



Astrodienst Ephemeris Tables for the year 2031

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 2031

geocentric

JANUARY 2031

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	6 41 50	10°21'18	15°23	18°47	28°3	22°30	15°22	2°R56	20°R 4	10°V36	10°43	6°D51	5°29	24°II39	12°R17	W 1
T 2	6 45 46	11°22'28	27°48	18°51	29°19	23° 1	15°35	2°II53	20°II 2	10°37	10°45	6°52	5°26	24°46	12°16	T 2
F 3	6 49 43	12°23'37	9°56	19°42	0°34	23°32	15°48	2°49	19°59	10°37	10°47	6°54	5°22	24°52	12°15	F 3
S 4	6 53 39	13°24'45	21°52	20°38	1°49	24° 3	16° 1	2°46	19°57	10°37	10°48	6°56	5°19	24°59	12°14	S 4
S 5	6 57 36	14°25'54	3°II42	21°37	3° 4	24°33	16°14	2°43	19°55	10°38	10°50	6°R57	5°16	25° 6	12°13	S 5
M 6	7 1 32	15°27'02	15°29	22°40	4°19	25° 4	16°26	2°40	19°52	10°38	10°52	6°56	5°13	25°12	12°12	M 6
T 7	7 5 29	16°28'11	27°17	23°45	5°34	25°34	16°39	2°37	19°50	10°39	10°54	6°54	5°10	25°19	12°11	T 7
W 8	7 9 26	17°29'19	9°56	24°53	6°49	26° 4	16°51	2°35	19°48	10°40	10°55	6°50	5° 7	25°26	12°10	W 8
T 9	7 13 22	18°30'27	21° 3	26° 4	8° 4	26°35	17° 4	2°32	19°46	10°40	10°57	6°44	5° 3	25°32	12° 9	T 9
F 10	7 17 19	19°31'34	3°II 5	27°16	9°19	27° 5	17°16	2°29	19°44	10°41	10°59	6°36	5° 0	25°39	12° 8	F 10
S 11	7 21 15	20°32'42	15°16	28°30	10°34	27°34	17°29	2°27	19°42	10°41	11° 1	6°27	4°57	25°46	12° 8	S 11
S 12	7 25 12	21°33'49	27°36	29°46	11°49	28° 4	17°41	2°25	19°40	10°42	11° 2	6°19	4°54	25°52	12° 7	S 12
M13	7 29 8	22°34'56	10°II 7	1°3 4	13° 4	28°34	17°53	2°22	19°38	10°43	11° 4	6°11	4°51	25°59	12° 7	M13
T 14	7 33 5	23°36'03	22°50	2°22	14°19	29° 3	18° 5	2°20	19°36	10°44	11° 6	6° 5	4°48	26° 6	12° 6	T 14
W15	7 37 1	24°37'10	5°II47	3°42	15°34	29°32	18°18	2°18	19°34	10°45	11° 8	6° 1	4°44	26°12	12° 6	W15
T 16	7 40 58	25°38'16	19° 0	5° 4	16°49	0°II 1	18°30	2°16	19°32	10°45	11° 9	5°59	4°41	26°19	12° 5	T 16
F 17	7 44 55	26°39'23	2°II33	6°26	18° 4	0°30	18°42	2°14	19°30	10°46	11°11	5°D59	4°38	26°26	12° 5	F 17
S 18	7 48 51	27°40'29	16°26	7°49	19°19	0°59	18°54	2°13	19°28	10°47	11°13	5°59	4°35	26°32	12° 5	S 18
S 19	7 52 48	28°41'35	0°II40	9°13	20°33	1°28	19° 6	2°11	19°26	10°48	11°15	6°R 0	4°32	26°39	12° 4	S 19
M20	7 56 44	29°42'41	15°14	10°38	21°48	1°56	19°17	2° 9	19°24	10°49	11°17	6° 0	4°28	26°46	12° 4	M20
T 21	8 0 41	0°43'47	0°3 5	12° 4	23° 3	2°24	19°29	2° 8	19°22	10°50	11°18	5°58	4°25	26°52	12°D 4	T 21
W22	8 4 37	1°44'52	15° 5	13°31	24°18	2°52	19°41	2° 7	19°21	10°51	11°20	5°53	4°22	26°59	12° 4	W22
T 23	8 8 34	2°45'57	0°II 8	14°58	25°33	3°20	19°52	2° 5	19°19	10°52	11°22	5°46	4°19	27° 5	12° 4	T 23
F 24	8 12 31	3°47'01	15° 3	16°26	26°48	3°48	20° 4	2° 4	19°17	10°53	11°24	5°37	4°16	27°12	12° 4	F 24
S 25	8 16 27	4°48'04	29°41	17°55	28° 2	4°15	20°15	2° 3	19°16	10°54	11°26	5°27	4°13	27°19	12° 5	S 25
S 26	8 20 24	5°49'06	13°II55	19°25	29°17	4°42	20°27	2° 2	19°14	10°56	11°28	5°17	4° 9	27°25	12° 5	S 26
M27	8 24 20	6°50'07	27°41	20°55	0°II32	5° 9	20°38	2° 2	19°13	10°57	11°30	5° 9	4° 6	27°32	12° 5	M27
T 28	8 28 17	7°51'06	10°V59	22°26	1°46	5°36	20°49	2° 1	19°11	10°58	11°31	5° 3	4° 3	27°39	12° 6	T 28
W29	8 32 13	8°52'05	23°49	23°58	3° 1	6° 2	21° 1	2° 1	19°10	10°59	11°33	5° 0	4° 0	27°45	12° 6	W29
T 30	8 36 10	9°53'03	6°II16	25°30	4°16	6°29	21°12	2° 0	19° 9	11° 1	11°35	4°D59	3°57	27°52	12° 7	T 30
F 31	8 40 6	10°53'59	18°II25	27°3 3	5°II30	6°II55	21°II23	2°II 0	19°II 7	11°V 2	11°37	4°59	3°54	27°II59	12°II 7	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	23s 2	9n50	4n 6	20s33	2n21	21s55	1s24	7s 8	1n45	22s 5	0n33	18n46	2s 0	23n10	0n 6	2n47
T 2	22 57	13 46	3 18	20 45	2 13	21 41	1 25	7 19	1 45	22 6	0 33	18 46	2 0	23 9	0 6	2 47
F 3	22 51	17 2	2 22	20 58	2 5	21 26	1 27	7 30	1 45	22 7	0 33	18 46	2 0	23 9	0 6	2 47
S 4	22 46	19 33	1 21	21 10	1 56	21 11	1 28	7 41	1 46	22 9	0 33	18 45	2 0	23 9	0 6	2 48
S 5	22 39	21 11	0 18	21 23	1 47	20 54	1 29	7 52	1 46	22 10	0 33	18 45	1 59	23 9	0 6	2 48
M 6	22 32	21 52	0s46	21 35	1 39	20 38	1 30	8 3	1 46	22 12	0 33	18 45	1 59	23 9	0 6	2 48
T 7	22 25	21 36	1 48	21 48	1 30	20 20	1 30	8 14	1 46	22 13	0 33	18 44	1 59	23 9	0 6	2 48
W 8	22 17	20 22	2 46	21 59	1 21	20 2	1 31	8 25	1 46	22 14	0 33	18 44	1 59	23 8	0 6	2 49
T 9	22 9	18 13	3 36	22 11	1 12	19 44	1 32	8 35	1 47	22 15	0 33	18 44	1 58	23 8	0 6	2 49
F 10	22 1	15 17	4 18	22 21	1 3	19 25	1 33	8 46	1 47	22 17	0 33	18 43	1 58	23 8	0 6	2 49
S 11	21 52	11 40	4 48	22 31	0 54	19 5	1 33	8 57	1 47	22 18	0 33	18 43	1 58	23 8	0 6	2 49
S 12	21 42	7 32	5 5	22 41	0 45	18 45	1 34	9 7	1 47	22 19	0 33	18 43	1 58	23 8	0 6	2 50
M13	21 33	3 2	5 7	22 49	0 37	18 24	1 34	9 17	1 47	22 20	0 33	18 43	1 57	23 8	0 6	2 50
T 14	21 22	1s40	4 55	22 57	0 28	18 3	1 35	9 27	1 48	22 21	0 33	18 43	1 57	23 8	0 6	2 50
W15	21 12	6 24	4 28	23 3	0 20	17 41	1 35	9 37	1 48	22 22	0 33	18 42	1 57	23 7	0 6	2 51
T 16	21 1	10 55	3 46	23 9	0 12	17 19	1 35	9 47	1 48	22 23	0 33	18 42	1 56	23 7	0 6	2 51
F 17	20 49	15 1	2 50	23 13	0 4	16 56	1 36	9 57	1 48	22 24	0 33	18 42	1 57	23 7	0 6	2 52
S 18	20 37	18 24	1 43	23 17	0s 4	16 33	1 36	10 7	1 48	22 25	0 33	18 42	1 56	23 7	0 6	2 52
S 19	20 25	20 45	0 29	23 19	0 12	16 9	1 36	10 17	1 49	22 26	0 33	18 42	1 56	23 7	0 6	2 52
M20	20 12	21 48	0n49	23 20	0 20	15 45	1 36	10 26	1 49	22 27	0 33	18 42	1 56	23 7	0 6	2 53
T 21	19 59	21 20	2 6	23 20	0 27	15 20	1 36	10 36	1 49	22 28	0 33	18 42	1 55	23 7	0 6	2 53
W22	19 46	19 22	3 14	23 19	0 34	14 55	1 36	10 45	1 49	22 29	0 33	18 42	1 55	23 6	0 6	2 54
T 23	19 32	16 4	4 8	23 17	0 41	14 30	1 35	10 54	1 49	22 30	0 33	18 42	1 55	23 6	0 6	2 54
F 24	19 18	11 46	4 46	23 13	0 48	14 4	1 35	11 4	1 50	22 31	0 33	18 42	1 54	23 6	0 6	2 55
S 25	19 4	6 50	5 3	23 8	0 55	13 38	1 35	11 13	1 50	22 32	0 33	18 42	1 54	23 6	0 6	2 55
S 26	18 49	1 41	5 1	23 2	1 1	13 12	1 34	11 22	1 50	22 33	0 33	18 42	1 54	23 6	0 6	2 56
M27	18 34	3n24	4 42	22 55	1 7	12 45	1 34	11 30	1 50	22 34	0 33	18 42	1 54	23 6	0 6	2 56
T 28	18 18	8 8	4 7	22 46	1 13	12 18	1 33	11 39	1 50	22 34	0 33	18 43	1 53	23 6	0 6	2 57
W29	18 2	12 22	3 21	22 36	1 18	11 50	1 33	11 48	1 50	22 35	0 33	18 43	1 53	23 6	0 6	2 57
T 30	17 46	15 55	2 27	22 24	1 24	11 22	1 32	11 56	1 50	22 36	0 33	18 43	1 53	23 5	0 6	2 58
F 31	17s30	18n42	1n27	22s12	1s29	10s54	1s31	12s 5	1n51	22s37	0n33	18n43	1s53	23n 5	0n 6	2n58

Julian Day Number = 2462867.5, Delta T = 69.52 sec
 Ecliptic obliquity = 23°26'03, Nutation = 0°00'16, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 25°10'24, Lahiri = 24°17'25

ASTRODIENST EPHEMERIS for the year 2031

geocentric

FEBRUARY 2031

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 44 3	11°54'54	0°11'21	28°33'37	6°45'45	7°11'21	21°33'33	2°R 0	19°R 6	11°V 3	11°39'39	4°R59	3°37'50	28°11'5	12°8'8	S 1
S 2	8 48 0	12°55'48	12°10'10	0°11'11	7°59'59	7°46'46	21°44'44	2°D 0	19°D 5	11° 5	11°41'41	4°37'59	3°47'47	28°12'12	12° 8	S 2
M 3	8 51 56	13°56'41	23°57'57	1°46'46	9°14'14	8°12'12	21°55'55	2°D 0	19° 4	11° 6	11°42'42	4°57'57	3°44'44	28°19'19	12° 9	M 3
T 4	8 55 53	14°57'32	5°34'45	3°22'22	10°28'28	8°37'37	22° 5	2° 0	19° 2	11° 7	11°44'44	4°53'53	3°41'41	28°25'25	12°10	T 4
W 5	8 59 49	15°58'22	17°40'40	4°58'58	11°43'43	9° 2	22°16'16	2° 0	19° 1	11° 9	11°46'46	4°46'46	3°38'38	28°32'32	12°11	W 5
T 6	9 3 46	16°59'11	29°43'43	6°35'35	12°57'57	9°26'26	22°26'26	2° 0	19° 0	11°10	11°48'48	4°36'36	3°34'34	28°39'39	12°12	T 6
F 7	9 7 42	17°59'59	11°02'57	8°13'13	14°11'11	9°51'51	22°37'37	2° 1	18°59'59	11°12	11°50'50	4°24'24	3°31'31	28°45'45	12°13	F 7
S 8	9 11 39	19° 0'45	24°23'23	9°52'52	15°25'25	10°15'15	22°47'47	2° 2	18°58'58	11°13	11°52'52	4°10'10	3°28'28	28°52'52	12°14	S 8
S 9	9 15 35	20° 1'30	7°11'0	11°31'31	16°40'40	10°39'39	22°57'57	2° 2	18°58'58	11°15	11°54'54	3°57'57	3°25'25	28°59'59	12°15	S 9
M10	9 19 32	21° 2'13	19°48'48	13°12'12	17°54'54	11° 2	23° 7	2° 3	18°57'57	11°17	11°55'55	3°44'44	3°22'22	29° 5	12°16	M10
T 11	9 23 29	22° 2'56	2°44'48	14°53'53	19° 8	11°25'25	23°17'17	2° 4	18°56'56	11°18	11°57'57	3°34'34	3°19'19	29°12'12	12°17	T 11
W12	9 27 25	23° 3'37	15°59'59	16°35'35	20°22'22	11°48'48	23°27'27	2° 5	18°55'55	11°20	11°59'59	3°27'27	3°15'15	29°19'19	12°18	W12
T 13	9 31 22	24° 4'18	29°21'21	18°17'17	21°36'36	12°11'11	23°36'36	2° 6	18°54'54	11°21	12° 1	3°22'22	3°12'12	29°25'25	12°20	T 13
F 14	9 35 18	25° 4'57	12°11'56	20° 1	22°50'50	12°33'33	23°46'46	2° 8	18°54'54	11°23	12° 3	3°20'20	3° 9	29°32'32	12°21	F 14
S 15	9 39 15	26° 5'35	26°43'43	21°45'45	24° 4	12°55'55	23°56'56	2° 9	18°53'53	11°25	12° 5	3°20'20	3° 6	29°39'39	12°23	S 15
S 16	9 43 11	27° 6'13	10°37'45	23°31'31	25°18'18	13°17'17	24° 5	2°11	18°53'53	11°27	12° 6	3°20'20	3° 3	29°45'45	12°24	S 16
M17	9 47 8	28° 6'49	25° 0	25°17'17	26°32'32	13°39'39	24°14'14	2°12	18°52'52	11°28	12° 8	3°19'19	2°59'59	29°52'52	12°26	M17
T 18	9 51 4	29° 7'23	9°32'27	27° 4	27°46'46	14° 0	24°23'23	2°14	18°52'52	11°30	12°10'10	3°15'15	2°56'56	29°59'59	12°27	T 18
W19	9 55 1	0°11'37	7°57'57	24° 3	28°52'52	29° 0	14°20'20	2°16	18°51'51	11°32	12°12'12	3° 9	2°53'53	0°52'52	12°29	W19
T 20	9 58 58	1° 8'29	8°32'42	0°11'41	0°11'41	14°41'41	24°41'41	2°18	18°51'51	11°34	12°14'14	3° 0	2°50'50	0°12'12	12°31	T 20
F 21	10 2 54	2° 9'00	23°18'18	2°30'30	1°28'28	15° 1	24°50'50	2°20	18°51'51	11°36	12°15'15	2°48'48	2°47'47	0°19'19	12°33	F 21
S 22	10 6 51	3° 9'29	7°11'42	4°21'21	2°41'41	15°20'20	24°59'59	2°22	18°51'51	11°37	12°17'17	2°36'36	2°44'44	0°25'25	12°34	S 22
S 23	10 10 47	4° 9'56	21°48'48	6°12'12	3°55'55	15°39'39	25° 7	2°24	18°50'50	11°39	12°19'19	2°23'23	2°40'40	0°32'32	12°36	S 23
M24	10 14 44	5°10'22	5°11'31	8° 4	5° 9	15°58'58	25°15'15	2°27	18°50'50	11°41	12°21'21	2°13'13	2°37'37	0°39'39	12°38	M24
T 25	10 18 40	6°10'46	18°49'49	9°57'57	6°22'22	16°17'17	25°24'24	2°29	18°50'50	11°43	12°22'22	2° 4	2°34'34	0°45'45	12°40	T 25
W26	10 22 37	7°11'08	1°11'42	11°50'50	7°36'36	16°35'35	25°32'32	2°32	18°50'50	11°45	12°24'24	1°59'59	2°31'31	0°52'52	12°42	W26
T 27	10 26 33	8°11'28	14°12'12	13°44'44	8°49'49	16°52'52	25°40'40	2°34	18°50'50	11°47	12°26'26	1°56'56	2°28'28	0°59'59	12°44	T 27
F 28	10 30 30	9°11'47	26°11'24	15°11'38	10°11'2	17°11'9	25°11'48	2°37	18°50'50	11°49	12°27'27	1°55'55	2°27'27	1°55'55	12°46	F 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	decl	lat
S 1	17s13	20n37	0n25	21s57	1s33	10s26	1s30	12s13	1n51	22s37	0n32	18n43	1s52	23n 5	0n 6	2n59	1s31	23s10	6s 7	21s 8	20s55	21n18	13n40	1s54			
S 2	16 56	21 37	0s38	21 42	1 38	9 57	1 29	12 21	1 51	22 38	0 32	18 44	1 52	23 5	0 6	2 59	1 31	23 9	6 7	21 7	20 54	21 17	13 40	1 54			
M 3	16 38	21 39	1 39	21 25	1 42	9 28	1 28	12 29	1 51	22 39	0 32	18 44	1 52	23 5	0 6	3 0	1 31	23 9	6 7	21 7	20 54	21 17	13 41	1 54			
T 4	16 21	20 43	2 36	21 7	1 46	8 59	1 27	12 37	1 51	22 40	0 32	18 44	1 51	23 5	0 6	3 1	1 31	23 8	6 7	21 6	20 53	21 16	13 41	1 54			
W 5	16 3	18 52	3 26	20 47	1 49	8 30	1 26	12 45	1 51	22 40	0 32	18 44	1 51	23 5	0 6	3 1	1 31	23 8	6 7	21 5	20 52	21 15	13 41	1 54			
T 6	15 44	16 10	4 8	20 26	1 53	8 0	1 25	12 52	1 51	22 41	0 32	18 45	1 51	23 5	0 6	3 2	1 31	23 7	6 8	21 3	20 52	21 15	13 41	1 53			
F 7	15 26	12 44	4 38	20 4	1 56	7 30	1 23	13 0	1 51	22 41	0 32	18 45	1 51	23 5	0 6	3 2	1 31	23 7	6 8	21 1	20 51	21 14	13 42	1 53			
S 8	15 7	8 44	4 57	19 40	1 58	7 0	1 22	13 7	1 51	22 42	0 32	18 46	1 50	23 5	0 6	3 3	1 31	23 6	6 8	20 59	20 51	21 13	13 42	1 53			
S 9	14 48	4 17	5 0	19 15	2 0	6 30	1 21	13 15	1 51	22 42	0 32	18 46	1 50	23 5	0 6	3 4	1 31	23 6	6 8	20 56	20 50	21 12	13 42	1 53			
M10	14 29	0s24	4 49	18 48	2 2	6 0	1 19	13 22	1 52	22 43	0 32	18 46	1 50	23 5	0 6	3 4	1 31	23 6	6 8	20 54	20 49	21 12	13 43	1 53			
T 11	14 9	5 8	4 23	18 20	2 4	5 29	1 18	13 29	1 52	22 44	0 32	18 47	1 50	23 4	0 6	3 5	1 30	23 5	6 8	20 52	20 49	21 11	13 43	1 53			
W12	13 50	9 43	3 43	17 51	2 5	4 59	1 16	13 36	1 52	22 44	0 32	18 47	1 49	23 4	0 6	3 6	1 30	23 5	6 8	20 50	20 48	21 10	13 44	1 53			
T 13	13 30	13 53	2 49	17 20	2 6	4 28	1 14	13 43	1 52	22 45	0 32	18 48	1 49	23 4	0 6	3 6	1 30	23 4	6 8	20 49	20 48	21 9	13 44	1 53			
F 14	13 9	17 24	1 46	16 48	2 6	3 57	1 12	13 50	1 52	22 45	0 32	18 48	1 49	23 4	0 6	3 7	1 30	23 4	6 8	20 49	20 47	21 9	13 45	1 53			
S 15	12 49	19 59	0 35	16 14	2 6	3 26	1 11	13 56	1 52	22 45	0 32	18 49	1 48	23 4	0 6	3 8	1 30	23 3	6 8	20 49	20 46	21 8	13 45	1 53			
S 16	12 28	21 24	0n39	15 39	2 5	2 55	1 9	14 3	1 52	22 46	0 32	18 49	1 48	23 4	0 6	3 8	1 30	23 3	6 9	20 49	20 46	21 7	13 46	1 53			
M17	12 8	21 29	1 52	15 2	2 4	2 24	1 7	14 9	1 52	22 46	0 32	18 50	1 48	23 4	0 6	3 9	1 30	23 3	6 9	20 49	20 45	21 6	13 46	1 53			
T 18	11 47	20 8	2 58	14 24	2 3	1 52	1 5	14 15	1 52	22 47	0 32	18 51	1 48	23 4	0 6	3 10	1 30	23 2	6 9	20 48	20 44	21 5	13 47	1 53			
W19	11 25	17 27	3 54	13 45	2 1	1 21	1 2	14 21	1 52	22 47	0 32	18 51	1 47	23 4	0 6	3 11	1 30	23 2	6 9	20 47	20 44	21 5	13 47	1 53			
T 20	11 4	13 40	4 34	13 4	1 58	0 50	1 0	14 27	1 52	22 47	0 32	18 52	1 47	23 4	0 6	3 11	1 30	23 1	6 9	20 45	20 43	21 4	13 48	1 53			
F 21	10 42	9 5	4 56	12 22	1 55	0 18	0 58	14 33	1 52	22 48	0 32	18 53	1 47	23 4	0 6	3 12	1 30	23 1	6 9	20 43	20 43	21 3	13 48	1 53			
S 22	10 21	4 3	4 59	11 39	1 52	0n13	0 56	14 39	1 52	22 48	0 32	18 53	1 47	23 4	0 6	3 13	1 30	23 1	6 9	20 41	20 42	21 2	13 49	1 53			
S 23	9 59	1n 5	4 44	10 54	1 48	0 44	0 53	14 45	1 52	22 48	0 32	18 54	1 46	23 4	0 6	3 14	1 30	23 0	6 9	20 38	20 41	21 1	13 49	1 53			
M24	9 37	6 3	4 12	10 8	1 43	1 16	0 51	14 50	1 52	22 49	0 32	18 55	1 46	23 4	0 6	3 14	1 30	23 0	6 9	20 36	20 41	21 1	13 50	1 53			
T 25	9 15	10 33	3 27	9 21	1 38	1 47	0 49	14 55	1 51	22 49	0 32	18 55	1 46	23 4	0 6	3 15	1 30	22 59	6 10	20 34	20 40	21 0	13 51	1 53			
W26	8 52	14 27	2 33	8 32	1 32	2 18	0 46	15 1	1 51	22 49	0 32	18 56	1 46	23 4	0 6	3 16	1 30	22 59	6 10	20 33	20 40	20 59	13 51	1 53			
T 27	8 30	17 34	1 32	7 43	1 26	2 50	0 43	15 6	1 51	22 50	0 32	18 57	1 45	23 4	0 6	3 17	1 30	22 59	6 10	20 33	20 39	20 58	13 52	1 53			
F 28	8s 7	19n49	0n29	6s52	1s19	3n21	0s41	15s11	1n51	22s50	0n32	18n58	1s45	23n 4	0n 6	3n17	1s30	22s58	6s10	20s32	20s38	20n57	13n53	1s52			

ASTRODIENST EPHEMERIS for the year 2031

geocentric

MARCH 2031

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 34 26	10 ¹¹ 12'03	8 ¹¹ 22	17 ¹¹ 32	11 ¹¹ 16	17 ¹¹ 26	25 ¹¹ 55	2 ¹¹ 40	18 ¹¹ 51	11 ¹¹ 51	12 ¹¹ 29	1 ¹¹ R55	2 ¹¹ 21	1 ¹¹ 12	12 ¹¹ 49	S 1
S 2	10 38 23	11°12'17	20°13	19°27	12°29	17°43	26° 3	2°43	18°51	11°53	12°31	1 ¹¹ 55	2°18	1°19	12°51	S 2
M 3	10 42 20	12°12'29	2 ¹¹ 1	21°21	13°42	17°58	26°11	2°46	18°51	11°55	12°32	1°53	2°15	1°25	12°53	M 3
T 4	10 46 16	13°12'39	13°51	23°15	14°55	18°14	26°18	2°49	18°51	11°57	12°34	1°49	2°12	1°32	12°56	T 4
W 5	10 50 13	14°12'48	25°50	25° 8	16° 8	18°29	26°25	2°53	18°52	11°59	12°36	1°43	2° 9	1°39	12°58	W 5
T 6	10 54 9	15°12'54	7 ¹¹ 59	27° 0	17°21	18°43	26°32	2°56	18°52	12° 1	12°37	1°34	2° 5	1°45	13° 0	T 6
F 7	10 58 6	16°12'58	20°23	28°51	18°34	18°57	26°39	2°59	18°53	12° 3	12°39	1°23	2° 2	1°52	13° 3	F 7
S 8	11 2 2	17°13'00	3 ¹¹ 2	0 ¹¹ 41	19°47	19°11	26°46	3° 3	18°53	12° 5	12°40	1°10	1°59	1°59	13° 5	S 8
S 9	11 5 59	18°13'00	15°57	2°28	21° 0	19°24	26°52	3° 7	18°54	12° 7	12°42	0°57	1°56	2° 5	13° 8	S 9
M10	11 9 55	19°12'58	29° 7	4°12	22°13	19°36	26°59	3°11	18°55	12° 9	12°44	0°45	1°53	2°12	13°11	M10
T 11	11 13 52	20°12'54	12 ¹¹ 30	5°53	23°26	19°48	27° 5	3°14	18°55	12°12	12°45	0°35	1°50	2°19	13°13	T 11
W12	11 17 49	21°12'49	26° 4	7°31	24°38	19°59	27°11	3°18	18°56	12°14	12°47	0°28	1°46	2°25	13°16	W12
T 13	11 21 45	22°12'41	9 ¹¹ 47	9° 4	25°51	20°10	27°17	3°22	18°57	12°16	12°48	0°24	1°43	2°32	13°19	T 13
F 14	11 25 42	23°12'32	23°37	10°33	27° 3	20°20	27°23	3°27	18°58	12°18	12°50	0°22	1°40	2°39	13°22	F 14
S 15	11 29 38	24°12'22	7 ¹¹ 34	11°57	28°15	20°30	27°29	3°31	18°59	12°20	12°51	0°D22	1°37	2°45	13°24	S 15
S 16	11 33 35	25°12'10	21°36	13°15	29°28	20°39	27°34	3°35	18°59	12°22	12°53	0°R23	1°34	2°52	13°27	S 16
M17	11 37 31	26°11'56	5 ¹¹ 43	14°27	0 ¹¹ 40	20°48	27°40	3°40	19° 0	12°25	12°54	0°22	1°31	2°59	13°30	M17
T 18	11 41 28	27°11'41	19°55	15°32	1°52	20°56	27°45	3°44	19° 2	12°27	12°56	0°20	1°27	3° 5	13°33	T 18
W19	11 45 24	28°11'23	4 ¹¹ 8	16°30	3° 4	21° 3	27°50	3°49	19° 3	12°29	12°57	0°16	1°24	3°12	13°36	W19
T 20	11 49 21	29°11'05	18°20	17°21	4°16	21° 9	27°55	3°53	19° 4	12°31	12°58	0° 9	1°21	3°19	13°39	T 20
F 21	11 53 18	0 ¹¹ 10'44	2 ¹¹ 28	18° 5	5°28	21°15	27°59	3°58	19° 5	12°33	13° 0	29 ¹¹ 59	1°18	3°25	13°42	F 21
S 22	11 57 14	1°10'21	16°26	18°41	6°40	21°21	28° 4	4° 3	19° 6	12°36	13° 1	29°50	1°15	3°32	13°45	S 22
S 23	12 1 11	2° 9'56	0 ¹¹ 10	19° 8	7°52	21°25	28° 8	4° 8	19° 8	12°38	13° 2	29°40	1°11	3°39	13°49	S 23
M24	12 5 7	3° 9'30	13°36	19°28	9° 4	21°29	28°12	4°13	19° 9	12°40	13° 4	29°31	1° 8	3°45	13°52	M24
T 25	12 9 4	4° 9'01	26°43	19°40	10°15	21°32	28°16	4°18	19°10	12°42	13° 5	29°24	1° 5	3°52	13°55	T 25
W26	12 13 0	5° 8'30	9 ¹¹ 30	19°R45	11°27	21°35	28°20	4°23	19°12	12°45	13° 6	29°20	1° 2	3°59	13°58	W26
T 27	12 16 57	6° 7'57	21°58	19°41	12°38	21°37	28°24	4°28	19°13	12°47	13° 8	29°18	0°59	4° 5	14° 2	T 27
F 28	12 20 53	7° 7'22	4 ¹¹ 10	19°30	13°49	21°38	28°27	4°34	19°15	12°49	13° 9	29°D18	0°56	4°12	14° 5	F 28
S 29	12 24 50	8° 6'44	16°10	19°12	15° 1	21°R38	28°31	4°39	19°16	12°51	13°10	29°19	0°52	4°19	14° 8	S 29
S 30	12 28 46	9° 6'05	28° 1	18°47	16°12	21°38	28°34	4°44	19°18	12°54	13°11	29°20	0°49	4°25	14°12	S 30
M31	12 32 43	10 ¹¹ 5'23	9 ¹¹ 51	18 ¹¹ 17	17 ¹¹ 23	21 ¹¹ 37	28 ¹¹ 37	4 ¹¹ 50	19 ¹¹ 20	12 ¹¹ 56	13 ¹¹ 12	29°R21	0 ¹¹ 46	4 ¹¹ 32	14 ¹¹ 15	M31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	7s45	21n 8	0s34	6s 1	1s11	3n52	0s38	15s16	1n51	22s50	0n32	18n59	1s45	23n 4	0n 6	3n18	1s30	22s58	6s10	20s32	20s38	20n56	13n53	1s53											
S 2	7 22	21 29	1 35	5 9	1 3	4 23	0 35	15 20	1 51	22 50	0 32	18 59	1 44	23 4	0 6	3 19	1 30	22 58	6 10	20 32	20 37	20 56	13 54	1 53											
M 3	6 59	20 53	2 32	4 16	0 54	4 54	0 33	15 25	1 51	22 51	0 32	19 0	1 44	23 4	0 6	3 20	1 30	22 57	6 11	20 32	20 36	20 55	13 55	1 53											
T 4	6 36	19 21	3 23	3 22	0 45	5 25	0 30	15 29	1 50	22 51	0 32	19 1	1 44	23 4	0 6	3 21	1 30	22 57	6 11	20 31	20 36	20 54	13 55	1 53											
W 5	6 13	16 58	4 5	2 28	0 35	5 56	0 27	15 34	1 50	22 51	0 32	19 2	1 44	23 4	0 6	3 21	1 30	22 57	6 11	20 30	20 35	20 53	13 56	1 53											
T 6	5 50	13 49	4 37	1 34	0 24	6 27	0 24	15 38	1 50	22 51	0 32	19 3	1 43	23 4	0 6	3 22	1 30	22 56	6 11	20 28	20 35	20 52	13 57	1 53											
F 7	5 26	10 1	4 56	0 39	0 13	6 57	0 21	15 42	1 50	22 51	0 32	19 4	1 43	23 4	0 6	3 23	1 30	22 56	6 11	20 26	20 34	20 51	13 58	1 53											
S 8	5 3	5 42	5 1	0n15	0 2	7 27	0 18	15 46	1 49	22 52	0 32	19 5	1 43	23 4	0 6	3 24	1 30	22 56	6 11	20 23	20 33	20 51	13 58	1 53											
S 9	4 40	1 4	4 51	1 8	0n10	7 58	0 15	15 49	1 49	22 52	0 32	19 6	1 43	23 4	0 6	3 25	1 30	22 55	6 11	20 21	20 33	20 50	13 59	1 53											
M10	4 16	3s43	4 26	2 1	0 23	8 28	0 12	15 53	1 49	22 52	0 32	19 7	1 42	23 4	0 6	3 26	1 30	22 55	6 12	20 18	20 32	20 49	14 0	1 53											
T 11	3 53	8 24	3 45	2 53	0 36	8 58	0 9	15 57	1 48	22 52	0 32	19 8	1 42	23 5	0 6	3 26	1 30	22 55	6 12	20 16	20 31	20 48	14 1	1 53											
W12	3 29	12 44	2 52	3 44	0 49	9 27	0 6	16 0	1 48	22 52	0 32	19 9	1 42	23 5	0 6	3 27	1 30	22 55	6 12	20 15	20 31	20 47	14 2	1 53											
T 13	3 5	16 26	1 47	4 33	1 2	9 57	0 3	16 3	1 48	22 52	0 32	19 10	1 42	23 5	0 6	3 28	1 30	22 54	6 12	20 14	20 30	20 46	14 2	1 53											
F 14	2 42	19 15	0 36	5 20	1 15	10 26	0n 1	16 6	1 47	22 52	0 32	19 11	1 42	23 5	0 6	3 29	1 30	22 54	6 12	20 13	20 29	20 45	14 3	1 53											
S 15	2 18	20 56	0n38	6 5	1 28	10 55	0 4	16 9	1 47	22 52	0 32	19 12	1 41	23 5	0 6	3 30	1 30	22 54	6 13	20 13	20 29	20 44	14 4	1 53											
S 16	1 54	21 20	1 51	6 47	1 41	11 23	0 7	16 12	1 46	22 53	0 32	19 13	1 41	23 5	0 6	3 31	1 30	22 54	6 13	20 14	20 28	20 44	14 5	1 53											
M17	1 31	20 22	2 57	7 27	1 54	11 52	0 10	16 15	1 46	22 53	0 32	19 14	1 41	23 5	0 6	3 32	1 30	22 53	6 13	20 13	20 28	20 43	14 6	1 53											
T 18	1 7	18 8	3 52	8 4	2 7	12 20	0 14	16 17	1 45	22 53	0 32	19 15	1 41	23 5	0 6	3 32	1 30	22 53	6 13	20 13	20 27	20 42	14 7	1 53											
W19	0 43	14 47	4 33	8 37	2 19	12 48	0 17	16 20	1 45	22 53	0 32	19 16	1 40	23 5	0 6	3 33	1 30	22 53	6 13	20 12	20 26	20 41	14 8	1 53											
T 20	0 19	10 36	4 58	9 7	2 30	13 16	0 20	16 22	1 44	22 53	0 32	19 17	1 40	23 5	0 6	3 34	1 30	22 53	6 13	20 11	20 26	20 40	14 8	1 53											
F 21	0n 4	5 52	5 4	9 34	2 41	13 43	0 24	16 24	1 44	22 53	0 32	19 18	1 40	23 5	0 6	3 35	1 30	22 52	6 14	20 9	20 25	20 39	14 9	1 53											
S 22	0 28	0 52	4 52	9 56	2 50	14 10	0 27	16 26	1 43	22 53	0 32	19 19	1 40	23 6	0 6	3 36	1 30	22 52	6 14	20 7	20 24	20 38	14 10	1 53											
S 23	0 52	4n 5	4 23	10 15	2 59	14 37	0 30	16 28	1 42	22 53	0 32	19 20	1 39	23 6	0 6	3 37	1 30	22 52	6 14	20 4	20 24	20 37	14 11	1 53											
M24	1 15	8 44	3 40	10 30	3 7	15 3	0 34	16 30	1 42	22 53	0 32	19 21	1 39	23 6	0 6	3 38	1 30	22 52	6 14	20 3	20 23	20 36	14 12	1 53											
T 25	1 39	12 52	2 46	10 40	3 13	15 29	0 37	16 31	1 41	22 53	0 32	19 23	1 39	23 6	0 6	3 39	1 30	22 52	6 14	20 1	20 22	20 35	14 13	1 53											
W26	2 3	16 18	1 44	10 46	3 18	15 54	0 41	16 33	1 40	22 53	0 32	19 24	1 39	23 6	0 6	3 39	1 30	22 51	6 15	20 0	20 22	20 34	14 14	1 53											
T 27	2 26	18 53	0 39	10 48	3 22	16 20	0 44	16 34	1 39	22 53	0 32	19 25	1 39	23 6	0 6	3 40	1 30	22 51	6 15	20 0	20 21	20 33	14 15	1 53											
F 28	2 50	20 33	0s26	10 46	3 24	16 44	0 47	16 35	1 38	22 53	0 32	19 26	1 38	23 6	0 6	3 41	1 30	22 51	6 15	20 0	20 20	20 32	14 16	1 53											
S 29	3 13	21 14	1 30	10 40	3 23	17 9	0 51	16 36	1 38	22 53	0 32	19 27	1 38	23 6	0 6	3 42	1 30	22 51	6 15	20 0	20 20	20 31	14 17	1 53											
S 30	3 36	20 57	2 29	10 29	3 23	17 33	0 54	16 37	1 37	22 54	0 32	19 28	1 38	23 6	0 6	3 43	1 30	22 51	6 16	20 0	20 19	20 31	14 18	1 53											
M31	4n 0	19n44	3s21	10n15	3n20	17n56	0n58	16s37	1n36	22s54	0n32	19n30	1s38	23n 7	0n 6	3n44	1s30	22s51	6s16	20s 0	20s18	20n30	14n19	1s53											

ASTRODIENST EPHEMERIS for the year 2031

geocentric

MAY 2031

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 34 56	10 ⁸ 27'03	23 ² 51	13 ⁴ 48	23 ¹¹ 6	15 ¹⁵ R 7	28 ¹⁸ R37	8 ¹¹ 11	20 ¹¹ 33	14 ¹⁴ 5	13 ³ 36	28 ¹⁸ R16	29 ¹¹ 8	7 ² 59	16 ¹⁸ 11	T 1
F 2	14 38 53	11 ¹ 25'17	6 ¹¹ 19	14 ⁴ 43	24 ¹³ 13	14 ¹¹ 45	28 ² 34	8 ¹⁸ 18	20 ³ 36	14 ⁷ 7	13 ³ 37	28 ¹¹ 14	29 ⁴ 4	8 ⁵ 5	16 ¹⁵ 15	F 2
S 3	14 42 49	12 ² 23'30	19 ⁸ 8	15 ⁴ 40	25 ¹⁹ 19	14 ²⁴ 24	28 ³¹ 31	8 ²⁵ 25	20 ³ 39	14 ⁹ 9	13 ³ 37	28 ¹² 12	29 ¹ 1	8 ¹² 12	16 ¹⁹ 19	S 3
S 4	14 46 46	13 ² 21'41	2 ² 20	16 ⁴ 41	26 ²⁵ 25	14 ² 2	28 ²⁷ 27	8 ³³ 33	20 ⁴² 42	14 ¹¹ 11	13 ³ 37	28 ¹⁰ 10	28 ⁵⁸ 58	8 ¹⁹ 19	16 ²³ 23	S 4
M 5	14 50 42	14 ¹ 19'50	15 ⁵ 56	17 ⁴ 44	27 ³² 32	13 ⁴⁰ 40	28 ²⁴ 24	8 ⁴⁰ 40	20 ⁴⁵ 45	14 ¹³ 13	13 ³ 38	28 ⁸ 8	28 ⁵⁵ 55	8 ²⁵ 25	16 ²⁷ 27	M 5
T 6	14 54 39	15 ¹ 17'57	29 ⁵ 54	18 ⁵ 50	28 ³⁸ 38	13 ¹⁸ 18	28 ²⁰ 20	8 ⁴⁷ 47	20 ⁴⁸ 48	14 ¹⁵ 15	13 ³ 38	28 ⁷ 7	28 ⁵² 52	8 ³² 32	16 ³¹ 31	T 6
W 7	14 58 36	16 ¹ 16'02	14 ¹¹ 12	19 ⁵ 59	29 ⁴³ 43	12 ⁵ 56	28 ¹⁶ 16	8 ⁵⁵ 55	20 ⁵¹ 51	14 ¹⁷ 17	13 ³ 38	28 ⁶ 6	28 ⁴⁸ 48	8 ³⁹ 39	16 ³⁵ 35	W 7
T 8	15 2 32	17 ¹ 14'06	28 ⁴ 46	21 ¹⁰ 10	0 ⁵ 49	12 ³⁴ 34	28 ¹² 12	9 ² 2	20 ⁵⁴ 54	14 ¹⁹ 19	13 ³ 38	28 ^D 6	28 ⁴⁵ 45	8 ⁴⁵ 45	16 ³⁹ 39	T 8
F 9	15 6 29	18 ¹ 12'08	13 ¹¹ 28	22 ² 24	1 ⁵ 54	12 ¹² 12	28 ⁸ 8	9 ¹⁰ 10	20 ⁵⁷ 57	14 ²¹ 21	13 ³ 39	28 ⁶ 6	28 ⁴² 42	8 ⁵² 52	16 ⁴³ 43	F 9
S 10	15 10 25	19 ¹ 10'09	28 ¹² 12	23 ⁴ 40	2 ⁵ 59	11 ⁵ 50	28 ⁴ 4	9 ¹⁷ 17	21 ⁰ 0	14 ²³ 23	13 ³ 39	28 ⁷ 7	28 ³⁹ 39	8 ⁵⁹ 59	16 ⁴⁷ 47	S 10
S 11	15 14 22	20 ⁸ 8'08	12 ³ 52	24 ⁵ 59	4 ⁴ 4	11 ² 28	27 ⁵ 59	9 ²⁵ 25	21 ³ 3	14 ²⁵ 25	13 ³ 39	28 ⁷ 7	28 ³⁶ 36	9 ⁵ 5	16 ⁵¹ 51	S 11
M 12	15 18 18	21 ⁶ 6'06	27 ² 22	26 ² 20	5 ⁹ 9	11 ⁶ 6	27 ⁵⁵ 55	9 ³² 32	21 ⁶ 6	14 ²⁷ 27	13 ³ 39	28 ⁸ 8	28 ³³ 33	9 ¹² 12	16 ⁵⁵ 55	M 12
T 13	15 22 15	22 ⁴ 4'03	11 ³ 39	27 ⁴ 43	6 ¹³ 13	10 ⁴ 45	27 ⁵⁰ 50	9 ⁴⁰ 40	21 ¹⁰ 10	14 ²⁹ 29	13 ³ 39	28 ⁸ 8	28 ²⁹ 29	9 ¹⁹ 19	16 ⁵⁹ 59	T 13
W 14	15 26 11	23 ¹ 1'58	25 ⁴ 40	29 ⁹ 9	7 ¹⁷ 17	10 ²⁴ 24	27 ⁴⁵ 45	9 ⁴⁷ 47	21 ¹³ 13	14 ³⁰ 30	13 ³ 39	28 ^R 8	28 ²⁶ 26	9 ²⁵ 25	17 ³ 3	W 14
T 15	15 30 8	23 ⁵ 59'52	9 ¹¹ 24	0 ⁸ 37	8 ²¹ 21	10 ³ 3	27 ⁴⁰ 40	9 ⁵⁵ 55	21 ¹⁶ 16	14 ³² 32	13 ^R 39	28 ⁸ 8	28 ²³ 23	9 ³² 32	17 ⁷ 7	T 15
F 16	15 34 5	24 ⁵ 57'45	22 ⁵ 50	2 ⁷ 7	9 ²⁵ 25	9 ⁴² 42	27 ³⁵ 35	10 ³ 3	21 ¹⁹ 19	14 ³⁴ 34	13 ³ 39	28 ⁸ 8	28 ²⁰ 20	9 ³⁹ 39	17 ¹¹ 11	F 16
S 17	15 38 1	25 ⁵ 55'37	6 ¹¹ 1	3 ³ 39	10 ² 28	9 ²² 22	27 ²⁹ 29	10 ¹⁰ 10	21 ²³ 23	14 ³⁶ 36	13 ³ 39	28 ⁸ 8	28 ¹⁷ 17	9 ⁴⁶ 46	17 ¹⁵ 15	S 17
S 18	15 41 58	26 ⁵ 53'27	18 ⁵ 56	5 ¹⁴ 14	11 ³ 31	9 ² 2	27 ²⁴ 24	10 ¹⁸ 18	21 ²⁶ 26	14 ³⁸ 38	13 ³ 39	28 ⁸ 8	28 ¹³ 13	9 ⁵² 52	17 ¹⁹ 19	S 18
M 19	15 45 54	27 ⁵ 51'16	1 ⁸ 37	6 ⁵ 50	12 ³⁴ 34	8 ⁴³ 43	27 ¹⁸ 18	10 ²⁶ 26	21 ²⁹ 29	14 ⁴⁰ 40	13 ³ 39	28 ^D 8	28 ¹⁰ 10	9 ⁵⁹ 59	17 ²³ 23	M 19
T 20	15 49 51	28 ⁴ 49'04	14 ⁵ 5	8 ²⁹ 29	13 ³⁷ 37	8 ²⁴ 24	27 ¹² 12	10 ³³ 33	21 ³³ 33	14 ⁴¹ 41	13 ³ 39	28 ⁸ 8	28 ⁷ 7	10 ⁶ 6	17 ²⁷ 27	T 20
W 21	15 53 47	29 ⁴ 46'51	26 ² 23	10 ¹⁰ 10	14 ³⁹ 39	8 ⁶ 6	27 ⁶ 6	10 ⁴¹ 41	21 ³⁶ 36	14 ⁴³ 43	13 ³ 39	28 ^R 8	28 ⁴ 4	10 ¹² 12	17 ³¹ 31	W 21
T 22	15 57 44	0 ¹¹ 44'36	8 ¹¹ 30	11 ⁵ 53	15 ⁴ 41	7 ⁴⁸ 48	27 ⁰ 0	10 ⁴⁹ 49	21 ³⁹ 39	14 ⁴⁵ 45	13 ³ 38	28 ⁸ 8	28 ¹ 1	10 ¹⁹ 19	17 ³⁵ 35	T 22
F 23	16 1 40	1 ⁴ 42'20	20 ³ 30	13 ³ 38	16 ⁴ 42	7 ³¹ 31	26 ⁵ 54	10 ⁵⁶ 56	21 ⁴³ 43	14 ⁴⁶ 46	13 ³ 38	28 ⁷ 7	27 ⁵⁸ 58	10 ²⁶ 26	17 ³⁹ 39	F 23
S 24	16 5 37	2 ⁴ 40'03	2 ⁵ 53	15 ² 26	17 ⁴ 44	7 ¹⁵ 15	26 ⁴ 48	11 ⁴ 4	21 ⁴⁶ 46	14 ⁴⁸ 48	13 ³ 38	28 ⁷ 7	27 ⁵⁴ 54	10 ³² 32	17 ⁴² 42	S 24
S 25	16 9 34	3 ³ 37'44	14 ¹ 13	17 ¹ 15	18 ⁴ 45	6 ⁵ 59	26 ⁴ 42	11 ¹² 12	21 ⁵⁰ 50	14 ⁵⁰ 50	13 ³ 38	28 ⁶ 6	27 ⁵¹ 51	10 ³⁹ 39	17 ⁴⁶ 46	S 25
M 26	16 13 30	4 ³ 35'23	26 ³ 3	19 ⁷ 7	19 ⁴ 45	6 ⁴ 44	26 ³⁵ 35	11 ²⁰ 20	21 ⁵³ 53	14 ⁵¹ 51	13 ³ 37	28 ⁵ 5	27 ⁴⁸ 48	10 ⁴⁶ 46	17 ⁵⁰ 50	M 26
T 27	16 17 27	5 ³ 33'02	7 ¹¹ 56	21 ¹ 1	20 ⁴ 45	6 ³⁰ 30	26 ²⁹ 29	11 ²⁷ 27	21 ⁵⁶ 56	14 ⁵³ 53	13 ³ 37	28 ⁵ 5	27 ⁴⁵ 45	10 ⁵² 52	17 ⁵⁴ 54	T 27
W 28	16 21 23	6 ³ 30'39	19 ⁵ 55	22 ⁵ 57	21 ⁴ 45	6 ¹⁶ 16	26 ²² 22	11 ³⁵ 35	22 ⁰ 0	14 ⁵⁵ 55	13 ³ 37	28 ⁴ 4	27 ⁴² 42	10 ⁵⁹ 59	17 ⁵⁸ 58	W 28
T 29	16 25 20	7 ² 28'14	2 ¹¹ 6	24 ⁵ 55	22 ⁴ 45	6 ³ 3	26 ¹⁵ 15	11 ⁴³ 43	22 ³ 3	14 ⁵⁶ 56	13 ³ 36	28 ^D 3	27 ³⁹ 39	11 ⁶ 6	18 ² 2	T 29
F 30	16 29 16	8 ² 25'48	14 ³ 31	26 ⁵ 55	23 ⁴ 44	5 ⁵ 51	26 ⁸ 8	11 ⁵¹ 51	22 ⁷ 7	14 ⁵⁸ 58	13 ³ 36	28 ⁴ 4	27 ³⁵ 35	11 ¹² 12	18 ⁵ 5	F 30
S 31	16 33 13	9 ¹¹ 23'20	27 ¹¹ 17	28 ⁵ 56	24 ⁵ 43	5 ¹¹ 40	26 ¹ 1	11 ⁵⁹ 59	22 ¹⁰ 10	14 ⁵⁹ 59	13 ³ 36	28 ¹¹ 11	27 ³² 32	11 ¹⁹ 19	18 ⁹ 9	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
T 1	14n57	8n37	5s15	2n54	2s46	25n44	2n29	15s43	0n41	22s54	0n31	20n 9	1s32	23n12	0n 6	4n10	1s30	22s51	6s23	19s46	19s57	19n58	14n51	1s54									
F 2	15 15	4 20	5 13	3 11	2 50	25 49	2 31	15 39	0 39	22 54	0 31	20 10	1 32	23 12	0 6	4 11	1 30	22 51	6 23	19 46	19 57	19 57	14 52	1 54									
S 3	15 33	0s14	4 55	3 29	2 54	25 54	2 33	15 35	0 36	22 54	0 31	20 11	1 32	23 13	0 6	4 12	1 30	22 51	6 24	19 45	19 56	19 56	14 54	1 54									
S 4	15 51	4 56	4 22	3 49	2 57	25 58	2 34	15 31	0 34	22 54	0 31	20 13	1 32	23 13	0 6	4 12	1 30	22 51	6 24	19 45	19 55	19 55	14 55	1 54									
M 5	16 8	9 32	3 33	4 11	3 0	26 1	2 36	15 27	0 31	22 54	0 31	20 14	1 32	23 13	0 6	4 13	1 30	22 51	6 24	19 45	19 55	19 54	14 56	1 54									
T 6	16 25	13 46	2 30	4 34	3 2	26 3	2 38	15 23	0 28	22 54	0 31	20 15	1 32	23 13	0 6	4 14	1 30	22 51	6 24	19 44	19 54	19 53	14 57	1 54									
W 7	16 42	17 19	1 16	4 59	3 3	26 5	2 39	15 18	0 26	22 54	0 31	20 16	1 32	23 14	0 6	4 15	1 30	22 51	6 25	19 44	19 53	19 51	14 58	1 54									
T 8	16 59	19 49	0n 4	5 25	3 3	26 7	2 41	15 14	0 23	22 54	0 31	20 18	1 31	23 14	0 7	4 15	1 30	22 52	6 25	19 44	19 53	19 50	14 59	1 55									
F 9	17 15	21 1	1 24	5 53	3 3	26 8	2 42	15 10	0 20	22 54	0 31	20 19	1 31	23 14	0 7	4 16	1 30	22 52	6 25	19 44	19 52	19 49	15 0	1 55									
S 10	17 31	20 46	2 39	6 22	3 2	26 8	2 44	15 6	0 18	22 54	0 31	20 20	1 31	23 14	0 7	4 17	1 30	22 52	6 25	19 44	19 51	19 48	15 1	1 55									
S 11	17 46	19 6	3 44	6 52	3 1	26 7	2 45	15 2	0 15	22 54	0 31	20 21	1 31	23 14	0 7	4 17	1 30	22 52	6 26	19 44	19 51	19 47	15 2	1 55									
M 12	18 2	16 13	4 33	7 23	2 59	26 6	2 46	14 58	0 12	22 54	0 31	20 23	1 31	23 15	0 7	4 18	1 30	22 52	6 26	19 44	19 50	19 46	15 3	1 55									
T 13	18 17	12 24	5 4	7 55	2 56	26 4	2 47	14 54	0 10	22 54	0 31	20 24	1 31	23 15	0 7	4 19	1 30	22 53	6 26	19 44	19 49	19 45	15 4	1 55									
W 14	18 32	7 59	5 17	8 28	2 53	26 1	2 48	14 50	0 7	22 54	0 31	20 25	1 31	23 15	0 7	4 20	1 31	22 53	6 26	19 45	19 48	19 44	15 5	1 55									
T 15	18 46	3 14	5 11	9 2	2 49	25 58	2 48	14 46	0 4	22 54	0 31	20 26	1 31	23 15	0 7	4 20	1 31	22 53	6 27	19 44	19 48	19 43	15 6	1 55									
F 16	19 0	1n35	4 48	9 37	2 45	25 55	2 49	14 42	0 1	22 54	0 31	20 27	1 31	23 16	0 7	4 21	1 31	22 53	6 27	19 44	19 47	19 41	15 7	1 55									
S 17	19 14	6 13	4 11	10 13	2 40	25 50	2 49	14 38	0s 1	22 54	0 31	20 29	1 30	23 16	0 7	4 22	1 31	22 54	6 27	19 44	19 46	19 40	15 8	1 55									
S 18	19 27	10 31	3 21	10 50	2 35	25 45	2 50	14 34	0 4	22 54	0 31	20 30	1 30	23 16	0 7	4 22	1 31	22 54	6 27	19 44	19 46	19 39	15 9	1 55									
M 19	19 41	14 15	2 22	11 27	2 29	25 40	2 50	14 31	0 7	22 54	0 31	20 31	1 30	23 16	0 7	4 23	1 31	22 54	6 28	19 44	19 45	19 38	15 10	1 55									
T 20	19 53	17 17	1 17	12 5	2 22	25 34	2 50	14 27	0 10	22 54	0 30	20 32	1 30	23 16	0 7	4 24	1 31	22 54	6 28	19 44	19 44	19 37	15 11	1 56									
W 21	20 6	19 30	0 10	12 43	2 15	25 27	2 50	14 24	0 12	22 54	0 30	20 33	1 30	23 17	0 7	4 24	1 31	22 55	6 28	19 44	19 43	19 36	15 12	1 56									
T 22	20 18	20 46	0s57	13 22	2 8	25 20	2 50	14 21	0 15	22 54	0 30	20 35	1 30	23 17	0 7	4 25	1 31	22 55	6 28	19 44	19 43	19 34	15 13	1 56									
F 23	20 30	21 5	2 1	14 1	2 0	25 12	2 50	14 18	0 17	22 54	0 30	20 36	1 30	23 17	0 7	4 25	1 31	22 55	6 28	19 44	19 42	19 33	15 14	1 56									
S 24	20 41	20 26	2 59	14 40	1 52	25 3	2 49	14 15	0 20	22 54	0 30	20 37	1 30	23 17	0 7	4 26	1 31	22 56	6 29	19 44	19 41	19 32	15 15	1 56									
S 25	20 52	18 53	3 49	15 20	1 43	24 45	2 49	14 12	0 23	22 53	0 30	20 38	1 30	23 18	0 7	4 27	1 31	22 56	6 29	19 44	19 41	19 31	15 16	1 56									
M 26	21 3	16 32	4 29	15 59	1 34	24 45	2 48	14 9	0 25	22 53	0 30	20 39	1 30	23 18	0 7	4 27	1 31	22 56	6 29	19 44	19 40	19 30	15 17	1 56									
T 27	21 13	13 29	4 58	16 39	1 25	24 35	2 47	14 7	0 28	22 53	0 30	20 40	1 30	23 18	0 7	4 28	1 31	22 56	6 29	19 44	19 39	19 29	15 18	1 56									
W 28	21 23	9 52	5 14	17 18	1 15	24 25	2 46	14 5	0 30	22 53	0 30	20 41	1 29	23 18	0 7	4 28	1 31	22 57	6 30	19 43	19 38	19 27	15 19	1 56									
T 29	21 33	5 48	5 16	17 57	1 5	24 14	2 45	14 3	0 33	22 53	0 30	20 43	1 29	23 18	0 7	4 29	1 31	22 57	6 30	19 43	19 38	19 26	15 20	1 57									
F 30	21 42	1 25	5 4	18 35	0 54	24 12	2 44	14 1	0 35	22 53	0 30	20 44	1 29	23 19	0 7	4 29	1 31	22 57	6 30	19 43	19 37	19 25	15 21	1 57									
S 31	21n51	3s 9	4s37	19n12	0s44	23n50	2n42	14s 0	0s37	22s53	0n30	20n45	1s29	23n19	0n 7	4n30	1s31	22s58	6s30	19s43	19s36	19n24	15n22	1s57									

ASTRODIENST EPHEMERIS for the year 2031

geocentric

JUNE 2031

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 37 9	10 ^{II} 20'51	10 ^{II} 25	1 ^{II} 0	25 ^{II} 41	5°R30	25°R54	12 ^{II} 6	22 ^{II} 14	15°V 1	13°R35	28 ^{II} 5	27 ^{II} 29	11 ^{II} 26	18 ^{II} 13	S 1
M 2	16 41 6	11°18'21	23°59	3° 6	26°39	5 ^{II} 20	25° ^{II} 47	12°14	22°17	15° 2	13° ^{II} 35	28° 6	27°26	11°32	18°17	M 2
T 3	16 45 3	12°15'50	8 ^{II} 0	5°12	27°36	5°11	25°40	12°22	22°21	15° 4	13°34	28° 7	27°23	11°39	18°21	T 3
W 4	16 48 59	13°13'17	22°25	7°21	28°33	5° 3	25°33	12°30	22°24	15° 5	13°34	28°R 7	27°19	11°46	18°24	W 4
T 5	16 52 56	14°10'43	7 ^{II} 11	9°30	29°30	4°55	25°25	12°38	22°28	15° 6	13°33	28° 7	27°16	11°52	18°28	T 5
F 6	16 56 52	15° 8'09	22°12	11°41	0 ^{II} 26	4°49	25°18	12°45	22°31	15° 8	13°33	28° 6	27°13	11°59	18°32	F 6
S 7	17 0 49	16° 5'33	7 ^{II} 18	13°52	1°21	4°43	25°10	12°53	22°35	15° 9	13°32	28° 5	27°10	12° 6	18°35	S 7
S 8	17 4 45	17° 2'57	22°21	16° 4	2°16	4°38	25° 3	13° 1	22°39	15°10	13°31	28° 3	27° 7	12°13	18°39	S 8
M 9	17 8 42	18° 0'20	7 ^{II} 12	18°16	3°10	4°34	24°55	13° 9	22°42	15°12	13°31	28° 0	27° 4	12°19	18°43	M 9
T 10	17 12 38	18°57'42	21°44	20°29	4° 4	4°31	24°48	13°17	22°46	15°13	13°30	27°58	27° 0	12°26	18°46	T 10
W11	17 16 35	19°55'04	5 ^{II} 53	22°40	4°58	4°29	24°40	13°24	22°49	15°14	13°29	27°56	26°57	12°33	18°50	W11
T 12	17 20 32	20°52'25	19°39	24°51	5°50	4°27	24°33	13°32	22°53	15°15	13°29	27°D56	26°54	12°39	18°53	T 12
F 13	17 24 28	21°49'46	3°V 0	27° 2	6°42	4°D26	24°25	13°40	22°56	15°16	13°28	27°56	26°51	12°46	18°57	F 13
S 14	17 28 25	22°47'07	16° 0	29°11	7°34	4°26	24°17	13°48	23° 0	15°18	13°27	27°57	26°48	12°53	19° 0	S 14
S 15	17 32 21	23°44'27	28°41	1 ^{II} 19	8°24	4°27	24°10	13°55	23° 3	15°19	13°27	27°59	26°45	12°59	19° 4	S 15
M16	17 36 18	24°41'46	11 ^{II} 7	3°26	9°14	4°29	24° 2	14° 3	23° 7	15°20	13°26	28° 0	26°41	13° 6	19° 7	M16
T 17	17 40 14	25°39'05	23°20	5°30	10° 4	4°31	23°54	14°11	23°11	15°21	13°25	28°R 1	26°38	13°13	19°11	T 17
W18	17 44 11	26°36'24	5 ^{II} 24	7°34	10°52	4°34	23°47	14°18	23°14	15°22	13°24	28° 1	26°35	13°19	19°14	W18
T 19	17 48 7	27°33'42	17°22	9°35	11°40	4°38	23°39	14°26	23°18	15°23	13°23	28° 0	26°32	13°26	19°17	T 19
F 20	17 52 4	28°31'00	29°14	11°34	12°27	4°43	23°31	14°34	23°21	15°24	13°22	27°57	26°29	13°33	19°21	F 20
S 21	17 56 1	29°28'17	11 ^{II} 5	13°31	13°13	4°48	23°24	14°41	23°25	15°25	13°22	27°52	26°25	13°39	19°24	S 21
S 22	17 59 57	0 ^{II} 25'34	22°54	15°26	13°59	4°55	23°16	14°49	23°28	15°26	13°21	27°47	26°22	13°46	19°27	S 22
M23	18 3 54	1°22'50	4 ^{II} 46	17°19	14°43	5° 2	23° 9	14°57	23°32	15°26	13°20	27°41	26°19	13°53	19°30	M23
T 24	18 7 50	2°20'06	16°41	19°10	15°27	5° 9	23° 1	15° 4	23°35	15°27	13°19	27°35	26°16	14° 0	19°33	T 24
W25	18 11 47	3°17'21	28°42	20°58	16°10	5°18	22°54	15°12	23°39	15°28	13°18	27°30	26°13	14° 6	19°37	W25
T 26	18 15 43	4°14'35	10 ^{II} 53	22°44	16°51	5°27	22°46	15°19	23°43	15°29	13°17	27°26	26°10	14°13	19°40	T 26
F 27	18 19 40	5°11'49	23°18	24°28	17°32	5°37	22°39	15°27	23°46	15°30	13°16	27°24	26° 6	14°20	19°43	F 27
S 28	18 23 36	6° 9'03	6 ^{II} 0	26°10	18°11	5°47	22°32	15°34	23°50	15°30	13°15	27°D23	26° 3	14°26	19°46	S 28
S 29	18 27 33	7° 6'15	19° 2	27°49	18°49	5°58	22°24	15°42	23°53	15°31	13°14	27°24	26° 0	14°33	19°49	S 29
M30	18 31 30	8°2 3'28	2 ^{II} 29	29°26	19°27	6°10	22° ^{II} 17	15° ^{II} 49	23° ^{II} 57	15° ^{II} 32	13° ^{II} 13	27° ^{II} 25	25° ^{II} 57	14° ^{II} 40	19° ^{II} 52	M30

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	
S 1	22n 0	7s43	3s55	19n49	0s33	23n38	2n41	13s59	0s40	22s53	0n29	20n46	1s29	23n19	0n 7	S 1
M 2	22 8	12 4	2 58	20 24	0 23	23 25	2 39	13 57	0 42	22 53	0 29	20 47	1 29	23 19	0 7	M 2
T 3	22 16	15 54	1 49	20 58	0 12	23 12	2 37	13 57	0 44	22 53	0 29	20 48	1 29	23 19	0 7	T 3
W 4	22 23	18 53	0 32	21 31	0 1	22 58	2 35	13 56	0 47	22 52	0 29	20 49	1 29	23 20	0 7	W 4
T 5	22 30	20 41	0n50	22 2	0n10	22 44	2 32	13 56	0 49	22 52	0 29	20 50	1 29	23 20	0 7	T 5
F 6	22 36	21 3	2 9	22 31	0 20	22 30	2 30	13 56	0 51	22 52	0 29	20 51	1 29	23 20	0 7	F 6
S 7	22 42	19 54	3 20	22 58	0 30	22 15	2 27	13 56	0 53	22 52	0 29	20 52	1 29	23 20	0 7	S 7
S 8	22 48	17 22	4 16	23 22	0 40	22 0	2 24	13 56	0 55	22 52	0 29	20 53	1 29	23 20	0 7	S 8
M 9	22 54	13 43	4 55	23 45	0 50	21 44	2 21	13 56	0 57	22 52	0 29	20 54	1 29	23 21	0 7	M 9
T 10	22 59	9 18	5 13	24 4	0 59	21 28	2 18	13 57	0 59	22 51	0 28	20 55	1 29	23 21	0 7	T 10
W11	23 3	4 30	5 12	24 21	1 7	21 12	2 15	13 58	1 1	22 51	0 28	20 56	1 29	23 21	0 7	W11
T 12	23 7	0n24	4 53	24 35	1 15	20 56	2 11	14 0	1 3	22 51	0 28	20 57	1 29	23 21	0 7	T 12
F 13	23 11	5 9	4 18	24 47	1 23	20 39	2 7	14 1	1 5	22 51	0 28	20 58	1 28	23 21	0 7	F 13
S 14	23 14	9 32	3 31	24 55	1 30	20 22	2 3	14 3	1 7	22 51	0 28	20 59	1 28	23 22	0 7	S 14
S 15	23 17	13 25	2 34	25 1	1 36	20 4	1 59	14 5	1 9	22 50	0 28	21 0	1 28	23 22	0 7	S 15
M16	23 20	16 37	1 32	25 4	1 41	19 47	1 55	14 7	1 10	22 50	0 28	21 1	1 28	23 22	0 7	M16
T 17	23 22	19 1	0 26	25 5	1 46	19 29	1 50	14 9	1 12	22 50	0 28	21 2	1 28	23 22	0 7	T 17
W18	23 23	20 32	0s40	25 2	1 50	19 11	1 45	14 12	1 14	22 50	0 27	21 3	1 28	23 22	0 7	W18
T 19	23 25	21 6	1 44	24 58	1 53	18 53	1 40	14 15	1 16	22 50	0 27	21 4	1 28	23 23	0 7	T 19
F 20	23 26	20 43	2 43	24 51	1 55	18 35	1 35	14 18	1 17	22 49	0 27	21 5	1 28	23 23	0 7	F 20
S 21	23 26	19 25	3 34	24 41	1 57	18 16	1 29	14 21	1 19	22 49	0 27	21 6	1 28	23 23	0 7	S 21
S 22	23 26	17 17	4 16	24 29	1 58	17 58	1 23	14 25	1 20	22 49	0 27	21 7	1 28	23 23	0 7	S 22
M23	23 26	14 26	4 47	24 16	1 58	17 39	1 17	14 29	1 22	22 49	0 27	21 7	1 28	23 23	0 7	M23
T 24	23 25	10 58	5 6	24 0	1 57	17 20	1 11	14 33	1 23	22 48	0 27	21 8	1 28	23 24	0 7	T 24
W25	23 24	7 3	5 11	23 43	1 56	17 1	1 5	14 37	1 25	22 48	0 26	21 9	1 28	23 24	0 7	W25
T 26	23 22	2 49	5 3	23 24	1 54	16 42	0 58	14 41	1 26	22 48	0 26	21 10	1 28	23 24	0 7	T 26
F 27	23 20	1s38	4 40	23 3	1 52	16 23	0 51	14 46	1 27	22 48	0 26	21 11	1 28	23 24	0 7	F 27
S 28	23 17	6 6	4 3	22 41	1 48	16 4	0 44	14 51	1 29	22 47	0 26	21 12	1 28	23 24	0 7	S 28
S 29	23 15	10 26	3 13	22 18	1 44	15 45	0 36	14 55	1 30	22 47	0 26	21 12	1 28	23 24	0 7	S 29
M30	23n11	14s23	2s11	21n54	1n40	15n26	0n28	15s 1	1s31	22s47	0n26	21n13	1s28	23n25	0n 7	M30

Julian Day Number = 2463018.5, Delta T = 69.62 sec

Ecliptic obliquity = 23°26'01, Nutation = 0°00'14, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°10'45, Lahiri = 24°17'45

ASTRODIENST EPHEMERIS for the year 2031

geocentric

JULY 2031

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 35 26	9♂ 0'39	16♂23	1♂ 1	20♂ 3	6♂23	22°R10	15♂57	24♂ 0	15°Y32	13°R12	27♂26	25♂54	14♂46	19♂55	T 1
W 2	18 39 23	9°57'51	0♂43	2°34	20°37	6°36	22♂ 3	16° 4	24° 4	15°33	13°11	27°R26	25°51	14°53	19°58	W 2
T 3	18 43 19	10°55'02	15°28	4° 4	21°11	6°50	21°56	16°11	24° 7	15°33	13° 9	27°25	25°47	15° 0	20° 1	T 3
F 4	18 47 16	11°52'13	0♂32	5°32	21°43	7° 4	21°50	16°19	24°10	15°34	13° 8	27°22	25°44	15° 6	20° 3	F 4
S 5	18 51 12	12°49'24	15°48	6°58	22°13	7°19	21°43	16°26	24°14	15°34	13° 7	27°17	25°41	15°13	20° 6	S 5
S 6	18 55 9	13°46'35	1♂ 4	8°21	22°42	7°35	21°36	16°33	24°17	15°35	13° 6	27°11	25°38	15°20	20° 9	S 6
M 7	18 59 5	14°43'46	16°10	9°42	23°10	7°51	21°30	16°41	24°21	15°35	13° 5	27° 4	25°35	15°26	20°12	M 7
T 8	19 3 2	15°40'57	0♂56	11° 0	23°36	8° 7	21°23	16°48	24°24	15°36	13° 4	26°57	25°31	15°33	20°14	T 8
W 9	19 6 59	16°38'08	15°18	12°16	24° 0	8°25	21°17	16°55	24°27	15°36	13° 3	26°52	25°28	15°40	20°17	W 9
T 10	19 10 55	17°35'20	29°10	13°29	24°23	8°42	21°11	17° 2	24°31	15°36	13° 1	26°49	25°25	15°47	20°19	T 10
F 11	19 14 52	18°32'32	12°Y34	14°40	24°44	9° 1	21° 5	17° 9	24°34	15°36	13° 0	26°47	25°22	15°53	20°22	F 11
S 12	19 18 48	19°29'44	25°32	15°48	25° 3	9°20	20°59	17°16	24°37	15°37	12°59	26°D47	25°19	16° 0	20°24	S 12
S 13	19 22 45	20°26'58	8♂ 8	16°53	25°20	9°39	20°53	17°23	24°41	15°37	12°58	26°48	25°16	16° 7	20°27	S 13
M14	19 26 41	21°24'11	20°26	17°56	25°36	9°59	20°47	17°30	24°44	15°37	12°56	26°49	25°12	16°13	20°29	M14
T 15	19 30 38	22°21'25	2♂32	18°55	25°49	10°19	20°41	17°37	24°47	15°37	12°55	26°R49	25° 9	16°20	20°32	T 15
W16	19 34 34	23°18'40	14°28	19°52	26° 1	10°40	20°36	17°44	24°51	15°37	12°54	26°47	25° 6	16°27	20°34	W16
T 17	19 38 31	24°15'55	26°19	20°45	26°10	11° 1	20°31	17°51	24°54	15°38	12°53	26°43	25° 3	16°33	20°36	T 17
F 18	19 42 28	25°13'11	8♂ 8	21°35	26°17	11°23	20°26	17°57	24°57	15°38	12°51	26°37	25° 0	16°40	20°38	F 18
S 19	19 46 24	26°10'27	19°58	22°21	26°22	11°46	20°21	18° 4	25° 0	15°R38	12°50	26°28	24°57	16°47	20°40	S 19
S 20	19 50 21	27° 7'43	1♂50	23° 4	26°25	12° 8	20°16	18°11	25° 3	15°38	12°49	26°17	24°53	16°53	20°43	S 20
M21	19 54 17	28° 5'00	13°46	23°44	26°R26	12°31	20°11	18°18	25° 6	15°38	12°47	26° 6	24°50	17° 0	20°45	M21
T 22	19 58 14	29° 2'17	25°47	24°19	26°24	12°55	20° 6	18°24	25°10	15°37	12°46	25°55	24°47	17° 7	20°47	T 22
W23	20 2 10	29°59'35	7♂55	24°50	26°20	13°19	20° 2	18°31	25°13	15°37	12°45	25°44	24°44	17°14	20°49	W23
T 24	20 6 7	0♂56'53	20°13	25°18	26°13	13°44	19°58	18°37	25°16	15°37	12°43	25°36	24°41	17°20	20°51	T 24
F 25	20 10 3	1°54'11	2♂41	25°41	26° 4	14° 9	19°54	18°44	25°19	15°37	12°42	25°30	24°37	17°27	20°52	F 25
S 26	20 14 0	2°51'30	15°24	25°59	25°53	14°34	19°50	18°50	25°22	15°37	12°41	25°26	24°34	17°34	20°54	S 26
S 27	20 17 57	3°48'49	28°24	26°13	25°39	15° 0	19°46	18°56	25°25	15°37	12°39	25°D25	24°31	17°40	20°56	S 27
M28	20 21 53	4°46'09	11♂45	26°21	25°23	15°26	19°43	19° 2	25°28	15°36	12°38	25°25	24°28	17°47	20°58	M28
T 29	20 25 50	5°43'29	25°29	26°R25	25° 4	15°52	19°39	19° 9	25°31	15°36	12°37	25°R25	24°25	17°54	20°59	T 29
W30	20 29 46	6°40'49	9♂38	26°24	24°44	16°19	19°36	19°15	25°33	15°36	12°35	25°25	24°22	18° 0	21° 1	W30
T 31	20 33 43	7♂38'10	24♂11	26♂18	24♂21	16♂46	19♂33	19♂21	25♂36	15°Y35	12°34	25♂22	24♂18	18♂ 7	21♂ 2	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	23n 8	17s41	1 s 0	21n28	1n35	15n 7	0n20	15s 6	1s32	22s47	0n26	21n14	1s28	23n25	0n 7	T 1
W 2	23 4	20 0	0n18	21 2	1 29	14 48	0 12	15 11	1 34	22 46	0 25	21 15	1 28	23 25	0 7	W 2
T 3	22 59	21 3	1 36	20 35	1 23	14 29	0 3	15 17	1 35	22 46	0 25	21 16	1 28	23 25	0 7	T 3
F 4	22 54	20 37	2 49	20 7	1 16	14 11	0s 6	15 23	1 36	22 46	0 25	21 16	1 28	23 25	0 7	F 4
S 5	22 49	18 40	3 51	19 38	1 9	13 52	0 15	15 29	1 37	22 46	0 25	21 17	1 28	23 25	0 7	S 5
S 6	22 43	15 25	4 37	19 9	1 1	13 34	0 24	15 35	1 38	22 45	0 25	21 18	1 28	23 26	0 7	S 6
M 7	22 37	11 10	5 2	18 40	0 53	13 16	0 34	15 41	1 39	22 45	0 25	21 19	1 28	23 26	0 7	M 7
T 8	22 31	6 21	5 7	18 10	0 44	12 58	0 44	15 48	1 40	22 45	0 24	21 19	1 28	23 26	0 7	T 8
W 9	22 24	1 18	4 52	17 40	0 35	12 40	0 54	15 54	1 41	22 45	0 24	21 20	1 28	23 26	0 7	W 9
T 10	22 17	3n39	4 20	17 10	0 25	12 22	1 5	16 1	1 42	22 44	0 24	21 21	1 28	23 26	0 7	T 10
F 11	22 9	8 16	3 35	16 40	0 15	12 5	1 16	16 8	1 43	22 44	0 24	21 21	1 28	23 26	0 7	F 11
S 12	22 1	12 21	2 40	16 10	0 4	11 48	1 27	16 15	1 44	22 44	0 24	21 22	1 28	23 27	0 7	S 12
S 13	21 53	15 46	1 39	15 40	0s 7	11 32	1 38	16 22	1 45	22 44	0 24	21 23	1 28	23 27	0 7	S 13
M14	21 44	18 24	0 34	15 10	0 18	11 16	1 50	16 29	1 46	22 43	0 23	21 23	1 28	23 27	0 7	M14
T 15	21 35	20 10	0s31	14 41	0 30	11 0	2 2	16 36	1 47	22 43	0 23	21 24	1 28	23 27	0 7	T 15
W16	21 25	20 59	1 33	14 12	0 54	10 45	2 14	16 43	1 48	22 43	0 23	21 24	1 28	23 27	0 7	W16
T 17	21 15	20 52	2 31	13 43	0 42	10 30	2 26	16 51	1 48	22 43	0 23	21 25	1 28	23 27	0 7	T 17
F 18	21 5	19 49	3 22	13 15	1 7	10 15	2 39	16 58	1 49	22 43	0 23	21 26	1 28	23 27	0 7	F 18
S 19	20 55	17 55	4 5	12 48	1 20	10 2	2 52	17 6	1 50	22 42	0 23	21 26	1 28	23 27	0 7	S 19
S 20	20 44	15 15	4 36	12 22	1 33	9 48	3 5	17 14	1 51	22 42	0 22	21 27	1 28	23 28	0 7	S 20
M21	20 32	11 57	4 56	11 57	1 46	9 36	3 18	17 22	1 51	22 42	0 22	21 27	1 28	23 28	0 7	M21
T 22	20 21	8 10	5 3	11 32	1 59	9 24	3 32	17 29	1 52	22 42	0 22	21 28	1 28	23 28	0 7	T 22
W23	20 9	4 1	4 56	11 9	2 13	9 12	3 45	17 37	1 53	22 42	0 22	21 28	1 28	23 28	0 7	W23
T 24	19 57	0s21	4 36	10 48	2 26	9 2	3 59	17 45	1 53	22 42	0 22	21 29	1 28	23 28	0 7	T 24
F 25	19 44	4 46	4 2	10 27	2 39	8 52	4 13	17 54	1 54	22 42	0 21	21 29	1 28	23 28	0 7	F 25
S 26	19 31	9 4	3 16	10 9	2 53	8 42	4 26	18 2	1 55	22 41	0 21	21 30	1 28	23 28	0 7	S 26
S 27	19 18	13 3	2 18	9 52	3 6	8 34	4 40	18 10	1 55	22 41	0 21	21 30	1 28	23 28	0 7	S 27
M28	19 4	16 30	1 12	9 36	3 19	8 26	4 54	18 18	1 56	22 41	0 21	21 31	1 28	23 29	0 7	M28
T 29	18 50	19 7	0n 0	9 23	3 32	8 20	5 7	18 26	1 56	22 41	0 21	21 31	1 28	23 29	0 7	T 29
W30	18 36	20 39	1 15	9 12	3 44	8 14	5 21	18 35	1 57	22 41	0 21	21 32	1 28	23 29	0 7	W30
T 31	18n21	20s52	2n26	9n 3	3s55	8n 9	5s34	18s43	1s57	22s41	0n20	21n32	1s28	23n29	0n 7	T 31

Julian Day Number = 2463048.5, Delta T = 69.64 sec

Ecliptic obliquity = 23°26'01, Nutation = 0°00'15, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 25°10'49, Lahiri = 24°17'49

ASTRODIENST EPHEMERIS for the year 2031

geocentric

AUGUST 2031

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	20 37 39	8♂35'32	9♂5	26°R 7	23°R56	17♂14	19°R30	19♂27	25♂39	15°R35	12°R33	25°R17	24♂15	18♂14	21♂4	F 1
S 2	20 41 36	9°32'54	24°14	25♂50	23♂29	17°42	19♂27	19°33	25°42	15°V35	12°≈31	25♂9	24°12	18°21	21°5	S 2
S 3	20 45 33	10°30'17	9≈28	25°29	23°0	18°10	19°25	19°39	25°45	15°34	12°30	25°0	24°9	18°27	21°7	S 3
M 4	20 49 29	11°27'41	24°35	25°2	22°29	18°39	19°22	19°45	25°48	15°34	12°29	24°49	24°6	18°34	21°8	M 4
T 5	20 53 26	12°25'06	9♂27	24°31	21°57	19°8	19°20	19°50	25°50	15°33	12°27	24°39	24°3	18°41	21°9	T 5
W 6	20 57 22	13°22'32	23°55	23°56	21°23	19°37	19°18	19°56	25°53	15°33	12°26	24°30	23°59	18°47	21°11	W 6
T 7	21 1 19	14°19'59	7♂54	23°17	20°48	20°7	19°17	20°2	25°56	15°32	12°24	24°24	23°56	18°54	21°12	T 7
F 8	21 5 15	15°17'27	21°23	22°34	20°13	20°36	19°15	20°7	25°58	15°31	12°23	24°20	23°53	19°1	21°13	F 8
S 9	21 9 12	16°14'56	4♂24	21°49	19°36	21°7	19°13	20°13	26°1	15°31	12°22	24°18	23°50	19°7	21°14	S 9
S 10	21 13 8	17°12'27	17°1	21°2	18°59	21°37	19°12	20°18	26°3	15°30	12°20	24°18	23°47	19°14	21°15	S 10
M 11	21 17 5	18°9'59	29°19	20°14	18°22	22°8	19°11	20°24	26°6	15°29	12°19	24°18	23°43	19°21	21°16	M 11
T 12	21 21 1	19°7'33	11♂22	19°26	17°45	22°39	19°10	20°29	26°8	15°29	12°18	24°17	23°40	19°28	21°17	T 12
W 13	21 24 58	20°5'08	23°16	18°38	17°7	23°10	19°10	20°34	26°11	15°28	12°16	24°15	23°37	19°34	21°17	W 13
T 14	21 28 55	21°2'45	5♂5	17°51	16°31	23°42	19°9	20°39	26°13	15°27	12°15	24°10	23°34	19°41	21°18	T 14
F 15	21 32 51	22°0'23	16°54	17°8	15°55	24°14	19°9	20°44	26°15	15°26	12°14	24°2	23°31	19°48	21°19	F 15
S 16	21 36 48	22°58'02	28°46	16°27	15°20	24°46	19°D 9	20°49	26°18	15°25	12°12	23°51	23°28	19°54	21°20	S 16
S 17	21 40 44	23°55'42	10♂43	15°51	14°45	25°19	19°9	20°54	26°20	15°25	12°11	23°38	23°24	20°1	21°20	S 17
M 18	21 44 41	24°53'24	22°47	15°20	14°13	25°52	19°9	20°59	26°22	15°24	12°10	23°25	23°21	20°8	21°21	M 18
T 19	21 48 37	25°51'07	4♂58	14°54	13°41	26°25	19°9	21°4	26°25	15°23	12°8	23°11	23°18	20°14	21°21	T 19
W 20	21 52 34	26°48'52	17°18	14°35	13°12	26°58	19°10	21°9	26°27	15°22	12°7	22°58	23°15	20°21	21°22	W 20
T 21	21 56 30	27°46'37	29°48	14°23	12°44	27°32	19°11	21°13	26°29	15°21	12°6	22°48	23°12	20°28	21°22	T 21
F 22	22 0 27	28°44'24	12♂28	14°D18	12°18	28°5	19°12	21°18	26°31	15°20	12°4	22°40	23°8	20°34	21°22	F 22
S 23	22 4 24	29°42'12	25°20	14°20	11°54	28°39	19°13	21°22	26°33	15°19	12°3	22°36	23°5	20°41	21°22	S 23
S 24	22 8 20	0♂40'01	8♂26	14°30	11°32	29°14	19°14	21°26	26°35	15°18	12°2	22°33	23°2	20°48	21°23	S 24
M 25	22 12 17	1°37'52	21°47	14°48	11°13	29°48	19°16	21°31	26°37	15°17	12°0	22°D33	22°59	20°55	21°23	M 25
T 26	22 16 13	2°35'44	5♂27	15°14	10°56	0♂23	19°18	21°35	26°39	15°15	11°59	22°R33	22°56	21°1	21°R23	T 26
W 27	22 20 10	3°33'37	19°26	15°48	10°41	0°58	19°19	21°39	26°41	15°14	11°58	22°32	22°53	21°8	21°23	W 27
T 28	22 24 6	4°31'31	3♂44	16°29	10°28	1°33	19°22	21°43	26°42	15°13	11°57	22°30	22°49	21°15	21°23	T 28
F 29	22 28 3	5°29'26	18°21	17°18	10°18	2°9	19°24	21°47	26°44	15°12	11°55	22°25	22°46	21°21	21°23	F 29
S 30	22 31 59	6°27'23	3≈11	18°14	10°10	2°44	19°26	21°51	26°46	15°11	11°54	22°17	22°43	21°28	21°22	S 30
S 31	22 35 56	7♂25'21	18≈7	19♂16	10♂5	3♂20	19♂29	21♂54	26♂48	15°V10	11≈53	22♂8	22♂40	21≈35	21♂22	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	18n 7	19s38	3n30	8n57	4s 6	8n 4	5s47	18s51	1s58	22s41	0n20	21n33	1s28	23n29	0n 7	F 1
S 2	17 51	17 1	4 19	8 53	4 17	8 1	6 0	19 0	1 58	22 41	0 20	21 33	1 29	23 29	0 7	S 2
S 3	17 36	13 13	4 51	8 51	4 26	7 59	6 12	19 8	1 59	22 41	0 20	21 33	1 29	23 29	0 7	S 3
M 4	17 20	8 35	5 1	8 52	4 34	7 57	6 24	19 17	1 59	22 41	0 20	21 34	1 29	23 29	0 7	M 4
T 5	17 4	3 31	4 52	8 56	4 41	7 57	6 35	19 25	2 0	22 41	0 20	21 34	1 29	23 29	0 7	T 5
W 6	16 48	1n37	4 23	9 2	4 47	7 57	6 46	19 33	2 0	22 41	0 19	21 35	1 29	23 30	0 7	W 6
T 7	16 32	6 29	3 39	9 11	4 51	7 58	6 57	19 42	2 0	22 41	0 19	21 35	1 29	23 30	0 7	T 7
F 8	16 15	10 53	2 45	9 22	4 53	8 0	7 6	19 50	2 1	22 41	0 19	21 35	1 29	23 30	0 7	F 8
S 9	15 58	14 36	1 43	9 35	4 54	8 2	7 15	19 59	2 1	22 41	0 19	21 36	1 29	23 30	0 7	S 9
S 10	15 40	17 32	0 39	9 51	4 53	8 6	7 23	20 7	2 1	22 41	0 19	21 36	1 29	23 30	0 7	S 10
M 11	15 23	19 34	0s27	10 9	4 50	8 10	7 31	20 15	2 2	22 41	0 18	21 36	1 29	23 30	0 7	M 11
T 12	15 5	20 40	1 29	10 28	4 45	8 15	7 37	20 24	2 2	22 41	0 18	21 37	1 29	23 30	0 7	T 12
W 13	14 47	20 49	2 27	10 49	4 39	8 20	7 43	20 32	2 2	22 41	0 18	21 37	1 29	23 30	0 7	W 13
T 14	14 29	20 3	3 18	11 11	4 30	8 26	7 48	20 40	2 3	22 42	0 18	21 37	1 29	23 30	0 7	T 14
F 15	14 10	18 24	4 0	11 34	4 20	8 32	7 52	20 49	2 3	22 42	0 18	21 38	1 29	23 30	0 8	F 15
S 16	13 51	15 58	4 32	11 57	4 9	8 39	7 55	20 57	2 3	22 42	0 18	21 38	1 29	23 30	0 8	S 16
S 17	13 33	12 51	4 52	12 20	3 56	8 47	7 58	21 5	2 3	22 42	0 17	21 38	1 29	23 31	0 8	S 17
M 18	13 13	9 12	5 0	12 43	3 41	8 54	7 59	21 13	2 4	22 42	0 17	21 38	1 29	23 31	0 8	M 18
T 19	12 54	5 8	4 54	13 5	3 26	9 2	8 0	21 21	2 4	22 42	0 17	21 39	1 30	23 31	0 8	T 19
W 20	12 34	0 49	4 34	13 26	3 9	9 11	8 0	21 29	2 4	22 43	0 17	21 39	1 30	23 31	0 8	W 20
T 21	12 15	3s36	4 0	13 46	2 52	9 19	7 59	21 37	2 4	22 43	0 17	21 39	1 30	23 31	0 8	T 21
F 22	11 55	7 55	3 15	14 4	2 35	9 28	7 57	21 45	2 4	22 43	0 17	21 39	1 30	23 31	0 8	F 22
S 23	11 34	11 57	2 19	14 20	2 17	9 37	7 55	21 53	2 5	22 43	0 16	21 40	1 30	23 31	0 8	S 23
S 24	11 14	15 29	1 14	14 35	1 59	9 45	7 52	22 1	2 5	22 44	0 16	21 40	1 30	23 31	0 8	S 24
M 25	10 54	18 16	0 4	14 47	1 41	9 54	7 48	22 8	2 5	22 44	0 16	21 40	1 30	23 31	0 8	M 25
T 26	10 33	20 6	1n 8	14 56	1 23	10 3	7 44	22 16	2 5	22 44	0 16	21 40	1 30	23 31	0 8	T 26
W 27	10 12	20 44	2 17	15 3	1 5	10 11	7 39	22 23	2 5	22 45	0 16	21 40	1 30	23 31	0 8	W 27
T 28	9 51	20 3	3 20	15 7	0 48	10 20	7 33	22 31	2 5	22 45	0 16	21 40	1 30	23 31	0 8	T 28
F 29	9 30	18 3	4 10	15 8	0 32	10 28	7 28	22 38	2 5	22 45	0 15	21 41	1 30	23 31	0 8	F 29
S 30	9 8	14 49	4 45	15 6	0 16	10 36	7 21	22 45	2 5	22 46	0 15	21 41	1 30	23 31	0 8	S 30
S 31	8n47	10s37	5n 1	15n 1	0s 1	10n44	7s15	22s52	2s 5	22s46	0n15	21n41	1s30	23n31	0n 8	S 31

Julian Day Number = 2463079.5, Delta T = 69.66 sec
 Ecliptic obliquity = 23°26'01, Nutation = 0°00'15, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 25°10'53, Lahiri = 24°17'54

ASTRODIENST EPHEMERIS for the year 2031

geocentric

SEPTEMBER 2031

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	22 39 53	8♍23'20	3♈1	20♏26	10♍2	3♈56	19♍32	21♏58	26♏49	15♍8	11♍52	21♍57	22♏37	21♏42	21♍22	M 1
T 2	22 43 49	9°21'21	17°43	21°42	10°D 1	4°33	19°35	22° 2	26°51	15°Y 7	11°≈51	21♏47	22°34	21°48	21♏21	T 2
W 3	22 47 46	10°19'24	2°Y 6	23° 3	10♏3	5° 9	19°38	22° 5	26°52	15° 6	11°49	21°38	22°30	21°55	21°21	W 3
T 4	22 51 42	11°17'29	16° 3	24°30	10° 7	5°46	19°41	22° 8	26°54	15° 5	11°48	21°31	22°27	22° 2	21°20	T 4
F 5	22 55 39	12°15'35	29°34	26° 2	10°13	6°22	19°45	22°12	26°55	15° 3	11°47	21°27	22°24	22° 8	21°20	F 5
S 6	22 59 35	13°13'43	12♏38	27°38	10°22	7° 0	19°49	22°15	26°57	15° 2	11°46	21°25	22°21	22°15	21°19	S 6
S 7	23 3 32	14°11'54	25°18	29°18	10°33	7°37	19°52	22°18	26°58	15° 0	11°45	21°D24	22°18	22°22	21°19	S 7
M 8	23 7 28	15°10'06	7♏38	1♍1	10°45	8°14	19°56	22°21	27° 0	14°59	11°44	21°25	22°14	22°28	21°18	M 8
T 9	23 11 25	16° 8'21	19°43	2°46	11° 0	8°52	20° 1	22°24	27° 1	14°58	11°43	21°R25	22°11	22°35	21°17	T 9
W10	23 15 22	17° 6'37	1♏38	4°35	11°17	9°30	20° 5	22°26	27° 2	14°56	11°42	21°24	22° 8	22°42	21°16	W10
T 11	23 19 18	18° 4'56	13°28	6°24	11°36	10° 8	20°10	22°29	27° 3	14°55	11°41	21°21	22° 5	22°49	21°15	T 11
F 12	23 23 15	19° 3'16	25°19	8°16	11°57	10°46	20°14	22°32	27° 4	14°53	11°40	21°15	22° 2	22°55	21°14	F 12
S 13	23 27 11	20° 1'39	7♏14	10° 8	12°19	11°24	20°19	22°34	27° 5	14°52	11°39	21° 7	21°59	23° 2	21°13	S 13
S 14	23 31 8	21° 0'03	19°17	12° 1	12°43	12° 3	20°24	22°37	27° 6	14°50	11°38	20°57	21°55	23° 9	21°12	S 14
M15	23 35 4	21°58'30	1♍29	13°55	13° 9	12°41	20°29	22°39	27° 7	14°49	11°37	20°47	21°52	23°15	21°11	M15
T 16	23 39 1	22°56'58	13°53	15°48	13°37	13°20	20°35	22°41	27° 8	14°47	11°36	20°36	21°49	23°22	21°10	T 16
W17	23 42 57	23°55'28	26°28	17°42	14° 6	13°59	20°40	22°43	27° 9	14°46	11°35	20°26	21°46	23°29	21° 9	W17
T 18	23 46 54	24°54'01	9♏15	19°35	14°36	14°38	20°46	22°45	27°10	14°44	11°34	20°17	21°43	23°35	21° 8	T 18
F 19	23 50 50	25°52'35	22°14	21°28	15° 8	15°18	20°52	22°47	27°11	14°43	11°33	20°12	21°40	23°42	21° 6	F 19
S 20	23 54 47	26°51'10	5♏25	23°21	15°42	15°57	20°58	22°49	27°11	14°41	11°32	20° 8	21°36	23°49	21° 5	S 20
S 21	23 58 44	27°49'48	18°47	25°12	16°16	16°37	21° 4	22°50	27°12	14°40	11°31	20°D 7	21°33	23°56	21° 3	S 21
M22	0 2 40	28°48'28	2♈20	27° 3	16°53	17°16	21°10	22°52	27°13	14°38	11°30	20° 8	21°30	24° 2	21° 2	M22
T 23	0 6 37	29°47'09	16° 5	28°53	17°30	17°56	21°17	22°53	27°13	14°36	11°29	20° 9	21°27	24° 9	21° 0	T 23
W24	0 10 33	0♏45'52	0♏ 2	0♏43	18° 8	18°37	21°23	22°54	27°14	14°35	11°29	20°R10	21°24	24°16	20°59	W24
T 25	0 14 30	1°44'36	14°12	2°31	18°48	19°17	21°30	22°56	27°14	14°33	11°28	20° 9	21°20	24°22	20°57	T 25
F 26	0 18 26	2°43'22	28°31	4°19	19°29	19°57	21°37	22°57	27°15	14°32	11°27	20° 6	21°17	24°29	20°55	F 26
S 27	0 22 23	3°42'10	12≈59	6° 6	20°11	20°38	21°44	22°58	27°15	14°30	11°26	20° 2	21°14	24°36	20°54	S 27
S 28	0 26 19	4°41'00	27°29	7°51	20°54	21°18	21°51	22°59	27°15	14°28	11°26	19°56	21°11	24°43	20°52	S 28
M29	0 30 16	5°39'51	11♈57	9°36	21°38	21°59	21°59	22°59	27°15	14°27	11°25	19°49	21° 8	24°49	20°50	M29
T 30	0 34 13	6≈38'44	26♈16	11≈20	22♏22	22♈40	22≈ 6	23♏ 0	27♏16	14°Y25	11≈24	19♏42	21♏ 5	24≈56	20♏48	T 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	8n25	5s48	4n56	14n53	0n13	10n51	7s 8	22s59	2s 5	22s46	0n15	21n41	1s30	23n31	0n 8	4n29	1s36	23s39	6s42	18s15	18s25	17n19	15n57	2s14	
T 2	8 4	0 41	4 32	14 41	0 27	10 59	7 0	23 6	2 5	22 47	0 15	21 41	1 31	23 32	0 8	4 28	1 36	23 40	6 42	18 12	18 24	17 18	15 56	2 14	
W 3	7 42	4n21	3 50	14 27	0 39	11 5	6 53	23 12	2 5	22 47	0 15	21 41	1 31	23 32	0 8	4 28	1 36	23 40	6 42	18 10	18 24	17 16	15 56	2 14	
T 4	7 20	9 1	2 56	14 8	0 50	11 12	6 45	23 19	2 5	22 48	0 14	21 41	1 31	23 32	0 8	4 27	1 36	23 40	6 42	18 8	18 23	17 15	15 56	2 14	
F 5	6 58	13 5	1 53	13 47	1 1	11 18	6 37	23 26	2 5	22 48	0 14	21 42	1 31	23 32	0 8	4 27	1 36	23 41	6 42	18 7	18 22	17 13	15 55	2 15	
S 6	6 35	16 22	0 47	13 23	1 10	11 24	6 28	23 32	2 5	22 48	0 14	21 42	1 31	23 32	0 8	4 26	1 36	23 41	6 42	18 7	18 21	17 12	15 55	2 15	
S 7	6 13	18 45	0s21	12 56	1 18	11 29	6 20	23 38	2 5	22 49	0 14	21 42	1 31	23 32	0 8	4 26	1 36	23 41	6 42	18 7	18 20	17 10	15 55	2 15	
M 8	5 51	20 10	1 25	12 27	1 25	11 34	6 11	23 44	2 5	22 49	0 14	21 42	1 31	23 32	0 8	4 25	1 36	23 42	6 42	18 7	18 20	17 9	15 54	2 15	
T 9	5 28	20 38	2 25	11 54	1 32	11 39	6 3	23 50	2 5	22 50	0 14	21 42	1 31	23 32	0 8	4 25	1 36	23 42	6 42	18 7	18 19	17 7	15 54	2 15	
W10	5 5	20 8	3 17	11 20	1 37	11 43	5 54	23 56	2 5	22 50	0 14	21 42	1 31	23 32	0 8	4 24	1 36	23 42	6 42	18 6	18 18	17 6	15 53	2 16	
T 11	4 43	18 46	4 1	10 43	1 41	11 46	5 45	24 1	2 5	22 51	0 13	21 42	1 31	23 32	0 8	4 23	1 36	23 42	6 42	18 6	18 17	17 4	15 53	2 16	
F 12	4 20	16 35	4 34	10 5	1 44	11 49	5 36	24 7	2 5	22 51	0 13	21 42	1 31	23 32	0 8	4 23	1 36	23 43	6 42	18 4	18 16	17 3	15 53	2 16	
S 13	3 57	13 42	4 55	9 25	1 47	11 52	5 27	24 12	2 5	22 52	0 13	21 42	1 32	23 32	0 8	4 22	1 37	23 43	6 42	18 2	18 15	17 1	15 52	2 16	
S 14	3 34	10 13	5 4	8 43	1 48	11 54	5 18	24 17	2 5	22 52	0 13	21 42	1 32	23 32	0 8	4 22	1 37	23 43	6 42	17 59	18 15	17 0	15 52	2 17	
M15	3 11	6 17	4 59	8 0	1 49	11 56	5 9	24 22	2 5	22 53	0 13	21 42	1 32	23 32	0 8	4 21	1 37	23 43	6 42	17 57	18 14	16 58	15 51	2 17	
T 16	2 48	2 2	4 40	7 16	1 49	11 57	4 59	24 27	2 4	22 53	0 13	21 42	1 32	23 32	0 8	4 20	1 37	23 44	6 42	17 54	18 13	16 57	15 51	2 17	
W17	2 25	2s22	4 7	6 31	1 48	11 58	4 50	24 32	2 4	22 54	0 12	21 42	1 32	23 32	0 8	4 20	1 37	23 44	6 42	17 51	18 12	16 55	15 50	2 17	
T 18	2 2	6 45	3 21	5 45	1 47	11 58	4 41	24 36	2 4	22 54	0 12	21 42	1 32	23 32	0 8	4 19	1 37	23 44	6 42	17 49	18 11	16 54	15 50	2 17	
F 19	1 38	10 53	2 24	4 59	1 45	11 57	4 32	24 41	2 4	22 55	0 12	21 42	1 32	23 32	0 8	4 19	1 37	23 44	6 42	17 47	18 10	16 52	15 49	2 18	
S 20	1 15	14 33	1 18	4 12	1 42	11 56	4 23	24 45	2 4	22 56	0 12	21 42	1 32	23 32	0 8	4 18	1 37	23 44	6 42	17 46	18 10	16 51	15 48	2 18	
S 21	0 52	17 31	0 7	3 25	1 39	11 55	4 14	24 49	2 4	22 56	0 12	21 42	1 32	23 32	0 8	4 17	1 37	23 45	6 42	17 46	18 9	16 49	15 48	2 18	
M22	0 28	19 33	1n 5	2 38	1 36	11 53	4 5	24 52	2 3	22 57	0 12	21 42	1 32	23 32	0 8	4 17	1 37	23 45	6 41	17 46	18 8	16 48	15 47	2 18	
T 23	0 5	20 28	2 15	1 51	1 32	11 50	3 56	24 56	2 3	22 57	0 12	21 42	1 32	23 32	0 8	4 16	1 37	23 45	6 41	17 47	18 7	16 46	15 47	2 18	
W24	0s18	20 8	3 18	1 3	1 27	11 47	3 47	24 59	2 3	22 58	0 11	21 42	1 33	23 32	0 8	4 15	1 37	23 45	6 41	17 47	18 6	16 45	15 46	2 19	
T 25	0 42	18 32	4 10	0 16	1 23	11 43	3 38	25 2	2 3	22 58	0 11	21 42	1 33	23 32	0 8	4 15	1 37	23 45	6 41	17 47	18 6	16 43	15 45	2 19	
F 26	1 5	15 46	4 47	0s31	1 18	11 39	3 30	25 5	2 2	22 59	0 11	21 42	1 33	23 32	0 8	4 14	1 37	23 45	6 41	17 46	18 5	16 42	15 45	2 19	
S 27	1 28	12 1	5 6	1 19	1 13	11 34	3 21	25 8	2 2	23 0	0 11	21 42	1 33	23 32	0 8	4 14	1 37	23 46	6 41	17 45	18 4	16 40	15 44	2 19	
S 28	1 52	7 33	5 5	2 5	1 7	11 29	3 12	25 11	2 2	23 0	0 11	21 42	1 33	23 33	0 8	4 13	1 37	23 46	6 41	17 43	18 3	16 39	15 44	2 19	
M29	2 15	2 40	4 46	2 52	1 1	11 23	3 4	25 13	2 2	23 1	0 11	21 42	1 33	23 33	0 8	4 12	1 37	23 46	6 41	17 41	18 2	16 37	15 43	2 20	
T 30	2s38	2n19	4n 8	3s38	0n55	11n17	2s55	25s15	2s 1	23s 1	0n11	21n42	1s33	23n33	0n 8	4n12	1s37	23s46	6s41	17s39	18s 1	16n35	15n42	2s20	

ASTRODIENST EPHEMERIS for the year 2031
geocentric

OCTOBER 2031

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	0 38 9	7♂37'39	10♀21	13♂3	23♂8	23♂21	22♂14	23♂1	27♂16	14°R23	11°R24	19°R36	21♂1	25♂3	20°R46	W 1
T 2	0 42 6	8°36'36	24° 6	14°45	23°55	24° 2	22°22	23° 1	27°16	14°Y22	11°R23	19♂31	20°58	25° 9	20♂44	T 2
F 3	0 46 2	9°35'36	7♂30	16°27	24°43	24°43	22°29	23° 1	27°R16	14°20	11°22	19°29	20°55	25°16	20°42	F 3
S 4	0 49 59	10°34'37	20°31	18° 7	25°31	25°25	22°37	23° 2	27°16	14°18	11°22	19°D28	20°52	25°23	20°40	S 4
S 5	0 53 55	11°33'41	3♂11	19°47	26°21	26° 6	22°46	23°R 2	27°16	14°17	11°21	19°29	20°49	25°29	20°38	S 5
M 6	0 57 52	12°32'47	15°32	21°25	27°11	26°48	22°54	23° 2	27°16	14°15	11°21	19°30	20°45	25°36	20°35	M 6
T 7	1 1 48	13°31'55	27°39	23° 3	28° 2	27°30	23° 2	23° 2	27°15	14°13	11°20	19°32	20°42	25°43	20°33	T 7
W 8	1 5 45	14°31'06	9♂36	24°40	28°53	28°12	23°11	23° 1	27°15	14°12	11°20	19°R33	20°39	25°50	20°31	W 8
T 9	1 9 42	15°30'19	21°28	26°17	29°46	28°54	23°19	23° 1	27°15	14°10	11°19	19°33	20°36	25°56	20°29	T 9
F 10	1 13 38	16°29'34	3♂20	27°52	0♂39	29°36	23°28	23° 1	27°15	14° 8	11°19	19°32	20°33	26° 3	20°26	F 10
S 11	1 17 35	17°28'52	15°17	29°27	1°32	0♂18	23°37	23° 0	27°14	14° 7	11°19	19°29	20°30	26°10	20°24	S 11
S 12	1 21 31	18°28'11	27°23	1♂1	2°27	1° 0	23°46	22°59	27°14	14° 5	11°18	19°25	20°26	26°16	20°21	S 12
M13	1 25 28	19°27'33	9♂42	2°35	3°22	1°43	23°55	22°58	27°13	14° 3	11°18	19°20	20°23	26°23	20°19	M13
T 14	1 29 24	20°26'57	22°15	4° 8	4°17	2°25	24° 5	22°58	27°13	14° 2	11°18	19°15	20°20	26°30	20°16	T 14
W15	1 33 21	21°26'24	5♂4	5°40	5°13	3° 8	24°14	22°57	27°12	14° 0	11°17	19°10	20°17	26°37	20°14	W15
T 16	1 37 17	22°25'52	18°10	7°11	6°10	3°51	24°24	22°55	27°12	13°58	11°17	19° 6	20°14	26°43	20°11	T 16
F 17	1 41 14	23°25'23	1♂31	8°42	7° 7	4°34	24°33	22°54	27°11	13°57	11°17	19° 4	20°11	26°50	20° 9	F 17
S 18	1 45 10	24°24'56	15° 6	10°12	8° 5	5°17	24°43	22°53	27°10	13°55	11°17	19°D 3	20° 7	26°57	20° 6	S 18
S 19	1 49 7	25°24'30	28°53	11°41	9° 3	6° 0	24°53	22°51	27° 9	13°53	11°16	19° 3	20° 4	27° 3	20° 3	S 19
M20	1 53 4	26°24'07	12♂49	13° 9	10° 2	6°43	25° 3	22°50	27° 8	13°52	11°16	19° 4	20° 1	27°10	20° 1	M20
T 21	1 57 0	27°23'45	26°53	14°37	11° 1	7°26	25°13	22°48	27° 8	13°50	11°16	19° 6	19°58	27°17	19°58	T 21
W22	2 0 57	28°23'25	11♂1	16° 5	12° 0	8° 9	25°23	22°47	27° 7	13°49	11°16	19° 7	19°55	27°24	19°55	W22
T 23	2 4 53	29°23'07	25°12	17°31	13° 0	8°53	25°33	22°45	27° 6	13°47	11°16	19°R 8	19°51	27°30	19°52	T 23
F 24	2 8 50	0♂22'50	9♂24	18°57	14° 1	9°36	25°44	22°43	27° 5	13°45	11°16	19° 7	19°48	27°37	19°50	F 24
S 25	2 12 46	1°22'35	23°34	20°22	15° 2	10°20	25°54	22°41	27° 3	13°44	11°D16	19° 6	19°45	27°44	19°47	S 25
S 26	2 16 43	2°22'22	7♂41	21°46	16° 3	11° 4	26° 5	22°38	27° 2	13°42	11°16	19° 5	19°42	27°50	19°44	S 26
M27	2 20 39	3°22'10	21°40	23° 9	17° 5	11°48	26°15	22°36	27° 1	13°41	11°16	19° 2	19°39	27°57	19°41	M27
T 28	2 24 36	4°22'00	5♀30	24°32	18° 7	12°31	26°26	22°34	27° 0	13°39	11°16	19° 0	19°36	28° 4	19°38	T 28
W29	2 28 33	5°21'52	19° 8	25°53	19° 9	13°15	26°37	22°31	26°59	13°38	11°16	18°59	19°32	28°11	19°35	W29
T 30	2 32 29	6°21'46	2♂31	27°14	20°12	13°59	26°48	22°29	26°57	13°36	11°16	18°57	19°29	28°17	19°32	T 30
F 31	2 36 26	7♂21'42	15♂38	28♂33	21♂15	14♂43	26♂59	22♂26	26♂56	13♀35	11°R16	18°D57	19♂26	28♂24	19♂29	F 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	3s 2	7n 6	3n16	4s24	0n49	11n10	2s47	25s17	2s 1	23s 2	0n10	21n42	1s33	23n33	0n 8	4n11	1s37	23s46	6s41	17s38	18s 1	16n34	15n41	2s20			
T 2	3 25	11 25	2 13	5 9	0 43	11 3	2 39	25 19	2 1	23 2	0 10	21 42	1 33	23 33	0 8	4 10	1 37	23 46	6 41	17 36	18 0	16 32	15 41	2 20			
F 3	3 48	15 2	1 5	5 54	0 36	10 55	2 31	25 20	2 0	23 3	0 10	21 42	1 33	23 33	0 8	4 10	1 37	23 46	6 41	17 36	17 59	16 31	15 40	2 20			
S 4	4 11	17 47	0s 6	6 39	0 30	10 46	2 23	25 21	2 0	23 4	0 10	21 42	1 33	23 33	0 8	4 9	1 37	23 46	6 41	17 36	17 58	16 29	15 39	2 20			
S 5	4 34	19 35	1 14	7 23	0 23	10 37	2 15	25 22	2 0	23 4	0 10	21 42	1 34	23 33	0 8	4 8	1 37	23 46	6 40	17 36	17 57	16 28	15 39	2 21			
M 6	4 57	20 22	2 17	8 6	0 16	10 28	2 7	25 23	1 59	23 5	0 10	21 42	1 34	23 33	0 8	4 8	1 37	23 46	6 40	17 36	17 56	16 26	15 38	2 21			
T 7	5 20	20 12	3 13	8 49	0 9	10 18	1 59	25 24	1 59	23 5	0 10	21 41	1 34	23 33	0 8	4 7	1 37	23 47	6 40	17 37	17 55	16 24	15 37	2 21			
W 8	5 43	19 6	4 0	9 31	0 2	10 7	1 51	25 24	1 59	23 6	0 10	21 41	1 34	23 33	0 8	4 6	1 37	23 47	6 40	17 37	17 55	16 23	15 36	2 21			
T 9	6 6	17 11	4 36	10 13	0s 5	9 56	1 44	25 24	1 58	23 7	0 9	21 41	1 34	23 33	0 8	4 6	1 37	23 47	6 40	17 37	17 54	16 21	15 36	2 21			
F 10	6 29	14 32	5 0	10 54	0 12	9 45	1 36	25 24	1 58	23 7	0 9	21 41	1 34	23 33	0 8	4 5	1 37	23 47	6 40	17 37	17 53	16 20	15 35	2 22			
S 11	6 52	11 17	5 11	11 34	0 19	9 33	1 29	25 23	1 57	23 8	0 9	21 41	1 34	23 33	0 8	4 4	1 37	23 47	6 40	17 36	17 52	16 18	15 34	2 22			
S 12	7 14	7 32	5 9	12 14	0 26	9 20	1 21	25 23	1 57	23 8	0 9	21 41	1 34	23 33	0 8	4 4	1 37	23 47	6 40	17 35	17 51	16 17	15 33	2 22			
M13	7 37	3 24	4 53	12 53	0 33	9 7	1 14	25 22	1 57	23 9	0 9	21 41	1 34	23 33	0 8	4 3	1 37	23 47	6 40	17 33	17 50	16 15	15 32	2 22			
T 14	7 59	0s57	4 22	13 31	0 40	8 54	1 7	25 21	1 56	23 9	0 9	21 41	1 34	23 33	0 8	4 3	1 37	23 47	6 40	17 32	17 50	16 13	15 31	2 22			
W15	8 22	5 21	3 38	14 8	0 46	8 40	1 0	25 19	1 56	23 10	0 9	21 41	1 34	23 33	0 8	4 2	1 37	23 47	6 39	17 31	17 49	16 12	15 31	2 22			
T 16	8 44	9 36	2 41	14 45	0 53	8 25	0 53	25 18	1 55	23 10	0 9	21 40	1 34	23 33	0 9	4 1	1 37	23 47	6 39	17 30	17 48	16 10	15 30	2 23			
F 17	9 6	13 29	1 35	15 21	1 0	8 10	0 47	25 16	1 55	23 11	0 8	21 40	1 35	23 33	0 9	4 1	1 37	23 47	6 39	17 29	17 47	16 9	15 29	2 23			
S 18	9 28	16 42	0 22	15 56	1 7	7 55	0 40	25 14	1 54	23 11	0 8	21 40	1 35	23 33	0 9	4 0	1 37	23 47	6 39	17 29	17 46	16 7	15 28	2 23			
S 19	9 49	19 2	0n54	16 30	1 14	7 39	0 34	25 12	1 54	23 12	0 8	21 40	1 35	23 33	0 9	3 59	1 37	23 46	6 39	17 29	17 45	16 5	15 27	2 23			
M20	10 11	20 14	2 7	17 3	1 20	7 23	0 27	25 9	1 53	23 12	0 8	21 40	1 35	23 33	0 9	3 59	1 37	23 46	6 39	17 29	17 44	16 4	15 26	2 23			
T 21	10 33	20 10	3 14	17 36	1 27	7 7	0 21	25 6	1 53	23 13	0 8	21 40	1 35	23 33	0 9	3 58	1 37	23 46	6 39	17 29	17 44	16 2	15 26	2 23			
W22	10 54	18 51	4 9	18 8	1 33	6 50	0 15	25 3	1 52	23 13	0 8	21 39	1 35	23 33	0 9	3 58	1 37	23 46	6 39	17 30	17 43	16 1	15 25	2 23			
T 23	11 15	16 22	4 49	18 38	1 39	6 32	0 9	25 0	1 52	23 14	0 8	21 39	1 35	23 33	0 9	3 57	1 37	23 46	6 39	17 30	17 42	15 59	15 24	2 24			
F 24	11 36	12 54	5 11	19 8	1 45	6 15	0 3	24 56	1 51	23 14	0 8	21 39	1 35	23 33	0 9	3 56	1 37	23 46	6 38	17 30	17 41	15 57	15 23	2 24			
S 25	11 57	8 42	5 15	19 37	1 51	5 56	0n 3	24 52	1 51	23 15	0 7	21 39	1 35	23 33	0 9	3 56	1 37	23 46	6 38	17 30	17 40	15 56	15 22	2 24			
S 26	12 18	4 3	4 59	20 5	1 57	5 38	0 8	24 48	1 50	23 15	0 7	21 39	1 35	23 33	0 9	3 55	1 37	23 46	6 38	17 29	17 39	15 54	15 21	2 24			
M27	12 38	0n46	4 26	20 32	2 2	5 19	0 14	24 44	1 50	23 16	0 7	21 39	1 35	23 33	0 9	3 55	1 37	23 46	6 38	17 29	17 38	15 53	15 20	2 24			
T 28	12 58	5 31	3 38	20 57	2 7	5 0	0 19	24 39	1 49	23 16	0 7	21 38	1 35	23 33	0 9	3 54	1 37	23 46	6 38	17 28	17 38	15 51	15 19	2 24			
W29	13 18	9 55	2 38	21 22	2 12	4 40	0 25	24 35	1 49	23 16	0 7	21 38	1 35	23 33	0 9	3 53	1 37	23 45	6 38	17 28	17 37	15 49	15 18	2 24			
T 30	13 38	13 45	1 30	21 46	2 17	4 20	0 30	24 29	1 48	23 17	0 7	21 38	1 35	23 33	0 9	3 53	1 37	23 45	6 38	17 27	17 36	15 48	15 17	2 25			
F 31	13s58	16n49	0n18	22s 8	2s22	4n 0	0n35	24s24	1s48	23s17	0n 7	21n38	1s35	23n33	0n 9	3n52	1s37	23s45	6s38	17s27	17s35	15n46	15n17	2s25			

ASTRODIENST EPHEMERIS for the year 2031

geocentric

NOVEMBER 2031

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 40 22	8♈21'39	28♌28	29♍52	22♎19	15♏28	27♐10	22°R23	26°R55	13°R33	11♑17	18♒57	19♓23	28♈31	19°R26	S 1
S 2	2 44 19	9°21'39	11♈2	1♉9	23°22	16°12	27°21	22♈21	26♈53	13♉32	11°17	18°58	19°20	28°37	19♉23	S 2
M 3	2 48 15	10°21'41	23°21	2°24	24°27	16°56	27°33	22°18	26°52	13°30	11°17	18°59	19°17	28°44	19°20	M 3
T 4	2 52 12	11°21'45	5♈28	3°38	25°31	17°41	27°44	22°15	26°50	13°29	11°17	18°59	19°13	28°51	19°17	T 4
W 5	2 56 8	12°21'51	17°25	4°51	26°36	18°25	27°56	22°11	26°48	13°27	11°18	19°0	19°10	28°58	19°14	W 5
T 6	3 0 5	13°21'59	29°18	6°1	27°41	19°10	28°7	22°8	26°47	13°26	11°18	19°1	19°7	29°4	19°11	T 6
F 7	3 4 2	14°22'09	11♈10	7°10	28°46	19°54	28°19	22°5	26°45	13°25	11°18	19°R 1	19°4	29°11	19°8	F 7
S 8	3 7 58	15°22'21	23°7	8°16	29°52	20°39	28°30	22°1	26°43	13°23	11°19	19°1	19°1	29°18	19°5	S 8
S 9	3 11 55	16°22'35	5♈12	9°20	0♉58	21°23	28°42	21°58	26°42	13°22	11°19	19°1	18°57	29°24	19°2	S 9
M10	3 15 51	17°22'51	17°31	10°20	2°4	22°8	28°54	21°54	26°40	13°21	11°19	19°1	18°54	29°31	18°59	M10
T 11	3 19 48	18°23'09	0♉7	11°18	3°10	22°53	29°6	21°51	26°38	13°19	11°20	19°0	18°51	29°38	18°56	T 11
W12	3 23 44	19°23'29	13°3	12°11	4°17	23°38	29°18	21°47	26°36	13°18	11°20	19°D 0	18°48	29°45	18°53	W12
T 13	3 27 41	20°23'51	26°20	13°1	5°24	24°23	29°30	21°43	26°34	13°17	11°21	19°0	18°45	29°51	18°50	T 13
F 14	3 31 37	21°24'14	9♈59	13°46	6°31	25°8	29°42	21°39	26°32	13°15	11°21	19°1	18°42	29°58	18°47	F 14
S 15	3 35 34	22°24'40	23°58	14°26	7°38	25°53	29°55	21°36	26°30	13°14	11°22	19°R 1	18°38	0♉5	18°44	S 15
S 16	3 39 31	23°25'07	8♈12	15°0	8°46	26°38	0♉7	21°31	26°28	13°13	11°23	19°0	18°35	0°11	18°41	S 16
M17	3 43 27	24°25'36	22°38	15°27	9°54	27°23	0°19	21°27	26°26	13°12	11°23	19°0	18°32	0°18	18°38	M17
T 18	3 47 24	25°26'06	7♈9	15°47	11°2	28°9	0°32	21°23	26°24	13°11	11°24	18°59	18°29	0°25	18°35	T 18
W19	3 51 20	26°26'38	21°41	16°0	12°10	28°54	0°44	21°19	26°22	13°10	11°25	18°58	18°26	0°32	18°32	W19
T 20	3 55 17	27°27'11	6♈7	16°R 3	13°18	29°39	0°57	21°15	26°20	13°8	11°25	18°58	18°22	0°38	18°28	T 20
F 21	3 59 13	28°27'45	20°24	15°57	14°27	0♉25	1°9	21°10	26°18	13°7	11°26	18°57	18°19	0°45	18°25	F 21
S 22	4 3 10	29°28'20	4♈29	15°41	15°35	1°10	1°22	21°6	26°16	13°6	11°27	18°D57	18°16	0°52	18°22	S 22
S 23	4 7 6	0♉28'56	18°21	15°15	16°44	1°56	1°35	21°2	26°14	13°5	11°28	18°58	18°13	0°58	18°19	S 23
M24	4 11 3	1°29'33	2♈0	14°38	17°53	2°41	1°48	20°57	26°11	13°4	11°28	18°59	18°10	1°5	18°17	M24
T 25	4 15 0	2°30'12	15°24	13°50	19°3	3°27	2°1	20°53	26°9	13°3	11°29	19°0	18°7	1°12	18°14	T 25
W26	4 18 56	3°30'52	28°35	12°52	20°12	4°12	2°13	20°48	26°7	13°2	11°30	19°1	18°3	1°19	18°11	W26
T 27	4 22 53	4°31'33	11♈34	11°46	21°22	4°58	2°26	20°43	26°4	13°2	11°31	19°2	18°0	1°25	18°8	T 27
F 28	4 26 49	5°32'15	24°19	10°32	22°31	5°44	2°39	20°39	26°2	13°1	11°32	19°R 2	17°57	1°32	18°5	F 28
S 29	4 30 46	6°32'59	6♈53	9°12	23°41	6°29	2°52	20°34	26°0	13°0	11°33	19°1	17°54	1°39	18°2	S 29
S 30	4 34 42	7♈33'43	19♈15	7♈50	24♈51	7♈15	3♈6	20♈29	25♈57	12♈59	11♈34	18♈59	17♈51	1♈45	17♈59	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
S 1	14s17	18n58	0s53	22s30	2s26	3n40	0n40	24s19	1s47	23s18	0n 7	21n38	1s35	23n33	0n 9	3n52	1s37	23s45	6s38	17s27	17s34	15n44	15n16	2s25			
S 2	14 37	20 7	1 59	22 50	2 30	3 19	0 44	24 13	1 46	23 18	0 7	21 37	1 35	23 33	0 9	3 51	1 37	23 45	6 37	17 27	17 33	15 43	15 15	2 25			
M 3	14 55	20 17	2 59	23 9	2 33	2 58	0 49	24 7	1 46	23 18	0 6	21 37	1 36	23 33	0 9	3 51	1 37	23 45	6 37	17 28	17 32	15 41	15 14	2 25			
T 4	15 14	19 29	3 50	23 26	2 37	2 36	0 54	24 0	1 45	23 19	0 6	21 37	1 36	23 33	0 9	3 50	1 37	23 44	6 37	17 28	17 32	15 40	15 13	2 25			
W 5	15 33	17 50	4 30	23 42	2 39	2 14	0 58	23 54	1 45	23 19	0 6	21 37	1 36	23 33	0 9	3 49	1 37	23 44	6 37	17 28	17 31	15 38	15 12	2 25			
T 6	15 51	15 25	4 59	23 57	2 42	1 53	1 2	23 47	1 44	23 19	0 6	21 37	1 36	23 32	0 9	3 49	1 37	23 44	6 37	17 28	17 30	15 36	15 11	2 25			
F 7	16 9	12 23	5 14	24 11	2 43	1 30	1 6	23 40	1 43	23 19	0 6	21 36	1 36	23 32	0 9	3 48	1 37	23 44	6 37	17 28	17 29	15 35	15 10	2 25			
S 8	16 26	8 49	5 16	24 23	2 45	1 8	1 11	23 32	1 43	23 20	0 6	21 36	1 36	23 32	0 9	3 48	1 37	23 44	6 37	17 28	17 28	15 33	15 9	2 26			
S 9	16 44	4 52	5 5	24 34	2 45	0 45	1 14	23 25	1 42	23 20	0 6	21 36	1 36	23 32	0 9	3 47	1 37	23 43	6 37	17 28	17 27	15 31	15 8	2 26			
M10	17 1	0 39	4 39	24 43	2 45	0 22	1 18	23 17	1 41	23 20	0 6	21 36	1 36	23 32	0 9	3 47	1 37	23 43	6 37	17 28	17 26	15 30	15 7	2 26			
T 11	17 18	3s42	3 59	24 51	2 45	0s 1	1 22	23 9	1 41	23 20	0 6	21 35	1 36	23 32	0 9	3 46	1 37	23 43	6 36	17 28	17 26	15 28	15 6	2 26			
W12	17 34	8 1	3 7	24 57	2 43	0 24	1 25	23 1	1 40	23 20	0 5	21 35	1 36	23 32	0 9	3 46	1 36	23 43	6 36	17 28	17 25	15 26	15 6	2 26			
T 13	17 51	12 4	2 3	25 1	2 41	0 47	1 29	22 52	1 39	23 21	0 5	21 35	1 36	23 32	0 9	3 46	1 36	23 42	6 36	17 28	17 24	15 25	15 5	2 26			
F 14	18 7	15 36	0 50	25 3	2 38	1 11	1 32	22 43	1 39	23 21	0 5	21 35	1 36	23 32	0 9	3 45	1 36	23 42	6 36	17 28	17 23	15 23	15 4	2 26			
S 15	18 22	18 19	0n27	25 4	2 33	1 34	1 35	22 34	1 38	23 21	0 5	21 34	1 36	23 32	0 9	3 45	1 36	23 42	6 36	17 28	17 22	15 21	15 3	2 26			
S 16	18 37	19 57	1 45	25 3	2 28	1 58	1 38	22 25	1 37	23 21	0 5	21 34	1 36	23 32	0 9	3 44	1 36	23 42	6 36	17 28	17 21	15 20	15 2	2 26			
M17	18 52	20 18	2 56	24 59	2 22	2 22	1 41	22 15	1 37	23 21	0 5	21 34	1 36	23 32	0 9	3 44	1 36	23 41	6 36	17 28	17 20	15 18	15 1	2 26			
T 18	19 7	19 18	3 56	24 54	2 14	2 46	1 44	22 6	1 36	23 21	0 5	21 34	1 36	23 32	0 9	3 43	1 36	23 41	6 36	17 28	17 19	15 16	15 0	2 26			
W19	19 21	17 3	4 42	24 46	2 5	3 10	1 46	21 56	1 35	23 21	0 5	21 33	1 36	23 32	0 9	3 43	1 36	23 41	6 36	17 28	17 19	15 15	14 59	2 26			
T 20	19 35	13 45	5 9	24 36	1 55	3 35	1 49	21 46	1 35	23 21	0 5	21 33	1 36	23 32	0 9	3 43	1 36	23 40	6 35	17 27	17 18	15 13	14 58	2 27			
F 21	19 49	9 40	5 17	24 24	1 43	3 59	1 51	21 35	1 34	23 21	0 4	21 33	1 36	23 32	0 9	3 42	1 36	23 40	6 35	17 27	17 17	15 11	14 57	2 27			
S 22	20 2	5 7	5 5	24 9	1 29	4 23	1 54	21 25	1 33	23 21	0 4	21 33	1 36	23 32	0 9	3 42	1 36	23 40	6 35	17 27	17 16	15 10	14 57	2 27			
S 23	20 15	0 22	4 36	23 51	1 14	4 48	1 56	21 14	1 32	23 21	0 4	21 32	1 36	23 32	0 9	3 41	1 36	23 40	6 35	17 27	17 15	15 8	14 56	2 27			
M24	20 27	4n20	3 52	23 30	0 58	5 12	1 58	21 3	1 32	23 21	0 4	21 32	1 36	23 32	0 9	3 41	1 36	23 39	6 35	17 28	17 14	15 6	14 55	2 27			
T 25	20 39	8 46	2 56	23 7	0 40	5 37	2 0	20 51	1 31	23 21	0 4	21 32	1 36	23 32	0 9	3 41	1 36	23 39	6 35	17 28	17 13	15 5	14 54	2 27			
W26	20 51	12 42	1 51	22 41	0 21	6 1	2 2	20 40	1 30	23 21	0 4	21 31	1 36	23 32	0 9	3 40	1 36	23 39	6 35	17 28	17 12	15 3	14 53	2 27			
T 27	21 2	15 57	0 41	22 12	0 1	6 25	2 3	20 28	1 30	23 21	0 4	21 31	1 36	23 32	0 9	3 40	1 36	23 38	6 35	17 28	17 11	15 1	14 52	2 27			
F 28	21 13	18 22	0s29	21 42	0n20	6 50	2 5	20 16	1 29	23 21	0 4	21 31	1 36	23 32	0 9	3 40	1 36	23 38	6 35	17 28	17 11	15 0	14 51	2 27			
S 29	21 24	19 52	1 37	21 10	0 40	7 14	2 6	20 4	1 28	23 20	0 4	21 31	1 36	23 32	0 9	3 40	1 36	23 37	6 35	17 28	17 10	14 58	14 51	2 27			
S 30	21s34	20n21	2s39	20s37	1n 0	7s39	2n 7	19s52	1s27	23s20	0n 4	21n30	1s36	23n31	0n 9	3n39	1s36	23s37	6s34	17s28	17s 9	14n56	14n50	2s27			

ASTRODIENST EPHEMERIS for the year 2031
geocentric

DECEMBER 2031

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	4 38 39	8♂34'30	1♂27	6♂R28	26♂ 2	8♂ 1	3♂19	20♂R25	25♂R55	12♂R58	11♂35	18♂R56	17♂L48	1♂L52	17♂R56	M 1
T 2	4 42 35	9♂35'17	13♂30	5♂ 8	27♂12	8♂46	3♂32	20♂II20	25♂II53	12♂Y57	11♂36	18♂L53	17♂44	1♂59	17♂R53	T 2
W 3	4 46 32	10♂36'06	25♂26	3♂54	28♂22	9♂32	3♂45	20♂15	25♂50	12♂57	11♂37	18♂49	17♂41	2♂ 6	17♂51	W 3
T 4	4 50 29	11♂36'56	7♂L18	2♂47	29♂33	10♂18	3♂58	20♂10	25♂48	12♂56	11♂38	18♂46	17♂38	2♂12	17♂48	T 4
F 5	4 54 25	12♂37'48	19♂10	1♂50	0♂L44	11♂ 4	4♂12	20♂ 5	25♂45	12♂55	11♂39	18♂43	17♂35	2♂19	17♂45	F 5
S 6	4 58 22	13♂38'40	1♂ 5	1♂ 3	1♂55	11♂50	4♂25	20♂ 0	25♂43	12♂55	11♂40	18♂41	17♂32	2♂26	17♂43	S 6
S 7	5 2 18	14♂39'34	13♂ 7	0♂28	3♂ 6	12♂36	4♂38	19♂55	25♂40	12♂54	11♂41	18♂D40	17♂28	2♂33	17♂40	S 7
M 8	5 6 15	15♂40'30	25♂22	0♂ 4	4♂17	13♂22	4♂52	19♂50	25♂38	12♂54	11♂42	18♂40	17♂25	2♂39	17♂37	M 8
T 9	5 10 11	16♂41'26	7♂L54	29♂L51	5♂28	14♂ 8	5♂ 5	19♂46	25♂35	12♂53	11♂44	18♂42	17♂22	2♂46	17♂35	T 9
W10	5 14 8	17♂42'24	20♂47	29♂D49	6♂39	14♂54	5♂19	19♂41	25♂33	12♂53	11♂45	18♂43	17♂19	2♂53	17♂32	W10
T 11	5 18 4	18♂43'23	4♂L 5	29♂57	7♂51	15♂40	5♂32	19♂36	25♂30	12♂52	11♂46	18♂45	17♂16	2♂59	17♂30	T 11
F 12	5 22 1	19♂44'24	17♂49	0♂L15	9♂ 2	16♂26	5♂46	19♂31	25♂28	12♂52	11♂47	18♂R46	17♂13	3♂ 6	17♂27	F 12
S 13	5 25 58	20♂45'25	2♂ 0	0♂41	10♂14	17♂12	5♂59	19♂26	25♂25	12♂51	11♂48	18♂45	17♂ 9	3♂13	17♂25	S 13
S 14	5 29 54	21♂46'27	16♂34	1♂15	11♂26	17♂58	6♂13	19♂21	25♂22	12♂51	11♂50	18♂43	17♂ 6	3♂20	17♂22	S 14
M15	5 33 51	22♂47'30	1♂24	1♂55	12♂38	18♂44	6♂27	19♂16	25♂20	12♂51	11♂51	18♂39	17♂ 3	3♂26	17♂20	M15
T 16	5 37 47	23♂48'34	16♂24	2♂42	13♂50	19♂30	6♂40	19♂11	25♂17	12♂50	11♂52	18♂34	17♂ 0	3♂33	17♂18	T 16
W17	5 41 44	24♂49'39	1♂23	3♂33	15♂ 2	20♂16	6♂54	19♂ 6	25♂15	12♂50	11♂54	18♂28	16♂57	3♂40	17♂15	W17
T 18	5 45 40	25♂50'44	16♂14	4♂30	16♂14	21♂ 3	7♂ 8	19♂ 1	25♂12	12♂50	11♂55	18♂23	16♂54	3♂46	17♂13	T 18
F 19	5 49 37	26♂51'49	0♂L48	5♂31	17♂26	21♂49	7♂22	18♂56	25♂10	12♂50	11♂56	18♂18	16♂50	3♂53	17♂11	F 19
S 20	5 53 34	27♂52'54	15♂ 2	6♂35	18♂38	22♂35	7♂35	18♂51	25♂ 7	12♂49	11♂58	18♂16	16♂47	4♂ 0	17♂ 9	S 20
S 21	5 57 30	28♂54'00	28♂54	7♂42	19♂51	23♂21	7♂49	18♂46	25♂ 4	12♂49	11♂59	18♂D15	16♂44	4♂ 7	17♂ 7	S 21
M22	6 1 27	29♂55'06	12♂Y24	8♂52	21♂ 3	24♂ 7	8♂ 3	18♂42	25♂ 2	12♂49	12♂ 1	18♂16	16♂41	4♂13	17♂ 4	M22
T 23	6 5 23	0♂S56'12	25♂33	10♂ 5	22♂15	24♂53	8♂17	18♂37	24♂59	12♂49	12♂ 2	18♂17	16♂38	4♂20	17♂ 2	T 23
W24	6 9 20	1♂57'18	8♂L26	11♂20	23♂28	25♂40	8♂31	18♂32	24♂57	12♂D49	12♂ 4	18♂19	16♂34	4♂27	17♂ 1	W24
T 25	6 13 16	2♂58'25	21♂ 4	12♂36	24♂41	26♂26	8♂44	18♂27	24♂54	12♂49	12♂ 5	18♂R19	16♂31	4♂33	16♂59	T 25
F 26	6 17 13	3♂59'32	3♂II31	13♂55	25♂53	27♂12	8♂58	18♂23	24♂52	12♂49	12♂ 7	18♂18	16♂28	4♂40	16♂57	F 26
S 27	6 21 9	5♂ 0'39	15♂48	15♂15	27♂ 6	27♂58	9♂12	18♂18	24♂49	12♂49	12♂ 8	18♂14	16♂25	4♂47	16♂55	S 27
S 28	6 25 6	6♂ 1'46	27♂57	16♂36	28♂19	28♂44	9♂26	18♂13	24♂47	12♂49	12♂10	18♂ 8	16♂22	4♂54	16♂53	S 28
M29	6 29 3	7♂ 2'54	10♂L 0	17♂58	29♂32	29♂31	9♂40	18♂ 9	24♂44	12♂49	12♂11	18♂ 0	16♂19	5♂ 0	16♂52	M29
T 30	6 32 59	8♂ 4'02	21♂58	19♂21	0♂L45	0♂L17	9♂54	18♂ 4	24♂42	12♂50	12♂13	17♂50	16♂15	5♂ 7	16♂50	T 30
W31	6 36 56	9♂S 5'10	3♂L52	20♂L45	1♂L58	1♂ 3	10♂S 8	18♂II 0	24♂II39	12♂Y50	12♂L14	17♂L40	16♂L12	5♂L14	16♂L48	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	21s44	19n53	3s33	20s 5	1n19	8s 3	2n 9	19s39	1s27	23s20	0n 3	21n30	1s35	23n31	0n 9	3n39
T 2	21 53	18 30	4 17	19 34	1 37	8 27	2 10	19 26	1 26	23 20	0 3	21 30	1 35	23 31	0 9	3 39
W 3	22 2	16 19	4 49	19 4	1 53	8 51	2 11	19 14	1 25	23 20	0 3	21 29	1 35	23 31	0 9	3 39
T 4	22 10	13 28	5 8	18 38	2 7	9 16	2 12	19 0	1 24	23 19	0 3	21 29	1 35	23 31	0 9	3 38
F 5	22 18	10 6	5 14	18 16	2 19	9 39	2 12	18 47	1 23	23 19	0 3	21 29	1 35	23 31	0 9	3 38
S 6	22 26	6 18	5 7	17 57	2 28	10 3	2 13	18 34	1 23	23 19	0 3	21 29	1 35	23 31	0 9	3 38
S 7	22 33	2 13	4 46	17 43	2 35	10 27	2 13	18 20	1 22	23 18	0 3	21 28	1 35	23 31	0 9	3 38
M 8	22 40	2s 1	4 12	17 33	2 40	10 51	2 14	18 6	1 21	23 18	0 3	21 28	1 35	23 31	0 9	3 37
T 9	22 46	6 17	3 26	17 27	2 44	11 14	2 14	17 52	1 20	23 17	0 3	21 28	1 35	23 31	0 9	3 37
W10	22 52	10 23	2 27	17 25	2 45	11 37	2 14	17 38	1 19	23 17	0 3	21 27	1 35	23 31	0 9	3 37
T 11	22 57	14 7	1 20	17 27	2 45	12 0	2 14	17 23	1 19	23 17	0 2	21 27	1 35	23 31	0 9	3 37
F 12	23 2	17 13	0 5	17 32	2 44	12 23	2 14	17 9	1 18	23 16	0 2	21 27	1 35	23 31	0 9	3 37
S 13	23 7	19 23	1n12	17 40	2 41	12 46	2 14	16 54	1 17	23 16	0 2	21 26	1 35	23 31	0 9	3 37
S 14	23 11	20 20	2 26	17 50	2 37	13 8	2 14	16 39	1 16	23 15	0 2	21 26	1 35	23 30	0 9	3 37
M15	23 14	19 54	3 32	18 3	2 33	13 30	2 14	16 24	1 15	23 15	0 2	21 26	1 34	23 30	0 9	3 37
T 16	23 17	18 4	4 23	18 17	2 27	13 52	2 13	16 9	1 15	23 14	0 2	21 26	1 34	23 30	0 9	3 37
W17	23 20	15 1	4 57	18 33	2 21	14 13	2 13	15 53	1 14	23 13	0 2	21 25	1 34	23 30	0 9	3 36
T 18	23 22	11 1	5 10	18 49	2 15	14 35	2 12	15 38	1 13	23 13	0 2	21 25	1 34	23 30	0 9	3 36
F 19	23 24	6 27	5 3	19 7	2 8	14 56	2 11	15 22	1 12	23 12	0 2	21 25	1 34	23 30	0 9	3 36
S 20	23 25	1 37	4 38	19 25	2 1	15 16	2 11	15 6	1 11	23 11	0 2	21 24	1 34	23 30	0 9	3 36
S 21	23 26	3n10	3 56	19 43	1 54	15 37	2 10	14 50	1 10	23 11	0 1	21 24	1 34	23 30	0 9	3 36
M22	23 26	7 42	3 20	20 2	1 46	15 57	2 9	14 34	1 10	23 10	0 1	21 24	1 34	23 30	0 9	3 36
T 23	23 26	11 45	2 0	20 20	1 38	16 16	2 8	14 18	1 9	23 9	0 1	21 24	1 33	23 30	0 9	3 36
W24	23 25	15 9	0 53	20 39	1 30	16 36	2 7	14 2	1 8	23 8	0 1	21 23	1 33	23 30	0 9	3 36
T 25	23 24	17 47	0s15	20 57	1 22	16 54	2 5	13 45	1 7	23 8	0 1	21 23	1 33	23 30	0 9	3 36
F 26	23 22	19 31	1 21	21 15	1 14	17 13	2 4	13 29	1 6	23 7	0 1	21 23	1 33	23 29	0 9	3 37
S 27	23 20	20 19	2 23	21 32	1 6	17 31	2 3	13 12	1 5	23 6	0 1	21 23	1 33	23 29	0 9	3 37
S 28	23 18	20 8	3 17	21 48	0 58	17 49	2 1	12 55	1 5	23 5	0 1	21 22	1 33	23 29	0 9	3 37
M29	23 15	19 2	4 2	22 4	0 49	18 6	2 0	12 38	1 4	23 4	0 1	21 22	1 33	23 29	0 9	3 37
T 30	23 11	17 7	4 35	22 19	0 41	18 23	1 58	12 21	1 3	23 3	0 1	21 22	1 32	23 29	0 9	3 37
W31	23s 7	14n28	4s57	22s33	0n33	18s39	1n56	12s 4	1s 2	23s 2	0n 1	21n22	1s32	23n29	0n 9	3n37

Julian Day Number = 2463201.5, Delta T = 69.74 sec
Ecliptic obliquity = 23°26'00, Nutation = 0°00'12, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 25°11'10, Lahiri = 24°18'11