



Astrodienst Ephemeris Tables for the year 2230

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 2230

geocentric

JANUARY 2230

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	6 41 3	10°22'	21°11'	28°24'	24°23'	2°R42	9°38'	4°24'	18°43'	0°R55	0°M10	25°R51	26°39'	21°47'	15°R50	F 1
S 2	6 45 0	11° 3'29	6°11'	29°55'	25°15'	2°Q23	9°43'	4°29'	18°46'	0°S53	0°11'	25°42'	26°36'	21°54'	15°R48	S 2
S 3	6 48 56	12° 4'36	20°47'	1°327	26° 8'	2° 3'	9°47'	4°34'	18°48'	0°52'	0°13'	25°35'	26°33'	22° 1'	15°47'	S 3
M 4	6 52 53	13° 5'43	4°10'54	3° 0'	27° 2'	1°43'	9°51'	4°40'	18°51'	0°50'	0°14'	25°31'	26°29'	22° 7'	15°45'	M 4
T 5	6 56 49	14° 6'50	18°31'	4°32'	27°56'	1°22'	9°55'	4°45'	18°53'	0°48'	0°15'	25°29'	26°26'	22°14'	15°44'	T 5
W 6	7 0 46	15° 7'58	1°139	6° 5'	28°51'	1° 0'	9°59'	4°51'	18°56'	0°47'	0°16'	25°D29	26°23'	22°21'	15°43'	W 6
T 7	7 4 42	16° 9'06	14°23'	7°39'	29°46'	0°38'	10° 2'	4°56'	18°58'	0°45'	0°17'	25°R30	26°20'	22°28'	15°42'	T 7
F 8	7 8 39	17°10'15	26°46'	9°13'	0°42'	0°16'	10° 5'	5° 2'	19° 1'	0°44'	0°17'	25°29'	26°17'	22°34'	15°41'	F 8
S 9	7 12 36	18°11'24	8°155	10°47'	1°39'	29°S53	10° 9'	5° 8'	19° 3'	0°42'	0°18'	25°27'	26°13'	22°41'	15°40'	S 9
S 10	7 16 32	19°12'33	20°53'	12°21'	2°36'	29°30'	10°12'	5°13'	19° 5'	0°40'	0°19'	25°22'	26°10'	22°48'	15°39'	S 10
M 11	7 20 29	20°13'42	2°145	13°56'	3°33'	29° 7'	10°14'	5°19'	19° 8'	0°39'	0°20'	25°15'	26° 7'	22°55'	15°38'	M 11
T 12	7 24 25	21°14'52	14°36'	15°31'	4°32'	28°43'	10°17'	5°25'	19°10'	0°37'	0°21'	25° 5'	26° 4'	23° 1'	15°37'	T 12
W 13	7 28 22	22°16'01	26°27'	17° 7'	5°30'	28°20'	10°19'	5°31'	19°12'	0°36'	0°22'	24°53'	26° 1'	23° 8'	15°36'	W 13
T 14	7 32 18	23°17'10	8°322	18°43'	6°29'	27°56'	10°22'	5°37'	19°14'	0°34'	0°22'	24°40'	25°58'	23°15'	15°36'	T 14
F 15	7 36 15	24°18'20	20°21'	20°19'	7°29'	27°32'	10°24'	5°43'	19°16'	0°33'	0°23'	24°28'	25°54'	23°21'	15°35'	F 15
S 16	7 40 11	25°19'29	2°226	21°56'	8°29'	27° 8'	10°26'	5°49'	19°19'	0°31'	0°24'	24°17'	25°51'	23°28'	15°34'	S 16
S 17	7 44 8	26°20'37	14°38'	23°33'	9°30'	26°44'	10°27'	5°55'	19°21'	0°30'	0°24'	24° 8'	25°48'	23°35'	15°34'	S 17
M 18	7 48 5	27°21'45	26°59'	25°11'	10°30'	26°20'	10°29'	6° 2'	19°23'	0°28'	0°25'	24° 1'	25°45'	23°42'	15°33'	M 18
T 19	7 52 1	28°22'53	9°128	26°49'	11°32'	25°56'	10°30'	6° 8'	19°24'	0°27'	0°25'	23°58'	25°42'	23°48'	15°33'	T 19
W 20	7 55 58	29°23'59	22° 9'	28°28'	12°33'	25°32'	10°31'	6°14'	19°26'	0°25'	0°26'	23°D57	25°39'	23°55'	15°33'	W 20
T 21	7 59 54	0°25'06	5°14	0°25 7	13°35'	25° 8'	10°32'	6°21'	19°28'	0°24'	0°26'	23°57'	25°35'	24° 2'	15°32'	T 21
F 22	8 3 51	1°26'11	18°15'	1°47'	14°38'	24°45'	10°33'	6°27'	19°30'	0°22'	0°27'	23°58'	25°32'	24° 9'	15°32'	F 22
S 23	8 7 47	2°27'15	1°46	3°28'	15°40'	24°22'	10°33'	6°34'	19°32'	0°21'	0°27'	23°R59	25°29'	24°15'	15°32'	S 23
S 24	8 11 44	3°28'19	15°38'	5° 9'	16°43'	23°59'	10°34'	6°40'	19°33'	0°20'	0°27'	23°58'	25°26'	24°22'	15°32'	S 24
M 25	8 15 40	4°29'22	29°51'	6°50'	17°47'	23°37'	10°R34	6°47'	19°35'	0°18'	0°28'	23°55'	25°23'	24°29'	15°D32	M 25
T 26	8 19 37	5°30'24	14°125	8°32'	18°50'	23°15'	10°34'	6°53'	19°36'	0°17'	0°28'	23°51'	25°19'	24°35'	15°32'	T 26
W 27	8 23 34	6°31'25	29°15'	10°15'	19°54'	22°54'	10°34'	7° 0'	19°38'	0°16'	0°28'	23°44'	25°16'	24°42'	15°32'	W 27
T 28	8 27 30	7°32'26	14°14	11°58'	20°58'	22°33'	10°33'	7° 6'	19°39'	0°14'	0°28'	23°37'	25°13'	24°49'	15°32'	T 28
F 29	8 31 27	8°33'25	29°13'	13°41'	22° 3'	22°13'	10°33'	7°13'	19°41'	0°13'	0°29'	23°29'	25°10'	24°56'	15°32'	F 29
S 30	8 35 23	9°34'23	14°13	15°25'	23° 8'	21°53'	10°32'	7°20'	19°42'	0°12'	0°29'	23°23'	25° 7'	25° 2'	15°33'	S 30
S 31	8 39 20	10°35'21	28°135	17°29	24°13	21°S33	10°31	7°27	19°44	0°11	0°29	23°19	25°4	25°29	15°33	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	23s 2	26n13	4n32	23s53	0s29	15s20	3n38	23n17	3n51	2s38	1n17	11s24	1s37	17s 1	0n22	22n10	1s14	4n20	16n53	1s39	1s20	28s16	14n33	2s 6	
S 2	22 57	22 24	3 49	24 0	0 36	15 31	3 39	23 23	3 53	2 40	1 17	11 22	1 37	17 2	0 22	22 10	1 14	4 20	16 54	1 42	1 21	28 17	14 32	2 6	
S 3	22 52	17 16	2 53	24 6	0 42	15 42	3 40	23 30	3 55	2 41	1 17	11 20	1 37	17 3	0 22	22 10	1 14	4 20	16 54	1 45	1 22	28 17	14 32	2 6	
M 4	22 46	11 21	1 47	24 11	0 48	15 53	3 41	23 37	3 57	2 43	1 17	11 18	1 37	17 4	0 22	22 10	1 14	4 20	16 55	1 47	1 24	28 18	14 32	2 6	
T 5	22 40	5 6	0 37	24 14	0 54	16 4	3 42	23 43	3 59	2 44	1 18	11 16	1 37	17 4	0 22	22 10	1 14	4 20	16 55	1 47	1 25	28 18	14 31	2 6	
W 6	22 33	1s10	0s33	24 17	1 0	16 15	3 42	23 50	4 1	2 45	1 18	11 13	1 37	17 5	0 22	22 11	1 14	4 20	16 56	1 47	1 26	28 19	14 31	2 6	
T 7	22 26	7 11	1 39	24 18	1 6	16 27	3 43	23 57	4 3	2 46	1 18	11 11	1 37	17 6	0 22	22 11	1 14	4 21	16 56	1 47	1 27	28 19	14 31	2 6	
F 8	22 19	12 46	2 38	24 17	1 12	16 38	3 43	24 3	4 5	2 47	1 18	11 9	1 37	17 6	0 22	22 11	1 14	4 21	16 57	1 47	1 29	28 20	14 30	2 6	
S 9	22 11	17 45	3 29	24 15	1 17	16 50	3 43	24 10	4 6	2 48	1 19	11 7	1 37	17 7	0 22	22 11	1 14	4 21	16 57	1 48	1 30	28 20	14 30	2 6	
S 10	22 2	21 58	4 10	24 12	1 22	17 1	3 43	24 16	4 8	2 49	1 19	11 5	1 37	17 8	0 22	22 11	1 14	4 21	16 58	1 50	1 31	28 21	14 30	2 6	
M11	21 53	25 15	4 40	24 8	1 27	17 12	3 42	24 23	4 9	2 50	1 19	11 3	1 36	17 8	0 22	22 11	1 14	4 21	16 58	1 53	1 32	28 21	14 30	2 6	
T 12	21 44	27 27	4 57	24 2	1 32	17 23	3 42	24 29	4 11	2 51	1 19	11 0	1 36	17 9	0 22	22 11	1 14	4 22	16 59	1 57	1 34	28 22	14 29	2 6	
W13	21 34	28 24	5 2	23 54	1 36	17 34	3 41	24 35	4 12	2 52	1 20	10 58	1 36	17 9	0 22	22 11	1 14	4 22	17 0	2 2	1 35	28 22	14 29	2 6	
T 14	21 24	28 2	4 54	23 46	1 40	17 45	3 40	24 41	4 13	2 52	1 20	10 56	1 36	17 10	0 22	22 11	1 14	4 22	17 0	2 7	1 36	28 22	14 29	2 6	
F 15	21 14	26 22	4 33	23 36	1 44	17 56	3 39	24 47	4 14	2 53	1 20	10 54	1 36	17 11	0 22	22 11	1 14	4 23	17 1	2 12	1 38	28 23	14 29	2 6	
S 16	21 3	23 28	3 59	23 24	1 48	18 6	3 38	24 53	4 15	2 53	1 21	10 51	1 36	17 11	0 22	22 11	1 14	4 23	17 1	2 16	1 39	28 23	14 29	2 6	
S 17	20 52	19 31	3 14	23 11	1 51	18 17	3 37	24 58	4 16	2 54	1 21	10 49	1 36	17 12	0 22	22 11	1 14	4 23	17 2	2 20	1 40	28 23	14 29	2 6	
M18	20 40	14 41	2 19	22 57	1 54	18 27	3 35	25 4	4 17	2 54	1 21	10 47	1 36	17 12	0 22	22 11	1 14	4 24	17 2	2 22	1 41	28 24	14 29	2 6	
T 19	20 28	9 12	1 17	22 41	1 57	18 37	3 34	25 9	4 17	2 54	1 21	10 44	1 36	17 13	0 22	22 11	1 14	4 24	17 3	2 24	1 43	28 24	14 29	2 5	
W20	20 15	3 15	0 10	22 23	1 59	18 46	3 32	25 14	4 18	2 54	1 22	10 42	1 36	17 13	0 22	22 11	1 14	4 24	17 4	2 24	1 44	28 25	14 28	2 5	
T 21	20 2	2n55	0n59	22 4	2 1	18 56	3 30	25 19	4 18	2 55	1 22	10 40	1 36	17 14	0 22	22 11	1 14	4 25	17 4	2 24	1 45	28 25	14 28	2 5	
F 22	19 49	9 6	2 7	21 44	2 3	19 5	3 28	25 23	4 19	2 55	1 22	10 37	1 36	17 14	0 22	22 11	1 14	4 25	17 5	2 24	1 46	28 25	14 28	2 5	
S 23	19 35	15 1	3 9	21 22	2 4	19 14	3 26	25 28	4 19	2 55	1 22	10 35	1 36	17 15	0 22	22 11	1 14	4 26	17 5	2 23	1 48	28 26	14 28	2 5	
S 24	19 21	20 21	4 1	20 59	2 5	19 22	3 24	25 32	4 19	2 54	1 23	10 32	1 36	17 15	0 22	22 11	1 14	4 26	17 6	2 24	1 49	28 26	14 28	2 5	
M25	19 7	24 40	4 41	20 34	2 6	19 31	3 21	25 36	4 19	2 54	1 23	10 30	1 36	17 15	0 22	22 11	1 14	4 26	17 6	2 25	1 50	28 26	14 28	2 5	
T 26	18 52	27 31	5 3	20 8	2 6	19 38	3 19	25 39	4 19	2 54	1 23	10 27	1 36	17 16	0 22	22 11	1 14	4 27	17 7	2 27	1 51	28 27	14 28	2 5	
W27	18 37	28 30	5 6	19 40	2 5	19 46	3 16	25 43	4 18	2 54	1 24	10 25	1 36	17 16	0 22	22 11	1 13	4 27	17 8	2 29	1 53	28 27	14 29	2 5	
T 28	18 22	27 25	4 48	19 11	2 5	19 53	3 14	25 46	4 18	2 53	1 24	10 22	1 36	17 17	0 22	22 11	1 13	4 28	17 8	2 32	1 54	28 27	14 29	2 5	
F 29	18 6	24 22	4 10	18 40	2 3	20 0	3 11	25 49	4 18	2 53	1 24	10 20	1 36	17 17	0 22	22 11	1 13	4 28	17 9	2 35	1 55	28 27	14 29	2 5	
S 30	17 50	19 43	3 16	18 8	2 2	20 6	3 8	25 52	4 17	2 52	1 24	10 17	1 36	17 17	0 22	22 11	1 13	4 29	17 9	2 37	1 56	28 28	14 29	2 5	
S 31	17s34	13n59	2n10	17s34	1s59	20s12	3n 5	25n54	4n16	2s52	1n25	10s15	1s36	17s18	0n22	22n11	1s13	4n29	17n10	2s39	1s58	28s28	14n29	2s 5	

ASTRODIENST EPHEMERIS for the year 2230

geocentric

FEBRUARY 2230

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	8 43 16	11 ³⁶ 18	12 ⁴⁴ 44	18 ⁵⁴ 54	25 ¹⁸ 18	21 ¹⁵ 15	10 ³⁰ 30	7 ³³ 33	19 ⁴⁵ 45	0 ⁹ 9	0 ²⁹ 29	23 ¹⁶ 16	25 ¹⁶ 16	15 ³³ 33	M 1	
T 2	8 47 13	12 ³⁷ 14	26 ²⁶ 26	20 ³⁹ 39	26 ²⁴ 24	20 ⁵⁷ 57	10 ²⁸ 28	7 ⁴⁰ 40	19 ⁴⁶ 46	0 ⁸ 8	0 ²⁹ 29	23 ¹⁶ 16	24 ⁵⁷ 57	25 ²² 22	T 2	
W 3	8 51 9	13 ³⁸ 09	9 ⁴² 42	22 ²⁴ 24	27 ²⁹ 29	20 ³⁹ 39	10 ²⁷ 27	7 ⁴⁷ 47	19 ⁴⁷ 47	0 ⁷ 7	0 ²⁹ 29	23 ¹⁷ 17	24 ⁵⁴ 54	25 ²⁹ 29	W 3	
T 4	8 55 6	14 ³⁹ 03	22 ³² 32	24 ¹⁰ 10	28 ³⁵ 35	20 ²³ 23	10 ²⁵ 25	7 ⁵⁴ 54	19 ⁴⁸ 48	0 ⁶ 6	0 ²⁹ 29	23 ¹⁸ 18	24 ⁵¹ 51	25 ³⁶ 36	T 4	
F 5	8 59 3	15 ³⁹ 57	5 ¹¹ 11	25 ⁵⁵ 55	29 ⁴² 42	20 ⁷ 7	10 ²³ 23	8 ¹ 1	19 ⁴⁹ 49	0 ⁵ 5	0 ²⁹ 29	23 ²⁰ 20	24 ⁴⁸ 48	25 ⁴³ 43	F 5	
S 6	9 2 59	16 ⁴⁰ 51	17 ¹⁴ 14	27 ⁴⁰ 40	0 ³⁸ 38	19 ⁵¹ 51	10 ²¹ 21	8 ⁸ 8	19 ⁵⁰ 50	0 ⁴ 4	0 ²⁹ 29	23 ²⁰ 20	24 ⁴⁵ 45	25 ⁴⁹ 49	S 6	
S 7	9 6 56	17 ⁴¹ 43	29 ¹⁵ 15	29 ²⁵ 25	1 ⁵⁵ 55	19 ³⁷ 37	10 ¹⁸ 18	8 ¹⁵ 15	19 ⁵¹ 51	0 ³ 3	0 ²⁸ 28	23 ²⁰ 20	24 ⁴¹ 41	25 ⁵⁶ 56	S 7	
M 8	9 10 52	18 ⁴² 35	11 ¹⁸ 18	1 ¹⁸ 18	3 ¹ 1	19 ²³ 23	10 ¹⁶ 16	8 ²² 22	19 ⁵² 52	0 ² 2	0 ²⁸ 28	23 ¹⁷ 17	24 ³⁸ 38	26 ³ 3	M 8	
T 9	9 14 49	19 ⁴³ 26	22 ⁵⁹ 59	2 ⁵³ 53	4 ⁹ 9	19 ¹⁰ 10	10 ¹³ 13	8 ²⁹ 29	19 ⁵³ 53	0 ¹ 1	0 ²⁸ 28	23 ¹³ 13	24 ³⁵ 35	26 ¹⁰ 10	T 9	
W10	9 18 45	20 ⁴⁴ 15	4 ³⁵ 35	4 ³⁵ 35	5 ¹⁶ 16	18 ⁵⁸ 58	10 ¹⁰ 10	8 ³⁶ 36	19 ⁵⁴ 54	29 ¹¹ 11	0 ²⁸ 28	23 ⁸ 8	24 ³² 32	26 ¹⁶ 16	W10	
T 11	9 22 42	21 ⁴⁵ 04	16 ⁴⁹ 49	6 ¹⁶ 16	6 ²³ 23	18 ⁴⁷ 47	10 ⁷ 7	8 ⁴³ 43	19 ⁵⁴ 54	29 ⁵⁹ 59	0 ²⁷ 27	23 ² 2	24 ²⁹ 29	26 ²³ 23	T 11	
F 12	9 26 38	22 ⁴⁵ 52	28 ⁵⁵ 55	7 ⁵⁵ 55	7 ³¹ 31	18 ³⁶ 36	10 ⁴ 4	8 ⁵⁰ 50	19 ⁵⁵ 55	29 ⁵⁸ 58	0 ²⁷ 27	22 ⁵⁶ 56	24 ²⁵ 25	26 ³⁰ 30	F 12	
S 13	9 30 35	23 ⁴⁶ 39	11 ¹⁸ 18	9 ³² 32	8 ³⁸ 38	18 ²⁶ 26	10 ¹ 1	8 ⁵⁸ 58	19 ⁵⁶ 56	29 ⁵⁷ 57	0 ²⁷ 27	22 ⁵¹ 51	24 ²² 22	26 ³⁶ 36	S 13	
S 14	9 34 32	24 ⁴⁷ 24	23 ³⁵ 35	11 ⁶ 6	9 ⁴⁶ 46	18 ¹⁷ 17	9 ⁵⁷ 57	9 ⁵ 5	19 ⁵⁶ 56	29 ⁵⁶ 56	0 ²⁶ 26	22 ⁴⁷ 47	24 ¹⁹ 19	26 ⁴³ 43	S 14	
M15	9 38 28	25 ⁴⁸ 08	6 ¹² 12	12 ³⁷ 37	10 ⁵⁴ 54	18 ⁹ 9	9 ⁵³ 53	9 ¹² 12	19 ⁵⁷ 57	29 ⁵⁵ 55	0 ²⁶ 26	22 ⁴⁵ 45	24 ¹⁶ 16	26 ⁵⁰ 50	M15	
T 16	9 42 25	26 ⁴⁸ 51	19 ¹ 1	14 ⁴ 4	12 ³ 3	18 ¹ 1	9 ⁴⁹ 49	9 ¹⁹ 19	19 ⁵⁷ 57	29 ⁵⁵ 55	0 ²⁵ 25	22 ⁴³ 43	24 ¹³ 13	26 ⁵⁷ 57	T 16	
W17	9 46 21	27 ⁴⁹ 32	2 ¹¹ 11	15 ²⁶ 26	13 ¹¹ 11	17 ⁵⁵ 55	9 ⁴⁵ 45	9 ²⁶ 26	19 ⁵⁷ 57	29 ⁵⁴ 54	0 ²⁵ 25	22 ⁴⁴ 44	24 ¹⁰ 10	27 ³ 3	W17	
T 18	9 50 18	28 ⁵⁰ 12	15 ¹⁵ 15	16 ⁴³ 43	14 ¹⁹ 19	17 ⁴⁹ 49	9 ⁴¹ 41	9 ³⁴ 34	19 ⁵⁸ 58	29 ⁵³ 53	0 ²⁴ 24	22 ⁴⁵ 45	24 ⁶ 6	27 ¹⁰ 10	T 18	
F 19	9 54 14	29 ⁵⁰ 50	28 ⁴¹ 41	17 ⁵⁴ 54	15 ²⁸ 28	17 ⁴⁴ 44	9 ³⁷ 37	9 ⁴¹ 41	19 ⁵⁸ 58	29 ⁵² 52	0 ²⁴ 24	22 ⁴⁶ 46	24 ³ 3	27 ¹⁷ 17	F 19	
S 20	9 58 11	0 ⁵¹ 27	12 ²¹ 21	18 ⁵⁸ 58	16 ³⁷ 37	17 ⁴⁰ 40	9 ³² 32	9 ⁴⁸ 48	19 ⁵⁸ 58	29 ⁵² 52	0 ²³ 23	22 ⁴⁸ 48	24 ⁰ 0	27 ²⁴ 24	S 20	
S 21	10 2 7	1 ⁵² 01	26 ¹⁴ 14	19 ⁵⁵ 55	17 ⁴⁶ 46	17 ³⁶ 36	9 ²⁷ 27	9 ⁵⁵ 55	19 ⁵⁸ 58	29 ⁵¹ 51	0 ²³ 23	22 ⁴⁹ 49	23 ⁵⁷ 57	27 ³⁰ 30	S 21	
M22	10 6 4	2 ⁵² 34	10 ¹¹ 11	20 ⁴³ 43	18 ⁵⁵ 55	17 ³⁴ 34	9 ²² 22	10 ³ 3	19 ⁵⁸ 58	29 ⁵¹ 51	0 ²² 22	22 ⁴⁹ 49	23 ⁵⁴ 54	27 ³⁷ 37	M22	
T 23	10 10 1	3 ⁵³ 06	24 ³⁶ 36	21 ²⁴ 24	20 ⁴ 4	17 ³² 32	9 ¹⁷ 17	10 ¹⁰ 10	19 ⁵⁹ 59	29 ⁵⁰ 50	0 ²¹ 21	22 ⁴⁸ 48	23 ⁵¹ 51	27 ⁴⁴ 44	T 23	
W24	10 13 57	4 ⁵³ 35	9 ² 2	21 ⁵⁴ 54	21 ¹³ 13	17 ³¹ 31	9 ¹² 12	10 ¹⁷ 17	19 ⁵⁹ 59	29 ⁴⁹ 49	0 ²⁰ 20	22 ⁴⁶ 46	23 ⁴⁷ 47	27 ⁵⁰ 50	W24	
T 25	10 17 54	5 ⁵⁴ 03	23 ³³ 33	22 ¹⁶ 16	22 ²² 22	17 ³¹ 31	9 ⁷ 7	10 ²⁵ 25	19 ⁵⁸ 58	29 ⁴⁹ 49	0 ²⁰ 20	22 ⁴⁴ 44	23 ⁴⁴ 44	27 ⁵⁷ 57	T 25	
F 26	10 21 50	6 ⁵⁴ 28	8 ³ 3	22 ²⁷ 27	23 ³² 32	17 ³¹ 31	9 ¹ 1	10 ³² 32	19 ⁵⁸ 58	29 ⁴⁹ 49	0 ¹⁹ 19	22 ⁴¹ 41	23 ⁴¹ 41	28 ⁴ 4	F 26	
S 27	10 25 47	7 ⁵⁴ 52	22 ²⁷ 27	22 ²⁸ 28	24 ⁴¹ 41	17 ³² 32	8 ⁵⁵ 55	10 ³⁹ 39	19 ⁵⁸ 58	29 ⁴⁸ 48	0 ¹⁸ 18	22 ⁴⁰ 40	23 ³⁸ 38	28 ¹¹ 11	S 27	
S 28	10 29 43	8 ⁵⁵ 14	6 ³⁹ 39	22 ¹¹ 11	25 ³⁵ 35	17 ³⁴ 34	8 ⁵⁰ 50	10 ⁴⁶ 46	19 ⁵⁸ 58	29 ⁴⁸ 48	0 ¹⁷ 17	22 ³⁸ 38	23 ³⁵ 35	28 ¹⁷ 17	S 28	

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	17s17	7n39	0n57	16s59	1s56	20s18	3n 2	25n57	4n16	2s51	1n25	10s12	1s36	17s18	0n22	22n11	1s13	4n30	17n10	2s40	1s59	28s28	14n29	2s 5			
T 2	17 0	1 9	0s17	16 23	1 53	20 23	2 59	25 59	4 15	2 50	1 25	10 10	1 36	17 18	0 22	22 11	1 13	4 30	17 11	2 40	2 0	28 28	14 29	2 5			
W 3	16 43	5s11	1 28	15 45	1 49	20 28	2 56	26 1	4 14	2 49	1 25	10 7	1 36	17 19	0 22	22 11	1 13	4 31	17 12	2 40	2 1	28 29	14 30	2 5			
T 4	16 25	11 7	2 32	15 6	1 45	20 32	2 53	26 2	4 13	2 48	1 26	10 5	1 36	17 19	0 22	22 12	1 13	4 31	17 12	2 39	2 3	28 29	14 30	2 5			
F 5	16 7	16 26	3 27	14 25	1 39	20 35	2 49	26 4	4 12	2 47	1 26	10 2	1 36	17 19	0 22	22 12	1 13	4 32	17 13	2 39	2 4	28 29	14 30	2 5			
S 6	15 49	20 59	4 12	13 44	1 34	20 39	2 46	26 5	4 11	2 46	1 26	9 59	1 36	17 19	0 22	22 12	1 13	4 33	17 13	2 38	2 5	28 29	14 30	2 5			
S 7	15 31	24 35	4 44	13 1	1 27	20 42	2 42	26 6	4 10	2 45	1 26	9 57	1 36	17 20	0 22	22 12	1 13	4 33	17 14	2 39	2 6	28 29	14 30	2 5			
M 8	15 12	27 6	5 4	12 18	1 20	20 44	2 39	26 7	4 9	2 44	1 27	9 54	1 36	17 20	0 22	22 12	1 13	4 34	17 14	2 40	2 8	28 30	14 31	2 5			
T 9	14 53	28 24	5 11	11 33	1 12	20 46	2 35	26 8	4 7	2 43	1 27	9 51	1 36	17 20	0 22	22 12	1 13	4 34	17 15	2 41	2 9	28 30	14 31	2 5			
W10	14 34	28 24	5 5	10 48	1 3	20 47	2 32	26 8	4 6	2 41	1 27	9 49	1 36	17 20	0 22	22 12	1 13	4 35	17 16	2 43	2 10	28 30	14 31	2 5			
T 11	14 14	27 4	4 45	10 2	0 54	20 48	2 28	26 8	4 5	2 40	1 27	9 46	1 36	17 20	0 22	22 12	1 13	4 36	17 16	2 46	2 11	28 30	14 32	2 4			
F 12	13 55	24 28	4 12	9 16	0 44	20 48	2 24	26 8	4 3	2 38	1 28	9 43	1 36	17 21	0 22	22 12	1 13	4 36	17 17	2 48	2 13	28 30	14 32	2 4			
S 13	13 35	20 44	3 28	8 30	0 33	20 48	2 20	26 8	4 2	2 37	1 28	9 41	1 36	17 21	0 22	22 12	1 13	4 37	17 17	2 50	2 14	28 30	14 32	2 4			
S 14	13 15	16 3	2 33	7 43	0 21	20 47	2 16	26 8	4 0	2 35	1 28	9 38	1 36	17 21	0 22	22 12	1 13	4 37	17 18	2 52	2 15	28 31	14 33	2 4			
M15	12 54	10 37	1 29	6 57	0 9	20 46	2 13	26 8	3 59	2 33	1 28	9 35	1 36	17 21	0 22	22 12	1 13	4 38	17 18	2 53	2 17	28 31	14 33	2 4			
T 16	12 34	4 39	0 20	6 12	0n 4	20 44	2 9	26 7	3 57	2 32	1 29	9 33	1 36	17 21	0 22	22 12	1 13	4 39	17 19	2 53	2 18	28 31	14 34	2 4			
W17	12 13	1n35	0n51	5 28	0 18	20 41	2 5	26 6	3 56	2 30	1 29	9 30	1 36	17 21	0 22	22 12	1 13	4 39	17 19	2 53	2 19	28 31	14 34	2 4			
T 18	11 52	7 51	2 1	4 45	0 32	20 38	2 1	26 6	3 54	2 28	1 29	9 27	1 36	17 21	0 22	22 12	1 13	4 40	17 20	2 52	2 20	28 31	14 35	2 4			
F 19	11 31	13 53	3 5	4 4	0 47	20 35	1 57	26 5	3 52	2 26	1 29	9 25	1 36	17 21	0 22	22 12	1 13	4 41	17 20	2 52	2 22	28 31	14 35	2 4			
S 20	11 9	19 20	4 0	3 25	1 2	20 31	1 53	26 3	3 51	2 24	1 30	9 22	1 36	17 21	0 22	22 12	1 13	4 41	17 21	2 51	2 23	28 31	14 35	2 4			
S 21	10 48	23 51	4 42	2 49	1 17	20 26	1 49	26 2	3 49	2 22	1 30	9 19	1 36	17 21	0 22	22 12	1 12	4 42	17 21	2 51	2 24	28 31	14 36	2 4			
M22	10 26	27 2	5 8	2 15	1 33	20 21	1 45	26 1	3 47	2 20	1 30	9 16	1 36	17 21	0 22	22 12	1 12	4 43	17 22	2 51	2 25	28 31	14 36	2 4			
T 23	10 4	28 33	5 15	1 45	1 48	20 15	1 41	25 59	3 45	2 18	1 30	9 14	1 36	17 21	0 22	22 12	1 12	4 44	17 22	2 51	2 27	28 32	14 37	2 4			
W24	9 42	28 8	5 2	1 19	2 3	20 9	1 36	25 58	3 44	2 15	1 30	9 11	1 36	17 21	0 22	22 12	1 12	4 44	17 23	2 52	2 28	28 32	14 38	2 4			
T 25	9 20	25 48	4 31	0 57	2 18	20 2	1 32	25 56	3 42	2 13	1 31	9 8	1 36	17 21	0 22	22 12	1 12	4 45	17 23	2 53	2 29	28 32	14 38	2 4			
F 26	8 58	21 48	3 42	0 39	2 33	19 55	1 28	25 54	3 40	2 11	1 31	9 6	1 36	17 21	0 22	22 12	1 12	4 46	17 24	2 54	2 30	28 32	14 39	2 4			
S 27	8 36	16 31	2 39	0 26	2 46	19 47	1 24	25 52	3 38	2 8	1 31	9 3	1 36	17 21	0 22	22 13	1 12	4 46	17 24	2 55	2 32	28 32	14 39	2 4			
S 28	8s13	10n25	1n27	0s18	2n59	19s39	1n20	25n50	3n37	2s 6	1n31	9s 0	1s36	17s21	0n22	22n13	1s12	4n47	17n25	2s55	2s33	28s32	14n40	2s 5			

ASTRODIENST EPHEMERIS for the year 2230
geocentric

MARCH 2230

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	10 33 40	9♂55'35	20♂34	22°R 1	27♂ 1	17♂37	8°R44	10♂54	19°R58	29°R47	0°R16	22°D38	23♂31	28♂24	16♂ 9	M 1
T 2	10 37 36	10°55'54	4♂10	21♂33	28°11	17°40	8♂38	11° 1	19♂57	29♂47	0♂15	22♂38	23°28	28°31	16°11	T 2
W 3	10 41 33	11°56'11	17°24	20°57	29°21	17°44	8°31	11° 8	19°57	29°47	0°14	22°39	23°25	28°37	16°13	W 3
T 4	10 45 30	12°56'27	0♂16	20°13	0♂31	17°49	8°25	11°16	19°56	29°46	0°13	22°40	23°22	28°44	16°16	T 4
F 5	10 49 26	13°56'41	12°49	19°22	1°41	17°54	8°19	11°23	19°56	29°46	0°12	22°41	23°19	28°51	16°18	F 5
S 6	10 53 23	14°56'54	25° 6	18°27	2°51	18° 0	8°12	11°30	19°55	29°46	0°11	22°41	23°16	28°58	16°20	S 6
S 7	10 57 19	15°57'05	7♂10	17°28	4° 1	18° 6	8° 6	11°38	19°55	29°46	0°10	22°42	23°12	29° 4	16°22	S 7
M 8	11 1 16	16°57'15	19° 6	16°26	5°12	18°14	7°59	11°45	19°54	29°46	0° 9	22°R42	23° 9	29°11	16°25	M 8
T 9	11 5 12	17°57'23	0♂59	15°24	6°22	18°22	7°52	11°52	19°53	29°46	0° 8	22°42	23° 6	29°18	16°27	T 9
W10	11 9 9	18°57'30	12°52	14°22	7°33	18°30	7°45	12° 0	19°53	29°46	0° 7	22°42	23° 3	29°25	16°30	W10
T 11	11 13 5	19°57'35	24°52	13°23	8°43	18°39	7°38	12° 7	19°52	29°D46	0° 6	22°41	23° 0	29°31	16°32	T 11
F 12	11 17 2	20°57'38	7♂ 1	12°27	9°54	18°49	7°31	12°14	19°51	29°46	0° 5	22°41	22°57	29°38	16°35	F 12
S 13	11 20 59	21°57'40	19°22	11°35	11° 5	18°59	7°24	12°21	19°50	29°46	0° 3	22°41	22°53	29°45	16°38	S 13
S 14	11 24 55	22°57'40	1♂59	10°48	12°16	19°10	7°16	12°29	19°49	29°46	0° 2	22°D41	22°50	29°51	16°40	S 14
M15	11 28 52	23°57'38	14°52	10° 6	13°27	19°21	7° 9	12°36	19°48	29°46	0° 1	22°41	22°47	29°58	16°43	M15
T 16	11 32 48	24°57'34	28° 2	9°31	14°38	19°33	7° 2	12°43	19°47	29°46	29°59	22°R41	22°44	0♂ 5	16°46	T 16
W17	11 36 45	25°57'29	11♂28	9° 2	15°49	19°46	6°54	12°50	19°46	29°46	29°58	22°41	22°41	0°12	16°49	W17
T 18	11 40 41	26°57'21	25° 8	8°40	17° 0	19°59	6°47	12°58	19°45	29°46	29°57	22°40	22°37	0°18	16°51	T 18
F 19	11 44 38	27°57'11	9♂ 0	8°24	18°11	20°12	6°39	13° 5	19°44	29°47	29°56	22°40	22°34	0°25	16°54	F 19
S 20	11 48 34	28°57'00	23° 1	8°15	19°22	20°26	6°31	13°12	19°42	29°47	29°54	22°39	22°31	0°32	16°57	S 20
S 21	11 52 31	29°56'46	7♂ 9	8°D12	20°33	20°40	6°24	13°19	19°41	29°47	29°53	22°38	22°28	0°38	17° 0	S 21
M22	11 56 28	0♂56'29	21°21	8°15	21°45	20°55	6°16	13°26	19°40	29°47	29°52	22°38	22°25	0°45	17° 3	M22
T 23	12 0 24	1°56'11	5♂33	8°23	22°56	21°11	6° 8	13°33	19°38	29°48	29°50	22°D38	22°22	0°52	17° 6	T 23
W24	12 4 21	2°55'50	19°45	8°37	24° 7	21°27	6° 1	13°40	19°37	29°48	29°49	22°38	22°18	0°59	17° 9	W24
T 25	12 8 17	3°55'27	3♂52	8°57	25°19	21°43	5°53	13°47	19°35	29°49	29°47	22°39	22°15	1° 5	17°13	T 25
F 26	12 12 14	4°55'02	17°55	9°21	26°30	22° 0	5°45	13°54	19°34	29°49	29°46	22°40	22°12	1°12	17°16	F 26
S 27	12 16 10	5°54'34	1♂49	9°50	27°42	22°17	5°37	14° 1	19°32	29°50	29°44	22°41	22° 9	1°19	17°19	S 27
S 28	12 20 7	6°54'04	15°32	10°24	28°53	22°34	5°30	14° 8	19°31	29°50	29°43	22°42	22° 6	1°26	17°22	S 28
M29	12 24 3	7°53'32	29° 4	11° 1	0♂ 5	22°52	5°22	14°15	19°29	29°51	29°41	22°R42	22° 2	1°32	17°25	M29
T 30	12 28 0	8°52'58	12♂21	11°43	1°16	23°11	5°14	14°22	19°27	29°52	29°40	22°41	21°59	1°39	17°29	T 30
W31	12 31 57	9♂52'22	25♂22	12♂28	2♂28	23♂29	5♂ 6	14♂29	19♂26	29♂52	29♂38	22♂39	21♂56	1♂46	17♂32	W31

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
M 1	7s50	3n54	0n11	0s15	3n10	19s30	1n16	25n48	3n35	2s 3	1n31	8s57	1s36	17s21	0n22	22n13
T 2	7 28	2s37	1s 3	0 17	3 20	19 20	1 12	25 46	3 33	2 1	1 32	8 55	1 36	17 21	0 22	22 13
W 3	7 5	8 52	2 13	0 23	3 28	19 10	1 8	25 44	3 31	1 58	1 32	8 52	1 36	17 21	0 22	22 13
T 4	6 42	14 34	3 14	0 35	3 35	18 59	1 3	25 41	3 29	1 56	1 32	8 49	1 36	17 21	0 22	22 13
F 5	6 19	19 32	4 3	0 51	3 39	18 48	0 59	25 39	3 28	1 53	1 32	8 46	1 36	17 21	0 22	22 13
S 6	5 55	23 34	4 41	1 10	3 41	18 36	0 55	25 36	3 26	1 50	1 32	8 44	1 36	17 21	0 22	22 13
S 7	5 32	26 30	5 5	1 33	3 41	18 24	0 51	25 33	3 24	1 48	1 32	8 41	1 37	17 20	0 22	22 13
M 8	5 9	28 13	5 16	1 59	3 39	18 11	0 47	25 31	3 22	1 45	1 32	8 38	1 37	17 20	0 22	22 13
T 9	4 45	28 38	5 13	2 27	3 34	17 58	0 43	25 28	3 20	1 42	1 33	8 35	1 37	17 20	0 22	22 13
W10	4 22	27 43	4 57	2 57	3 28	17 44	0 39	25 25	3 19	1 39	1 33	8 33	1 37	17 20	0 22	22 13
T 11	3 58	25 32	4 28	3 27	3 20	17 30	0 35	25 22	3 17	1 36	1 33	8 30	1 37	17 20	0 22	22 13
F 12	3 35	22 9	3 47	3 57	3 10	17 15	0 31	25 19	3 15	1 33	1 33	8 27	1 37	17 19	0 22	22 13
S 13	3 11	17 45	2 54	4 27	2 59	17 0	0 27	25 16	3 13	1 30	1 33	8 25	1 37	17 19	0 22	22 13
S 14	2 47	12 30	1 52	4 56	2 47	16 44	0 23	25 12	3 12	1 27	1 33	8 22	1 37	17 19	0 22	22 13
M15	2 24	6 37	0 43	5 24	2 34	16 28	0 19	25 9	3 10	1 24	1 33	8 19	1 37	17 18	0 22	22 13
T 16	2 0	0 20	0n30	5 50	2 20	16 11	0 15	25 6	3 8	1 21	1 33	8 16	1 37	17 18	0 22	22 13
W17	1 36	6n 6	1 42	6 14	2 6	15 54	0 12	25 2	3 6	1 18	1 33	8 14	1 37	17 18	0 22	22 13
T 18	1 13	12 21	2 50	6 36	1 51	15 36	0 8	24 58	3 5	1 15	1 34	8 11	1 37	17 18	0 22	22 13
F 19	0 49	18 6	3 49	6 55	1 36	15 18	0 4	24 55	3 3	1 12	1 34	8 8	1 37	17 17	0 22	22 13
S 20	0 25	22 57	4 35	7 12	1 22	14 59	0 0	24 51	3 1	1 9	1 34	8 6	1 38	17 17	0 22	22 14
S 21	0 1	26 29	5 5	7 27	1 7	14 40	0s 3	24 47	3 0	1 6	1 34	8 3	1 38	17 17	0 22	22 14
M22	0n22	28 24	5 16	7 40	0 52	14 21	0 7	24 43	2 58	1 3	1 34	8 0	1 38	17 16	0 22	22 14
T 23	0 46	28 26	5 9	7 50	0 38	14 1	0 10	24 39	2 56	1 0	1 34	7 58	1 38	17 16	0 22	22 14
W24	1 10	26 37	4 42	7 57	0 24	13 41	0 14	24 35	2 55	0 57	1 34	7 55	1 38	17 15	0 22	22 14
T 25	1 33	23 7	3 58	8 2	0 11	13 20	0 17	24 31	2 53	0 54	1 34	7 53	1 38	17 15	0 23	22 14
F 26	1 57	18 19	3 1	8 5	0s 2	12 59	0 21	24 26	2 52	0 51	1 34	7 50	1 38	17 15	0 23	22 14
S 27	2 21	12 35	1 53	8 6	0 15	12 38	0 24	24 22	2 50	0 47	1 34	7 47	1 38	17 14	0 23	22 14
S 28	2 44	6 18	0 39	8 4	0 27	12 16	0 27	24 17	2 48	0 44	1 34	7 45	1 38	17 14	0 23	22 14
M29	3 8	0s10	0s35	8 1	0 38	11 54	0 31	24 13	2 47	0 41	1 34	7 42	1 38	17 13	0 23	22 14
T 30	3 31	6 30	1 46	7 55	0 49	11 32	0 34	24 8	2 45	0 38	1 34	7 40	1 39	17 13	0 23	22 14
W31	3n54	12s27	2s51	7s48	1s 0	11s 9	0s37	24n 4	2n44	0s35	1n34	7s37	1s39	17s12	0n23	22n14

Julian Day Number = 2535609.5, Delta T = 195.52 sec
Ecliptic obliquity = 23°24'43, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°57'25, Lahiri = 27°04'25

ASTRODIENST EPHEMERIS for the year 2230
geocentric

APRIL 2230

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 35 53	10°51'44	8° 8	13°17	3°40	23°49	4°R59	14°36	19°R24	29°II53	29°R37	22°R37	21°53	1°52	17°35	T 1
F 2	12 39 50	11°51'04	20°38	14° 9	4°52	24° 8	4°51	14°43	19°M22	29°54	29°A35	22°H34	21°50	1°59	17°39	F 2
S 3	12 43 46	12°50'22	2°54	15° 4	6° 3	24°28	4°43	14°49	19°20	29°54	29°33	22°31	21°47	2° 6	17°42	S 3
S 4	12 47 43	13°49'38	14°59	16° 2	7°15	24°48	4°36	14°56	19°18	29°55	29°32	22°28	21°43	2°13	17°46	S 4
M 5	12 51 39	14°48'53	26°56	17° 3	8°27	25° 9	4°28	15° 3	19°17	29°56	29°30	22°26	21°40	2°19	17°49	M 5
T 6	12 55 36	15°48'06	8°349	18° 6	9°39	25°29	4°21	15°10	19°15	29°57	29°29	22°24	21°37	2°26	17°53	T 6
W 7	12 59 32	16°47'17	20°42	19°12	10°51	25°51	4°13	15°16	19°13	29°58	29°27	22°D24	21°34	2°33	17°56	W 7
T 8	13 3 29	17°46'26	2°41	20°21	12° 3	26°12	4° 6	15°23	19°11	29°59	29°25	22°25	21°31	2°39	18° 0	T 8
F 9	13 7 26	18°45'34	14°51	21°31	13°15	26°34	3°58	15°29	19° 9	29°59	29°24	22°26	21°28	2°46	18° 4	F 9
S 10	13 11 22	19°44'40	27°14	22°44	14°27	26°56	3°51	15°36	19° 7	0°5 0	29°22	22°28	21°24	2°53	18° 7	S 10
S 11	13 15 19	20°43'44	9°56	23°59	15°39	27°18	3°44	15°42	19° 4	0° 1	29°20	22°30	21°21	3° 0	18°11	S 11
M12	13 19 15	21°42'46	23° 0	25°16	16°51	27°41	3°37	15°49	19° 2	0° 2	29°19	22°R30	21°18	3° 6	18°15	M12
T 13	13 23 12	22°41'46	6°Y25	26°35	18° 3	28° 4	3°30	15°55	19° 0	0° 4	29°17	22°29	21°15	3°13	18°18	T 13
W14	13 27 8	23°40'44	20°13	27°56	19°16	28°27	3°23	16° 1	18°58	0° 5	29°15	22°27	21°12	3°20	18°22	W14
T 15	13 31 5	24°39'40	4°19	29°19	20°28	28°51	3°16	16° 8	18°56	0° 6	29°14	22°23	21° 8	3°26	18°26	T 15
F 16	13 35 1	25°38'34	18°40	0°Y43	21°40	29°15	3° 9	16°14	18°53	0° 7	29°12	22°19	21° 5	3°33	18°30	F 16
S 17	13 38 58	26°37'27	3°II10	2° 9	22°52	29°39	3° 2	16°20	18°51	0° 8	29°10	22°14	21° 2	3°40	18°33	S 17
S 18	13 42 54	27°36'17	17°43	3°37	24° 4	0°Ω 3	2°56	16°26	18°49	0° 9	29° 8	22° 9	20°59	3°47	18°37	S 18
M19	13 46 51	28°35'05	2°52	5° 7	25°17	0°28	2°50	16°32	18°47	0°11	29° 7	22° 5	20°56	3°53	18°41	M19
T 20	13 50 48	29°33'50	16°33	6°39	26°29	0°53	2°43	16°38	18°44	0°12	29° 5	22° 3	20°53	4° 0	18°45	T 20
W21	13 54 44	0°32'34	0°Ω43	8°12	27°41	1°18	2°37	16°44	18°42	0°13	29° 3	22°D 2	20°49	4° 7	18°49	W21
T 22	13 58 41	1°31'15	14°40	9°47	28°54	1°43	2°31	16°50	18°40	0°14	29° 2	22° 2	20°46	4°14	18°53	T 22
F 23	14 2 37	2°29'53	28°24	11°23	0°Y 6	2° 9	2°25	16°56	18°37	0°16	29° 0	22° 4	20°43	4°20	18°56	F 23
S 24	14 6 34	3°28'30	11°Y55	13° 1	1°18	2°35	2°19	17° 2	18°35	0°17	28°58	22° 5	20°40	4°27	19° 0	S 24
S 25	14 10 30	4°27'04	25°13	14°41	2°31	3° 1	2°14	17° 8	18°32	0°19	28°57	22°R 5	20°37	4°34	19° 4	S 25
M26	14 14 27	5°25'36	8°A20	16°23	3°43	3°27	2° 8	17°14	18°30	0°20	28°55	22° 4	20°34	4°40	19° 8	M26
T 27	14 18 23	6°24'07	21°15	18° 6	4°55	3°53	2° 3	17°19	18°27	0°21	28°53	22° 1	20°30	4°47	19°12	T 27
W28	14 22 20	7°22'35	3°M58	19°51	6° 8	4°20	1°57	17°25	18°25	0°23	28°52	21°55	20°27	4°54	19°16	W28
T 29	14 26 17	8°21'01	16°30	21°37	7°20	4°47	1°52	17°30	18°22	0°24	28°50	21°48	20°24	5° 1	19°20	T 29
F 30	14 30 13	9°19'26	28°M51	23°Y25	8°Y33	5°Ω14	1°A47	17°H36	18°M20	0°26	28°A48	21°H39	20°H21	5°Z 7	19°B24	F 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	4n18	17s45	3s45	7s38	1s10	10s46	0s40	23n59	2n42	0s32	1n34	7s35	1s39	17s12	0n23	22n14	1s11	5n11	17n36	2s56	3s13	28s28	15n 5	2s 3			
F 2	4 41	22 11	4 27	7 27	1 19	10 23	0 43	23 54	2 41	0 29	1 34	7 32	1 39	17 11	0 23	22 14	1 11	5 11	17 36	2 57	3 14	28 28	15 6	2 3			
S 3	5 4	25 33	4 56	7 14	1 28	9 59	0 46	23 49	2 39	0 26	1 34	7 30	1 39	17 11	0 23	22 14	1 11	5 12	17 36	2 58	3 15	28 27	15 7	2 3			
S 4	5 27	27 44	5 12	6 59	1 36	9 35	0 49	23 44	2 38	0 23	1 34	7 27	1 39	17 10	0 23	22 14	1 10	5 13	17 36	2 59	3 17	28 27	15 8	2 3			
M 5	5 50	28 36	5 13	6 42	1 44	9 11	0 51	23 38	2 36	0 20	1 34	7 25	1 39	17 10	0 23	22 14	1 10	5 14	17 36	3 0	3 18	28 27	15 9	2 3			
T 6	6 13	28 8	5 2	6 24	1 51	8 47	0 54	23 33	2 35	0 17	1 34	7 22	1 39	17 9	0 23	22 14	1 10	5 14	17 37	3 1	3 19	28 27	15 10	2 3			
W 7	6 35	26 23	4 37	6 4	1 58	8 22	0 57	23 28	2 33	0 14	1 34	7 20	1 40	17 9	0 23	22 14	1 10	5 15	17 37	3 1	3 20	28 26	15 11	2 3			
T 8	6 58	23 26	4 0	5 43	2 4	7 57	0 59	23 22	2 32	0 11	1 34	7 17	1 40	17 8	0 23	22 14	1 10	5 16	17 37	3 0	3 22	28 26	15 12	2 3			
F 9	7 20	19 25	3 12	5 20	2 9	7 32	1 2	23 17	2 30	0 9	1 34	7 15	1 40	17 8	0 23	22 14	1 10	5 16	17 37	3 0	3 23	28 26	15 13	2 3			
S 10	7 43	14 31	2 14	4 56	2 15	7 6	1 4	23 11	2 29	0 6	1 34	7 12	1 40	17 7	0 23	22 15	1 10	5 17	17 37	2 59	3 24	28 25	15 14	2 3			
S 11	8 5	8 53	1 8	4 31	2 19	6 41	1 7	23 5	2 28	0 3	1 34	7 10	1 40	17 6	0 23	22 15	1 10	5 18	17 37	2 59	3 25	28 25	15 15	2 3			
M12	8 27	2 44	0n 3	4 4	2 23	6 15	1 9	22 59	2 26	0 0	1 33	7 8	1 40	17 6	0 23	22 15	1 10	5 18	17 37	2 58	3 27	28 25	15 16	2 3			
T 13	8 49	3n42	1 15	3 36	2 27	5 49	1 11	22 53	2 25	0n 2	1 33	7 5	1 40	17 5	0 23	22 15	1 10	5 19	17 37	2 59	3 28	28 24	15 17	2 4			
W14	9 11	10 8	2 26	3 7	2 30	5 22	1 13	22 47	2 23	0 5	1 33	7 3	1 41	17 5	0 23	22 15	1 10	5 19	17 37	2 59	3 29	28 24	15 18	2 4			
T 15	9 33	16 13	3 28	2 36	2 32	4 56	1 15	22 41	2 22	0 8	1 33	7 1	1 41	17 4	0 23	22 15	1 10	5 20	17 37	3 1	3 30	28 24	15 19	2 4			
F 16	9 54	21 31	4 19	2 4	2 34	4 29	1 17	22 35	2 21	0 10	1 33	6 58	1 41	17 4	0 23	22 15	1 10	5 21	17 38	3 3	3 32	28 23	15 20	2 4			
S 17	10 15	25 34	4 54	1 31	2 35	4 3	1 19	22 28	2 19	0 13	1 33	6 56	1 41	17 3	0 23	22 15	1 10	5 21	17 38	3 5	3 33	28 23	15 21	2 4			
S 18	10 37	27 59	5 10	0 57	2 36	3 36	1 21	22 22	2 18	0 15	1 33	6 54	1 41	17 2	0 23	22 15	1 10	5 22	17 38	3 7	3 34	28 22	15 22	2 4			
M19	10 58	28 30	5 6	0 22	2 36	3 9	1 23	22 15	2 17	0 18	1 33	6 52	1 41	17 2	0 23	22 15	1 10	5 22	17 38	3 8	3 35	28 22	15 23	2 4			
T 20	11 18	27 4	4 43	0n14	2 36	2 42	1 25	22 9	2 15	0 20	1 33	6 50	1 41	17 1	0 23	22 15	1 10	5 23	17 38	3 9	3 37	28 22	15 24	2 4			
W21	11 39	23 56	4 3	0 52	2 36	2 14	1 26	22 2	2 14	0 23	1 32	6 47	1 42	17 0	0 23	22 15	1 10	5 23	17 38	3 9	3 38	28 21	15 25	2 4			
T 22	11 59	19 26	3 9	1 30	2 34	1 47	1 28	21 55	2 13	0 25	1 32	6 45	1 42	17 0	0 23	22 15	1 10	5 24	17 38	3 9	3 39	28 21	15 26	2 4			
F 23	12 20	13 58	2 5	2 9	2 33	1 20	1 29	21 48	2 12	0 27	1 32	6 43	1 42	16 59	0 23	22 15	1 10	5 25	17 38	3 9	3 40	28 20	15 27	2 4			
S 24	12 40	7 56	0 55	2 50	2 30	0 52	1 31	21 41	2 10	0 29	1 32	6 41	1 42	16 58	0 23	22 15	1 10	5 25	17 37	3 8	3 42	28 20	15 28	2 4			
S 25	12 59	1 38	0s17	3 31	2 28	0 25	1 32	21 33	2 9	0 31	1 32	6 39	1 42	16 58	0 23	22 15	1 10	5 26	17 37	3 8	3 43	28 19	15 29	2 4			
M26	13 19	4s38	1 27	4 13	2 24	0n 3	1 33	21 26	2 8	0 33	1 32	6 37	1 42	16 57	0 23	22 15	1 9	5 26	17 37	3 9	3 44	28 19	15 30	2 4			
T 27	13 38	10 37	2 31	4 55	2 21	0 31	1 34	21 19	2 7	0 35	1 32	6 35	1 43	16 56	0 23	22 15	1 9	5 27	17 37	3 10	3 45	28 19	15 31	2 4			
W28	13 57	16 4	3 26	5 39	2 16	0 58	1 35	21 11	2 6	0 37	1 31	6 33	1 43	16 56	0 23	22 15	1 9	5 27	17 37	3 12	3 47	28 18	15 32	2 4			
T 29	14 16	20 45	4 11	6 23	2 11	1 26	1 36	21 3	2 4	0 39	1 31	6 31	1 43	16 55	0 23	22 15	1 9	5 28	17 37	3 15	3 48	28 18	15 33	2 4			
F 30	14n35	24s29	4s43	7n 8	2s 6	1n54	1s37	20n56	2n 3	0n41	1n31	6s29	1s43	16s54	0n23	22n15	1s 9	5n28	17n37	3s18	3s49	28s17	15n34	2s 4			

ASTRODIENST EPHEMERIS for the year 2230

geocentric

MAY 2230

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 34 10	10♈1749	11♉2	25♊15	9♋45	5♌41	1♍R42	17♎41	18♏R18	0♐27	28♑R47	21°R30	20♓18	5♈14	19♉28	S 1
S 2	14 38 6	11°16'10	23° 3	27° 7	10°58	6° 8	1♌38	17°47	18♎15	0°29	28♑45	21♒22	20°14	5°21	19°32	S 2
M 3	14 42 3	12°14'30	4♈59	29° 0	12°10	6°36	1°33	17°52	18°12	0°31	28°43	21°14	20°11	5°27	19°36	M 3
T 4	14 45 59	13°12'48	16°51	0♈55	13°23	7° 4	1°29	17°57	18°10	0°32	28°42	21° 9	20° 8	5°34	19°40	T 4
W 5	14 49 56	14°11'04	28°43	2°52	14°35	7°32	1°25	18° 2	18° 7	0°34	28°40	21° 5	20° 5	5°41	19°44	W 5
T 6	14 53 52	15° 9'19	10♈40	4°50	15°48	8° 0	1°21	18° 7	18° 5	0°36	28°38	21°D 4	20° 2	5°48	19°48	T 6
F 7	14 57 49	16° 7'32	22°47	6°50	17° 0	8°28	1°17	18°12	18° 2	0°37	28°37	21° 4	19°59	5°54	19°52	F 7
S 8	15 1 46	17° 5'44	5♉9	8°52	18°13	8°57	1°13	18°17	18° 0	0°39	28°35	21° 5	19°55	6° 1	19°56	S 8
S 9	15 5 42	18° 3'55	17°51	10°55	19°25	9°25	1°10	18°22	17°57	0°41	28°34	21°R 5	19°52	6° 8	20° 0	S 9
M10	15 9 39	19° 2'03	0♊56	13° 0	20°38	9°54	1° 6	18°27	17°55	0°42	28°32	21° 5	19°49	6°14	20° 4	M10
T 11	15 13 35	20° 0'11	14°28	15° 6	21°51	10°23	1° 3	18°32	17°52	0°44	28°31	21° 3	19°46	6°21	20° 8	T 11
W12	15 17 32	20°58'17	28°27	17°13	23° 3	10°52	1° 0	18°36	17°50	0°46	28°29	20°58	19°43	6°28	20°12	W12
T 13	15 21 28	21°56'22	12♈51	19°22	24°16	11°21	0°57	18°41	17°47	0°48	28°28	20°51	19°40	6°35	20°16	T 13
F 14	15 25 25	22°54'25	27°34	21°31	25°28	11°51	0°55	18°45	17°45	0°50	28°26	20°42	19°36	6°41	20°21	F 14
S 15	15 29 21	23°52'26	12♉30	23°41	26°41	12°20	0°52	18°50	17°42	0°52	28°25	20°33	19°33	6°48	20°25	S 15
S 16	15 33 18	24°50'26	27°28	25°52	27°54	12°50	0°50	18°54	17°40	0°53	28°23	20°24	19°30	6°55	20°29	S 16
M17	15 37 15	25°48'24	12♊19	28° 3	29° 6	13°20	0°48	18°58	17°37	0°55	28°22	20°16	19°27	7° 2	20°33	M17
T 18	15 41 11	26°46'21	26°57	0♊14	0♋19	13°50	0°46	19° 3	17°35	0°57	28°20	20°10	19°24	7° 8	20°37	T 18
W19	15 45 8	27°44'15	11♊17	2°24	1°32	14°20	0°44	19° 7	17°32	0°59	28°19	20° 7	19°20	7°15	20°41	W19
T 20	15 49 4	28°42'08	25°16	4°34	2°45	14°51	0°43	19°11	17°30	1° 1	28°17	20°D 6	19°17	7°22	20°45	T 20
F 21	15 53 1	29°39'59	8♋54	6°44	3°57	15°21	0°41	19°15	17°27	1° 3	28°16	20° 7	19°14	7°28	20°49	F 21
S 22	15 56 57	0♋37'48	22°13	8°52	5°10	15°52	0°40	19°19	17°25	1° 5	28°15	20°R 7	19°11	7°35	20°53	S 22
S 23	16 0 54	1°35'35	5♌15	10°59	6°23	16°22	0°39	19°22	17°22	1° 7	28°13	20° 6	19° 8	7°42	20°57	S 23
M24	16 4 51	2°33'21	18° 4	13° 4	7°35	16°53	0°38	19°26	17°20	1° 9	28°12	20° 3	19° 5	7°49	21° 1	M24
T 25	16 8 47	3°31'05	0♍40	15° 7	8°48	17°24	0°38	19°30	17°17	1°11	28°11	19°57	19° 1	7°55	21° 5	T 25
W26	16 12 44	4°28'48	13° 6	17° 8	10° 1	17°55	0°37	19°33	17°15	1°13	28° 9	19°49	18°58	8° 2	21° 9	W26
T 27	16 16 40	5°26'29	25°24	19° 7	11°14	18°26	0°37	19°37	17°13	1°15	28° 8	19°38	18°55	8° 9	21°13	T 27
F 28	16 20 37	6°24'09	7♎34	21° 3	12°26	18°57	0°D37	19°40	17°10	1°17	28° 7	19°25	18°52	8°15	21°17	F 28
S 29	16 24 33	7°21'48	19°36	22°57	13°39	19°29	0°37	19°43	17° 8	1°19	28° 6	19°12	18°49	8°22	21°21	S 29
S 30	16 28 30	8°19'25	1♈33	24°49	14°52	20° 0	0°37	19°47	17° 6	1°21	28° 4	18°59	18°46	8°29	21°24	S 30
M31	16 32 26	9♉17'02	13♈26	26♉37	16♊5	20♋32	0♌37	19♋50	17♌3	1♍23	28♌3	18♋47	18♋42	8♈36	21♊28	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	14n53	27s 3	5s 1	7n53	2s 0	2n21	1s38	20n48	2n 2	0n43	1n31	6s27	1s43	16s54	0n23	22n15	1s 9	5n28	17n37	3s22	3s50	28s17	15n35	2s 4			
S 2	15 12	28 20	5 6	8 40	1 54	2 49	1 39	20 40	2 1	0 44	1 31	6 25	1 44	16 53	0 23	22 15	1 9	5 29	17 37	3 25	3 52	28 16	15 36	2 4			
M 3	15 30	28 17	4 58	9 26	1 47	3 17	1 40	20 32	2 0	0 46	1 31	6 23	1 44	16 52	0 23	22 15	1 9	5 29	17 37	3 28	3 53	28 16	15 37	2 4			
T 4	15 47	26 55	4 36	10 13	1 40	3 44	1 40	20 24	1 58	0 48	1 30	6 21	1 44	16 52	0 23	22 15	1 9	5 30	17 36	3 30	3 54	28 15	15 38	2 4			
W 5	16 5	24 22	4 3	11 0	1 32	4 12	1 41	20 15	1 57	0 49	1 30	6 19	1 44	16 51	0 22	22 15	1 9	5 30	17 36	3 32	3 55	28 15	15 39	2 5			
T 6	16 22	20 44	3 19	11 48	1 24	4 39	1 41	20 7	1 56	0 50	1 30	6 18	1 44	16 50	0 22	22 16	1 9	5 30	17 36	3 32	3 57	28 14	15 40	2 5			
F 7	16 39	16 12	2 26	12 35	1 16	5 7	1 41	19 59	1 55	0 52	1 30	6 16	1 44	16 50	0 22	22 16	1 9	5 31	17 36	3 32	3 58	28 13	15 41	2 5			
S 8	16 55	10 55	1 24	13 23	1 7	5 34	1 42	19 50	1 54	0 53	1 30	6 14	1 45	16 49	0 22	22 16	1 9	5 31	17 36	3 32	3 59	28 13	15 42	2 5			
S 9	17 12	5 4	0 17	14 11	0 57	6 1	1 42	19 41	1 53	0 54	1 29	6 12	1 45	16 48	0 22	22 16	1 9	5 32	17 36	3 32	4 0	28 12	15 43	2 5			
M10	17 28	1n10	0n52	14 58	0 48	6 28	1 42	19 32	1 52	0 55	1 29	6 11	1 45	16 47	0 22	22 16	1 9	5 32	17 35	3 32	4 2	28 12	15 44	2 5			
T 11	17 43	7 34	2 2	15 45	0 38	6 55	1 42	19 24	1 51	0 57	1 29	6 9	1 45	16 47	0 22	22 16	1 9	5 32	17 35	3 33	4 3	28 11	15 45	2 5			
W12	17 59	13 48	3 6	16 31	0 28	7 22	1 42	19 14	1 50	0 58	1 29	6 7	1 45	16 46	0 22	22 16	1 9	5 32	17 35	3 35	4 4	28 11	15 46	2 5			
T 13	18 14	19 29	4 0	17 16	0 17	7 49	1 42	19 5	1 48	0 58	1 29	6 6	1 46	16 45	0 22	22 16	1 9	5 33	17 35	3 37	4 5	28 10	15 47	2 5			
F 14	18 29	24 7	4 39	18 1	0 7	8 16	1 42	18 56	1 47	0 59	1 28	6 4	1 46	16 45	0 22	22 16	1 9	5 33	17 34	3 41	4 7	28 9	15 48	2 5			
S 15	18 43	27 14	5 0	18 44	0n 4	8 42	1 41	18 47	1 46	1 0	1 28	6 3	1 46	16 44	0 22	22 16	1 9	5 33	17 34	3 44	4 8	28 9	15 49	2 5			
S 16	18 57	28 24	5 1	19 26	0 14	9 8	1 41	18 37	1 45	1 1	1 28	6 1	1 46	16 43	0 22	22 16	1 9	5 34	17 34	3 48	4 9	28 8	15 50	2 5			
M17	19 11	27 30	4 41	20 6	0 25	9 34	1 41	18 28	1 44	1 1	1 28	6 0	1 47	16 43	0 22	22 16	1 9	5 34	17 34	3 51	4 10	28 7	15 51	2 5			
T 18	19 25	24 43	4 3	20 45	0 35	10 0	1 40	18 18	1 43	1 2	1 27	5 58	1 47	16 42	0 22	22 16	1 9	5 34	17 33	3 53	4 12	28 7	15 52	2 6			
W19	19 38	20 26	3 11	21 21	0 45	10 26	1 40	18 8	1 42	1 2	1 27	5 57	1 47	16 41	0 22	22 16	1 9	5 34	17 33	3 54	4 13	28 6	15 53	2 6			
T 20	19 51	15 6	2 8	21 56	0 55	10 51	1 39	17 58	1 41	1 3	1 27	5 55	1 47	16 41	0 22	22 16	1 9	5 34	17 33	3 55	4 14	28 6	15 54	2 6			
F 21	20 3	9 8	0 59	22 28	1 4	11 17	1 38	17 49	1 40	1 3	1 27	5 54	1 47	16 40	0 22	22 16	1 9	5 35	17 32	3 55	4 15	28 5	15 55	2 6			
S 22	20 16	2 55	0s11	22 58	1 13	11 42	1 38	17 38	1 39	1 3	1 26	5 53	1 48	16 39	0 22	22 16	1 9	5 35	17 32	3 55	4 17	28 4	15 56	2 6			
S 23	20 27	3s18	1 19	23 25	1 22	12 6	1 37	17 28	1 38	1 4	1 26	5 51	1 48	16 39	0 22	22 16	1 9	5 35	17 32	3 55	4 18	28 4	15 57	2 6			
M24	20 39	9 16	2 22	23 50	1 30	12 31	1 36	17 18	1 37	1 4	1 26	5 50	1 48	16 38	0 22	22 16	1 9	5 35	17 31	3 56	4 19	28 3	15 58	2 6			
T 25	20 50	14 46	3 17	24 12	1 37	12 55	1 35	17 8	1 36	1 4	1 26	5 49	1 48	16 37	0 22	22 16	1 9	5 35	17 31	3 58	4 20	28 2	15 59	2 6			
W26	21 1	19 35	4 2	24 31	1 44	13 19	1 34	16 57	1 35	1 4	1 26	5 48	1 49	16 37	0 22	22 16	1 8	5 35	17 31	4 2	4 22	28 1	16 0	2 6			
T 27	21 11	23 31	4 34	24 48	1 50	13 42	1 33	16 47	1 34	1 4	1 25	5 47	1 49	16 36	0 22	22 16	1 8	5 35	17 30	4 6	4 23	28 1	16 0	2 6			
F 28	21 21	26 22	4 54	25 2	1 55	14 6	1 32	16 36	1 33	1 4	1 25	5 45	1 49	16 35	0 22	22 16	1 8	5 35	17 30	4 11	4 24	28 0	16 1	2 7			
S 29	21 31	27 59	5 0	25 13	2 0	14 29	1 31	16 25	1 32	1 3	1 25	5 44	1 49	16 35	0 22	22 16	1 8	5 35	17 30	4 16	4 25	27 59	16 2	2 7			
S 30	21 40	28 17	4 53	25 22	2 4	14 51	1 29	16 14	1 31	1 3	1 25	5 43	1 49	16 34	0 22	22 16	1 8	5 35	17 29	4 21	4 27	27 59	16 3	2 7			
M31	21n49	27s16	4s33	25n29	2n 7	15n14	1s28	16n 3	1n30	1n 3	1n24	5s42	1s50	16s33	0n22	22n16	1s 8	5n35	17n29	4s26	4s28	27s58	16n 4	2s 7			

ASTRODIENST EPHEMERIS for the year 2230

geocentric

JUNE 2230

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 36 23	10 ^{II} 14'37	25 ^{III} 17	28 ^{II} 23	17 ^{III} 18	21 ^{II} 4	0 ^{II} 38	19 ^{II} 53	17 ^R 1	1 ^{II} 26	28 ^R 2	18 ^R 38	18 ^{II} 39	8 ^{II} 42	21 ^{II} 32	T 1
W 2	16 40 20	11 [°] 12'12	7 [≈] 8	0 ^{II} 6	18 [°] 31	21 [°] 36	0 [°] 39	19 [°] 56	16 ^{II} 59	1 [°] 28	28 ^{II} 1	18 ^{II} 32	18 [°] 36	8 [°] 49	21 [°] 36	W 2
T 3	16 44 16	12 [°] 9'45	19 [°] 5	1 [°] 46	19 [°] 43	22 [°] 8	0 [°] 40	19 [°] 58	16 [°] 57	1 [°] 30	28 [°] 0	18 [°] 28	18 [°] 33	8 [°] 56	21 [°] 40	T 3
F 4	16 48 13	13 [°] 7'18	1 ^{II} 10	3 [°] 23	20 [°] 56	22 [°] 40	0 [°] 41	20 [°] 1	16 [°] 54	1 [°] 32	27 [°] 59	18 [°] 26	18 [°] 30	9 [°] 2	21 [°] 44	F 4
S 5	16 52 9	14 [°] 4'50	13 [°] 30	4 [°] 58	22 [°] 9	23 [°] 12	0 [°] 42	20 [°] 4	16 [°] 52	1 [°] 34	27 [°] 58	18 [°] 26	18 [°] 26	9 [°] 9	21 [°] 48	S 5
S 6	16 56 6	15 [°] 2'20	26 [°] 8	6 [°] 29	23 [°] 22	23 [°] 44	0 [°] 44	20 [°] 6	16 [°] 50	1 [°] 36	27 [°] 57	18 [°] 26	18 [°] 23	9 [°] 16	21 [°] 52	S 6
M 7	17 0 2	15 [°] 59'51	9 ^{II} 10	7 [°] 57	24 [°] 35	24 [°] 16	0 [°] 45	20 [°] 9	16 [°] 48	1 [°] 38	27 [°] 56	18 [°] 25	18 [°] 20	9 [°] 23	21 [°] 55	M 7
T 8	17 3 59	16 [°] 57'20	22 [°] 40	9 [°] 22	25 [°] 48	24 [°] 49	0 [°] 47	20 [°] 11	16 [°] 46	1 [°] 41	27 [°] 55	18 [°] 22	18 [°] 17	9 [°] 29	21 [°] 59	T 8
W 9	17 7 55	17 [°] 54'49	6 ^{II} 39	10 [°] 44	27 [°] 1	25 [°] 21	0 [°] 49	20 [°] 14	16 [°] 44	1 [°] 43	27 [°] 54	18 [°] 16	18 [°] 14	9 [°] 36	22 [°] 3	W 9
T 10	17 11 52	18 [°] 52'17	21 [°] 7	12 [°] 3	28 [°] 14	25 [°] 54	0 [°] 51	20 [°] 16	16 [°] 42	1 [°] 45	27 [°] 53	18 [°] 9	18 [°] 11	9 [°] 43	22 [°] 7	T 10
F 11	17 15 49	19 [°] 49'44	6 ^{II} 0	13 [°] 19	29 [°] 27	26 [°] 27	0 [°] 54	20 [°] 18	16 [°] 40	1 [°] 47	27 [°] 52	17 [°] 59	18 [°] 7	9 [°] 49	22 [°] 10	F 11
S 12	17 19 45	20 [°] 47'11	21 [°] 8	14 [°] 32	0 ^{II} 40	27 [°] 0	0 [°] 56	20 [°] 20	16 [°] 38	1 [°] 49	27 [°] 51	17 [°] 48	18 [°] 4	9 [°] 56	22 [°] 14	S 12
S 13	17 23 42	21 [°] 44'37	6 ^{II} 23	15 [°] 41	1 [°] 53	27 [°] 33	0 [°] 59	20 [°] 22	16 [°] 36	1 [°] 52	27 [°] 50	17 [°] 37	18 [°] 1	10 [°] 3	22 [°] 18	S 13
M14	17 27 38	22 [°] 42'02	21 [°] 33	16 [°] 47	3 [°] 6	28 [°] 6	1 [°] 2	20 [°] 24	16 [°] 34	1 [°] 54	27 [°] 50	17 [°] 28	17 [°] 58	10 [°] 10	22 [°] 21	M14
T 15	17 31 35	23 [°] 39'26	6 ^{II} 28	17 [°] 49	4 [°] 19	28 [°] 39	1 [°] 5	20 [°] 25	16 [°] 32	1 [°] 56	27 [°] 49	17 [°] 21	17 [°] 55	10 [°] 16	22 [°] 25	T 15
W16	17 35 31	24 [°] 36'48	21 [°] 2	18 [°] 48	5 [°] 32	29 [°] 12	1 [°] 8	20 [°] 27	16 [°] 30	1 [°] 58	27 [°] 48	17 [°] 17	17 [°] 52	10 [°] 23	22 [°] 28	W16
T 17	17 39 28	25 [°] 34'10	5 ^{II} 10	19 [°] 44	6 [°] 45	29 [°] 46	1 [°] 12	20 [°] 28	16 [°] 29	2 [°] 0	27 [°] 47	17 [°] 15	17 [°] 48	10 [°] 30	22 [°] 32	T 17
F 18	17 43 24	26 [°] 31'31	18 [°] 52	20 [°] 36	7 [°] 58	0 ^{II} 19	1 [°] 15	20 [°] 30	16 [°] 27	2 [°] 3	27 [°] 47	17 [°] 15	17 [°] 45	10 [°] 36	22 [°] 36	F 18
S 19	17 47 21	27 [°] 28'51	2 ^{II} 10	21 [°] 24	9 [°] 11	0 [°] 52	1 [°] 19	20 [°] 31	16 [°] 25	2 [°] 5	27 [°] 46	17 [°] 15	17 [°] 42	10 [°] 43	22 [°] 39	S 19
S 20	17 51 18	28 [°] 26'09	15 [°] 7	22 [°] 8	10 [°] 24	1 [°] 26	1 [°] 23	20 [°] 32	16 [°] 24	2 [°] 7	27 [°] 45	17 [°] 14	17 [°] 39	10 [°] 50	22 [°] 43	S 20
M21	17 55 14	29 [°] 23'27	27 [°] 46	22 [°] 48	11 [°] 37	2 [°] 0	1 [°] 27	20 [°] 34	16 [°] 22	2 [°] 9	27 [°] 45	17 [°] 11	17 [°] 36	10 [°] 57	22 [°] 46	M21
T 22	17 59 11	0 ^{II} 20'45	10 ^{II} 12	23 [°] 25	12 [°] 50	2 [°] 34	1 [°] 31	20 [°] 35	16 [°] 20	2 [°] 12	27 [°] 44	17 [°] 6	17 [°] 32	11 [°] 3	22 [°] 49	T 22
W23	18 3 7	1 [°] 18'01	22 [°] 27	23 [°] 57	14 [°] 3	3 [°] 7	1 [°] 35	20 [°] 35	16 [°] 19	2 [°] 14	27 [°] 44	16 [°] 58	17 [°] 29	11 [°] 10	22 [°] 53	W23
T 24	18 7 4	2 [°] 15'17	4 ^{II} 33	24 [°] 24	15 [°] 16	3 [°] 41	1 [°] 40	20 [°] 36	16 [°] 17	2 [°] 16	27 [°] 43	16 [°] 47	17 [°] 26	11 [°] 17	22 [°] 56	T 24
F 25	18 11 0	3 [°] 12'32	16 [°] 34	24 [°] 48	16 [°] 29	4 [°] 15	1 [°] 45	20 [°] 37	16 [°] 16	2 [°] 18	27 [°] 43	16 [°] 35	17 [°] 23	11 [°] 23	23 [°] 0	F 25
S 26	18 14 57	4 [°] 9'47	28 [°] 30	25 [°] 7	17 [°] 42	4 [°] 49	1 [°] 49	20 [°] 38	16 [°] 14	2 [°] 20	27 [°] 42	16 [°] 22	17 [°] 20	11 [°] 30	23 [°] 3	S 26
S 27	18 18 54	5 [°] 7'01	10 ^{II} 23	25 [°] 22	18 [°] 56	5 [°] 24	1 [°] 54	20 [°] 38	16 [°] 13	2 [°] 23	27 [°] 42	16 [°] 10	17 [°] 17	11 [°] 37	23 [°] 6	S 27
M28	18 22 50	6 [°] 4'15	22 [°] 14	25 [°] 32	20 [°] 9	5 [°] 58	2 [°] 0	20 [°] 39	16 [°] 12	2 [°] 25	27 [°] 42	15 [°] 59	17 [°] 13	11 [°] 44	23 [°] 9	M28
T 29	18 26 47	7 [°] 1'28	4 ^{II} 6	25 [°] 37	21 [°] 22	6 [°] 32	2 [°] 5	20 [°] 39	16 [°] 10	2 [°] 27	27 [°] 41	15 [°] 50	17 [°] 10	11 [°] 50	23 [°] 13	T 29
W30	18 30 43	7 ^{II} 58'41	16 [≈] 0	25 [°] R38	22 ^{II} 35	7 ^{II} 7	2 ^{II} 10	20 ^{II} 39	16 ^{II} 9	2 ^{II} 29	27 ^{II} 41	15 ^{II} 43	17 ^{II} 7	11 ^{II} 57	23 ^{II} 16	W30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑	♒	♓	♈	♉		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
T 1	21n58	25s 1	4s 2	25n33	2n 9	15n35	1s27	15n52	1n29	1n 2	1n24	5s41	1s50	16s33	0n22	22n16	1s 8	5n35	17n28	4s29	4s29	27s57	16n 5	2s 7
W 2	22 6	21 41	3 20	25 35	2 11	15 57	1 25	15 41	1 28	1 2	1 24	5 40	1 50	16 32	0 22	22 16	1 8	5 35	17 28	4 32	4 30	27 56	16 6	2 7
T 3	22 13	17 26	2 28	25 35	2 11	16 18	1 24	15 30	1 27	1 1	1 24	5 40	1 50	16 31	0 22	22 16	1 8	5 35	17 28	4 34	4 32	27 56	16 7	2 7
F 4	22 21	12 27	1 30	25 33	2 11	16 39	1 22	15 19	1 27	1 0	1 23	5 39	1 51	16 31	0 22	22 16	1 8	5 35	17 27	4 34	4 33	27 55	16 8	2 7
S 5	22 28	6 53	0 26	25 29	2 10	16 59	1 21	15 7	1 26	1 0	1 23	5 38	1 51	16 30	0 22	22 16	1 8	5 35	17 27	4 34	4 34	27 54	16 8	2 7
S 6	22 34	0 55	0n41	25 23	2 8	17 19	1 19	14 56	1 25	0 59	1 23	5 37	1 51	16 30	0 22	22 16	1 8	5 35	17 26	4 34	4 35	27 53	16 9	2 8
M 7	22 41	5n16	1 47	25 16	2 6	17 39	1 17	14 44	1 24	0 58	1 23	5 36	1 51	16 29	0 22	22 16	1 8	5 35	17 26	4 35	4 36	27 52	16 10	2 8
T 8	22 46	11 26	2 50	25 7	2 2	17 58	1 15	14 32	1 23	0 57	1 22	5 36	1 52	16 29	0 22	22 16	1 8	5 35	17 25	4 36	4 38	27 52	16 11	2 8
W 9	22 52	17 16	3 45	24 56	1 58	18 16	1 14	14 20	1 22	0 56	1 22	5 35	1 52	16 28	0 22	22 16	1 8	5 35	17 25	4 38	4 39	27 51	16 12	2 8
T 10	22 57	22 19	4 28	24 45	1 53	18 35	1 12	14 9	1 21	0 55	1 22	5 34	1 52	16 27	0 22	22 16	1 8	5 35	17 24	4 41	4 40	27 50	16 13	2 8
F 11	23 1	26 6	4 54	24 32	1 47	18 52	1 10	13 57	1 20	0 54	1 22	5 34	1 52	16 27	0 22	22 16	1 8	5 35	17 24	4 45	4 41	27 49	16 13	2 8
S 12	23 6	28 6	5 0	24 18	1 41	19 9	1 8	13 44	1 19	0 52	1 21	5 33	1 53	16 26	0 22	22 16	1 8	5 35	17 24	4 49	4 43	27 48	16 14	2 8
S 13	23 9	28 0	4 44	24 3	1 34	19 26	1 6	13 32	1 18	0 51	1 21	5 33	1 53	16 26	0 22	22 16	1 8	5 34	17 23	4 53	4 44	27 47	16 15	2 9
M14	23 13	25 47	4 9	23 47	1 26	19 42	1 4	13 20	1 18	0 50	1 21	5 32	1 53	16 25	0 22	22 16	1 8	5 34	17 23	4 57	4 45	27 46	16 16	2 9
T 15	23 16	21 49	3 17	23 30	1 17	19 58	1 2	13 8	1 17	0 48	1 21	5 32	1 53	16 25	0 22	22 16	1 8	5 34	17 22	4 59	4 46	27 46	16 17	2 9
W16	23 18	16 35	2 14	23 13	1 8	20 13	1 0	12 55	1 16	0 47	1 21	5 31	1 54	16 24	0 22	22 16	1 8	5 34	17 22	5 1	4 48	27 45	16 17	2 9
T 17	23 20	10 36	1 3	22 55	0 58	20 28	0 58	12 43	1 15	0 45	1 20	5 31	1 54	16 24	0 22	22 16	1 8	5 34	17 21	5 2	4 49	27 44	16 18	2 9
F 18	23 22	4 16	0s 9	22 36	0 47	20 42	0 56	12 30	1 14	0 44	1 20	5 31	1 54	16 23	0 22	22 16	1 8	5 33	17 21	5 2	4 50	27 43	16 19	2 9
S 19	23 23	2s 3	1 18	22 18	0 35	20 55	0 53	12 17	1 13	0 42	1 20	5 30	1 54	16 23	0 22	22 16	1 8	5 33	17 20	5 2	4 51	27 42	16 20	2 9
S 20	23 24	8 8	2 22	21 59	0 23	21 8	0 51	12 5	1 12	0 40	1 20	5 30	1 55	16 22	0 22	22 16	1 8	5 33	17 20	5 2	4 53	27 41	16 20	2 10
M21	23 25	13 44	3 17	21 40	0 11	21 21	0 49	11 52	1 11	0 38	1 19	5 30	1 55	16 22	0 22	22 16	1 8	5 32	17 19	5 3	4 54	27 40	16 21	2 10
T 22	23 25	18 40	4 1	21 20	0s 3	21 32	0 47	11 39	1 11	0 36	1 19	5 30	1 55	16 21	0 22	22 16	1 8	5 32	17 18	5 5	4 55	27 39	16 22	2 10
W23	23 24	22 46	4 34	21 1	0 16	21 44	0 44	11 26	1 10	0 34	1 19	5 29	1 55	16 21	0 22	22 16	1 8	5 32	17 18	5 9	4 56	27 38	16 22	2 10
T 24	23 24	25 50	4 54	20 42	0 31	21 54	0 42	11 13	1 9	0 32	1 19	5 29	1 56	16 21	0 22	22 16	1 8	5 31	17 17	5 13	4 58	27 37	16 23	2 10
F 25	23 22	27 43	5 1	20 24	0 46	22 4	0 40	11 0	1 8	0 30	1 18	5 29	1 56	16 20	0 22	22 16	1 8	5 31	17 17	5 17	4 59	27 37	16 24	2 10
S 26	23 21	28 18	4 54	20 5	1 1	22 13	0 37	10 46	1 7	0 28	1 18	5 29	1 56	16 20	0 22	22 15	1 8	5 31	17 16	5 22	5 0	27 36	16 24	2 11
S 27	23 19	27 34	4 35	19 47	1 16	22 22	0 35	10 33	1 6	0 26	1 18	5 29	1 56	16 20	0 22	22 15	1 8	5 30	17 16	5 27	5 1	27 35	16 25	2 11
M28	23 16	25 35	4 4	19 30	1 32	22 30	0 33	10 20	1 6	0 24	1 18	5 29	1 57	16 19	0 22	22 15	1 8	5 30	17 15	5 31	5 2	27 34	16 26	2 11
T 29	23 14	22 28	3 22	19 13	1 48	22 38	0 30	10 6	1 5	0 22	1 18	5 30	1 57	16 19	0 22	22 15	1 8	5 30	17 15	5 35	5 4	27 33	16 26	2 11
W30	23n10	18s25	2s31	18n57	2s 4	22n45	0s28	9n53	1n 4	0n19	1n17	5s30	1s57	16s18	0n22	22n15	1s 8	5n29	17n14	5s37	5s 5	27s32	16n27	2s11

ASTRODIENST EPHEMERIS for the year 2230
geocentric

JULY 2230

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	18 34 40	8°55'55	27°59'59	25°R34	23°II48	7°III41	2°Δ16	20°H39	16°R 8	2°Ω32	27°R41	15°R40	17°H 4	12°Ω 4	23°R19	T 1
F 2	18 38 36	9°53'08	10°H 6	25°Ω26	25° 2	8°16	2°22	20°R39	16°III 7	2°34	27°Δ41	15°D38	17° 1	12°10	23°22	F 2
S 3	18 42 33	10°50'20	22°27	25°13	26°15	8°50	2°27	20°39	16° 6	2°36	27°40	15°H38	16°58	12°17	23°25	S 3
S 4	18 46 29	11°47'33	5°Y 4	24°56	27°28	9°25	2°33	20°39	16° 5	2°38	27°40	15°39	16°54	12°24	23°28	S 4
M 5	18 50 26	12°44'47	18° 3	24°36	28°41	10° 0	2°40	20°39	16° 3	2°41	27°40	15°R39	16°51	12°30	23°31	M 5
T 6	18 54 23	13°42'00	1°R28	24°11	29°55	10°35	2°46	20°38	16° 2	2°43	27°40	15°37	16°48	12°37	23°34	T 6
W 7	18 58 19	14°39'13	15°21	23°43	1°Ω 8	11°10	2°52	20°38	16° 2	2°45	27°40	15°34	16°45	12°44	23°37	W 7
T 8	19 2 16	15°36'27	29°42	23°12	2°21	11°45	2°59	20°37	16° 1	2°47	27°D40	15°28	16°42	12°51	23°40	T 8
F 9	19 6 12	16°33'41	14°II29	22°39	3°35	12°20	3° 6	20°37	16° 0	2°49	27°40	15°21	16°38	12°57	23°42	F 9
S 10	19 10 9	17°30'56	29°35	22° 4	4°48	12°55	3°12	20°36	15°59	2°52	27°40	15°12	16°35	13° 4	23°45	S 10
S 11	19 14 5	18°28'10	14°Ω51	21°27	6° 2	13°30	3°19	20°35	15°58	2°54	27°40	15° 4	16°32	13°11	23°48	S 11
M12	19 18 2	19°25'24	0°Ω 7	20°49	7°15	14° 5	3°26	20°34	15°58	2°56	27°40	14°57	16°29	13°17	23°51	M12
T 13	19 21 58	20°22'39	15°11	20°12	8°29	14°41	3°34	20°33	15°57	2°58	27°40	14°52	16°26	13°24	23°53	T 13
W14	19 25 55	21°19'53	29°54	19°34	9°42	15°16	3°41	20°32	15°56	3° 0	27°40	14°49	16°23	13°31	23°56	W14
T 15	19 29 52	22°17'07	14°III12	18°58	10°56	15°52	3°49	20°31	15°56	3° 2	27°41	14°D48	16°19	13°38	23°59	T 15
F 16	19 33 48	23°14'21	28° 3	18°24	12° 9	16°27	3°56	20°29	15°55	3° 4	27°41	14°48	16°16	13°44	24° 1	F 16
S 17	19 37 45	24°11'35	11°Δ27	17°52	13°23	17° 3	4° 4	20°28	15°55	3° 7	27°41	14°49	16°13	13°51	24° 3	S 17
S 18	19 41 41	25° 8'49	24°26	17°23	14°36	17°39	4°12	20°26	15°55	3° 9	27°41	14°R50	16°10	13°58	24° 6	S 18
M19	19 45 38	26° 6'03	7°III 5	16°57	15°50	18°15	4°20	20°25	15°54	3°11	27°42	14°49	16° 7	14° 4	24° 8	M19
T 20	19 49 34	27° 3'17	19°27	16°35	17° 3	18°51	4°28	20°23	15°54	3°13	27°42	14°47	16° 4	14°11	24°11	T 20
W21	19 53 31	28° 0'32	1°R36	16°18	18°17	19°26	4°36	20°21	15°54	3°15	27°43	14°42	16° 0	14°18	24°13	W21
T 22	19 57 27	28°57'46	13°37	16° 6	19°30	20° 2	4°44	20°19	15°54	3°17	27°43	14°36	15°57	14°25	24°15	T 22
F 23	20 1 24	29°55'01	25°32	15°58	20°44	20°39	4°53	20°17	15°53	3°19	27°44	14°29	15°54	14°31	24°17	F 23
S 24	20 5 21	0°Δ52'16	7°Ω24	15°D56	21°58	21°15	5° 1	20°15	15°53	3°21	27°44	14°20	15°51	14°38	24°19	S 24
S 25	20 9 17	1°49'31	19°16	15°59	23°11	21°51	5°10	20°13	15°D53	3°23	27°45	14°13	15°48	14°45	24°22	S 25
M26	20 13 14	2°46'47	1°Ω 9	16° 8	24°25	22°27	5°19	20°11	15°53	3°25	27°45	14° 6	15°44	14°51	24°24	M26
T 27	20 17 10	3°44'03	13° 5	16°23	25°39	23° 4	5°28	20° 8	15°53	3°27	27°46	14° 0	15°41	14°58	24°26	T 27
W28	20 21 7	4°41'20	25° 5	16°44	26°52	23°40	5°36	20° 6	15°54	3°29	27°47	13°57	15°38	15° 5	24°28	W28
T 29	20 25 3	5°38'37	7°H12	17°10	28° 6	24°16	5°46	20° 3	15°54	3°31	27°47	13°55	15°35	15°11	24°29	T 29
F 30	20 29 0	6°35'55	19°29	17°43	29°20	24°53	5°55	20° 1	15°54	3°33	27°48	13°D55	15°32	15°18	24°31	F 30
S 31	20 32 56	7°Δ33'14	1°Y57	18°Ω21	0°Δ34	25°III29	6°Δ 4	19°H58	15°III54	3°Ω35	27°Δ49	13°H56	15°H29	15°Ω25	24°R33	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	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl
T 1	23n 7	13s37	1s33	18n42	2s21	22n51	0s25	9n39	1n 3	0n17	1n17	5s30	1s57	16s18	0n21	22n15	1s 8	5n29	17n14	5s39	5s 6	27s31	16n28	2s11										
F 2	23 3	8 13	0 29	18 28	2 37	22 56	0 23	9 26	1 2	0 14	1 17	5 30	1 58	16 18	0 21	22 15	1 8	5 28	17 13	5 39	5 7	27 30	16 28	2 12										
S 3	22 58	2 26	0n36	18 14	2 52	23 1	0 20	9 12	1 2	0 12	1 17	5 30	1 58	16 18	0 21	22 15	1 8	5 28	17 12	5 39	5 9	27 29	16 29	2 12										
S 4	22 53	3n34	1 42	18 2	3 8	23 5	0 18	8 58	1 1	0 9	1 16	5 31	1 58	16 17	0 21	22 15	1 8	5 27	17 12	5 39	5 10	27 28	16 29	2 12										
M 5	22 48	9 36	2 44	17 51	3 23	23 9	0 15	8 44	1 0	0 7	1 16	5 31	1 58	16 17	0 21	22 15	1 8	5 27	17 11	5 39	5 11	27 27	16 30	2 12										
T 6	22 42	15 24	3 39	17 41	3 37	23 12	0 13	8 30	0 59	0 4	1 16	5 31	1 59	16 17	0 21	22 15	1 8	5 26	17 11	5 40	5 12	27 26	16 30	2 12										
W 7	22 36	20 37	4 24	17 33	3 51	23 14	0 11	8 16	0 58	0 1	1 16	5 32	1 59	16 16	0 21	22 15	1 8	5 26	17 10	5 41	5 14	27 25	16 31	2 12										
T 8	22 30	24 50	4 53	17 25	4 3	23 15	0 8	8 2	0 58	0s 2	1 16	5 32	1 59	16 16	0 21	22 15	1 8	5 25	17 10	5 43	5 15	27 23	16 31	2 13										
F 9	22 23	27 33	5 5	17 19	4 15	23 16	0 6	7 48	0 57	0 4	1 15	5 33	1 59	16 16	0 21	22 15	1 8	5 25	17 9	5 46	5 16	27 22	16 32	2 13										
S 10	22 16	28 20	4 55	17 15	4 25	23 16	0 3	7 34	0 56	0 7	1 15	5 33	2 0	16 16	0 21	22 15	1 8	5 24	17 8	5 49	5 17	27 21	16 33	2 13										
S 11	22 8	26 58	4 25	17 12	4 34	23 16	0 1	7 20	0 55	0 10	1 15	5 34	2 0	16 16	0 21	22 15	1 8	5 24	17 8	5 53	5 19	27 20	16 33	2 13										
M12	22 0	23 37	3 36	17 10	4 41	23 15	0n 2	7 5	0 54	0 13	1 15	5 34	2 0	16 15	0 21	22 15	1 8	5 23	17 7	5 55	5 20	27 19	16 33	2 13										
T 13	21 52	18 41	2 32	17 9	4 47	23 13	0 4	6 51	0 54	0 16	1 15	5 35	2 0	16 15	0 21	22 15	1 8	5 22	17 7	5 57	5 21	27 18	16 34	2 14										
W14	21 43	12 44	1 19	17 10	4 52	23 10	0 7	6 37	0 53	0 19	1 14	5 36	2 1	16 15	0 21	22 15	1 8	5 22	17 6	5 59	5 22	27 17	16 34	2 14										
T 15	21 34	6 15	0 3	17 13	4 54	23 7	0 9	6 22	0 52	0 23	1 14	5 36	2 1	16 15	0 21	22 15	1 8	5 21	17 6	5 59	5 23	27 16	16 35	2 14										
F 16	21 25	0s18	1s11	17 16	4 56	23 3	0 12	6 8	0 51	0 26	1 14	5 37	2 1	16 15	0 21	22 15	1 8	5 21	17 5	5 59	5 25	27 15	16 35	2 14										
S 17	21 15	6 39	2 18	17 21	4 55	22 58	0 14	5 53	0 51	0 29	1 14	5 38	2 1	16 15	0 21	22 15	1 8	5 20	17 4	5 58	5 26	27 14	16 36	2 14										
S 18	21 5	12 30	3 17	17 27	4 53	22 53	0 16	5 38	0 50	0 32	1 14	5 39	2 2	16 15	0 21	22 15	1 8	5 19	17 4	5 58	5 27	27 13	16 36	2 15										
M19	20 54	17 42	4 4	17 33	4 49	22 47	0 19	5 24	0 49	0 36	1 13	5 40	2 2	16 15	0 21	22 14	1 8	5 19	17 3	5 58	5 28	27 11	16 36	2 15										
T 20	20 43	22 2	4 38	17 41	4 44	22 40	0 21	5 9	0 48	0 39	1 13	5 41	2 2	16 15	0 21	22 14	1 8	5 18	17 3	5 59	5 30	27 10	16 37	2 15										
W21	20 32	25 21	5 0	17 50	4 37	22 33	0 23	4 54	0 48	0 42	1 13	5 41	2 2	16 15	0 21	22 14	1 8	5 17	17 2	6 1	5 31	27 9	16 37	2 15										
T 22	20 21	27 30	5 8	17 59	4 29	22 25	0 26	4 39	0 47	0 46	1 13	5 42	2 2	16 15	0 21	22 14	1 8	5 17	17 2	6 3	5 32	27 8	16 37	2 15										
F 23	20 9	28 22	5 2	18 9	4 20	22 17	0 28	4 25	0 46	0 49	1 13	5 43	2 3	16 15	0 21	22 14	1 8	5 16	17 1	6 6	5 33	27 7	16 38	2 16										
S 24	19 56	27 55	4 43	18 20	4 10	22 7	0 30	4 10	0 45	0 53	1 13	5 44	2 3	16 15	0 21	22 14	1 8	5 15	17 0	6 9	5 35	27 6	16 38	2 16										
S 25	19 44	26 12	4 13	18 30	3 59	21 57	0 32	3 55	0 45	0 57	1 12	5 46	2 3	16 15	0 21	22 14	1 8	5 15	17 0	6 12	5 36	27 4	16 38	2 16										
M26	19 31	23 18	3 31	18 41	3 46	21 47	0 35	3 40	0 44	1 0	1 12	5 47	2 3	16 15	0 21	22 14	1 8	5 14	16 59	6 15	5 37	27 3	16 39	2 16										
T 27	19 18	19 25	2 39	18 52	3 34	21 36	0 37	3 25	0 43	1 4	1 12	5 48	2 4	16 15	0 21	22 14	1 8	5 13	16 59	6 17	5 38	27 2	16 39	2 16										
W28	19 4	14 43	1 41	19 3	3 20	21 24	0 39	3 10	0 42	1 8	1 12	5 49	2 4	16 15	0 21	22 14	1 8	5 12	16 58	6 19	5 39	27 1	16 39	2 17										
T 29	18 50	9 25	0 36	19 14	3 6	21 11	0 41	2 55	0 42	1 11	1 12	5 50	2 4	16 15	0 21	22 14	1 8	5 11	16 58	6 19	5 41	27 0	16 40	2 17										
F 30	18 36	3 42	0n30	19 25	2 51	20 58	0 43	2 39	0 41	1 15	1 11	5 51	2 4	16 15	0 21	22 14	1 8	5 12	16 57	6 19	5 42	26 58	16 40	2 17										
S 31	18n22	2n15	1n37	19n34	2s37	20n45	0n45	2n24	0n40	1s19	1n11	5s53	2s 4	16s15	0n21	22n14	1s 8	5n10	16n56	6s19	5s43	26s57	16n40	2s17										

ASTRODIENST EPHEMERIS for the year 2230

geocentric

AUGUST 2230

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 36 53	8♂30'34	14♂40	19♂5	1♂47	26♂6	6♂13	19♂R55	15♂55	3♂37	27♂49	13♂57	15♂25	15♂32	24♂35	S 1
M 2	20 40 50	9°27'55	27°42	19°55	3° 1	26°43	6°23	19♂53	15°55	3°39	27°50	13°59	15°22	15°38	24°36	M 2
T 3	20 44 46	10°25'17	11♂4	20°50	4°15	27°20	6°32	19°50	15°55	3°41	27°51	13°R59	15°19	15°45	24°38	T 3
W 4	20 48 43	11°22'40	24°51	21°51	5°29	27°57	6°42	19°47	15°56	3°43	27°52	13°59	15°16	15°52	24°40	W 4
T 5	20 52 39	12°20'04	9♂1	22°58	6°43	28°33	6°52	19°44	15°56	3°44	27°53	13°56	15°13	15°58	24°41	T 5
F 6	20 56 36	13°17'30	23°33	24°10	7°57	29°10	7° 2	19°40	15°57	3°46	27°54	13°53	15°10	16° 5	24°43	F 6
S 7	21 0 32	14°14'56	8♂24	25°27	9°11	29°47	7°12	19°37	15°58	3°48	27°55	13°49	15° 6	16°12	24°44	S 7
S 8	21 4 29	15°12'24	23°26	26°49	10°25	0♂25	7°22	19°34	15°58	3°50	27°56	13°45	15° 3	16°19	24°45	S 8
M 9	21 8 26	16° 9'52	8♂31	28°17	11°39	1° 2	7°32	19°30	15°59	3°52	27°57	13°42	15° 0	16°25	24°47	M 9
T 10	21 12 22	17° 7'22	23°29	29°48	12°53	1°39	7°42	19°27	16° 0	3°53	27°58	13°39	14°57	16°32	24°48	T 10
W11	21 16 19	18° 4'52	8♂12	1♂24	14° 7	2°16	7°52	19°23	16° 1	3°55	27°59	13°D38	14°54	16°39	24°49	W11
T 12	21 20 15	19° 2'24	22°34	3° 5	15°21	2°54	8° 3	19°20	16° 2	3°57	28° 0	13°39	14°50	16°45	24°50	T 12
F 13	21 24 12	19°59'56	6♂30	4°49	16°35	3°31	8°13	19°16	16° 3	3°58	28° 1	13°40	14°47	16°52	24°51	F 13
S 14	21 28 8	20°57'29	2♂ 0	6°36	17°49	4° 9	8°24	19°13	16° 4	4° 0	28° 3	13°41	14°44	16°59	24°52	S 14
S 15	21 32 5	21°55'03	3♂4	8°26	19° 3	4°46	8°34	19° 9	16° 5	4° 2	28° 4	13°42	14°41	17° 5	24°53	S 15
M16	21 36 1	22°52'37	15°46	10°20	20°17	5°24	8°45	19° 5	16° 6	4° 3	28° 5	13°43	14°38	17°12	24°54	M16
T 17	21 39 58	23°50'13	28°10	12°15	21°31	6° 2	8°56	19° 1	16° 7	4° 5	28° 6	13°R43	14°35	17°19	24°55	T 17
W18	21 43 54	24°47'50	10♂19	14°12	22°45	6°39	9° 7	18°57	16° 8	4° 6	28° 8	13°43	14°31	17°26	24°56	W18
T 19	21 47 51	25°45'27	22°19	16°11	23°59	7°17	9°17	18°53	16°10	4° 8	28° 9	13°41	14°28	17°32	24°56	T 19
F 20	21 51 48	26°43'06	4♂12	18°11	25°14	7°55	9°28	18°49	16°11	4°10	28°10	13°39	14°25	17°39	24°57	F 20
S 21	21 55 44	27°40'45	16° 3	20°12	26°28	8°33	9°40	18°45	16°12	4°11	28°12	13°36	14°22	17°46	24°58	S 21
S 22	21 59 41	28°38'26	27°56	22°14	27°42	9°11	9°51	18°41	16°14	4°13	28°13	13°34	14°19	17°52	24°58	S 22
M23	22 3 37	29°36'08	9♂52	24°15	28°56	9°49	10° 2	18°37	16°15	4°14	28°15	13°32	14°15	17°59	24°59	M23
T 24	22 7 34	0♂33'51	21°55	26°17	0♂10	10°27	10°13	18°33	16°17	4°15	28°16	13°31	14°12	18° 6	24°59	T 24
W25	22 11 30	1°31'35	4♂6	28°18	1°25	11° 5	10°24	18°28	16°18	4°17	28°18	13°30	14° 9	18°12	24°59	W25
T 26	22 15 27	2°29'21	16°27	0♂19	2°39	11°44	10°36	18°24	16°20	4°18	28°19	13°D30	14° 6	18°19	25° 0	T 26
F 27	22 19 23	3°27'08	28°59	2°19	3°53	12°22	10°47	18°20	16°21	4°20	28°21	13°30	14° 3	18°26	25° 0	F 27
S 28	22 23 20	4°24'56	11♂43	4°18	5° 7	13° 0	10°59	18°15	16°23	4°21	28°22	13°31	14° 0	18°33	25° 0	S 28
S 29	22 27 17	5°22'47	24°41	6°17	6°22	13°39	11°10	18°11	16°25	4°22	28°24	13°31	13°56	18°39	25° 0	S 29
M30	22 31 13	6°20'39	7♂54	8°14	7°36	14°17	11°22	18° 6	16°27	4°23	28°26	13°32	13°53	18°46	25°R 0	M30
T 31	22 35 10	7♂18'32	21♂23	10♂10	8♂50	14♂56	11♂34	18♂2	16♂28	4♂25	28♂27	13♂33	13♂50	18♂53	25♂0	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	18n 7	8n14	2n40	19n43	2s21	20n30	0n47	2n 9	0n39	1s23	1n11	5s54	2s 5	16s15	0n21	22n14
M 2	17 52	14 0	3 36	19 51	2 6	20 15	0 49	1 54	0 39	1 27	1 11	5 55	2 5	16 15	0 21	22 14
T 3	17 36	19 17	4 23	19 58	1 51	20 0	0 51	1 38	0 38	1 31	1 11	5 57	2 5	16 15	0 21	22 14
W 4	17 21	23 44	4 55	20 4	1 35	19 44	0 53	1 23	0 37	1 34	1 11	5 58	2 5	16 16	0 21	22 13
T 5	17 5	26 54	5 11	20 8	1 20	19 27	0 55	1 8	0 36	1 38	1 11	5 59	2 6	16 16	0 21	22 13
F 6	16 49	28 23	5 8	20 11	1 5	19 10	0 57	0 52	0 36	1 43	1 10	6 1	2 6	16 16	0 21	22 13
S 7	16 32	27 53	4 44	20 12	0 50	18 53	0 58	0 37	0 35	1 47	1 10	6 2	2 6	16 16	0 20	22 13
S 8	16 15	25 20	4 1	20 11	0 36	18 34	1 0	0 22	0 34	1 51	1 10	6 4	2 6	16 16	0 20	22 13
M 9	15 58	21 1	3 1	20 8	0 22	18 16	1 2	0 6	0 34	1 55	1 10	6 5	2 6	16 17	0 20	22 13
T 10	15 41	15 23	1 48	20 2	0 8	17 56	1 3	0s 9	0 33	1 59	1 10	6 7	2 6	16 17	0 20	22 13
W11	15 24	8 57	0 30	19 54	0n 5	17 37	1 5	0 25	0 32	2 3	1 10	6 8	2 7	16 17	0 20	22 13
T 12	15 6	2 12	0s49	19 44	0 17	17 16	1 6	0 40	0 31	2 7	1 10	6 10	2 7	16 17	0 20	22 13
F 13	14 48	4s27	2 2	19 30	0 29	16 56	1 8	0 56	0 31	2 12	1 9	6 11	2 7	16 18	0 20	22 13
S 14	14 30	10 41	3 7	19 15	0 40	16 34	1 9	1 11	0 30	2 16	1 9	6 13	2 7	16 18	0 20	22 13
S 15	14 11	16 16	3 59	18 56	0 50	16 13	1 10	1 27	0 29	2 20	1 9	6 15	2 7	16 18	0 20	22 13
M16	13 52	20 59	4 39	18 35	0 59	15 50	1 12	1 42	0 29	2 24	1 9	6 16	2 7	16 19	0 20	22 13
T 17	13 34	24 40	5 4	18 11	1 8	15 28	1 13	1 58	0 28	2 29	1 9	6 18	2 8	16 19	0 20	22 13
W18	13 14	27 9	5 15	17 45	1 16	15 5	1 14	2 13	0 27	2 33	1 9	6 20	2 8	16 20	0 20	22 13
T 19	12 55	28 22	5 12	17 16	1 22	14 42	1 15	2 29	0 27	2 38	1 9	6 21	2 8	16 20	0 20	22 12
F 20	12 36	28 16	4 55	16 45	1 28	14 18	1 16	2 44	0 26	2 42	1 8	6 23	2 8	16 20	0 20	22 12
S 21	12 16	26 51	4 26	16 12	1 33	13 54	1 17	3 0	0 25	2 46	1 8	6 25	2 8	16 21	0 20	22 12
S 22	11 56	24 14	3 46	15 37	1 37	13 29	1 18	3 16	0 24	2 51	1 8	6 27	2 8	16 21	0 20	22 12
M23	11 36	20 34	2 55	15 0	1 40	13 4	1 19	3 31	0 24	2 55	1 8	6 28	2 9	16 22	0 20	22 12
T 24	11 16	16 1	1 57	14 21	1 43	12 39	1 20	3 47	0 23	3 0	1 8	6 30	2 9	16 22	0 20	22 12
W25	10 55	10 48	0 52	13 41	1 45	12 13	1 21	4 2	0 22	3 5	1 8	6 32	2 9	16 23	0 20	22 12
T 26	10 35	5 5	0n16	13 0	1 46	11 47	1 21	4 18	0 22	3 9	1 8	6 34	2 9	16 23	0 20	22 12
F 27	10 14	0n53	1 25	12 17	1 46	11 21	1 22	4 33	0 21	3 14	1 8	6 35	2 9	16 23	0 20	22 12
S 28	9 53	6 56	2 30	11 33	1 45	10 54	1 23	4 49	0 20	3 18	1 8	6 37	2 9	16 24	0 20	22 12
S 29	9 32	12 47	3 29	10 49	1 44	10 27	1 23	5 5	0 20	3 23	1 7	6 39	2 9	16 25	0 20	22 12
M30	9 10	18 11	4 18	10 3	1 42	10 0	1 24	5 20	0 19	3 28	1 7	6 41	2 9	16 25	0 20	22 12
T 31	8n49	22n49	4n54	9n18	1n40	9n33	1n24	5s36	0n18	3s32	1n 7	6s43	2s 9	16s26	0n20	22n12

Julian Day Number = 2535762.5, Delta T = 196.02 sec
 Ecliptic obliquity = 23°24'42, Nutation = 0°00'05, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°57'46, Lahiri = 27°04'47

ASTRODIENST EPHEMERIS for the year 2230

geocentric

SEPTEMBER 2230

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	22 39 6	8 ¹⁶ 16'28	5 ¹¹ 9	12 ¹⁷ 5	10 ¹⁷ 5	15 ¹⁵ 34	11 ¹¹ 45	17°R57	16 ¹⁶ 30	4 ²⁶ 26	28 ²⁸ 29	13°R33	13 ¹³ 47	18 ¹⁸ 59	25°R 0	W 1
T 2	22 43 3	9°14'26	19°11	13°59	11°19	16°13	11°57	17 ¹⁷ 53	16°32	4°27	28°31	13 ¹³ 33	13°44	19°6	25 ²⁵ 0	T 2
F 3	22 46 59	10°12'25	3 ³ 59	15°52	12°34	16°52	12°9	17°48	16°34	4°28	28°32	13°33	13°41	19°13	25°0	F 3
S 4	22 50 56	11°10'26	17°59	17°43	13°48	17°30	12°21	17°44	16°36	4°29	28°34	13°32	13°37	19°19	25°0	S 4
S 5	22 54 52	12°8'30	2 ² 38	19°33	15°2	18°9	12°33	17°39	16°38	4°30	28°36	13°32	13°34	19°26	24°59	S 5
M 6	22 58 49	13°6'34	17°20	21°22	16°17	18°48	12°45	17°35	16°40	4°31	28°38	13°D32	13°31	19°33	24°59	M 6
T 7	23 2 46	14°4'41	1 ¹ 59	23°10	17°31	19°27	12°57	17°30	16°43	4°32	28°40	13°32	13°28	19°39	24°58	T 7
W 8	23 6 42	15°2'49	16°27	24°56	18°46	20°6	13°9	17°26	16°45	4°33	28°42	13°R32	13°25	19°46	24°58	W 8
T 9	23 10 39	16°0'59	0 ⁰ 40	26°41	20°0	20°45	13°21	17°21	16°47	4°34	28°43	13°32	13°21	19°53	24°57	T 9
F 10	23 14 35	16°59'11	14°33	28°25	21°15	21°25	13°34	17°16	16°49	4°35	28°45	13°32	13°18	20°0	24°57	F 10
S 11	23 18 32	17°57'24	28°3	0 ⁰ 8	22°29	22°4	13°46	17°12	16°52	4°36	28°47	13°31	13°15	20°6	24°56	S 11
S 12	23 22 28	18°55'39	11 ¹¹ 11	1°50	23°44	22°43	13°58	17°7	16°54	4°37	28°49	13°31	13°12	20°13	24°55	S 12
M13	23 26 25	19°53'55	23°56	3°30	24°58	23°22	14°11	17°3	16°56	4°38	28°51	13°30	13°9	20°20	24°55	M13
T 14	23 30 21	20°52'13	6 ⁶ 22	5°9	26°13	24°2	14°23	16°58	16°59	4°39	28°53	13°30	13°6	20°26	24°54	T 14
W15	23 34 18	21°50'33	18°33	6°47	27°27	24°41	14°35	16°53	17°1	4°40	28°55	13°D29	13°2	20°33	24°53	W15
T 16	23 38 15	22°48'54	0 ⁰ 33	8°24	28°42	25°21	14°48	16°49	17°4	4°40	28°57	13°29	12°59	20°40	24°52	T 16
F 17	23 42 11	23°47'16	12°26	10°0	29°56	26°1	15°0	16°44	17°7	4°41	28°59	13°30	12°56	20°46	24°51	F 17
S 18	23 46 8	24°45'40	24°17	11°35	1 ¹ 11	26°40	15°13	16°40	17°9	4°42	29°1	13°31	12°53	20°53	24°50	S 18
S 19	23 50 4	25°44'06	6 ⁶ 11	13°9	2°25	27°20	15°25	16°35	17°12	4°42	29°3	13°32	12°50	21°0	24°49	S 19
M20	23 54 1	26°42'33	18°12	14°41	3°40	28°0	15°38	16°31	17°14	4°43	29°6	13°33	12°47	21°7	24°47	M20
T 21	23 57 57	27°41'02	0 ⁰ 22	16°13	4°54	28°40	15°51	16°26	17°17	4°44	29°8	13°34	12°43	21°13	24°46	T 21
W22	0 1 54	28°39'33	12°45	17°43	6°9	29°19	16°3	16°22	17°20	4°44	29°10	13°R34	12°40	21°20	24°45	W22
T 23	0 5 50	29°38'05	25°21	19°13	7°24	29°59	16°16	16°17	17°23	4°45	29°12	13°34	12°37	21°27	24°43	T 23
F 24	0 9 47	0 ⁰ 36'40	8°Y13	20°41	8°38	0 ⁰ 39	16°29	16°13	17°26	4°45	29°14	13°33	12°34	21°33	24°42	F 24
S 25	0 13 44	1°35'16	21°20	22°8	9°53	1°19	16°41	16°9	17°28	4°46	29°16	13°31	12°31	21°40	24°41	S 25
S 26	0 17 40	2°33'55	4 ⁴ 41	23°34	11°7	2°0	16°54	16°4	17°31	4°46	29°18	13°28	12°27	21°47	24°39	S 26
M27	0 21 37	3°32'35	18°16	25°0	12°22	2°40	17°7	16°0	17°34	4°47	29°21	13°25	12°24	21°53	24°37	M27
T 28	0 25 33	4°31'18	2 ² 11	26°23	13°37	3°20	17°20	15°56	17°37	4°47	29°23	13°23	12°21	22°0	24°36	T 28
W29	0 29 30	5°30'03	15°58	27°46	14°51	4°0	17°33	15°52	17°40	4°47	29°25	13°21	12°18	22°7	24°34	W29
T 30	0 33 26	6 ⁶ 28'51	0 ⁰ 2	29°8	16°6	4 ⁴ 41	17°45	15°48	17 ¹⁷ 43	4 ⁴ 48	29°27	13°D20	12°15	22°13	24°32	T 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
W 1	8n27	26n16	5n14	8n31	1n37	9n5	1n24	5s51	0n18	3s37	1n7	6s45	2s10	16s26	0n20	22n12	1s9
T 2	8 6	28 13	5 15	7 44	1 34	8 37	1 25	6 7	0 17	3 42	1 7	6 46	2 10	16 27	0 20	22 11	1 9
F 3	7 44	28 20	4 58	6 57	1 30	8 9	1 25	6 22	0 16	3 46	1 7	6 48	2 10	16 27	0 20	22 11	1 9
S 4	7 22	26 32	4 22	6 10	1 26	7 40	1 25	6 37	0 16	3 51	1 7	6 50	2 10	16 28	0 20	22 11	1 9
S 5	7 0	22 55	3 28	5 23	1 21	7 12	1 25	6 53	0 15	3 56	1 7	6 52	2 10	16 29	0 20	22 11	1 9
M 6	6 38	17 51	2 20	4 36	1 17	6 43	1 25	7 8	0 14	4 0	1 7	6 54	2 10	16 29	0 20	22 11	1 9
T 7	6 15	11 45	1 4	3 48	1 11	6 14	1 25	7 24	0 14	4 5	1 7	6 56	2 10	16 30	0 20	22 11	1 9
W 8	5 53	5 5	0s16	3 1	1 6	5 44	1 25	7 39	0 13	4 10	1 7	6 58	2 10	16 30	0 20	22 11	1 9
T 9	5 31	1s42	1 34	2 14	1 0	5 15	1 25	7 54	0 12	4 15	1 6	6 59	2 10	16 31	0 20	22 11	1 9
F 10	5 8	8 15	2 44	1 27	0 54	4 46	1 24	8 10	0 12	4 20	1 6	7 1	2 10	16 32	0 20	22 11	1 9
S 11	4 45	14 14	3 43	0 40	0 47	4 16	1 24	8 25	0 11	4 24	1 6	7 3	2 10	16 32	0 20	22 11	1 9
S 12	4 23	19 24	4 28	0s6	0 41	3 46	1 24	8 40	0 10	4 29	1 6	7 5	2 10	16 33	0 20	22 11	1 9
M13	4 0	23 33	4 59	0 52	0 34	3 16	1 23	8 55	0 10	4 34	1 6	7 7	2 10	16 34	0 20	22 11	1 9
T 14	3 37	26 30	5 14	1 38	0 27	2 46	1 23	9 10	0 9	4 39	1 6	7 9	2 10	16 35	0 20	22 11	1 9
W15	3 14	28 10	5 16	2 23	0 20	2 16	1 22	9 25	0 8	4 44	1 6	7 10	2 11	16 35	0 19	22 11	1 9
T 16	2 51	28 28	5 3	3 8	0 13	1 46	1 21	9 41	0 8	4 49	1 6	7 12	2 11	16 36	0 19	22 11	1 9
F 17	2 28	27 26	4 37	3 32	0 6	1 16	1 21	9 56	0 7	4 54	1 6	7 14	2 11	16 37	0 19	22 11	1 9
S 18	2 5	25 10	4 0	4 36	0s2	0 45	1 20	10 10	0 6	4 58	1 6	7 16	2 11	16 38	0 19	22 11	1 9
S 19	1 42	21 48	3 12	5 20	0 9	0 15	1 19	10 25	0 6	5 3	1 6	7 18	2 11	16 38	0 19	22 10	1 9
M20	1 18	17 31	2 16	6 2	0 17	0s16	1 18	10 40	0 5	5 8	1 6	7 19	2 11	16 39	0 19	22 10	1 9
T 21	0 55	12 28	1 12	6 45	0 24	0 46	1 17	10 55	0 4	5 13	1 6	7 21	2 11	16 40	0 19	22 10	1 9
W22	0 32	6 50	0 5	7 26	0 32	1 16	1 16	11 10	0 4	5 18	1 6	7 23	2 11	16 41	0 19	22 10	1 9
T 23	0 9	0 51	1n5	8 8	0 40	1 47	1 15	11 24	0 3	5 23	1 5	7 25	2 11	16 41	0 19	22 10	1 9
F 24	0s15	5n17	2 12	8 48	0 47	2 17	1 14	11 39	0 2	5 28	1 5	7 26	2 11	16 42	0 19	22 10	1 9
S 25	0 38	11 18	3 13	9 28	0 55	2 48	1 13	11 54	0 2	5 33	1 5	7 28	2 11	16 43	0 19	22 10	1 9
S 26	1 1	16 55	4 6	10 7	1 3	3 18	1 12	12 8	0 1	5 38	1 5	7 30	2 11	16 44	0 19	22 10	1 9
M27	1 24	21 48	4 45	10 45	1 10	3 48	1 10	12 22	0 1	5 43	1 5	7 31	2 11	16 45	0 19	22 10	1 10
T 28	1 48	25 35	5 8	11 23	1 18	4 18	1 9	12 37	0s0	5 48	1 5	7 33	2 11	16 46	0 19	22 10	1 10
W29	2 11	27 53	5 14	12 0	1 26	4 49	1 7	12 51	0 1	5 52	1 5	7 34	2 11	16 46	0 19	22 10	1 10
T 30	2s34	28n26	5n1	12s36	1s33	5s19	1n6	13s5	0s1	5s57	1n5	7s36	2s11	16s47	0n19	22n10	1s10

Julian Day Number = 2535793.5, Delta T = 196.12 sec

Ecliptic obliquity = 23°24'42, Nutation = 0°00'05, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°57'50, Lahiri = 27°04'51

ASTRODIENST EPHEMERIS for the year 2230

geocentric

OCTOBER 2230

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	0 37 23	7 ^h 27'40	14 ^h 11'	0 ^h 28'	17 ^h 20'	5 ^h 21'	17 ^h 58'	15 ^h R43	17 ^h 46'	4 ^h 48'	29 ^h 30'	13 ^h 20'	12 ^h 12'	22 ^h 20'	24 ^h R31	F 1
S 2	0 41 19	8 ^h 26'32	28 ^h 25'	1 ^h 47'	18 ^h 35'	6 ^h 2'	18 ^h 11'	15 ^h 39'	17 ^h 49'	4 ^h 48'	29 ^h 32'	13 ^h 21'	12 ^h 8'	22 ^h 27'	24 ^h 29'	S 2
S 3	0 45 16	9 ^h 25'26	12 ^h 24'	3 ^h 5'	19 ^h 50'	6 ^h 42'	18 ^h 24'	15 ^h 35'	17 ^h 52'	4 ^h 48'	29 ^h 34'	13 ^h 22'	12 ^h 5'	22 ^h 34'	24 ^h 27'	S 3
M 4	0 49 13	10 ^h 24'23	26 ^h 56'	4 ^h 21'	21 ^h 4'	7 ^h 23'	18 ^h 37'	15 ^h 31'	17 ^h 56'	4 ^h 48'	29 ^h 37'	13 ^h 23'	12 ^h 2'	22 ^h 40'	24 ^h 25'	M 4
T 5	0 53 9	11 ^h 23'21	11 ^h 17'	5 ^h 36'	22 ^h 19'	8 ^h 4'	18 ^h 50'	15 ^h 28'	17 ^h 59'	4 ^h 49'	29 ^h 39'	13 ^h R24	11 ^h 59'	22 ^h 47'	24 ^h 23'	T 5
W 6	0 57 6	12 ^h 22'22	25 ^h 12'	6 ^h 50'	23 ^h 34'	8 ^h 44'	19 ^h 3'	15 ^h 24'	18 ^h 2'	4 ^h 49'	29 ^h 41'	13 ^h 24'	11 ^h 56'	22 ^h 54'	24 ^h 21'	W 6
T 7	1 1 2	13 ^h 21'25	9 ^h 5'	8 ^h 1'	24 ^h 48'	9 ^h 25'	19 ^h 16'	15 ^h 20'	18 ^h 5'	4 ^h 49'	29 ^h 43'	13 ^h 22'	11 ^h 53'	23 ^h 0'	24 ^h 19'	T 7
F 8	1 4 59	14 ^h 20'30	22 ^h 43'	9 ^h 11'	26 ^h 3'	10 ^h 6'	19 ^h 29'	15 ^h 16'	18 ^h 8'	4 ^h R49	29 ^h 46'	13 ^h 18'	11 ^h 49'	23 ^h 7'	24 ^h 17'	F 8
S 9	1 8 55	15 ^h 19'37	6 ^h 4'	10 ^h 19'	27 ^h 18'	10 ^h 47'	19 ^h 42'	15 ^h 12'	18 ^h 12'	4 ^h 49'	29 ^h 48'	13 ^h 13'	11 ^h 46'	23 ^h 14'	24 ^h 14'	S 9
S 10	1 12 52	16 ^h 18'45	19 ^h 7'	11 ^h 25'	28 ^h 32'	11 ^h 28'	19 ^h 55'	15 ^h 9'	18 ^h 15'	4 ^h 49'	29 ^h 51'	13 ^h 8'	11 ^h 43'	23 ^h 20'	24 ^h 12'	S 10
M 11	1 16 48	17 ^h 17'56	1 ^h 51'	12 ^h 29'	29 ^h 47'	12 ^h 9'	20 ^h 8'	15 ^h 5'	18 ^h 18'	4 ^h 49'	29 ^h 53'	13 ^h 2'	11 ^h 40'	23 ^h 27'	24 ^h 10'	M 11
T 12	1 20 45	18 ^h 17'09	14 ^h 17'	13 ^h 31'	1 ^h 2'	12 ^h 50'	20 ^h 21'	15 ^h 2'	18 ^h 22'	4 ^h 48'	29 ^h 55'	12 ^h 57'	11 ^h 37'	23 ^h 34'	24 ^h 8'	T 12
W 13	1 24 42	19 ^h 16'23	26 ^h 28'	14 ^h 30'	2 ^h 16'	13 ^h 32'	20 ^h 34'	14 ^h 58'	18 ^h 25'	4 ^h 48'	29 ^h 58'	12 ^h 53'	11 ^h 33'	23 ^h 40'	24 ^h 5'	W 13
T 14	1 28 38	20 ^h 15'40	8 ^h 28'	15 ^h 26'	3 ^h 31'	14 ^h 13'	20 ^h 47'	14 ^h 55'	18 ^h 28'	4 ^h 48'	0 ^h 0'	12 ^h 51'	11 ^h 30'	23 ^h 47'	24 ^h 3'	T 14
F 15	1 32 35	21 ^h 14'58	20 ^h 20'	16 ^h 19'	4 ^h 46'	14 ^h 54'	21 ^h 0'	14 ^h 52'	18 ^h 32'	4 ^h 48'	0 ^h 2'	12 ^h D50	11 ^h 27'	23 ^h 54'	24 ^h 0'	F 15
S 16	1 36 31	22 ^h 14'17	2 ^h 11'	17 ^h 9'	6 ^h 0'	15 ^h 36'	21 ^h 13'	14 ^h 49'	18 ^h 35'	4 ^h 48'	0 ^h 5'	12 ^h 50'	11 ^h 24'	24 ^h 0'	23 ^h 58'	S 16
S 17	1 40 28	23 ^h 13'39	14 ^h 5'	17 ^h 56'	7 ^h 15'	16 ^h 17'	21 ^h 26'	14 ^h 46'	18 ^h 39'	4 ^h 47'	0 ^h 7'	12 ^h 52'	11 ^h 21'	24 ^h 7'	23 ^h 56'	S 17
M 18	1 44 24	24 ^h 13'02	26 ^h 7'	18 ^h 38'	8 ^h 30'	16 ^h 59'	21 ^h 39'	14 ^h 43'	18 ^h 42'	4 ^h 47'	0 ^h 10'	12 ^h 53'	11 ^h 18'	24 ^h 14'	23 ^h 53'	M 18
T 19	1 48 21	25 ^h 12'27	8 ^h 21'	19 ^h 16'	9 ^h 44'	17 ^h 40'	21 ^h 52'	14 ^h 40'	18 ^h 46'	4 ^h 47'	0 ^h 12'	12 ^h R54	11 ^h 14'	24 ^h 21'	23 ^h 50'	T 19
W 20	1 52 17	26 ^h 11'54	20 ^h 51'	19 ^h 48'	10 ^h 59'	18 ^h 22'	22 ^h 5'	14 ^h 37'	18 ^h 49'	4 ^h 46'	0 ^h 14'	12 ^h 54'	11 ^h 11'	24 ^h 27'	23 ^h 48'	W 20
T 21	1 56 14	27 ^h 11'23	3 ^h 41'	20 ^h 16'	12 ^h 14'	19 ^h 3'	22 ^h 18'	14 ^h 34'	18 ^h 53'	4 ^h 46'	0 ^h 17'	12 ^h 52'	11 ^h 8'	24 ^h 34'	23 ^h 45'	T 21
F 22	2 0 10	28 ^h 10'53	16 ^h 52'	20 ^h 38'	13 ^h 28'	19 ^h 45'	22 ^h 31'	14 ^h 31'	18 ^h 56'	4 ^h 46'	0 ^h 19'	12 ^h 48'	11 ^h 5'	24 ^h 41'	23 ^h 42'	F 22
S 23	2 4 7	29 ^h 10'26	0 ^h 22'	20 ^h 54'	14 ^h 43'	20 ^h 27'	22 ^h 44'	14 ^h 29'	19 ^h 0'	4 ^h 45'	0 ^h 22'	12 ^h 42'	11 ^h 2'	24 ^h 47'	23 ^h 40'	S 23
S 24	2 8 4	0 ^h 10'00	14 ^h 11'	21 ^h 2'	15 ^h 58'	21 ^h 9'	22 ^h 57'	14 ^h 26'	19 ^h 3'	4 ^h 45'	0 ^h 24'	12 ^h 34'	10 ^h 58'	24 ^h 54'	23 ^h 37'	S 24
M 25	2 12 0	1 ^h 9'37	28 ^h 13'	21 ^h R 3'	17 ^h 12'	21 ^h 51'	23 ^h 10'	14 ^h 24'	19 ^h 7'	4 ^h 44'	0 ^h 26'	12 ^h 26'	10 ^h 55'	25 ^h 1'	23 ^h 34'	M 25
T 26	2 15 57	2 ^h 9'16	12 ^h 26'	20 ^h 57'	18 ^h 27'	22 ^h 33'	23 ^h 23'	14 ^h 22'	19 ^h 11'	4 ^h 44'	0 ^h 29'	12 ^h 19'	10 ^h 52'	25 ^h 7'	23 ^h 31'	T 26
W 27	2 19 53	3 ^h 8'57	26 ^h 43'	20 ^h 42'	19 ^h 42'	23 ^h 15'	23 ^h 36'	14 ^h 19'	19 ^h 14'	4 ^h 43'	0 ^h 31'	12 ^h 12'	10 ^h 49'	25 ^h 14'	23 ^h 29'	W 27
T 28	2 23 50	4 ^h 8'40	11 ^h 28'	20 ^h 18'	20 ^h 56'	23 ^h 57'	23 ^h 49'	14 ^h 17'	19 ^h 18'	4 ^h 42'	0 ^h 34'	12 ^h 8'	10 ^h 46'	25 ^h 21'	23 ^h 26'	T 28
F 29	2 27 46	5 ^h 8'26	25 ^h 14'	19 ^h 45'	22 ^h 11'	24 ^h 39'	24 ^h 2'	14 ^h 15'	19 ^h 22'	4 ^h 42'	0 ^h 36'	12 ^h 5'	10 ^h 43'	25 ^h 27'	23 ^h 23'	F 29
S 30	2 31 43	6 ^h 8'14	9 ^h 22'	19 ^h 3'	23 ^h 26'	25 ^h 21'	24 ^h 15'	14 ^h 13'	19 ^h 25'	4 ^h 41'	0 ^h 39'	12 ^h D 5'	10 ^h 39'	25 ^h 34'	23 ^h 20'	S 30
S 31	2 35 40	7 ^h 8'04	23 ^h 24'	18 ^h 12'	24 ^h 40'	26 ^h 4'	24 ^h 27'	14 ^h 11'	19 ^h 29'	4 ^h 40'	0 ^h 41'	12 ^h 6'	10 ^h 36'	25 ^h 34'	23 ^h 17'	S 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂	♂	♂	♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat	
F 1	2s57	27n 8	4n30	13s12	1s41	5s49	1n 4	13s19	0s 2	6s 2	1n 5	7s38	2s10	16s48	0n19	22n10	1s10	4n12	16n30	6s33	6s59	25s27	16n26
S 2	3 21	24 5	3 42	13 46	1 48	6 18	1 3	13 33	0 3	6 7	1 5	7 39	2 10	16 49	0 19	22 10	1 10	4 11	16 30	6 32	7 0	25 25	16 25
S 3	3 44	19 33	2 41	14 20	1 55	6 48	1 1	13 47	0 3	6 12	1 5	7 41	2 10	16 50	0 19	22 10	1 10	4 10	16 30	6 32	7 1	25 23	16 24
M 4	4 7	13 55	1 29	14 52	2 2	7 18	1 0	14 1	0 4	6 17	1 5	7 42	2 10	16 51	0 19	22 10	1 10	4 9	16 30	6 31	7 2	25 22	16 24
T 5	4 30	7 35	0 12	15 24	2 9	7 47	0 58	14 15	0 5	6 22	1 5	7 44	2 10	16 52	0 19	22 10	1 10	4 8	16 30	6 31	7 4	25 20	16 23
W 6	4 53	0 56	1s 4	15 55	2 16	8 16	0 56	14 29	0 5	6 27	1 5	7 45	2 10	16 53	0 19	22 10	1 10	4 7	16 29	6 31	7 5	25 18	16 22
T 7	5 16	5s41	2 16	16 25	2 22	8 45	0 54	14 42	0 6	6 32	1 5	7 47	2 10	16 54	0 19	22 10	1 10	4 6	16 29	6 32	7 6	25 17	16 22
F 8	5 39	11 54	3 18	16 53	2 29	9 14	0 52	14 56	0 6	6 37	1 5	7 48	2 10	16 55	0 19	22 10	1 10	4 5	16 29	6 33	7 7	25 15	16 21
S 9	6 2	17 26	4 9	17 21	2 35	9 43	0 50	15 9	0 7	6 42	1 5	7 49	2 10	16 55	0 19	22 10	1 10	4 4	16 29	6 35	7 8	25 13	16 20
S 10	6 24	22 2	4 44	17 47	2 40	10 11	0 48	15 23	0 8	6 47	1 5	7 51	2 10	16 56	0 19	22 10	1 10	4 3	16 29	6 37	7 10	25 11	16 20
M 11	6 47	25 29	5 5	18 12	2 46	10 40	0 46	15 36	0 8	6 52	1 5	7 52	2 10	16 57	0 19	22 10	1 10	4 2	16 29	6 39	7 11	25 10	16 19
T 12	7 10	27 38	5 11	18 36	2 51	11 8	0 44	15 49	0 9	6 56	1 5	7 53	2 10	16 58	0 19	22 10	1 10	4 2	16 29	6 41	7 12	25 8	16 18
W 13	7 32	28 24	5 3	18 58	2 56	11 35	0 42	16 2	0 10	7 1	1 5	7 54	2 10	16 59	0 19	22 10	1 10	4 1	16 28	6 43	7 13	25 6	16 17
T 14	7 55	27 49	4 41	19 19	3 0	12 3	0 40	16 15	0 10	7 6	1 5	7 56	2 10	17 0	0 19	22 9	1 10	4 0	16 28	6 44	7 14	25 4	16 17
F 15	8 17	25 57	4 7	19 39	3 4	12 30	0 38	16 28	0 11	7 11	1 5	7 57	2 10	17 1	0 19	22 9	1 10	3 59	16 28	6 44	7 16	25 3	16 16
S 16	8 39	22 57	3 23	19 56	3 8	12 57	0 36	16 40	0 11	7 16	1 5	7 58	2 9	17 2	0 19	22 9	1 10	3 58	16 28	6 44	7 17	25 1	16 15
S 17	9 1	18 59	2 30	20 12	3 11	13 23	0 34	16 53	0 12	7 21	1 5	7 59	2 9	17 3	0 19	22 9	1 10	3 57	16 28	6 43	7 18	24 59	16 14
M 18	9 23	14 13	1 30	20 26	3 13	13 50	0 31	17 5	0 13	7 26	1 5	8 0	2 9	17 4	0 19	22 9	1 10	3 56	16 28	6 43	7 19	24 57	16 13
T 19	9 45	8 49	0 25	20 38	3 14	14 15	0 29	17 18	0 13	7 31	1 5	8 1	2 9	17 5	0 19	22 9	1 10	3 56	16 28	6 42	7 21	24 56	16 13
W 20	10 6	2 58	0n43	20 48	3 15	14 41	0 27	17 30	0 14	7 35	1 5	8 2	2 9	17 6	0 19	22 9	1 10	3 55	16 28	6 42	7 22	24 54	16 12
T 21	10 28	3n 9	1 50	20 56	3 15	15 6	0 24	17 42	0 14	7 40	1 5	8 3	2 9	17 7	0 19	22 9	1 10	3 54	16 28	6 43	7 23	24 52	16 11
F 22	10 49	9 17	2 53	21 0	3 14	15 31	0 22	17 54	0 15	7 45	1 5	8 4	2 9	17 8	0 19	22 9	1 10	3 53	16 28	6 45	7 24	24 50	16 10
S 23	11 10	15 8	3 48	21 3	3 12	15 55	0 20	18 5	0 16	7 50	1 5	8 5	2 9	17 9	0 19	22 9	1 10	3 52	16 28	6 47	7 25	24 48	16 9
S 24	11 31	20 22	4 30	21 2	3 9	16 19	0 17	18 17	0 16	7 55	1 5	8 6	2 9	17 10	0 19	22 9	1 10	3 51	16 28	6 50	7 27	24 46	16 9
M 25	11 52	24 34	4 57	20 58	3 4	16 43	0 15	18 29	0 17	7 59	1 5	8 7	2 8	17 11	0 19	22 9	1 10	3 51	16 28	6 53	7 28	24 45	16 8
T 26	12 12	27 19	5 7	20 51	2 59	17 6	0 12	18 40	0 17	8 4	1 5	8 7	2 8	17 12	0 19	22 9	1 10	3 50	16 28	6 56	7 29	24 43	16 7
W 27	12 33	28 19	4 57	20 39	2 51	17 29	0 10	18 51	0 18	8 9	1 5	8 8	2 8	17 13	0 19	22 9	1 10	3 49	16 28	6 59	7 30	24 41	16 6
T 28	12 53	27 25	4 29	20 24	2 42	17 51	0 7	19 2	0 19	8 14	1 5	8 9	2 8	17 14	0 19	22 9	1 10	3 48	16 28	7 0	7 31	24 39	16 5
F 29	13 13	24 44	3 44	20 5	2 32	18 13	0 5	19 13	0 19	8 18	1 5	8 10	2 8	17 15	0 19	22 9	1 10	3 47	16 28	7 1	7 33	24 37	16 4
S 30	13 33	20 33	2 46	19 42	2 19	18 34	0 2	19 24	0 20	8 23	1 5	8 10	2 8	17 16	0 19	22 9	1 10	3 47	16 28	7 1	7 34	24 35	16 4
S 31	13s53	15n15	1n39	19s14	2s 5	18s55	0s 0	19s35	0s20	8s28	1n 5	8s11	2s 8	17s17	0n19	22n 9	1s11	3n46	16n28	7s 1	7s35	24s33	16n 3

ASTRODIENST EPHEMERIS for the year 2230
geocentric

NOVEMBER 2230

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	2 39 36	8♈ 7°56	7♏ 18°	17°R14	25♈55	26♈46	24♈40	14°R 9	19♈33	4°R39	0♈43	12°R 7	10♈33	25♈47	23°R14	M 1
T 2	2 43 33	9° 7°50	21° 4	16♈ 8	27°10	27°28	24°53	14°R 8	19°36	4°R39	0°46	12°R 6	10°30	25°54	23°R11	T 2
W 3	2 47 29	10° 7°47	4♈41	14°56	28°24	28°11	25° 6	14° 6	19°40	4°38	0°48	12° 4	10°27	26° 1	23° 8	W 3
T 4	2 51 26	11° 7°45	18° 9	13°40	29°39	28°53	25°19	14° 5	19°44	4°37	0°50	11°59	10°24	26° 7	23° 5	T 4
F 5	2 55 22	12° 7°46	1♈25	12°23	0♈54	29°36	25°32	14° 3	19°48	4°36	0°53	11°51	10°20	26°14	23° 2	F 5
S 6	2 59 19	13° 7°49	14°29	11° 6	2° 8	0♈19	25°44	14° 2	19°51	4°35	0°55	11°42	10°17	26°21	22°59	S 6
S 7	3 3 15	14° 7°53	27°19	9°51	3°23	1° 1	25°57	14° 1	19°55	4°34	0°58	11°30	10°14	26°28	22°56	S 7
M 8	3 7 12	15° 8°00	9♈54	8°43	4°38	1°44	26°10	14° 0	19°59	4°33	1° 0	11°18	10°11	26°34	22°53	M 8
T 9	3 11 8	16° 8°08	22°15	7°41	5°52	2°27	26°22	13°59	20° 2	4°32	1° 2	11° 7	10° 8	26°41	22°50	T 9
W10	3 15 5	17° 8°17	4♈24	6°49	7° 7	3°10	26°35	13°58	20° 6	4°31	1° 5	10°57	10° 4	26°48	22°47	W10
T11	3 19 2	18° 8°29	16°21	6° 7	8°22	3°53	26°48	13°57	20°10	4°30	1° 7	10°50	10° 1	26°54	22°44	T11
F12	3 22 58	19° 8°42	28°12	5°37	9°36	4°36	27° 0	13°57	20°14	4°29	1° 9	10°45	9°58	27° 1	22°41	F12
S13	3 26 55	20° 8°56	10♈ 1	5°18	10°51	5°19	27°13	13°56	20°17	4°28	1°12	10°43	9°55	27° 8	22°38	S13
S14	3 30 51	21° 9°12	21°52	5°D11	12° 6	6° 2	27°25	13°56	20°21	4°27	1°14	10°D43	9°52	27°14	22°34	S14
M15	3 34 48	22° 9°29	3♈52	5°15	13°20	6°45	27°38	13°55	20°25	4°26	1°16	10°43	9°49	27°21	22°31	M15
T16	3 38 44	23° 9°48	16° 5	5°29	14°35	7°28	27°50	13°55	20°29	4°25	1°19	10°R43	9°45	27°28	22°28	T16
W17	3 42 41	24°10°08	28°37	5°54	15°49	8°12	28° 2	13°55	20°32	4°24	1°21	10°42	9°42	27°34	22°25	W17
T18	3 46 37	25°10°29	11°V32	6°28	17° 4	8°55	28°15	13°D55	20°36	4°22	1°23	10°38	9°39	27°41	22°22	T18
F19	3 50 34	26°10°52	24°53	7°10	18°19	9°38	28°27	13°55	20°40	4°21	1°25	10°32	9°36	27°48	22°19	F19
S20	3 54 31	27°11°16	8♈39	7°59	19°33	10°22	28°39	13°55	20°44	4°20	1°28	10°23	9°33	27°54	22°16	S20
S21	3 58 27	28°11°42	22°49	8°54	20°48	11° 5	28°51	13°55	20°47	4°19	1°30	10°12	9°30	28° 1	22°13	S21
M22	4 2 24	29°12°10	7♈18	9°56	22° 2	11°49	29° 3	13°56	20°51	4°17	1°32	10° 0	9°26	28° 8	22°10	M22
T23	4 6 20	0♈12°39	21°59	11° 2	23°17	12°33	29°15	13°56	20°55	4°16	1°34	9°48	9°23	28°14	22° 7	T23
W24	4 10 17	1°13°10	6♈44	12°12	24°32	13°16	29°27	13°57	20°59	4°15	1°36	9°38	9°20	28°21	22° 4	W24
T25	4 14 13	2°13°43	21°24	13°26	25°46	14° 0	29°39	13°58	21° 2	4°13	1°39	9°31	9°17	28°28	22° 0	T25
F26	4 18 10	3°14°17	5♈55	14°43	27° 1	14°44	29°51	13°58	21° 6	4°12	1°41	9°26	9°14	28°34	21°57	F26
S27	4 22 7	4°14°53	20°12	16° 3	28°15	15°28	0♈ 3	13°59	21°10	4°10	1°43	9°24	9°10	28°41	21°54	S27
S28	4 26 3	5°15°30	4♈13	17°25	29°30	16°12	0°15	14° 0	21°13	4° 9	1°45	9°24	9° 7	28°48	21°51	S28
M29	4 30 0	6°16°10	17°58	18°49	0♈44	16°56	0°27	14° 1	21°17	4° 7	1°47	9°24	9° 4	28°54	21°48	M29
T30	4 33 56	7♈16°51	1♈29	20♈14	1♈59	17♈40	0♈38	14°R 3	21♈21	4°R 6	1♈49	9°R23	9°R 1	29°R 1	21°R45	T30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
M 1	14s12	9n13	0n26	18s42	1s49	19s16	0s 3	19s45	0s21	8s32	1n 5	8s11	2s 8	17s18	0n19	22n 9	1s11	3n45	16n28	7s 1	7s36	24s32	16n 2	2s37				
T 2	14 31	2 48	0s48	18 7	1 32	19 36	0 6	19 55	0 21	8 37	1 5	8 12	2 7	17 19	0 19	22 9	1 11	3 45	16 28	7 1	7 37	24 30	16 1	2 37				
W 3	14 50	3s40	1 58	17 28	1 13	19 55	0 8	20 5	0 22	8 42	1 5	8 12	2 7	17 20	0 19	22 9	1 11	3 44	16 28	7 2	7 39	24 28	16 0	2 37				
T 4	15 9	9 53	3 0	16 46	0 53	20 14	0 11	20 15	0 23	8 46	1 5	8 13	2 7	17 21	0 19	22 9	1 11	3 43	16 28	7 4	7 40	24 26	15 59	2 37				
F 5	15 27	15 34	3 51	16 3	0 33	20 32	0 13	20 25	0 23	8 51	1 5	8 13	2 7	17 22	0 19	22 9	1 11	3 42	16 28	7 6	7 41	24 24	15 58	2 37				
S 6	15 46	20 27	4 30	15 20	0 12	20 49	0 16	20 35	0 24	8 55	1 5	8 14	2 7	17 23	0 19	22 9	1 11	3 42	16 28	7 10	7 42	24 22	15 57	2 37				
S 7	16 4	24 18	4 54	14 37	0n 8	21 7	0 18	20 44	0 24	9 0	1 5	8 14	2 7	17 24	0 19	22 9	1 11	3 41	16 29	7 15	7 43	24 20	15 57	2 37				
M 8	16 21	26 54	5 3	13 57	0 28	21 23	0 21	20 53	0 25	9 5	1 5	8 14	2 7	17 25	0 19	22 9	1 11	3 40	16 29	7 19	7 45	24 18	15 56	2 38				
T 9	16 39	28 8	4 57	13 19	0 47	21 39	0 24	21 3	0 25	9 9	1 5	8 14	2 6	17 26	0 19	22 9	1 11	3 40	16 29	7 23	7 46	24 16	15 55	2 38				
W10	16 56	27 58	4 38	12 46	1 4	21 54	0 26	21 11	0 26	9 14	1 5	8 15	2 6	17 27	0 19	22 9	1 11	3 39	16 29	7 27	7 47	24 14	15 54	2 38				
T11	17 13	26 30	4 7	12 17	1 20	22 9	0 29	21 20	0 27	9 18	1 5	8 15	2 6	17 28	0 19	22 9	1 11	3 38	16 29	7 30	7 48	24 12	15 53	2 38				
F12	17 29	23 51	3 26	11 54	1 34	22 23	0 31	21 29	0 27	9 23	1 5	8 15	2 6	17 29	0 19	22 9	1 11	3 38	16 29	7 31	7 49	24 10	15 52	2 38				
S13	17 46	20 13	2 36	11 36	1 46	22 36	0 34	21 37	0 28	9 27	1 5	8 15	2 6	17 30	0 19	22 9	1 11	3 37	16 29	7 32	7 51	24 9	15 51	2 38				
S14	18 2	15 45	1 38	11 24	1 56	22 49	0 36	21 45	0 28	9 31	1 5	8 15	2 6	17 31	0 19	22 9	1 11	3 37	16 30	7 33	7 52	24 7	15 51	2 38				
M15	18 17	10 39	0 36	11 18	2 5	23 1	0 39	21 53	0 29	9 36	1 6	8 15	2 5	17 32	0 19	22 9	1 11	3 36	16 30	7 32	7 53	24 5	15 50	2 38				
T16	18 33	5 3	0n29	11 16	2 11	23 12	0 41	22 1	0 29	9 40	1 6	8 15	2 5	17 33	0 19	22 9	1 11	3 36	16 30	7 32	7 54	24 3	15 49	2 38				
W17	18 48	0n53	1 34	11 20	2 16	23 23	0 44	22 8	0 30	9 45	1 6	8 15	2 5	17 34	0 19	22 9	1 11	3 35	16 30	7 33	7 55	24 1	15 48	2 38				
T18	19 2	6 57	2 36	11 28	2 19	23 33	0 46	22 16	0 30	9 49	1 6	8 15	2 5	17 35	0 19	22 9	1 11	3 34	16 30	7 34	7 57	23 59	15 47	2 39				
F19	19 17	12 54	3 31	11 40	2 21	23 42	0 49	22 23	0 31	9 53	1 6	8 14	2 5	17 36	0 19	22 10	1 11	3 34	16 31	7 37	7 58	23 57	15 46	2 39				
S20	19 30	18 25	4 16	11 55	2 22	23 51	0 51	22 30	0 32	9 57	1 6	8 14	2 5	17 37	0 18	22 10	1 11	3 33	16 31	7 40	7 59	23 55	15 45	2 39				
S21	19 44	23 5	4 47	12 13	2 21	23 59	0 53	22 37	0 32	10 2	1 6	8 14	2 4	17 38	0 18	22 10	1 11	3 33	16 31	7 44	8 0	23 53	15 44	2 39				
M22	19 57	26 26	5 0	12 34	2 20	24 6	0 56	22 43	0 33	10 6	1 6	8 14	2 4	17 39	0 18	22 10	1 11	3 32	16 31	7 49	8 1	23 51	15 44	2 39				
T23	20 10	28 3	4 54	12 56	2 17	24 13	0 58	22 49	0 33	10 10	1 6	8 13	2 4	17 40	0 18	22 10	1 11	3 32	16 32	7 53	8 2	23 49	15 43	2 39				
W24	20 23	27 42	4 28	13 21	2 14	24 18	1 0	22 55	0 34	10 14	1 6	8 13	2 4	17 41	0 18	22 10	1 11	3 31	16 32	7 57	8 4	23 47	15 42	2 39				
T25	20 35	25 24	3 45	13 47	2 10	24 23	1 3	23 1	0 34	10 18	1 6	8 12	2 4	17 42	0 18	22 10	1 11	3 31	16 32	8 0	8 5	23 45	15 41	2 39				
F26	20 47	21 28	2 47	14 14	2 6	24 28	1 5	23 7	0 35	10 22	1 6	8 12	2 4	17 43	0 18	22 10	1 11	3 31	16 32	8 1	8 6	23 42	15 40	2 39				
S27	20 58	16 19	1 40	14 41	2 1	24 31	1 7	23 12	0 35	10 27	1 6	8 11	2 3	17 44	0 18	22 10	1 11	3 30	16 33	8 2	8 7	23 40	15 39	2 39				
S28	21 9	10 23	0 27	15 10	1 56	24 34	1 9	23 17	0 36	10 31	1 6	8 11	2 3	17 45	0 18	22 10	1 11	3 30	16 33	8 2	8 8	23 38	15 39	2 39				
M29	21 20	4 4	0s45	15 38	1 50	24 36	1 11	23 22	0 36	10 35	1 6	8 10	2 3	17 46	0 18	22 10	1 11	3 29	16 33	8 2	8 10	23 36	15 38	2 39				
T30	21s30	2s20	1s54	16s 7	1n44	24s37	1s13	23s27	0s37	10s39	1n 7	8s10	2s 3	17s47	0n18	22n10	1s11	3n29	16n34	8s 3	8s11	23s34	15n37	2s39				

ASTRODIENST EPHEMERIS for the year 2230
geocentric

DECEMBER 2230

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	4 37 53	8♂17'33	14♂46	21♂41	3♂14	18♂24	0♂50	14♂4	21♂24	4♂R 5	1♂51	9♂R19	8♂58	29♂8	21♂R42	W 1
T 2	4 41 49	9°18'17	27°51	23° 9	4°28	19° 8	1° 2	14° 5	21°28	4♂3	1°53	9♂13	8°55	29°15	21♂40	T 2
F 3	4 45 46	10°19'03	10♂45	24°37	5°43	19°52	1°13	14° 7	21°31	4° 2	1°55	9° 4	8°51	29°21	21°37	F 3
S 4	4 49 42	11°19'50	23°29	26° 7	6°57	20°36	1°25	14° 9	21°35	4° 0	1°57	8°51	8°48	29°28	21°34	S 4
S 5	4 53 39	12°20'38	6♂2	27°37	8°12	21°21	1°36	14°10	21°39	3°58	1°59	8°37	8°45	29°35	21°31	S 5
M 6	4 57 36	13°21'28	18°24	29° 8	9°26	22° 5	1°47	14°12	21°42	3°57	2° 1	8°23	8°42	29°41	21°28	M 6
T 7	5 1 32	14°22'19	0♂35	0♂39	10°41	22°50	1°58	14°14	21°46	3°55	2° 3	8° 9	8°39	29°48	21°25	T 7
W 8	5 5 29	15°23'11	12°38	2°11	11°55	23°34	2°10	14°16	21°49	3°54	2° 5	7°56	8°36	29°55	21°22	W 8
T 9	5 9 25	16°24'04	24°32	3°43	13°10	24°19	2°21	14°19	21°53	3°52	2° 7	7°47	8°32	0♂1	21°20	T 9
F 10	5 13 22	17°24'58	6♂20	5°15	14°24	25° 3	2°32	14°21	21°56	3°51	2° 9	7°40	8°29	0° 8	21°17	F 10
S 11	5 17 18	18°25'52	18° 7	6°47	15°38	25°48	2°42	14°23	22° 0	3°49	2°11	7°36	8°26	0°15	21°14	S 11
S 12	5 21 15	19°26'47	29°56	8°20	16°53	26°33	2°53	14°26	22° 3	3°47	2°12	7°34	8°23	0°21	21°12	S 12
M13	5 25 11	20°27'43	11♂53	9°52	18° 7	27°17	3° 4	14°28	22° 7	3°46	2°14	7°D34	8°20	0°28	21° 9	M13
T14	5 29 8	21°28'40	24° 2	11°25	19°22	28° 2	3°15	14°31	22°10	3°44	2°16	7°R34	8°16	0°35	21° 6	T14
W15	5 33 5	22°29'37	6♂30	12°58	20°36	28°47	3°25	14°34	22°13	3°42	2°18	7°34	8°13	0°41	21° 4	W15
T16	5 37 1	23°30'35	19°22	14°31	21°50	29°32	3°36	14°36	22°17	3°41	2°19	7°31	8°10	0°48	21° 1	T16
F17	5 40 58	24°31'34	2♂41	16° 4	23° 5	0♂17	3°46	14°39	22°20	3°39	2°21	7°26	8° 7	0°55	20°59	F17
S18	5 44 54	25°32'33	16°29	17°37	24°19	1° 2	3°56	14°43	22°23	3°37	2°23	7°18	8° 4	1° 1	20°57	S18
S19	5 48 51	26°33'32	0♂47	19°10	25°33	1°47	4° 7	14°46	22°27	3°36	2°24	7° 8	8° 1	1° 8	20°54	S19
M20	5 52 47	27°34'33	15°29	20°44	26°48	2°32	4°17	14°49	22°30	3°34	2°26	6°57	7°57	1°15	20°52	M20
T21	5 56 44	28°35'34	0♂29	22°17	28° 2	3°17	4°27	14°52	22°33	3°32	2°28	6°46	7°54	1°21	20°49	T21
W22	6 0 41	29°36'36	15°37	23°51	29°16	4° 2	4°37	14°56	22°36	3°31	2°29	6°37	7°51	1°28	20°47	W22
T23	6 4 37	0♂37'38	0♂42	25°24	0♂30	4°47	4°46	14°59	22°40	3°29	2°31	6°30	7°48	1°35	20°45	T23
F24	6 8 34	1°38'41	15°36	26°58	1°45	5°33	4°56	15° 3	22°43	3°27	2°32	6°26	7°45	1°41	20°43	F24
S25	6 12 30	2°39'45	0♂11	28°32	2°59	6°18	5° 6	15° 7	22°46	3°25	2°34	6°D24	7°42	1°48	20°41	S25
S26	6 16 27	3°40'50	14°25	0♂7	4°13	7° 3	5°15	15°10	22°49	3°24	2°35	6°24	7°38	1°55	20°39	S26
M27	6 20 23	4°41'55	28°16	1°41	5°27	7°49	5°25	15°14	22°52	3°22	2°36	6°R25	7°35	2° 1	20°37	M27
T28	6 24 20	5°43'01	11♂45	3°16	6°41	8°34	5°34	15°18	22°55	3°20	2°38	6°25	7°32	2° 8	20°35	T28
W29	6 28 16	6°44'08	24°55	4°51	7°55	9°20	5°43	15°22	22°58	3°19	2°39	6°23	7°29	2°15	20°33	W29
T30	6 32 13	7°45'16	7♂48	6°26	9° 9	10° 5	5°52	15°26	23° 1	3°17	2°40	6°19	7°26	2°21	20°31	T30
F31	6 36 10	8♂46'24	20♂26	8♂1	10♂23	10♂51	6♂1	15♂31	23♂4	3♂15	2♂42	6♂12	7♂22	2♂28	20♂29	F31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
W 1	21s40	8s30	2s55	16s36	1n37	24s38	1s15	23s32	0s37	10s43	1n 7	8s 9	2s 3	17s48	0n18	22n10
T 2	21 49	14 13	3 46	17 4	1 31	24 38	1 17	23 36	0 38	10 46	1 7	8 8	2 3	17 49	0 18	22 10
F 3	21 58	19 13	4 24	17 33	1 24	24 37	1 19	23 40	0 38	10 50	1 7	8 8	2 2	17 50	0 18	22 10
S 4	22 7	23 17	4 49	18 1	1 17	24 35	1 21	23 44	0 39	10 54	1 7	8 7	2 2	17 51	0 18	22 10
S 5	22 15	26 12	4 59	18 28	1 10	24 32	1 23	23 47	0 39	10 58	1 7	8 6	2 2	17 51	0 18	22 10
M 6	22 23	27 48	4 55	18 55	1 3	24 29	1 25	23 50	0 40	11 2	1 7	8 5	2 2	17 52	0 18	22 10
T 7	22 30	28 2	4 37	19 21	0 56	24 25	1 27	23 53	0 40	11 6	1 7	8 4	2 2	17 53	0 18	22 10
W 8	22 37	26 55	4 7	19 47	0 48	24 21	1 28	23 56	0 41	11 9	1 7	8 3	2 2	17 54	0 18	22 10
T 9	22 43	24 35	3 27	20 12	0 41	24 15	1 30	23 59	0 41	11 13	1 7	8 2	2 1	17 55	0 18	22 10
F 10	22 49	21 12	2 37	20 36	0 34	24 9	1 32	24 1	0 42	11 17	1 8	8 1	2 1	17 56	0 18	22 10
S 11	22 55	16 59	1 41	20 59	0 27	24 2	1 33	24 3	0 42	11 20	1 8	8 0	2 1	17 57	0 18	22 10
S 12	23 0	12 7	0 40	21 21	0 20	23 55	1 34	24 5	0 43	11 24	1 8	7 59	2 1	17 58	0 18	22 10
M13	23 4	6 45	0n23	21 42	0 12	23 46	1 36	24 6	0 43	11 27	1 8	7 58	2 1	17 59	0 18	22 10
T14	23 8	1 3	1 26	22 2	0 5	23 37	1 37	24 8	0 44	11 31	1 8	7 57	2 1	18 0	0 18	22 10
W15	23 12	4n50	2 27	22 21	0s 2	23 27	1 38	24 9	0 44	11 34	1 8	7 55	2 1	18 0	0 18	22 10
T16	23 15	10 41	3 22	22 39	0 9	23 17	1 40	24 9	0 45	11 38	1 8	7 54	2 0	18 1	0 18	22 10
F17	23 18	16 17	4 9	22 56	0 16	23 6	1 41	24 10	0 45	11 41	1 8	7 53	2 0	18 2	0 18	22 11
S18	23 20	21 15	4 43	23 12	0 22	22 54	1 42	24 10	0 46	11 45	1 8	7 52	2 0	18 3	0 18	22 11
S19	23 22	25 11	5 0	23 27	0 29	22 41	1 43	24 10	0 46	11 48	1 9	7 50	2 0	18 4	0 18	22 11
M20	23 23	27 34	4 59	23 41	0 35	22 28	1 44	24 10	0 46	11 51	1 9	7 49	2 0	18 5	0 18	22 11
T21	23 24	28 2	4 37	23 53	0 42	22 14	1 45	24 9	0 47	11 54	1 9	7 47	2 0	18 5	0 18	22 11
W22	23 25	26 24	3 56	24 4	0 48	22 0	1 45	24 8	0 47	11 58	1 9	7 46	1 59	18 6	0 18	22 11
T23	23 25	22 52	2 58	24 14	0 54	21 45	1 46	24 7	0 48	12 1	1 9	7 44	1 59	18 7	0 18	22 11
F24	23 24	17 52	1 48	24 23	1 0	21 29	1 47	24 6	0 48	12 4	1 9	7 43	1 59	18 8	0 18	22 11
S25	23 23	11 55	0 33	24 30	1 6	21 13	1 47	24 4	0 49	12 7	1 9	7 41	1 59	18 9	0 18	22 11
S26	23 22	5 28	0s43	24 36	1 11	20 56	1 48	24 2	0 49	12 10	1 10	7 40	1 59	18 9	0 18	22 11
M27	23 20	1s 3	1 54	24 41	1 17	20 38	1 48	24 0	0 50	12 13	1 10	7 38	1 59	18 10	0 18	22 11
T28	23 17	7 21	2 57	24 44	1 22	20 20	1 49	23 58	0 50	12 16	1 10	7 36	1 59	18 11	0 18	22 11
W29	23 14	13 11	3 49	24 46	1 27	20 1	1 49	23 55	0 50	12 19	1 10	7 35	1 58	18 12	0 18	22 11
T30	23 11	18 19	4 28	24 47	1 31	19 42	1 49	23 52	0 51	12 22	1 10	7 33	1 58	18 12	0 18	22 11
F31	23s 7	22s33	4s53	24s46	1s36	19s22	1s49	23s49	0s51	12s24	1n10	7s31	1s58	18s13	0n18	22n11

Julian Day Number = 2535884.5, Delta T = 196.42 sec
Ecliptic obliquity = 23°24'41, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°58'03, Lahiri = 27°05'03