



Astrodienst Ephemeris Tables for the year 2122

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 2122
geocentric

JANUARY 2122

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	6 41 40	10 ³ 15'31	11 ¹ 28	14°R46	16 ³ 6	22 ³ 55	1°R 6	14°R59	23°R54	4 ¹ 58	23°R32	15°R13	15 ³ 28	7 ¹ 24	8 ¹ 18	T 1
F 2	6 45 37	11°16'40	23°22	13 ³ 27	17°21	23°41	1 ¹ 3	14 ³ 54	23 ³ 52	4°59	23 ³ 31	15 ³ 13	15°24	7°30	8°19	F 2
S 3	6 49 34	12°17'49	5 ¹ 22	12° 6	18°37	24°28	0°59	14°49	23°49	5° 0	23°31	15°13	15°21	7°37	8°19	S 3
S 4	6 53 30	13°18'59	17°33	10°45	19°52	25°15	0°56	14°44	23°47	5° 1	23°30	15°13	15°18	7°44	8°20	S 4
M 5	6 57 27	14°20'08	29°59	9°26	21° 8	26° 1	0°53	14°39	23°44	5° 3	23°29	15°13	15°15	7°51	8°21	M 5
T 6	7 1 23	15°21'18	12 ¹ 42	8°11	22°23	26°48	0°49	14°34	23°42	5° 4	23°29	15°D13	15°12	7°57	8°22	T 6
W 7	7 5 20	16°22'29	25°44	7° 4	23°39	27°35	0°45	14°29	23°39	5° 5	23°28	15°13	15° 8	8° 4	8°23	W 7
T 8	7 9 16	17°23'39	9 ³ 5	6° 4	24°54	28°22	0°41	14°24	23°36	5° 6	23°27	15°R13	15° 5	8°11	8°24	T 8
F 9	7 13 13	18°24'49	22°45	5°14	26° 9	29° 9	0°37	14°19	23°34	5° 7	23°27	15°13	15° 2	8°18	8°25	F 9
S 10	7 17 10	19°25'59	6 ¹ 41	4°34	27°25	29°56	0°33	14°15	23°31	5° 7	23°26	15°13	14°59	8°24	8°26	S 10
S 11	7 21 6	20°27'09	20°49	4° 4	28°40	0 ¹ 43	0°28	14°10	23°29	5° 8	23°26	15°12	14°56	8°31	8°28	S 11
M12	7 25 3	21°28'18	5 ¹ 5	3°44	29°56	1°30	0°23	14° 5	23°26	5° 9	23°25	15°11	14°53	8°38	8°29	M12
T 13	7 28 59	22°29'27	19°25	3°33	1 ¹ 11	2°17	0°19	14° 0	23°23	5°10	23°25	15°11	14°49	8°44	8°30	T 13
W14	7 32 56	23°30'35	3 ¹ 44	3°D32	2°27	3° 4	0°13	13°55	23°21	5°11	23°24	15°10	14°46	8°51	8°31	W14
T 15	7 36 52	24°31'43	17°59	3°39	3°42	3°51	0° 8	13°50	23°18	5°11	23°24	15°D 9	14°43	8°58	8°33	T 15
F 16	7 40 49	25°32'50	2 ¹ 8	3°54	4°57	4°38	0° 3	13°45	23°16	5°12	23°23	15° 9	14°40	9° 5	8°34	F 16
S 17	7 44 45	26°33'56	16° 9	4°16	6°13	5°25	29 ¹ 57	13°41	23°13	5°13	23°23	15°10	14°37	9°11	8°36	S 17
S 18	7 48 42	27°35'02	29°59	4°44	7°28	6°12	29°52	13°36	23°10	5°14	23°22	15°11	14°34	9°18	8°37	S 18
M19	7 52 39	28°36'07	13 ¹ 39	5°18	8°43	6°59	29°46	13°31	23° 8	5°14	23°22	15°12	14°30	9°25	8°39	M19
T 20	7 56 35	29°37'11	27° 7	5°58	9°59	7°46	29°40	13°26	23° 5	5°15	23°22	15°13	14°27	9°32	8°41	T 20
W21	8 0 32	0 ¹ 38'15	10 ³ 23	6°42	11°14	8°33	29°34	13°22	23° 3	5°15	23°21	15°R14	14°24	9°38	8°42	W21
T 22	8 4 28	1°39'18	23°26	7°31	12°29	9°20	29°28	13°17	23° 0	5°16	23°21	15°14	14°21	9°45	8°44	T 22
F 23	8 8 25	2°40'20	6 ¹ 16	8°24	13°44	10° 8	29°21	13°13	22°58	5°16	23°21	15°13	14°18	9°52	8°46	F 23
S 24	8 12 21	3°41'22	18°53	9°20	15° 0	10°55	29°15	13° 8	22°55	5°17	23°20	15°11	14°14	9°58	8°48	S 24
S 25	8 16 18	4°42'23	1 ¹ 17	10°19	16°15	11°42	29° 8	13° 4	22°52	5°17	23°20	15° 8	14°11	10° 5	8°50	S 25
M26	8 20 14	5°43'23	13°29	11°22	17°30	12°29	29° 2	12°59	22°50	5°17	23°20	15° 4	14° 8	10°12	8°52	M26
T 27	8 24 11	6°44'23	25°31	12°26	18°45	13°17	28°55	12°55	22°47	5°18	23°19	15° 1	14° 5	10°19	8°54	T 27
W28	8 28 8	7°45'22	7 ¹ 27	13°34	20° 1	14° 4	28°48	12°51	22°45	5°18	23°19	14°57	14° 2	10°25	8°56	W28
T 29	8 32 4	8°46'20	19°19	14°43	21°16	14°51	28°41	12°47	22°42	5°18	23°19	14°55	13°59	10°32	8°58	T 29
F 30	8 36 1	9°47'18	1 ¹ 12	15°54	22°31	15°39	28°34	12°43	22°40	5°19	23°19	14°53	13°55	10°39	9° 0	F 30
S 31	8 39 57	10 ¹ 48'16	13 ¹ 10	17 ³ 7	23 ¹ 46	16 ¹ 26	28 ¹ 27	12 ³ 38	22 ³ 38	5 ¹ 19	23 ¹ 19	14°D53	13 ³ 52	10 ¹ 45	9 ¹ 2	S 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23s 2	9s23	5s16	20s34	2n 3	23s18	0s52	22s31	1 s 3	11n59	0n59	22n 6	0s30	21n49	0n31	11s33	1n43	4n18	14s47	22s33	22s32	7s37	5n24	2n18
F 2	22 57	13 56	5 14	20 25	2 20	23 11	0 54	22 23	1 3	12 1	0 59	22 6	0 30	21 49	0 31	11 34	1 43	4 18	14 47	22 33	22 32	7 39	5 24	2 17
S 3	22 51	17 59	4 58	20 18	2 35	23 3	0 56	22 15	1 3	12 2	0 59	22 7	0 29	21 50	0 31	11 34	1 43	4 18	14 47	22 33	22 32	7 42	5 24	2 17
S 4	22 46	21 21	4 28	20 12	2 48	22 54	0 57	22 7	1 3	12 3	0 59	22 7	0 29	21 50	0 31	11 34	1 43	4 18	14 47	22 33	22 33	7 45	5 24	2 17
M 5	22 39	23 48	3 45	20 7	2 59	22 44	0 59	21 58	1 4	12 5	1 0	22 8	0 29	21 51	0 31	11 35	1 43	4 18	14 46	22 33	22 33	7 48	5 24	2 17
T 6	22 32	25 8	2 51	20 4	3 7	22 34	1 1	21 49	1 4	12 6	1 0	22 9	0 29	21 51	0 31	11 35	1 43	4 18	14 46	22 33	22 34	7 51	5 25	2 17
W 7	22 25	25 7	1 46	20 2	3 13	22 23	1 3	21 40	1 4	12 8	1 0	22 9	0 29	21 51	0 31	11 35	1 43	4 18	14 46	22 33	22 34	7 53	5 25	2 16
T 8	22 18	23 41	0 34	20 2	3 16	22 12	1 4	21 31	1 4	12 10	1 0	22 10	0 29	21 52	0 31	11 36	1 43	4 18	14 45	22 33	22 34	7 56	5 25	2 16
F 9	22 10	20 49	0n42	20 3	3 17	21 59	1 6	21 22	1 4	12 11	1 0	22 11	0 29	21 52	0 31	11 36	1 43	4 19	14 45	22 33	22 35	7 59	5 25	2 16
S 10	22 1	16 43	1 56	20 5	3 15	21 46	1 8	21 12	1 4	12 13	1 1	22 11	0 29	21 53	0 31	11 36	1 43	4 19	14 45	22 33	22 35	8 2	5 26	2 16
S 11	21 52	11 38	3 5	20 9	3 13	21 33	1 9	21 2	1 4	12 15	1 1	22 12	0 29	21 53	0 31	11 36	1 43	4 19	14 45	22 33	22 35	8 4	5 26	2 16
M12	21 43	5 53	4 3	20 14	3 8	21 18	1 11	20 52	1 4	12 17	1 1	22 13	0 28	21 54	0 31	11 37	1 43	4 19	14 44	22 34	22 36	8 7	5 26	2 16
T 13	21 33	0n11	4 45	20 20	3 2	21 3	1 12	20 41	1 4	12 19	1 1	22 13	0 28	21 54	0 31	11 37	1 43	4 19	14 44	22 34	22 36	8 10	5 27	2 15
W14	21 23	6 14	5 10	20 27	2 56	20 48	1 14	20 31	1 5	12 21	1 2	22 14	0 28	21 55	0 31	11 37	1 43	4 19	14 44	22 34	22 36	8 13	5 27	2 15
T 15	21 12	11 55	5 16	20 35	2 48	20 32	1 15	20 20	1 5	12 23	1 2	22 14	0 28	21 55	0 31	11 37	1 43	4 19	14 43	22 34	22 37	8 15	5 27	2 15
F 16	21 1	16 57	5 3	20 42	2 40	20 15	1 16	20 8	1 5	12 25	1 2	22 15	0 28	21 56	0 31	11 37	1 43	4 20	14 43	22 34	22 37	8 18	5 28	2 15
S 17	20 50	20 59	4 32	20 51	2 31	19 58	1 18	19 57	1 5	12 27	1 2	22 16	0 28	21 56	0 31	11 37	1 44	4 20	14 43	22 34	22 37	8 21	5 28	2 15
S 18	20 38	23 48	3 45	20 59	2 21	19 40	1 19	19 46	1 5	12 29	1 3	22 16	0 28	21 56	0 31	11 38	1 44	4 20	14 43	22 34	22 38	8 24	5 29	2 14
M19	20 26	25 10	2 46	21 7	2 12	19 21	1 20	19 34	1 5	12 32	1 3	22 17	0 28	21 57	0 31	11 38	1 44	4 20	14 42	22 34	22 38	8 26	5 29	2 14
T 20	20 13	25 2	1 38	21 16	2 2	19 2	1 21	19 22	1 5	12 34	1 3	22 17	0 27	21 57	0 31	11 38	1 44	4 20	14 42	22 33	22 38	8 29	5 30	2 14
W21	20 0	23 28	0 27	21 23	1 52	18 43	1 22	19 9	1 5	12 36	1 3	22 18	0 27	21 58	0 31	11 38	1 44	4 21	14 42	22 33	22 39	8 32	5 30	2 14
T 22	19 47	20 39	0s45	21 31	1 42	18 23	1 23	18 57	1 5	12 39	1 3	22 19	0 27	21 58	0 31	11 38	1 44	4 21	14 41	22 33	22 39	8 34	5 31	2 14
F 23	19 33	16 52	1 54	21 38	1 32	18 2	1 24	18 44	1 5	12 41	1 4	22 19	0 27	21 59	0 31	11 38	1 44	4 21	14 41	22 33	22 39	8 37	5 31	2 14
S 24	19 19	12 23	2 55	21 44	1 22	17 41	1 25	18 32	1 5	12 43	1 4	22 20	0 27	21 59	0 31	11 38	1 44	4 21	14 41	22 34	22 40	8 40	5 32	2 13
S 25	19 5	7 28	3 47	21 50	1 12	17 19	1 26	18 19	1 5	12 46	1 4	22 20	0 27	21 59	0 31	11 38	1 44	4 22	14 40	22 34	22 40	8 43	5 32	2 13
M26	18 50	2 22	4 28	21 54	1 2	16 57	1 26	18 5	1 5	12 48	1 4	22 21	0 27	22 0	0 31	11 38	1 44	4 22	14 40	22 34	22 40	8 45	5 33	2 13
T 27	18 35	2s45	4 56	21 58	0 52	16 34	1 27	17 52	1 5	12 51	1 4	22 21	0 27	22 0	0 31	11 39	1 44	4 22	14 40	22 35	22 41	8 48	5 34	2 13
W28	18 19	7 43	5 11	22 1	0 43	16 11	1 28	17 38	1 5	12 54	1 4	22 22	0 26	22 1	0 31	11 39	1 44	4 22	14 39	22 35	22 41	8 51	5 34	2 13
T 29	18 3	12 23	5 13	22 3	0 34	15 48	1 28	17 24	1 5	12 56	1 5	22 22	0 26	22 1	0 31	11 39	1 44	4 23	14 39	22 35	22 41	8 53	5 35	2 12
F 30	17 47	16 35	5 2	22 5	0 24	15 24	1 29	17 10	1 5	12 59	1 5	22 23	0 26	22 2	0 31	11 39	1 44	4 23	14 39	22 36	22 42	8 56	5 36	2 12
S 31	17s31	20s11	4s37	22s 5	0n15	14s59	1s29	16s56	1 s 5	13n 1	1n 5	22n23	0s26	22n 2	0n31	11s39	1n44	4n23	14s38	22s36	22s42	8s59	5n36	2n12

ASTRODIENST EPHEMERIS for the year 2122

geocentric

FEBRUARY 2122

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 43 54	11°49'12	25°11'19	18°32'22	25°11'19	17°13'13	28°19'19	12°19'34	22°19'35	5°19'19	23°19'19	14°35'44	13°34'49	10°52'52	9°19'4	S 1	
M 2	8 47 50	12°50'08	7°17'42	19°39'26	18°1'18	28°12'12	12°31'12	22°33'12	5°19'19	23°18'19	14°55'55	13°46'46	10°59'59	9°7'7	M 2		
T 3	8 51 47	13°51'04	20°24'20	20°56'27	18°48'28	28°4'12	12°27'27	22°30'30	5°19'19	23°18'18	14°57'57	13°43'43	11°6'6	9°9'9	T 3		
W 4	8 55 43	14°51'58	3°30'30	22°15'22	19°35'27	27°57'12	12°23'23	22°28'28	5°19'19	23°18'18	14°58'58	13°40'40	11°12'12	9°11'11	W 4		
T 5	8 59 40	15°52'52	17°0'23	23°36'0	20°23'27	27°49'12	12°19'19	22°26'26	5°19'19	23°18'18	14°59'59	13°36'36	11°19'19	9°14'14	T 5		
F 6	9 3 37	16°53'45	0°55'24	24°57'1	21°10'27	27°42'12	12°16'16	22°23'23	5°19'19	23°18'18	14°58'58	13°33'33	11°26'26	9°16'16	F 6		
S 7	9 7 33	17°54'37	15°12'26	26°20'2	21°58'27	27°34'12	12°12'12	22°21'21	5°19'19	23°18'18	14°55'55	13°30'30	11°33'33	9°19'19	S 7		
S 8	9 11 30	18°55'27	29°48'27	27°44'3	22°45'27	27°26'12	12°9'9	22°19'19	5°19'19	23°18'18	14°51'51	13°27'27	11°39'39	9°21'21	S 8		
M 9	9 15 26	19°56'17	14°34'29	29°9'5	23°33'27	27°18'12	12°5'5	22°17'17	5°19'19	23°18'18	14°46'46	13°24'24	11°46'46	9°24'24	M 9		
T 10	9 19 23	20°57'04	29°23'0	35°6'17	24°20'27	27°11'12	12°2'2	22°14'14	5°19'19	23°19'19	14°40'40	13°20'20	11°53'53	9°26'26	T 10		
W 11	9 23 19	21°57'51	14°7'7	2°1'7	32°25°8	27°3'11	11°59'59	22°12'12	5°19'19	23°19'19	14°35'35	13°17'17	11°59'59	9°29'29	W 11		
T 12	9 27 16	22°58'36	28°39'3	29°8'4	25°55'26	26°55'11	11°55'55	22°10'10	5°19'19	23°19'19	14°31'31	13°14'14	12°6'6	9°32'32	T 12		
F 13	9 31 12	23°59'19	12°56'4	58°10°2	26°42'26	26°47'11	11°52'52	22°8'8	5°18'18	23°19'19	14°29'29	13°11'11	12°13'13	9°34'34	F 13		
S 14	9 35 9	25°0'01	26°54'6	62°7'11	27°30'26	26°39'11	11°50'50	22°6'6	5°18'18	23°19'19	14°28'28	13°8'8	12°20'20	9°37'37	S 14		
S 15	9 39 6	26°0'41	10°34'7	75°8'12	12°32'32	28°17'26	26°31'31	11°47'47	22°4'4	5°18'18	23°19'19	14°29'29	13°5'5	12°26'26	9°40'40	S 15	
M 16	9 43 2	27°1'20	23°56'9	92°9'13	13°47'47	29°5'26	26°23'23	11°44'44	22°2'2	5°17'17	23°19'19	14°30'30	13°1'1	12°33'33	9°43'43	M 16	
T 17	9 46 59	28°1'57	7°3'11	2°15°2	29°52'26	26°15'11	11°41'41	22°0'0	5°17'17	23°20'20	14°32'32	12°58'58	12°40'40	9°45'45	T 17		
W 18	9 50 55	29°2'32	19°56'12	12°35'16	16°17'17	0°40'40	26°7'7	11°39'39	21°58'58	5°17'17	23°20'20	14°32'32	12°55'55	12°46'46	9°48'48	W 18	
T 19	9 54 52	0°3'05	2°37'14	14°9'17	17°31'31	1°27'27	25°59'59	11°36'36	21°56'56	5°16'16	23°20'20	14°30'30	12°52'52	12°53'53	9°51'51	T 19	
F 20	9 58 48	1°3'37	15°8'15	15°44'44	18°46'46	2°15'15	25°51'51	11°34'34	21°54'54	5°16'16	23°20'20	14°26'26	12°49'49	13°0'0	9°54'54	F 20	
S 21	10 2 45	2°4'07	27°29'17	17°20'20	20°1'3	3°2'2	25°43'43	11°32'32	21°52'52	5°15'15	23°21'21	14°20'20	12°46'46	13°7'7	9°57'57	S 21	
S 22	10 6 41	3°4'36	9°42'18	18°56'56	21°16'16	3°49'49	25°36'36	11°30'30	21°50'50	5°15'15	23°21'21	14°11'11	12°42'42	13°13'13	10°0'0	S 22	
M 23	10 10 38	4°5'03	21°47'20	20°34'34	22°30'30	4°37'37	25°28'28	11°28'28	21°49'49	5°14'14	23°21'21	14°2'2	12°39'39	13°20'20	10°3'3	M 23	
T 24	10 14 35	5°5'28	3°46'22	22°13'13	23°45'45	5°24'24	25°20'20	11°26'26	21°47'47	5°14'14	23°22'22	13°51'51	12°36'36	13°27'27	10°6'6	T 24	
W 25	10 18 31	6°5'52	15°40'23	23°52'52	25°0'0	6°12'12	25°12'12	11°24'24	21°45'45	5°13'13	23°22'22	13°42'42	12°33'33	13°34'34	10°9'9	W 25	
T 26	10 22 28	7°6'15	27°32'25	23°33'33	26°14'14	6°59'59	25°5'5	11°22'22	21°44'44	5°12'12	23°23'23	13°33'33	12°30'30	13°40'40	10°12'12	T 26	
F 27	10 26 24	8°6'36	9°24'27	27°14'14	27°29'29	7°47'47	24°57'57	11°20'20	21°42'42	5°12'12	23°23'23	13°27'27	12°26'26	13°47'47	10°15'15	F 27	
S 28	10 30 21	9°6'56	21°24'28	28°57'57	28°43'43	8°34'34	24°50'50	11°19'19	21°41'41	5°11'11	23°24'24	13°23'23	12°23'23	13°54'54	10°19'19	S 28	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	17s14	22s57	3s59	22s 4	0n 6	14s35	1s29	16s42	1s 5	13n 4	1n 5	22n24	0s26	22n 2	0n31	11s39	1n44
M 2	16 57	24 42	3 10	22 1	0s 2	14 9	1 30	16 27	1 5	13 7	1 5	22 24	0 26	22 3	0 31	11 39	1 45
T 3	16 40	25 15	2 11	21 58	0 11	13 44	1 30	16 13	1 5	13 10	1 5	22 25	0 26	22 3	0 31	11 39	1 45
W 4	16 22	24 25	1 3	21 54	0 19	13 18	1 30	15 58	1 5	13 12	1 6	22 25	0 26	22 4	0 31	11 39	1 45
T 5	16 4	22 10	0n11	21 48	0 27	12 52	1 30	15 43	1 5	13 15	1 6	22 26	0 25	22 4	0 31	11 39	1 45
F 6	15 46	18 33	1 26	21 41	0 34	12 25	1 30	15 27	1 5	13 18	1 6	22 26	0 25	22 4	0 31	11 38	1 45
S 7	15 27	13 45	2 37	21 33	0 42	11 58	1 30	15 12	1 5	13 21	1 6	22 27	0 25	22 5	0 31	11 38	1 45
S 8	15 8	8 6	3 40	21 24	0 49	11 31	1 30	14 56	1 5	13 23	1 6	22 27	0 25	22 5	0 31	11 38	1 45
M 9	14 49	1 56	4 29	21 14	0 56	11 3	1 30	14 41	1 5	13 26	1 6	22 28	0 25	22 5	0 31	11 38	1 45
T 10	14 30	4n20	5 0	21 2	1 3	10 35	1 30	14 25	1 4	13 29	1 6	22 28	0 25	22 6	0 31	11 38	1 45
W 11	14 11	10 20	5 11	20 49	1 9	10 7	1 29	14 9	1 4	13 32	1 7	22 29	0 25	22 6	0 31	11 38	1 45
T 12	13 51	15 41	5 1	20 35	1 15	9 39	1 29	13 53	1 4	13 35	1 7	22 29	0 24	22 6	0 31	11 38	1 45
F 13	13 31	20 3	4 33	20 19	1 21	9 10	1 28	13 37	1 4	13 38	1 7	22 29	0 24	22 7	0 31	11 38	1 45
S 14	13 11	23 10	3 50	20 2	1 26	8 41	1 28	13 20	1 4	13 40	1 7	22 30	0 24	22 7	0 31	11 38	1 45
S 15	12 50	24 53	2 54	19 44	1 32	8 12	1 27	13 4	1 4	13 43	1 7	22 30	0 24	22 7	0 31	11 37	1 45
M 16	12 30	25 6	1 49	19 25	1 37	7 42	1 27	12 47	1 4	13 46	1 7	22 31	0 24	22 8	0 31	11 37	1 45
T 17	12 9	23 55	0 40	19 4	1 41	7 13	1 26	12 30	1 4	13 49	1 7	22 31	0 24	22 8	0 31	11 37	1 45
W 18	11 48	21 28	0s29	18 42	1 45	6 43	1 25	12 13	1 3	13 52	1 7	22 31	0 24	22 8	0 31	11 37	1 45
T 19	11 27	18 0	1 36	18 19	1 49	6 13	1 24	11 56	1 3	13 54	1 7	22 32	0 24	22 9	0 31	11 37	1 46
F 20	11 5	13 47	2 37	17 54	1 53	5 43	1 23	11 39	1 3	13 57	1 7	22 32	0 23	22 9	0 31	11 36	1 46
S 21	10 44	9 3	3 30	17 28	1 56	5 13	1 22	11 22	1 3	14 0	1 8	22 32	0 23	22 9	0 31	11 36	1 46
S 22	10 22	4 1	4 13	17 1	1 59	4 42	1 21	11 4	1 3	14 2	1 8	22 33	0 23	22 9	0 31	11 36	1 46
M 23	10 0	1s 5	4 43	16 33	2 2	4 12	1 20	10 47	1 3	14 5	1 8	22 33	0 23	22 10	0 31	11 36	1 46
T 24	9 38	6 6	5 1	16 3	2 4	3 41	1 19	10 29	1 2	14 8	1 8	22 33	0 23	22 10	0 31	11 36	1 46
W 25	9 16	10 51	5 5	15 32	2 5	3 11	1 18	10 12	1 2	14 10	1 8	22 34	0 23	22 10	0 31	11 35	1 46
T 26	8 54	15 12	4 57	14 59	2 7	2 40	1 16	9 54	1 2	14 13	1 8	22 34	0 23	22 10	0 31	11 35	1 46
F 27	8 31	18 57	4 35	14 25	2 8	2 9	1 15	9 36	1 2	14 16	1 8	22 34	0 22	22 11	0 31	11 35	1 46
S 28	8s 9	21s58	4s 2	13s50	2s 8	1s38	1s14	9s18	1s 2	14n18	1n 8	22n34	0s22	22n11	0n31	11s34	1n46

Julian Day Number = 2496135.5, Delta T = 104.42 sec
 Ecliptic obliquity = 23°25'26, Nutation = 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°26'46, Lahiri = 25°33'46

ASTRODIENST EPHEMERIS for the year 2122

MARCH 2122

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 34 17	10° 7'15	3° 25	0° 40	29° 58	9° 21	24° 42	11° 17	21° 39	5° 10	23° 24	13° 21	12° 20	14° 0	10° 17	S 1	
M 2	10 38 14	11° 7'32	15° 44	2° 25	1° 12	10° 9	24° 35	11° 16	21° 38	5° 9	23° 24	13° 20	12° 17	14° 7	10° 25	M 2	
T 3	10 42 10	12° 7'47	28° 21	4° 10	2° 27	10° 56	24° 27	11° 15	21° 36	5° 9	23° 25	13° 21	12° 14	14° 14	10° 28	T 3	
W 4	10 46 7	13° 8'01	11° 22	5° 57	3° 41	11° 43	24° 20	11° 14	21° 35	5° 8	23° 26	13° 22	12° 11	14° 21	10° 32	W 4	
T 5	10 50 4	14° 8'14	24° 50	7° 44	4° 56	12° 31	24° 13	11° 13	21° 34	5° 7	23° 26	13° 21	12° 7	14° 27	10° 35	T 5	
F 6	10 54 0	15° 8'25	8° 46	9° 33	6° 10	13° 18	24° 6	11° 12	21° 32	5° 6	23° 27	13° 19	12° 4	14° 34	10° 38	F 6	
S 7	10 57 57	16° 8'34	23° 11	11° 22	7° 24	14° 6	23° 59	11° 11	21° 31	5° 5	23° 27	13° 13	12° 1	14° 41	10° 41	S 7	
S 8	11 1 53	17° 8'42	8° 0	13° 13	8° 39	14° 53	23° 52	11° 11	21° 30	5° 4	23° 28	13° 6	11° 58	14° 48	10° 45	S 8	
M 9	11 5 50	18° 8'47	23° 6	15° 5	9° 53	15° 40	23° 46	11° 10	21° 29	5° 3	23° 29	12° 56	11° 55	14° 54	10° 48	M 9	
T 10	11 9 46	19° 8'51	8° 18	16° 58	11° 7	16° 27	23° 39	11° 10	21° 28	5° 2	23° 29	12° 46	11° 51	15° 1	10° 51	T 10	
W 11	11 13 43	20° 8'53	23° 26	18° 52	12° 21	17° 15	23° 33	11° 9	21° 27	5° 1	23° 30	12° 36	11° 48	15° 8	10° 55	W 11	
T 12	11 17 39	21° 8'53	8° 21	20° 46	13° 36	18° 2	23° 26	11° 9	21° 26	5° 0	23° 31	12° 28	11° 45	15° 14	10° 58	T 12	
F 13	11 21 36	22° 8'51	22° 54	22° 42	14° 50	18° 49	23° 20	11° 9	21° 25	4° 59	23° 31	12° 23	11° 42	15° 21	11° 2	F 13	
S 14	11 25 33	23° 8'46	7° 11	24° 39	16° 4	19° 36	23° 14	11° 9	21° 24	4° 58	23° 32	12° 20	11° 39	15° 28	11° 5	S 14	
S 15	11 29 29	24° 8'40	20° 44	26° 36	17° 18	20° 24	23° 8	11° 9	21° 23	4° 57	23° 33	12° 19	11° 36	15° 35	11° 9	S 15	
M 16	11 33 26	25° 8'31	4° 3	28° 34	18° 32	21° 11	23° 2	11° 10	21° 23	4° 56	23° 34	12° 19	11° 32	15° 41	11° 12	M 16	
T 17	11 37 22	26° 8'20	17° 1	0° 33	19° 46	21° 58	22° 57	11° 10	21° 22	4° 54	23° 34	12° 19	11° 29	15° 48	11° 16	T 17	
W 18	11 41 19	27° 8'07	29° 41	2° 32	21° 0	22° 45	22° 51	11° 10	21° 21	4° 53	23° 35	12° 18	11° 26	15° 55	11° 19	W 18	
T 19	11 45 15	28° 7'51	12° 8	4° 31	22° 14	23° 32	22° 46	11° 11	21° 21	4° 52	23° 36	12° 14	11° 23	16° 1	11° 23	T 19	
F 20	11 49 12	29° 7'33	24° 24	6° 30	23° 27	24° 19	22° 41	11° 12	21° 20	4° 51	23° 37	12° 8	11° 20	16° 8	11° 26	F 20	
S 21	11 53 8	0° 7'13	6° 32	8° 30	24° 41	25° 6	22° 35	11° 13	21° 20	4° 50	23° 38	11° 59	11° 17	16° 15	11° 30	S 21	
S 22	11 57 5	1° 6'51	18° 34	10° 28	25° 55	25° 53	22° 31	11° 14	21° 19	4° 48	23° 39	11° 47	11° 13	16° 22	11° 33	S 22	
M 23	12 1 1	2° 6'27	0° 32	12° 26	27° 9	26° 40	22° 26	11° 15	21° 19	4° 47	23° 39	11° 33	11° 10	16° 28	11° 37	M 23	
T 24	12 4 58	3° 6'01	12° 27	14° 23	28° 22	27° 27	22° 21	11° 16	21° 18	4° 46	23° 40	11° 18	11° 7	16° 35	11° 40	T 24	
W 25	12 8 55	4° 5'33	24° 19	16° 18	29° 36	28° 14	22° 17	11° 17	21° 18	4° 44	23° 41	11° 4	11° 4	16° 42	11° 44	W 25	
T 26	12 12 51	5° 5'03	6° 12	18° 11	0° 49	29° 1	22° 13	11° 18	21° 18	4° 43	23° 42	10° 52	11° 1	16° 49	11° 47	T 26	
F 27	12 16 48	6° 4'31	18° 5	20° 2	2° 3	29° 48	22° 9	11° 20	21° 18	4° 42	23° 43	10° 42	10° 57	16° 55	11° 51	F 27	
S 28	12 20 44	7° 3'57	0° 3	21° 50	3° 16	0° 35	22° 5	11° 21	21° 18	4° 40	23° 44	10° 35	10° 54	17° 2	11° 54	S 28	
S 29	12 24 41	8° 3'22	12° 9	23° 35	4° 30	1° 21	22° 1	11° 23	21° 18	4° 39	23° 45	10° 30	10° 51	17° 9	11° 58	S 29	
M 30	12 28 37	9° 2'45	24° 26	25° 17	5° 43	2° 8	21° 57	11° 25	21° 18	4° 37	23° 46	10° 28	10° 48	17° 15	12° 2	M 30	
T 31	12 32 34	10° 2'06	7° 0	26° 54	6° 36	2° 55	21° 54	11° 27	21° 18	4° 36	23° 47	10° 28	10° 45	17° 22	12° 5	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
S 1	7s46	24s 3	3s17	13s14	2s 9	1s 7	1s12	9s 0	1s 1	14n21	1n 8	22n35	0s22	22n11	0n31	11s34	1n46	4n34	14s29	22s45	22s51	10s16	6n 4	2n 8	
M 2	7 23	25 1	2 22	12 36	2 8	0 36	1 11	8 42	1 1	14 23	1 8	22 35	0 22	22 11	0 31	11 34	1 46	4 34	14 29	22 45	22 51	10 18	6 5	2 8	
T 3	7 0	24 44	1 19	11 57	2 7	0 5	1 9	8 24	1 1	14 26	1 8	22 35	0 22	22 12	0 31	11 34	1 46	4 34	14 28	22 45	22 52	10 21	6 6	2 8	
W 4	6 37	23 7	0 11	11 17	2 6	0n26	1 7	8 6	1 1	14 28	1 8	22 35	0 22	22 12	0 30	11 33	1 46	4 35	14 28	22 45	22 52	10 23	6 7	2 8	
T 5	6 14	20 9	1n 1	10 35	2 5	0 57	1 5	7 47	1 0	14 31	1 8	22 36	0 22	22 12	0 30	11 33	1 46	4 35	14 28	22 45	22 52	10 26	6 8	2 8	
F 6	5 51	15 57	2 11	9 53	2 3	1 28	1 4	7 29	1 0	14 33	1 8	22 36	0 21	22 12	0 30	11 33	1 46	4 36	14 27	22 46	22 53	10 28	6 10	2 7	
S 7	5 28	10 42	3 15	9 9	2 0	1 59	1 2	7 11	1 0	14 35	1 8	22 36	0 21	22 12	0 30	11 32	1 46	4 36	14 27	22 46	22 53	10 31	6 11	2 7	
S 8	5 4	4 43	4 8	8 23	1 57	2 30	1 0	6 52	1 0	14 37	1 8	22 36	0 21	22 13	0 30	11 32	1 46	4 37	14 27	22 47	22 53	10 34	6 12	2 7	
M 9	4 41	1n37	4 45	7 37	1 53	3 1	0 58	6 33	0 59	14 40	1 8	22 36	0 21	22 13	0 30	11 31	1 46	4 37	14 27	22 48	22 53	10 36	6 13	2 7	
T 10	4 18	7 54	5 2	6 49	1 49	4 32	0 56	6 15	0 59	14 42	1 8	22 37	0 21	22 13	0 30	11 31	1 47	4 37	14 26	22 49	22 54	10 39	6 14	2 7	
W 11	3 54	13 42	4 57	6 0	1 44	4 3	0 54	5 56	0 59	14 44	1 8	22 37	0 21	22 13	0 30	11 31	1 47	4 38	14 26	22 50	22 54	10 41	6 16	2 7	
T 12	3 30	18 34	4 33	5 10	1 39	4 34	0 52	5 37	0 58	14 46	1 8	22 37	0 21	22 13	0 30	11 30	1 47	4 38	14 26	22 50	22 54	10 44	6 17	2 7	
F 13	3 7	22 12	3 51	4 19	1 33	5 5	0 50	5 19	0 58	14 48	1 8	22 37	0 20	22 13	0 30	11 30	1 47	4 39	14 25	22 51	22 55	10 46	6 18	2 7	
S 14	2 43	24 21	2 56	3 27	1 27	5 35	0 47	5 0	0 58	14 50	1 8	22 37	0 20	22 13	0 30	11 29	1 47	4 39	14 25	22 51	22 55	10 49	6 19	2 6	
S 15	2 19	24 58	1 52	2 34	1 20	6 6	0 45	4 41	0 57	14 52	1 8	22 37	0 20	22 13	0 30	11 29	1 47	4 40	14 25	22 51	22 55	10 52	6 21	2 6	
M 16	1 56	24 5	0 44	1 41	1 12	6 36	0 43	4 22	0 57	14 54	1 8	22 37	0 20	22 14	0 30	11 29	1 47	4 40	14 25	22 51	22 55	10 54	6 22	2 6	
T 17	1 32	21 56	0s25	0 46	1 4	7 6	0 40	4 3	0 57	14 56	1 8	22 37	0 20	22 14	0 30	11 28	1 47	4 41	14 24	22 51	22 56	10 57	6 23	2 6	
W 18	1 8	18 44	1 31	0n 9	0 56	7 36	0 38	3 44	0 57	14 57	1 8	22 38	0 20	22 14	0 30	11 28	1 47	4 41	14 24	22 51	22 56	10 59	6 24	2 6	
T 19	0 45	14 44	2 31	1 5	0 47	8 6	0 36	3 26	0 56	14 59	1 8	22 38	0 20	22 14	0 30	11 27	1 47	4 42	14 24	22 52	22 56	11 2	6 26	2 6	
F 20	0 21	10 11	3 23	2 1	0 37	8 35	0 33	3 7	0 56	15 1	1 8	22 38	0 20	22 14	0 30	11 27	1 47	4 42	14 23	22 52	22 56	11 4	6 27	2 6	
S 21	0n 3	5 19	4 5	2 57	0 27	9 5	0 31	2 48	0 55	15 2	1 8	22 38	0 19	22 14	0 30	11 26	1 47	4 42	14 23	22 53	22 57	11 7	6 28	2 6	
S 22	0 27	0 17	4 36	3 53	0 17	9 34	0 28	2 29	0 55	15 4	1 7	22 38	0 19	22 14	0 30	11 26	1 47	4 43	14 23	22 54	22 57	11 9	6 30	2 6	
M 23	0 50	4s43	4 54	4 49	0 6	10 3	0 25	2 10	0 55	15 5	1 7	22 38	0 19	22 14	0 30	11 26	1 47	4 43	14 23	22 55	22 57	11 12	6 31	2 6	
T 24	1 14	9 30	4 59	5 45	0n 6	10 32	0 23	1 51	0 54	15 7	1 7	22 38	0 19	22 14	0 30	11 25	1 47	4 44	14 22	22 57	22 58	11 14	6 32	2 6	
W 25	1 38	13 56	4 52	6 40	0 17	11 1	0 20	1 32	0 54	15 8	1 7	22 38	0 19	22 14	0 30	11 25	1 47	4 44	14 22	22 58	22 58	11 17	6 34	2 6	
T 26	2 1	17 50	4 31	7 35	0 29	11 29	0 17	1 13	0 54	15 10	1 7	22 38	0 19	22 14	0 30	11 24	1 47	4 45	14 22	22 59	22 58	11 20	6 35	2 5	
F 27	2 25	21 2	3 59	8 28	0 41	11 57	0 15	0 54	0 53	15 11	1 7	22 38	0 19	22 14	0 30	11 24	1 47	4 45	14 22	23 0	22 58	11 22	6 36	2 5	
S 28	2 48	23 20	3 16	9 20	0 54	12 25	0 12	0 35	0 53	15 12	1 7	22 38	0 18	22 14	0 30	11 23	1 47	4 46	14 21	23 0	22 59	11 25	6 38	2 5	
S 29	3 12	24 36	2 24	10 10	1 6	12 12	0 9	0 16	0 52	15 13	1 7	22 38	0 18	22 14	0 30	11 23	1 47	4 46	14 21	23 1	22 59	11 27	6 39	2 5	
M 30	3 35	24 42	1 24	10 59	1 18	13 19	0 6	0n 3	0 52	15 14	1 7	22 38	0 18	22 14	0 30	11 22	1 47	4 47	14 21	23 1	22 59	11 30	6 40	2 5	
T 31	3n58	23s33	0s18	11n45	1n30	13n46	0s 4	0n22	0s52	15n15	1n 7	22n38	0s18	22n14	0n30	11s22	1n47	4n47	14s21	23s 1	22s59	11s32	6n42	2n	

Julian Day Number = 2496163.5, Delta T = 104.46 sec

Ecliptic obliquity = $23^{\circ}25'27''$. Nutation = $0^{\circ}00'18''$, out-of-bounds declination in red

Avanamsha: Fagan/Bradley = 26°26'50". Lahiri = 25°33'50".

ASTRODIENST EPHEMERIS for the year 2122
geocentric

APRIL 2122

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	12 36 30	11°19' 1'25	19°35' 4	28°27' 27	8°10' 10	3°42' 42	21°R51	11°29' 29	21°18' 18	4°R34	23°48' 48	10°R28	10°34' 42	17°29' 29	12°19' 9	W 1
T 2	12 40 27	12° 0'43	3°35' 5	29°56' 56	9°23' 23	4°28' 28	21°Q48	11°31' 31	21°18' 18	4°M33	23°49' 49	10°37' 27	10°38' 38	17°36' 36	12°12' 12	T 2
F 3	12 44 24	12°59' 59	17° 4' 4	1°18' 19	10°36' 36	5°15' 15	21°45' 45	11°33' 33	21°18' 18	4°31' 31	23°50' 50	10°24' 24	10°35' 35	17°42' 42	12°16' 16	F 3
S 4	12 48 20	13°59' 12	1°22' 22	2°36' 36	11°49' 49	6° 2' 2	21°42' 42	11°36' 36	21°18' 18	4°30' 30	23°51' 51	10°18' 18	10°32' 32	17°49' 49	12°19' 19	S 4
S 5	12 52 17	14°58' 25	16° 8' 8	3°49' 49	13° 2' 2	6°48' 48	21°40' 40	11°38' 38	21°19' 19	4°28' 28	23°52' 52	10°10' 10	10°29' 29	17°56' 56	12°23' 23	S 5
M 6	12 56 13	15°57' 35	1°15' 15	4°55' 55	14°15' 15	7°35' 35	21°37' 37	11°41' 41	21°19' 19	4°27' 27	23°53' 53	10° 0' 0	10°26' 26	18° 2' 2	12°27' 27	M 6
T 7	13 0 10	16°56' 43	16°35' 35	5°55' 55	15°28' 28	8°22' 22	21°35' 35	11°43' 43	21°19' 19	4°25' 25	23°55' 55	9°49' 49	10°23' 23	18° 9' 9	12°30' 30	T 7
W 8	13 4 6	17°55' 49	1°54' 54	6°48' 48	16°41' 41	9° 8' 8	21°33' 33	11°46' 46	21°20' 20	4°24' 24	23°56' 56	9°38' 38	10°19' 19	18°16' 16	12°34' 34	W 8
T 9	13 8 3	18°54' 53	17° 2' 2	7°35' 35	17°54' 54	9°55' 55	21°32' 32	11°49' 49	21°20' 20	4°22' 22	23°57' 57	9°29' 29	10°16' 16	18°23' 23	12°37' 37	T 9
F 10	13 11 59	19°53' 56	1°15' 15	8°16' 16	19° 7' 7	10°41' 41	21°30' 30	11°52' 52	21°21' 21	4°21' 21	23°58' 58	9°22' 22	10°13' 13	18°29' 29	12°41' 41	F 10
S 11	13 15 56	20°52' 55	16°12' 12	8°50' 50	20°20' 20	11°27' 27	21°29' 29	11°55' 55	21°22' 22	4°19' 19	23°59' 59	9°18' 18	10°10' 10	18°36' 36	12°45' 45	S 11
S 12	13 19 53	21°51' 53	0°26' 26	9°17' 17	21°32' 32	12°14' 14	21°28' 28	11°58' 58	21°22' 22	4°18' 18	24° 0' 0	9°16' 16	10° 7' 7	18°43' 43	12°48' 48	S 12
M13	13 23 49	22°50' 48	13°29' 29	9°37' 37	22°45' 45	13° 0' 0	21°27' 27	12° 1' 1	21°23' 23	4°16' 16	24° 1' 1	9°D16	10° 3' 3	18°50' 50	12°52' 52	M13
T 14	13 27 46	23°49' 41	26°28' 28	9°51' 51	23°58' 58	13°46' 46	21°26' 26	12° 5' 5	21°24' 24	4°14' 14	24° 3' 3	9°R16	10° 0' 0	18°56' 56	12°55' 55	T 14
W15	13 31 42	24°48' 32	9°Q 6	9°58' 58	25°10' 10	14°33' 33	21°25' 25	12° 8' 8	21°25' 25	4°13' 13	24° 4' 4	9°16' 16	9°57' 57	19° 3' 3	12°59' 59	W15
T 16	13 35 39	25°47' 20	21°28' 28	9°R59	26°23' 23	15°19' 19	21°25' 25	12°12' 12	21°26' 26	4°11' 11	24° 5' 5	9°13' 13	9°54' 54	19°10' 10	13° 2' 2	T 16
F 17	13 39 35	26°46' 07	3°M37	9°54' 54	27°35' 35	16° 5' 5	21°25' 25	12°15' 15	21°26' 26	4°10' 10	24° 6' 6	9° 7' 7	9°51' 51	19°16' 16	13° 6' 6	F 17
S 18	13 43 32	27°44' 50	15°38' 38	9°42' 42	28°47' 47	16°51' 51	21°D25	12°19' 19	21°27' 27	4° 8' 8	24° 7' 7	8°59' 59	9°48' 48	19°23' 23	13° 9' 9	S 18
S 19	13 47 28	28°43' 32	27°34' 34	9°25' 25	29°59' 59	17°37' 37	21°25' 25	12°23' 23	21°29' 29	4° 6' 6	24° 9' 9	8°49' 49	9°44' 44	19°30' 30	13°13' 13	S 19
M20	13 51 25	29°42' 12	9°Q27	9° 3' 3	1°11' 12	18°23' 23	21°25' 25	12°27' 27	21°30' 30	4° 5' 5	24°10' 10	8°37' 37	9°41' 41	19°37' 37	13°16' 16	M20
T 21	13 55 22	0°34' 49	21°20' 20	8°36' 36	2°24' 24	19° 9' 9	21°26' 26	12°31' 31	21°31' 31	4° 3' 3	24°11' 11	8°24' 24	9°38' 38	19°43' 43	13°20' 20	T 21
W22	13 59 18	1°39' 25	3°M13	8° 5' 5	3°36' 36	19°55' 55	21°27' 27	12°35' 35	21°32' 32	4° 1' 1	24°12' 12	8°12' 12	9°35' 35	19°50' 50	13°23' 23	W22
T 23	14 3 15	2°37' 59	15° 8' 8	7°31' 31	4°48' 48	20°41' 41	21°27' 27	12°39' 39	21°33' 33	4° 0' 0	24°14' 14	8° 0' 0	9°32' 32	19°57' 57	13°26' 26	T 23
F 24	14 7 11	3°36' 31	27° 7' 7	6°54' 54	6° 0' 0	21°27' 27	21°28' 28	12°43' 43	21°35' 35	3°58' 58	24°15' 15	7°51' 51	9°28' 28	20° 3' 3	13°30' 30	F 24
S 25	14 11 8	4°35' 01	9°A11	6°15' 15	7°12' 12	22°12' 12	21°30' 30	12°47' 47	21°36' 36	3°56' 56	24°16' 16	7°45' 45	9°25' 25	20°10' 10	13°33' 33	S 25
S 26	14 15 4	5°33' 30	21°23' 23	5°34' 34	8°24' 24	22°58' 58	21°31' 31	12°52' 52	21°37' 37	3°55' 55	24°18' 18	7°41' 41	9°22' 22	20°17' 17	13°37' 37	S 26
M27	14 19 1	6°31' 57	3°B46	4°53' 53	9°36' 36	23°44' 44	21°33' 33	12°56' 56	21°39' 39	3°53' 53	24°19' 19	7°D40	9°19' 19	20°24' 24	13°40' 40	M27
T 28	14 22 57	7°30' 22	16°23' 23	4°12' 12	10°47' 47	24°30' 30	21°35' 35	13° 1' 1	21°40' 40	3°52' 52	24°20' 20	7°40' 40	9°16' 16	20°30' 30	13°43' 43	T 28
W29	14 26 54	8°28' 46	29°18' 18	3°32' 32	11°59' 59	25°15' 15	21°37' 37	13° 6' 6	21°42' 42	3°50' 50	24°21' 21	7°41' 41	9°13' 13	20°37' 37	13°47' 47	W29
T 30	14 30 51	9°27' 08	12°35' 35	2°B54	13°11' 11	26°19' 19	21°Q39	13°10' 10	21°43' 43	3°M48	24°23' 23	7°R41	9°B 9	20°44' 44	13°50' 50	T 30

Day	☉	☾	♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	4n22	21s 8	0n50	12n30	1n41	14n12	0s 1	0n41	0s51	15n16	1n 7	22n38	0s18	22n14	0n30	11s21	1n47	4n47	14s20	23s 1	23s 0	11s35	6n43	2n 5		
T 2	4 45	17 31	1 57	13 12	1 53	14 39	0n 2	1 0	0 51	15 17	1 7	22 38	0 18	22 14	0 30	11 21	1 47	4 48	14 20	23 1	23 0	11 37	6 44	2 5		
F 3	5 8	12 51	3 0	13 51	2 3	15 4	0 5	1 19	0 50	15 18	1 7	22 38	0 18	22 14	0 30	11 20	1 47	4 48	14 20	23 1	23 0	11 40	6 46	2 5		
S 4	5 31	7 20	3 54	14 28	2 13	15 30	0 8	1 38	0 50	15 19	1 6	22 38	0 18	22 14	0 30	11 20	1 47	4 49	14 20	23 1	23 0	11 42	6 47	2 5		
S 5	5 54	1 15	4 35	15 1	2 23	15 55	0 11	1 57	0 49	15 19	1 6	22 38	0 17	22 14	0 30	11 19	1 47	4 49	14 20	23 2	23 1	11 44	6 48	2 5		
M 6	6 17	5n 2	4 57	15 32	2 32	16 20	0 14	2 15	0 49	15 20	1 6	22 37	0 17	22 14	0 30	11 18	1 48	4 50	14 19	23 3	23 1	11 47	6 50	2 5		
T 7	6 39	11 6	4 58	16 0	2 40	16 44	0 17	2 34	0 49	15 21	1 6	22 37	0 17	22 14	0 30	11 18	1 48	4 50	14 19	23 4	23 1	11 49	6 51	2 5		
W 8	7 2	16 28	4 38	16 24	2 47	17 8	0 20	2 53	0 48	15 21	1 6	22 37	0 17	22 14	0 30	11 17	1 48	4 51	14 19	23 4	23 1	11 52	6 52	2 5		
T 9	7 24	20 44	3 59	16 46	2 53	17 31	0 23	3 11	0 48	15 22	1 6	22 37	0 17	22 13	0 30	11 17	1 48	4 51	14 19	23 5	23 2	11 54	6 54	2 4		
F 10	7 47	23 31	3 4	17 4	2 58	17 54	0 26	3 30	0 47	15 22	1 6	22 37	0 17	22 13	0 30	11 16	1 48	4 52	14 19	23 6	23 2	11 57	6 55	2 4		
S 11	8 9	24 41	1 59	17 18	3 2	18 17	0 28	3 49	0 47	15 22	1 6	22 37	0 17	22 13	0 30	11 16	1 48	4 52	14 18	23 6	23 2	11 59	6 56	2 4		
S 12	8 31	24 14	0 49	17 30	3 5	18 39	0 31	4 7	0 46	15 23	1 6	22 37	0 17	22 13	0 30	11 15	1 48	4 52	14 18	23 6	23 2	12 2	6 58	2 4		
M13	8 53	22 22	0s22	17 37	3 6	19 0	0 34	4 26	0 46	15 23	1 6	22 37	0 16	22 13	0 30	11 15	1 48	4 53	14 18	23 6	23 3	12 4	6 59	2 4		
T 14	9 15	19 23	1 30	17 42	3 6	19 21	0 37	4 44	0 45	15 23	1 5	22 36	0 16	22 13	0 30	11 14	1 48	4 53	14 18	23 6	23 3	12 7	7 0	2 4		
W15	9 36	15 32	2 31	17 43	3 5	19 42	0 40	5 2	0 45	15 23	1 5	22 36	0 16	22 13	0 30	11 14	1 48	4 54	14 18	23 6	23 3	12 9	7 2	2 4		
T 16	9 58	11 7	3 24	17 41	3 2	20 2	0 43	5 21	0 44	15 23	1 5	22 36	0 16	22 13	0 30	11 13	1 48	4 54	14 18	23 6	23 3	12 12	7 3	2 4		
F 17	10 19	6 21	4 6	17 35	2 58	20 21	0 46	5 39	0 44	15 23	1 5	22 36	0 16	22 12	0 30	11 12	1 48	4 55	14 17	23 7	23 4	12 14	7 4	2 4		
S 18	10 40	1 24	4 37	17 26	2 52	20 40	0 49	5 57	0 43	15 23	1 5	22 36	0 16	22 12	0 30	11 12	1 48	4 55	14 17	23 7	23 4	12 16	7 6	2 4		
S 19	11 1	3s33	4 56	17 14	2 45	20 59	0 52	6 15	0 43	15 23	1 5	22 35	0 16	22 12	0 30	11 11	1 48	4 55	14 17	23 8	23 4	12 19	7 7	2 4		
M20	11 22	8 22	5 1	16 59	2 37	21 17	0 55	6 33	0 42	15 22	1 5	22 35	0 16	22 12	0 30	11 11	1 48	4 56	14 17	23 9	23 4	12 21	7 8	2 4		
T 21	11 42	12 51	4 54	16 41	2 27	21 34	0 58	6 51	0 42	15 22	1 5	22 35	0 15	22 12	0 30	11 10	1 48	4 56	14 17	23 9	23 4	12 24	7 10	2 4		
W22	12 3	16 51	4 34	16 20	2 15	21 51	1 1	7 9	0 41	15 22	1 4	22 35	0 15	22 11	0 30	11 10	1 48	4 57	14 17	23 10	23 5	12 26	7 11	2 4		
T 23	12 23	20 12	4 1	15 57	2 3	22 7	1 3	7 26	0 41	15 21	1 4	22 34	0 15	22 11	0 30	11 9	1 48	4 57	14 16	23 11	23 5	12 29	7 12	2 4		
F 24	12 43	22 42	3 18	15 32	1 49	22 23	1 6	7 44	0 40	15 21	1 4	22 34	0 15	22 11	0 30	11 9	1 48	4 58	14 16	23 11	23 5	12 31	7 14	2 4		
S 25	13 2	24 13	2 26	15 5	1 35	22 38	1 9	8 2	0 40	15 20	1 4	22 34	0 15	22 11	0 30	11 8	1 48	4 58	14 16	23 12	23 5	12 33	7 15	2 4		
S 26	13 22	24 34	1 26	14 37	1 19	22 52	1 12	8 19	0 39	15 20	1 4	22 33	0 15	22 10	0 30	11 7	1 48	4 58	14 16	23 12	23 6	12 36	7 16	2 4		
M27	13 41	23 43	0 21	14 8	1 3	23 6	1 15	8 37	0 39	15 19	1 4	22 33	0 15	22 10	0 30	11 7	1 48	4 59	14 16	23 12	23 6	12 38	7 17	2 4		
T 28	14 0	21 39	0n46	13 38	0 46	23 19	1 17	8 54	0 38	15 19	1 4	22 33	0 15	22 10	0 29	11 6	1 48	4 59	14 16	23 12	23 6	12 41	7 19	2 4		
W29	14 19	18 26	1 53	13 9	0 29	23 32	1 20	9 11	0 37	15 18	1 4	22 32	0 14	22 10	0 29	11 6	1 48	5 0	14 16	23 12	23 6	12 43	7 20	2 4		
T 30	14n38	14s13	2n55	12n40	0n12	23n44	1n22	9n28	0s37	15n17	1n 4	22n32	0s14	22n 9	0n29	11s 5	1n48	5n 0	14s16	23s12	23s 6	12s45	7n21	2n 5		

ASTRODIENST EPHEMERIS for the year 2122
geocentric

MAY 2122

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	14 34 47	10♌25'28	26♋16	2°R18	14♊22	26♋46	21♊41	13♌15	21♌45	3°R47	24♌24	7°R40	9♌6	20♌51	13♋53	F 1
S 2	14 38 44	11°23'47	10♋23	1♌44	15°33	27°32	21°44	13°20	21°47	3♌45	24°25	7♌37	9°3	20°57	13°57	S 2
S 3	14 42 40	12°22'05	24°56	1°14	16°45	28°17	21°46	13°25	21°48	3°43	24°27	7°32	9°0	21°4	14°0	S 3
M 4	14 46 37	13°20'21	9♋50	0°48	17°56	29°3	21°49	13°30	21°50	3°42	24°28	7°25	8°57	21°11	14°3	M 4
T 5	14 50 33	14°18'35	24°57	0°26	19°7	29°48	21°52	13°35	21°52	3°40	24°29	7°17	8°54	21°17	14°6	T 5
W 6	14 54 30	15°16'48	10♌10	0°8	20°18	0♌33	21°56	13°41	21°54	3°39	24°31	7°9	8°50	21°24	14°9	W 6
T 7	14 58 26	16°14'59	25°16	29♋55	21°29	1°19	21°59	13°46	21°56	3°37	24°32	7°2	8°47	21°31	14°13	T 7
F 8	15 2 23	17°13'09	10♊7	29°46	22°40	2°4	22°3	13°51	21°58	3°35	24°33	6°57	8°44	21°38	14°16	F 8
S 9	15 6 20	18°11'16	24°34	29°D42	23°51	2°49	22°6	13°57	22°0	3°34	24°35	6°55	8°41	21°44	14°19	S 9
S 10	15 10 16	19°9'22	8♌34	29°42	25°2	3°34	22°10	14°2	22°2	3°32	24°36	6°D54	8°38	21°51	14°22	S 10
M 11	15 14 13	20°7'26	22°6	29°48	26°13	4°19	22°14	14°8	22°4	3°31	24°37	6°55	8°34	21°58	14°25	M 11
T 12	15 18 9	21°5'28	5♊12	29°58	27°23	5°4	22°19	14°13	22°6	3°29	24°39	6°56	8°31	22°4	14°28	T 12
W 13	15 22 6	22°3'28	17°54	0♌12	28°34	5°49	22°23	14°19	22°8	3°28	24°40	6°R57	8°28	22°11	14°31	W 13
T 14	15 26 2	23°1'27	0♎18	0°32	29°44	6°34	22°28	14°25	22°11	3°26	24°42	6°57	8°25	22°18	14°34	T 14
F 15	15 29 59	23°59'23	12°27	0°55	0♌55	7°19	22°32	14°31	22°13	3°25	24°43	6°55	8°22	22°25	14°37	F 15
S 16	15 33 55	24°57'18	24°27	1°23	2°5	8°4	22°37	14°37	22°15	3°23	24°44	6°51	8°19	22°31	14°40	S 16
S 17	15 37 52	25°55'11	6♌20	1°55	3°15	8°48	22°42	14°43	22°18	3°22	24°46	6°46	8°15	22°38	14°43	S 17
M 18	15 41 49	26°53'02	18°12	2°31	4°25	9°33	22°47	14°49	22°20	3°20	24°47	6°39	8°12	22°45	14°46	M 18
T 19	15 45 45	27°50'51	0♎5	3°10	5°35	10°18	22°53	14°55	22°22	3°19	24°48	6°32	8°9	22°51	14°49	T 19
W 20	15 49 42	28°48'39	12°1	3°54	6°45	11°2	22°58	15°1	22°25	3°17	24°50	6°25	8°6	22°58	14°51	W 20
T 21	15 53 38	29°46'26	24°1	4°41	7°55	11°47	23°4	15°7	22°27	3°16	24°51	6°19	8°3	23°5	14°54	T 21
F 22	15 57 35	0♊44'11	6♌9	5°32	9°5	12°31	23°10	15°13	22°30	3°14	24°52	6°14	8°0	23°12	14°57	F 22
S 23	16 1 31	1°41'55	18°25	6°26	10°14	13°16	23°16	15°20	22°32	3°13	24°54	6°11	7°56	23°18	14°59	S 23
S 24	16 5 28	2°39'38	0♌51	7°23	11°24	14°0	23°22	15°26	22°35	3°12	24°55	6°D10	7°53	23°25	15°2	S 24
M 25	16 9 24	3°37'19	13°27	8°23	12°33	14°45	23°28	15°33	22°38	3°10	24°56	6°10	7°50	23°32	15°5	M 25
T 26	16 13 21	4°35'00	26°17	9°27	13°42	15°29	23°34	15°39	22°40	3°9	24°58	6°11	7°47	23°39	15°7	T 26
W 27	16 17 18	5°32'39	9♋22	10°34	14°51	16°13	23°41	15°46	22°43	3°8	24°59	6°12	7°44	23°45	15°10	W 27
T 28	16 21 14	6°30'17	22°43	11°43	16°0	16°57	23°47	15°52	22°46	3°6	25°0	6°14	7°40	23°52	15°12	T 28
F 29	16 25 11	7°27'55	6♌24	12°55	17°9	17°41	23°54	15°59	22°49	3°5	25°2	6°R14	7°37	23°59	15°15	F 29
S 30	16 29 7	8°25'31	20°24	14°11	18°18	18°25	24°1	16°5	22°52	3°4	25°3	6°14	7°34	24°5	15°17	S 30
S 31	16 33 4	9♊23'06	4♋42	15♌29	19♌27	19♌9	24♌8	16♌12	22♌54	3♌2	25♌4	6♌12	7♌31	24♌12	15♋20	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	14n56	9s 9	3n50	12n11	0s 5	23n55	1n25	9n45	0s36	15n16	1n 3	22n32	0s14	22n 9	0n29	11s 5	1n48	5n 0	14s16	23s12	23s 7	12s48	7n23	2n 4	
S 2	15 14	3 28	4 32	11 44	0 22	24 6	1 28	10 2	0 36	15 15	1 3	22 31	0 14	22 9	0 29	11 4	1 48	5 1	14 15	23 12	23 7	12 50	7 24	2 4	
S 3	15 32	2n33	4 58	11 18	0 39	24 16	1 30	10 19	0 35	15 14	1 3	22 31	0 14	22 9	0 29	11 4	1 48	5 1	14 15	23 13	23 7	12 53	7 25	2 4	
M 4	15 50	8 34	5 5	10 53	0 55	24 25	1 33	10 35	0 35	15 13	1 3	22 31	0 14	22 8	0 29	11 3	1 48	5 2	14 15	23 13	23 7	12 55	7 26	2 4	
T 5	16 7	14 10	4 51	10 31	1 11	24 33	1 35	10 52	0 34	15 12	1 3	22 30	0 14	22 8	0 29	11 3	1 48	5 2	14 15	23 13	23 8	12 57	7 27	2 4	
W 6	16 24	18 55	4 17	10 10	1 26	24 41	1 37	11 8	0 34	15 11	1 3	22 30	0 14	22 8	0 29	11 2	1 48	5 2	14 15	23 14	23 8	13 0	7 29	2 4	
T 7	16 41	22 23	3 25	9 52	1 40	24 49	1 40	11 24	0 33	15 10	1 3	22 29	0 14	22 7	0 29	11 1	1 48	5 3	14 15	23 14	23 8	13 2	7 30	2 4	
F 8	16 58	24 15	2 19	9 37	1 53	24 55	1 42	11 41	0 32	15 8	1 3	22 29	0 13	22 7	0 29	11 1	1 48	5 3	14 15	23 14	23 8	13 4	7 31	2 4	
S 9	17 14	24 25	1 6	9 24	2 6	25 1	1 44	11 57	0 32	15 7	1 2	22 28	0 13	22 7	0 29	11 0	1 48	5 3	14 15	23 15	23 8	13 7	7 32	2 4	
S 10	17 30	23 0	0s 9	9 13	2 18	25 6	1 46	12 13	0 31	15 6	1 2	22 28	0 13	22 6	0 29	11 0	1 48	5 4	14 15	23 15	23 9	13 9	7 34	2 4	
M11	17 46	20 17	1 21	9 5	2 28	25 11	1 48	12 28	0 31	15 4	1 2	22 27	0 13	22 6	0 29	10 59	1 48	5 4	14 15	23 15	23 9	13 11	7 35	2 4	
T 12	18 1	16 35	2 27	8 59	2 38	25 14	1 50	12 44	0 30	15 3	1 2	22 27	0 13	22 6	0 29	10 59	1 48	5 4	14 15	23 15	23 9	13 14	7 36	2 4	
W13	18 16	12 14	3 23	8 56	2 47	25 17	1 52	12 59	0 29	15 1	1 2	22 26	0 13	22 5	0 29	10 58	1 48	5 5	14 15	23 14	23 9	13 16	7 37	2 4	
T 14	18 31	7 29	4 8	8 55	2 55	25 20	1 54	13 15	0 29	15 0	1 2	22 26	0 13	22 5	0 29	10 58	1 48	5 5	14 15	23 15	23 9	13 18	7 38	2 4	
F 15	18 45	2 33	4 42	8 57	3 2	25 21	1 56	13 30	0 28	14 58	1 2	22 25	0 13	22 4	0 29	10 57	1 48	5 5	14 15	23 15	23 10	13 21	7 39	2 4	
S 16	19 0	2s25	5 2	9 0	3 8	25 22	1 58	13 45	0 28	14 56	1 2	22 25	0 13	22 4	0 29	10 57	1 48	5 6	14 15	23 15	23 10	13 23	7 41	2 4	
S 17	19 13	7 15	5 9	9 6	3 13	25 23	2 0	14 0	0 27	14 54	1 2	22 24	0 12	22 4	0 29	10 56	1 48	5 6	14 15	23 15	23 10	13 25	7 42	2 4	
M18	19 27	11 48	5 3	9 15	3 17	25 22	2 1	14 15	0 26	14 53	1 1	22 24	0 12	22 3	0 29	10 56	1 48	5 6	14 15	23 15	23 10	13 28	7 43	2 4	
T 19	19 40	15 55	4 44	9 25	3 21	25 21	2 3	14 29	0 26	14 51	1 1	22 23	0 12	22 3	0 29	10 55	1 47	5 7	14 15	23 16	23 10	13 30	7 44	2 4	
W20	19 53	19 25	4 12	9 37	3 24	25 19	2 4	14 44	0 25	14 49	1 1	22 23	0 12	22 2	0 29	10 55	1 47	5 7	14 15	23 16	23 11	13 32	7 45	2 4	
T 21	20 5	22 8	3 29	9 51	3 25	25 17	2 6	14 58	0 25	14 47	1 1	22 22	0 12	22 2	0 29	10 55	1 47	5 7	14 15	23 16	23 11	13 35	7 46	2 4	
F 22	20 17	23 53	2 36	10 7	3 26	25 13	2 7	15 12	0 24	14 45	1 1	22 21	0 12	22 2	0 29	10 54	1 47	5 8	14 15	23 17	23 11	13 37	7 47	2 4	
S 23	20 29	24 30	1 35	10 24	3 27	25 10	2 8	15 26	0 23	14 43	1 1	22 21	0 12	22 1	0 29	10 54	1 47	5 8	14 15	23 17	23 11	13 39	7 48	2 4	
S 24	20 41	23 54	0 29	10 43	3 26	25 5	2 9	15 40	0 23	14 41	1 1	22 20	0 12	22 1	0 29	10 53	1 47	5 8	14 15	23 17	23 11	13 42	7 49	2 4	
M25	20 52	22 5	0n40	11 4	3 25	25 0	2 10	15 54	0 22	14 39	1 1	22 20	0 12	22 0	0 29	10 53	1 47	5 9	14 15	23 17	23 12	13 44	7 50	2 4	
T 26	21 3	19 7	1 48	11 25	3 23	24 54	2 11	16 7	0 21	14 36	1 1	22 19	0 12	22 0	0 29	10 52	1 47	5 9	14 15	23 17	23 12	13 46	7 51	2 4	
W27	21 13	15 8	2 52	11 49	3 20	24 47	2 12	16 21	0 21	14 34	1 0	22 18	0 11	21 59	0 29	10 52	1 47	5 9	14 15	23 17	23 12	13 48	7 52	2 4	
T 28	21 23	10 21	3 48	12 13	3 17	24 40	2 13	16 34	0 20	14 32	1 0	22 18	0 11	21 59	0 29	10 52	1 47	5 9	14 15	23 17	23 12	13 51	7 53	2 4	
F 29	21 32	4 56	4 32	12 39	3 13	24 32	2 14	16 47	0 19	14 30	1 0	22 17	0 11	21 58	0 29	10 51	1 47	5 10	14 15	23 17	23 12	13 53	7 54	2 4	
S 30	21 42	0n49	5 2	13 5	3 8	24 24	2 15	17 0	0 19	14 27	1 0	22 16	0 11	21 58	0 29	10 51	1 47	5 10	14 15	23 17	23 12	13 55	7 55	2 4	
S 31	21n51	6n40	5n13	13n33	3s 3	24n15	2n15	17n13	0s18	14n25	1n 0	22n16	0s11	21n57	0n29	10s50	1n47	5n10	14s15	23s17	23s13	13s57	7n56	2n 4	

ASTRODIENST EPHEMERIS for the year 2122
geocentric

JUNE 2122

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 37 0	10II20'41	19Y17	16849	20335	19853	24815	16819	22357	3°R 1	258 6	6°R10	7328	24819	15Y22	M 1
T 2	16 40 57	11°18'15	48 4	18°13	21°44	20°37	24°23	16°26	23° 0	3M 0	25° 7	63 6	7°25	24°26	15°24	T 2
W 3	16 44 53	12°15'48	18°55	19°39	22°52	21°21	24°30	16°33	23° 3	2°59	25° 8	6° 3	7°21	24°32	15°27	W 3
T 4	16 48 50	13°13'20	3II43	21° 7	24° 0	22° 5	24°38	16°40	23° 6	2°58	25°10	6° 0	7°18	24°39	15°29	T 4
F 5	16 52 47	14°10'51	18°20	22°39	25° 8	22°49	24°45	16°47	23° 9	2°56	25°11	5°59	7°15	24°46	15°31	F 5
S 6	16 56 43	15° 8'22	2340	24°12	26°16	23°32	24°53	16°54	23°12	2°55	25°12	5°D58	7°12	24°52	15°33	S 6
S 7	17 0 40	16° 5'51	16°38	25°49	27°24	24°16	25° 1	17° 1	23°15	2°54	25°13	5°58	7° 9	24°59	15°36	S 7
M 8	17 4 36	17° 3'19	0812	27°28	28°32	24°59	25° 9	17° 8	23°18	2°53	25°15	5°59	7° 6	25° 6	15°38	M 8
T 9	17 8 33	18° 0'46	13°21	29° 9	29°39	25°43	25°17	17°15	23°22	2°52	25°16	6° 0	7° 2	25°13	15°40	T 9
W10	17 12 29	18°58'11	26° 8	0II53	0847	26°26	25°25	17°22	23°25	2°51	25°17	6° 2	6°59	25°19	15°42	W10
T 11	17 16 26	19°55'36	8II36	2°40	1°54	27°10	25°34	17°29	23°28	2°50	25°19	6° 3	6°56	25°26	15°44	T 11
F 12	17 20 22	20°52'59	20°48	4°29	3° 1	27°53	25°42	17°36	23°31	2°49	25°20	6°R 3	6°53	25°33	15°46	F 12
S 13	17 24 19	21°50'21	2848	6°20	4° 8	28°36	25°51	17°44	23°34	2°48	25°21	6° 3	6°50	25°39	15°47	S 13
S 14	17 28 16	22°47'43	14°43	8°14	5°14	29°19	26° 0	17°51	23°37	2°47	25°22	6° 2	6°46	25°46	15°49	S 14
M15	17 32 12	23°45'03	26°35	10°11	6°21	0II 3	26° 9	17°58	23°41	2°46	25°23	6° 0	6°43	25°53	15°51	M15
T 16	17 36 9	24°42'23	8II29	12° 9	7°27	0°46	26°18	18° 6	23°44	2°45	25°25	5°59	6°40	26° 0	15°53	T 16
W17	17 40 5	25°39'41	20°29	14°10	8°34	1°29	26°27	18°13	23°47	2°45	25°26	5°57	6°37	26° 6	15°54	W17
T 18	17 44 2	26°36'59	2836	16°12	9°40	2°12	26°36	18°20	23°51	2°44	25°27	5°56	6°34	26°13	15°56	T 18
F 19	17 47 58	27°34'16	14°54	18°17	10°45	2°55	26°45	18°28	23°54	2°43	25°28	5°55	6°31	26°20	15°58	F 19
S 20	17 51 55	28°31'33	27°25	20°23	11°51	3°38	26°54	18°35	23°57	2°42	25°29	5°55	6°27	26°26	15°59	S 20
S 21	17 55 51	29°28'49	103 8	22°31	12°56	4°20	27° 4	18°43	24° 1	2°41	25°31	5°D54	6°24	26°33	16° 1	S 21
M22	17 59 48	0826'05	23° 4	24°40	14° 2	5° 3	27°13	18°50	24° 4	2°41	25°32	5°55	6°21	26°40	16° 2	M22
T 23	18 3 45	1°23'20	6815	26°50	15° 7	5°46	27°23	18°58	24° 8	2°40	25°33	5°55	6°18	26°47	16° 4	T 23
W24	18 7 41	2°20'35	19°39	29° 1	16°11	6°28	27°33	19° 6	24°11	2°39	25°34	5°55	6°15	26°53	16° 5	W24
T 25	18 11 38	3°17'49	3317	18°13	17°16	7°11	27°43	19°13	24°15	2°39	25°35	5°56	6°12	27° 0	16° 6	T 25
F 26	18 15 34	4°15'04	17° 7	3°24	18°20	7°53	27°53	19°21	24°18	2°38	25°36	5°56	6° 8	27° 7	16° 7	F 26
S 27	18 19 31	5°12'18	1Y 9	5°36	19°25	8°36	28° 3	19°28	24°22	2°38	25°37	5°56	6° 5	27°13	16° 9	S 27
S 28	18 23 27	6° 9'32	15°20	7°47	20°28	9°18	28°13	19°36	24°25	2°37	25°38	5°56	6° 2	27°20	16°10	S 28
M29	18 27 24	7° 6'46	29°40	9°57	21°32	10° 1	28°23	19°44	24°29	2°37	25°39	5°56	5°59	27°27	16°11	M29
T 30	18 31 20	828 4'01	148 4	128 7	228136	10II43	288133	19851	24832	28136	25840	5856	5856	27834	16Y12	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	21n59	12n15	5n 5	14n 1	2s57	24n 5	2n15	17n25	0s17	14n22	1n 0	22n15	0s11	21n57	0n29	10s50	1n47	5n10	14s15	23s17	23s13	14s 0	7n57	2n 4	
T 2	22 7	17 12	4 37	14 30	2 51	23 54	2 16	17 37	0 17	14 20	1 0	22 14	0 11	21 56	0 29	10 50	1 47	5 11	14 15	23 17	23 13	14 2	7 58	2 4	
W 3	22 15	21 7	3 50	15 0	2 44	23 43	2 16	17 50	0 16	14 17	1 0	22 13	0 11	21 56	0 29	10 49	1 47	5 11	14 15	23 17	23 13	14 4	7 59	2 4	
T 4	22 22	23 38	2 48	15 30	2 37	23 32	2 16	18 2	0 16	14 15	1 0	22 13	0 11	21 55	0 29	10 49	1 47	5 11	14 15	23 17	23 13	14 7	8 0	2 4	
F 5	22 29	24 30	1 36	16 1	2 29	23 19	2 16	18 13	0 15	14 12	1 0	22 12	0 11	21 55	0 29	10 48	1 47	5 11	14 15	23 17	23 14	14 9	8 1	2 4	
S 6	22 36	23 42	0 18	16 32	2 21	23 7	2 16	18 25	0 14	14 9	0 59	22 11	0 10	21 54	0 29	10 48	1 47	5 12	14 15	23 17	23 14	14 11	8 2	2 4	
S 7	22 42	21 25	0s59	17 4	2 12	22 53	2 16	18 36	0 14	14 6	0 59	22 10	0 10	21 54	0 29	10 48	1 47	5 12	14 15	23 17	23 14	14 13	8 2	2 4	
M 8	22 48	17 59	2 10	17 35	2 3	22 39	2 16	18 48	0 13	14 4	0 59	22 9	0 10	21 53	0 29	10 47	1 47	5 12	14 15	23 17	23 14	14 15	8 3	2 4	
T 9	22 53	13 44	3 12	18 7	1 53	22 25	2 15	18 59	0 12	14 1	0 59	22 9	0 10	21 53	0 29	10 47	1 47	5 12	14 15	23 17	23 14	14 18	8 4	2 4	
W10	22 58	8 59	4 3	18 38	1 43	22 10	2 15	19 9	0 12	13 58	0 59	22 8	0 10	21 52	0 29	10 47	1 47	5 12	14 15	23 17	23 14	14 20	8 5	2 4	
T 11	23 2	4 0	4 40	19 10	1 33	21 54	2 14	19 20	0 11	13 55	0 59	22 7	0 10	21 52	0 29	10 47	1 47	5 13	14 15	23 17	23 15	14 22	8 6	2 4	
F 12	23 7	1s 1	5 5	19 40	1 22	21 38	2 13	19 31	0 10	13 52	0 59	22 6	0 10	21 51	0 29	10 46	1 47	5 13	14 16	23 17	23 15	14 24	8 6	2 4	
S 13	23 10	5 56	5 15	20 11	1 12	21 21	2 13	19 41	0 10	13 49	0 59	22 5	0 10	21 51	0 29	10 46	1 47	5 13	14 16	23 17	23 15	14 27	8 7	2 4	
S 14	23 14	10 35	5 12	20 40	1 1	21 4	2 12	19 51	0 9	13 46	0 59	22 4	0 10	21 50	0 29	10 46	1 47	5 13	14 16	23 17	23 15	14 29	8 8	2 4	
M15	23 17	14 50	4 56	21 8	0 50	20 47	2 11	20 1	0 8	13 43	0 59	22 4	0 10	21 49	0 29	10 45	1 47	5 13	14 16	23 17	23 15	14 31	8 9	2 4	
T 16	23 19	18 32	4 27	21 36	0 39	20 29	2 9	20 10	0 7	13 40	0 59	22 3	0 9	21 49	0 29	10 45	1 47	5 13	14 16	23 17	23 15	14 33	8 9	2 4	
W17	23 21	21 29	3 46	22 2	0 27	20 10	2 8	20 20	0 7	13 37	0 58	22 2	0 9	21 48	0 29	10 45	1 46	5 14	14 16	23 17	23 15	14 35	8 10	2 4	
T 18	23 23	23 31	2 54	22 27	0 16	19 51	2 7	20 29	0 6	13 33	0 58	22 1	0 9	21 48	0 29	10 45	1 46	5 14	14 16	23 17	23 16	14 38	8 11	2 4	
F 19	23 24	24 27	1 54	22 49	0 5	19 32	2 5	20 38	0 5	13 30	0 58	22 0	0 9	21 47	0 29	10 44	1 46	5 14	14 16	23 17	23 16	14 40	8 11	2 4	
S 20	23 25	24 11	0 47	23 10	0n 6	19 12	2 3	20 47	0 5	13 27	0 58	21 59	0 9	21 47	0 29	10 44	1 46	5 14	14 16	23 17	23 16	14 42	8 12	2 4	
S 21	23 25	22 39	0n23	23 29	0 17	18 52	2 2	20 56	0 4	13 24	0 58	21 58	0 9	21 46	0 29	10 44	1 46	5 14	14 17	23 18	23 16	14 44	8 13	2 4	
M22	23 25	19 55	1 34	23 46	0 27	18 31	2 0	21 4	0 3	13 20	0 58	21 57	0 9	21 45	0 29	10 44	1 46	5 14	14 17	23 17	23 16	14 46	8 13	2 4	
T 23	23 25	16 6	2 40	24 0	0 37	18 10	1 58	21 12	0 3	13 17	0 58	21 56	0 9	21 45	0 29	10 44	1 46	5 14	14 17	23 17	23 16	14 48	8 14	2 5	
W24	23 24	11 26	3 39	24 12	0 47	17 48	1 55	21 21	0 2	13 13	0 58	21 55	0 9	21 44	0 29	10 43	1 46	5 14	14 17	23 17	23 17	14 51	8 14	2 5	
T 25	23 23	6 8	4 27	24 21	0 56	17 27	1 53	21 28	0 1	13 10	0 58	21 54	0 9	21 44	0 29	10 43	1 46	5 15	14 17	23 17	23 17	14 53	8 15	2 5	
F 26	23 21	0 29	5 0	24 27	1 4	17 4	1 51	21 36	0 1	13 6	0 58	21 53	0 9	21 43	0 29	10 43	1 46	5 15	14 17	23 17	23 17	14 55	8 15	2 5	
S 27	23 19	5n17	5 16	24 30	1 12	16 42	1 48	21 43	0n 0	13 3	0 58	21 52	0 8	21 42	0 29	10 43	1 46	5 15	14 17	23 17	23 17	14 57	8 16	2 5	
S 28	23 17	10 50	5 13	24 31	1 19	16 19	1 45	21 51	0 1	12 59	0 58	21 51	0 8	21 42	0 29	10 43	1 46	5 15	14 18	23 17	23 17	14 59	8 16	2 5	
M29	23 14	15 52	4 50	24 29	1 26	15 56	1 42	21 58	0 1	12 56	0 58	21 50	0 8	21 41	0 29	10 43	1 46	5 15	14 18	23 17	23 17	15 1	8 17	2 5	
T 30	23n11	20n 1	4n10	24n24	1n32	15n32	1n40	22n 4	0n 2	12n52	0n58	21n49	0s 8	21n40	0n29	10s43	1n46	5n15	14s18	23s17	23s17	15s 4	8n17	2n 5	

ASTRODIENST EPHEMERIS for the year 2122
geocentric

JULY 2122

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	18 35 17	9°58'15"	28°32'29"	14°51'15"	23°03'39"	11°12'25"	28°04'44"	19°59'59"	24°53'36"	2°R36	25°8'42"	5°53'56"	5°53'52"	27°40'40"	16°13'13"	W 1
T 2	18 39 14	9°58'30"	12°11'51"	16°23'23"	24°42'42"	12° 7' 7"	28°54'20"	20° 7' 7"	24°39'24"	2°M35	25°43'25"	5°57'57"	5°49'57"	27°47'27"	16°14'14"	T 2
F 3	18 43 10	10°55'45"	27° 4' 4"	18°29'29"	25°44'44"	12°50'50"	29° 5' 5"	20°14'14"	24°43'23"	2°35	25°44'25"	5°57'57"	5°46'46"	27°54'27"	16°15'15"	F 3
S 4	18 47 7	11°52'59"	11°52'59"	20°33'33"	26°47'47"	13°32'32"	29°15'15"	20°22'22"	24°46'24"	2°35	25°45'25"	5°R57	5°43'43"	28° 0' 0"	16°16'16"	S 4
S 5	18 51 3	12°50'13"	24°49'49"	22°36'36"	27°49'49"	14°14'14"	29°26'26"	20°30'30"	24°50'24"	2°34	25°46'25"	5°57'57"	5°40'40"	28° 7' 7"	16°17'17"	S 5
M 6	18 55 0	13°47'28"	8°01'15"	24°37'37"	28°51'51"	14°56'56"	29°37'37"	20°38'38"	24°54'24"	2°34	25°47'25"	5°56'56"	5°37'37"	28°14'14"	16°17'17"	M 6
T 7	18 58 56	14°44'41"	21°20'20"	26°36'36"	29°53'53"	15°37'37"	29°47'47"	20°45'45"	24°57'24"	2°34	25°47'25"	5°55'55"	5°33'33"	28°21'21"	16°18'18"	T 7
W 8	19 2 53	15°41'55"	4°06'54"	28°34'34"	0°06'54"	16°19'19"	29°58'58"	20°53'53"	25° 1' 1"	2°34	25°48'25"	5°54'54"	5°30'30"	28°27'27"	16°19'19"	W 8
T 9	19 6 50	16°39'09"	16°34'34"	0°02'29"	1°55'55"	17° 1' 1"	0°06'54"	21° 1' 1"	25° 4' 4"	2°33	25°49'25"	5°53'53"	5°27'27"	28°34'34"	16°19'19"	T 9
F 10	19 10 46	17°36'22"	28°48'48"	2°23'23"	2°55'55"	17°43'43"	0°20'20"	21° 9' 9"	25° 8' 8"	2°33	25°50'25"	5°52'52"	5°24'24"	28°41'41"	16°20'20"	F 10
S 11	19 14 43	18°33'35"	10°45'50"	4°14'14"	3°56'56"	18°24'24"	0°32'32"	21°16'16"	25°12'12"	2°33	25°51'25"	5°51'51"	5°21'21"	28°47'47"	16°20'20"	S 11
S 12	19 18 39	19°30'48"	22°45'45"	6° 4' 4"	4°56'56"	19° 6' 6"	0°43'43"	21°24'24"	25°15'15"	2°33	25°52'25"	5°D51	5°18'18"	28°54'54"	16°21'21"	S 12
M13	19 22 36	20°28'01"	4°01'38"	7°51'51"	5°55'55"	19°47'47"	0°54'54"	21°32'32"	25°19'19"	2°33	25°53'25"	5°51'51"	5°14'14"	29° 1' 1"	16°21'21"	M13
T 14	19 26 32	21°25'14"	16°33'33"	9°37'37"	6°54'54"	20°29'29"	1° 5' 5"	21°40'40"	25°23'23"	2°D33	25°54'25"	5°52'52"	5°11'11"	29° 8' 8"	16°21'21"	T 14
W15	19 30 29	22°22'27"	28°34'34"	11°21'21"	7°53'53"	21°10'10"	1°17'17"	21°48'48"	25°26'26"	2°33	25°55'25"	5°54'54"	5° 8' 8"	29°14'14"	16°22'22"	W15
T 16	19 34 25	23°19'40"	10°47'47"	13° 3' 3"	8°52'52"	21°52'52"	1°28'28"	21°55'55"	25°30'30"	2°33	25°55'25"	5°55'55"	5° 5' 5"	29°21'21"	16°22'22"	T 16
F 17	19 38 22	24°16'53"	23°14'14"	14°42'42"	9°50'50"	22°33'33"	1°40'40"	22° 3' 3"	25°34'34"	2°33	25°56'25"	5°56'56"	5° 2' 2"	29°28'28"	16°22'22"	F 17
S 18	19 42 19	25°14'06"	5°53'57"	16°20'20"	10°47'47"	23°14'14"	1°51'51"	22°11'11"	25°37'37"	2°33	25°57'25"	5°R56	4°58'58"	29°34'34"	16°22'22"	S 18
S 19	19 46 15	26°11'20"	18°58'58"	17°56'56"	11°44'44"	23°55'55"	2° 3' 3"	22°19'19"	25°41'41"	2°33	25°58'25"	5°56'56"	4°55'55"	29°41'41"	16°22'22"	S 19
M20	19 50 12	27° 8'34"	2°41'37"	19°30'30"	12°41'41"	24°36'36"	2°15'15"	22°27'27"	25°45'45"	2°33	25°58'25"	5°54'54"	4°52'52"	29°48'48"	16°R22	M20
T 21	19 54 8	28° 5'48"	15°53'53"	21° 2' 2"	13°37'37"	25°17'17"	2°26'26"	22°34'34"	25°48'48"	2°34	25°59'25"	5°52'52"	4°49'49"	29°55'55"	16°22'22"	T 21
W22	19 58 5	29° 3'03"	29°43'43"	22°31'31"	14°33'33"	25°58'58"	2°38'38"	22°42'42"	25°52'52"	2°34	26° 0' 0"	5°49'49"	4°46'46"	0°01'01"	16°22'22"	W22
T 23	20 2 1	0°01'18"	13°45'45"	23°59'59"	15°28'28"	26°39'39"	2°50'50"	22°50'50"	25°56'56"	2°34	26° 1' 1"	5°46'46"	4°43'43"	0° 8' 8"	16°22'22"	T 23
F 24	20 5 58	0°57'34"	27°55'55"	25°25'25"	16°23'23"	27°20'20"	3° 2' 2"	22°58'58"	25°59'59"	2°34	26° 1' 1"	5°43'43"	4°39'39"	0°15'15"	16°22'22"	F 24
S 25	20 9 54	1°54'51"	12°07'07"	26°49'49"	17°17'17"	28° 1' 1"	3°14'14"	23° 5' 5"	26° 3' 3"	2°35	26° 2' 2"	5°40'40"	4°36'36"	0°21'21"	16°22'22"	S 25
S 26	20 13 51	2°52'08"	26°23'23"	28°11'11"	18°11'11"	28°42'42"	3°26'26"	23°13'13"	26° 7' 7"	2°35	26° 3' 3"	5°39'39"	4°33'33"	0°28'28"	16°21'21"	S 26
M27	20 17 48	3°49'27"	10°36'36"	29°30'30"	19° 4' 4"	29°22'22"	3°38'38"	23°21'21"	26°10'10"	2°35	26° 3' 3"	5°D39	4°30'30"	0°35'35"	16°21'21"	M27
T 28	20 21 44	4°46'47"	24°45'45"	0°06'48"	19°57'57"	0°53'53"	3°50'50"	23°28'28"	26°14'14"	2°36	26° 4' 4"	5°40'40"	4°27'27"	0°41'41"	16°21'21"	T 28
W29	20 25 41	5°44'07"	8°11'48"	2° 3' 3"	20°49'49"	0°44'44"	4° 2' 2"	23°36'36"	26°18'18"	2°36	26° 4' 4"	5°42'42"	4°24'24"	0°48'48"	16°20'20"	W29
T 30	20 29 37	6°41'29"	22°44'44"	3°16'16"	21°40'40"	1°24'24"	4°14'14"	23°44'44"	26°21'21"	2°37	26° 5' 5"	5°43'43"	4°20'20"	0°55'55"	16°20'20"	T 30
F 31	20 33 34	7°03'38'51"	6°53'30"	4°06'26"	22°06'31"	2°54'44"	4°06'27"	23°55'51"	26°25'25"	2°M37	26°8' 6"	5°R43	4°17'17"	1°01'01"	16°19'19"	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
W 1	23n 7	22n57	3n13	24n16	1n37	15n 9	1n36	22n11	0n 3	12n48	0n57	21n48	0s 8	21n40	0n29	10s43	1n46	5n15	14s18	23s17	23s18	15s 6	8n18	2n 5					
T 2	23 3	24 23	2 5	24 6	1 41	14 45	1 33	22 17	0 4	12 45	0 57	21 47	0 8	21 39	0 29	10 42	1 46	5 15	14 18	23 17	23 18	15 8	8 18	2 5					
F 3	22 58	24 13	0 49	23 53	1 45	14 20	1 30	22 23	0 4	12 41	0 57	21 46	0 8	21 39	0 29	10 42	1 46	5 15	14 19	23 17	23 18	15 10	8 18	2 5					
S 4	22 54	22 29	0s28	23 38	1 48	13 56	1 26	22 29	0 5	12 37	0 57	21 45	0 8	21 38	0 29	10 42	1 46	5 15	14 19	23 17	23 18	15 12	8 19	2 5					
S 5	22 48	19 28	1 43	23 20	1 50	13 31	1 23	22 35	0 6	12 33	0 57	21 44	0 8	21 37	0 29	10 42	1 46	5 15	14 19	23 17	23 18	15 14	8 19	2 5					
M 6	22 43	15 28	2 49	23 1	1 52	13 6	1 19	22 41	0 6	12 30	0 57	21 43	0 8	21 37	0 29	10 42	1 45	5 15	14 19	23 17	23 18	15 16	8 20	2 5					
T 7	22 37	10 49	3 46	22 39	1 52	12 41	1 15	22 46	0 7	12 26	0 57	21 42	0 8	21 36	0 29	10 42	1 45	5 15	14 19	23 17	23 18	15 18	8 20	2 5					
W 8	22 30	5 49	4 29	22 16	1 52	12 15	1 11	22 51	0 8	12 22	0 57	21 41	0 7	21 35	0 29	10 42	1 45	5 15	14 19	23 18	23 19	15 21	8 20	2 5					
T 9	22 23	0 43	4 59	21 51	1 52	11 49	1 7	22 56	0 8	12 18	0 57	21 40	0 7	21 35	0 29	10 42	1 45	5 15	14 20	23 18	23 19	15 23	8 20	2 5					
F 10	22 16	4s19	5 14	21 24	1 50	11 24	1 2	23 0	0 9	12 14	0 57	21 39	0 7	21 34	0 29	10 42	1 45	5 15	14 20	23 18	23 19	15 25	8 21	2 5					
S 11	22 8	9 7	5 15	20 56	1 48	10 58	0 58	23 5	0 10	12 10	0 57	21 37	0 7	21 33	0 29	10 42	1 45	5 15	14 20	23 18	23 19	15 27	8 21	2 5					
S 12	22 0	13 31	5 3	20 27	1 46	10 31	0 53	23 9	0 11	12 6	0 57	21 36	0 7	21 33	0 29	10 42	1 45	5 15	14 20	23 18	23 19	15 29	8 21	2 5					
M13	21 52	17 24	4 37	19 56	1 42	10 5	0 48	23 13	0 11	12 2	0 57	21 35	0 7	21 32	0 29	10 42	1 45	5 15	14 20	23 18	23 19	15 31	8 21	2 5					
T 14	21 43	20 36	4 0	19 25	1 39	9 39	0 43	23 17	0 12	11 58	0 57	21 34	0 7	21 31	0 29	10 42	1 45	5 15	14 21	23 18	23 19	15 33	8 21	2 5					
W15	21 34	22 57	3 12	18 52	1 34	9 12	0 38	23 20	0 13	11 54	0 57	21 33	0 7	21 31	0 29	10 42	1 45	5 15	14 21	23 18	23 19	15 35	8 22	2 5					
T 16	21 25	24 16	2 14	18 19	1 29	8 45	0 33	23 24	0 13	11 50	0 57	21 32	0 7	21 30	0 29	10 42	1 45	5 15	14 21	23 17	23 20	15 37	8 22	2 6					
F 17	21 15	24 25	1 10	17 45	1 24	8 19	0 28	23 27	0 14	11 46	0 57	21 31	0 7	21 29	0 29	10 42	1 45	5 15	14 21	23 17	23 20	15 39	8 22	2 6					
S 18	21 4	23 17	0n 0	17 10	1 18	7 52	0 22	23 30	0 15	11 41	0 57	21 29	0 7	21 29	0 29	10 43	1 45	5 15	14 22	23 17	23 20	15 41	8 22	2 6					
S 19	20 54	20 55	1 11	16 35	1 12	7 25	0 17	23 33	0 16	11 37	0 57	21 28	0 7	21 28	0 29	10 43	1 45	5 15	14 22	23 17	23 20	15 43	8 22	2 6					
M20	20 43	17 22	2 20	16 0	1 5	6 58	0 11	23 35	0 16	11 33	0 57	21 27	0 6	21 27	0 29	10 43	1 45	5 15	14 22	23 18	23 20	15 45	8 22	2 6					
T 21	20 32	12 51	3 22	15 24	0 58	6 31	0 5	23 37	0 17	11 29	0 57	21 26	0 6	21 27	0 29	10 43	1 45	5 15	14 22	23 18	23 20	15 47	8 22	2 6					
W22	20 20	7 36	4 14	14 47	0 50	6 4	0s 1	23 39	0 18	11 24	0 57	21 25	0 6	21 26	0 29	10 43	1 45	5 15	14 22	23 18	23 20	15 50	8 22	2 6					
T 23	20 8	1 54	4 51	14 11	0 42	5 37	0 7	23 41	0 18	11 20	0 57	21 23	0 6	21 25	0 29	10 43	1 45	5 15	14 23	23 18	23 20	15 52	8 22	2 6					
F 24	19 56	3n55	5 11	13 34	0 34	5 9	0 14	23 43	0 19	11 16	0 57	21 22	0 6	21 25	0 29	10 43	1 44	5 15	14 23	23 18	23 20	15 54	8 22	2 6					
S 25	19 43	9 34	5 12	12 58	0 25	4 42	0 20	23 44	0 20	11 12	0 56	21 21	0 6	21 24	0 29	10 43	1 44	5 15	14 23	23 18	23 21	15 56	8 22	2 6					
S 26	19 30	14 44	4 53	12 21	0 16	4 15	0 27	23 46	0 21	11 7	0 56	21 20	0 6	21 23	0 29	10 44	1 44	5 14	14 23	23 18	23 21	15 58	8 22	2 6					
M27	19 17	19 4	4 17	11 44	0 7	3 48	0 34	23 47	0 21	11 3	0 56	21 19	0 6	21 23	0 29	10 44	1 44	5 14	14 24	23 18	23 21	16 0	8 22	2 6					
T 28	19 3	22 16	3 26	11 8	0s 3	3 21	0 41	23 47	0 22	10 58	0 56	21 17	0 6	21 22	0 29	10 44	1 44	5 14	14 24	23 18	23 21	16 2	8 22	2 6					
W29	18 50	24 6	2 22	10 32	0 13	2 54	0 48	23 48	0 23	10 54	0 56	21 16	0 6	21 21	0 29	10 44	1 44	5 14	14 24	23 18	23 21	16 4	8 22	2 6					
T 30	18 35	24 24	1 11	9 56	0 23	2 27	0 55	23 48	0 23	10 49	0 56	21 15	0 6	21 21	0 29	10 44	1 44	5 14	14 24	23 18	23 21	16 6	8 21	2 6					
F 31	18n21	23n12	0s 4	9n21	0s34	2n 1	1s 3	23n49	0n24	10n45	0n56	21n14	0s 6	21n20	0n29	10s45	1n44	5n14	14s25	23s18	23s21	16s 8	8n21	2n 6					

ASTRODIENST EPHEMERIS for the year 2122

geocentric

AUGUST 2122

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 37 30	8♌36°15	20♋6	5♊34	23♊21	2♋45	4♊39	23♋59	26♋28	2♌38	26♌6	5♍R43	4♎14	1♎8	16♍R18	S 1
S 2	20 41 27	9°33'39	3♌29	6°40	24°10	3°25	4°51	24°7	26°32	2°38	26°7	5♎40	4°11	1°15	16♎18	S 2
M 3	20 45 23	10°31'04	16°38	7°43	24°59	4°5	5°4	24°14	26°36	2°39	26°7	5°36	4°8	1°22	16°17	M 3
T 4	20 49 20	11°28'30	29°32	8°43	25°47	4°46	5°16	24°22	26°39	2°40	26°8	5°31	4°4	1°28	16°16	T 4
W 5	20 53 17	12°25'56	12♊11	9°41	26°34	5°26	5°29	24°29	26°43	2°40	26°8	5°25	4°1	1°35	16°15	W 5
T 6	20 57 13	13°23'23	24°35	10°35	27°20	6°6	5°41	24°37	26°46	2°41	26°8	5°18	3°58	1°42	16°15	T 6
F 7	21 1 10	14°20'51	6♋46	11°27	28°5	6°46	5°54	24°44	26°50	2°42	26°9	5°12	3°55	1°49	16°14	F 7
S 8	21 5 6	15°18'20	18°47	12°15	28°50	7°26	6°6	24°52	26°53	2°42	26°9	5°8	3°52	1°55	16°13	S 8
S 9	21 9 3	16°15'50	0♌41	13°0	29°34	8°6	6°19	24°59	26°57	2°43	26°10	5°4	3°49	2°2	16°12	S 9
M10	21 12 59	17°13'20	12°32	13°41	0♌16	8°46	6°31	25°7	27°0	2°44	26°10	5°D 3	3°45	2°9	16°11	M10
T 11	21 16 56	18°10'51	24°26	14°19	0°58	9°25	6°44	25°14	27°4	2°45	26°10	5°3	3°42	2°15	16°10	T 11
W12	21 20 52	19°8'23	6♊28	14°53	1°39	10°5	6°57	25°22	27°7	2°46	26°11	5°4	3°39	2°22	16°8	W12
T 13	21 24 49	20°5'56	18°41	15°22	2°19	10°45	7°9	25°29	27°11	2°47	26°11	5°6	3°36	2°29	16°7	T 13
F 14	21 28 46	21°3'29	1♌11	15°47	2°57	11°24	7°22	25°36	27°14	2°48	26°11	5°R 7	3°33	2°36	16°6	F 14
S 15	21 32 42	22°1'04	14°2	16°8	3°34	12°4	7°35	25°43	27°18	2°49	26°11	5°6	3°30	2°42	16°5	S 15
S 16	21 36 39	22°58'40	27°16	16°23	4°11	12°43	7°48	25°51	27°21	2°50	26°12	5°4	3°26	2°49	16°3	S 16
M17	21 40 35	23°56'16	10♋53	16°34	4°46	13°22	8°0	25°58	27°24	2°51	26°12	5°0	3°23	2°56	16°2	M17
T 18	21 44 32	24°53'54	24°52	16°40	5°19	14°2	8°13	26°5	27°28	2°52	26°12	4°54	3°20	3°2	16°0	T 18
W19	21 48 28	25°51'33	9♊10	16°R40	5°52	14°41	8°26	26°12	27°31	2°53	26°12	4°46	3°17	3°9	15°59	W19
T 20	21 52 25	26°49'13	23°40	16°35	6°23	15°20	8°39	26°19	27°34	2°54	26°12	4°38	3°14	3°16	15°57	T 20
F 21	21 56 21	27°46'55	8♎15	16°24	6°52	15°59	8°52	26°26	27°38	2°55	26°12	4°31	3°10	3°22	15°56	F 21
S 22	22 0 18	28°44'38	22°50	16°7	7°20	16°38	9°5	26°33	27°41	2°56	26°12	4°25	3°7	3°29	15°54	S 22
S 23	22 4 15	29°42'23	7♋18	15°44	7°46	17°17	9°18	26°40	27°44	2°58	26°13	4°20	3°4	3°36	15°52	S 23
M24	22 8 11	0♎40'10	21°35	15°16	8°11	17°56	9°31	26°47	27°47	2°59	26°13	4°18	3°1	3°43	15°51	M24
T 25	22 12 8	1°37'58	5♊19	14°43	8°35	18°35	9°43	26°54	27°51	3°0	26°13	4°D18	2°58	3°49	15°49	T 25
W26	22 16 4	2°35'48	19°30	14°4	8°56	19°14	9°56	27°1	27°54	3°1	26°R13	4°19	2°55	3°56	15°47	W26
T 27	22 20 1	3°33'40	3♋7	13°21	9°16	19°53	10°9	27°8	27°57	3°3	26°13	4°R19	2°51	4°3	15°45	T 27
F 28	22 23 57	4°31'34	16°31	12°34	9°34	20°32	10°22	27°15	28°0	3°4	26°13	4°19	2°48	4°9	15°44	F 28
S 29	22 27 54	5°29'29	29°43	11°43	9°50	21°10	10°35	27°21	28°3	3°5	26°13	4°16	2°45	4°16	15°42	S 29
S 30	22 31 50	6°27'26	12♌44	10°49	10°4	21°49	10°48	27°28	28°6	3°7	26°13	4°11	2°42	4°23	15°40	S 30
M31	22 35 47	7♎25'24	25♌33	9♎54	10♌16	22♋27	11♎1	27♋35	28♋9	3♌8	26♌12	4♎3	2♎39	4♌29	15♎38	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	decl	lat
S 1	18n 6	20n38	1s18	8n46	0s45	1n34	1s10	23n49	0n25	10n40	0n56	21n12	0s 5	21n19	0n29	10s45	1n44	5n14	14s25	23s18	23s21	16s10	8n21	2n 6			
S 2	17 51	17 0	2 26	8 12	0 56	1 7	1 18	23 48	0 26	10 36	0 56	21 11	0 5	21 19	0 29	10 45	1 44	5 14	14 25	23 18	23 21	16 12	8 21	2 6			
M 3	17 35	12 35	3 24	7 38	1 7	0 41	1 26	23 48	0 26	10 31	0 56	21 10	0 5	21 18	0 29	10 45	1 44	5 13	14 25	23 18	23 22	16 14	8 21	2 6			
T 4	17 20	7 42	4 11	7 5	1 18	0 15	1 34	23 47	0 27	10 27	0 56	21 9	0 5	21 17	0 29	10 46	1 44	5 13	14 26	23 19	23 22	16 16	8 20	2 6			
W 5	17 4	2 36	4 45	6 33	1 30	0s12	1 42	23 46	0 28	10 22	0 56	21 7	0 5	21 17	0 29	10 46	1 44	5 13	14 26	23 19	23 22	16 18	8 20	2 6			
T 6	16 47	2s31	5 5	6 2	1 41	0 38	1 50	23 45	0 28	10 18	0 56	21 6	0 5	21 16	0 29	10 46	1 44	5 13	14 26	23 19	23 22	16 20	8 20	2 6			
F 7	16 31	7 25	5 10	5 32	1 53	1 3	1 59	23 44	0 29	10 13	0 56	21 5	0 5	21 15	0 29	10 47	1 44	5 13	14 26	23 19	23 22	16 22	8 19	2 6			
S 8	16 14	12 0	5 1	5 3	2 4	1 29	2 7	23 43	0 30	10 8	0 56	21 4	0 5	21 15	0 29	10 47	1 44	5 13	14 27	23 19	23 22	16 24	8 19	2 6			
S 9	15 57	16 4	4 40	4 35	2 16	1 54	2 16	23 41	0 31	10 4	0 56	21 2	0 5	21 14	0 29	10 47	1 44	5 12	14 27	23 20	23 22	16 26	8 19	2 6			
M10	15 40	19 30	4 6	4 8	2 28	2 20	2 25	23 39	0 31	9 59	0 56	21 1	0 5	21 13	0 29	10 47	1 44	5 12	14 27	23 20	23 22	16 27	8 18	2 7			
T 11	15 22	22 8	3 22	3 43	2 40	2 44	2 34	23 37	0 32	9 54	0 56	21 0	0 5	21 13	0 29	10 48	1 43	5 12	14 28	23 20	23 22	16 29	8 18	2 7			
W12	15 4	23 49	2 29	3 19	2 51	3 9	2 43	23 35	0 33	9 50	0 56	20 59	0 4	21 12	0 29	10 48	1 43	5 12	14 28	23 20	23 22	16 31	8 17	2 7			
T 13	14 46	24 24	1 28	2 57	3 3	3 33	2 53	23 33	0 34	9 45	0 56	20 57	0 4	21 11	0 29	10 49	1 43	5 12	14 28	23 20	23 22	16 33	8 17	2 7			
F 14	14 28	23 46	0 21	2 37	3 14	3 57	3 2	23 30	0 34	9 40	0 56	20 56	0 4	21 11	0 29	10 49	1 43	5 11	14 28	23 19	23 23	16 35	8 17	2 7			
S 15	14 10	21 53	0n48	2 19	3 25	4 21	3 12	23 27	0 35	9 36	0 56	20 55	0 4	21 10	0 29	10 49	1 43	5 11	14 29	23 20	23 23	16 37	8 16	2 7			
S 16	13 51	18 47	1 57	2 4	3 35	4 44	3 21	23 24	0 36	9 31	0 56	20 54	0 4	21 9	0 29	10 50	1 43	5 11	14 29	23 20	23 23	16 39	8 16	2 7			
M17	13 32	14 36	3 0	1 50	3 45	5 7	3 31	23 21	0 36	9 26	0 56	20 52	0 4	21 9	0 29	10 50	1 43	5 11	14 29	23 20	23 23	16 41	8 15	2 7			
T 18	13 13	9 32	3 55	1 39	3 55	5 30	3 41	23 18	0 37	9 21	0 56	20 51	0 4	21 8	0 29	10 50	1 43	5 11	14 29	23 20	23 23	16 43	8 15	2 7			
W19	12 53	3 51	4 36	1 31	4 4	5 52	3 51	23 15	0 38	9 16	0 56	20 50	0 4	21 7	0 29	10 51	1 43	5 10	14 30	23 20	23 23	16 45	8 14	2 7			
T 20	12 34	2n 5	5 0	1 25	4 12	6 13	4 1	23 11	0 39	9 12	0 56	20 49	0 4	21 7	0 29	10 51	1 43	5 10	14 30	23 21	23 23	16 47	8 13	2 7			
F 21	12 14	7 57	5 5	1 23	4 20	6 34	4 11	23 7	0 39	9 7	0 56	20 47	0 4	21 6	0 29	10 52	1 43	5 10	14 30	23 21	23 23	16 49	8 13	2 7			
S 22	11 54	13 22	4 50	1 23	4 26	6 55	4 22	23 3	0 40	9 2	0 56	20 46	0 4	21 6	0 29	10 52	1 43	5 10	14 31	23 21	23 23	16 51	8 12	2 7			
S 23	11 34	17 59	4 17	1 27	4 31	7 15	4 32	22 59	0 41	8 57	0 56	20 45	0 4	21 5	0 29	10 53	1 43	5 9	14 31	23 21	23 23	16 52	8 12	2 7			
M24	11 14	21 30	3 28	1 34	4 35	7 35	4 43	22 54	0 42	8 52	0 57	20 44	0 3	21 4	0 29	10 53	1 43	5 9	14 31	23 21	23 23	16 54	8 11	2 7			
T 25	10 53	23 39	2 27	1 44	4 38	7 53	4 53	22 50	0 42	8 47	0 57	20 42	0 3	21 4	0 29	10 54	1 43	5 9	14 31	23 21	23 23	16 56	8 10	2 7			
W26	10 33	24 19	1 18	1 58	4 39	8 12	5 4	22 45	0 43	8 43	0 57	20 41	0 3	21 3	0 30	10 54	1 43	5 9	14 32	23 21	23 23	16 58	8 10	2 7			
T 27	10 12	23 30	0 6	2 15	4 38	8 29	5 15	22 40	0 44	8 38	0 57	20 40	0 3	21 2	0 30	10 55	1 43	5 8	14 32	23 21	23 24	17 0	8 9	2 7			
F 28	9 51	21 20	1s 5	2 35	4 36	8 46	5 25	22 35	0 44	8 33	0 57	20 39	0 3	21 2	0 30	10 55	1 43	5 8	14 32	23 21	23 24	17 2	8 8	2 7			
S 29	9 30	18 3	2 11	2 59	4 32	9 2	5 36	22 30	0 45	8 28	0 57	20 38	0 3	21 1	0 30	10 56	1 43	5 8	14 32	23 21	23 24	17 4	8 7	2 7			
S 30	9 8	13 57	3 10	3 24	4 25	9 18	5 47	22 25	0 46	8 23	0 57	20 36	0 3	21 1	0 30	10 56	1 43	5 8	14 33	23 21	23 24	17 6	8 7	2 7			
M31	8n47	9n16	3s58	3n53	4s17	9s32	5s57	22n19	0n47	8n18	0n57	20n35	0s 3	21n 0	0n30	10s57	1n43	5n 7	14s33	23s22	23s24	17s 7	8n 6	2n 6			

ASTRODIENST EPHEMERIS for the year 2122

geocentric

SEPTEMBER 2122

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 39 44	8 ^h 23'25"	8 ^h 11'	8°R58	10 ^h 26'	23 ^h 56'	11 ^h 14'	27 ^h 41'	28 ^h 12'	3 ^h 10'	26°R12	3°R52	2 ^h 35'	4 ^h 36'	15°R36	T 1
W 2	22 43 40	9°21'26"	20°38'	8 ^h 3'	10°34'	23°44'	11°27'	27°48'	28°15'	3°11'	26°R12	3°R41	2°32'	4°43'	15°Y34	W 2
T 3	22 47 37	10°19'29"	2 ^h 54'	7°10'	10°39'	24°22'	11°40'	27°54'	28°18'	3°13'	26°12'	3°29'	2°29'	4°50'	15°31'	T 3
F 4	22 51 33	11°17'34"	14°59'	6°19'	10°43'	25°1'	11°53'	28°1'	28°21'	3°14'	26°12'	3°17'	2°26'	4°56'	15°29'	F 4
S 5	22 55 30	12°15'40"	26°56'	5°33'	10°R44	25°39'	12°6'	28°7'	28°24'	3°16'	26°12'	3°7'	2°23'	5°3'	15°27'	S 5
S 6	22 59 26	13°13'48"	8 ^h 48'	4°52'	10°43'	26°17'	12°19'	28°13'	28°27'	3°17'	26°11'	3°0'	2°20'	5°10'	15°25'	S 6
M 7	23 3 23	14°11'58"	20°37'	4°17'	10°39'	26°55'	12°33'	28°19'	28°30'	3°19'	26°11'	2°55'	2°16'	5°16'	15°23'	M 7
T 8	23 7 19	15°10'08"	2 ^h 28'	3°49'	10°34'	27°33'	12°46'	28°26'	28°33'	3°20'	26°11'	2°52'	2°13'	5°23'	15°20'	T 8
W 9	23 11 16	16°8'21"	14°27'	3°29'	10°25'	28°11'	12°59'	28°32'	28°35'	3°22'	26°11'	2°D52	2°10'	5°30'	15°18'	W 9
T 10	23 15 12	17°6'34"	26°38'	3°18'	10°15'	28°48'	13°12'	28°38'	28°38'	3°24'	26°10'	2°R52	2°7'	5°36'	15°16'	T 10
F 11	23 19 9	18°4'50"	9 ^h 37'	3°D15	10°2'	29°26'	13°25'	28°44'	28°41'	3°25'	26°10'	2°52'	2°4'	5°43'	15°13'	F 11
S 12	23 23 6	19°3'06"	21°58'	3°20'	9°46'	0 ^h 4'	13°38'	28°50'	28°43'	3°27'	26°10'	2°51'	2°1'	5°50'	15°11'	S 12
S 13	23 27 2	20°1'24"	5 ^h 15'	3°35'	9°28'	0°41'	13°51'	28°56'	28°46'	3°29'	26°9'	2°47'	1°57'	5°57'	15°9'	S 13
M14	23 30 59	20°59'44"	19°1'	3°59'	9°8'	1°19'	14°4'	29°1'	28°49'	3°31'	26°9'	2°41'	1°54'	6°3'	15°6'	M14
T 15	23 34 55	21°58'06"	3 ^h 14'	4°32'	8°46'	1°56'	14°17'	29°7'	28°51'	3°32'	26°9'	2°33'	1°51'	6°10'	15°4'	T 15
W16	23 38 52	22°56'29"	17°50'	5°14'	8°22'	2°34'	14°29'	29°13'	28°54'	3°34'	26°8'	2°22'	1°48'	6°17'	15°1'	W16
T 17	23 42 48	23°54'53"	2 ^h 43'	6°3'	7°55'	3°11'	14°42'	29°18'	28°56'	3°36'	26°8'	2°11'	1°45'	6°23'	14°59'	T 17
F 18	23 46 45	24°53'20"	17°44'	7°0'	7°27'	3°48'	14°55'	29°24'	28°59'	3°38'	26°7'	2°0'	1°41'	6°30'	14°56'	F 18
S 19	23 50 41	25°51'49"	2 ^h 43'	8°5'	6°57'	4°25'	15°8'	29°29'	29°1'	3°40'	26°7'	1°51'	1°38'	6°37'	14°54'	S 19
S 20	23 54 38	26°50'20"	17°30'	9°16'	6°25'	5°2'	15°21'	29°35'	29°3'	3°41'	26°6'	1°45'	1°35'	6°43'	14°51'	S 20
M21	23 58 35	27°48'53"	2 ^h 11'	10°34'	5°52'	5°39'	15°34'	29°40'	29°6'	3°43'	26°6'	1°41'	1°32'	6°50'	14°49'	M21
T 22	0 2 31	28°47'29"	16°12'	11°57'	5°18'	6°16'	15°47'	29°45'	29°8'	3°45'	26°5'	1°39'	1°29'	6°57'	14°46'	T 22
W23	0 6 28	29°46'06"	0 ^h 52'	13°25'	4°42'	6°53'	16°0'	29°50'	29°10'	3°47'	26°5'	1°39'	1°26'	7°4'	14°43'	W23
T 24	0 10 24	0 ^h 44'46"	13°31'	14°57'	4°6'	7°30'	16°13'	29°56'	29°12'	3°49'	26°4'	1°39'	1°22'	7°10'	14°41'	T 24
F 25	0 14 21	1°43'28"	26°43'	16°32'	3°30'	8°7'	16°25'	0 ^h 1'	29°14'	3°51'	26°4'	1°37'	1°19'	7°17'	14°38'	F 25
S 26	0 18 17	2°42'13"	9 ^h 39'	18°11'	2°53'	8°43'	16°38'	0°5'	29°16'	3°53'	26°3'	1°34'	1°16'	7°24'	14°35'	S 26
S 27	0 22 14	3°40'59"	22°22'	19°52'	2°16'	9°20'	16°51'	0°10'	29°19'	3°55'	26°3'	1°27'	1°13'	7°30'	14°33'	S 27
M28	0 26 10	4°39'48"	4 ^h 54'	21°36'	1°39'	9°56'	17°4'	0°15'	29°21'	3°57'	26°2'	1°18'	1°10'	7°37'	14°30'	M28
T 29	0 30 7	5°38'38"	17°16'	23°21'	1°3'	10°33'	17°16'	0°20'	29°22'	3°59'	26°1'	1°6'	1°7'	7°44'	14°27'	T 29
W30	0 34 4	6 ^h 37'31"	29 ^h 30'	25 ^h 7'	0 ^h 27'	11 ^h 9'	17 ^h 29'	0 ^h 24'	29°24'	4 ^h 1'	26°1'	0 ^h 52'	1 ^h 3'	7 ^h 50'	14°Y24	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	8n25	4n16	4s33	4n23	4s 7	9s46	6s 8	22n14	0n47	8n13	0n57	20n34	0s 3	20n59	0n30	10s57	1n42	5n 7	14s33	23s22	23s24	17s 9	8n 5	2n 7			
W 2	8 3	0s48	4 54	4 54	3 56	9 59	6 19	22 8	0 48	8 8	0 57	20 33	0 3	20 59	0 30	10 58	1 42	5 7	14 34	23 22	23 24	17 11	8 4	2 7			
T 3	7 41	5 46	5 2	5 26	3 42	10 10	6 29	22 2	0 49	8 3	0 57	20 31	0 3	20 58	0 30	10 58	1 42	5 6	14 34	23 23	23 24	17 13	8 4	2 7			
F 4	7 20	10 27	4 56	5 59	3 27	10 21	6 39	21 56	0 50	7 58	0 57	20 30	0 3	20 58	0 30	10 59	1 42	5 6	14 34	23 23	23 24	17 15	8 3	2 7			
S 5	6 57	14 40	4 37	6 31	3 11	10 31	6 49	21 50	0 50	7 54	0 57	20 29	0 2	20 57	0 30	10 59	1 42	5 6	14 34	23 23	23 24	17 17	8 2	2 7			
S 6	6 35	18 18	4 6	7 2	2 53	10 40	6 59	21 43	0 51	7 49	0 57	20 28	0 2	20 57	0 30	11 0	1 42	5 5	14 35	23 23	23 24	17 18	8 1	2 7			
M 7	6 13	21 11	3 24	7 31	2 35	10 47	7 9	21 37	0 52	7 44	0 57	20 27	0 2	20 56	0 30	11 1	1 42	5 5	14 35	23 23	23 24	17 20	8 0	2 7			
T 8	5 50	23 9	2 34	7 59	2 16	10 54	7 19	21 30	0 53	7 39	0 57	20 26	0 2	20 56	0 30	11 1	1 42	5 5	14 35	23 24	23 24	17 22	7 59	2 7			
W 9	5 28	24 7	1 36	8 24	1 57	10 59	7 28	21 23	0 53	7 34	0 57	20 24	0 2	20 55	0 30	11 2	1 42	5 5	14 35	23 24	23 24	17 24	7 58	2 7			
T 10	5 5	23 56	0 33	8 46	1 38	11 3	7 36	21 16	0 54	7 29	0 57	20 23	0 2	20 54	0 30	11 2	1 42	5 4	14 36	23 24	23 24	17 26	7 57	2 7			
F 11	4 43	22 34	0n33	9 5	1 18	11 5	7 45	21 9	0 55	7 24	0 57	20 22	0 2	20 54	0 30	11 3	1 42	5 4	14 36	23 24	23 24	17 28	7 56	2 7			
S 12	4 20	20 0	1 39	9 21	1 0	11 6	7 53	21 2	0 56	7 19	0 57	20 21	0 2	20 53	0 30	11 3	1 42	5 4	14 36	23 24	23 24	17 29	7 56	2 7			
S 13	3 57	16 19	2 43	9 33	0 41	11 6	8 0	20 54	0 56	7 14	0 57	20 20	0 2	20 53	0 30	11 4	1 42	5 3	14 36	23 24	23 25	17 31	7 55	2 7			
M14	3 34	11 39	3 38	9 40	0 24	11 4	8 7	20 47	0 57	7 9	0 57	20 19	0 2	20 52	0 30	11 5	1 42	5 3	14 37	23 24	23 25	17 33	7 54	2 7			
T 15	3 11	6 14	4 23	9 44	0 7	11 1	8 13	20 39	0 58	7 4	0 58	20 18	0 2	20 52	0 30	11 5	1 42	5 3	14 37	23 24	23 25	17 35	7 53	2 7			
W16	2 48	0 20	4 51	9 44	0n9	10 57	8 19	20 32	0 59	6 59	0 58	20 17	0 1	20 51	0 30	11 6	1 42	5 2	14 37	23 24	23 25	17 36	7 52	2 7			
T 17	2 25	5n41	5 0	9 39	0 24	10 51	8 24	20 24	0 59	6 54	0 58	20 16	0 1	20 51	0 30	11 7	1 42	5 2	14 37	23 24	23 25	17 38	7 51	2 7			
F 18	2 2	11 25	4 49	9 31	0 37	10 43	8 28	20 16	1 0	6 49	0 58	20 15	0 1	20 51	0 30	11 7	1 42	5 2	14 38	23 25	23 25	17 40	7 50	2 7			
S 19	1 39	16 27	4 19	9 18	0 50	10 35	8 31	20 8	1 1	6 44	0 58	20 13	0 1	20 50	0 30	11 8	1 42	5 1	14 38	23 25	23 25	17 42	7 49	2 7			
S 20	1 15	20 25	3 31	9 2	1 1	10 24	8 34	20 0	1 2	6 40	0 58	20 12	0 1	20 50	0 30	11 9	1 42	5 1	14 38	23 25	23 25	17 44	7 48	2 7			
M21	0 52	23 0	2 30	8 42	1 11	10 13	8 36	19 51	1 2	6 35	0 58	20 11	0 1	20 49	0 30	11 9	1 42	5 1	14 38	23 25	23 25	17 45	7 47	2 7			
T 22	0 29	24 3	1 21	8 19	1 20	10 0	8 36	19 43	1 3	6 30	0 58	20 10	0 1	20 49	0 30	11 10	1 42	5 0	14 39	23 25	23 25	17 47	7 46	2 7			
W23	0 6	23 34	0 9	7 52	1 28	9 46	8 36	19 34	1 4	6 25	0 58	20 9	0 1	20 48	0 30	11 11	1 42	5 0	14 39	23 25	23 25	17 49	7 44	2 6			
T 24	0s18	21 42	1s 2	7 23	1 35	9 31	8 35	19 26	1 5	6 20	0 58	20 8	0 1	20 48	0 30	11 11	1 42	5 0	14 39	23 25	23 25	17 50	7 43	2 6			
F 25	0 41	18 42	2 8	6 51	1 40	9 14	8 33	19 17	1 6	6 15	0 58	20 7	0 1	20 47	0 30	11 12	1 42	4 59	14 39	23 25	23 25	17 52	7 42	2 6			
S 26	1 4	14 50	3 6	6 16	1 45	8 57	8 31	19 8	1 6	6 10	0 58	20 6	0 1	20 47	0 30	11 13	1 42	4 59	14 39	23 25	23 25	17 54	7 41	2 6			
S 27	1 28	10 22	3 54	5 40	1 48	8 39	8 27	18 59	1 7	6 5	0 58	20 6	0 0	20 47	0 30	11 13	1 42	4 59	14 40	23 25	23 25	17 56	7 40	2 6			
M28	1 51	5 32	4 29	5 1	1 50	8 20	8 22	18 50	1 8	6 0	0 58	20 5	0 0	20 46	0 30	11 14	1 42	4 58	14 40	23 25	23 25	17 57	7 39	2 6			
T 29	2 14	0 33	4 51	4 21	1 52	8 0	8 16	18 41	1 9	5 55	0 59	20 4	0 0	20 46	0 30	11 15	1 41	4 58	14 40	23 25	23 25	17 59	7 38	2 6			
W30	2s38	4s23	5s 0	3n40	1n53	7s40	8s10	18n32	1n 9	5n51	0n59	20n 3	0s 0	20n45	0n30	11s15	1n41	4n58	14s40	23s25	23s25	18s 1	7n37	2n 6			

ASTRODIENST EPHEMERIS for the year 2122

geocentric

OCTOBER 2122

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 38 0	7♂36'25	11♂35	26♂55	29°R52	11♂45	17♂42	0♂29	29♂26	4♂ 3	26°R 0	0°R38	1♂ 0	7♂57	14°R22	T 1
F 2	0 41 57	8°35'22	23°34	28°42	29♂19	12°21	17°54	0°33	29°28	4° 5	25♂59	0♂24	0°57	8° 4	14°Y19	F 2
S 3	0 45 53	9°34'21	5♂27	0♂31	28°46	12°57	18° 7	0°38	29°30	4° 7	25°58	0°12	0°54	8°10	14°16	S 3
S 4	0 49 50	10°33'22	17° 6	2°19	28°15	13°33	18°19	0°42	29°32	4° 9	25°58	0° 3	0°51	8°17	14°13	S 4
M 5	0 53 46	11°32'24	29° 4	4° 7	27°46	14° 9	18°32	0°46	29°33	4°11	25°57	29♂57	0°47	8°24	14°11	M 5
T 6	0 57 43	12°31'28	10♂54	5°56	27°18	14°45	18°44	0°50	29°35	4°13	25°56	29°53	0°44	8°31	14° 8	T 6
W 7	1 1 39	13°30'35	22°51	7°43	26°53	15°21	18°57	0°54	29°36	4°16	25°55	29°51	0°41	8°37	14° 5	W 7
T 8	1 5 36	14°29'43	4♂59	9°31	26°30	15°56	19° 9	0°58	29°38	4°18	25°55	29°D51	0°38	8°44	14° 2	T 8
F 9	1 9 33	15°28'52	17°24	11°18	26° 8	16°32	19°21	1° 2	29°39	4°20	25°54	29°R51	0°35	8°51	14° 0	F 9
S 10	1 13 29	16°28'04	0♂11	13° 4	25°49	17° 7	19°34	1° 6	29°41	4°22	25°53	29°51	0°32	8°57	13°57	S 10
S 11	1 17 26	17°27'17	13°24	14°50	25°33	17°42	19°46	1° 9	29°42	4°24	25°52	29°48	0°28	9° 4	13°54	S 11
M12	1 21 22	18°26'32	27° 6	16°35	25°18	18°18	19°58	1°13	29°44	4°26	25°51	29°43	0°25	9°11	13°51	M12
T 13	1 25 19	19°25'49	11♂19	18°19	25° 6	18°53	20°10	1°16	29°45	4°29	25°51	29°36	0°22	9°17	13°49	T 13
W14	1 29 15	20°25'07	26° 0	20° 3	24°57	19°28	20°22	1°20	29°46	4°31	25°50	29°26	0°19	9°24	13°46	W14
T 15	1 33 12	21°24'27	11°Y 2	21°46	24°50	20° 3	20°34	1°23	29°47	4°33	25°49	29°16	0°16	9°31	13°43	T 15
F 16	1 37 8	22°23'50	26°17	23°28	24°45	20°38	20°46	1°26	29°48	4°35	25°48	29° 6	0°12	9°38	13°41	F 16
S 17	1 41 5	23°23'14	11♂33	25°10	24°D43	21°12	20°58	1°29	29°50	4°37	25°47	28°58	0° 9	9°44	13°38	S 17
S 18	1 45 2	24°22'41	26°40	26°51	24°44	21°47	21°10	1°32	29°51	4°40	25°46	28°52	0° 6	9°51	13°35	S 18
M19	1 48 58	25°22'10	11♂28	28°31	24°46	22°22	21°22	1°35	29°52	4°42	25°45	28°48	0° 3	9°58	13°32	M19
T 20	1 52 55	26°21'41	25°53	0♂10	24°51	22°56	21°34	1°38	29°52	4°44	25°44	28°D47	29♂59	10° 4	13°30	T 20
W21	1 56 51	27°21'14	9♂52	1°49	24°59	23°30	21°45	1°40	29°53	4°46	25°43	28°47	29°57	10°11	13°27	W21
T 22	2 0 48	28°20'50	23°26	3°27	25° 8	24° 5	21°57	1°43	29°54	4°48	25°42	28°R48	29°53	10°18	13°24	T 22
F 23	2 4 44	29°20'28	6♂36	5° 5	25°20	24°39	22° 9	1°45	29°55	4°51	25°41	28°48	29°50	10°24	13°22	F 23
S 24	2 8 41	0♂20'09	19°26	6°42	25°34	25°13	22°20	1°48	29°56	4°53	25°40	28°46	29°47	10°31	13°19	S 24
S 25	2 12 37	1°19'51	2♂ 0	8°18	25°50	25°47	22°32	1°50	29°56	4°55	25°39	28°42	29°44	10°38	13°17	S 25
M26	2 16 34	2°19'36	14°21	9°54	26° 8	26°21	22°43	1°52	29°57	4°57	25°38	28°35	29°41	10°44	13°14	M26
T 27	2 20 31	3°19'22	26°31	11°29	26°28	26°54	22°54	1°54	29°57	5° 0	25°37	28°26	29°38	10°51	13°11	T 27
W28	2 24 27	4°19'11	8♂34	13° 4	26°50	27°28	23° 6	1°56	29°58	5° 2	25°36	28°16	29°34	10°58	13° 9	W28
T 29	2 28 24	5°19'02	20°31	14°38	27°14	28° 1	23°17	1°58	29°58	5° 4	25°35	28° 5	29°31	11° 4	13° 6	T 29
F 30	2 32 20	6°18'55	2♂23	16°12	27°39	28°35	23°28	1°59	29°59	5° 6	25°34	27°55	29°28	11°11	13° 4	F 30
S 31	2 36 17	7♂18'50	14♂14	17♂45	28♂ 6	29♂ 8	23♂39	2♂ 1	29♂59	5♂ 9	25♂33	27♂46	29♂25	11♂18	13°Y 1	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	3s 1	9s 5	4s54	2n57	1n52	7s20	8s 3	18n23	1n10	5n46	0n59	20n 2	0s 0	20n45	0n31	11s16
F 2	3 24	13 25	4 36	2 13	1 52	6 59	7 54	18 13	1 11	5 41	0 59	20 1	0 0	20 45	0 31	11 17
S 3	3 47	17 11	4 6	1 29	1 50	6 38	7 46	18 4	1 12	5 36	0 59	20 0	0n 0	20 44	0 31	11 18
S 4	4 11	20 15	3 25	0 44	1 48	6 17	7 36	17 54	1 13	5 31	0 59	19 59	0 0	20 44	0 31	11 18
M 5	4 34	22 28	2 35	0s 2	1 45	5 56	7 26	17 45	1 13	5 27	0 59	19 59	0 0	20 44	0 31	11 19
T 6	4 57	23 42	1 39	0 48	1 42	5 35	7 15	17 35	1 14	5 22	0 59	19 58	0 0	20 43	0 31	11 20
W 7	5 20	23 51	0 37	1 33	1 38	5 14	7 4	17 25	1 15	5 17	0 59	19 57	0 0	20 43	0 31	11 20
T 8	5 43	22 53	0n27	2 19	1 34	4 54	6 52	17 15	1 16	5 12	0 59	19 56	0 1	20 43	0 31	11 21
F 9	6 5	20 47	1 32	3 5	1 30	4 35	6 40	17 5	1 17	5 7	1 0	19 56	0 1	20 43	0 31	11 22
S 10	6 28	17 36	2 34	3 51	1 25	4 16	6 27	16 55	1 17	5 3	1 0	19 55	0 1	20 42	0 31	11 23
S 11	6 51	13 26	3 29	4 37	1 20	3 57	6 14	16 45	1 18	4 58	1 0	19 54	0 1	20 42	0 31	11 23
M12	7 13	8 28	4 15	5 22	1 14	3 40	6 1	16 35	1 19	4 53	1 0	19 53	0 1	20 42	0 31	11 24
T 13	7 36	2 53	4 47	6 7	1 9	3 23	5 48	16 25	1 20	4 49	1 0	19 53	0 1	20 42	0 31	11 25
W14	7 58	3n 2	5 2	6 52	1 3	3 7	5 35	16 15	1 21	4 44	1 0	19 52	0 1	20 41	0 31	11 26
T 15	8 21	8 54	4 56	7 36	0 57	2 52	5 21	16 5	1 21	4 39	1 0	19 52	0 1	20 41	0 31	11 26
F 16	8 43	14 19	4 30	8 19	0 51	2 38	5 8	15 44	1 22	4 35	1 0	19 51	0 1	20 41	0 31	11 27
S 17	9 5	18 50	3 44	9 3	0 44	2 24	4 54	15 54	1 23	4 30	1 1	19 50	0 1	20 41	0 31	11 28
S 18	9 27	22 2	2 42	9 45	0 38	2 12	4 41	15 34	1 24	4 26	1 1	19 50	0 2	20 41	0 31	11 29
M19	9 48	23 39	1 31	10 27	0 31	2 1	4 27	15 23	1 25	4 21	1 1	19 49	0 2	20 40	0 31	11 29
T 20	10 10	23 37	0 15	11 8	0 25	1 50	4 14	15 13	1 26	4 17	1 1	19 49	0 2	20 40	0 31	11 30
W21	10 31	22 5	0s59	11 49	0 18	1 41	4 0	15 2	1 26	4 12	1 1	19 48	0 2	20 40	0 31	11 31
T 22	10 53	19 18	2 8	12 29	0 11	1 33	3 47	14 51	1 27	4 8	1 1	19 48	0 2	20 40	0 31	11 32
F 23	11 14	15 35	3 8	13 8	0 4	1 26	3 34	14 41	1 28	4 3	1 1	19 47	0 2	20 40	0 31	11 32
S 24	11 35	11 14	3 57	13 47	0s 2	1 19	3 21	14 30	1 29	3 59	1 1	19 47	0 2	20 40	0 31	11 33
S 25	11 56	6 30	4 33	14 25	0 9	1 14	3 9	14 20	1 30	3 54	1 2	19 46	0 2	20 40	0 31	11 34
M26	12 16	1 36	4 56	15 2	0 16	1 10	2 56	14 9	1 31	3 50	1 2	19 46	0 2	20 40	0 31	11 35
T 27	12 37	3s17	5 5	15 38	0 23	1 6	2 44	13 58	1 31	3 46	1 2	19 46	0 2	20 39	0 31	11 35
W28	12 57	7 59	5 0	16 13	0 30	1 4	2 32	13 47	1 32	3 41	1 2	19 45	0 3	20 39	0 31	11 36
T 29	13 17	12 22	4 42	16 48	0 36	1 3	2 20	13 37	1 33	3 37	1 2	19 45	0 3	20 39	0 31	11 37
F 30	13 37	16 15	4 12	17 22	0 43	1 2	2 8	13 26	1 34	3 33	1 2	19 45	0 3	20 39	0 32	11 38
S 31	13s57	19s28	3s32	17s54	0s50	1s 2	1s57	13n15	1n35	3n29	1n 2	19n45	0n 3	20n39	0n32	11s38

Julian Day Number = 2496377.5, Delta T = 104.79 sec
 Ecliptic obliquity = 23°25'25", Nutation = 0°00'17", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°27'19", Lahiri = 25°34'20"

ASTRODIENST EPHEMERIS for the year 2122
geocentric

NOVEMBER 2122

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 40 13	8♍18'47	26♍ 3	19♍18	28♍35	29♍41	23♍50	2♍ 3	29♍59	5♍11	25°R32	27°R39	29♍22	11♍25	12°R59	S 1
M 2	2 44 10	9°18'46	7♍53	20°50	29° 6	0♍14	24° 1	2° 4	29°59	5°13	25♍31	27♍34	29°18	11°31	12°Y57	M 2
T 3	2 48 6	10°18'47	19°46	22°22	29°38	0°47	24°12	2° 5	29°59	5°15	25°30	27°32	29°15	11°38	12°54	T 3
W 4	2 52 3	11°18'49	1♍46	23°53	0♍11	1°20	24°22	2° 6	29°59	5°18	25°29	27°D32	29°12	11°45	12°52	W 4
T 5	2 55 59	12°18'53	13°57	25°24	0°46	1°52	24°33	2° 7	29°R59	5°20	25°28	27°33	29° 9	11°51	12°50	T 5
F 6	2 59 56	13°18'59	26°21	26°54	1°22	2°25	24°44	2° 8	29°59	5°22	25°26	27°35	29° 6	11°58	12°47	F 6
S 7	3 3 53	14°19'06	9♍ 5	28°24	1°59	2°57	24°54	2° 9	29°59	5°24	25°25	27°R36	29° 3	12° 5	12°45	S 7
S 8	3 7 49	15°19'14	22°12	29°54	2°38	3°29	25° 5	2°10	29°59	5°26	25°24	27°35	28°59	12°11	12°43	S 8
M 9	3 11 46	16°19'25	5♍45	1♍23	3°18	4° 1	25°15	2°10	29°59	5°29	25°23	27°34	28°56	12°18	12°41	M 9
T 10	3 15 42	17°19'36	19°47	2°51	3°59	4°33	25°25	2°11	29°59	5°31	25°22	27°30	28°53	12°25	12°38	T 10
W11	3 19 39	18°19'49	4♍16	4°19	4°41	5° 5	25°35	2°11	29°59	5°33	25°21	27°25	28°50	12°31	12°36	W11
T 12	3 23 35	19°20'04	19°10	5°47	5°25	5°37	25°45	2°11	29°59	5°35	25°20	27°19	28°47	12°38	12°34	T 12
F 13	3 27 32	20°20'20	4♍20	7°13	6° 9	6° 8	25°55	2°12	29°58	5°37	25°19	27°14	28°44	12°45	12°32	F 13
S 14	3 31 28	21°20'38	19°38	8°40	6°55	6°40	26° 5	2°R12	29°58	5°40	25°18	27° 9	28°40	12°51	12°30	S 14
S 15	3 35 25	22°20'57	4♍51	10° 6	7°41	7°11	26°15	2°11	29°57	5°42	25°16	27° 6	28°37	12°58	12°28	S 15
M16	3 39 22	23°21'19	19°51	11°31	8°28	7°42	26°24	2°11	29°57	5°44	25°15	27°D 4	28°34	13° 5	12°26	M16
T 17	3 43 18	24°21'42	4♍30	12°55	9°17	8°13	26°34	2°11	29°56	5°46	25°14	27° 4	28°31	13°12	12°24	T 17
W18	3 47 15	25°22'07	18°42	14°18	10° 6	8°44	26°43	2°11	29°56	5°48	25°13	27° 5	28°28	13°18	12°23	W18
T 19	3 51 11	26°22'33	2♍27	15°41	10°56	9°14	26°53	2°10	29°55	5°50	25°12	27° 7	28°24	13°25	12°21	T 19
F 20	3 55 8	27°23'02	15°45	17° 3	11°47	9°45	27° 2	2° 9	29°54	5°53	25°11	27° 8	28°21	13°32	12°19	F 20
S 21	3 59 4	28°23'32	28°38	18°23	12°38	10°15	27°11	2° 9	29°53	5°55	25°10	27°R 9	28°18	13°38	12°17	S 21
S 22	4 3 1	29°24'05	11♍12	19°42	13°31	10°45	27°20	2° 8	29°53	5°57	25° 9	27° 8	28°15	13°45	12°16	S 22
M23	4 6 58	0♍24'38	23°29	21° 0	14°24	11°15	27°29	2° 7	29°52	5°59	25° 8	27° 6	28°12	13°52	12°14	M23
T 24	4 10 54	1°25'14	5♍34	22°17	15°17	11°45	27°37	2° 6	29°51	6° 1	25° 6	27° 3	28° 9	13°58	12°12	T 24
W25	4 14 51	2°25'51	17°30	23°31	16°12	12°14	27°46	2° 4	29°50	6° 3	25° 5	26°59	28° 5	14° 5	12°11	W25
T 26	4 18 47	3°26'30	29°22	24°44	17° 7	12°43	27°55	2° 3	29°49	6° 5	25° 4	26°55	28° 2	14°12	12° 9	T 26
F 27	4 22 44	4°27'11	11♍12	25°54	18° 3	13°13	28° 3	2° 2	29°47	6° 7	25° 3	26°50	27°59	14°18	12° 8	F 27
S 28	4 26 40	5°27'53	23° 2	27° 1	18°59	13°42	28°11	2° 0	29°46	6° 9	25° 2	26°47	27°56	14°25	12° 7	S 28
S 29	4 30 37	6°28'37	4♍54	28° 5	19°56	14°10	28°19	1°59	29°45	6°11	25° 1	26°44	27°53	14°32	12° 5	S 29
M30	4 34 33	7♍29'21	16♍50	29♍ 6	20♍53	14♍39	28♍27	1♍57	29♍44	6♍13	25♍ 0	26♍43	27♍50	14♍38	12°Y 4	M30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	14s16	21s52	2s41	18s26	0s56	1s 4	1s46	13n 4	1n36	3n24	1n 3	19n44	0n 3	20n39	0n32	11s39
M 2	14 35	23 19	1 44	18 57	1 2	1 6	1 35	12 53	1 37	3 20	1 3	19 44	0 3	20 39	0 32	11 40
T 3	14 54	23 44	0 42	19 27	1 9	1 9	1 24	12 42	1 38	3 16	1 3	19 44	0 3	20 39	0 32	11 40
W 4	15 13	23 2	0n23	19 56	1 15	1 12	1 14	12 32	1 38	3 12	1 3	19 44	0 3	20 39	0 32	11 41
T 5	15 31	21 14	1 28	20 25	1 21	1 17	1 4	12 21	1 39	3 8	1 3	19 44	0 3	20 39	0 32	11 42
F 6	15 50	18 25	2 30	20 52	1 27	1 22	0 54	12 10	1 40	3 4	1 3	19 44	0 3	20 39	0 32	11 43
S 7	16 7	14 39	3 26	21 18	1 33	1 28	0 44	11 59	1 41	3 0	1 4	19 44	0 4	20 39	0 32	11 43
S 8	16 25	10 6	4 14	21 43	1 38	1 35	0 35	11 48	1 42	2 56	1 4	19 43	0 4	20 39	0 32	11 44
M 9	16 43	4 55	4 49	22 7	1 44	1 42	0 26	11 38	1 43	2 52	1 4	19 43	0 4	20 39	0 32	11 45
T 10	17 0	0n41	5 8	22 30	1 49	1 50	0 17	11 27	1 44	2 48	1 4	19 43	0 4	20 40	0 32	11 46
W11	17 16	6 25	5 8	22 52	1 54	1 59	0 8	11 16	1 45	2 44	1 4	19 43	0 4	20 40	0 32	11 46
T 12	17 33	11 57	4 49	23 12	1 59	2 9	0n 0	11 5	1 46	2 40	1 4	19 43	0 4	20 40	0 32	11 47
F 13	17 49	16 51	4 8	23 32	2 3	2 19	0 9	10 54	1 47	2 37	1 5	19 44	0 4	20 40	0 32	11 48
S 14	18 5	20 41	3 10	23 50	2 8	2 29	0 17	10 44	1 48	2 33	1 5	19 44	0 4	20 40	0 32	11 48
S 15	18 21	23 2	1 58	24 7	2 12	2 40	0 24	10 33	1 49	2 29	1 5	19 44	0 4	20 40	0 32	11 49
M16	18 36	23 41	0 39	24 23	2 16	2 52	0 32	10 22	1 49	2 26	1 5	19 44	0 5	20 40	0 32	11 50
T 17	18 51	22 40	0s41	24 38	2 19	3 5	0 39	10 11	1 50	2 22	1 5	19 44	0 5	20 40	0 32	11 50
W18	19 6	20 12	1 56	24 51	2 22	3 17	0 46	10 1	1 51	2 18	1 6	19 44	0 5	20 41	0 32	11 51
T 19	19 20	16 39	3 2	25 3	2 25	3 31	0 53	9 50	1 52	2 15	1 6	19 45	0 5	20 41	0 32	11 52
F 20	19 34	12 21	3 56	25 14	2 27	3 44	1 0	9 40	1 53	2 11	1 6	19 45	0 5	20 41	0 32	11 53
S 21	19 47	7 37	4 36	25 24	2 29	3 59	1 6	9 29	1 54	2 8	1 6	19 45	0 5	20 41	0 32	11 53
S 22	20 1	2 42	5 2	25 32	2 31	4 13	1 12	9 19	1 55	2 5	1 6	19 45	0 5	20 41	0 32	11 54
M23	20 13	2s12	5 13	25 38	2 32	4 28	1 18	9 8	1 56	2 1	1 7	19 46	0 5	20 42	0 32	11 55
T 24	20 26	6 57	5 10	25 44	2 32	4 44	1 24	8 58	1 57	1 58	1 7	19 46	0 5	20 42	0 32	11 55
W25	20 38	11 24	4 54	25 48	2 32	5 0	1 29	8 47	1 58	1 55	1 7	19 46	0 6	20 42	0 32	11 56
T 26	20 50	15 22	4 25	25 50	2 31	5 16	1 34	8 37	1 59	1 52	1 7	19 47	0 6	20 42	0 32	11 56
F 27	21 1	18 45	3 45	25 51	2 30	5 32	1 40	8 27	2 0	1 48	1 7	19 47	0 6	20 43	0 33	11 57
S 28	21 12	21 21	2 55	25 51	2 28	5 49	1 44	8 17	2 1	1 45	1 8	19 48	0 6	20 43	0 33	11 58
S 29	21 23	23 2	1 58	25 49	2 25	6 6	1 49	8 6	2 2	1 42	1 8	19 48	0 6	20 43	0 33	11 58
M30	21s33	23s40	0s54	25s46	2s21	6s23	1n54	7n56	2n 3	1n39	1n 8	19n49	0n 6	20n43	0n33	11s59

Julian Day Number = 2496408.5, Delta T = 104.84 sec
Ecliptic obliquity = 23°25'24, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°27'24, Lahiri = 25°34'24

ASTRODIENST EPHEMERIS for the year 2122

geocentric

DECEMBER 2122

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 38 30	8°30'08	28°53'	0°33'	21°51'	15°7'	28°35'	1°R55	29°R43	6°M15	24°R59	26°D43	27°A46	14°M45	12°R 3	T 1
W 2	4 42 27	9°30'55	11°33'	0°56'	22°50'	15°35'	28°43'	1°R53	29°R41	6°17	24°R58	26°A43	27°43	14°52	12°Y 1	W 2
T 3	4 46 23	10°31'43	23°24'	1°43'	23°49'	16° 3	28°51'	1°51	29°40	6°19	24°56	26°44	27°40	14°58	12° 0	T 3
F 4	4 50 20	11°32'33	5°57'	2°24'	24°48'	16°31	28°58'	1°49	29°38	6°21	24°55	26°46	27°37	15° 5	11°59	F 4
S 5	4 54 16	12°33'23	18°46'	2°59'	25°48'	16°59	29° 6	1°46	29°37	6°23	24°54	26°47	27°34	15°12	11°58	S 5
S 6	4 58 13	13°34'14	1°53'	3°27'	26°48'	17°26	29°13	1°44	29°35	6°25	24°53	26°48	27°30	15°19	11°57	S 6
M 7	5 2 9	14°35'06	15°21'	3°46'	27°49'	17°53	29°20	1°42	29°34	6°27	24°52	26°R48	27°27	15°25	11°56	M 7
T 8	5 6 6	15°35'58	29°11'	3°56'	28°50'	18°20	29°27	1°39	29°32	6°28	24°51	26°48	27°24	15°32	11°55	T 8
W 9	5 10 2	16°36'52	13°Y23	3°R56	29°52'	18°46	29°34	1°36	29°30	6°30	24°50	26°47	27°21	15°39	11°55	W 9
T 10	5 13 59	17°37'46	27°56'	3°46'	0°M54	19°13	29°40	1°34	29°29	6°32	24°49	26°46	27°18	15°45	11°54	T 10
F 11	5 17 56	18°38'41	12°B46	3°25'	1°56'	19°39	29°47	1°31	29°27	6°34	24°48	26°45	27°15	15°52	11°53	F 11
S 12	5 21 52	19°39'37	27°45'	2°52'	2°59'	20° 5	29°53	1°28	29°25	6°36	24°47	26°44	27°11	15°59	11°52	S 12
S 13	5 25 49	20°40'33	12°II47	2° 8	4° 2	20°30	29°59	1°25	29°23	6°37	24°46	26°44	27° 8	16° 5	11°52	S 13
M14	5 29 45	21°41'31	27°42'	1°13	5° 6	20°56	0°A 5	1°22	29°21	6°39	24°45	26°D44	27° 5	16°12	11°51	M14
T 15	5 33 42	22°42'29	12°B21	0° 8	6° 9	21°21	0°11	1°18	29°20	6°41	24°44	26°44	27° 2	16°19	11°51	T 15
W16	5 37 38	23°43'28	26°40'	28°A55	7°13	21°45	0°17	1°15	29°18	6°42	24°43	26°44	26°59	16°25	11°50	W16
T 17	5 41 35	24°44'28	10°A34	27°36'	8°18	22°10	0°23	1°12	29°16	6°44	24°42	26°44	26°56	16°32	11°50	T 17
F 18	5 45 31	25°45'29	24° 1	26°14	9°23	22°34	0°28	1° 8	29°14	6°46	24°41	26°44	26°52	16°39	11°50	F 18
S 19	5 49 28	26°46'31	7°M 3	24°51	10°28	22°58	0°33	1° 5	29°12	6°47	24°40	26°R45	26°49	16°45	11°49	S 19
S 20	5 53 25	27°47'34	19°42'	23°30	11°33	23°22	0°38	1° 1	29° 9	6°49	24°39	26°44	26°46	16°52	11°49	S 20
M21	5 57 21	28°48'37	2°A 1	22°14	12°39	23°45	0°43	0°57	29° 7	6°50	24°38	26°D44	26°43	16°59	11°49	M21
T 22	6 1 18	29°49'42	14° 7	21° 5	13°44	24° 8	0°48	0°54	29° 5	6°52	24°38	26°45	26°40	17° 5	11°49	T 22
W23	6 5 14	0°S50'47	26° 2	20° 5	14°51	24°31	0°53	0°50	29° 3	6°54	24°37	26°45	26°36	17°12	11°49	W23
T 24	6 9 11	1°51'54	7°M52	19°14	15°57	24°53	0°57	0°46	29° 1	6°55	24°36	26°45	26°33	17°19	11°D49	T 24
F 25	6 13 7	2°53'01	19°41	18°34	17° 4	25°15	1° 1	0°42	28°59	6°56	24°35	26°46	26°30	17°25	11°49	F 25
S 26	6 17 4	3°54'08	1°A32	18° 5	18°10	25°37	1° 6	0°38	28°56	6°58	24°34	26°47	26°27	17°32	11°49	S 26
S 27	6 21 0	4°55'16	13°29	17°47	19°18	25°58	1° 9	0°33	28°54	6°59	24°33	26°47	26°24	17°39	11°49	S 27
M28	6 24 57	5°56'25	25°34	17°D39	20°25	26°19	1°13	0°29	28°52	7° 1	24°32	26°R48	26°21	17°45	11°49	M28
T 29	6 28 54	6°57'34	7°B49	17°41	21°32	26°40	1°17	0°25	28°49	7° 2	24°32	26°47	26°17	17°52	11°50	T 29
W30	6 32 50	7°58'44	20°16	17°52	22°40	27° 0	1°20	0°21	28°47	7° 3	24°31	26°47	26°14	17°59	11°50	W30
T 31	6 36 47	8°59'53	2°A55	18°A11	23°M48	27°M20	1°A23	0°A16	28°A45	7°M 5	24°B30	26°A45	26°A11	18°M 5	11°Y50	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	21s42	23s13	0n12	25s42	2s17	6s41	1n58	7n46	2n 4	1n36	1n 8	19n49	0n 6	20n44	0n33	12s 0
W 2	21 52	21 40	1 19	25 36	2 11	6 59	2 2	7 36	2 6	1 33	1 9	19 50	0 6	20 44	0 33	12 0
T 3	22 1	19 3	2 22	25 29	2 4	7 17	2 6	7 26	2 7	1 31	1 9	19 50	0 6	20 44	0 33	12 1
F 4	22 9	15 32	3 21	25 21	1 57	7 35	2 10	7 17	2 8	1 28	1 9	19 51	0 7	20 45	0 33	12 1
S 5	22 17	11 13	4 10	25 11	1 48	7 54	2 13	7 7	2 9	1 25	1 9	19 52	0 7	20 45	0 33	12 2
S 6	22 25	6 19	4 48	25 0	1 37	8 12	2 16	6 57	2 10	1 23	1 9	19 52	0 7	20 45	0 33	12 3
M 7	22 32	0 59	5 11	24 48	1 26	8 31	2 20	6 48	2 11	1 20	1 10	19 53	0 7	20 46	0 33	12 3
T 8	22 39	4n31	5 17	24 35	1 13	8 50	2 23	6 38	2 12	1 17	1 10	19 54	0 7	20 46	0 33	12 4
W 9	22 45	9 57	5 4	24 20	0 58	9 9	2 25	6 29	2 13	1 15	1 10	19 54	0 7	20 47	0 33	12 4
T 10	22 51	14 57	4 32	24 5	0 43	9 28	2 28	6 20	2 14	1 12	1 10	19 55	0 7	20 47	0 33	12 5
F 11	22 56	19 10	3 41	23 48	0 26	9 47	2 31	6 10	2 15	1 10	1 11	19 56	0 7	20 47	0 33	12 5
S 12	23 1	22 9	2 34	23 31	0 7	10 6	2 33	6 1	2 16	1 8	1 11	19 56	0 7	20 48	0 33	12 6
S 13	23 6	23 35	1 17	23 13	0n12	10 25	2 35	5 52	2 18	1 6	1 11	19 57	0 8	20 48	0 33	12 6
M14	23 10	23 19	0s 5	22 53	0 32	10 45	2 37	5 43	2 19	1 3	1 11	19 58	0 8	20 49	0 33	12 7
T 15	23 13	21 25	1 26	22 34	0 52	11 4	2 39	5 34	2 20	1 1	1 12	19 59	0 8	20 49	0 33	12 8
W16	23 16	18 12	2 39	22 13	1 12	11 23	2 40	5 26	2 21	0 59	1 12	20 0	0 8	20 49	0 33	12 8
T 17	23 19	14 2	3 40	21 53	1 31	11 43	2 42	5 17	2 22	0 57	1 12	20 1	0 8	20 50	0 33	12 9
F 18	23 21	9 18	4 28	21 33	1 50	12 2	2 43	5 9	2 23	0 55	1 12	20 1	0 8	20 50	0 33	12 9
S 19	23 23	4 17	4 59	21 13	2 6	12 21	2 44	5 0	2 25	0 53	1 13	20 2	0 8	20 51	0 33	12 10
S 20	23 24	0s46	5 15	20 55	2 21	12 40	2 45	4 52	2 26	0 52	1 13	20 3	0 8	20 51	0 33	12 10
M21	23 25	5 39	5 16	20 38	2 34	12 59	2 46	4 44	2 27	0 50	1 13	20 4	0 8	20 52	0 33	12 10
T 22	23 25	10 13	5 3	20 24	2 44	13 18	2 47	4 36	2 28	0 48	1 13	20 5	0 9	20 52	0 33	12 11
W23	23 25	14 21	4 37	20 12	2 52	13 37	2 47	4 28	2 30	0 47	1 14	20 6	0 9	20 53	0 33	12 11
T 24	23 25	17 54	4 0	20 3	2 57	13 55	2 48	4 20	2 31	0 45	1 14	20 7	0 9	20 53	0 33	12 12
F 25	23 23	20 43	3 12	19 56	3 0	14 14	2 48	4 13	2 32	0 44	1 14	20 8	0 9	20 54	0 33	12 12
S 26	23 22	22 40	2 16	19 53	3 1	14 32	2 48	4 5	2 33	0 42	1 14	20 9	0 9	20 54	0 33	12 13
S 27	23 20	23 37	1 13	19 52	3 1	14 50	2 48	3 58	2 35	0 41	1 15	20 10	0 9	20 55	0 33	12 13
M28	23 17	23 28	0 7	19 53	2 59	15 8	2 48	3 51	2 36	0 40	1 15	20 11	0 9	20 55	0 33	12 13
T 29	23 14	22 11	1n 1	19 57	2 55	15 26	2 48	3 44	2 37	0 39	1 15	20 12	0 9	20 56	0 33	12 14
W30	23 11	19 49	2 7	20 3	2 50	15 43	2 48	3 37	2 38	0 37	1 16	20 13	0 10	20 56	0 33	12 14
T 31	23s 7	16s27	3n 7	20s10	2n45	16s 1	2n47	3n30	2n40	0n36	1n16	20n14	0n10	20n57	0n33	12s15

Julian Day Number = 2496438.5, Delta T = 104.88 sec
 Ecliptic obliquity = 23°25'23", Nutation = 0°00'16", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°27'28", Lahiri = 25°34'28"