



Astrodienst Ephemeris Tables for the year 2112

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 2112

geocentric

JANUARY 2112

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	6 39 22	9°34'02"22	27°34'46"	2°33'36"	7°51'51"	9°11'08"	24°55'55"	0°46'46"	7°55'55"	13°30'30"	13°59'59"	28°0'0"	28°53'53"	20°22'22"	0°46'46"	F 1
S 2	6 43 18	10°41'33"	12°34'40"	4°10'10"	9°5'5"	9°44'44"	25°2'2"	0°52'52"	7°55'55"	13°30'30"	13°59'59"	28°0'0"	28°53'53"	20°22'22"	0°46'46"	S 2
S 3	6 47 15	11°42'43"	27°28'28"	5°45'45"	10°20'20"	10°20'20"	25°9'9"	0°57'57"	7°51'51"	13°31'31"	13°58'58"	28°2'2"	28°47'47"	20°36'36"	0°9'9"	S 3
M 4	6 51 11	12°43'53"	12°34'34"	7°19'19"	11°34'34"	10°56'56"	25°15'15"	1°3'3"	7°49'49"	13°31'31"	13°58'58"	28°3'3"	28°44'44"	20°43'43"	0°13'13"	M 4
T 5	6 55 8	13°45'02"	26°21'21"	8°54'54"	12°48'48"	11°33'33"	25°22'22"	1°9'9"	7°47'47"	13°31'31"	13°57'57"	28°4'4"	28°41'41"	20°50'50"	0°16'16"	T 5
W 6	6 59 5	14°46'12"	10°46'12"	10°29'29"	14°2'2"	12°9'9"	25°28'28"	1°14'14"	7°45'45"	13°32'32"	13°57'57"	28°5'5"	28°38'38"	20°56'56"	0°19'19"	W 6
T 7	7 3 1	15°47'21"	24°1'1"	12°5'5"	15°16'16"	12°45'45"	25°35'35"	1°20'20"	7°43'43"	13°32'32"	13°56'56"	28°5'5"	28°34'34"	21°3'3"	0°22'22"	T 7
F 8	7 6 58	16°48'30"	7°8'23"	13°41'41"	16°31'31"	13°21'21"	25°41'41"	1°26'26"	7°42'42"	13°32'32"	13°56'56"	28°4'4"	28°31'31"	21°10'10"	0°25'25"	F 8
S 9	7 10 54	17°49'38"	20°27'27"	15°17'17"	17°45'45"	13°57'57"	25°47'47"	1°32'32"	7°40'40"	13°33'33"	13°55'55"	28°3'3"	28°28'28"	21°16'16"	0°29'29"	S 9
S 10	7 14 51	18°50'46"	3°11'15"	16°54'54"	18°59'59"	14°33'33"	25°53'53"	1°38'38"	7°38'38"	13°33'33"	13°55'55"	28°1'1"	28°25'25"	21°23'23"	0°32'32"	S 10
M 11	7 18 47	19°51'54"	15°50'50"	18°31'31"	20°14'14"	15°8'8"	25°59'59"	1°44'44"	7°36'36"	13°33'33"	13°55'55"	28°0'0"	28°22'22"	21°30'30"	0°35'35"	M 11
T 12	7 22 44	20°53'01"	28°13'13"	20°8'8"	21°28'28"	15°44'44"	26°4'4"	1°50'50"	7°35'35"	13°33'33"	13°54'54"	27°59'59"	28°18'18"	21°36'36"	0°39'39"	T 12
W 13	7 26 40	21°54'09"	10°52'25"	21°46'46"	22°43'43"	16°20'20"	26°10'10"	1°56'56"	7°33'33"	13°33'33"	13°54'54"	27°58'58"	28°15'15"	21°43'43"	0°42'42"	W 13
T 14	7 30 37	22°55'15"	22°28'28"	23°25'25"	23°57'57"	16°56'56"	26°15'15"	2°2'2"	7°31'31"	13°33'33"	13°54'54"	27°58'58"	28°12'12"	21°50'50"	0°45'45"	T 14
F 15	7 34 34	23°56'22"	4°12'25"	25°3'3"	25°11'11"	17°32'32"	26°20'20"	2°9'9"	7°30'30"	13°33'33"	13°53'53"	27°58'58"	28°9'9"	21°56'56"	0°49'49"	F 15
S 16	7 38 30	24°57'28"	16°16'16"	26°43'43"	26°26'26"	18°7'7"	26°25'25"	2°15'15"	7°28'28"	13°33'33"	13°53'53"	27°58'58"	28°6'6"	22°3'3"	0°52'52"	S 16
S 17	7 42 27	25°58'34"	28°5'5"	28°22'22"	27°40'40"	18°43'43"	26°30'30"	2°21'21"	7°27'27"	13°33'33"	13°53'53"	27°59'59"	28°3'3"	22°10'10"	0°56'56"	S 17
M 18	7 46 23	26°59'39"	9°11'53"	0°33'33"	28°55'55"	19°19'19"	26°34'34"	2°28'28"	7°26'26"	13°33'33"	13°53'53"	27°59'59"	27°59'59"	22°16'16"	1°0'0"	M 18
T 19	7 50 20	28°0'45"	21°44'44"	1°43'43"	0°33'33"	19°54'54"	26°39'39"	2°34'34"	7°24'24"	13°33'33"	13°52'52"	27°59'59"	27°56'56"	22°23'23"	1°3'3"	T 19
W 20	7 54 16	29°1'50"	3°12'42"	3°25'25"	1°24'24"	20°30'30"	26°43'43"	2°41'41"	7°23'23"	13°33'33"	13°52'52"	27°59'59"	27°53'53"	22°30'30"	1°7'7"	W 20
T 21	7 58 13	0°33'54"	15°51'51"	5°6'6"	2°38'38"	21°5'5"	26°47'47"	2°47'47"	7°22'22"	13°33'33"	13°52'52"	27°59'59"	27°50'50"	22°36'36"	1°11'11"	T 21
F 22	8 2 9	1°3'59"	28°14'14"	6°48'48"	3°53'53"	21°41'41"	26°51'51"	2°54'54"	7°20'20"	13°32'32"	13°52'52"	27°59'59"	27°47'47"	22°43'43"	1°14'14"	F 22
S 23	8 6 6	2°5'03"	10°11'57"	8°31'31"	5°8'8"	22°16'16"	26°55'55"	3°0'0"	7°19'19"	13°32'32"	13°52'52"	27°59'59"	27°43'43"	22°50'50"	1°18'18"	S 23
S 24	8 10 3	3°6'07"	24°2'2"	10°14'14"	6°22'22"	22°51'51"	26°58'58"	3°7'7"	7°18'18"	13°32'32"	13°52'52"	27°59'59"	27°40'40"	22°56'56"	1°22'22"	S 24
M 25	8 13 59	4°7'10"	7°13'34"	11°57'57"	7°37'37"	23°27'27"	27°1'1"	3°14'14"	7°17'17"	13°32'32"	13°52'52"	27°59'59"	27°37'37"	23°3'3"	1°25'25"	M 25
T 26	8 17 56	5°8'13"	8°13'33"	13°40'40"	8°51'51"	24°2'2"	27°5'5"	3°20'20"	7°16'16"	13°31'31"	13°51'51"	28°0'0"	27°34'34"	23°10'10"	1°29'29"	T 26
W 27	8 21 52	6°9'16"	5°33'59"	15°24'24"	10°6'6"	24°37'37"	27°8'8"	3°27'27"	7°15'15"	13°31'31"	13°51'51"	28°1'1"	27°31'31"	23°16'16"	1°33'33"	W 27
T 28	8 25 49	7°10'18"	20°47'17"	17°7'7"	11°21'21"	25°12'12"	27°11'11"	3°34'34"	7°14'14"	13°30'30"	13°51'51"	28°1'1"	27°28'28"	23°23'23"	1°37'37"	T 28
F 29	8 29 45	8°11'19"	5°55'11"	18°51'51"	12°35'35"	25°47'47"	27°13'13"	3°41'41"	7°13'13"	13°30'30"	13°51'51"	28°1'1"	27°24'24"	23°30'30"	1°41'41"	F 29
S 30	8 33 42	9°12'19"	21°3'3"	20°34'34"	13°50'50"	26°22'22"	27°16'16"	3°47'47"	7°12'12"	13°30'30"	13°51'51"	28°1'1"	27°21'21"	23°36'36"	1°45'45"	S 30
S 31	8 37 39	10°13'18"	6°13'13"	22°18'18"	15°35'35"	26°15'15"	27°18'18"	3°54'54"	7°11'11"	13°29'29"	13°51'51"	27°59'59"	27°18'18"	23°43'43"	1°49'49"	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	23s 4	20s34	0n 1	24s28	1s 5	20s 6	1n31	13s30	1n 6	8s28	1n15	12s37	1s32	21n33	0s 4	F 1
S 2	23 0	18 17	1s20	24 32	1 10	20 20	1 29	13 41	1 5	8 31	1 16	12 35	1 32	21 32	0 4	S 2
S 3	22 54	14 47	2 36	24 33	1 16	20 33	1 27	13 53	1 5	8 33	1 16	12 33	1 32	21 32	0 4	S 3
M 4	22 49	10 26	3 41	24 34	1 21	20 46	1 25	14 4	1 5	8 35	1 16	12 31	1 32	21 32	0 4	M 4
T 5	22 43	5 35	4 30	24 33	1 26	20 57	1 22	14 16	1 4	8 37	1 16	12 29	1 31	21 31	0 4	T 5
W 6	22 36	0 32	5 2	24 31	1 30	21 9	1 20	14 27	1 4	8 40	1 16	12 27	1 31	21 31	0 4	W 6
T 7	22 29	4n24	5 16	24 27	1 35	21 19	1 18	14 38	1 4	8 42	1 17	12 25	1 31	21 31	0 4	T 7
F 8	22 22	9 2	5 13	24 22	1 39	21 30	1 15	14 49	1 4	8 44	1 17	12 23	1 31	21 31	0 4	F 8
S 9	22 14	13 8	4 53	24 15	1 43	21 39	1 13	15 0	1 3	8 46	1 17	12 21	1 31	21 30	0 4	S 9
S 10	22 6	16 33	4 19	24 7	1 47	21 48	1 10	15 11	1 3	8 48	1 17	12 18	1 31	21 30	0 4	S 10
M 11	21 57	19 8	3 33	23 58	1 50	21 56	1 8	15 22	1 3	8 49	1 17	12 16	1 31	21 30	0 4	M 11
T 12	21 48	20 47	2 38	23 47	1 53	22 4	1 5	15 33	1 2	8 51	1 18	12 14	1 31	21 29	0 4	T 12
W 13	21 39	21 25	1 36	23 35	1 56	22 11	1 3	15 43	1 2	8 53	1 18	12 12	1 31	21 29	0 4	W 13
T 14	21 29	21 3	0 31	23 21	1 59	22 17	1 0	15 54	1 2	8 55	1 18	12 10	1 31	21 29	0 4	T 14
F 15	21 18	19 43	0n36	23 5	2 1	22 23	0 58	16 4	1 1	8 56	1 18	12 7	1 31	21 29	0 4	F 15
S 16	21 7	17 32	1 40	22 48	2 3	22 28	0 55	16 15	1 1	8 58	1 19	12 5	1 31	21 29	0 4	S 16
S 17	20 56	14 38	2 40	22 30	2 4	22 32	0 52	16 25	1 0	8 59	1 19	12 3	1 31	21 28	0 4	S 17
M 18	20 45	11 8	3 33	22 10	2 5	22 36	0 50	16 35	1 0	9 1	1 19	12 0	1 31	21 28	0 4	M 18
T 19	20 33	7 12	4 17	21 48	2 6	22 39	0 47	16 45	1 0	9 2	1 19	11 58	1 31	21 28	0 4	T 19
W 20	20 20	2 58	4 50	21 25	2 6	22 41	0 44	16 54	0 59	9 3	1 19	11 56	1 31	21 28	0 4	W 20
T 21	20 8	1s27	5 11	21 1	2 6	22 42	0 41	17 4	0 59	9 5	1 20	11 53	1 31	21 27	0 4	T 21
F 22	19 54	5 53	5 18	20 35	2 5	22 43	0 39	17 14	0 59	9 6	1 20	11 51	1 31	21 27	0 4	F 22
S 23	19 41	10 11	5 10	20 7	2 4	22 44	0 36	17 23	0 58	9 7	1 20	11 48	1 31	21 27	0 4	S 23
S 24	19 27	14 9	4 46	19 38	2 3	22 43	0 33	17 33	0 58	9 8	1 20	11 46	1 31	21 27	0 4	S 24
M 25	19 13	17 31	4 5	19 8	2 0	22 42	0 30	17 42	0 57	9 9	1 21	11 44	1 31	21 27	0 4	M 25
T 26	18 58	20 0	3 9	18 35	1 58	22 40	0 28	17 51	0 57	9 10	1 21	11 41	1 31	21 27	0 4	T 26
W 27	18 43	21 18	2 0	18 2	1 55	22 38	0 25	18 0	0 56	9 11	1 21	11 39	1 31	21 26	0 4	W 27
T 28	18 28	21 9	0 40	17 27	1 51	22 34	0 22	18 9	0 56	9 12	1 21	11 36	1 31	21 26	0 4	T 28
F 29	18 12	19 30	0s43	16 51	1 46	22 31	0 19	18 18	0 55	9 12	1 22	11 34	1 31	21 26	0 4	F 29
S 30	17 56	16 26	2 4	16 13	1 41	22 26	0 16	18 26	0 55	9 13	1 22	11 31	1 31	21 26	0 4	S 30
S 31	17s40	12s16	3s17	15s35	1s35	22s21	0n14	18s35	0n55	9s14	1n22	11s29	1s31	21n26	0s 4	S 31

Julian Day Number = 2492451.5, Delta T = 99.03 sec
 Ecliptic obliquity = 23°25'24", Nutation = -0°00'15", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°18'19", Lahiri = 25°25'19"

ASTRODIENST EPHEMERIS for the year 2112
geocentric

FEBRUARY 2112

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	8 41 35	11 ¹¹ 14'17	21 ¹¹ 11	24 ⁰⁰ 0	16 ¹⁸ 19	27 ¹¹ 32	27 ¹¹ 20	4 ¹¹ 1	7°R11	13°R28	13 ¹⁸ 52	27°R58	27 ¹¹ 15	23 ¹¹ 50	1 ¹¹ 53	M 1
T 2	8 45 32	12°15'14	5 ¹¹ 50	25°42	17°34	28° 7	27°22	4° 8	7 ¹¹ 10	13 ¹¹ 28	13°52	27 ¹¹ 56	27°12	23°56	1°57	T 2
W 3	8 49 28	13°16'09	20° 5	27°23	18°49	28°42	27°24	4°15	7°10	13°27	13°52	27°54	27° 9	24° 3	2° 0	W 3
T 4	8 53 25	14°17'04	3 ¹¹ 53	29° 2	20° 3	29°16	27°25	4°22	7° 9	13°27	13°52	27°53	27° 5	24°10	2° 4	T 4
F 5	8 57 21	15°17'57	17°16	0 ¹¹ 40	21°18	29°51	27°27	4°29	7° 8	13°26	13°52	27°D53	27° 2	24°16	2° 8	F 5
S 6	9 1 18	16°18'49	0 ¹¹ 15	2°15	22°33	0 ¹¹ 26	27°28	4°36	7° 8	13°25	13°52	27°54	26°59	24°23	2°12	S 6
S 7	9 5 14	17°19'39	12°54	3°48	23°47	1° 0	27°29	4°43	7° 7	13°25	13°52	27°55	26°56	24°29	2°16	S 7
M 8	9 9 11	18°20'28	25°16	5°17	25° 2	1°35	27°30	4°51	7° 7	13°24	13°53	27°57	26°53	24°36	2°20	M 8
T 9	9 13 7	19°21'16	7 ¹¹ 25	6°43	26°17	2° 9	27°30	4°58	7° 7	13°23	13°53	27°58	26°49	24°43	2°25	T 9
W10	9 17 4	20°22'02	19°25	8° 4	27°31	2°43	27°31	5° 5	7° 7	13°22	13°53	27°59	26°46	24°49	2°29	W10
T 11	9 21 1	21°22'47	1 ¹¹ 19	9°21	28°46	3°18	27°31	5°12	7° 6	13°21	13°53	28°R 0	26°43	24°56	2°33	T 11
F 12	9 24 57	22°23'31	13° 9	10°31	0 ¹¹ 1	3°52	27°R31	5°19	7° 6	13°21	13°54	27°59	26°40	25° 3	2°37	F 12
S 13	9 28 54	23°24'13	24°58	11°34	1°15	4°26	27°31	5°26	7° 6	13°20	13°54	27°56	26°37	25° 9	2°41	S 13
S 14	9 32 50	24°24'54	6 ¹¹ 47	12°31	2°30	5° 0	27°31	5°34	7° 6	13°19	13°54	27°53	26°34	25°16	2°45	S 14
M15	9 36 47	25°25'33	18°39	13°19	3°45	5°34	27°30	5°41	7°D 6	13°18	13°55	27°48	26°30	25°23	2°49	M15
T 16	9 40 43	26°26'12	0 ¹¹ 36	13°59	5° 0	6° 8	27°29	5°48	7° 6	13°17	13°55	27°43	26°27	25°29	2°53	T 16
W17	9 44 40	27°26'49	12°39	14°29	6°14	6°41	27°28	5°55	7° 6	13°16	13°56	27°38	26°24	25°36	2°57	W17
T 18	9 48 36	28°27'24	24°51	14°49	7°29	7°15	27°27	6° 3	7° 6	13°15	13°56	27°33	26°21	25°43	3° 1	T 18
F 19	9 52 33	29°27'59	7 ¹¹ 16	14°R59	8°44	7°49	27°26	6°10	7° 7	13°14	13°57	27°29	26°18	25°49	3° 5	F 19
S 20	9 56 30	0 ¹¹ 28'32	19°56	14°59	9°58	8°22	27°25	6°17	7° 7	13°13	13°57	27°27	26°15	25°56	3°10	S 20
S 21	10 0 26	1°29'04	2 ¹¹ 55	14°48	11°13	8°56	27°23	6°24	7° 7	13°11	13°58	27°D27	26°11	26° 3	3°14	S 21
M22	10 4 23	2°29'35	16°17	14°27	12°28	9°29	27°21	6°32	7° 7	13°10	13°58	27°27	26° 8	26° 9	3°18	M22
T 23	10 8 19	3°30'05	0 ¹¹ 3	13°57	13°43	10° 3	27°19	6°39	7° 8	13° 9	13°59	27°29	26° 5	26°16	3°22	T 23
W24	10 12 16	4°30'33	14°14	13°17	14°57	10°36	27°17	6°46	7° 8	13° 8	13°59	27°30	26° 2	26°23	3°26	W24
T 25	10 16 12	5°31'01	28°51	12°30	16°12	11° 9	27°14	6°54	7° 9	13° 7	14° 0	27°R31	25°59	26°29	3°30	T 25
F 26	10 20 9	6°31'26	13 ¹¹ 48	11°37	17°27	11°42	27°12	7° 1	7°10	13° 5	14° 0	27°30	25°55	26°36	3°34	F 26
S 27	10 24 5	7°31'50	28°59	10°38	18°41	12°15	27° 9	7° 8	7°10	13° 4	14° 1	27°27	25°52	26°43	3°38	S 27
S 28	10 28 2	8°32'13	14 ¹¹ 15	9°36	19°56	12°47	27° 6	7°16	7°11	13° 3	14° 2	27°22	25°49	26°49	3°43	S 28
M29	10 31 59	9 ¹¹ 32'33	29 ¹¹ 24	8 ¹¹ 31	21 ¹¹ 11	13 ¹¹ 20	27 ¹¹ 3	7 ¹¹ 23	7 ¹¹ 12	13 ¹¹ 2	14 ¹¹ 2	27 ¹¹ 16	25 ¹¹ 46	26 ¹¹ 56	3 ¹¹ 47	M29

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat
M 1	17s24	7s23	4s14	14s55	1s29	22s15	0n11	18s43	0n54	9s14	1n22	11s26	1s31	21n26	0s 4	3s54	1n32	0n50	15s50	20n33	20n42
T 2	17 7	2 11	4 54	14 14	1 22	22 8	0 8	18 51	0 54	9 15	1 23	11 24	1 31	21 26	0 4	3 54	1 32	0 50	15 50	20 34	20 42
W 3	16 50	3n 0	5 14	13 32	1 14	22 1	0 5	19 0	0 53	9 15	1 23	11 21	1 31	21 26	0 4	3 54	1 32	0 51	15 50	20 34	20 43
T 4	16 32	7 52	5 15	12 49	1 5	21 53	0 3	19 8	0 53	9 15	1 23	11 19	1 31	21 26	0 4	3 53	1 32	0 51	15 49	20 34	20 44
F 5	16 14	12 12	4 59	12 6	0 56	21 45	0s 0	19 16	0 52	9 16	1 23	11 16	1 31	21 25	0 4	3 53	1 32	0 52	15 49	20 34	20 44
S 6	15 56	15 49	4 28	11 23	0 46	21 35	0 3	19 23	0 51	9 16	1 24	11 13	1 31	21 25	0 4	3 53	1 32	0 52	15 49	20 34	20 45
S 7	15 38	18 37	3 44	10 39	0 35	21 25	0 6	19 31	0 51	9 16	1 24	11 11	1 31	21 25	0 4	3 53	1 32	0 52	15 48	20 34	20 45
M 8	15 19	20 29	2 51	9 55	0 23	21 15	0 8	19 38	0 50	9 16	1 24	11 8	1 31	21 25	0 4	3 52	1 32	0 53	15 48	20 34	20 46
T 9	15 0	21 22	1 51	9 12	0 10	21 4	0 11	19 46	0 50	9 16	1 24	11 6	1 31	21 25	0 4	3 52	1 32	0 53	15 47	20 33	20 47
W10	14 41	21 14	0 47	8 30	0n 3	20 52	0 14	19 53	0 49	9 16	1 25	11 3	1 31	21 25	0 4	3 51	1 32	0 54	15 47	20 33	20 47
T 11	14 22	20 9	0n18	7 48	0 17	20 39	0 16	20 0	0 49	9 16	1 25	11 0	1 31	21 25	0 4	3 51	1 32	0 54	15 47	20 33	20 48
F 12	14 2	18 11	1 23	7 8	0 31	20 26	0 19	20 7	0 48	9 16	1 25	10 58	1 31	21 25	0 4	3 51	1 32	0 54	15 46	20 33	20 49
S 13	13 43	15 26	2 23	6 30	0 47	20 13	0 21	20 14	0 47	9 15	1 25	10 55	1 31	21 25	0 4	3 50	1 32	0 55	15 46	20 34	20 49
S 14	13 23	12 4	3 17	5 54	1 2	19 59	0 24	20 21	0 47	9 15	1 25	10 53	1 31	21 25	0 4	3 50	1 32	0 55	15 46	20 34	20 50
M15	13 2	8 13	4 3	5 21	1 18	19 44	0 26	20 28	0 46	9 15	1 26	10 50	1 31	21 25	0 4	3 50	1 32	0 56	15 45	20 35	20 50
T 16	12 42	4 2	4 39	4 51	1 34	19 28	0 29	20 34	0 45	9 14	1 26	10 47	1 31	21 25	0 4	3 49	1 32	0 56	15 45	20 36	20 51
W17	12 21	0s21	5 2	4 25	1 50	19 12	0 31	20 41	0 45	9 14	1 26	10 45	1 31	21 25	0 4	3 49	1 33	0 56	15 45	20 37	20 52
T 18	12 0	4 46	5 12	4 2	2 6	18 56	0 34	20 47	0 44	9 13	1 26	10 42	1 31	21 25	0 4	3 48	1 33	0 57	15 44	20 38	20 52
F 19	11 39	9 4	5 8	3 44	2 21	18 39	0 36	20 53	0 43	9 12	1 27	10 39	1 31	21 25	0 4	3 48	1 33	0 57	15 44	20 39	20 53
S 20	11 18	13 4	4 49	3 31	2 36	18 21	0 38	20 59	0 43	9 12	1 27	10 37	1 31	21 25	0 4	3 47	1 33	0 58	15 44	20 39	20 53
S 21	10 56	16 34	4 15	3 22	2 50	18 3	0 41	21 5	0 42	9 11	1 27	10 34	1 31	21 25	0 4	3 47	1 33	0 58	15 43	20 39	20 54
M22	10 35	19 18	3 26	3 18	3 3	17 44	0 43	21 11	0 41	9 10	1 27	10 31	1 31	21 26	0 4	3 46	1 33	0 59	15 43	20 39	20 55
T 23	10 13	21 1	2 24	3 19	3 14	17 25	0 45	21 16	0 41	9 9	1 28	10 29	1 31	21 26	0 4	3 46	1 33	0 59	15 43	20 39	20 55
W24	9 51	21 28	1 12	3 25	3 24	17 6	0 47	21 22	0 40	9 8	1 28	10 26	1 31	21 26	0 4	3 45	1 33	1 0	15 42	20 39	20 56
T 25	9 29	20 30	0s 7	3 36	3 32	16 45	0 49	21 27	0 39	9 7	1 28	10 23	1 31	21 26	0 4	3 45	1 33	1 0	15 42	20 39	20 56
F 26	9 7	18 4	1 28	3 51	3 38	16 25	0 51	21 33	0 38	9 6	1 28	10 21	1 31	21 26	0 4	3 44	1 33	1 1	15 42	20 39	20 57
S 27	8 44	14 22	2 43	4 9	3 41	16 4	0 53	21 38	0 37	9 5	1 28	10 18	1 31	21 26	0 4	3 44	1 33	1 1	15 41	20 39	20 57
S 28	8 22	9 41	3 47	4 31	3 43	15 42	0 55	21 43	0 37	9 3	1 29	10 15	1 31	21 26	0 4	3 43	1 33	1 2	15 41	20 40	20 58
M29	7s59	4s26	4s34	4s56	3n42	15s20	0s57	21s48	0n36	9s 2	1n29	10s13	1s32	21n26	0s 4	3s43	1n33	1n 2	15s41	20n42	20n59

Julian Day Number = 2492482.5, Delta T = 99.07 sec
Ecliptic obliquity = 23°25'25, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°18'23, Lahiri = 25°25'23

ASTRODIENST EPHEMERIS for the year 2112

geocentric

MARCH 2112

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 35 55	10 ^h 32'52"	14 ^h 17'	7°R27	22 ^h 25'	13 ^h 53'	27°R 0	7 ^h 30'	7 ^h 12'	13°R 0	14 ^h 3	27°R 9	25 ^h 43'	27 ^h 3	3 ^h 51'	T 1
W 2	10 39 52	11°33'09"	28°46'	6 ^h 23'	23°40'	14°25'	26 ^h 56'	7°38'	7°13'	12 ^h 59'	14°4	27 ^h 2	25°40'	27°9	3°55'	W 2
T 3	10 43 48	12°33'24"	12 ^h 8'	5°22'	24°55'	14°58'	26°53'	7°45'	7°14'	12°58'	14°4	26°57'	25°36'	27°16'	3°59'	T 3
F 4	10 47 45	13°33'37"	26°19'	4°25'	26°9	15°30'	26°49'	7°52'	7°15'	12°56'	14°5	26°54'	25°33'	27°23'	4°3	F 4
S 5	10 51 41	14°33'48"	9 ^h 22'	3°33'	27°24'	16°2	26°45'	7°59'	7°16'	12°55'	14°6	26°D52'	25°30'	27°29'	4°7	S 5
S 6	10 55 38	15°33'56"	22°1	2°46'	28°39'	16°34'	26°41'	8°7	7°17'	12°53'	14°7	26°52'	25°27'	27°36'	4°11'	S 6
M 7	10 59 34	16°34'03"	4 ^h 20'	2°6	29°53'	17°6	26°36'	8°14'	7°18'	12°52'	14°7	26°53'	25°24'	27°43'	4°15'	M 7
T 8	11 3 31	17°34'08"	16°24'	1°32'	1 ^h 8	17°38'	26°32'	8°21'	7°19'	12°51'	14°8	26°54'	25°21'	27°49'	4°19'	T 8
W 9	11 7 28	18°34'10"	28°18'	1°4	2°23'	18°9	26°27'	8°29'	7°21'	12°49'	14°9	26°R55'	25°17'	27°56'	4°23'	W 9
T 10	11 11 24	19°34'11"	10 ^h 8'	0°44'	3°37'	18°41'	26°22'	8°36'	7°22'	12°48'	14°10	26°54'	25°14'	28°3	4°27'	T 10
F 11	11 15 21	20°34'09"	21°54'	0°30'	4°52'	19°12'	26°17'	8°43'	7°23'	12°46'	14°11	26°50'	25°11'	28°9	4°31'	F 11
S 12	11 19 17	21°34'05"	3 ^h 43'	0°23'	6°7	19°43'	26°12'	8°50'	7°25'	12°45'	14°12	26°45'	25°8	28°16'	4°35'	S 12
S 13	11 23 14	22°34'00"	15°36'	0°D22'	7°21'	20°15'	26°7	8°57'	7°26'	12°43'	14°12	26°36'	25°5	28°23'	4°39'	S 13
M14	11 27 10	23°33'52"	27°35'	0°28'	8°36'	20°46'	26°2	9°5	7°27'	12°42'	14°13	26°26'	25°1	28°29'	4°43'	M14
T 15	11 31 7	24°33'42"	9 ^h 41'	0°39'	9°50'	21°16'	25°56'	9°12'	7°29'	12°40'	14°14	26°15'	24°58'	28°36'	4°47'	T 15
W16	11 35 3	25°33'31"	21°55'	0°56'	11°5	21°47'	25°50'	9°19'	7°30'	12°39'	14°15	26°4	24°55'	28°43'	4°51'	W16
T 17	11 39 0	26°33'17"	4 ^h 19'	1°18'	12°19'	22°18'	25°45'	9°26'	7°32'	12°37'	14°16	25°53'	24°52'	28°49'	4°55'	T 17
F 18	11 42 56	27°33'02"	16°53'	1°44'	13°34'	22°48'	25°39'	9°33'	7°34'	12°35'	14°17	25°45'	24°49'	28°56'	4°59'	F 18
S 19	11 46 53	28°32'46"	29°40'	2°16'	14°49'	23°18'	25°33'	9°40'	7°35'	12°34'	14°18	25°39'	24°46'	29°3	5°3	S 19
S 20	11 50 50	29°32'27"	12 ^h 41'	2°52'	16°3	23°48'	25°26'	9°47'	7°37'	12°32'	14°19	25°35'	24°42'	29°9	5°7	S 20
M21	11 54 46	0 ^h 32'07"	25°59'	3°32'	17°18'	24°18'	25°20'	9°54'	7°39'	12°31'	14°20	25°D34'	24°39'	29°16'	5°10'	M21
T 22	11 58 43	1°31'45"	9 ^h 36'	4°16'	18°32'	24°48'	25°14'	10°1	7°41'	12°29'	14°21	25°34'	24°36'	29°23'	5°14'	T 22
W23	12 2 39	2°31'22"	23°33'	5°3	19°47'	25°18'	25°7	10°8	7°43'	12°27'	14°22	25°R34'	24°33'	29°29'	5°18'	W23
T 24	12 6 36	3°30'56"	7 ^h 52'	5°54'	21°1	25°47'	25°1	10°15'	7°44'	12°26'	14°23	25°34'	24°30'	29°36'	5°22'	T 24
F 25	12 10 32	4°30'29"	22°31'	6°48'	22°16'	26°16'	24°54'	10°22'	7°46'	12°24'	14°24	25°31'	24°26'	29°43'	5°25'	F 25
S 26	12 14 29	5°30'00"	7 ^h 25'	7°44'	23°30'	26°46'	24°47'	10°29'	7°48'	12°22'	14°25	25°26'	24°23'	29°49'	5°29'	S 26
S 27	12 18 25	6°29'30"	22°27'	8°44'	24°45'	27°14'	24°40'	10°36'	7°50'	12°21'	14°27	25°18'	24°20'	29°56'	5°33'	S 27
M28	12 22 22	7°28'57"	7 ^h 19'	9°46'	25°59'	27°43'	24°33'	10°43'	7°53'	12°19'	14°28	25°8	24°17'	0 ^h 3	5°36'	M28
T 29	12 26 19	8°28'22"	22°20'	10°51'	27°14'	28°12'	24°26'	10°49'	7°55'	12°18'	14°29	24°57'	24°14'	0°9	5°40'	T 29
W30	12 30 15	9°27'45"	6 ^h 51'	11°59'	28°28'	28°40'	24°19'	10°56'	7°57'	12°16'	14°30	24°46'	24°11'	0°16'	5°44'	W30
T 31	12 34 12	10 ^h 27'06"	20 ^h 57'	13 ^h 8'	29 ^h 43'	29 ^h 8'	24 ^h 11'	11 ^h 3	7 ^h 59'	12 ^h 14'	14 ^h 31'	24 ^h 37'	24 ^h 7	0 ^h 23'	5 ^h 47'	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	7s36	1n 0	5s 2	5s23	3n39	14s58	0s59	21s52	0n35	9s 1	1n29	10s10	1s32	21n26	0s 4	3s42
W 2	7 14	6 13	5 9	5 51	3 34	14 35	1 1	21 57	0 34	8 59	1 29	10 7	1 32	21 27	0 4	3 42
T 3	6 51	10 56	4 58	6 19	3 27	14 12	1 3	22 2	0 33	8 58	1 29	10 5	1 32	21 27	0 4	3 41
F 4	6 28	14 56	4 30	6 48	3 18	13 48	1 5	22 6	0 32	8 56	1 30	10 2	1 32	21 27	0 4	3 41
S 5	6 4	18 5	3 49	7 16	3 8	13 24	1 6	22 10	0 31	8 54	1 30	9 59	1 32	21 27	0 3	3 40
S 6	5 41	20 14	2 57	7 44	2 57	13 0	1 8	22 14	0 31	8 53	1 30	9 57	1 32	21 27	0 3	3 39
M 7	5 18	21 22	1 59	8 10	2 44	12 35	1 9	22 18	0 30	8 51	1 30	9 54	1 32	21 27	0 3	3 39
T 8	4 55	21 29	0 56	8 34	2 31	12 10	1 11	22 22	0 29	8 49	1 30	9 51	1 32	21 28	0 3	3 38
W 9	4 31	20 37	0n 8	8 57	2 17	11 45	1 12	22 26	0 28	8 47	1 31	9 49	1 32	21 28	0 3	3 38
T 10	4 8	18 50	1 11	9 17	2 3	11 19	1 14	22 30	0 27	8 46	1 31	9 46	1 32	21 28	0 3	3 37
F 11	3 44	16 15	2 10	9 35	1 49	10 53	1 15	22 34	0 26	8 44	1 31	9 43	1 32	21 28	0 3	3 36
S 12	3 21	13 0	3 4	9 51	1 35	10 27	1 16	22 37	0 25	8 42	1 31	9 41	1 32	21 29	0 3	3 36
S 13	2 57	9 13	3 51	10 5	1 20	10 0	1 17	22 40	0 24	8 40	1 31	9 38	1 32	21 29	0 3	3 35
M14	2 33	5 3	4 27	10 16	1 6	9 33	1 18	22 44	0 23	8 37	1 31	9 36	1 33	21 29	0 3	3 35
T 15	2 10	0 38	4 52	10 25	0 52	9 6	1 20	22 47	0 21	8 35	1 32	9 33	1 33	21 29	0 3	3 34
W16	1 46	3s50	5 3	10 32	0 39	8 39	1 21	22 50	0 20	8 33	1 32	9 30	1 33	21 30	0 3	3 33
T 17	1 22	8 13	5 1	10 37	0 25	8 11	1 21	22 53	0 19	8 31	1 32	9 28	1 33	21 30	0 3	3 33
F 18	0 58	12 20	4 44	10 39	0 13	7 44	1 22	22 56	0 18	8 29	1 32	9 25	1 33	21 30	0 3	3 32
S 19	0 35	15 57	4 13	10 40	0 0	7 16	1 23	22 58	0 17	8 26	1 32	9 23	1 33	21 30	0 3	3 31
S 20	0 11	18 52	3 28	10 38	0s12	6 47	1 24	23 1	0 16	8 24	1 32	9 20	1 33	21 31	0 3	3 31
M21	0n13	20 51	2 31	10 34	0 24	6 19	1 25	23 4	0 14	8 22	1 32	9 17	1 33	21 31	0 3	3 30
T 22	0 36	21 41	1 24	10 29	0 35	5 50	1 25	23 6	0 13	8 19	1 33	9 15	1 33	21 31	0 3	3 30
W23	1 0	21 12	0 11	10 21	0 45	5 22	1 26	23 9	0 12	8 17	1 33	9 12	1 33	21 32	0 3	3 29
T 24	1 24	19 20	1s 5	10 12	0 55	4 53	1 26	23 11	0 11	8 14	1 33	9 10	1 34	21 32	0 3	3 28
F 25	1 47	16 10	2 18	10 1	1 5	4 24	1 27	23 13	0 9	8 12	1 33	9 7	1 34	21 32	0 3	3 28
S 26	2 11	11 55	3 23	9 48	1 14	3 55	1 27	23 15	0 8	8 9	1 33	9 5	1 34	21 33	0 3	3 27
S 27	2 35	6 53	4 14	9 34	1 23	3 25	1 27	23 17	0 7	8 6	1 33	9 2	1 34	21 33	0 3	3 26
M28	2 58	1 26	4 48	9 18	1 31	2 56	1 28	23 19	0 5	8 4	1 33	9 0	1 34	21 33	0 3	3 26
T 29	3 21	4n 1	5 1	9 0	1 38	2 27	1 28	23 21	0 4	8 1	1 33	8 57	1 34	21 34	0 3	3 25
W30	3 45	9 8	4 55	8 41	1 45	1 57	1 28	23 23	0 2	7 58	1 33	8 55	1 34	21 34	0 3	3 24
T 31	4n 8	13n37	4s31	8s21	1s52	1s28	1s28	23s24	0n 1	7s56	1n33	8s52	1s34	21n34	0s 3	3s24

Julian Day Number = 2492511.5, Delta T = 99.11 sec
 Ecliptic obliquity = 23°25'26", Nutation = - 0°00'15", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°18'27", Lahiri = 25°25'27"

ASTRODIENST EPHEMERIS for the year 2112

geocentric

APRIL 2112

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 38 8	11°26'25	4°35	14°20	0°57	29°36	24°R 4	11°10	8°11	12°R13	14°32	24°R29	24°4	0°29	5°51	F 1
S 2	12 42 5	12°25'41	17°44	15°34	2°11	0°3	23°57	11°16	8°4	12°11	14°33	24°25	24°1	0°36	5°54	S 2
S 3	12 46 1	13°24'56	0°27	16°49	3°26	0°31	23°49	11°23	8°6	12°9	14°35	24°23	23°58	0°43	5°58	S 3
M 4	12 49 58	14°24'08	12°49	18°7	4°40	0°58	23°42	11°29	8°8	12°8	14°36	24°D22	23°55	0°49	6°1	M 4
T 5	12 53 54	15°23'17	24°54	19°27	5°55	1°25	23°34	11°36	8°11	12°6	14°37	24°R22	23°52	0°56	6°4	T 5
W 6	12 57 51	16°22'24	6°48	20°48	7°9	1°52	23°27	11°42	8°13	12°4	14°38	24°22	23°48	1°3	6°8	W 6
T 7	13 1 48	17°21'29	18°37	22°11	8°23	2°18	23°19	11°49	8°16	12°3	14°39	24°20	23°45	1°10	6°11	T 7
F 8	13 5 44	18°20'32	0°24	23°36	9°38	2°44	23°12	11°55	8°18	12°1	14°41	24°15	23°42	1°16	6°14	F 8
S 9	13 9 41	19°19'32	12°16	25°3	10°52	3°10	23°4	12°1	8°21	11°59	14°42	24°8	23°39	1°23	6°18	S 9
S 10	13 13 37	20°18'31	24°13	26°31	12°6	3°36	22°56	12°8	8°23	11°58	14°43	23°58	23°36	1°30	6°21	S 10
M 11	13 17 34	21°17'27	6°21	28°1	13°21	4°2	22°49	12°14	8°26	11°56	14°44	23°46	23°32	1°36	6°24	M 11
T 12	13 21 30	22°16'21	18°38	29°33	14°35	4°27	22°41	12°20	8°29	11°55	14°46	23°32	23°29	1°43	6°27	T 12
W 13	13 25 27	23°15'13	1°7	1°6	15°49	4°52	22°33	12°26	8°31	11°53	14°47	23°18	23°26	1°50	6°30	W 13
T 14	13 29 23	24°14'03	13°47	2°41	17°3	5°16	22°25	12°32	8°34	11°51	14°48	23°6	23°23	1°56	6°33	T 14
F 15	13 33 20	25°12'51	26°39	4°17	18°18	5°41	22°18	12°39	8°37	11°50	14°50	22°55	23°20	2°3	6°36	F 15
S 16	13 37 17	26°11'37	9°42	5°55	19°32	6°5	22°10	12°45	8°39	11°48	14°51	22°47	23°17	2°10	6°39	S 16
S 17	13 41 13	27°10'22	22°56	7°35	20°46	6°29	22°2	12°50	8°42	11°46	14°52	22°42	23°13	2°16	6°42	S 17
M 18	13 45 10	28°9'05	6°22	9°16	22°0	6°52	21°55	12°56	8°45	11°45	14°53	22°40	23°10	2°23	6°45	M 18
T 19	13 49 6	29°7'46	20°1	10°58	23°14	7°15	21°47	13°2	8°48	11°43	14°55	22°39	23°7	2°30	6°48	T 19
W 20	13 53 3	0°6'26	3°54	12°43	24°29	7°38	21°40	13°8	8°51	11°42	14°56	22°39	23°4	2°36	6°51	W 20
T 21	13 56 59	1°5'04	18°1	14°29	25°43	8°0	21°32	13°14	8°54	11°40	14°57	22°38	23°1	2°43	6°54	T 21
F 22	14 0 56	2°3'40	2°22	16°16	26°57	8°23	21°25	13°19	8°57	11°39	14°59	22°36	22°58	2°50	6°57	F 22
S 23	14 4 52	3°2'15	16°54	18°6	28°11	8°44	21°17	13°25	9°0	11°37	15°0	22°30	22°54	2°56	6°59	S 23
S 24	14 8 49	4°0'48	1°32	19°56	29°25	9°6	21°10	13°31	9°3	11°36	15°1	22°23	22°51	3°3	7°2	S 24
M 25	14 12 46	4°59'19	16°11	21°49	0°40	9°27	21°2	13°36	9°6	11°34	15°3	22°13	22°48	3°10	7°4	M 25
T 26	14 16 42	5°57'48	0°43	23°43	1°54	9°47	20°55	13°41	9°9	11°33	15°4	22°1	22°45	3°16	7°7	T 26
W 27	14 20 39	6°56'16	15°1	25°39	3°8	10°8	20°48	13°47	9°12	11°31	15°5	21°50	22°42	3°23	7°10	W 27
T 28	14 24 35	7°54'41	28°58	27°36	4°22	10°27	20°41	13°52	9°15	11°30	15°7	21°40	22°38	3°30	7°12	T 28
F 29	14 28 32	8°53'05	12°32	29°35	5°36	10°47	20°34	13°57	9°18	11°28	15°8	21°32	22°35	3°36	7°14	F 29
S 30	14 32 28	9°51'27	25°40	1°36	6°50	11°3	20°27	14°2	9°11	11°27	15°9	21°27	22°32	3°43	7°17	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	4n31	17n15	3s52	7s59	1s58	0s58	1s28	23s26	0s 1	7s53	1n33	8s50	1s35	21n35	0s 3	3s23	1n34	1n18	15s33	21n13	21n17	14n 9	4s13	5n32			
S 2	4 54	19 51	3 1	7 35	2 4	0 28	1 28	23 28	0 2	7 50	1 33	8 48	1 35	21 35	0 3	3 22	1 34	1 19	15 32	21 13	21 17	14 7	4 11	5 32			
S 3	5 18	21 22	2 3	7 11	2 9	0n 1	1 28	23 29	0 4	7 47	1 34	8 45	1 35	21 36	0 3	3 22	1 34	1 19	15 32	21 14	21 18	14 6	4 10	5 32			
M 4	5 40	21 48	1 1	6 44	2 13	0 31	1 27	23 30	0 5	7 45	1 34	8 43	1 35	21 36	0 3	3 21	1 34	1 20	15 32	21 14	21 19	14 4	4 8	5 33			
T 5	6 3	21 11	0n 3	6 17	2 17	1 1	1 27	23 32	0 7	7 42	1 34	8 40	1 35	21 36	0 3	3 20	1 34	1 20	15 32	21 14	21 19	14 2	4 7	5 33			
W 6	6 26	19 37	1 5	5 48	2 21	1 30	1 27	23 33	0 9	7 39	1 34	8 38	1 35	21 37	0 3	3 20	1 34	1 21	15 32	21 14	21 20	14 1	4 6	5 33			
T 7	6 49	17 13	2 5	5 18	2 24	2 0	1 26	23 34	0 10	7 36	1 34	8 36	1 35	21 37	0 3	3 19	1 34	1 21	15 31	21 14	21 20	13 59	4 4	5 33			
F 8	7 11	14 6	2 58	4 47	2 27	2 30	1 26	23 36	0 12	7 33	1 34	8 33	1 35	21 38	0 3	3 19	1 34	1 22	15 31	21 15	21 21	13 57	4 3	5 33			
S 9	7 34	10 25	3 44	4 14	2 29	2 59	1 25	23 37	0 14	7 31	1 34	8 31	1 36	21 38	0 3	3 18	1 34	1 22	15 31	21 16	21 21	13 55	4 2	5 33			
S 10	7 56	6 17	4 21	3 41	2 30	3 29	1 25	23 38	0 15	7 28	1 34	8 29	1 36	21 38	0 3	3 17	1 34	1 23	15 31	21 18	21 22	13 54	4 0	5 34			
M11	8 18	1 52	4 46	3 6	2 31	3 58	1 24	23 39	0 17	7 25	1 34	8 27	1 36	21 39	0 3	3 17	1 34	1 23	15 31	21 20	21 22	13 52	3 59	5 34			
T 12	8 40	2s41	4 59	2 30	2 32	4 28	1 23	23 40	0 19	7 22	1 34	8 24	1 36	21 39	0 3	3 16	1 34	1 24	15 31	21 22	21 23	13 50	3 58	5 34			
W13	9 2	7 13	4 57	1 53	2 32	4 57	1 22	23 41	0 21	7 19	1 34	8 22	1 36	21 40	0 3	3 15	1 34	1 24	15 31	21 25	21 23	13 48	3 56	5 34			
T 14	9 23	11 30	4 41	1 15	2 32	5 26	1 22	23 42	0 23	7 16	1 34	8 20	1 36	21 40	0 3	3 15	1 34	1 25	15 30	21 27	21 24	13 47	3 55	5 34			
F 15	9 45	15 20	4 10	0 36	2 31	5 55	1 21	23 43	0 25	7 14	1 34	8 18	1 37	21 41	0 3	3 14	1 34	1 25	15 30	21 29	21 25	13 45	3 54	5 34			
S 16	10 6	18 30	3 26	0n 4	2 29	6 24	1 20	23 44	0 27	7 11	1 34	8 16	1 37	21 41	0 3	3 13	1 34	1 26	15 30	21 30	21 25	13 43	3 52	5 35			
S 17	10 28	20 44	2 30	0 45	2 27	6 53	1 19	23 45	0 29	7 8	1 34	8 14	1 37	21 41	0 3	3 13	1 34	1 26	15 30	21 31	21 26	13 41	3 51	5 35			
M18	10 49	21 51	1 25	1 27	2 25	7 22	1 18	23 45	0 31	7 5	1 33	8 11	1 37	21 42	0 3	3 12	1 34	1 26	15 30	21 31	21 26	13 40	3 50	5 35			
T 19	11 9	21 42	0 14	2 10	2 22	7 50	1 16	23 46	0 33	7 2	1 33	8 9	1 37	21 42	0 3	3 12	1 34	1 27	15 30	21 31	21 27	13 38	3 49	5 35			
W20	11 30	20 14	0s59	2 54	2 18	8 19	1 15	23 47	0 35	7 0	1 33	8 7	1 37	21 43	0 3	3 11	1 34	1 27	15 30	21 31	21 27	13 36	3 48	5 35			
T 21	11 51	17 29	2 10	3 39	2 14	8 47	1 14	23 48	0 37	6 57	1 33	8 5	1 38	21 43	0 3	3 10	1 34	1 28	15 30	21 31	21 28	13 34	3 46	5 36			
F 22	12 11	13 38	3 14	4 24	2 10	9 15	1 13	23 49	0 39	6 54	1 33	8 3	1 38	21 44	0 3	3 10	1 34	1 28	15 30	21 32	21 28	13 32	3 45	5 36			
S 23	12 31	8 56	4 5	5 10	2 5	9 43	1 11	23 50	0 42	6 51	1 33	8 1	1 38	21 44	0 3	3 9	1 34	1 29	15 29	21 33	21 29	13 31	3 44	5 36			
S 24	12 51	3 42	4 42	5 57	1 59	10 10	1 10	23 51	0 44	6 49	1 33	7 59	1 38	21 45	0 3	3 9	1 34	1 29	15 29	21 34	21 29	13 29	3 43	5 36			
M25	13 11	1n45	4 59	6 45	1 53	10 38	1 9	23 51	0 46	6 46	1 33	7 57	1 38	21 45	0 3	3 8	1 34	1 30	15 29	21 36	21 30	13 27	3 42	5 37			
T 26	13 30	7 4	4 58	7 33	1 46	11 5	1 7	23 52	0 49	6 44	1 33	7 55	1 38	21 46	0 3	3 8	1 34	1 30	15 29	21 37	21 30	13 25	3 40	5 37			
W27	13 49	11 55	4 37	8 22	1 40	11 31	1 5	23 53	0 51	6 41	1 33	7 54	1 39	21 46	0 3	3 7	1 34	1 31	15 29	21 39	21 31	13 23	3 39	5 37			
T 28	14 8	16 0	4 0	9 11	1 32	11 58	1 4	23 54	0 53	6 38	1 33	7 52	1 39	21 47	0 3	3 7	1 34	1 31	15 29	21 41	21 31	13 22	3 38	5 37			
F 29	14 27	19 8	3 11	10 0	1 24	12 24	1 2	23 55	0 56	6 36	1 32	7 50	1 39	21 47	0 3	3 6	1 34	1 31	15 29	21 42	21 32	13 20	3 37	5 38			
S 30	14n46	21n 9	2s12	10n50	1s16	12n50	1s 0	23s56	0s59	6s33	1n32	7s48	1s39	21n48	0s 3	3s 5	1n34	1n32	15s29	21n43	21n32	13n18	3s36	5n38			

ASTRODIENST EPHEMERIS for the year 2112

geocentric

MAY 2112

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 36 25	10°8'49"47	8°25'	3°38'	8°4'	11°24'	20°R20	14°8'	9°25'	11°R26	15°8'11	21°R25	22°29'	3°50'	7°19'	S 1	
M 2	14 40 21	11°48'05	20°49'	5°41'	9°18'	11°43'	20°A13	14°13'	9°28'	11°A24	15°12'	21°D24	22°26'	3°56'	7°21'	M 2	
T 3	14 44 18	12°46'21	2°15'56	7°46'	10°32'	12°0'	20°6'	14°18'	9°31'	11°23'	15°14'	21°D24	22°23'	4°3'	7°24'	T 3	
W 4	14 48 15	13°44'35	14°53'	9°53'	11°46'	12°17'	20°0'	14°22'	9°34'	11°21'	15°15'	21°R25	22°19'	4°10'	7°26'	W 4	
T 5	14 52 11	14°42'46	26°43'	12°0'	13°0'	12°34'	19°53'	14°27'	9°37'	11°20'	15°16'	21°24'	22°16'	4°16'	7°28'	T 5	
F 6	14 56 8	15°40'56	8°33'	14°8'	14°14'	12°51'	19°47'	14°32'	9°41'	11°19'	15°18'	21°21'	22°13'	4°23'	7°30'	F 6	
S 7	15 0 4	16°39'04	20°27'	16°17'	15°28'	13°6'	19°41'	14°37'	9°44'	11°18'	15°19'	21°16'	22°10'	4°30'	7°32'	S 7	
S 8	15 4 1	17°37'09	2°30'	18°27'	16°42'	13°22'	19°35'	14°41'	9°47'	11°16'	15°20'	21°9'	22°7'	4°36'	7°34'	S 8	
M 9	15 7 57	18°35'13	14°44'	20°37'	17°56'	13°36'	19°29'	14°46'	9°51'	11°15'	15°22'	21°0'	22°3'	4°43'	7°36'	M 9	
T 10	15 11 54	19°33'15	27°13'	22°48'	19°10'	13°51'	19°23'	14°50'	9°54'	11°14'	15°23'	20°49'	22°0'	4°50'	7°38'	T 10	
W11	15 15 50	20°31'16	9°56'	24°58'	20°24'	14°5'	19°17'	14°55'	9°57'	11°13'	15°24'	20°38'	21°57'	4°57'	7°40'	W11	
T 12	15 19 47	21°29'15	22°54'	27°8'	21°38'	14°18'	19°12'	14°59'	10°1'	11°11'	15°26'	20°28'	21°54'	5°3'	7°41'	T 12	
F 13	15 23 43	22°27'12	6°7'	29°17'	22°52'	14°30'	19°6'	15°3'	10°4'	11°10'	15°27'	20°20'	21°51'	5°10'	7°43'	F 13	
S 14	15 27 40	23°25'08	19°32'	1°25'	24°6'	14°43'	19°1'	15°7'	10°8'	11°9'	15°28'	20°14'	21°48'	5°17'	7°45'	S 14	
S 15	15 31 37	24°23'02	3°8'	3°32'	25°20'	14°54'	18°56'	15°11'	10°11'	11°8'	15°30'	20°10'	21°44'	5°23'	7°46'	S 15	
M16	15 35 33	25°20'55	16°53'	5°37'	26°34'	15°5'	18°51'	15°15'	10°14'	11°7'	15°31'	20°D9'	21°41'	5°30'	7°48'	M16	
T 17	15 39 30	26°18'47	0°46'	7°40'	27°47'	15°16'	18°46'	15°19'	10°18'	11°6'	15°33'	20°9'	21°38'	5°37'	7°49'	T 17	
W18	15 43 26	27°16'38	14°47'	9°42'	29°1'	15°25'	18°41'	15°23'	10°21'	11°5'	15°34'	20°10'	21°35'	5°43'	7°51'	W18	
T 19	15 47 23	28°14'27	28°53'	11°41'	0°11'	15°34'	18°36'	15°27'	10°25'	11°4'	15°35'	20°R11'	21°32'	5°50'	7°52'	T 19	
F 20	15 51 19	29°12'16	13°5'	13°38'	1°29'	15°43'	18°32'	15°30'	10°28'	11°3'	15°37'	20°10'	21°29'	5°57'	7°53'	F 20	
S 21	15 55 16	0°11'00"3	27°20'	15°32'	2°43'	15°51'	18°28'	15°34'	10°32'	11°2'	15°38'	20°7'	21°25'	6°3'	7°55'	S 21	
S 22	15 59 12	1°7'49	11°36'	17°24'	3°57'	15°58'	18°23'	15°37'	10°35'	11°1'	15°39'	20°2'	21°22'	6°10'	7°56'	S 22	
M23	16 3 9	2°5'34	25°48'	19°13'	5°11'	16°4'	18°19'	15°41'	10°39'	11°0'	15°40'	19°56'	21°19'	6°17'	7°57'	M23	
T 24	16 7 6	3°3'17	9°53'	20°58'	6°24'	16°10'	18°16'	15°44'	10°42'	10°59'	15°42'	19°48'	21°16'	6°23'	7°58'	T 24	
W25	16 11 2	4°1'00	23°46'	22°41'	7°38'	16°15'	18°12'	15°47'	10°46'	10°58'	15°43'	19°41'	21°13'	6°30'	7°59'	W25	
T 26	16 14 59	4°58'42	7°23'	24°21'	8°52'	16°20'	18°8'	15°51'	10°49'	10°57'	15°44'	19°34'	21°9'	6°37'	8°0'	T 26	
F 27	16 18 55	5°56'22	20°41'	25°58'	10°6'	16°23'	18°5'	15°54'	10°53'	10°57'	15°46'	19°29'	21°6'	6°43'	8°1'	F 27	
S 28	16 22 52	6°54'01	3°40'	27°32'	11°20'	16°26'	18°2'	15°57'	10°56'	10°56'	15°47'	19°26'	21°3'	6°50'	8°2'	S 28	
S 29	16 26 48	7°51'38	16°19'	29°2'	12°33'	16°29'	17°59'	15°59'	11°0'	10°55'	15°48'	19°D25'	21°0'	6°57'	8°3'	S 29	
M30	16 30 45	8°49'15	28°41'	0°29'	13°47'	16°30'	17°56'	16°2'	11°3'	10°54'	15°50'	19°25'	20°57'	7°4'	8°3'	M30	
T 31	16 34 42	9°46'49	10°48'	1°53'	15°11'	16°31'	17°54'	16°5'	11°7'	10°54'	15°51'	19°27'	20°54'	7°10'	8°4'	T 31	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	15n 4	22n 1	1s 9	11n40	1s 7	13n16	0s59	23s57	1s 1	6s31	1n32	7s46	1s39	21n48	0s 3	3s 5	1n34
M 2	15 22	21 46	0 3	12 30	0 58	13 41	0 57	23 58	1 4	6 28	1 32	7 44	1 40	21 49	0 3	3 4	1 34
T 3	15 40	20 29	1n 1	13 20	0 48	14 6	0 55	23 59	1 6	6 26	1 32	7 43	1 40	21 49	0 3	3 4	1 33
W 4	15 57	18 18	2 2	14 9	0 39	14 31	0 53	24 0	1 9	6 24	1 32	7 41	1 40	21 49	0 3	3 3	1 33
T 5	16 14	15 22	2 56	14 58	0 29	14 55	0 51	24 1	1 12	6 22	1 32	7 39	1 40	21 50	0 3	3 3	1 33
F 6	16 31	11 49	3 44	15 47	0 18	15 19	0 49	24 3	1 15	6 19	1 31	7 38	1 40	21 50	0 3	3 2	1 33
S 7	16 48	7 47	4 21	16 34	0 8	15 42	0 47	24 4	1 18	6 17	1 31	7 36	1 40	21 51	0 3	3 2	1 33
S 8	17 5	3 25	4 48	17 21	0n 3	16 6	0 45	24 5	1 21	6 15	1 31	7 34	1 41	21 51	0 3	3 1	1 33
M 9	17 21	1s10	5 2	18 6	0 13	16 28	0 43	24 7	1 24	6 13	1 31	7 33	1 41	21 52	0 3	3 1	1 33
T 10	17 37	5 47	5 2	18 50	0 24	16 51	0 41	24 8	1 27	6 11	1 31	7 31	1 41	21 52	0 3	3 1	1 33
W11	17 52	10 15	4 47	19 33	0 34	17 12	0 39	24 10	1 30	6 9	1 31	7 30	1 41	21 53	0 3	3 0	1 33
T 12	18 7	14 20	4 17	20 14	0 44	17 34	0 37	24 12	1 33	6 7	1 30	7 28	1 41	21 54	0 3	3 0	1 33
F 13	18 22	17 49	3 33	20 52	0 54	17 55	0 35	24 13	1 36	6 5	1 30	7 27	1 42	21 54	0 3	2 59	1 33
S 14	18 37	20 25	2 36	21 29	1 4	18 15	0 33	24 15	1 39	6 3	1 30	7 26	1 42	21 55	0 3	2 59	1 33
S 15	18 51	21 53	1 30	22 3	1 13	18 35	0 31	24 17	1 42	6 1	1 30	7 24	1 42	21 55	0 3	2 58	1 33
M16	19 5	22 4	0 18	22 35	1 22	18 55	0 28	24 19	1 46	6 0	1 30	7 23	1 42	21 56	0 3	2 58	1 33
T 17	19 19	20 54	0s57	23 4	1 30	19 14	0 26	24 22	1 49	5 58	1 29	7 21	1 43	21 56	0 3	2 58	1 33
W18	19 32	18 26	2 8	23 30	1 38	19 32	0 24	24 24	1 53	5 56	1 29	7 20	1 43	21 57	0 3	2 57	1 33
T 19	19 45	14 52	3 13	23 55	1 45	19 50	0 21	24 26	1 56	5 55	1 29	7 19	1 43	21 57	0 3	2 57	1 33
F 20	19 58	10 25	4 6	24 16	1 52	20 8	0 19	24 29	2 0	5 53	1 29	7 18	1 43	21 58	0 3	2 57	1 33
S 21	20 10	5 24	4 44	24 35	1 57	20 25	0 17	24 31	2 3	5 52	1 29	7 17	1 43	21 58	0 3	2 56	1 33
S 22	20 22	0 5	5 4	24 51	2 2	20 41	0 14	24 34	2 7	5 51	1 28	7 15	1 44	21 59	0 3	2 56	1 33
M23	20 34	5n13	5 6	25 5	2 6	20 57	0 12	24 37	2 11	5 49	1 28	7 14	1 44	21 59	0 3	2 56	1 33
T 24	20 45	10 12	4 49	25 16	2 10	21 12	0 10	24 40	2 14	5 48	1 28	7 13	1 44	22 0	0 3	2 55	1 33
W25	20 56	14 35	4 15	25 25	2 12	21 27	0 7	24 43	2 18	5 47	1 28	7 12	1 44	22 0	0 3	2 55	1 33
T 26	21 7	18 7	3 27	25 32	2 14	21 41	0 5	24 47	2 22	5 46	1 27	7 11	1 45	22 1	0 3	2 55	1 33
F 27	21 17	20 37	2 29	25 37	2 15	21 54	0 3	24 50	2 26	5 45	1 27	7 10	1 45	22 1	0 3	2 54	1 33
S 28	21 27	21 58	1 24	25 39	2 15	22 7	0 0	24 53	2 30	5 44	1 27	7 9	1 45	22 2	0 3	2 54	1 33
S 29	21 36	22 9	0 17	25 39	2 14	22 19	0n 2	24 57	2 34	5 43	1 27	7 8	1 45	22 2	0 3	2 54	1 33
M30	21 45	21 14	0n50	25 38	2 13	22 31	0 5	25 1	2 38	5 42	1 26	7 7	1 45	22 3	0 3	2 54	1 33
T 31	21n54	19n20	1n54	25n35	2n10	22n42	0n 7	25s 5	2s42	5s41	1n26	7s 7	1s46	22n 3	0s 3	2s53	1n33

Julian Day Number = 2492572.5, Delta T = 99.20 sec
 Ecliptic obliquity = 23°25'25", Nutation = - 0°00'17", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°18'35", Lahiri = 25°25'36"

ASTRODIENST EPHEMERIS for the year 2112
geocentric

JUNE 2112

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 38 38	10II44'23	22Ω45	3♂14	16II15	16°R31	17°R51	16♂ 7	11II10	10°R53	15♂52	19♂28	20♂50	7♂17	8♂ 5	W 1
T 2	16 42 35	11°41'55	4♂37	4°32	17°29	16♂30	17♂49	16°10	11°14	10♂52	15°53	19°29	20°47	7°24	8° 5	T 2
F 3	16 46 31	12°39'26	16°29	5°46	18°42	16°29	17°47	16°12	11°17	10°52	15°55	19°R29	20°44	7°30	8° 6	F 3
S 4	16 50 28	13°36'55	28°24	6°56	19°56	16°27	17°45	16°15	11°21	10°51	15°56	19°28	20°41	7°37	8° 6	S 4
S 5	16 54 24	14°34'23	10♂29	8° 3	21°10	16°24	17°43	16°17	11°24	10°51	15°57	19°26	20°38	7°44	8° 7	S 5
M 6	16 58 21	15°31'50	22°48	9° 7	22°23	16°20	17°42	16°19	11°28	10°50	15°58	19°22	20°35	7°50	8° 7	M 6
T 7	17 2 17	16°29'16	5♂22	10° 7	23°37	16°16	17°40	16°21	11°32	10°50	15°59	19°17	20°31	7°57	8° 7	T 7
W 8	17 6 14	17°26'41	18°16	11° 3	24°51	16°11	17°39	16°23	11°35	10°49	16° 1	19°12	20°28	8° 4	8° 7	W 8
T 9	17 10 11	18°24'04	1♂28	11°56	26° 4	16° 5	17°38	16°25	11°39	10°49	16° 2	19° 7	20°25	8°10	8° 8	T 9
F 10	17 14 7	19°21'27	15° 0	12°44	27°18	15°58	17°37	16°27	11°42	10°49	16° 3	19° 3	20°22	8°17	8° 8	F 10
S 11	17 18 4	20°18'49	28°48	13°29	28°32	15°51	17°37	16°28	11°46	10°48	16° 4	19° 0	20°19	8°24	8°R 8	S 11
S 12	17 22 0	21°16'10	12♂49	14°10	29°45	15°43	17°36	16°30	11°49	10°48	16° 5	18°D59	20°15	8°30	8° 8	S 12
M13	17 25 57	22°13'31	27° 0	14°46	0♂59	15°34	17°36	16°31	11°53	10°48	16° 6	18°59	20°12	8°37	8° 8	M13
T 14	17 29 53	23°10'51	11♂17	15°19	2°13	15°24	17°D36	16°33	11°56	10°47	16° 8	19° 0	20° 9	8°44	8° 7	T 14
W15	17 33 50	24° 8'10	25°36	15°47	3°26	15°14	17°36	16°34	12° 0	10°47	16° 9	19° 1	20° 6	8°51	8° 7	W15
T 16	17 37 46	25° 5'29	9♂54	16°11	4°40	15° 3	17°36	16°35	12° 3	10°47	16°10	19° 2	20° 3	8°57	8° 7	T 16
F 17	17 41 43	26° 2'48	24° 8	16°30	5°54	14°52	17°37	16°36	12° 6	10°47	16°11	19°R 3	20° 0	9° 4	8° 7	F 17
S 18	17 45 40	27° 0'06	8♂16	16°45	7° 7	14°40	17°37	16°37	12°10	10°47	16°12	19° 3	19°56	9°11	8° 6	S 18
S 19	17 49 36	27°57'24	22°16	16°55	8°21	14°27	17°38	16°38	12°13	10°47	16°13	19° 1	19°53	9°17	8° 6	S 19
M20	17 53 33	28°54'41	6♂ 7	17° 1	9°35	14°13	17°39	16°39	12°17	10°46	16°14	18°59	19°50	9°24	8° 5	M20
T 21	17 57 29	29°51'59	19°46	17°R 2	10°48	13°59	17°40	16°39	12°20	10°46	16°15	18°57	19°47	9°31	8° 5	T 21
W22	18 1 26	0♂49'16	3II12	16°58	12° 2	13°45	17°42	16°40	12°24	10°D46	16°16	18°54	19°44	9°37	8° 4	W22
T 23	18 5 22	1°46'33	16°24	16°50	13°15	13°30	17°43	16°40	12°27	10°46	16°17	18°52	19°41	9°44	8° 3	T 23
F 24	18 9 19	2°43'49	29°21	16°38	14°29	13°14	17°45	16°41	12°30	10°46	16°18	18°50	19°37	9°51	8° 3	F 24
S 25	18 13 15	3°41'05	12♂ 3	16°22	15°43	12°58	17°47	16°41	12°34	10°47	16°19	18°50	19°34	9°57	8° 2	S 25
S 26	18 17 12	4°38'21	24°30	16° 2	16°56	12°42	17°49	16°41	12°37	10°47	16°20	18°D49	19°31	10° 4	8° 1	S 26
M27	18 21 9	5°35'36	6♂45	15°38	18°10	12°25	17°51	16°R41	12°40	10°47	16°21	18°50	19°28	10°11	8° 0	M27
T 28	18 25 5	6°32'51	18°49	15°11	19°23	12° 8	17°53	16°41	12°44	10°47	16°22	18°51	19°25	10°18	7°59	T 28
W29	18 29 2	7°30'05	0♂45	14°41	20°37	11°50	17°56	16°41	12°47	10°47	16°23	18°52	19°21	10°24	7°58	W29
T 30	18 32 58	8♂27'19	12♂36	14♂ 9	21♂51	11♂33	17♂58	16♂41	12II50	10♂48	16♂24	18♂53	19♂18	10♂31	7♂57	T 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	22n 2	16n37	2n51	25n30	2n 7	22n52	0n 9	25s 9	2s46	5s41	1n26	7s 6	1s46	22n 4	0s 3	2s53	1n33	1n42	15s30	22n 1	21n49	12n18	3s10	5n47	
T 2	22 10	13 14	3 41	25 24	2 3	23 2	0 12	25 13	2 50	5 40	1 26	7 5	1 46	22 4	0 3	2 53	1 33	1 43	15 30	22 1	21 49	12 16	3 10	5 47	
F 3	22 18	9 21	4 22	25 16	1 58	23 11	0 14	25 17	2 54	5 39	1 25	7 4	1 46	22 5	0 3	2 53	1 33	1 43	15 30	22 1	21 50	12 14	3 9	5 47	
S 4	22 25	5 5	4 51	25 7	1 53	23 19	0 17	25 22	2 58	5 39	1 25	7 4	1 47	22 5	0 3	2 53	1 32	1 43	15 30	22 1	21 50	12 12	3 9	5 48	
S 5	22 32	0 34	5 8	24 57	1 46	23 27	0 19	25 26	3 3	5 39	1 25	7 3	1 47	22 6	0 3	2 52	1 32	1 43	15 30	22 1	21 50	12 10	3 8	5 48	
M 6	22 38	4s 2	5 11	24 45	1 39	23 34	0 21	25 31	3 7	5 38	1 25	7 2	1 47	22 6	0 3	2 52	1 32	1 43	15 30	22 2	21 51	12 8	3 8	5 48	
T 7	22 44	8 36	5 0	24 33	1 31	23 40	0 24	25 36	3 11	5 38	1 24	7 2	1 47	22 7	0 2	2 52	1 32	1 44	15 31	22 2	21 51	12 6	3 7	5 49	
W 8	22 50	12 53	4 33	24 19	1 22	23 45	0 26	25 41	3 15	5 38	1 24	7 1	1 48	22 7	0 2	2 52	1 32	1 44	15 31	22 3	21 52	12 4	3 7	5 49	
T 9	22 55	16 40	3 51	24 5	1 12	23 50	0 28	25 45	3 20	5 38	1 24	7 1	1 48	22 8	0 2	2 52	1 32	1 44	15 31	22 4	21 52	12 2	3 7	5 49	
F 10	23 0	19 40	2 55	23 51	1 2	23 54	0 31	25 51	3 24	5 37	1 24	7 0	1 48	22 8	0 2	2 52	1 32	1 44	15 31	22 4	21 53	12 0	3 6	5 49	
S 11	23 4	21 37	1 48	23 35	0 51	23 58	0 33	25 56	3 28	5 37	1 23	7 0	1 48	22 8	0 2	2 52	1 32	1 44	15 31	22 5	21 53	11 58	3 6	5 50	
S 12	23 8	22 15	0 34	23 19	0 39	24 0	0 35	26 1	3 32	5 38	1 23	7 0	1 49	22 9	0 2	2 51	1 32	1 44	15 31	22 5	21 54	11 56	3 6	5 50	
M13	23 12	21 28	0s44	23 3	0 27	24 3	0 37	26 6	3 37	5 38	1 23	6 59	1 49	22 9	0 2	2 51	1 32	1 45	15 32	22 5	21 54	11 54	3 6	5 50	
T 14	23 15	19 18	1 59	22 46	0 13	24 4	0 40	26 12	3 41	5 38	1 23	6 59	1 49	22 10	0 2	2 51	1 32	1 45	15 32	22 5	21 55	11 52	3 5	5 51	
W15	23 18	15 55	3 8	22 29	0s 0	24 4	0 42	26 17	3 45	5 38	1 22	6 59	1 49	22 10	0 2	2 51	1 32	1 45	15 32	22 5	21 55	11 50	3 5	5 51	
T 16	23 20	11 37	4 4	22 12	0 15	24 4	0 44	26 23	3 50	5 39	1 22	6 58	1 50	22 11	0 2	2 51	1 32	1 45	15 32	22 4	21 56	11 48	3 5	5 51	
F 17	23 22	6 42	4 46	21 55	0 30	24 3	0 46	26 28	3 54	5 39	1 22	6 58	1 50	22 11	0 2	2 51	1 32	1 45	15 32	22 4	21 56	11 46	3 5	5 52	
S 18	23 23	1 28	5 9	21 38	0 45	24 2	0 48	26 34	3 58	5 39	1 21	6 58	1 50	22 12	0 2	2 51	1 32	1 45	15 32	22 4	21 57	11 44	3 5	5 52	
S 19	23 24	3n48	5 14	21 21	1 1	24 0	0 50	26 39	4 2	5 40	1 21	6 58	1 50	22 12	0 2	2 51	1 32	1 45	15 33	22 4	21 57	11 42	3 5	5 52	
M20	23 25	8 49	5 1	21 4	1 17	23 57	0 52	26 45	4 6	5 41	1 21	6 58	1 51	22 13	0 2	2 51	1 32	1 45	15 33	22 5	21 58	11 40	3 5	5 52	
T 21	23 25	13 19	4 31	20 48	1 33	23 53	0 54	26 50	4 10	5 41	1 21	6 58	1 51	22 13	0 2	2 51	1 32	1 45	15 33	22 5	21 58	11 38	3 5	5 53	
W22	23 25	17 5	3 46	20 32	1 50	23 49	0 56	26 56	4 14	5 42	1 20	6 58	1 51	22 14	0 2	2 51	1 32	1 46	15 33	22 5	21 58	11 36	3 4	5 53	
T 23	23 25	19 55	2 50	20 17	2 6	23 44	0 58	27 1	4 18	5 43	1 20	6 58	1 51	22 14	0 2	2 51	1 32	1 46	15 33	22 6	21 59	11 34	3 4	5 53	
F 24	23 24	21 40	1 46	20 2	2 23	23 38	1 0	27 7	4 22	5 44	1 20	6 58	1 52	22 14	0 2	2 51	1 32	1 46	15 34	22 6	21 59	11 32	3 4	5 54	
S 25	23 22	22 15	0 37	19 47	2 39	23 31	1 2	27 12	4 26	5 45	1 20	6 58	1 52	22 15	0 2	2 51	1 32	1 46	15 34	22 6	22 0	11 30	3 5	5 54	
S 26	23 21	21 43	0n31	19 34	2 55	23 24	1 4	27 17	4 30	5 46	1 19	6 58	1 52	22 15	0 2	2 52	1 32	1 46	15 34	22 6	22 0	11 28	3 5	5 54	
M27	23 18	20 9	1 38	19 21	3 10	23 16	1 5	27 23	4 33	5 47	1 19	6 59	1 52	22 16	0 2	2 52	1 31	1 46	15 34	22 6	22 1	11 26	3 5	5 54	
T 28	23 16	17 41	2 38	19 10	3 25	23 8	1 7	27 28	4 37	5 48	1 19	6 59	1 53	22 16	0 2	2 52	1 31	1 46	15 34	22 6	22 2	11 24	3 5	5 55	
W29	23 13	14 30	3 32	18 59	3 39	22 59	1 9	27 33	4 40	5 49	1 19	6 59	1 53	22 17	0 2	2 52	1 31	1 46	15 35	22 6	22 2	11 22	3 5	5 55	
T 30	23n 9	10n46	4n16	18n49	3s52	22n49	1n10	27s38	4s44	5s50	1n18	6s59	1s53	22n17	0s 2	2s52	1n31	1n46	15s35	22n 6	22n 2	11n20	3s 5	5n55	

ASTRODIENST EPHEMERIS for the year 2112

geocentric

JULY 2112

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	18 36 55	9°24'33	24°27	13°R35	23°4 4	11°R15	18°1 1	16°R41	12°II53	10°148	16°825	18°54	19°15	10°38	7°R56	F 1
S 2	18 40 51	10°21'45	6°23	13°0 0	24°18	10°57	18° 4	16°40	12°57	10°48	16°26	18°R54	19°12	10°44	7°45	S 2
S 3	18 44 48	11°18'58	18°28	12°23	25°31	10°39	18° 8	16°40	13° 0	10°48	16°27	18°54	19° 9	10°51	7°54	S 3
M 4	18 48 44	12°16'10	0°46	11°47	26°45	10°20	18°11	16°39	13° 3	10°49	16°27	18°54	19° 6	10°58	7°52	M 4
T 5	18 52 41	13°13'22	13°21	11°11	27°58	10° 2	18°15	16°38	13° 6	10°49	16°28	18°53	19° 2	11° 4	7°51	T 5
W 6	18 56 38	14°10'33	26°17	10°37	29°12	9°44	18°18	16°37	13° 9	10°50	16°29	18°53	18°59	11°11	7°50	W 6
T 7	19 0 34	15° 7'45	9°37	10° 4	0°125	9°26	18°22	16°36	13°13	10°50	16°30	18°52	18°56	11°18	7°48	T 7
F 8	19 4 31	16° 4'56	23°19	9°33	1°39	9° 8	18°26	16°35	13°16	10°51	16°31	18°52	18°53	11°24	7°47	F 8
S 9	19 8 27	17° 2'07	7°23	9° 5	2°52	8°50	18°30	16°34	13°19	10°51	16°31	18°52	18°50	11°31	7°45	S 9
S 10	19 12 24	17°59'18	21°46	8°41	4° 6	8°33	18°35	16°33	13°22	10°52	16°32	18°D52	18°47	11°38	7°44	S 10
M 11	19 16 20	18°56'29	6°23	8°20	5°19	8°15	18°39	16°32	13°25	10°52	16°33	18°R52	18°43	11°45	7°42	M 11
T 12	19 20 17	19°53'41	21° 6	8° 4	6°33	7°58	18°44	16°30	13°28	10°53	16°34	18°52	18°40	11°51	7°40	T 12
W 13	19 24 13	20°50'53	5°50	7°52	7°46	7°41	18°49	16°29	13°31	10°54	16°34	18°52	18°37	11°58	7°39	W 13
T 14	19 28 10	21°48'05	20°28	7°45	8°59	7°25	18°54	16°27	13°34	10°54	16°35	18°51	18°34	12° 5	7°37	T 14
F 15	19 32 7	22°45'17	4°54	7°D43	10°13	7° 9	18°59	16°26	13°37	10°55	16°36	18°51	18°31	12°11	7°35	F 15
S 16	19 36 3	23°42'30	19° 6	7°46	11°26	6°54	19° 4	16°24	13°40	10°56	16°36	18°D51	18°27	12°18	7°33	S 16
S 17	19 40 0	24°39'44	3°8 1	7°55	12°40	6°39	19°10	16°22	13°42	10°57	16°37	18°51	18°24	12°25	7°31	S 17
M 18	19 43 56	25°36'59	16°39	8° 9	13°53	6°24	19°15	16°20	13°45	10°58	16°37	18°51	18°21	12°31	7°29	M 18
T 19	19 47 53	26°34'14	29°59	8°28	15° 7	6°10	19°21	16°18	13°48	10°58	16°38	18°52	18°18	12°38	7°27	T 19
W 20	19 51 49	27°31'30	13°3 3	8°53	16°20	5°57	19°27	16°16	13°51	10°59	16°39	18°53	18°15	12°45	7°25	W 20
T 21	19 55 46	28°28'46	25°53	9°24	17°33	5°44	19°33	16°14	13°54	11° 0	16°39	18°53	18°12	12°52	7°23	T 21
F 22	19 59 42	29°26'03	8°29	10° 0	18°47	5°32	19°39	16°11	13°56	11° 1	16°40	18°54	18° 8	12°58	7°21	F 22
S 23	20 3 39	0°123'21	20°54	10°41	20° 0	5°20	19°45	16° 9	13°59	11° 2	16°40	18°R54	18° 5	13° 5	7°19	S 23
S 24	20 7 36	1°20'39	3°8 8	11°28	21°13	5°10	19°52	16° 6	14° 2	11° 3	16°41	18°54	18° 2	13°12	7°17	S 24
M 25	20 11 32	2°17'58	15°13	12°21	22°27	5° 0	19°58	16° 4	14° 4	11° 4	16°41	18°53	17°59	13°18	7°14	M 25
T 26	20 15 29	3°15'17	27°11	13°19	23°40	4°51	20° 5	16° 1	14° 7	11° 5	16°42	18°51	17°56	13°25	7°12	T 26
W 27	20 19 25	4°12'37	9°4 4	14°22	24°53	4°42	20°12	15°58	14°10	11° 6	16°42	18°49	17°53	13°32	7°10	W 27
T 28	20 23 22	5° 9'57	20°54	15°30	26° 7	4°35	20°19	15°56	14°12	11° 7	16°42	18°46	17°49	13°38	7° 7	T 28
F 29	20 27 18	6° 7'18	2°45	16°43	27°20	4°28	20°26	15°53	14°15	11° 9	16°43	18°44	17°46	13°45	7° 5	F 29
S 30	20 31 15	7° 4'39	14°40	18° 1	28°33	4°22	20°33	15°50	14°17	11°10	16°43	18°42	17°43	13°52	7° 2	S 30
S 31	20 35 11	8°12'01	26°43	19°24	29°47	4°17	20°41	15°47	14°19	11°11	16°43	18°41	17°40	13°58	7°4 0	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	23n 5	6n37	4n49	18n41	4s 4	22n38	1n12	27s43	4s47	5s52	1n18	7s 0	1s53	22n18	0s 2	2s52	1n31	1n46	15s35	22n 6	22n 3	11n18	3s 5	5n55	
S 2	23 1	2 12	5 9	18 33	4 15	22 27	1 14	27 47	4 50	5 53	1 18	7 0	1 54	22 18	0 2	2 52	1 31	1 46	15 35	22 5	22 3	11 16	3 5	5 56	
S 3	22 57	2s21	5 17	18 27	4 25	22 15	1 15	27 52	4 53	5 55	1 17	7 1	1 54	22 18	0 2	2 53	1 31	1 46	15 36	22 5	22 3	11 14	3 6	5 56	
M 4	22 51	6 53	5 10	18 22	4 33	22 3	1 16	27 56	4 56	5 56	1 17	7 1	1 54	22 19	0 2	2 53	1 31	1 46	15 36	22 6	22 4	11 12	3 6	5 56	
T 5	22 46	11 15	4 49	18 19	4 39	21 49	1 18	28 0	4 59	5 58	1 17	7 2	1 54	22 19	0 2	2 53	1 31	1 46	15 36	22 6	22 4	11 10	3 6	5 56	
W 6	22 40	15 13	4 12	18 16	4 45	21 36	1 19	28 4	5 1	5 59	1 17	7 2	1 54	22 20	0 2	2 53	1 31	1 46	15 36	22 6	22 5	11 8	3 6	5 57	
T 7	22 34	18 34	3 21	18 15	4 48	21 21	1 20	28 8	5 4	6 1	1 16	7 3	1 55	22 20	0 2	2 53	1 31	1 46	15 37	22 6	22 5	11 6	3 7	5 57	
F 8	22 27	20 58	2 17	18 16	4 50	21 6	1 22	28 12	5 6	6 3	1 16	7 3	1 55	22 20	0 2	2 54	1 31	1 46	15 37	22 6	22 6	11 4	3 7	5 57	
S 9	22 20	22 10	1 3	18 17	4 50	20 51	1 23	28 15	5 8	6 5	1 16	7 4	1 55	22 21	0 2	2 54	1 31	1 46	15 37	22 6	22 6	11 2	3 7	5 57	
S 10	22 13	21 56	0s16	18 20	4 49	20 35	1 24	28 19	5 10	6 7	1 16	7 5	1 55	22 21	0 2	2 54	1 31	1 46	15 37	22 6	22 7	10 59	3 8	5 58	
M11	22 5	20 13	1 36	18 24	4 46	20 18	1 25	28 22	5 12	6 9	1 15	7 5	1 56	22 21	0 2	2 54	1 31	1 46	15 38	22 6	22 7	10 57	3 8	5 58	
T 12	21 57	17 8	2 50	18 29	4 42	20 1	1 26	28 25	5 14	6 11	1 15	7 6	1 56	22 22	0 2	2 55	1 31	1 46	15 38	22 6	22 7	10 55	3 8	5 58	
W13	21 48	12 58	3 52	18 35	4 36	19 43	1 27	28 27	5 16	6 13	1 15	7 7	1 56	22 22	0 2	2 55	1 31	1 46	15 38	22 6	22 8	10 53	3 9	5 58	
T 14	21 40	8 3	4 39	18 43	4 30	19 24	1 28	28 30	5 17	6 15	1 15	7 8	1 56	22 23	0 2	2 55	1 31	1 46	15 38	22 6	22 8	10 51	3 9	5 59	
F 15	21 30	2 46	5 8	18 51	4 22	19 5	1 28	28 32	5 19	6 17	1 14	7 9	1 57	22 23	0 2	2 56	1 31	1 45	15 39	22 6	22 9	10 49	3 10	5 59	
S 16	21 21	2n35	5 17	19 0	4 13	18 46	1 29	28 34	5 20	6 19	1 14	7 10	1 57	22 23	0 2	2 56	1 31	1 45	15 39	22 6	22 9	10 47	3 10	5 59	
S 17	21 11	7 41	5 8	19 9	4 2	18 26	1 30	28 36	5 21	6 21	1 14	7 10	1 57	22 24	0 2	2 56	1 31	1 45	15 39	22 6	22 10	10 45	3 11	5 59	
M18	21 0	12 19	4 41	19 19	3 52	18 5	1 30	28 38	5 22	6 24	1 14	7 11	1 57	22 24	0 2	2 57	1 31	1 45	15 39	22 6	22 10	10 43	3 11	5 59	
T 19	20 50	16 14	3 59	19 30	3 40	17 44	1 31	28 39	5 23	6 26	1 13	7 12	1 58	22 24	0 2	2 57	1 30	1 45	15 40	22 6	22 10	10 41	3 12	6 0	
W20	20 39	19 17	3 6	19 41	3 27	17 23	1 31	28 40	5 23	6 29	1 13	7 14	1 58	22 25	0 2	2 57	1 30	1 45	15 40	22 6	22 11	10 39	3 12	6 0	
T 21	20 27	21 18	2 4	19 52	3 14	17 1	1 32	28 41	5 24	6 31	1 13	7 15	1 58	22 25	0 2	2 58	1 30	1 45	15 40	22 6	22 11	10 36	3 13	6 0	
F 22	20 15	22 12	0 57	20 3	3 1	16 39	1 32	28 42	5 24	6 34	1 13	7 16	1 58	22 25	0 2	2 58	1 30	1 45	15 41	22 6	22 12	10 34	3 14	6 0	
S 23	20 3	21 59	0n11	20 13	2 47	16 16	1 32	28 43	5 24	6 36	1 13	7 17	1 58	22 26	0 2	2 59	1 30	1 45	15 41	22 5	22 12	10 32	3 14	6 0	
S 24	19 51	20 43	1 18	20 24	2 33	15 52	1 32	28 44	5 25	6 39	1 12	7 18	1 59	22 26	0 2	2 59	1 30	1 44	15 41	22 6	22 13	10 30	3 15	6 0	
M25	19 38	18 30	2 20	20 34	2 18	15 29	1 32	28 44	5 24	6 41	1 12	7 19	1 59	22 26	0 2	3 0	1 30	1 44	15 41	22 6	22 13	10 28	3 16	6 1	
T 26	19 25	15 31	3 16	20 43	2 3	15 5	1 32	28 44	5 24	6 44	1 12	7 20	1 59	22 27	0 2	3 0	1 30	1 44	15 42	22 6	22 13	10 26	3 16	6 1	
W27	19 12	11 55	4 3	20 51	1 49	14 40	1 32	28 44	5 24	6 47	1 12	7 22	1 59	22 27	0 2	3 0	1 30	1 44	15 42	22 6	22 14	10 24	3 17	6 1	
T 28	18 58	7 53	4 39	20 58	1 34	14 15	1 32	28 44	5 24	6 50	1 11	7 23	1 59	22 27	0 2	3 1	1 30	1 44	15 42	22 7	22 14	10 22	3 18	6 1	
F 29	18 44	3 33	5 3	21 4	1 19	13 50	1 32	28 44	5 23	6 53	1 11	7 24	2 0	22 28	0 2	3 1	1 30	1 44	15 43	22 7	22 15	10 19	3 18	6 1	
S 30	18 29	0s57	5 14	21 9	1 5	13 24	1 32	28 44	5 23	6 56	1 11	7 26	2 0	22 28	0 2	3 2	1 30	1 43	15 43	22 7	22 15	10 17	3 19	6 1	
S 31	18n15	5s26	5n12	21n11	0s50	12n58	1n32	28s43	5s22	6s59	1n11	7s27	2s 0	22n28	0s 2	3s 2	1n30	1n43	15s43	22n 7	22n16	10n15	3s20	6n 1	

ASTRODIENST EPHEMERIS for the year 2112

geocentric

AUGUST 2112

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 39 8	8♎59°23	8♎59	20♊52	1♉0	4°R12	20♊48	15°R43	14♎22	11♎12	16♎44	18°D40	17♊37	14♎5	6°R58	M 1
T 2	20 43 5	9°56'46	21°31	22°24	2°13	4♊9	20°56	15♎40	14°24	11°13	16°44	18♊41	17°33	14°12	6♎55	T 2
W 3	20 47 1	10°54'09	4♎24	24°0	3°26	4°6	21°3	15°37	14°26	11°15	16°44	18°42	17°30	14°19	6°52	W 3
T 4	20 50 58	11°51'33	17°41	25°41	4°40	4°4	21°11	15°34	14°29	11°16	16°45	18°43	17°27	14°25	6°50	T 4
F 5	20 54 54	12°48'58	1♊24	27°25	5°53	4°3	21°19	15°30	14°31	11°17	16°45	18°45	17°24	14°32	6°47	F 5
S 6	20 58 51	13°46'23	15°34	29°13	7°6	4°D 3	21°27	15°27	14°33	11°19	16°45	18°R45	17°21	14°39	6°45	S 6
S 7	21 2 47	14°43'49	0♎8	1♎3	8°19	4°4	21°36	15°23	14°35	11°20	16°45	18°45	17°18	14°45	6°42	S 7
M 8	21 6 44	15°41'16	15°1	2°57	9°32	4°5	21°44	15°20	14°37	11°21	16°46	18°43	17°14	14°52	6°39	M 8
T 9	21 10 40	16°38'44	0♎5	4°53	10°45	4°8	21°52	15°16	14°39	11°23	16°46	18°41	17°11	14°59	6°36	T 9
W10	21 14 37	17°36'13	15°12	6°51	11°59	4°11	22°1	15°12	14°41	11°24	16°46	18°37	17°8	15°6	6°34	W10
T 11	21 18 34	18°33'43	0♎12	8°50	13°12	4°15	22°10	15°8	14°43	11°26	16°46	18°33	17°5	15°12	6°31	T 11
F 12	21 22 30	19°31'15	14°56	10°51	14°25	4°20	22°18	15°5	14°45	11°27	16°46	18°29	17°2	15°19	6°28	F 12
S 13	21 26 27	20°28'48	29°20	12°53	15°38	4°25	22°27	15°1	14°47	11°29	16°46	18°26	16°58	15°26	6°25	S 13
S 14	21 30 23	21°26'22	13♎19	14°56	16°51	4°32	22°36	14°57	14°49	11°30	16°46	18°25	16°55	15°32	6°22	S 14
M15	21 34 20	22°23'58	26°54	16°59	18°4	4°39	22°45	14°53	14°51	11°32	16°46	18°D25	16°52	15°39	6°20	M15
T 16	21 38 16	23°21'35	10♎6	19°2	19°17	4°47	22°55	14°49	14°53	11°34	16°R46	18°26	16°49	15°46	6°17	T 16
W17	21 42 13	24°19'14	22°57	21°4	20°30	4°56	23°4	14°44	14°54	11°35	16°46	18°27	16°46	15°52	6°14	W17
T 18	21 46 9	25°16'55	5♊32	23°7	21°43	5°5	23°13	14°40	14°56	11°37	16°46	18°28	16°43	15°59	6°11	T 18
F 19	21 50 6	26°14'37	17°52	25°8	22°56	5°16	23°23	14°36	14°58	11°39	16°46	18°R29	16°39	16°6	6°8	F 19
S 20	21 54 3	27°12'20	0♎2	27°9	24°9	5°27	23°32	14°32	14°59	11°40	16°46	18°28	16°36	16°13	6°5	S 20
S 21	21 57 59	28°10'05	12°5	29°9	25°22	5°39	23°42	14°28	15°1	11°42	16°46	18°26	16°33	16°19	6°2	S 21
M22	22 1 56	29°7'51	24°1	1♎8	26°35	5°51	23°52	14°23	15°2	11°44	16°46	18°21	16°30	16°26	5°59	M22
T 23	22 5 52	0♎5'38	5♎54	3°6	27°47	6°4	24°2	14°19	15°4	11°46	16°46	18°15	16°27	16°33	5°56	T 23
W24	22 9 49	1°3'27	17°45	5°3	29°0	6°18	24°12	14°15	15°5	11°47	16°46	18°8	16°24	16°39	5°53	W24
T 25	22 13 45	2°1'17	29°36	6°58	0♎13	6°33	24°22	14°10	15°7	11°49	16°45	17°59	16°20	16°46	5°50	T 25
F 26	22 17 42	2°59'09	11♎28	8°52	1°26	6°48	24°32	14°6	15°8	11°51	16°45	17°51	16°17	16°53	5°47	F 26
S 27	22 21 38	3°57'02	23°25	10°45	2°39	7°4	24°42	14°1	15°9	11°53	16°45	17°44	16°14	16°59	5°44	S 27
S 28	22 25 35	4°54'56	5♎29	12°37	3°52	7°21	24°53	13°57	15°10	11°55	16°45	17°38	16°11	17°6	5°42	S 28
M29	22 29 32	5°52'51	17°43	14°27	5°4	7°38	25°3	13°52	15°12	11°56	16°45	17°34	16°8	17°13	5°39	M29
T 30	22 33 28	6°50'48	0♎12	16°16	6°17	7°56	25°14	13°48	15°13	11°58	16°44	17°33	16°4	17°20	5°36	T 30
W31	22 37 25	7♎48'46	12♎59	18♎4	7♎30	8♎15	25♎24	13♎43	15♎14	12♎0	16♎44	17°D32	16♎1	17♎26	5♎33	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	18n 0	9s48	4n56	21n13	0s36	12n32	1n31	28s42	5s21	7s 2	1n10	7s28	2s 0	22n28	0s 2	3s 3
T 2	17 45	13 52	4 25	21 12	0 23	12 5	1 31	28 42	5 20	7 5	1 10	7 30	2 0	22 29	0 2	3 3
W 3	17 29	17 24	3 40	21 8	0 9	11 38	1 30	28 41	5 19	7 8	1 10	7 31	2 1	22 29	0 2	3 4
T 4	17 13	20 9	2 43	21 3	0n 4	11 11	1 30	28 40	5 18	7 11	1 10	7 33	2 1	22 29	0 2	3 5
F 5	16 57	21 51	1 34	20 55	0 16	10 44	1 29	28 39	5 17	7 14	1 10	7 34	2 1	22 30	0 2	3 5
S 6	16 41	22 14	0 18	20 45	0 27	10 16	1 28	28 38	5 16	7 17	1 9	7 36	2 1	22 30	0 2	3 6
S 7	16 24	21 7	1s 2	20 32	0 38	9 48	1 27	28 36	5 15	7 21	1 9	7 37	2 1	22 30	0 2	3 6
M 8	16 7	18 32	2 19	20 16	0 48	9 19	1 26	28 35	5 13	7 24	1 9	7 39	2 2	22 30	0 2	3 7
T 9	15 50	14 40	3 27	19 58	0 58	8 51	1 25	28 33	5 12	7 27	1 9	7 40	2 2	22 31	0 2	3 7
W10	15 33	9 50	4 21	19 37	1 6	8 22	1 24	28 32	5 10	7 31	1 9	7 42	2 2	22 31	0 2	3 8
T 11	15 15	4 28	4 57	19 14	1 14	7 53	1 23	28 30	5 9	7 34	1 8	7 44	2 2	22 31	0 2	3 9
F 12	14 57	1n 5	5 12	18 48	1 21	7 24	1 22	28 28	5 7	7 37	1 8	7 45	2 2	22 31	0 2	3 9
S 13	14 39	6 26	5 7	18 19	1 27	6 54	1 21	28 26	5 6	7 41	1 8	7 47	2 2	22 31	0 2	3 10
S 14	14 21	11 19	4 44	17 49	1 32	6 25	1 20	28 25	5 4	7 44	1 8	7 49	2 3	22 32	0 2	3 11
M15	14 2	15 29	4 5	17 16	1 36	5 55	1 18	28 22	5 2	7 48	1 8	7 50	2 3	22 32	0 2	3 11
T 16	13 43	18 45	3 14	16 41	1 40	5 25	1 17	28 20	5 0	7 51	1 7	7 52	2 3	22 32	0 2	3 12
W17	13 24	21 0	2 15	16 5	1 42	4 55	1 15	28 18	4 58	7 55	1 7	7 54	2 3	22 32	0 2	3 12
T 18	13 5	22 8	1 10	15 27	1 44	4 25	1 14	28 16	4 57	7 59	1 7	7 55	2 3	22 33	0 2	3 13
F 19	12 46	22 11	0 3	14 47	1 45	3 54	1 12	28 14	4 55	8 2	1 7	7 57	2 3	22 33	0 2	3 14
S 20	12 26	21 9	1n 2	14 6	1 46	3 24	1 10	28 11	4 53	8 6	1 7	7 59	2 3	22 33	0 2	3 15
S 21	12 6	19 9	2 5	13 24	1 45	2 53	1 8	28 9	4 51	8 10	1 7	8 1	2 4	22 33	0 2	3 15
M22	11 46	16 21	3 1	12 41	1 44	2 23	1 7	28 6	4 49	8 14	1 6	8 3	2 4	22 33	0 2	3 16
T 23	11 26	12 53	3 48	11 58	1 43	1 52	1 5	28 3	4 47	8 17	1 6	8 4	2 4	22 33	0 2	3 17
W24	11 6	8 55	4 26	11 13	1 41	1 21	1 3	28 1	4 44	8 21	1 6	8 6	2 4	22 34	0 2	3 17
T 25	10 45	4 38	4 52	10 28	1 38	0 50	1 1	27 58	4 42	8 25	1 6	8 8	2 4	22 34	0 2	3 18
F 26	10 24	0 10	5 6	9 42	1 35	0 19	0 58	27 55	4 40	8 29	1 6	8 10	2 4	22 34	0 2	3 19
S 27	10 3	4s21	5 6	8 56	1 31	0s11	0 56	27 52	4 38	8 33	1 6	8 12	2 4	22 34	0 2	3 20
S 28	9 42	8 44	4 53	8 10	1 27	0 42	0 54	27 49	4 36	8 37	1 5	8 13	2 4	22 34	0 2	3 20
M29	9 21	12 50	4 27	7 24	1 23	1 13	0 52	27 46	4 34	8 41	1 5	8 15	2 4	22 34	0 2	3 21
T 30	9 0	16 29	3 47	6 37	1 18	1 44	0 49	27 42	4 32	8 45	1 5	8 17	2 4	22 34	0 2	3 22
W31	8n38	19s27	2n55	5n50	1n13	2s15	0n47	27s39	4s29	8s49	1n 5	8s19	2s 5	22n35	0s 2	3s23

Julian Day Number = 2492664.5, Delta T = 99.33 sec
 Ecliptic obliquity = 23°25'26", Nutation = - 0°00'16", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°18'48", Lahiri = 25°25'48"

ASTRODIENST EPHEMERIS for the year 2112
geocentric

OCTOBER 2112

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 39 38	8♌ 0'20	2♊43	3♈28	14♈49	21♊56	1♈26	11°R27	15°R22	13♌ 6	16°R26	15°R 0	14♌23	20♈54	4°R 8	S 1
S 2	0 43 34	8°59'16	17° 2	4°32	16° 1	22°29	1°38	11♈24	15♈21	13° 8	16♌25	14♌57	14°20	21° 1	4♈ 6	S 2
M 3	0 47 31	9°58'14	1♈45	5°35	17°13	23° 2	1°51	11°20	15°21	13°10	16°24	14°52	14°16	21° 8	4° 4	M 3
T 4	0 51 27	10°57'13	16°48	6°35	18°24	23°35	2° 4	11°16	15°20	13°12	16°23	14°44	14°13	21°14	4° 2	T 4
W 5	0 55 24	11°56'15	2♈ 3	7°33	19°36	24° 8	2°16	11°13	15°19	13°14	16°22	14°34	14°10	21°21	3°59	W 5
T 6	0 59 21	12°55'18	17°18	8°27	20°47	24°42	2°29	11° 9	15°19	13°17	16°21	14°23	14° 7	21°28	3°57	T 6
F 7	1 3 17	13°54'24	2♌22	9°19	21°59	25°16	2°42	11° 6	15°18	13°19	16°20	14°12	14° 4	21°34	3°55	F 7
S 8	1 7 14	14°53'31	17° 6	10° 7	23°10	25°51	2°54	11° 2	15°17	13°21	16°19	14° 2	14° 1	21°41	3°53	S 8
S 9	1 11 10	15°52'41	1♈23	10°51	24°22	26°25	3° 7	10°59	15°16	13°23	16°19	13°55	13°57	21°48	3°51	S 9
M10	1 15 7	16°51'54	15°11	11°31	25°33	27° 0	3°20	10°56	15°15	13°26	16°18	13°50	13°54	21°55	3°49	M10
T 11	1 19 3	17°51'08	28°29	12° 7	26°44	27°35	3°33	10°52	15°14	13°28	16°17	13°48	13°51	22° 1	3°47	T 11
W12	1 23 0	18°50'25	11♌20	12°39	27°56	28°10	3°46	10°49	15°13	13°30	16°16	13°48	13°48	22° 8	3°46	W12
T 13	1 26 56	19°49'44	23°49	13° 4	29° 7	28°46	3°58	10°46	15°12	13°32	16°15	13°48	13°45	22°15	3°44	T 13
F 14	1 30 53	20°49'06	6♈ 0	13°25	0♌18	29°21	4°11	10°43	15°11	13°35	16°14	13°47	13°41	22°21	3°42	F 14
S 15	1 34 50	21°48'29	18° 0	13°38	1°29	29°57	4°24	10°40	15°10	13°37	16°13	13°44	13°38	22°28	3°40	S 15
S 16	1 38 46	22°47'55	29°52	13°R46	2°40	0♌34	4°37	10°38	15° 8	13°39	16°12	13°39	13°35	22°35	3°39	S 16
M17	1 42 43	23°47'24	11♈42	13°45	3°51	1°10	4°50	10°35	15° 7	13°41	16°11	13°32	13°32	22°42	3°37	M17
T 18	1 46 39	24°46'54	23°33	13°38	5° 2	1°47	5° 3	10°32	15° 6	13°43	16°10	13°21	13°29	22°48	3°36	T 18
W19	1 50 36	25°46'27	5♌27	13°22	6°13	2°23	5°16	10°30	15° 4	13°46	16° 9	13° 8	13°26	22°55	3°34	W19
T 20	1 54 32	26°46'01	17°26	12°57	7°24	3° 0	5°29	10°27	15° 3	13°48	16° 8	12°54	13°22	23° 2	3°33	T 20
F 21	1 58 29	27°45'38	29°32	12°24	8°34	3°38	5°42	10°25	15° 1	13°50	16° 6	12°40	13°19	23° 8	3°31	F 21
S 22	2 2 25	28°45'17	11♈46	11°42	9°45	4°15	5°55	10°23	15° 0	13°52	16° 5	12°28	13°16	23°15	3°30	S 22
S 23	2 6 22	29°44'57	24° 8	10°52	10°56	4°52	6° 8	10°20	14°58	13°54	16° 4	12°17	13°13	23°22	3°29	S 23
M24	2 10 19	0♈44'40	6♌39	9°54	12° 6	5°30	6°21	10°18	14°57	13°56	16° 3	12° 9	13°10	23°29	3°27	M24
T 25	2 14 15	1°44'25	19°21	8°49	13°17	6° 8	6°34	10°16	14°55	13°59	16° 2	12° 4	13° 7	23°35	3°26	T 25
W26	2 18 12	2°44'11	2♌15	7°38	14°27	6°46	6°48	10°14	14°54	14° 1	16° 1	12° 2	13° 3	23°42	3°25	W26
T 27	2 22 8	3°43'59	15°24	6°24	15°38	7°24	7° 1	10°13	14°52	14° 3	16° 0	12°D 2	13° 0	23°49	3°24	T 27
F 28	2 26 5	4°43'49	28°49	5° 8	16°48	8° 3	7°14	10°11	14°50	14° 5	15°59	12°R 2	12°57	23°55	3°23	F 28
S 29	2 30 1	5°43'40	12♌34	3°52	17°58	8°41	7°27	10° 9	14°48	14° 7	15°58	12° 2	12°54	24° 2	3°22	S 29
S 30	2 33 58	6°43'33	26°40	2°39	19° 8	9°20	7°40	10° 8	14°47	14° 9	15°57	12° 1	12°51	24° 9	3°21	S 30
M31	2 37 54	7♈43'27	11♈ 5	1♈31	20♌18	9♌59	7♈53	10♈ 6	14♈45	14♌11	15♌56	11♌57	12♌47	24♈16	3♈20	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	3s10	21s 2	1s32	15s 3	2s32	17s 2	0s47	24s55	3s19	11s 1	1n 1	9s11	2s 5	22n36	0s 2	3s48	1n29	1n22	16s 0	22n35	22n39	7n56	4s26	5n57	
S 2	3 34	18 16	2 40	15 31	2 39	17 26	0 51	24 47	3 17	11 5	1 1	9 13	2 5	22 36	0 2	3 49	1 29	1 22	16 0	22 35	22 39	7 54	4 27	5 57	
M 3	3 57	14 16	3 40	15 58	2 45	17 50	0 54	24 39	3 14	11 9	1 1	9 14	2 5	22 36	0 2	3 50	1 29	1 22	16 0	22 36	22 40	7 52	4 28	5 56	
T 4	4 20	9 17	4 26	16 23	2 51	18 13	0 57	24 31	3 12	11 14	1 1	9 16	2 5	22 36	0 2	3 51	1 29	1 21	16 1	22 37	22 40	7 50	4 29	5 56	
W 5	4 43	3 40	4 53	16 48	2 56	18 36	1 1	24 23	3 10	11 18	1 1	9 17	2 5	22 35	0 2	3 52	1 29	1 21	16 1	22 38	22 40	7 47	4 30	5 56	
T 6	5 6	2n10	5 0	17 10	3 1	18 58	1 4	24 15	3 8	11 23	1 1	9 18	2 5	22 35	0 2	3 53	1 29	1 20	16 1	22 39	22 41	7 45	4 32	5 56	
F 7	5 29	7 49	4 45	17 31	3 6	19 20	1 8	24 6	3 5	11 27	1 0	9 19	2 5	22 35	0 2	3 53	1 29	1 20	16 1	22 40	22 41	7 42	4 33	5 55	
S 8	5 52	12 54	4 12	17 51	3 10	19 42	1 11	23 58	3 3	11 32	1 0	9 21	2 5	22 35	0 2	3 54	1 29	1 20	16 1	22 41	22 41	7 40	4 34	5 55	
S 9	6 15	17 6	3 24	18 9	3 14	20 3	1 14	23 49	3 1	11 36	1 0	9 22	2 5	22 35	0 2	3 55	1 29	1 19	16 1	22 42	22 42	7 38	4 35	5 55	
M10	6 37	20 12	2 25	18 24	3 17	20 23	1 17	23 40	2 59	11 40	1 0	9 23	2 4	22 35	0 2	3 56	1 29	1 19	16 1	22 42	22 42	7 35	4 35	5 54	
T 11	7 0	22 5	1 20	18 38	3 20	20 43	1 21	23 31	2 57	11 45	1 0	9 24	2 4	22 35	0 1	3 57	1 29	1 18	16 2	22 43	22 42	7 33	4 36	5 54	
W12	7 23	22 43	0 13	18 49	3 21	21 3	1 24	23 22	2 55	11 49	1 0	9 25	2 4	22 35	0 1	3 58	1 29	1 18	16 2	22 43	22 43	7 31	4 37	5 54	
T 13	7 45	22 12	0n53	18 58	3 22	21 22	1 27	23 12	2 52	11 54	1 0	9 26	2 4	22 35	0 1	3 59	1 29	1 18	16 2	22 43	22 43	7 28	4 38	5 53	
F 14	8 7	20 37	1 55	19 4	3 22	21 40	1 30	23 3	2 50	11 58	1 0	9 27	2 4	22 35	0 1	3 59	1 29	1 17	16 2	22 43	22 43	7 26	4 39	5 53	
S 15	8 30	18 8	2 50	19 7	3 21	21 58	1 34	22 53	2 48	12 2	1 0	9 28	2 4	22 34	0 1	4 0	1 29	1 17	16 2	22 43	22 44	7 24	4 40	5 53	
S 16	8 52	14 54	3 38	19 8	3 19	22 16	1 37	22 43	2 46	12 7	1 0	9 29	2 4	22 34	0 1	4 1	1 29	1 16	16 2	22 43	22 44	7 21	4 41	5 52	
M17	9 14	11 7	4 16	19 4	3 16	22 32	1 40	22 33	2 44	12 11	1 0	9 30	2 4	22 34	0 1	4 2	1 29	1 16	16 2	22 44	22 44	7 19	4 42	5 52	
T 18	9 36	6 53	4 43	18 57	3 11	22 49	1 43	22 23	2 42	12 16	1 0	9 31	2 4	22 34	0 1	4 3	1 29	1 16	16 2	22 45	22 45	7 17	4 43	5 52	
W19	9 57	2 23	4 58	18 47	3 5	23 4	1 46	22 12	2 40	12 20	1 0	9 32	2 4	22 34	0 1	4 4	1 29	1 15	16 3	22 47	22 45	7 14	4 44	5 51	
T 20	10 19	2s14	4 59	18 32	2 57	23 19	1 49	22 2	2 38	12 24	1 0	9 33	2 4	22 34	0 1	4 4	1 29	1 15	16 3	22 48	22 45	7 12	4 45	5 51	
F 21	10 40	6 49	4 48	18 13	2 48	23 34	1 52	21 51	2 35	12 29	1 0	9 34	2 3	22 34	0 1	4 5	1 29	1 15	16 3	22 49	22 45	7 9	4 45	5 51	
S 22	11 1	11 11	4 23	17 49	2 37	23 47	1 55	21 40	2 33	12 33	0 59	9 34	2 3	22 33	0 1	4 6	1 29	1 14	16 3	22 50	22 46	7 7	4 46	5 50	
S 23	11 23	15 9	3 45	17 21	2 24	24 1	1 58	21 29	2 31	12 37	0 59	9 35	2 3	22 33	0 1	4 7	1 29	1 14	16 3	22 51	22 46	7 5	4 47	5 50	
M24	11 44	18 31	2 56	16 49	2 9	24 13	2 0	21 18	2 29	12 42	0 59	9 36	2 3	22 33	0 1	4 8	1 29	1 14	16 3	22 52	22 46	7 2	4 48	5 50	
T 25	12 4	21 3	1 57	16 12	1 53	24 25	2 3	21 6	2 27	12 46	0 59	9 37	2 3	22 33	0 1	4 9	1 29	1 13	16 3	22 53	22 47	7 0	4 48	5 49	
W26	12 25	22 33	0 52	15 32	1 35	24 36	2 6	20 55	2 25	12 50	0 59	9 37	2 3	22 33	0 1	4 9	1 29	1 13	16 3	22 53	22 47	6 57	4 49	5 49	
T 27	12 45	22 50	0s18	14 50	1 16	24 47	2 8	20 43	2 23	12 55	0 59	9 38	2 3	22 33	0 1	4 10	1 29	1 12	16 3	22 53	22 47	6 55	4 50	5 48	
F 28	13 5	21 49	1 28	14 6	0 55	24 57	2 11	20 31	2 21	12 59	0 59	9 38	2 3	22 32	0 1	4 11	1 29	1 12	16 3	22 53	22 48	6 53	4 51	5 48	
S 29	13 25	19 30	2 35	13 21	0 35	25 6	2 14	20 19	2 19	13 3	0 59	9 39	2 2	22 32	0 1	4 12	1 29	1 12	16 3	22 53	22 48	6 50	4 51	5 47	
S 30	13 45	15 58	3 34	12 36	0 14	25 14	2 16	20 7	2 17	13 8	0 59	9 39	2 2	22 32	0 1	4 13	1 29	1 11	16 3	22 53	22 48	6 48	4 52	5 48	
M31	14s 5	11s26	4s21	11s54	0n 6	25s22	2s18	19s54	2s15	13s12	0n59	9s40	2s 2	22n32	0s 1	4s13	1n29	1n11	16s 3	22n53	22n49	6n45	4s53	5n47	

ASTRODIENST EPHEMERIS for the year 2112
geocentric

NOVEMBER 2112

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 41 51	8♍43'23	25♋48	0°R30	21♌28	10♊38	8♍ 6	10°R 5	14°R43	14♊13	15°R54	11°R50	12♋44	24♍22	3°R20	T 1
W 2	2 45 48	9°43'21	10°Y41	29♊38	22°38	11°17	8°19	10♋ 4	14♊41	14°16	15♋53	11♋42	12°41	24°29	3♋19	W 2
T 3	2 49 44	10°43'21	25°39	28°57	23°48	11°56	8°32	10° 3	14°39	14°18	15°52	11°32	12°38	24°36	3°18	T 3
F 4	2 53 41	11°43'22	10♋30	28°26	24°58	12°36	8°46	10° 2	14°37	14°20	15°51	11°23	12°35	24°42	3°18	F 4
S 5	2 57 37	12°43'25	25° 7	28° 7	26° 7	13°15	8°59	10° 1	14°35	14°22	15°50	11°14	12°32	24°49	3°17	S 5
S 6	3 1 34	13°43'30	9♊22	27°D59	27°17	13°55	9°12	10° 0	14°33	14°24	15°49	11° 8	12°28	24°56	3°17	S 6
M 7	3 5 30	14°43'37	23°11	28° 3	28°26	14°35	9°25	9°59	14°31	14°26	15°48	11° 4	12°25	25° 3	3°16	M 7
T 8	3 9 27	15°43'47	6♋33	28°18	29°35	15°15	9°38	9°59	14°29	14°28	15°47	11°D 3	12°22	25° 9	3°16	T 8
W 9	3 13 23	16°43'58	19°29	28°43	0♌45	15°55	9°51	9°58	14°27	14°30	15°46	11° 3	12°19	25°16	3°16	W 9
T 10	3 17 20	17°44'11	2♌ 2	29°17	1°54	16°35	10° 4	9°58	14°24	14°32	15°44	11° 4	12°16	25°23	3°16	T 10
F 11	3 21 17	18°44'26	14°17	29°59	3° 3	17°15	10°17	9°57	14°22	14°33	15°43	11°R 5	12°13	25°30	3°15	F 11
S 12	3 25 13	19°44'43	26°18	0♍49	4°12	17°55	10°30	9°57	14°20	14°35	15°42	11° 5	12° 9	25°36	3°15	S 12
S 13	3 29 10	20°45'02	8♍12	1°45	5°20	18°35	10°43	9°D57	14°18	14°37	15°41	11° 3	12° 6	25°43	3°D15	S 13
M14	3 33 6	21°45'23	20° 3	2°47	6°29	19°16	10°56	9°57	14°15	14°39	15°40	10°59	12° 3	25°50	3°15	M14
T 15	3 37 3	22°45'46	1♌55	3°55	7°37	19°57	11° 9	9°57	14°13	14°41	15°39	10°53	12° 0	25°56	3°15	T 15
W16	3 40 59	23°46'11	13°52	5° 6	8°46	20°37	11°22	9°58	14°11	14°43	15°38	10°45	11°57	26° 3	3°16	W16
T 17	3 44 56	24°46'38	25°58	6°22	9°54	21°18	11°35	9°58	14° 8	14°45	15°37	10°36	11°53	26°10	3°16	T 17
F 18	3 48 52	25°47'06	8♍13	7°40	11° 2	21°59	11°48	9°58	14° 6	14°46	15°35	10°27	11°50	26°17	3°16	F 18
S 19	3 52 49	26°47'36	20°39	9° 2	12°10	22°40	12° 1	9°59	14° 4	14°48	15°34	10°19	11°47	26°23	3°16	S 19
S 20	3 56 45	27°48'08	3♌18	10°25	13°18	23°21	12°14	10° 0	14° 1	14°50	15°33	10°12	11°44	26°30	3°17	S 20
M21	4 0 42	28°48'41	16° 8	11°51	14°25	24° 2	12°27	10° 0	13°59	14°52	15°32	10° 7	11°41	26°37	3°17	M21
T 22	4 4 39	29°49'16	29°10	13°18	15°33	24°43	12°40	10° 1	13°56	14°53	15°31	10° 5	11°38	26°43	3°18	T 22
W23	4 8 35	0♌49'52	12♋33	14°46	16°40	25°24	12°53	10° 2	13°54	14°55	15°30	10°D 4	11°34	26°50	3°18	W23
T 24	4 12 32	1°50'29	25°48	16°16	17°47	26° 6	13° 6	10° 3	13°52	14°57	15°29	10° 5	11°31	26°57	3°19	T 24
F 25	4 16 28	2°51'08	9♌25	17°46	18°54	26°47	13°18	10° 4	13°49	14°59	15°28	10° 7	11°28	27° 4	3°20	F 25
S 26	4 20 25	3°51'47	23°13	19°17	20° 1	27°29	13°31	10° 6	13°47	15° 0	15°27	10° 8	11°25	27°10	3°20	S 26
S 27	4 24 21	4°52'28	7♋14	20°49	21° 8	28°10	13°44	10° 7	13°44	15° 2	15°26	10°R 9	11°22	27°17	3°21	S 27
M28	4 28 18	5°53'10	21°26	22°21	22°14	28°52	13°57	10° 9	13°42	15° 3	15°25	10° 7	11°18	27°24	3°22	M28
T 29	4 32 15	6°53'52	5°Y48	23°53	23°20	29°34	14° 9	10°10	13°39	15° 5	15°24	10° 5	11°15	27°30	3°23	T 29
W30	4 36 11	7♌54'36	20°Y15	25♍26	24♋26	0♋15	14♍22	10♋12	13♊37	15♊ 6	15♋23	10♋ 1	11♋12	27♍37	3♋24	W30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14s24	6s 8	4s52	11s14	0n26	25s29	2s21	19s42	2s13	13s16	0n59	9s40	2s 2	22n32	0s 1	4s14	1n29	1n11	16s 3	22n54	22n49	6n43	4s53	5n47			
W 2	14 43	0 26	5 4	10 39	0 44	25 36	2 23	19 29	2 11	13 20	0 59	9 40	2 2	22 31	0 1	4 15	1 29	1 11	16 3	22 55	22 49	6 41	4 54	5 46			
T 3	15 2	5n20	4 55	10 8	1 1	25 42	2 25	19 16	2 9	13 25	0 59	9 41	2 2	22 31	0 1	4 16	1 29	1 10	16 3	22 55	22 49	6 38	4 54	5 46			
F 4	15 20	10 45	4 26	9 43	1 17	25 47	2 27	19 3	2 7	13 29	0 59	9 41	2 2	22 31	0 1	4 16	1 29	1 10	16 3	22 56	22 50	6 36	4 55	5 45			
S 5	15 39	15 28	3 40	9 23	1 30	25 51	2 29	18 50	2 5	13 33	0 59	9 41	2 1	22 31	0 1	4 17	1 29	1 10	16 3	22 57	22 50	6 33	4 56				
S 6	15 57	19 11	2 41	9 10	1 42	25 55	2 31	18 37	2 3	13 37	0 59	9 41	2 1	22 31	0 1	4 18	1 29	1 9	16 3	22 57	22 50	6 31	4 56	5 45			
M 7	16 15	21 41	1 34	9 2	1 52	25 58	2 33	18 23	2 2	13 41	0 59	9 41	2 1	22 30	0 1	4 19	1 29	1 9	16 3	22 58	22 51	6 29	4 57	5 44			
T 8	16 32	22 52	0 24	8 59	2 0	26 0	2 34	18 10	2 0	13 46	0 59	9 41	2 1	22 30	0 1	4 19	1 29	1 9	16 3	22 58	22 51	6 26	4 57	5 44			
W 9	16 50	22 45	0n45	9 2	2 7	26 1	2 36	17 56	1 58	13 50	0 59	9 42	2 1	22 30	0 1	4 20	1 29	1 8	16 3	22 58	22 51	6 24	4 58	5 43			
T 10	17 7	21 29	1 50	9 9	2 12	26 2	2 38	17 42	1 56	13 54	0 59	9 42	2 1	22 30	0 1	4 21	1 29	1 8	16 3	22 58	22 52	6 21	4 58	5 43			
F 11	17 23	19 14	2 49	9 21	2 15	26 2	2 39	17 28	1 54	13 58	0 59	9 42	2 1	22 29	0 1	4 22	1 29	1 8	16 3	22 58	22 52	6 19	4 58	5 43			
S 12	17 40	16 10	3 39	9 36	2 17	26 2	2 40	17 14	1 52	14 2	0 59	9 41	2 0	22 29	0 1	4 22	1 29	1 8	16 3	22 58	22 52	6 16	4 59	5 42			
S 13	17 56	12 29	4 19	9 55	2 18	26 1	2 42	17 0	1 50	14 6	0 59	9 41	2 0	22 29	0 1	4 23	1 30	1 7	16 3	22 58	22 52	6 14	4 59	5 42			
M14	18 12	8 20	4 47	10 17	2 18	25 59	2 43	16 45	1 48	14 10	0 59	9 41	2 0	22 29	0 1	4 24	1 30	1 7	16 3	22 58	22 53	6 12	5 0	5 41			
T 15	18 27	3 53	5 4	10 41	2 16	25 56	2 44	16 31	1 47	14 14	0 59	9 41	2 0	22 28	0 1	4 24	1 30	1 7	16 3	22 59	22 53	6 9	5 0	5 41			
W16	18 42	0s45	5 7	11 6	2 14	25 53	2 45	16 16	1 45	14 18	0 59	9 41	2 0	22 28	0 1	4 25	1 30	1 7	16 3	22 59	22 53	6 7	5 0	5 41			
T 17	18 57	5 25	4 56	11 34	2 11	25 48	2 46	16 1	1 43	14 22	0 59	9 40	2 0	22 28	0 1	4 26	1 30	1 6	16 3	23 0	22 54	6 4	5 1	5 40			
F 18	19 12	9 56	4 32	12 3	2 8	25 44	2 46	15 46	1 41	14 26	0 59	9 40	2 0	22 28	0 1	4 26	1 30	1 6	16 3	23 1	22 54	6 2	5 1	5 40			
S 19	19 26	14 7	3 55	12 33	2 4	25 38	2 47	15 31	1 39	14 30	0 59	9 40	1 59	22 27	0 1	4 27	1 30	1 6	16 3	23 1	22 54	5 59	5 1	5 39			
S 20	19 39	17 46	3 6	13 3	1 59	25 32	2 47	15 16	1 38	14 34	0 59	9 39	1 59	22 27	0 1	4 28	1 30	1 6	16 3	23 2	22 54	5 57	5 1	5 39			
M21	19 53	20 37	2 6	13 34	1 54	25 25	2 48	15 1	1 36	14 38	0 59	9 39	1 59	22 27	0 1	4 28	1 30	1 6	16 3	23 2	22 55	5 54	5 1	5 39			
T 22	20 6	22 26	0 59	14 6	1 48	25 18	2 48	14 45	1 34	14 42	0 59	9 39	1 59	22 26	0 1	4 29	1 30	1 5	16 2	23 2	22 55	5 52	5 2	5 38			
W23	20 19	23 3	0s13	14 38	1 42	25 10	2 48	14 30	1 32	14 46	0 59	9 38	1 59	22 26	0 1	4 30	1 30	1 5	16 2	23 3	22 55	5 49	5 2	5 38			
T 24	20 31	22 21	1 25	15 9	1 36	25 1	2 48	14 14	1 31	14 50	0 59	9 37	1 59	22 26	0 1	4 30	1 30	1 5	16 2	23 2	22 55	5 47	5 2	5 37			
F 25	20 43	20 21	2 33	15 41	1 30	24 52	2 48	13 58	1 29	14 53	0 59	9 37	1 58	22 26	0 1	4 31	1 30	1 5	16 2	23 2	22 56	5 44	5 2	5 37			
S 26	20 55	17 7	3 33	16 12	1 23	24 42	2 48	13 42	1 27	14 57	0 59	9 36	1 58	22 25	0 1	4 31	1 30	1 5	16 2	23 2	22 56	5 42	5 2	5 37			
S 27	21 6	12 54	4 22	16 43	1 17	24 31	2 47	13 26	1 25	15 1	0 59	9 36	1 58	22 25	0 1	4 32	1 30	1 5	16 2	23 2	22 56	5 40	5 2	5 36			
M28	21 17	7 55	4 55	17 13	1 10	24 20	2 47	13 10	1 24	15 5	0 59	9 35	1 58	22 25	0 1	4 32	1 30	1 4	16 2	23 2	22 57	5 37	5 2	5 36			
T 29	21 27	2 27	5 11	17 43	1 3	24 8	2 46	12 54	1 22	15 8	0 59	9 34	1 58	22 24	0 1	4 33	1 30	1 4	16 2	23 2	22 57	5 35	5 2	5 35			
W30	21s37	3n10	5s 7	18s12	0n56	23s56	2s45	12s38	1s20	15s12	0n59	9s33	1s58	22n24	0s 1	4s34	1n30	1n 4	16s 1	23n 3	22n57	5n32	5s 2	5n35			

ASTRODIENST EPHEMERIS for the year 2112

geocentric

DECEMBER 2112

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 40 8	8°55'20	48°44	26♂59	25♂32	0♂57	14♂34	10♂14	13°R34	15♂8	15°R22	9°R56	11♂9	27♂44	3♂25	T 1
F 2	4 44 4	9°56'06	19°9	28°32	26°37	1°39	14°47	10°16	13°R31	15°9	15°R21	9°R52	11°6	27°51	3°26	F 2
S 3	4 48 1	10°56'53	3°R23	0♂5	27°43	2°21	14°59	10°18	13°29	15°11	15°20	9°47	11°3	27°57	3°27	S 3
S 4	4 51 57	11°57'41	17°21	1°39	28°48	3°3	15°12	10°20	13°26	15°12	15°19	9°44	10°59	28°4	3°29	S 4
M 5	4 55 54	12°58'31	1♂0	3°12	29°52	3°45	15°24	10°22	13°24	15°14	15°18	9°43	10°56	28°11	3°30	M 5
T 6	4 59 50	13°59'21	14°17	4°46	0♂57	4°27	15°36	10°24	13°21	15°15	15°17	9°D43	10°53	28°17	3°31	T 6
W 7	5 3 47	15°0'13	27°12	6°19	2°1	5°9	15°49	10°27	13°19	15°16	15°16	9°43	10°50	28°24	3°33	W 7
T 8	5 7 44	16°1'06	9♂48	7°53	3°5	5°51	16°1	10°29	13°16	15°18	15°15	9°45	10°47	28°31	3°34	T 8
F 9	5 11 40	17°2'00	22°6	9°27	4°9	6°33	16°13	10°32	13°14	15°19	15°14	9°47	10°44	28°38	3°36	F 9
S 10	5 15 37	18°2'56	4♂11	11°0	5°12	7°15	16°25	10°35	13°11	15°20	15°13	9°48	10°40	28°44	3°37	S 10
S 11	5 19 33	19°3'52	16°7	12°34	6°15	7°58	16°37	10°37	13°9	15°21	15°12	9°R49	10°37	28°51	3°39	S 11
M 12	5 23 30	20°4'50	27°59	14°8	7°18	8°40	16°50	10°40	13°6	15°23	15°11	9°49	10°34	28°58	3°41	M 12
T 13	5 27 26	21°5'49	9♂52	15°42	8°20	9°22	17°2	10°43	13°4	15°24	15°10	9°48	10°31	29°5	3°42	T 13
W 14	5 31 23	22°6'49	21°51	17°15	9°22	10°4	17°13	10°46	13°1	15°25	15°9	9°46	10°28	29°11	3°44	W 14
T 15	5 35 19	23°7'50	3♂59	18°49	10°24	10°47	17°25	10°50	12°59	15°26	15°8	9°43	10°24	29°18	3°46	T 15
F 16	5 39 16	24°8'52	16°20	20°23	11°25	11°29	17°37	10°53	12°56	15°27	15°7	9°41	10°21	29°25	3°48	F 16
S 17	5 43 13	25°9'55	28°56	21°57	12°26	12°12	17°49	10°56	12°54	15°28	15°7	9°38	10°18	29°31	3°50	S 17
S 18	5 47 9	26°10'59	11♂49	23°32	13°26	12°54	18°1	11°0	12°51	15°29	15°6	9°37	10°15	29°38	3°52	S 18
M 19	5 51 6	27°12'04	24°59	25°6	14°26	13°37	18°12	11°3	12°49	15°30	15°5	9°35	10°12	29°45	3°54	M 19
T 20	5 55 2	28°13'09	8♂25	26°40	15°26	14°19	18°24	11°7	12°46	15°31	15°4	9°D35	10°9	29°52	3°56	T 20
W 21	5 58 59	29°14'15	22°5	28°15	16°25	15°2	18°35	11°11	12°44	15°32	15°3	9°35	10°5	29°58	3°58	W 21
T 22	6 2 55	0♂15'22	5♂57	29°50	17°24	15°44	18°47	11°15	12°41	15°33	15°3	9°36	10°2	0♂5	4°1	T 22
F 23	6 6 52	1°16'28	19°57	1♂25	18°22	16°27	18°58	11°18	12°39	15°34	15°2	9°37	9°59	0°12	4°3	F 23
S 24	6 10 48	2°17'35	4♂4	3°0	19°20	17°9	19°9	11°22	12°37	15°35	15°1	9°37	9°56	0°18	4°5	S 24
S 25	6 14 45	3°18'42	18°15	4°35	20°17	17°52	19°20	11°27	12°34	15°35	15°1	9°38	9°53	0°25	4°8	S 25
M 26	6 18 42	4°19'49	2♂27	6°11	21°14	18°35	19°31	11°31	12°32	15°36	15°0	9°R38	9°50	0°32	4°10	M 26
T 27	6 22 38	5°20'57	16°38	7°47	22°10	19°17	19°42	11°35	12°30	15°37	14°59	9°38	9°46	0°39	4°13	T 27
W 28	6 26 35	6°22'04	0♂45	9°23	23°5	20°0	19°53	11°39	12°28	15°38	14°59	9°38	9°43	0°45	4°15	W 28
T 29	6 30 31	7°23'11	14°47	10°59	24°0	20°43	20°4	11°44	12°25	15°38	14°58	9°38	9°40	0°52	4°18	T 29
F 30	6 34 28	8°24'18	28°41	12°35	24°54	21°25	20°15	11°48	12°23	15°39	14°57	9°37	9°37	0°59	4°20	F 30
S 31	6 38 24	9♂25'26	12♂25	14♂12	25♂48	22♂8	20♂26	11♂53	12♂21	15♂39	14♂57	9°D37	9♂34	1♂6	4♂23	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	21s46	8n38	4s43	18s41	0n49	23s43	2s44	12s21	1s19	15s16	0n59	9s32	1s58	22n24	0s1	4s34
F 2	21s56	13s37	4s2	19s8	0s42	23s29	2s43	12s5	1s17	15s19	0s59	9s32	1s57	22s24	0s1	4s35
S 3	22s4	17s46	3s6	19s35	0s35	23s15	2s42	11s48	1s16	15s23	0s59	9s31	1s57	22s23	0s1	4s35
S 4	22s13	20s50	2s0	20s2	0s28	23s0	2s40	11s32	1s14	15s27	0s59	9s30	1s57	22s23	0s1	4s36
M 5	22s20	22s38	0s48	20s27	0s20	22s45	2s39	11s15	1s12	15s30	0s59	9s29	1s57	22s23	0s1	4s36
T 6	22s28	23s5	0n25	20s51	0s13	22s29	2s37	10s58	1s11	15s34	0s59	9s28	1s57	22s22	0s1	4s37
W 7	22s35	22s15	1s35	21s15	0s6	22s13	2s35	10s41	1s9	15s37	0s59	9s27	1s57	22s22	0s1	4s37
T 8	22s41	20s19	2s38	21s37	0s1	21s56	2s33	10s24	1s8	15s41	0s59	9s26	1s56	22s22	0s1	4s38
F 9	22s48	17s29	3s32	21s59	0s7	21s39	2s31	10s7	1s6	15s44	0s59	9s24	1s56	22s21	0s1	4s38
S 10	22s53	13s57	4s16	22s19	0s14	21s21	2s29	9s50	1s4	15s48	0s59	9s23	1s56	22s21	0s1	4s38
S 11	22s58	9s54	4s49	22s38	0s21	21s3	2s26	9s33	1s3	15s51	0s59	9s22	1s56	22s21	0s1	4s39
M 12	23s3	5s31	5s2	22s56	0s28	20s45	2s23	9s16	1s1	15s54	0s59	9s21	1s56	22s20	0s1	4s39
T 13	23s8	0s56	5s15	23s13	0s34	20s26	2s20	8s59	1s0	15s58	0s59	9s20	1s56	22s20	0s1	4s40
W 14	23s11	3s44	5s8	23s29	0s40	20s6	2s17	8s41	0s58	16s1	0s59	9s18	1s56	22s20	0s1	4s40
T 15	23s15	8s19	4s48	23s44	0s47	19s47	2s14	8s24	0s57	16s4	0s59	9s17	1s55	22s20	0s1	4s40
F 16	23s18	12s40	4s13	23s57	0s53	19s26	2s11	8s6	0s55	16s8	0s59	9s16	1s55	22s19	0s1	4s41
S 17	23s20	16s33	3s26	24s9	0s59	19s6	2s7	7s49	0s54	16s11	0s59	9s14	1s55	22s19	0s1	4s41
S 18	23s22	19s45	2s28	24s20	1s4	18s45	2s3	7s31	0s52	16s14	0s59	9s13	1s55	22s19	0s1	4s41
M 19	23s24	22s0	1s20	24s30	1s10	18s24	1s59	7s14	0s51	16s17	0s59	9s11	1s55	22s18	0s1	4s42
T 20	23s25	23s3	0s6	24s38	1s15	18s2	1s55	6s56	0s50	16s20	1s0	9s10	1s55	22s18	0s1	4s42
W 21	23s25	22s45	1s9	24s45	1s21	17s40	1s51	6s38	0s48	16s23	1s0	9s8	1s55	22s18	0s1	4s42
T 22	23s25	21s3	2s21	24s51	1s26	17s18	1s46	6s20	0s47	16s27	1s0	9s7	1s54	22s17	0s1	4s43
F 23	23s25	18s4	3s26	24s55	1s30	16s56	1s42	6s3	0s45	16s30	1s0	9s5	1s54	22s17	0s1	4s43
S 24	23s24	14s1	4s18	24s58	1s35	16s33	1s37	5s45	0s44	16s33	1s0	9s3	1s54	22s17	0s1	4s43
S 25	23s23	9s10	4s55	25s0	1s39	16s10	1s32	5s27	0s43	16s36	1s0	9s2	1s54	22s17	0s1	4s43
M 26	23s21	3s50	5s15	25s0	1s43	15s47	1s26	5s9	0s41	16s38	1s0	9s0	1s54	22s16	0s1	4s44
T 27	23s19	1n41	5s15	24s59	1s47	15s23	1s21	4s51	0s40	16s41	1s0	8s58	1s54	22s16	0s1	4s44
W 28	23s16	7s6	4s56	24s56	1s51	15s0	1s15	4s33	0s39	16s44	1s0	8s56	1s54	22s16	0s1	4s44
T 29	23s13	12s8	4s19	24s52	1s54	14s36	1s9	4s15	0s37	16s47	1s0	8s55	1s54	22s15	0s1	4s44
F 30	23s9	16s28	3s28	24s46	1s57	14s12	1s3	3s57	0s36	16s50	1s0	8s53	1s53	22s15	0s1	4s45
S 31	23s5	19n52	2s25	24s39	2s0	13s48	0s57	3s39	0s35	16s53	1n0	8s51	1s53	22n15	0s1	4s45

Julian Day Number = 2492786.5, Delta T = 99.50 sec
 Ecliptic obliquity = 23°25'26", Nutation = - 0°00'18", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°19'05", Lahiri = 25°26'05"