43	0n16	22s10	1n13	13n24	9s41	11n50	12n20	10n18	10s57	0n 2						
M 2	3 23	18 58	4 27	1 41	0 22	11 26	0 25	3 13	0 44	6 5	1 5	17 42	2 20	17 44	0 16	22 10	1 13	13 24	9 41	11 51	12 21	10 16	11 0	0 2						
T 3	3 46	19 4	3 43	2 1	0 4	11 54	0 22	3 29	0 44	6 9	1 5	17 41	2 20	17 45	0 16	22 10	1 13	13 24	9 41	11 51	12 22	10 14	11 2	0 2						
W 4	4 9	18 1	2 44	2 16	0n13	12 21	0 20	3 45	0 43	6 14	1 5	17 41	2 20	17 45	0 16	22 10	1 13	13 24	9 41	11 50	12 24	10 13	11 5	0 2						
T 5	4 32	15 49	1 33	2 25	0 30	12 49	0 17	4 0	0 43	6 19	1 5	17 40	2 20	17 46	0 16	22 10	1 13	13 23	9 41	11 50	12 25	10 11	11 8	0 3						
F 6	4 55	12 35	0 16	2 30	0 45	13 16	0 15	4 16	0 43	6 24	1 5	17 39	2 21	17 47	0 16	22 10	1 13	13 23	9 41	11 50	12 26	10 9	11 10	0 3						
S 7	5 18	8 29	1s 4	2 29	0 58	13 43	0 12	4 32	0 42	6 29	1 5	17 39	2 21	17 48	0 16	22 10	1 13	13 23	9 42	11 50	12 27	10 8	11 13	0 3						
S 8	5 41	3 50	2 20	2 23	1 10	14 9	0 9	4 47	0 42	6 34	1 5	17 38	2 21	17 49	0 16	22 10	1 13	13 23	9 42	11 51	12 28	10 6	11 16	0 4						
M 9	6 4	1n 4	3 26	2 13	1 21	14 35	0 7	5 3	0 41	6 39	1 5	17 37	2 21	17 50	0 16	22 10	1 13	13 23	9 42	11 52	12 29	10 5	11 19	0 4						
T 10	6 27	5 51	4 18	1 58	1 30	15 1	0 4	5 18	0 41	6 44	1 5	17 37	2 21	17 50	0 16	22 10	1 13	13 22	9 42	11 55	12 30	10 3	11 21	0 4						
W11	6 49	10 12	4 52	1 39	1 38	15 26	0 1	5 34	0 40	6 49	1 5	17 36	2 21	17 51	0 16	22 11	1 13	13 22	9 42	11 57	12 31	10 1	11 24	0 4						
T 12	7 12	13 51	5 7	1 17	1 44	15 51	0s 1	5 50	0 40	6 54	1 5	17 35	2 21	17 52	0 16	22 11	1 13	13 22	9 42	12 0	12 32	10 0	11 27	0 5						
F 13	7 34	16 38	5 3	0 51	1 50	16 16	0 4	6 5	0 40	6 59	1 5	17 34	2 22	17 53	0 16	22 11	1 13	13 22	9 42	12 3	12 33	9 58	11 29	0 5						
S 14	7 57	18 25	4 43	0 22	1 54	16 40	0 7	6 20	0 39	7 4	1 5	17 33	2 22	17 54	0 16	22 11	1 13	13 22	9 43	12 5	12 34	9 56	11 32	0 5						
S 15	8 19	19 12	4 10	0s 9	1 57	17 4	0 10	6 36	0 39	7 8	1 5	17 33	2 22	17 55	0 16	22 11	1 13	13 22	9 43	12 6	12 36	9 55	11 35	0 6						
M16	8 41	19 0	3 25	0 43	1 59	17 27	0 13	6 51	0 38	7 13	1 5	17 32	2 22	17 56	0 16	22 11	1 13	13 21	9 43	12 6	12 37	9 53	11 38	0 6						
T 17	9 3	17 55	2 32	1 18	1 59	17 50	0 15	7 7	0 38	7 18	1 5	17 31	2 22	17 57	0 16	22 11	1 13	13 21	9 43	12 6	12 38	9 51	11 40	0 6						
W18	9 25	16 3	1 33	1 55	2 0	18 13	0 18	7 22	0 37	7 23	1 5	17 30	2 22	17 57	0 16	22 11	1 13	13 21	9 43	12 6	12 39	9 50	11 43	0 7						
T 19	9 47	13 31	0 31	2 34	1 59	18 35	0 21	7 37	0 37	7 28	1 5	17 29	2 22	17 58	0 16	22 11	1 13	13 21	9 43	12 6	12 40	9 48	11 46	0 7						
F 20	10 8	10 27	0n33	3 14	1 57	18 56	0 24	7 52	0 36	7 33	1 5	17 28	2 22	17 59	0 16	22 11	1 12	13 21	9 43	12 6	12 41	9 46	11 48	0 7						
S 21	10 30	6 56	1 34	3 54	1 55	19 17	0 27	8 8	0 36	7 38	1 5	17 27	2 22	18 0	0 16	22 11	1 12	13 21	9 44	12 6	12 42	9 45	11 51	0 7						
S 22	10 51	3 8	2 33	4 35	1 52	19 38	0 29	8 23	0 35	7 42	1 5	17 26	2 22	18 1	0 16	22 11	1 12	13 20	9 44	12 8	12 43	9 43	11 54	0 8						
M23	11 12	0s51	3 24	5 17	1 49	19 58	0 32	8 38	0 35	7 47	1 5	17 25	2 23	18 2	0 16	22 11	1 12	13 20	9 44	12 10	12 44	9 41	11 56	0 8						
T 24	11 33	4 51	4 7	5 59	1 45	20 17	0 35	8 53	0 35	7 52	1 5	17 25	2 23	18 3	0 16	22 11	1 12	13 20	9 44	12 13	12 45	9 40	11 59	0 8						
W25	11 54	8 42	4 39	6 41	1 41	20 36	0 38	9 8	0 34	7 57	1 5	17 24	2 23	18 4	0 16	22 11	1 12	13 20	9 44	12 17	12 46	9 38	12 2	0 9						
T 26	12 15	12 15	4 58	7 23	1 36	20 55	0 41	9 23	0 34	8 1	1 5	17 23	2 23	18 5	0 16	22 12	1 12	13 20	9 44	12 21	12 47	9 36	12 5	0 9						
F 27	12 35	15 16	5 2	8 5	1 31	21 13	0 43	9 38	0 33	8 6	1 5	17 22	2 23	18 6	0 16	22 12	1 12	13 19	9 44	12 25	12 48	9 35	12 7	0 9						
S 28	12 56	17 35	4 51	8 47	1 26	21 30	0 46	9 53	0 33	8 11	1 5	17 21	2 23	18 7	0 16	22 12	1 12	13 19	9 44	12 29	12 50	9 33	12 10	0 10						
S 29	13 16	18 59	4 23	9 29	1 20	21 47	0 49	10 7	0 32	8 16	1 5	17 20	2 23	18 8	0 16	22 12	1 12	13 19	9 45	12 32	12 51	9 31	12 13	0 10						
M30	13 35	18 51	3 41	10 10	1 15	22 3	0 52	10 22	0 32	8 20	1 5	17 19	2 23	18 8	0 16	22 12	1 12	13 19	9 45	12 33	12 52	9 30	12 15	0 10						
T 31	13s55	18s36	2n46	10s50	1n 9	22s18	0s54	10s37	0n31	8s25	1n 5	17n18	2s23	18s 9	0n16	22s12	1n12	13n19	9s45	12n34	12n53	9n28	12s18	0n10						

ASTRODIENST EPHEMERIS for the year 2147
geocentric

NOVEMBER 2147

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 39 59	8♍14'45	7♋40	2♍58	7♌57	29♊38	24♊33	27°R34	22♍42	27♌45	19°R53	26°D47	25♊50	8♍27	3♍ 2	W 1
T 2	2 43 55	9°14'42	21°42	4°38	9°10	0♍18	24°46	27♌30	22°46	27°47	19♊52	26°R47	25°47	8°34	3°10	T 2
F 3	2 47 52	10°14'40	5♌56	6°18	10°24	0°58	24°59	27°25	22°49	27°48	19°51	26♊47	25°44	8°41	3°19	F 3
S 4	2 51 48	11°14'40	20°20	7°58	11°38	1°39	25°12	27°20	22°53	27°50	19°50	26°45	25°40	8°47	3°28	S 4
S 5	2 55 45	12°14'41	4♍51	9°36	12°51	2°19	25°24	27°16	22°57	27°52	19°49	26°40	25°37	8°54	3°36	S 5
M 6	2 59 42	13°14'44	19°25	11°15	14° 5	2°59	25°37	27°11	23° 0	27°54	19°48	26°33	25°34	9° 1	3°45	M 6
T 7	3 3 38	14°14'49	3♌54	12°53	15°18	3°39	25°50	27° 6	23° 4	27°55	19°47	26°23	25°31	9° 7	3°53	T 7
W 8	3 7 35	15°14'56	18°13	14°31	16°32	4°19	26° 2	27° 2	23° 8	27°57	19°46	26°12	25°28	9°14	4° 2	W 8
T 9	3 11 31	16°15'04	2♊14	16° 8	17°46	5° 0	26°15	26°57	23°11	27°59	19°45	25°59	25°25	9°21	4°10	T 9
F 10	3 15 28	17°15'14	17°54	17°45	18°59	5°40	26°28	26°52	23°15	28° 1	19°45	25°48	25°21	9°27	4°19	F 10
S 11	3 19 24	18°15'26	29°10	19°21	20°13	6°20	26°40	26°47	23°19	28° 2	19°44	25°38	25°18	9°34	4°27	S 11
S 12	3 23 21	19°15'41	12♌ 1	20°57	21°26	7° 1	26°53	26°43	23°23	28° 4	19°43	25°31	25°15	9°40	4°36	S 12
M13	3 27 17	20°15'57	24°31	22°33	22°40	7°41	27° 5	26°38	23°26	28° 6	19°42	25°26	25°12	9°47	4°44	M13
T 14	3 31 14	21°16'15	6♊42	24° 8	23°53	8°22	27°18	26°33	23°30	28° 8	19°41	25°24	25° 9	9°54	4°52	T 14
W15	3 35 11	22°16'35	18°39	25°43	25° 6	9° 2	27°30	26°28	23°34	28°10	19°40	25°23	25° 6	10° 0	5° 1	W15
T 16	3 39 7	23°16'57	0♍29	27°18	26°20	9°43	27°43	26°23	23°37	28°12	19°39	25°23	25° 2	10° 7	5° 9	T 16
F 17	3 43 4	24°17'21	12°17	28°52	27°33	10°23	27°55	26°18	23°41	28°14	19°38	25°23	24°59	10°14	5°18	F 17
S 18	3 47 0	25°17'46	24° 7	0♌26	28°47	11° 4	28° 7	26°13	23°45	28°16	19°37	25°20	24°56	10°20	5°26	S 18
S 19	3 50 57	26°18'14	6♊ 6	2° 0	0♌ 0	11°45	28°20	26° 9	23°49	28°18	19°36	25°15	24°53	10°27	5°34	S 19
M20	3 54 53	27°18'43	18°16	3°34	1°13	12°25	28°32	26° 4	23°52	28°20	19°35	25° 8	24°50	10°34	5°42	M20
T 21	3 58 50	28°19'14	0♍42	5° 7	2°27	13° 6	28°44	25°59	23°56	28°22	19°33	24°57	24°46	10°40	5°51	T 21
W22	4 2 46	29°19'47	13°25	6°40	3°40	13°47	28°56	25°54	24° 0	28°24	19°32	24°45	24°43	10°47	5°59	W22
T 23	4 6 43	0♌20'22	26°24	8°13	4°53	14°28	29° 8	25°49	24° 4	28°26	19°31	24°31	24°40	10°54	6° 7	T 23
F 24	4 10 40	1°20'58	9♌40	9°46	6° 7	15° 8	29°20	25°44	24° 7	28°28	19°30	24°18	24°37	11° 0	6°15	F 24
S 25	4 14 36	2°21'35	23° 9	11°19	7°20	15°49	29°32	25°39	24°11	28°30	19°29	24° 6	24°34	11° 7	6°23	S 25
S 26	4 18 33	3°22'14	6♌50	12°51	8°33	16°30	29°44	25°34	24°15	28°32	19°28	23°56	24°31	11°14	6°31	S 26
M27	4 22 29	4°22'54	20°39	14°23	9°46	17°11	29°56	25°30	24°18	28°34	19°27	23°50	24°27	11°20	6°39	M27
T 28	4 26 26	5°23'35	4♌34	15°55	10°59	17°52	0♍ 8	25°25	24°22	28°36	19°26	23°46	24°24	11°27	6°47	T 28
W29	4 30 22	6°24'17	18°33	17°27	12°12	18°33	0°19	25°20	24°26	28°38	19°25	23°D45	24°21	11°34	6°55	W29
T 30	4 34 19	7♌25'01	2♌35	18♌59	13♌26	19♍14	0♍31	25♌15	24♍29	28♌41	19♊24	23°R45	24♊18	11♍40	7♍ 3	T 30

Day	☉	☽		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	14s15	16s44	1n40	11s31	1n 2	22s33	0s57	10s51	0n31	8s30	1n 5	17n17	2s23	18s10	0n16	22s12	1n12	13n19	9s45	12n35	12n54	9n26	12s21	0n11	
T 2	14 34	13 50	0 27	12 10	0 56	22 47	1 0	11 6	0 30	8 34	1 5	17 16	2 23	18 11	0 16	22 12	1 12	13 19	9 45	12 35	12 55	9 25	12 23	0 11	
F 3	14 53	10 5	0s48	12 50	0 50	23 1	1 2	11 20	0 30	8 39	1 5	17 14	2 23	18 12	0 16	22 12	1 12	13 18	9 45	12 35	12 56	9 23	12 26	0 11	
S 4	15 11	5 41	2 2	13 28	0 43	23 14	1 5	11 35	0 29	8 44	1 5	17 13	2 23	18 13	0 16	22 12	1 12	13 18	9 45	12 35	12 57	9 21	12 29	0 12	
S 5	15 30	0 56	3 7	14 6	0 37	23 26	1 8	11 49	0 29	8 48	1 5	17 12	2 23	18 14	0 16	22 12	1 12	13 18	9 45	12 37	12 58	9 19	12 31	0 12	
M 6	15 48	3n52	4 1	14 43	0 30	23 38	1 10	12 3	0 28	8 53	1 5	17 11	2 23	18 15	0 16	22 12	1 12	13 18	9 45	12 39	12 59	9 18	12 34	0 12	
T 7	16 6	8 26	4 38	15 19	0 23	23 49	1 13	12 17	0 28	8 57	1 5	17 10	2 23	18 16	0 16	22 12	1 12	13 18	9 45	12 43	13 0	9 16	12 36	0 13	
W 8	16 24	12 28	4 58	15 55	0 16	23 59	1 15	12 31	0 27	9 2	1 5	17 9	2 23	18 17	0 16	22 12	1 12	13 18	9 45	12 47	13 1	9 14	12 39	0 13	
T 9	16 41	15 42	4 59	16 30	0 10	24 9	1 18	12 45	0 27	9 7	1 5	17 8	2 23	18 18	0 16	22 12	1 12	13 17	9 46	12 51	13 2	9 13	12 42	0 13	
F 10	16 58	17 59	4 43	17 4	0 3	24 17	1 20	12 59	0 26	9 11	1 5	17 7	2 23	18 19	0 16	22 13	1 12	13 17	9 46	12 55	13 3	9 11	12 44	0 13	
S 11	17 15	19 13	4 12	17 37	0s 4	24 26	1 22	13 13	0 26	9 16	1 5	17 6	2 23	18 20	0 16	22 13	1 12	13 17	9 46	12 58	13 5	9 9	12 47	0 14	
S 12	17 32	19 25	3 28	18 9	0 11	24 33	1 25	13 27	0 25	9 20	1 5	17 5	2 23	18 21	0 16	22 13	1 12	13 17	9 46	13 0	13 6	9 8	12 49	0 14	
M13	17 48	18 39	2 36	18 40	0 17	24 40	1 27	13 40	0 25	9 24	1 6	17 4	2 23	18 22	0 16	22 13	1 12	13 17	9 46	13 2	13 7	9 6	12 52	0 14	
T 14	18 4	17 1	1 37	19 10	0 24	24 46	1 29	13 54	0 24	9 29	1 6	17 3	2 23	18 23	0 16	22 13	1 12	13 17	9 46	13 3	13 8	9 4	12 54	0 15	
W15	18 19	14 39	0 36	19 40	0 30	24 51	1 31	14 7	0 24	9 33	1 6	17 2	2 23	18 23	0 16	22 13	1 12	13 17	9 46	13 3	13 9	9 2	12 57	0 15	
T 16	18 35	11 43	0n27	20 8	0 37	24 56	1 34	14 21	0 23	9 38	1 6	17 1	2 23	18 24	0 16	22 13	1 11	13 16	9 46	13 3	13 10	9 1	12 59	0 15	
F 17	18 50	8 19	1 28	20 36	0 43	24 59	1 36	14 34	0 23	9 42	1 6	16 59	2 23	18 25	0 16	22 13	1 11	13 16	9 46	13 3	13 11	8 59	13 2	0 16	
S 18	19 4	4 34	2 26	21 2	0 50	25 2	1 38	14 47	0 22	9 46	1 6	16 58	2 23	18 26	0 16	22 13	1 11	13 16	9 46	13 4	13 12	8 57	13 4	0 16	
S 19	19 19	0 36	3 18	21 27	0 56	25 5	1 40	15 0	0 21	9 51	1 6	16 57	2 23	18 27	0 16	22 13	1 11	13 16	9 46	13 5	13 13	8 55	13 7	0 16	
M20	19 32	3s26	4 1	21 52	1 2	25 6	1 42	15 13	0 21	9 55	1 6	16 56	2 23	18 28	0 16	22 13	1 11	13 16	9 46	13 8	13 14	8 54	13 9	0 16	
T 21	19 46	7 25	4 34	22 15	1 8	25 7	1 44	15 26	0 20	9 59	1 6	16 55	2 23	18 29	0 16	22 13	1 11	13 16	9 46	13 12	13 15	8 52	13 12	0 17	
W22	19 59	11 10	4 55	22 37	1 14	25 7	1 45	15 39	0 20	10 3	1 6	16 54	2 23	18 30	0 16	22 13	1 11	13 16	9 46	13 16	13 16	8 50	13 14	0 17	
T 23	20 12	14 28	5 0	22 58	1 19	25 7	1 47	15 51	0 19	10 8	1 6	16 53	2 23	18 31	0 16	22 13	1 11	13 16	9 46	13 20	13 17	8 48	13 16	0 17	
F 24	20 25	17 6	4 50	23 18	1 25	25 5	1 49	16 4	0 19	10 12	1 6	16 52	2 23	18 32	0 16	22 13	1 11	13 16	9 46	13 25	13 18	8 47	13 19	0 18	
S 25	20 37	18 52	4 23	23 36	1 30	25 3	1 50	16 16	0 18	10 16	1 6	16 51	2 22	18 33	0 16	22 13	1 11	13 15	9 46	13 29	13 19	8 45	13 21	0 18	
S 26	20 49	19 34	3 41	23 54	1 35	25 0	1 52	16 28	0 18	10 20	1 6	16 50	2 22	18 34	0 16	22 13	1 11	13 15	9 46	13 32	13 20	8 43	13 24	0 18	
M27	21 0	19 6	2 46	24 10	1 40	24 57	1 53	16 41	0 17	10 24	1 6	16 49	2 22	18 35	0 16	22 13	1 11	13 15	9 46	13 34	13 21	8 42	13 26	0 19	
T 28	21 11	17 29	1 40	24 25	1 45	24 52	1 55	16 53	0 17	10 28	1 7	16 48	2 22	18 35	0 16	22 13	1 11	13 15	9 46	13 35	13 23	8 40	13 28	0 19	
W29	21 22	14 49	0 28	24 39	1 50	24 47	1 56	17 5	0 16	10 32	1 7	16 47	2 22	18 36	0 16	22 14	1 11	13 15	9 46	13 35	13 24	8 38	13 31	0 19	
T 30	21s32	11s16	0s47	24s51	1s54	24s41	1s57	17s16	0n15	10s36	1n 7	16n46	2s22	18s37	0n16	22s14	1n11	13n15	9s46	13n35	13n25	8n36	13s33	0n20	

ASTRODIENST EPHEMERIS for the year 2147
geocentric

DECEMBER 2147

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	4 38 15	8♂25'45	16♂41	20♂30	14♂39	19♍55	0♍43	25°R11	24♍33	28♂43	19°R22	23°R45	24♍15	11♍47	7♍11	F 1
S 2	4 42 12	9°26'30	0♀48	22° 2	15°52	20°37	0°54	25♂ 6	24°37	28°45	19♍21	23♍43	24°12	11°53	7°19	S 2
S 3	4 46 9	10°27'16	14°56	23°33	17° 5	21°18	1° 6	25° 1	24°40	28°47	19°20	23°39	24° 8	12° 0	7°27	S 3
M 4	4 50 5	11°28'03	29° 3	25° 3	18°17	21°59	1°17	24°57	24°44	28°49	19°19	23°33	24° 5	12° 7	7°34	M 4
T 5	4 54 2	12°28'51	13♂ 4	26°34	19°30	22°40	1°28	24°52	24°48	28°51	19°18	23°23	24° 2	12°13	7°42	T 5
W 6	4 57 58	13°29'40	26°57	28° 4	20°43	23°21	1°40	24°48	24°51	28°54	19°17	23°12	23°59	12°20	7°50	W 6
T 7	5 1 55	14°30'30	10♍37	29°34	21°56	24° 3	1°51	24°43	24°55	28°56	19°16	23° 0	23°56	12°27	7°57	T 7
F 8	5 5 51	15°31'21	24° 0	1♂ 3	23° 9	24°44	2° 2	24°39	24°58	28°58	19°14	22°48	23°52	12°33	8° 5	F 8
S 9	5 9 48	16°32'14	7♂ 5	2°32	24°21	25°25	2°13	24°34	25° 2	29° 0	19°13	22°39	23°49	12°40	8°12	S 9
S 10	5 13 44	17°33'07	19°50	4° 1	25°34	26° 7	2°24	24°30	25° 6	29° 2	19°12	22°31	23°46	12°47	8°19	S 10
M 11	5 17 41	18°34'02	2♍16	5°28	26°47	26°48	2°35	24°26	25° 9	29° 5	19°11	22°27	23°43	12°53	8°27	M 11
T 12	5 21 38	19°34'57	14°27	6°55	27°59	27°30	2°45	24°22	25°13	29° 7	19°10	22°25	23°40	13° 0	8°34	T 12
W 13	5 25 34	20°35'54	26°25	8°21	29°12	28°11	2°56	24°17	25°16	29° 9	19° 9	22°D24	23°37	13° 7	8°41	W 13
T 14	5 29 31	21°36'52	8♍15	9°46	0♂24	28°53	3° 7	24°13	25°19	29°11	19° 7	22°25	23°33	13°13	8°49	T 14
F 15	5 33 27	22°37'51	20° 3	11°10	1°36	29°34	3°17	24° 9	25°23	29°14	19° 6	22°R26	23°30	13°20	8°56	F 15
S 16	5 37 24	23°38'51	1♂54	12°32	2°49	0♂16	3°28	24° 5	25°26	29°16	19° 5	22°25	23°27	13°27	9° 3	S 16
S 17	5 41 20	24°39'52	13°53	13°52	4° 1	0°58	3°38	24° 2	25°30	29°18	19° 4	22°23	23°24	13°33	9°10	S 17
M 18	5 45 17	25°40'54	26° 6	15°10	5°13	1°40	3°48	23°58	25°33	29°20	19° 3	22°19	23°21	13°40	9°17	M 18
T 19	5 49 13	26°41'58	8♍36	16°26	6°25	2°21	3°59	23°54	25°36	29°23	19° 2	22°12	23°18	13°47	9°24	T 19
W 20	5 53 10	27°43'02	21°27	17°39	7°37	3° 3	4° 9	23°50	25°40	29°25	19° 1	22° 3	23°14	13°53	9°30	W 20
T 21	5 57 7	28°44'07	4♂39	18°49	8°49	3°45	4°19	23°47	25°43	29°27	18°59	21°54	23°11	14° 0	9°37	T 21
F 22	6 1 3	29°45'12	18°12	19°54	10° 1	4°27	4°29	23°43	25°46	29°30	18°58	21°44	23° 8	14° 7	9°44	F 22
S 23	6 5 0	0♂46'19	2♂ 5	20°56	11°13	5° 9	4°38	23°40	25°50	29°32	18°57	21°36	23° 5	14°13	9°50	S 23
S 24	6 8 56	1°47'26	16°11	21°52	12°25	5°51	4°48	23°37	25°53	29°34	18°56	21°29	23° 2	14°20	9°57	S 24
M 25	6 12 53	2°48'33	0♂28	22°42	13°37	6°33	4°58	23°33	25°56	29°36	18°55	21°25	22°58	14°27	10° 3	M 25
T 26	6 16 49	3°49'41	18°49	23°26	14°48	7°15	5° 7	23°30	25°59	29°39	18°54	21°D23	22°55	14°33	10°10	T 26
W 27	6 20 46	4°50'48	29°10	24° 2	16° 0	7°57	5°17	23°27	26° 2	29°41	18°53	21°23	22°52	14°40	10°16	W 27
T 28	6 24 42	5°51'56	13♂28	24°29	17°12	8°39	5°26	23°24	26° 5	29°43	18°52	21°24	22°49	14°46	10°22	T 28
F 29	6 28 39	6°53'04	27°40	24°47	18°23	9°21	5°35	23°21	26° 8	29°45	18°50	21°25	22°46	14°53	10°29	F 29
S 30	6 32 36	7°54'12	11♀44	24°R55	19°34	10° 3	5°44	23°19	26°12	29°48	18°49	21°R25	22°43	15° 0	10°35	S 30
S 31	6 36 32	8♂55'20	25♀40	24♂52	20♂45	10♂45	5♍53	23♂16	26♍15	29♂50	18♍48	21♍24	22♍39	15♍ 6	10♍41	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
F 1	21s41	7s 4	1s58	25s 2	1s58	24s35	1s59	17s28	0n15	10s40	1n 7	16n45	2s22	18s38	0n16	22s14	1n11	13n15	9s46	13n35	13n26	8n34	13s35	0n20	
S 2	21 51	2 29	3 3	25 12	2 2	24 28	2 0	17 39	0 14	10 44	1 7	16 44	2 22	18 39	0 16	22 14	1 11	13 15	9 46	13 36	13 27	8 33	13 37	0 20	
S 3	22 0	2n15	3 56	25 21	2 5	24 20	2 1	17 51	0 14	10 48	1 7	16 43	2 22	18 40	0 16	22 14	1 11	13 15	9 46	13 37	13 28	8 31	13 40	0 21	
M 4	22 8	6 50	4 35	25 28	2 8	24 11	2 2	18 2	0 13	10 52	1 7	16 42	2 21	18 41	0 16	22 14	1 11	13 15	9 46	13 40	13 29	8 29	13 42	0 21	
T 5	22 16	11 1	4 57	25 33	2 11	24 1	2 3	18 13	0 13	10 56	1 7	16 41	2 21	18 42	0 16	22 14	1 11	13 15	9 46	13 43	13 30	8 27	13 44	0 21	
W 6	22 24	14 34	5 1	25 38	2 14	23 51	2 3	18 24	0 12	10 59	1 7	16 40	2 21	18 43	0 16	22 14	1 11	13 15	9 46	13 46	13 31	8 26	13 46	0 21	
T 7	22 31	17 16	4 48	25 41	2 16	23 40	2 4	18 35	0 11	11 3	1 7	16 39	2 21	18 43	0 16	22 14	1 11	13 14	9 46	13 50	13 32	8 24	13 48	0 22	
F 8	22 38	18 58	4 19	25 42	2 17	23 29	2 5	18 46	0 11	11 7	1 7	16 38	2 21	18 44	0 16	22 14	1 11	13 14	9 46	13 54	13 33	8 22	13 50	0 22	
S 9	22 44	19 37	3 37	25 42	2 19	23 17	2 5	18 56	0 10	11 10	1 8	16 37	2 21	18 45	0 16	22 14	1 11	13 14	9 46	13 57	13 34	8 20	13 52	0 22	
S 10	22 50	19 14	2 45	25 41	2 20	23 4	2 6	19 6	0 10	11 14	1 8	16 36	2 20	18 46	0 16	22 14	1 11	13 14	9 46	14 0	13 35	8 19	13 54	0 23	
M11	22 56	17 55	1 45	25 38	2 20	22 51	2 6	19 17	0 9	11 18	1 8	16 36	2 20	18 47	0 16	22 14	1 11	13 14	9 46	14 1	13 36	8 17	13 57	0 23	
T 12	23 1	15 48	0 42	25 34	2 20	22 36	2 6	19 27	0 8	11 21	1 8	16 35	2 20	18 48	0 16	22 14	1 11	13 14	9 46	14 2	13 37	8 15	13 59	0 23	
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T 14	23 9	9 46	1 24	25 21	2 18	22 6	2 6	19 46	0 7	11 28	1 8	16 33	2 20	18 49	0 16	22 14	1 11	13 14	9 46	14 2	13 39	8 11	14 3	0 24	
F 15	23 13	6 7	2 23	25 13	2 16	21 50	2 6	19 56	0 7	11 32	1 8	16 32	2 20	18 50	0 16	22 14	1 11	13 14	9 46	14 1	13 40	8 10	14 5	0 24	
S 16	23 16	2 14	3 15	25 3	2 14	21 34	2 6	20 5	0 6	11 35	1 8	16 32	2 19	18 51	0 16	22 14	1 11	13 14	9 46	14 2	13 41	8 8	14 6	0 25	
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T 21	23 25	16 9	4 59	23 55	1 50	20 2	2 4	20 50	0 3	11 52	1 9	16 28	2 18	18 55	0 16	22 14	1 11	13 14	9 46	14 12	13 47	7 59	14 16	0 26	
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T 26	23 22	15 49	0 35	22 25	1 3	18 17	2 0	21 30	0s 0	12 7	1 10	16 25	2 17	18 59	0 16	22 14	1 11	13 14	9 45	14 22	13 52	7 50	14 24	0 28	
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T 28	23 17	8 17	1 57	21 47	0 35	17 32	1 57	21 45	0 1	12 13	1 10	16 24	2 17	19 0	0 16	22 14	1 11	13 14	9 45	14 21	13 54	7 46	14 28	0 29	
F 29	23 14	3 44	3 4	21 29	0 20	17 8	1 56	21 52	0 2	12 16	1 10	16 24	2 16	19 1	0 16	22 14	1 11	13 14	9 45	14 21	13 55	7 44	14 29	0 29	
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S 31	23s 7	5n34	4s39	20s54	0n14	16s20	1s52	22s 6	0s 3	12s22	1n10	16n23	2s16	19s 2	0n16	22s14	1n11	13n14	9s45	14n21	13n57	7n41	14s32	0n30	