



Astrodienst Ephemeris Tables for the year 2090

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 2090

geocentric

JANUARY 2090

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 44 37	11°23'	12°56'	19°51'	14°39'	20°00'	8°25'	5°R25	8°52'	25°R 1	22°R28	3°R52	4°19'	25°34'	6°R18	S 1
M 2	6 48 33	12° 3'43	25° 9'	20°20'	15°54'	20°46'	8°37'	5°II21	8°54'	25°R 0	22°Y28	3°R38	4°16'	25°41'	6°R14	M 2
T 3	6 52 30	13° 4'53	7°12'	20°55'	17°10'	21°33'	8°50'	5°18'	8°56'	24°59'	22°28'	3°25'	4°13'	25°48'	6°10'	T 3
W 4	6 56 27	14° 6'03	19° 7'	21°36'	18°25'	22°19'	9° 2'	5°15'	8°59'	24°58'	22°28'	3°15'	4°10'	25°54'	6° 6'	W 4
T 5	7 0 23	15° 7'13	0°56'	22°23'	19°40'	23° 6'	9°14'	5°11'	9° 1'	24°57'	22°D28	3° 7'	4° 7'	26° 1'	6° 2'	T 5
F 6	7 4 20	16° 8'23	12°43'	23°13'	20°56'	23°52'	9°26'	5° 8'	9° 3'	24°56'	22°28'	3° 3'	4° 4'	26° 8'	5°58'	F 6
S 7	7 8 16	17° 9'33	24°31'	24° 8'	22°11'	24°39'	9°38'	5° 5'	9° 6'	24°54'	22°28'	3° 1'	4° 0'	26°14'	5°54'	S 7
S 8	7 12 13	18°10'42	6°Y26	25° 7'	23°27'	25°26'	9°50'	5° 2'	9° 8'	24°53'	22°28'	3°D 1	3°57'	26°21'	5°50'	S 8
M 9	7 16 9	19°11'51	18°33'	26° 9'	24°42'	26°12'	10° 1'	4°59'	9°11'	24°52'	22°28'	3°R 1	3°54'	26°28'	5°47'	M 9
T 10	7 20 6	20°12'59	0°57'	27°14'	25°58'	26°59'	10°13'	4°57'	9°13'	24°50'	22°28'	3° 1'	3°51'	26°34'	5°43'	T 10
W11	7 24 2	21°14'07	13°44'	28°21'	27°13'	27°46'	10°25'	4°54'	9°16'	24°49'	22°29'	2°59'	3°48'	26°41'	5°39'	W11
T 12	7 27 59	22°15'14	26°58'	29°30'	28°29'	28°33'	10°36'	4°52'	9°18'	24°48'	22°29'	2°54'	3°44'	26°48'	5°35'	T 12
F 13	7 31 56	23°16'21	10°II42	0°342	29°44'	29°20'	10°48'	4°49'	9°21'	24°46'	22°29'	2°47'	3°41'	26°54'	5°32'	F 13
S 14	7 35 52	24°17'27	24°55'	1°56'	0°559	0°56'	10°59'	4°47'	9°24'	24°45'	22°29'	2°37'	3°38'	27° 1'	5°28'	S 14
S 15	7 39 49	25°18'33	9°E34	3°11'	2°15'	0°53'	11°11'	4°45'	9°26'	24°44'	22°29'	2°27'	3°35'	27° 8'	5°24'	S 15
M16	7 43 45	26°19'38	24°32'	4°28'	3°30'	1°40'	11°22'	4°42'	9°29'	24°42'	22°30'	2°16'	3°32'	27°14'	5°21'	M16
T 17	7 47 42	27°20'43	9°R40	5°46'	4°46'	2°27'	11°33'	4°40'	9°32'	24°41'	22°30'	2° 7'	3°29'	27°21'	5°17'	T 17
W18	7 51 38	28°21'48	24°47'	7° 6'	6° 1'	3°14'	11°44'	4°39'	9°34'	24°39'	22°30'	2° 0'	3°25'	27°28'	5°13'	W18
T 19	7 55 35	29°22'52	9°II45	8°26'	7°16'	4° 1'	11°56'	4°37'	9°37'	24°38'	22°30'	1°55'	3°22'	27°34'	5°10'	T 19
F 20	7 59 32	0°23'55	24°25'	9°48'	8°32'	4°48'	12° 6'	4°35'	9°40'	24°36'	22°31'	1°53'	3°19'	27°41'	5° 6'	F 20
S 21	8 3 28	1°24'58	8°E44	11°11'	9°47'	5°35'	12°17'	4°33'	9°43'	24°35'	22°31'	1°D53	3°16'	27°48'	5° 3'	S 21
S 22	8 7 25	2°26'01	22°39'	12°35'	11° 2'	6°22'	12°28'	4°32'	9°46'	24°33'	22°31'	1°54'	3°13'	27°54'	5° 0'	S 22
M23	8 11 21	3°27'04	6°II12	13°59'	12°18'	7° 9'	12°39'	4°30'	9°49'	24°32'	22°32'	1°R54	3°10'	28° 1'	4°56'	M23
T 24	8 15 18	4°28'06	19°25'	15°25'	13°33'	7°56'	12°50'	4°29'	9°52'	24°30'	22°32'	1°53'	3° 6'	28° 8'	4°53'	T 24
W25	8 19 14	5°29'08	2°X20	16°51'	14°48'	8°43'	13° 0'	4°28'	9°55'	24°29'	22°33'	1°49'	3° 3'	28°14'	4°50'	W25
T 26	8 23 11	6°30'09	15° 0'	18°19'	16° 4'	9°31'	13°11'	4°27'	9°58'	24°27'	22°33'	1°44'	3° 0'	28°21'	4°47'	T 26
F 27	8 27 7	7°31'10	27°28'	19°47'	17°19'	10°18'	13°21'	4°26'	10° 1'	24°26'	22°34'	1°35'	2°57'	28°28'	4°43'	F 27
S 28	8 31 4	8°32'10	9°E46	21°15'	18°34'	11° 5'	13°31'	4°25'	10° 4'	24°24'	22°34'	1°25'	2°54'	28°34'	4°40'	S 28
S 29	8 35 1	9°33'10	21°54'	22°45'	19°49'	11°52'	13°41'	4°25'	10° 7'	24°22'	22°35'	1°15'	2°50'	28°41'	4°37'	S 29
M30	8 38 57	10°34'08	3°E56	24°15'	21° 5'	12°39'	13°51'	4°24'	10°10'	24°21'	22°35'	1° 4'	2°47'	28°48'	4°34'	M30
T 31	8 42 54	11°35'06	15°E51	25°E46	22°22'	13°27'	14°X 1	4°II23	10°X13	24°R19	22°Y36	0°E55	2°E44	28°E54	4°E31	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	22s58	17s53	4n56	20s21	2n42	23s23	0s46	22s56	1s 0	21s 0	0n42	19n17	1s57	8s56	0s45	13n30	0n21	7s15	17s12	1s32	1s43	9s57	16n23	6s54			
M 2	22 53	16 31	4 39	20 30	2 35	23 17	0 48	22 49	1 0	21 2	0 42	19 16	1 57	8 55	0 45	13 30	0 21	7 14	17 12	1 26	1 42	9 55	16 23	6 54			
T 3	22 47	14 25	4 10	20 40	2 27	23 9	0 50	22 42	1 1	21 4	0 42	19 16	1 56	8 55	0 45	13 31	0 21	7 14	17 11	1 21	1 41	9 54	16 23	6 54			
W 4	22 41	11 45	3 30	20 51	2 19	23 1	0 52	22 35	1 1	21 6	0 42	19 15	1 56	8 54	0 45	13 31	0 21	7 14	17 11	1 17	1 39	9 52	16 23	6 54			
T 5	22 34	8 37	2 41	21 2	2 11	22 52	0 54	22 27	1 1	21 7	0 42	19 15	1 56	8 53	0 45	13 31	0 21	7 14	17 10	1 15	1 38	9 51	16 23	6 54			
F 6	22 27	5 9	1 46	21 13	2 2	22 43	0 56	22 19	1 1	21 9	0 42	19 15	1 56	8 52	0 45	13 32	0 21	7 13	17 10	1 13	1 37	9 49	16 23	6 54			
S 7	22 19	1 29	0 45	21 25	1 53	22 33	0 58	22 11	1 2	21 11	0 42	19 15	1 55	8 51	0 45	13 32	0 21	7 13	17 10	1 12	1 35	9 48	16 24	6 54			
S 8	22 11	2n17	0s18	21 36	1 44	22 22	1 0	22 3	1 2	21 13	0 42	19 14	1 55	8 50	0 45	13 33	0 21	7 12	17 9	1 12	1 34	9 46	16 24	6 54			
M 9	22 3	6 0	1 22	21 47	1 35	22 11	1 1	21 55	1 2	21 15	0 42	19 14	1 55	8 49	0 45	13 33	0 21	7 12	17 9	1 12	1 33	9 44	16 24	6 54			
T 10	21 54	9 34	2 23	21 58	1 26	21 59	1 3	21 46	1 2	21 16	0 42	19 14	1 55	8 48	0 45	13 34	0 21	7 12	17 9	1 12	1 32	9 43	16 24	6 54			
W11	21 45	12 47	3 19	22 8	1 17	21 46	1 5	21 37	1 2	21 18	0 42	19 13	1 54	8 47	0 45	13 34	0 21	7 11	17 8	1 11	1 30	9 41	16 25	6 54			
T 12	21 35	15 29	4 6	22 18	1 8	21 32	1 6	21 28	1 3	21 20	0 42	19 13	1 54	8 46	0 45	13 34	0 21	7 11	17 8	1 9	1 29	9 40	16 25	6 54			
F 13	21 25	17 24	4 41	22 27	0 59	21 18	1 8	21 18	1 3	21 21	0 42	19 13	1 54	8 45	0 45	13 35	0 21	7 11	17 7	1 6	1 28	9 38	16 25	6 54			
S 14	21 15	18 20	5 0	22 35	0 50	21 3	1 10	21 8	1 3	21 23	0 42	19 13	1 54	8 44	0 45	13 35	0 21	7 10	17 7	1 3	1 27	9 36	16 25	6 54			
S 15	21 4	18 5	5 1	22 42	0 41	20 48	1 11	20 58	1 3	21 24	0 42	19 13	1 53	8 43	0 45	13 36	0 21	7 10	17 7	0 58	1 25	9 35	16 26	6 54			
M16	20 52	16 36	4 41	22 49	0 32	20 32	1 12	20 48	1 3	21 26	0 42	19 13	1 53	8 42	0 45	13 36	0 21	7 9	17 6	0 54	1 24	9 33	16 26	6 53			
T 17	20 41	13 57	4 1	22 54	0 24	20 15	1 14	20 38	1 3	21 27	0 42	19 12	1 53	8 41	0 45	13 37	0 21	7 9	17 6	0 50	1 23	9 32	16 26	6 53			
W18	20 29	10 21	3 4	22 59	0 15	19 58	1 15	20 27	1 3	21 29	0 42	19 12	1 53	8 40	0 45	13 37	0 21	7 8	17 6	0 48	1 22	9 30	16 26	6 53			
T 19	20 16	6 8	1 55	23 2	0 7	19 40	1 16	20 16	1 4	21 30	0 42	19 12	1 52	8 39	0 45	13 38	0 21	7 8	17 5	0 46	1 20	9 28	16 27	6 53			
F 20	20 3	1 36	0 40	23 5	0s 1	19 22	1 18	20 5	1 4	21 32	0 42	19 12	1 52	8 38	0 45	13 38	0 21	7 8	17 5	0 45	1 19	9 27	16 27	6 53			
S 21	19 50	2s54	0n37	23 6	0 9	19 3	1 19	19 54	1 4	21 33	0 42	19 12	1 52	8 37	0 45	13 39	0 21	7 7	17 5	0 45	1 18	9 25	16 27	6 53			
S 22	19 36	7 7	1 49	23 7	0 17	18 44	1 20	19 42	1 4	21 35	0 42	19 12	1 52	8 36	0 45	13 39	0 21	7 7	17 4	0 45	1 17	9 24	16 28	6 52			
M23	19 22	10 52	2 53	23 6	0 24	18 24	1 21	19 30	1 4	21 36	0 42	19 12	1 51	8 34	0 45	13 40	0 21	7 6	17 4	0 45	1 15	9 22	16 28	6 52			
T 24	19 8	13 57	3 46	23 4	0 32	18 3	1 22	19 18	1 4	21 37	0 42	19 12	1 51	8 33	0 45	13 41	0 21	7 6	17 3	0 45	1 14	9 21	16 28	6 52			
W25	18 53	16 16	4 27	23 0	0 39	17 42	1 23	19 6	1 4	21 39	0 42	19 12	1 51	8 32	0 45	13 41	0 21	7 5	17 3	0 44	1 13	9 19	16 29	6 52			
T 26	18 38	17 44	4 53	22 56	0 46	17 21	1 24	18 54	1 4	21 40	0 42	19 12	1 51	8 31	0 45	13 42	0 21	7 5	17 3	0 41	1 12	9 17	16 29	6 51			
F 27	18 23	18 19	5 5	22 50	0 52	16 59	1 25	18 41	1 4	21 41	0 42	19 12	1 50	8 30	0 45	13 42	0 21	7 4	17 2	0 38	1 10	9 16	16 29	6 51			
S 28	18 7	18 2	5 2	22 43	0 59	16 36	1 25	18 28	1 4	21 42	0 42	19 13	1 50	8 29	0 44	13 43	0 21	7 4	17 2	0 34	1 9	9 14	16 30	6 51			
S 29	17 51	16 56	4 46	22 35	1 5	16 13	1 26	18 15	1 5	21 44	0 42	19 13	1 50	8 28	0 44	13 43	0 21	7 3	17 2	0 30	1 8	9 13	16 30	6 51			
M30	17 35	15 5	4 18	22 50	1 11	15 50	1 27	18 2	1 5	21 45	0 42	19 13	1 50	8 26	0 44	13 44	0 21	7 3	17 1	0 26	1 6	9 11	16 31	6 50			
T 31	17s18	12s37	3n38	22s14	1s17	15s26	1s27	17s49	1s 5	21s46	0n42	19n13	1s49	8s25	0s44	13n44	0n21	7s 2	17s 1	0s22	1s 5	9s 9	16n31	6s50			

ASTRODIENST EPHEMERIS for the year 2090

geocentric

FEBRUARY 2090

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 46 50	12 ³⁶ 02	27 ⁴²	27 ¹⁸	23 ³⁵	14 ¹⁴	14 ¹¹	4 ²³	10 ¹⁶	24 ¹⁷	22 ³⁶	0 ⁴⁸	2 ⁴¹	29 ¹	4 ²⁹	W 1
T 2	8 50 47	13 ³⁶ 58	9 ²⁹	28 ⁵⁰	24 ⁵⁰	15 ¹	14 ²¹	4 ²³	10 ¹⁹	24 ¹⁶	22 ³⁷	0 ⁴³	2 ³⁸	29 ⁸	4 ²⁶	T 2
F 3	8 54 43	14 ³⁷ 52	21 ¹⁷	0 ²³	26 ⁶	15 ⁴⁹	14 ³¹	4 ²³	10 ²²	24 ¹⁴	22 ³⁷	0 ⁴¹	2 ³⁵	29 ¹⁴	4 ²³	F 3
S 4	8 58 40	15 ³⁸ 45	3 ⁷	1 ⁵⁷	27 ²¹	16 ³⁶	14 ⁴⁰	4 ²³	10 ²⁶	24 ¹³	22 ³⁸	0 ^{D40}	2 ³¹	29 ²¹	4 ²¹	S 4
S 5	9 2 36	16 ³⁹ 37	15 ³	3 ³¹	28 ³⁶	17 ²³	14 ⁴⁹	4 ²³	10 ²⁹	24 ¹¹	22 ³⁹	0 ⁴¹	2 ²⁸	29 ²⁸	4 ¹⁸	S 5
M 6	9 6 33	17 ⁴⁰ 27	27 ⁹	5 ⁷	29 ⁵¹	18 ¹⁰	14 ⁵⁹	4 ²³	10 ³²	24 ⁹	22 ³⁹	0 ⁴³	2 ²⁵	29 ³⁴	4 ¹⁵	M 6
T 7	9 10 29	18 ⁴¹ 16	9 ³¹	6 ⁴³	1 ⁶	18 ⁵⁸	15 ⁸	4 ²³	10 ³⁵	24 ⁷	22 ⁴⁰	0 ⁴⁴	2 ²²	29 ⁴¹	4 ¹³	T 7
W 8	9 14 26	19 ⁴² 04	22 ¹³	8 ¹⁹	2 ²¹	19 ⁴⁵	15 ¹⁷	4 ²⁴	10 ³⁹	24 ⁶	22 ⁴¹	0 ^{R44}	2 ¹⁹	29 ⁴⁸	4 ¹¹	W 8
T 9	9 18 23	20 ⁴² 50	5 ²⁰	9 ⁵⁷	3 ³⁶	20 ³²	15 ²⁶	4 ²⁴	10 ⁴²	24 ⁴	22 ⁴²	0 ⁴³	2 ¹⁶	29 ⁵⁴	4 ⁸	T 9
F 10	9 22 19	21 ⁴³ 34	18 ⁵⁵	11 ³⁵	4 ⁵¹	21 ²⁰	15 ³⁵	4 ²⁵	10 ⁴⁵	24 ²	22 ⁴²	0 ⁴⁰	2 ¹²	0 ¹	4 ⁶	F 10
S 11	9 26 16	22 ⁴⁴ 17	2 ⁵⁹	13 ¹⁴	6 ⁶	22 ⁷	15 ⁴³	4 ²⁶	10 ⁴⁸	24 ¹	22 ⁴³	0 ³⁶	2 ⁹	0 ⁸	4 ⁴	S 11
S 12	9 30 12	23 ⁴⁴ 59	17 ³¹	14 ⁵⁴	7 ²²	22 ⁵⁵	15 ⁵²	4 ²⁶	10 ⁵²	23 ⁵⁹	22 ⁴⁴	0 ³⁰	2 ⁶	0 ¹⁴	4 ²	S 12
M13	9 34 9	24 ⁴⁵ 39	2 ²⁷	16 ³⁵	8 ³⁷	23 ⁴²	16 ⁰	4 ²⁷	10 ⁵⁵	23 ⁵⁷	22 ⁴⁵	0 ²⁵	2 ³	0 ²¹	4 ⁰	M13
T 14	9 38 5	25 ⁴⁶ 17	17 ³⁸	18 ¹⁶	9 ⁵²	24 ²⁹	16 ⁹	4 ²⁹	10 ⁵⁸	23 ⁵⁶	22 ⁴⁶	0 ²⁰	2 ⁰	0 ²⁸	3 ⁵⁸	T 14
W15	9 42 2	26 ⁴⁶ 54	2 ⁵⁵	19 ⁵⁹	11 ⁶	25 ¹⁷	16 ¹⁷	4 ³⁰	11 ²	23 ⁵⁴	22 ⁴⁶	0 ¹⁶	1 ⁵⁶	0 ³⁴	3 ⁵⁶	W15
T 16	9 45 58	27 ⁴⁷ 29	18 ⁸	21 ⁴²	12 ²¹	26 ⁴	16 ²⁵	4 ³¹	11 ⁵	23 ⁵²	22 ⁴⁷	0 ¹⁴	1 ⁵³	0 ⁴¹	3 ⁵⁴	T 16
F 17	9 49 55	28 ⁴⁸ 03	3 ⁶	23 ²⁶	13 ³⁶	26 ⁵¹	16 ³³	4 ³²	11 ⁹	23 ⁵¹	22 ⁴⁸	0 ^{D13}	1 ⁵⁰	0 ⁴⁸	3 ⁵³	F 17
S 18	9 53 52	29 ⁴⁸ 36	17 ⁴³	25 ¹¹	14 ⁵¹	27 ³⁹	16 ⁴¹	4 ³⁴	11 ¹²	23 ⁴⁹	22 ⁴⁹	0 ¹⁴	1 ⁴⁷	0 ⁵⁴	3 ⁵¹	S 18
S 19	9 57 48	0 ⁴⁹ 08	1 ⁵⁴	26 ⁵⁷	16 ⁶	28 ²⁶	16 ⁴⁹	4 ³⁶	11 ¹⁵	23 ⁴⁷	22 ⁵⁰	0 ¹⁶	1 ⁴⁴	1 ¹	3 ⁵⁰	S 19
M20	10 1 45	1 ⁴⁹ 38	15 ³⁸	28 ⁴⁴	17 ²¹	29 ¹⁴	16 ⁵⁶	4 ³⁷	11 ¹⁹	23 ⁴⁶	22 ⁵¹	0 ¹⁷	1 ⁴¹	1 ⁸	3 ⁴⁸	M20
T 21	10 5 41	2 ⁵⁰ 07	28 ⁵⁷	0 ³¹	18 ³⁶	0 ¹	17 ³	4 ³⁹	11 ²²	23 ⁴⁴	22 ⁵²	0 ^{R18}	1 ³⁷	1 ¹⁴	3 ⁴⁷	T 21
W22	10 9 38	3 ⁵⁰ 35	11 ⁵³	2 ²⁰	19 ⁵¹	0 ⁴⁸	17 ¹¹	4 ⁴¹	11 ²⁶	23 ⁴²	22 ⁵³	0 ¹⁸	1 ³⁴	1 ²¹	3 ⁴⁵	W22
T 23	10 13 34	4 ⁵¹ 02	24 ³⁰	4 ¹⁰	21 ⁵	1 ³⁶	17 ¹⁸	4 ⁴³	11 ²⁹	23 ⁴¹	22 ⁵⁴	0 ¹⁶	1 ³¹	1 ²⁸	3 ⁴⁴	T 23
F 24	10 17 31	5 ⁵¹ 27	6 ⁵⁰	6 ⁰	22 ²⁰	2 ²³	17 ²⁵	4 ⁴⁶	11 ³²	23 ³⁹	22 ⁵⁵	0 ¹⁴	1 ²⁸	1 ³⁴	3 ⁴³	F 24
S 25	10 21 27	6 ⁵¹ 51	18 ⁵⁹	7 ⁵¹	23 ³⁵	3 ¹¹	17 ³²	4 ⁴⁸	11 ³⁶	23 ³⁷	22 ⁵⁶	0 ¹⁰	1 ²⁵	1 ⁴¹	3 ⁴²	S 25
S 26	10 25 24	7 ⁵² 13	0 ⁵⁸	9 ⁴³	24 ⁵⁰	3 ⁵⁸	17 ³⁸	4 ⁵⁰	11 ³⁹	23 ³⁶	22 ⁵⁷	0 ⁶	1 ²²	1 ⁴⁸	3 ⁴¹	S 26
M27	10 29 21	8 ⁵² 34	12 ⁵¹	11 ³⁶	26 ⁴	4 ⁴⁵	17 ⁴⁵	4 ⁵³	11 ⁴³	23 ³⁴	22 ⁵⁸	0 ³	1 ¹⁸	1 ⁵⁴	3 ⁴⁰	M27
T 28	10 33 17	9 ⁵² 53	24 ⁴¹	13 ²⁹	27 ¹⁹	5 ³³	17 ⁵¹	4 ⁵⁵	11 ⁴⁶	23 ³³	22 ⁵⁹	29 ⁵⁹	1 ¹⁵	2 ¹	3 ³⁹	T 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
W 1	17s 1	9s38	2n48	22s 2	1s22	15s 2	1s28	17s35	1s 5	21s47	0n43	19n13	1s49	8s24	0s44	13n45	0n21	7s 2	17s 1	0s19	1s 4	9s 8	16n31	6s50			
T 2	16 44	6 17	1 52	21 48	1 27	14 37	1 28	17 21	1 5	21 48	0 43	19 13	1 49	8 23	0 44	13 45	0 21	7 1	17 0	0 17	1 3	9 6	16 32	6 49			
F 3	16 26	2 41	0 51	21 33	1 32	14 12	1 28	17 7	1 5	21 49	0 43	19 14	1 49	8 22	0 44	13 46	0 21	7 1	17 0	0 16	1 1	9 4	16 32	6 49			
S 4	16 8	1n 2	0s13	21 17	1 37	13 47	1 29	16 53	1 5	21 50	0 43	19 14	1 48	8 20	0 44	13 47	0 21	7 0	17 0	0 16	1 0	9 3	16 33	6 49			
S 5	15 50	4 44	1 17	20 59	1 41	13 21	1 29	16 39	1 5	21 51	0 43	19 14	1 48	8 19	0 44	13 47	0 21	6 59	16 59	0 16	0 59	9 1	16 33	6 49			
M 6	15 32	8 18	2 19	20 41	1 45	12 55	1 29	16 24	1 5	21 52	0 43	19 14	1 48	8 18	0 44	13 48	0 21	6 59	16 59	0 17	0 58	9 0	16 33	6 48			
T 7	15 13	11 34	3 15	20 20	1 49	12 28	1 29	16 9	1 5	21 53	0 43	19 15	1 47	8 17	0 44	13 48	0 21	6 58	16 59	0 17	0 56	8 58	16 34	6 48			
W 8	14 54	14 23	4 4	19 59	1 52	12 1	1 29	15 55	1 5	21 54	0 43	19 15	1 47	8 15	0 44	13 49	0 21	6 58	16 58	0 18	0 55	8 56	16 34	6 47			
T 9	14 35	16 34	4 41	19 35	1 55	11 34	1 29	15 40	1 5	21 55	0 43	19 16	1 47	8 14	0 44	13 49	0 21	6 57	16 58	0 17	0 54	8 55	16 35	6 47			
F 10	14 15	17 54	5 5	19 11	1 58	11 7	1 29	15 24	1 5	21 56	0 43	19 16	1 47	8 13	0 44	13 50	0 21	6 57	16 58	0 16	0 53	8 53	16 35	6 47			
S 11	13 56	18 13	5 11	18 45	2 0	10 39	1 29	15 9	1 5	21 57	0 43	19 16	1 46	8 12	0 44	13 51	0 21	6 56	16 57	0 14	0 51	8 52	16 36	6 46			
S 12	13 36	17 21	4 58	18 18	2 2	10 11	1 29	14 54	1 5	21 58	0 43	19 17	1 46	8 10	0 44	13 51	0 21	6 56	16 57	0 12	0 50	8 50	16 36	6 46			
M13	13 16	15 19	4 24	17 49	2 4	9 42	1 29	14 38	1 5	21 59	0 43	19 17	1 46	8 9	0 44	13 52	0 21	6 55	16 57	0 10	0 49	8 48	16 36	6 46			
T 14	12 55	12 10	3 32	17 19	2 5	9 14	1 28	14 22	1 5	22 0	0 43	19 18	1 46	8 8	0 44	13 52	0 21	6 54	16 56	0 8	0 48	8 47	16 37	6 45			
W15	12 35	8 11	2 24	16 48	2 6	8 45	1 28	14 6	1 5	22 0	0 43	19 18	1 45	8 6	0 44	13 53	0 21	6 54	16 56	0 6	0 46	8 45	16 37	6 45			
T 16	12 14	3 41	1 6	16 15	2 6	8 16	1 27	13 50	1 5	22 1	0 43	19 19	1 45	8 5	0 44	13 53	0 21	6 53	16 56	0 6	0 45	8 43	16 38	6 44			
F 17	11 53	0s59	0n16	15 41	2 6	7 47	1 27	13 34	1 4	22 2	0 43	19 19	1 45	8 4	0 44	13 54	0 21	6 53	16 56	0 5	0 44	8 42	16 38	6 44			
S 18	11 32	5 29	1 35	15 6	2 6	7 17	1 26	13 17	1 4	22 3	0 43	19 20	1 44	8 3	0 44	13 55	0 21	6 52	16 55	0 6	0 43	8 40	16 39	6 44			
S 19	11 11	9 32	2 45	14 29	2 5	6 48	1 25	13 1	1 4	22 4	0 43	19 20	1 44	8 1	0 44	13 55	0 21	6 51	16 55	0 6	0 41	8 39	16 39	6 43			
M20	10 49	12 56	3 44	13 50	2 4	6 18	1 25	12 44	1 4	22 4	0 43	19 21	1 44	8 0	0 44	13 56	0 21	6 51	16 55	0 7	0 40	8 37	16 40	6 43			
T 21	10 27	15 32	4 29	13 11	2 2	5 48	1 24	12 28	1 4	22 5	0 43	19 21	1 44	7 59	0 44	13 56	0 21	6 50	16 54	0 7	0 39	8 35	16 40	6 42			
W22	10 6	17 16	4 58	12 30	1 59	5 17	1 23	12 11	1 4	22 6	0 43	19 22	1 43	7 57	0 44	13 57	0 21	6 50	16 54	0 7	0 37	8 34	16 41	6 42			
T 23	9 44	18 6	5 13	11 47	1 57	4 47	1 22	11 54	1 4	22 6	0 43	19 23	1 43	7 56	0 44	13 57	0 21	6 49	16 54	0 7	0 36	8 32	16 41	6 41			
F 24	9 21	18 3	5 12	11 4	1 53	4 17	1 21	11 37	1 4	22 7	0 43	19 23	1 43	7 55	0 44	13 58	0 21	6 48	16 54	0 5	0 35	8 30	16 42	6 41			
S 25	8 59	17 10	4 58	10 19	1 49	3 46	1 20	11 19	1 4	22 7	0 43	19 24	1 43	7 53	0 44	13 58	0 21	6 48	16 53	0 4	0 34	8 29	16 42	6 40			
S 26	8 37	15 32	4 30	9 32	1 45	3 16	1 19	11 2	1 4	22 8	0 43	19 25	1 42	7 52	0 44	13 59	0 21	6 47	16 53	0 3	0 32	8 27	16 43	6 40			
M27	8 14	13 15	3 51	8 45	1 40	2 46	1 18	10 45	1 4	22 9	0 43	19 25	1 42	7 51	0 44	13 59	0 21	6 47	16 53	0 1	0 31	8 25	16 43	6 40			
T 28	7s52	10s25	3n 3	7s56	1s34	2s14	1s16	10s27	1s 3	22s 9	0n43	19n26	1s42	7s50	0s44	14n 0	0n21	6s46	16s53	0n 0	0s30	8s24	16n44	6s39			

ASTRODIENST EPHEMERIS for the year 2090

geocentric

MARCH 2090

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	10 37 14	10 ^h 53'10"	6 ^h 29'	15 ^h 24'	28 ^h 34'	6 ^h 20'	17 ^h 58'	4 ^h 58'	11 ^h 50'	23°R31	23°V 0	29°R57	1 ^h 12'	2 ^h 8'	3°R39	W 1
T 2	10 41 10	11°53'26"	18°17'	17°18'	29°48'	7° 8'	18° 4'	5° 1'	11°53'	23°R29	23° 1'	29°R55	1° 9'	2°14'	3°R38	T 2
F 3	10 45 7	12°53'40"	0°V 9'	19°13'	1°V 3'	7°55'	18°10'	5° 4'	11°56'	23°R28	23° 2'	29°D55	1° 6'	2°21'	3°R3	F 3
S 4	10 49 3	13°53'52"	12° 5'	21° 8'	2°17'	8°42'	18°15'	5° 7'	12° 0'	23°26	23° 4'	29°55	1° 2'	2°28'	3°37	S 4
S 5	10 53 0	14°54'02"	24° 9'	23° 4'	3°32'	9°30'	18°21'	5°10'	12° 3'	23°25	23° 5'	29°56	0°59'	2°34'	3°37	S 5
M 6	10 56 56	15°54'10"	6 ^h 22'	24°59'	4°46'	10°17'	18°26'	5°13'	12° 7'	23°23	23° 6'	29°58	0°56'	2°41'	3°37	M 6
T 7	11 0 53	16°54'17"	18°50'	26°53'	6° 1'	11° 4'	18°32'	5°17'	12°10'	23°22	23° 7'	29°59	0°53'	2°48'	3°36	T 7
W 8	11 4 50	17°54'21"	1 ^h 33'	28°47'	7°15'	11°52'	18°37'	5°20'	12°14'	23°20	23° 8'	29°59	0°50'	2°54'	3°36	W 8
T 9	11 8 46	18°54'23"	14°37'	0°V 40'	8°30'	12°39'	18°42'	5°24'	12°17'	23°19	23° 9'	0°R 0	0°47'	3° 1'	3°D36	T 9
F 10	11 12 43	19°54'23"	28° 4'	2°32'	9°44'	13°26'	18°47'	5°27'	12°21'	23°17	23°11	0°R 0	0°43'	3° 8'	3°36	F 10
S 11	11 16 39	20°54'20"	11 ^h 55'	4°22'	10°58'	14°14'	18°51'	5°31'	12°24'	23°16	23°12	29°R59	0°40'	3°14'	3°37	S 11
S 12	11 20 36	21°54'16"	26°12'	6° 9'	12°12'	15° 1'	18°56'	5°35'	12°27'	23°14	23°13	29°59	0°37'	3°21'	3°37	S 12
M13	11 24 32	22°54'09"	10 ^h 15'	7°54'	13°27'	15°48'	19° 0'	5°39'	12°31'	23°13	23°14	29°58	0°34'	3°28'	3°37	M13
T 14	11 28 29	23°54'00"	25°47'	9°36'	14°41'	16°35'	19° 4'	5°43'	12°34'	23°11	23°15	29°57	0°31'	3°34'	3°38	T 14
W15	11 32 25	24°53'49"	10 ^h 55'	11°14'	15°55'	17°22'	19° 8'	5°47'	12°38'	23°10	23°17	29°57	0°27'	3°41'	3°38	W15
T 16	11 36 22	25°53'36"	26° 3'	12°47'	17° 9'	18°10'	19°12'	5°51'	12°41'	23° 9'	23°18	29°D57	0°24'	3°48'	3°39	T 16
F 17	11 40 18	26°53'21"	11 ^h 15'	14°16'	18°23'	18°57'	19°15'	5°55'	12°44'	23° 7'	23°19	29°57	0°21'	3°54'	3°39	F 17
S 18	11 44 15	27°53'04"	25°50'	15°40'	19°37'	19°44'	19°19'	6° 0'	12°48'	23° 6'	23°21	29°57	0°18'	4° 1'	3°40	S 18
S 19	11 48 12	28°52'45"	10 ^h 12'	16°59'	20°51'	20°31'	19°22'	6° 4'	12°51'	23° 5'	23°22	29°57	0°15'	4° 8'	3°41	S 19
M20	11 52 8	29°52'25"	24° 9'	18°11'	22° 5'	21°18'	19°25'	6° 9'	12°54'	23° 3'	23°23	29°R57	0°12'	4°14'	3°42	M20
T 21	11 56 5	0°V 52'03"	7 ^h 38'	19°16'	23°19'	22° 5'	19°28'	6°13'	12°58'	23° 2'	23°24	29°57	0° 8'	4°21'	3°43	T 21
W22	12 0 1	1°51'39"	20°42'	20°15'	24°33'	22°52'	19°31'	6°18'	13° 1'	23° 1'	23°26	29°57	0° 5'	4°28'	3°44	W22
T 23	12 3 58	2°51'13"	3 ^h 22'	21° 7'	25°47'	23°39'	19°33'	6°23'	13° 4'	23° 0'	23°27	29°D57	0° 2'	4°34'	3°45	T 23
F 24	12 7 54	3°50'46"	15°43'	21°52'	27° 1'	24°26'	19°36'	6°28'	13° 8'	22°58	23°28	29°57	29°R59	4°41'	3°47	F 24
S 25	12 11 51	4°50'17"	27°49'	22°29'	28°15'	25°13'	19°38'	6°32'	13°11'	22°57	23°30	29°57	29°56	4°48'	3°48	S 25
S 26	12 15 47	5°49'46"	9 ^h 45'	22°58'	29°28'	26° 0'	19°40'	6°37'	13°14'	22°56	23°31	29°58	29°53	4°54'	3°49	S 26
M27	12 19 44	6°49'13"	21°34'	23°19'	0 ^h 42'	26°47'	19°42'	6°43'	13°17'	22°55	23°33	29°59	29°49	5° 1'	3°51	M27
T 28	12 23 41	7°48'38"	3 ^h 22'	23°33'	1°56'	27°34'	19°43'	6°48'	13°21'	22°54	23°34	29°59	29°46	5° 8'	3°53	T 28
W29	12 27 37	8°48'02"	15°10'	23°R39	3° 9'	28°21'	19°45'	6°53'	13°24'	22°53	23°35	0°R 0	29°43	5°14'	3°54	W29
T 30	12 31 34	9°47'23"	27° 2'	23°38'	4°23'	29° 8'	19°46'	6°58'	13°27'	22°52	23°37	0°R 0	29°40	5°21'	3°56	T 30
F 31	12 35 30	10°V 46'43"	9°V 1'	23°V 29'	5 ^h 37'	29°V 55'	19°V 47'	7°II 4'	13°V 30'	22°R51	23°V 38	0°R 0	29°R 37	5°V 28	3°R58	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	7s29	7s11	2n 6	7s 7	1s28	1s43	1s15	10s10	1s 3	22s10	0n43	19n27	1s42	7s48	0s44	14n 1
T 2	7 6	3 39	1 4	6 16	1 22	1 12	1 14	9 52	1 3	22 10	0 43	19 28	1 41	7 47	0 44	14 1
F 3	6 43	0n 2	0s 1	5 24	1 14	0 41	1 12	9 34	1 3	22 11	0 43	19 28	1 41	7 46	0 44	14 2
S 4	6 20	3 45	1 7	4 32	1 6	0 10	1 11	9 16	1 3	22 11	0 43	19 29	1 41	7 44	0 44	14 2
S 5	5 57	7 20	2 10	3 38	0 58	0n21	1 9	8 58	1 2	22 12	0 44	19 30	1 41	7 43	0 44	14 3
M 6	5 33	10 40	3 9	2 44	0 49	0 52	1 7	8 40	1 2	22 12	0 44	19 31	1 40	7 42	0 44	14 3
T 7	5 10	13 34	3 59	1 50	0 39	1 23	1 6	8 22	1 2	22 12	0 44	19 32	1 40	7 40	0 44	14 4
W 8	4 47	15 54	4 39	0 55	0 29	1 54	1 4	8 4	1 2	22 13	0 44	19 32	1 40	7 39	0 44	14 4
T 9	4 23	17 28	5 6	0 1	0 18	2 25	1 2	7 46	1 2	22 13	0 44	19 33	1 40	7 38	0 44	14 5
F 10	4 0	18 7	5 17	0n54	0 7	2 56	1 0	7 27	1 1	22 13	0 44	19 34	1 39	7 36	0 44	14 5
S 11	3 36	17 44	5 11	1 48	0n 5	3 27	0 58	7 9	1 1	22 14	0 44	19 35	1 39	7 35	0 44	14 6
S 12	3 13	16 14	4 45	2 42	0 17	3 57	0 56	6 50	1 1	22 14	0 44	19 36	1 39	7 34	0 44	14 6
M13	2 49	13 39	4 0	3 35	0 30	4 28	0 54	6 32	1 1	22 14	0 44	19 37	1 39	7 33	0 44	14 7
T 14	2 25	10 7	2 59	4 27	0 42	4 59	0 52	6 13	1 1	22 15	0 44	19 38	1 38	7 31	0 44	14 7
W15	2 2	5 52	1 44	5 17	0 55	5 29	0 50	5 55	1 0	22 15	0 44	19 39	1 38	7 30	0 44	14 8
T 16	1 38	1 14	0 22	6 6	1 8	6 0	0 48	5 36	1 0	22 15	0 44	19 40	1 38	7 29	0 44	14 8
F 17	1 14	3s26	1n 2	6 52	1 21	6 30	0 46	5 17	1 0	22 16	0 44	19 41	1 38	7 27	0 44	14 8
S 18	0 50	7 49	2 19	7 37	1 34	7 0	0 44	4 59	1 0	22 16	0 44	19 42	1 37	7 26	0 44	14 9
S 19	0 27	11 37	3 26	8 19	1 47	7 30	0 41	4 40	0 59	22 16	0 44	19 43	1 37	7 25	0 44	14 9
M20	0 3	14 37	4 18	8 58	1 59	8 0	0 39	4 21	0 59	22 16	0 44	19 44	1 37	7 24	0 44	14 10
T 21	0n21	16 44	4 54	9 34	2 11	8 29	0 37	4 2	0 59	22 16	0 44	19 45	1 37	7 22	0 44	14 10
W22	0 44	17 53	5 14	10 7	2 23	8 59	0 34	3 43	0 58	22 17	0 44	19 46	1 37	7 21	0 44	14 11
T 23	1 8	18 6	5 17	10 36	2 33	9 28	0 32	3 24	0 58	22 17	0 44	19 47	1 36	7 20	0 44	14 11
F 24	1 32	17 26	5 6	11 2	2 43	9 57	0 29	3 6	0 58	22 17	0 44	19 48	1 36	7 19	0 44	14 11
S 25	1 55	15 59	4 41	11 24	2 52	10 26	0 27	2 47	0 57	22 17	0 44	19 49	1 36	7 17	0 44	14 12
S 26	2 19	13 52	4 5	11 43	3 0	10 54	0 24	2 28	0 57	22 17	0 44	19 50	1 36	7 16	0 44	14 12
M27	2 42	11 11	3 18	11 57	3 7	11 23	0 21	2 9	0 57	22 17	0 44	19 51	1 35	7 15	0 44	14 12
T 28	3 6	8 3	2 23	12 7	3 13	11 51	0 19	1 50	0 57	22 17	0 44	19 52	1 35	7 14	0 44	14 13
W29	3 29	4 35	1 22	12 14	3 17	12 18	0 16	1 31	0 56	22 17	0 45	19 53	1 35	7 12	0 44	14 13
T 30	3 53	0 56	0 16	12 16	3 20	12 46	0 14	1 12	0 56	22 17	0 45	19 54	1 35	7 11	0 44	14 14
F 31	4n16	2n48	0s50	12n14	3n21	13n13	0s11	0s53	0s55	22s17	0n45	19n55	1s35	7s10	0s44	14n14

Julian Day Number = 2484476.5, Delta T = 88.82 sec
 Ecliptic obliquity = 23°25'30", Nutation = 0°00'01", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°00'00", Lahiri = 25°07'00"

ASTRODIENST EPHEMERIS for the year 2090

geocentric

APRIL 2090

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 39 27	11°46'00	21°48' 8	23°R13	6°50	0°42	19°48	7°11 9	13°33	22°R50	23°39	29°R59	29°33	5°34	4°5 0	S 1
S 2	12 43 23	12°45'16	3°25	22°45	8° 4	1°28	19°49	7°15	13°36	22°49	23°41	29°58	29°30	5°41	4° 2	S 2
M 3	12 47 20	13°44'29	15°54	22°23	9°17	2°15	19°49	7°20	13°39	22°48	23°42	29°56	29°27	5°47	4° 4	M 3
T 4	12 51 16	14°43'40	28°35	21°50	10°30	3° 2	19°49	7°26	13°43	22°47	23°44	29°54	29°24	5°54	4° 6	T 4
W 5	12 55 13	15°42'49	11°13	21°13	11°44	3°49	19°R50	7°32	13°46	22°46	23°45	29°52	29°21	6° 1	4° 9	W 5
T 6	12 59 10	16°41'56	24°42	20°31	12°57	4°35	19°49	7°38	13°49	22°45	23°46	29°50	29°18	6° 7	4°11	T 6
F 7	13 3 6	17°41'01	8°5 9	19°47	14°10	5°22	19°49	7°44	13°52	22°44	23°48	29°49	29°14	6°14	4°13	F 7
S 8	13 7 3	18°40'03	21°55	19° 1	15°23	6° 9	19°49	7°50	13°55	22°44	23°49	29°D49	29°11	6°21	4°16	S 8
S 9	13 10 59	19°39'03	5°58	18°14	16°36	6°55	19°48	7°56	13°58	22°43	23°51	29°50	29° 8	6°27	4°18	S 9
M10	13 14 56	20°38'00	20°18	17°26	17°50	7°42	19°47	8° 2	14° 1	22°42	23°52	29°51	29° 5	6°34	4°21	M10
T 11	13 18 52	21°36'55	4°52	16°40	19° 3	8°28	19°46	8° 8	14° 3	22°41	23°53	29°52	29° 2	6°41	4°24	T 11
W12	13 22 49	22°35'48	19°36	15°55	20°16	9°15	19°45	8°14	14° 6	22°41	23°55	29°53	28°58	6°47	4°27	W12
T 13	13 26 45	23°34'39	4°25	15°13	21°28	10° 1	19°44	8°20	14° 9	22°40	23°56	29°R54	28°55	6°54	4°30	T 13
F 14	13 30 42	24°33'27	19°12	14°34	22°41	10°47	19°42	8°27	14°12	22°39	23°58	29°53	28°52	7° 1	4°33	F 14
S 15	13 34 38	25°32'14	3°49	13°59	23°54	11°34	19°40	8°33	14°15	22°39	23°59	29°50	28°49	7° 7	4°36	S 15
S 16	13 38 35	26°30'59	18° 9	13°27	25° 7	12°20	19°39	8°39	14°18	22°38	24° 0	29°47	28°46	7°14	4°39	S 16
M17	13 42 32	27°29'41	2°8 8	13° 1	26°20	13° 6	19°36	8°46	14°20	22°38	24° 2	29°43	28°43	7°21	4°42	M17
T 18	13 46 28	28°28'23	15°42	12°39	27°32	13°52	19°34	8°52	14°23	22°37	24° 3	29°39	28°39	7°27	4°45	T 18
W19	13 50 25	29°27'02	28°51	12°22	28°45	14°39	19°32	8°59	14°26	22°37	24° 5	29°35	28°36	7°34	4°48	W19
T 20	13 54 21	0°25'40	11°36	12°10	29°57	15°25	19°29	9° 6	14°28	22°36	24° 6	29°32	28°33	7°41	4°52	T 20
F 21	13 58 18	1°24'16	24° 1	12° 3	1°10	16°11	19°26	9°12	14°31	22°36	24° 7	29°30	28°30	7°47	4°55	F 21
S 22	14 2 14	2°22'50	6°9 9	12°D 1	2°22	16°57	19°23	9°19	14°33	22°36	24° 9	29°D30	28°27	7°54	4°59	S 22
S 23	14 6 11	3°21'23	18° 5	12° 5	3°35	17°43	19°20	9°26	14°36	22°35	24°10	29°31	28°24	8° 1	5° 2	S 23
M24	14 10 7	4°19'54	29°54	12°13	4°47	18°29	19°17	9°33	14°39	22°35	24°12	29°33	28°20	8° 7	5° 6	M24
T 25	14 14 4	5°18'23	11°42	12°27	5°59	19°15	19°13	9°40	14°41	22°35	24°13	29°35	28°17	8°14	5°10	T 25
W26	14 18 1	6°16'51	23°32	12°45	7°12	20° 1	19° 9	9°47	14°43	22°34	24°14	29°R36	28°14	8°21	5°13	W26
T 27	14 21 57	7°15'17	5°29	13° 7	8°24	20°47	19° 6	9°54	14°46	22°34	24°16	29°36	28°11	8°27	5°17	T 27
F 28	14 25 54	8°13'41	17°37	13°34	9°36	21°33	19° 1	10° 1	14°48	22°34	24°17	29°34	28° 8	8°34	5°21	F 28
S 29	14 29 50	9°12'04	29°56	14° 5	10°48	22°18	18°57	10° 8	14°51	22°34	24°19	29°31	28° 4	8°40	5°25	S 29
S 30	14 33 47	10°10'25	12°30	14°41	12°II 0	23°4 4	18°53	10°II 15	14°53	22°34	24°20	29°25	28°11	8°47	5°29	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	4n39	6n28	1s55	12n 7	3n21	13n40	0s 8	0s34	0s55	22s17	0n45	19n56	1s34	7s 9	0s44	14n14	0n22	6s27	16s47	0n 0	0n11	7s31	16n59	6s24						
S 2	5 2	9 54	2 55	11 57	3 19	14 6	0 5	0 15	0 55	22 18	0 45	19 57	1 34	7 8	0 44	14 15	0 22	6 26	16 47	0 1	0 12	7 29	16 59	6 23						
M 3	5 25	12 57	3 48	11 44	3 15	14 32	0 3	0n 4	0 54	22 18	0 45	19 59	1 34	7 6	0 44	14 15	0 22	6 26	16 47	0 1	0 13	7 27	16 59	6 23						
T 4	5 48	15 26	4 30	11 26	3 10	14 58	0n 0	0 23	0 54	22 17	0 45	20 0	1 34	7 5	0 44	14 15	0 22	6 25	16 47	0 2	0 14	7 26	17 0	6 22						
W 5	6 11	17 11	5 0	11 5	3 3	15 24	0 3	0 42	0 54	22 17	0 45	20 1	1 34	7 4	0 45	14 15	0 22	6 25	16 47	0 3	0 16	7 24	17 0	6 22						
T 6	6 34	18 4	5 15	10 42	2 54	15 49	0 6	1 0	0 53	22 17	0 45	20 2	1 33	7 3	0 45	14 16	0 22	6 24	16 47	0 4	0 17	7 22	17 1	6 21						
F 7	6 56	17 58	5 13	10 16	2 44	16 13	0 9	1 19	0 53	22 17	0 45	20 3	1 33	7 2	0 45	14 16	0 22	6 24	16 47	0 4	0 18	7 21	17 1	6 21						
S 8	7 19	16 49	4 53	9 48	2 33	16 37	0 12	1 38	0 52	22 17	0 45	20 4	1 33	7 1	0 45	14 16	0 22	6 23	16 47	0 4	0 19	7 19	17 1	6 20						
S 9	7 41	14 38	4 16	9 18	2 20	17 1	0 14	1 57	0 52	22 17	0 45	20 5	1 33	7 0	0 45	14 17	0 22	6 22	16 47	0 4	0 21	7 17	17 2	6 20						
M10	8 3	11 31	3 22	8 47	2 6	17 25	0 17	2 16	0 52	22 17	0 45	20 7	1 33	6 58	0 45	14 17	0 22	6 22	16 47	0 4	0 22	7 16	17 2	6 19						
T 11	8 25	7 39	2 14	8 15	1 51	17 48	0 20	2 34	0 51	22 17	0 45	20 8	1 32	6 57	0 45	14 17	0 22	6 21	16 47	0 3	0 23	7 14	17 2	6 19						
W12	8 47	3 15	0 56	7 44	1 36	18 10	0 23	2 53	0 51	22 17	0 45	20 9	1 32	6 56	0 45	14 17	0 22	6 21	16 47	0 3	0 24	7 12	17 3	6 18						
T 13	9 9	1s22	0n25	7 13	1 19	18 32	0 26	3 12	0 50	22 17	0 45	20 10	1 32	6 55	0 45	14 17	0 22	6 20	16 47	0 3	0 26	7 11	17 3	6 18						
F 14	9 31	5 54	1 44	6 42	1 3	18 54	0 29	3 30	0 50	22 17	0 45	20 11	1 32	6 54	0 45	14 18	0 22	6 20	16 47	0 3	0 27	7 9	17 3	6 18						
S 15	9 52	10 1	2 56	6 13	0 46	19 15	0 32	3 49	0 50	22 17	0 45	20 12	1 32	6 53	0 45	14 18	0 22	6 19	16 47	0 4	0 28	7 7	17 4	6 17						
S 16	10 13	13 28	3 55	5 46	0 30	19 36	0 35	4 7	0 49	22 16	0 45	20 14	1 32	6 52	0 45	14 18	0 22	6 19	16 47	0 5	0 30	7 5	17 4	6 17						
M17	10 35	16 2	4 38	5 20	0 13	19 56	0 37	4 25	0 49	22 16	0 45	20 15	1 31	6 51	0 45	14 18	0 22	6 18	16 47	0 7	0 31	7 4	17 4	6 16						
T 18	10 56	17 37	5 4	4 57	0s 3	20 15	0 40	4 44	0 48	22 16	0 45	20 16	1 31	6 50	0 45	14 18	0 22	6 18	16 47	0 8	0 32	7 2	17 5	6 16						
W19	11 16	18 12	5 14	4 36	0 19	20 34	0 43	5 2	0 48	22 16	0 45	20 17	1 31	6 49	0 45	14 18	0 22	6 17	16 47	0 10	0 33	7 0	17 5	6 15						
T 20	11 37	17 49	5 7	4 17	0 34	20 53	0 46	5 20	0 47	22 16	0 45	20 18	1 31	6 48	0 45	14 19	0 22	6 17	16 47	0 11	0 35	6 59	17 5	6 15						
F 21	11 57	16 36	4 46	4 1	0 49	21 11	0 49	5 38	0 47	22 15	0 45	20 19	1 31	6 47	0 45	14 19	0 22	6 17	16 47	0 12	0 36	6 57	17 6	6 15						
S 22	12 18	14 39	4 12	3 47	1 3	21 28	0 52	5 57	0 46	22 15	0 45	20 21	1 31	6 46	0 45	14 19	0 22	6 16	16 47	0 12	0 37	6 55	17 6	6 14						
S 23	12 38	12 6	3 28	3 36	1 16	21 45	0 55	6 15	0 46	22 15	0 45	20 22	1 30	6 45	0 45	14 19	0 22	6 16	16 47	0 11	0 38	6 54	17 6	6 14						
M24	12 57	9 4	2 35	3 28	1 29	22 1	0 57	6 33	0 45	22 15	0 45	20 23	1 30	6 44	0 45	14 19	0 22	6 15	16 47	0 11	0 40	6 52	17 6	6 13						
T 25	13 17	5 41	1 36	3 22	1 41	22 17	1 0	6 50	0 45	22 14	0 45	20 24	1 30	6 43	0 45	14 19	0 22	6 15	16 47	0 10	0 41	6 50	17 7	6 13						
W26	13 36	2 4	0 33	3 19	1 52	22 32	1 3	7 8	0 44	22 14	0 45	20 25	1 30	6 42	0 45	14 19	0 22	6 14	16 47	0 10	0 42	6 49	17 7	6 13						
T 27	13 56	1n41	0s32	3 18	2 2	22 46	1 5	7 26	0 44	22 14	0 45	20 26	1 30	6 41	0 45	14 19	0 22	6 14	16 47	0 10	0 43	6 47	17 7	6 12						
F 28	14 14	5 25	1 37	3 20	2 12	23 0	1 8	7 43	0 43	22 13	0 45	20 28	1 30	6 40	0 45	14 19	0 22	6 14	16 47	0 10	0 45	6 45	17 7	6 12						
S 29	14 33	8 59	2 38	3 24	2 20	23 13	1 11	8 1	0 43	22 13	0 45	20 29	1 30	6 40	0 45	14 19	0 22	6 13	16 47	0 12	0 46	6 43	17 8	6 12						
S 30	14n52	12n13	3s32	3n30	2s28	23n26	1n13	8n18	0s42	22s13	0n45	20n30	1s29	6s39	0s45	14n19	0n22	6s13	16s47	0n14	0n47	6s42	17n 8	6s11						

ASTRODIENST EPHEMERIS for the year 2090

geocentric

MAY 2090

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	14 37 43	11° 8' 44"	25° 18'	15° 20'	13° 12'	23° 50'	18° 48'	10° 22'	14° 55'	22° 34'	24° 21'	29° 19'	27° 58'	8° 54'	5° 33'	M 1
T 2	14 41 40	12° 7' 01"	8° 12'	16° 3'	14° 24'	24° 35'	18° 44'	10° 29'	14° 57'	22° 34'	24° 23'	29° 11'	27° 55'	9° 0'	5° 37'	T 2
W 3	14 45 36	13° 5' 17"	21° 37'	16° 49'	15° 35'	25° 21'	18° 39'	10° 36'	15° 0'	22° 34'	24° 24'	29° 4'	27° 52'	9° 7'	5° 42'	W 3
T 4	14 49 33	14° 3' 30"	5° 6'	17° 39'	16° 47'	26° 7'	18° 34'	10° 44'	15° 2'	22° 34'	24° 25'	28° 58'	27° 49'	9° 14'	5° 46'	T 4
F 5	14 53 30	15° 1' 42"	18° 46'	18° 32'	17° 59'	26° 52'	18° 29'	10° 51'	15° 4'	22° 34'	24° 27'	28° 53'	27° 45'	9° 20'	5° 50'	F 5
S 6	14 57 26	15° 59' 52"	2° 36'	19° 29'	19° 10'	27° 38'	18° 23'	10° 58'	15° 6'	22° 34'	24° 28'	28° 50'	27° 42'	9° 27'	5° 55'	S 6
S 7	15 1 23	16° 57' 59"	16° 36'	20° 28'	20° 22'	28° 23'	18° 18'	11° 5'	15° 8'	22° 34'	24° 29'	28° 50'	27° 39'	9° 34'	5° 59'	S 7
M 8	15 5 19	17° 56' 05"	0° 14'	21° 30'	21° 33'	29° 8'	18° 13'	11° 13'	15° 10'	22° 34'	24° 31'	28° 50'	27° 36'	9° 40'	6° 3'	M 8
T 9	15 9 16	18° 54' 08"	15° 0'	22° 35'	22° 45'	29° 54'	18° 7'	11° 20'	15° 12'	22° 34'	24° 32'	28° 51'	27° 33'	9° 47'	6° 8'	T 9
W10	15 13 12	19° 52' 10"	29° 21'	23° 43'	23° 56'	0° 39'	18° 1'	11° 28'	15° 14'	22° 34'	24° 33'	28° 52'	27° 30'	9° 54'	6° 13'	W10
T 11	15 17 9	20° 50' 10"	13° 44'	24° 54'	25° 7'	1° 24'	17° 55'	11° 35'	15° 16'	22° 35'	24° 35'	28° 51'	27° 26'	10° 0'	6° 17'	T 11
F 12	15 21 5	21° 48' 08"	28° 6'	26° 7'	26° 19'	2° 9'	17° 49'	11° 43'	15° 18'	22° 35'	24° 36'	28° 48'	27° 23'	10° 7'	6° 22'	F 12
S 13	15 25 2	22° 46' 04"	12° 21'	27° 22'	27° 30'	2° 54'	17° 43'	11° 50'	15° 19'	22° 35'	24° 37'	28° 42'	27° 20'	10° 14'	6° 27'	S 13
S 14	15 28 59	23° 43' 59"	26° 25'	28° 40'	28° 41'	3° 39'	17° 37'	11° 58'	15° 21'	22° 36'	24° 38'	28° 35'	27° 17'	10° 20'	6° 31'	S 14
M15	15 32 55	24° 41' 52"	10° 13'	0° 1'	29° 52'	4° 24'	17° 30'	12° 5'	15° 23'	22° 36'	24° 40'	28° 26'	27° 14'	10° 27'	6° 36'	M15
T 16	15 36 52	25° 39' 44"	23° 41'	1° 23'	1° 52'	5° 9'	17° 24'	12° 13'	15° 24'	22° 36'	24° 41'	28° 16'	27° 10'	10° 34'	6° 41'	T 16
W17	15 40 48	26° 37' 35"	6° 34'	2° 49'	2° 13'	5° 54'	17° 17'	12° 20'	15° 26'	22° 37'	24° 42'	28° 7'	27° 7'	10° 40'	6° 46'	W17
T 18	15 44 45	27° 35' 24"	19° 32'	4° 16'	3° 24'	6° 39'	17° 10'	12° 28'	15° 28'	22° 37'	24° 43'	28° 0'	27° 4'	10° 47'	6° 51'	T 18
F 19	15 48 41	28° 33' 12"	1° 58'	5° 46'	4° 35'	7° 24'	17° 3'	12° 36'	15° 29'	22° 38'	24° 45'	27° 54'	27° 1'	10° 54'	6° 56'	F 19
S 20	15 52 38	29° 30' 59"	14° 7'	7° 18'	5° 45'	8° 9'	16° 57'	12° 43'	15° 31'	22° 38'	24° 46'	27° 51'	26° 58'	11° 0'	7° 1'	S 20
S 21	15 56 34	0° 28' 45"	26° 4'	8° 52'	6° 55'	8° 53'	16° 50'	12° 51'	15° 32'	22° 39'	24° 47'	27° 49'	26° 55'	11° 7'	7° 6'	S 21
M22	16 0 31	1° 26' 29"	7° 54'	10° 28'	8° 6'	9° 38'	16° 43'	12° 59'	15° 34'	22° 40'	24° 48'	27° 50'	26° 51'	11° 13'	7° 11'	M22
T 23	16 4 28	2° 24' 13"	19° 42'	12° 7'	9° 16'	10° 23'	16° 35'	13° 6'	15° 35'	22° 40'	24° 49'	27° 50'	26° 48'	11° 20'	7° 16'	T 23
W24	16 8 24	3° 21' 55"	1° 35'	13° 48'	10° 26'	11° 7'	16° 28'	13° 14'	15° 36'	22° 41'	24° 51'	27° 50'	26° 45'	11° 27'	7° 22'	W24
T 25	16 12 21	4° 19' 36"	13° 36'	15° 31'	11° 36'	11° 52'	16° 21'	13° 22'	15° 37'	22° 42'	24° 52'	27° 49'	26° 42'	11° 33'	7° 27'	T 25
F 26	16 16 17	5° 17' 17"	25° 50'	17° 16'	12° 46'	12° 36'	16° 14'	13° 30'	15° 39'	22° 42'	24° 53'	27° 46'	26° 39'	11° 40'	7° 32'	F 26
S 27	16 20 14	6° 14' 56"	8° 21'	19° 4'	13° 56'	13° 21'	16° 6'	13° 37'	15° 40'	22° 43'	24° 54'	27° 40'	26° 35'	11° 47'	7° 38'	S 27
S 28	16 24 10	7° 12' 34"	21° 10'	20° 54'	15° 6'	14° 5'	15° 59'	13° 45'	15° 41'	22° 44'	24° 55'	27° 31'	26° 32'	11° 53'	7° 43'	S 28
M29	16 28 7	8° 10' 11"	4° 11'	22° 45'	16° 16'	14° 49'	15° 51'	13° 53'	15° 42'	22° 45'	24° 56'	27° 21'	26° 29'	12° 0'	7° 48'	M29
T 30	16 32 3	9° 7' 48"	17° 44'	24° 40'	17° 26'	15° 33'	15° 44'	14° 1'	15° 43'	22° 46'	24° 57'	27° 10'	26° 26'	12° 7'	7° 54'	T 30
W31	16 36 0	10° 11' 52"	1° 25'	26° 36'	18° 35'	16° 18'	15° 36'	14° 11'	15° 44'	22° 46'	24° 58'	26° 19'	26° 23'	12° 13'	7° 59'	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	15n10	14n55	4s17	3n38	2s36	23n38	1n16	8n36	0s42	22s12	0n45	20n31	1s29	6s38	0s45	14n19
T 2	15 28	16 56	4 49	3 49	2 42	23 49	1 19	8 53	0 41	22 12	0 45	20 32	1 29	6 37	0 45	14 19
W 3	15 45	18 4	5 6	4 1	2 48	23 59	1 21	9 10	0 41	22 11	0 45	20 33	1 29	6 36	0 45	14 19
T 4	16 3	18 13	5 7	4 16	2 53	24 9	1 24	9 27	0 40	22 11	0 45	20 35	1 29	6 35	0 45	14 19
F 5	16 20	17 19	4 51	4 32	2 57	24 19	1 26	9 44	0 40	22 11	0 45	20 36	1 29	6 35	0 45	14 19
S 6	16 37	15 23	4 17	4 50	3 0	24 27	1 28	10 1	0 39	22 10	0 45	20 37	1 29	6 34	0 45	14 19
S 7	16 54	12 32	3 28	5 10	3 3	24 35	1 31	10 18	0 39	22 10	0 45	20 38	1 28	6 33	0 45	14 19
M 8	17 10	8 56	2 26	5 31	3 5	24 42	1 33	10 34	0 38	22 9	0 45	20 39	1 28	6 32	0 45	14 19
T 9	17 26	4 46	1 14	5 54	3 6	24 49	1 35	10 51	0 37	22 9	0 45	20 40	1 28	6 32	0 45	14 19
W10	17 42	0 18	0n3	6 18	3 7	24 55	1 38	11 7	0 37	22 8	0 45	20 41	1 28	6 31	0 45	14 19
T 11	17 57	4s12	1 19	6 44	3 7	25 0	1 40	11 23	0 36	22 8	0 45	20 42	1 28	6 30	0 45	14 19
F 12	18 12	8 27	2 31	7 11	3 6	25 4	1 42	11 39	0 36	22 7	0 45	20 44	1 28	6 30	0 46	14 19
S 13	18 27	12 10	3 32	7 39	3 5	25 8	1 44	11 55	0 35	22 7	0 45	20 45	1 28	6 29	0 46	14 19
S 14	18 42	15 8	4 19	8 9	3 3	25 11	1 46	12 11	0 35	22 6	0 45	20 46	1 28	6 28	0 46	14 19
M15	18 56	17 11	4 50	8 39	3 1	25 13	1 48	12 27	0 34	22 6	0 45	20 47	1 27	6 28	0 46	14 19
T 16	19 10	18 12	5 4	9 10	2 57	25 15	1 50	12 42	0 33	22 5	0 45	20 48	1 27	6 27	0 46	14 19
W17	19 23	18 13	5 2	9 43	2 54	25 16	1 51	12 58	0 33	22 5	0 45	20 49	1 27	6 26	0 46	14 18
T 18	19 37	17 19	4 44	10 16	2 50	25 16	1 53	13 13	0 32	22 4	0 45	20 50	1 27	6 26	0 46	14 18
F 19	19 50	15 35	4 14	10 51	2 45	25 15	1 55	13 28	0 32	22 4	0 44	20 51	1 27	6 25	0 46	14 18
S 20	20 2	13 12	3 32	11 25	2 39	25 14	1 56	13 43	0 31	22 3	0 44	20 52	1 27	6 25	0 46	14 18
S 21	20 14	10 17	2 42	12 1	2 34	25 12	1 58	13 58	0 30	22 2	0 44	20 53	1 27	6 24	0 46	14 18
M22	20 26	6 59	1 45	12 37	2 27	25 10	1 59	14 13	0 30	22 2	0 44	20 54	1 27	6 24	0 46	14 18
T 23	20 38	3 25	0 43	13 14	2 20	25 6	2 1	14 28	0 29	22 1	0 44	20 56	1 27	6 23	0 46	14 17
W24	20 49	0n19	0s20	13 51	2 13	25 2	2 2	14 42	0 29	22 0	0 44	20 57	1 27	6 23	0 46	14 17
T 25	21 0	4 5	1 23	14 29	2 5	24 58	2 3	14 56	0 28	22 0	0 44	20 58	1 26	6 22	0 46	14 17
F 26	21 10	7 45	2 23	15 7	1 57	24 52	2 4	15 11	0 27	21 59	0 44	20 59	1 26	6 22	0 46	14 17
S 27	21 20	11 9	3 18	15 44	1 48	24 46	2 5	15 24	0 27	21 58	0 44	21 0	1 26	6 21	0 46	14 16
S 28	21 30	14 7	4 4	16 22	1 39	24 40	2 6	15 38	0 26	21 58	0 44	21 1	1 26	6 21	0 46	14 16
M29	21 39	16 26	4 38	17 0	1 30	24 32	2 7	15 52	0 26	21 57	0 44	21 2	1 26	6 21	0 46	14 16
T 30	21 48	17 55	4 58	17 38	1 20	24 24	2 8	16 5	0 25	21 56	0 44	21 3	1 26	6 20	0 46	14 16
W31	21n57	18n24	5s 1	18n15	1s10	24n16	2n 9	16n19	0s24	21s56	0n43	21n 4	1s26	6s20	0s46	14n15

Julian Day Number = 2484537.5, Delta T = 88.89 sec
 Ecliptic obliquity = 23°25'30", Nutation = - 0°00'02", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°00'08", Lahiri = 25°07'09"

ASTRODIENST EPHEMERIS for the year 2090

geocentric

JUNE 2090

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 39 57	11 ^{II} 2'56	15 [☾] 18	28 [♂] 34	19 [☾] 45	17 [♂] 2	15 [♂] R29	14 ^{II} 16	15 [♂] 45	22 [♂] 47	24 [♂] 59	26 [♂] R48	26 [♂] 20	12 [♂] 20	8 [☾] 5	T 1
F 2	16 43 53	12° 0'29	29°20	0 ^{II} 34	20°54	17°46	15 [♂] 21	14°24	15°46	22°48	25° 0	26 [♂] 41	26°16	12°27	8°10	F 2
S 3	16 47 50	12°58'00	13 [♂] 26	2°37	22° 3	18°30	15°13	14°32	15°47	22°49	25° 1	26°35	26°13	12°33	8°16	S 3
S 4	16 51 46	13°55'30	27°34	4°41	23°12	19°14	15° 6	14°40	15°48	22°50	25° 2	26°33	26°10	12°40	8°21	S 4
M 5	16 55 43	14°52'58	11 [♂] 43	6°46	24°21	19°58	14°58	14°48	15°48	22°51	25° 3	26°D32	26° 7	12°47	8°27	M 5
T 6	16 59 39	15°50'25	25°50	8°54	25°30	20°41	14°50	14°55	15°49	22°52	25° 4	26°R32	26° 4	12°53	8°33	T 6
W 7	17 3 36	16°47'51	9 [♂] 55	11° 2	26°39	21°25	14°43	15° 3	15°50	22°54	25° 5	26°32	26° 1	13° 0	8°38	W 7
T 8	17 7 32	17°45'16	23°56	13°12	27°48	22° 9	14°35	15°11	15°50	22°55	25° 6	26°29	25°57	13° 7	8°44	T 8
F 9	17 11 29	18°42'40	7 [♂] 53	15°23	28°56	22°53	14°27	15°19	15°51	22°56	25° 7	26°25	25°54	13°13	8°50	F 9
S 10	17 15 26	19°40'02	21°43	17°35	0 [♂] 5	23°36	14°20	15°27	15°51	22°57	25° 8	26°18	25°51	13°20	8°55	S 10
S 11	17 19 22	20°37'24	5 [♂] 23	19°47	1°13	24°20	14°12	15°34	15°52	22°58	25° 9	26° 8	25°48	13°26	9° 1	S 11
M12	17 23 19	21°34'45	18°50	21°59	2°21	25° 3	14° 5	15°42	15°52	22°59	25°10	25°56	25°45	13°33	9° 7	M12
T 13	17 27 15	22°32'05	2 [♂] 2	24°11	3°29	25°47	13°57	15°50	15°52	23° 1	25°11	25°43	25°41	13°40	9°13	T 13
W14	17 31 12	23°29'25	14°57	26°22	4°37	26°30	13°50	15°58	15°53	23° 2	25°11	25°31	25°38	13°46	9°19	W14
T 15	17 35 8	24°26'43	27°34	28°33	5°45	27°13	13°42	16° 5	15°53	23° 3	25°12	25°21	25°35	13°53	9°25	T 15
F 16	17 39 5	25°24'02	9 [♂] 55	0 [♂] 43	6°52	27°56	13°35	16°13	15°53	23° 5	25°13	25°13	25°32	14° 0	9°30	F 16
S 17	17 43 1	26°21'19	22° 2	2°52	8° 0	28°40	13°28	16°21	15°53	23° 6	25°14	25° 7	25°29	14° 6	9°36	S 17
S 18	17 46 58	27°18'37	3 [♂] 58	5° 0	9° 7	29°23	13°20	16°29	15°54	23° 7	25°15	25° 4	25°26	14°13	9°42	S 18
M19	17 50 55	28°15'54	15°47	7° 6	10°14	0 ^{II} 6	13°13	16°36	15°54	23° 9	25°15	25° 3	25°22	14°20	9°48	M19
T 20	17 54 51	29°13'11	27°36	9°10	11°21	0°49	13° 6	16°44	15°R54	23°10	25°16	25° 3	25°19	14°26	9°54	T 20
W21	17 58 48	0 [♂] 10'27	9 [♂] 29	11°13	12°28	1°32	12°59	16°52	15°54	23°12	25°17	25° 3	25°16	14°33	10° 0	W21
T 22	18 2 44	1° 7'43	21°32	13°14	13°35	2°15	12°52	16°59	15°54	23°13	25°18	25° 1	25°13	14°40	10° 6	T 22
F 23	18 6 41	2° 4'59	3 [♂] 49	15°12	14°42	2°58	12°45	17° 7	15°53	23°15	25°18	24°58	25°10	14°46	10°12	F 23
S 24	18 10 37	3° 2'15	16°26	17° 9	15°48	3°40	12°38	17°15	15°53	23°16	25°19	24°52	25° 7	14°53	10°18	S 24
S 25	18 14 34	3°59'31	29°25	19° 4	16°54	4°23	12°32	17°22	15°53	23°18	25°20	24°44	25° 3	15° 0	10°24	S 25
M26	18 18 30	4°56'47	12 ^{II} 47	20°56	18° 0	5° 6	12°25	17°30	15°53	23°19	25°20	24°34	25° 0	15° 6	10°30	M26
T 27	18 22 27	5°54'02	26°32	22°47	19° 6	5°48	12°19	17°37	15°52	23°21	25°21	24°23	24°57	15°13	10°36	T 27
W28	18 26 24	6°51'18	10 [♂] 36	24°35	20°12	6°31	12°12	17°45	15°52	23°23	25°21	24°11	24°54	15°19	10°42	W28
T 29	18 30 20	7°48'33	24°54	26°21	21°17	7°14	12° 6	17°53	15°52	23°24	25°22	24° 1	24°51	15°26	10°48	T 29
F 30	18 34 17	8 [♂] 45'47	9 [♂] 21	28 [♂] 5	22 [♂] 23	7 ^{II} 56	12 [♂] 0	18 ^{II} 0	15 [♂] 51	23 [♂] 26	25 [♂] 22	23 [♂] 53	24 [♂] 47	15 [♂] 33	10 [♂] 54	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	22n 5	17n48	4s47	18n52	1s 0	24n 6	2n 9	16n32	0s24	21s55	0n43	21n 5	1s26	6s20	0s46	14n15	0n21	6s 4	16s53	1n16	1n28	5s47	17n 9	6s 3	17s 1	6s 3	17s 1
F 2	22 13	16 7	4 15	19 27	0 49	23 56	2 10	16 45	0 23	21 54	0 43	21 6	1 26	6 19	0 46	14 15	0 21	6 4	16 53	1 19	1 29	5 45	17 9	6 2	17 9	6 2	
S 3	22 20	13 28	3 27	20 3	0 38	23 46	2 10	16 58	0 22	21 53	0 43	21 7	1 26	6 19	0 46	14 14	0 21	6 4	16 53	1 21	1 30	5 43	17 8	6 2	17 8	6 2	
S 4	22 27	10 0	2 27	20 36	0 28	23 35	2 11	17 10	0 22	21 53	0 43	21 8	1 26	6 19	0 46	14 14	0 21	6 4	16 53	1 22	1 31	5 41	17 8	6 2	17 8	6 2	
M 5	22 34	5 58	1 18	21 9	0 17	23 23	2 11	17 23	0 21	21 52	0 43	21 8	1 26	6 18	0 46	14 14	0 21	6 4	16 54	1 23	1 33	5 40	17 8	6 2	17 8	6 2	
T 6	22 40	1 36	0 4	21 40	0 6	23 10	2 11	17 35	0 20	21 51	0 43	21 9	1 26	6 18	0 46	14 13	0 21	6 4	16 54	1 23	1 34	5 38	17 8	6 2	17 8	6 2	
W 7	22 46	2s51	1n10	22 10	0n 5	22 57	2 11	17 47	0 20	21 51	0 43	21 10	1 25	6 18	0 46	14 13	0 21	6 3	16 54	1 23	1 35	5 36	17 8	6 2	17 8	6 2	
T 8	22 52	7 7	2 20	22 37	0 15	22 44	2 11	17 59	0 19	21 50	0 43	21 11	1 25	6 18	0 47	14 13	0 21	6 3	16 54	1 24	1 36	5 34	17 7	6 2	17 7	6 2	
F 9	22 57	10 58	3 20	23 3	0 26	22 30	2 11	18 11	0 18	21 49	0 42	21 12	1 25	6 18	0 47	14 12	0 21	6 3	16 55	1 25	1 38	5 33	17 7	6 1	17 7	6 1	
S 10	23 1	14 11	4 8	23 26	0 36	22 15	2 11	18 23	0 18	21 48	0 42	21 13	1 25	6 17	0 47	14 12	0 21	6 3	16 55	1 28	1 39	5 31	17 7	6 1	17 7	6 1	
S 11	23 6	16 34	4 41	23 47	0 45	22 0	2 10	18 34	0 17	21 48	0 42	21 14	1 25	6 17	0 47	14 11	0 21	6 3	16 55	1 32	1 40	5 29	17 7	6 1	17 7	6 1	
M12	23 9	18 0	4 58	24 6	0 55	21 44	2 10	18 45	0 16	21 47	0 42	21 15	1 25	6 17	0 47	14 11	0 21	6 3	16 56	1 37	1 41	5 27	17 6	6 1	17 6	6 1	
T 13	23 13	18 26	4 59	24 21	1 3	21 27	2 9	18 56	0 16	21 46	0 42	21 16	1 25	6 17	0 47	14 11	0 21	6 3	16 56	1 42	1 43	5 26	17 6	6 1	17 6	6 1	
W14	23 16	17 53	4 44	24 34	1 12	21 11	2 8	19 7	0 15	21 45	0 42	21 17	1 25	6 17	0 47	14 10	0 21	6 3	16 56	1 47	1 44	5 24	17 6	6 1	17 6	6 1	
T 15	23 19	16 28	4 15	24 44	1 19	20 53	2 8	19 18	0 14	21 45	0 42	21 17	1 25	6 17	0 47	14 10	0 21	6 3	16 56	1 51	1 45	5 22	17 5	6 1	17 5	6 1	
F 16	23 21	14 18	3 35	24 52	1 26	20 35	2 7	19 28	0 14	21 44	0 41	21 18	1 25	6 17	0 47	14 9	0 21	6 3	16 57	1 54	1 46	5 20	17 5	6 1	17 5	6 1	
S 17	23 22	11 33	2 45	24 56	1 33	20 17	2 6	19 38	0 13	21 43	0 41	21 19	1 25	6 17	0 47	14 9	0 21	6 3	16 57	1 56	1 48	5 19	17 5	6 1	17 5	6 1	
S 18	23 24	8 21	1 49	24 58	1 38	19 58	2 5	19 48	0 12	21 42	0 41	21 20	1 25	6 17	0 47	14 8	0 21	6 3	16 57	1 58	1 49	5 17	17 4	6 1	17 4	6 1	
M19	23 25	4 51	0 49	24 57	1 43	19 39	2 3	19 58	0 12	21 42	0 41	21 21	1 25	6 17	0 47	14 8	0 21	6 3	16 58	1 58	1 50	5 15	17 4	6 1	17 4	6 1	
T 20	23 25	1 10	0s14	24 53	1 47	19 19	2 2	20 8	0 11	21 41	0 41	21 21	1 25	6 17	0 47	14 7	0 21	6 3	16 58	1 58	1 52	5 13	17 4	6 1	17 4	6 1	
W21	23 25	2n36	1 16	24 47	1 51	18 59	2 1	20 17	0 10	21 40	0 41	21 22	1 25	6 17	0 47	14 7	0 21	6 3	16 58	1 58	1 53	5 12	17 3	6 1	17 3	6 1	
T 22	23 25	6 17	2 16	24 39	1 53	18 38	1 59	20 26	0 10	21 39	0 41	21 23	1 25	6 17	0 47	14 6	0 21	6 3	16 59	1 59	1 54	5 10	17 3	6 1	17 3	6 1	
F 23	23 24	9 48	3 10	24 28	1 55	18 17	1 57	20 35	0 9	21 39	0 40	21 24	1 25	6 17	0 47	14 6	0 21	6 3	16 59	2 0	1 55	5 8	17 2	6 1	17 2	6 1	
S 24	23 23	12 57	3 57	24 15	1 56	17 56	1 55	20 44	0 8	21 38	0 40	21 25	1 25	6 17	0 47	14 5	0 21	6 3	16 59	2 2	1 57	5 6	17 2	6 1	17 2	6 1	
S 25	23 22	15 34	4 33	24 0	1 57	17 34	1 53	20 53	0 8	21 37	0 40	21 25	1 25	6 17	0 47	14 5	0 21	6 3	17 0	2 5	1 58	5 5	17 2	6 1	17 2	6 1	
M26	23 20	17 26	4 55	23 43	1 56	17 12	1 51	21 1	0 7	21 37	0 40	21 26	1 25	6 17	0 47	14 4	0 21	6 4	17 0	2 9	1 59	5 3	17 1	6 1	17 1	6 1	
T 27	23 18	18 22	5 1	23 24	1 55	16 49	1 49	21 10	0 6	21 36	0 40	21 27	1 25	6 18	0 47	14 4	0 21	6 4	17 0	2 14	2 0	5 1	17 1	6 1	17 1	6 1	
W28	23 15	18 12	4 49	23 4	1 54	16 26	1 47	21 18	0 5	21 35	0 39	21 27	1 25	6 18	0 47	14 3	0 21	6 4	17 1	2 18	2 2	4 59	17 0	6 1	17 0	6 1	
T 29	23 12	16 53	4 19	22 42	1 51	16 3	1 45	21 25	0 5	21 35	0 39	21 28	1 25	6 18	0 47	14 3	0 21	6 4	17 1	2 23	2 3	4 58	17 0	6 1	17 0	6 1	
F 30	23n 8	14n29	3s32	22n18	1n48	15n39	1n42	21n33	0s 4	21s34	0n39	21n29	1s24	6s18	0s47	14n 2	0n21	6s 4	17s 1	2n26	2n 4	4s56	16n59	6s 3	17s 1	6s 3	

ASTRODIENST EPHEMERIS for the year 2090

geocentric

JULY 2090

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 38 13	9 ⁵ 43'01	23 ² 50	29 ⁵ 46	23 ² 28	8 ¹¹ 38	11°R54	18 ¹¹ 7	15°R51	23 ² 28	25 ² 23	23°R48	24 ² 44	15 ² 39	11 ² 50	S 1
S 2	18 42 10	10°40'15	8 ¹¹ 16	1 ² 26	24°33	9°21	11 ² 48	18°15	15 ² 50	23°29	25°23	23 ² 45	24°41	15°46	11° 6	S 2
M 3	18 46 6	11°37'28	22°36	3° 3	25°38	10° 3	11°42	18°22	15°49	23°31	25°24	23°D44	24°38	15°53	11°12	M 3
T 4	18 50 3	12°34'41	6 ² 46	4°38	26°42	10°45	11°36	18°30	15°49	23°33	25°24	23°R44	24°35	15°59	11°18	T 4
W 5	18 53 59	13°31'54	20°47	6°10	27°46	11°27	11°31	18°37	15°48	23°35	25°25	23°44	24°32	16° 6	11°24	W 5
T 6	18 57 56	14°29'06	4 ¹¹ 36	7°41	28°50	12° 9	11°25	18°44	15°47	23°37	25°25	23°43	24°28	16°13	11°30	T 6
F 7	19 1 53	15°26'18	18°15	9° 9	29°54	12°51	11°20	18°52	15°47	23°38	25°26	23°39	24°25	16°19	11°36	F 7
S 8	19 5 49	16°23'30	1 ² 43	10°35	0 ¹¹ 58	13°33	11°15	18°59	15°46	23°40	25°26	23°33	24°22	16°26	11°42	S 8
S 9	19 9 46	17°20'42	15° 0	11°58	2° 1	14°15	11°10	19° 6	15°45	23°42	25°26	23°24	24°19	16°33	11°48	S 9
M10	19 13 42	18°17'53	28° 4	13°20	3° 4	14°57	11° 5	19°13	15°44	23°44	25°27	23°14	24°16	16°39	11°54	M10
T 11	19 17 39	19°15'05	10 ² 55	14°38	4° 7	15°39	11° 0	19°20	15°43	23°46	25°27	23° 3	24°13	16°46	12° 0	T 11
W12	19 21 35	20°12'17	23°33	15°55	5°10	16°20	10°56	19°28	15°42	23°48	25°27	22°52	24° 9	16°53	12° 6	W12
T 13	19 25 32	21° 9'29	5 ² 58	17° 9	6°12	17° 2	10°52	19°35	15°41	23°50	25°28	22°43	24° 6	16°59	12°12	T 13
F 14	19 29 29	22° 6'41	18° 9	18°20	7°14	17°43	10°47	19°42	15°40	23°52	25°28	22°36	24° 3	17° 6	12°18	F 14
S 15	19 33 25	23° 3'53	0 ² 10	19°29	8°15	18°25	10°43	19°49	15°39	23°54	25°28	22°31	24° 0	17°12	12°24	S 15
S 16	19 37 22	24° 1'06	12° 3	20°35	9°17	19° 6	10°39	19°56	15°38	23°56	25°28	22°28	24°57	17°19	12°30	S 16
M17	19 41 18	24°58'20	23°51	21°38	10°18	19°48	10°36	20° 2	15°36	23°57	25°28	22°D28	23°53	17°26	12°36	M17
T 18	19 45 15	25°55'34	5 ² 39	22°38	11°19	20°29	10°32	20° 9	15°35	23°59	25°29	22°28	23°50	17°32	12°42	T 18
W19	19 49 11	26°52'48	17°31	23°36	12°19	21°10	10°29	20°16	15°34	24° 2	25°29	22°29	23°47	17°39	12°48	W19
T 20	19 53 8	27°50'04	29°34	24°30	13°19	21°52	10°26	20°23	15°32	24° 4	25°29	22°R30	23°44	17°46	12°54	T 20
F 21	19 57 4	28°47'20	11 ² 51	25°21	14°19	22°33	10°23	20°30	15°31	24° 6	25°29	22°29	23°41	17°52	13° 0	F 21
S 22	20 1 1	29°44'37	24°29	26° 9	15°18	23°14	10°20	20°36	15°30	24° 8	25°29	22°26	23°38	17°59	13° 6	S 22
S 23	20 4 57	0 ² 41'54	7 ¹¹ 30	26°53	16°17	23°55	10°17	20°43	15°28	24°10	25°29	22°21	23°34	18° 6	13°12	S 23
M24	20 8 54	1°39'13	20°57	27°33	17°16	24°36	10°15	20°50	15°27	24°12	25°29	22°15	23°31	18°12	13°18	M24
T 25	20 12 51	2°36'32	4 ² 51	28°10	18°14	25°17	10°12	20°56	15°25	24°14	25°R29	22° 7	23°28	18°19	13°23	T 25
W26	20 16 47	3°33'52	19° 9	28°43	19°12	25°57	10°10	21° 3	15°24	24°16	25°29	21°59	23°25	18°26	13°29	W26
T 27	20 20 44	4°31'13	3 ² 45	29°12	20°10	26°38	10° 8	21° 9	15°22	24°18	25°29	21°52	23°22	18°32	13°35	T 27
F 28	20 24 40	5°28'34	18°33	29°36	21° 7	27°19	10° 6	21°15	15°20	24°20	25°29	21°47	23°19	18°39	13°41	F 28
S 29	20 28 37	6°25'56	3 ¹¹ 26	29°56	22° 3	28° 0	10° 5	21°22	15°19	24°22	25°29	21°44	23°15	18°46	13°47	S 29
S 30	20 32 33	7°23'18	18°14	0 ¹¹ 11	23° 0	28°40	10° 3	21°28	15°17	24°24	25°29	21°D43	23°12	18°52	13°52	S 30
M31	20 36 30	8 ² 20'41	2 ² 52	0 ¹¹ 22	23 ¹¹ 55	29 ¹¹ 21	10 ² 7	21 ¹¹ 34	15 ² 15	24 ² 27	25 ² 29	21 ¹¹ 43	23 ¹¹ 9	18 ² 59	13 ² 58	M31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	23n 4	11n11	2s32	21n54	1n45	15n15	1n39	21n41	0s 3	21s33	0n39	21n30	1s24	6s18	0s47	S 1
S 2	23 0	7 12	1 21	21 28	1 41	14 51	1 36	21 48	0 3	21 33	0 39	21 30	1 24	6 19	0 47	S 2
M 3	22 55	2 51	0 6	21 1	1 36	14 26	1 34	21 55	0 2	21 32	0 39	21 31	1 24	6 19	0 47	M 3
T 4	22 50	1s38	1n 9	20 33	1 30	14 1	1 31	22 1	0 1	21 32	0 38	21 32	1 24	6 19	0 48	T 4
W 5	22 44	5 58	2 19	20 5	1 24	13 36	1 27	22 8	0 0	21 31	0 38	21 32	1 24	6 20	0 48	W 5
T 6	22 38	9 55	3 19	19 36	1 18	13 11	1 24	22 14	0n 0	21 31	0 38	21 33	1 24	6 20	0 48	T 6
F 7	22 32	13 17	4 8	19 6	1 11	12 45	1 21	22 21	0 1	21 30	0 38	21 33	1 24	6 20	0 48	F 7
S 8	22 25	15 53	4 42	18 35	1 3	12 20	1 17	22 26	0 2	21 30	0 38	21 34	1 24	6 21	0 48	S 8
S 9	22 18	17 37	5 0	18 4	0 55	11 54	1 13	22 32	0 2	21 29	0 37	21 35	1 24	6 21	0 48	S 9
M10	22 11	18 22	5 2	17 33	0 47	11 27	1 10	22 38	0 3	21 29	0 37	21 35	1 24	6 21	0 48	M10
T 11	22 3	18 11	4 49	17 2	0 38	11 1	1 6	22 43	0 4	21 28	0 37	21 36	1 24	6 22	0 48	T 11
W12	21 54	17 5	4 22	16 30	0 28	10 34	1 2	22 48	0 5	21 28	0 37	21 36	1 24	6 22	0 48	W12
T 13	21 46	15 11	3 42	15 59	0 19	10 7	0 57	22 53	0 5	21 27	0 37	21 37	1 24	6 23	0 48	T 13
F 14	21 37	12 38	2 53	15 27	0 8	9 40	0 53	22 58	0 6	21 27	0 36	21 37	1 24	6 23	0 48	F 14
S 15	21 27	9 35	1 57	14 56	0s 2	9 13	0 49	23 2	0 7	21 27	0 36	21 38	1 24	6 24	0 48	S 15
S 16	21 18	6 11	0 56	14 25	0 13	8 46	0 44	23 6	0 7	21 26	0 36	21 38	1 24	6 24	0 48	S 16
M17	21 7	2 33	0s 7	13 54	0 24	8 19	0 39	23 10	0 8	21 26	0 36	21 39	1 24	6 25	0 48	M17
T 18	20 57	1n10	1 10	13 24	0 36	7 51	0 34	23 14	0 9	21 26	0 36	21 39	1 24	6 25	0 48	T 18
W19	20 46	4 52	2 11	12 54	0 48	7 23	0 29	23 18	0 10	21 25	0 35	21 40	1 24	6 26	0 48	W19
T 20	20 35	8 24	3 6	12 24	1 0	6 56	0 24	23 21	0 10	21 25	0 35	21 40	1 24	6 26	0 48	T 20
F 21	20 23	11 40	3 54	11 55	1 13	6 28	0 19	23 24	0 11	21 25	0 35	21 41	1 24	6 27	0 48	F 21
S 22	20 12	14 29	4 32	11 28	1 25	6 0	0 14	23 27	0 12	21 25	0 35	21 41	1 24	6 27	0 48	S 22
S 23	19 59	16 39	4 58	11 0	1 38	5 32	0 8	23 30	0 13	21 24	0 35	21 42	1 24	6 28	0 48	S 23
M24	19 47	18 0	5 8	10 34	1 51	5 4	0 3	23 32	0 13	21 24	0 34	21 42	1 25	6 28	0 48	M24
T 25	19 34	18 20	5 0	10 10	2 4	4 36	0s 3	23 35	0 14	21 24	0 34	21 43	1 25	6 29	0 48	T 25
W26	19 21	17 32	4 34	9 46	2 17	4 8	0 9	23 37	0 15	21 24	0 34	21 43	1 25	6 30	0 48	W26
T 27	19 7	15 34	3 50	9 24	2 30	3 40	0 15	23 39	0 16	21 24	0 34	21 43	1 25	6 30	0 48	T 27
F 28	18 53	12 34	2 50	9 3	2 44	3 12	0 21	23 40	0 16	21 24	0 34	21 44	1 25	6 31	0 48	F 28
S 29	18 39	8 44	1 37	8 44	2 57	2 44	0 27	23 42	0 17	21 24	0 33	21 44	1 25	6 32	0 48	S 29
S 30	18 25	4 22	0 19	8 26	3 9	2 16	0 34	23 43	0 18	21 24	0 33	21 45	1 25	6 32	0 48	S 30
M31	18n10	0s13	1n 0	8n11	3s22	1n48	0s40	23n44	0n19	21s24	0n33	21n45	1s25	6s33	0s48	M31

Julian Day Number = 2484598.5, Delta T = 88.97 sec
 Ecliptic obliquity = 23°25'29, Nutation = -0°00'01, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°00'17, Lahiri = 25°07'17

ASTRODIENST EPHEMERIS for the year 2090
geocentric

AUGUST 2090

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	20 40 26	9♌18°05	17♊16	0♉27	24♋50	0♌1	10°R 1	21♐40	15°R14	24♌29	25°R29	21♋44	23♎6	19♈5	14♉4	T 1
W 2	20 44 23	10°15'29	1♋22	0°R28	25°45	0°41	10♊0	21°46	15♋12	24°31	25°Y29	21°45	23°3	19°12	14°10	W 2
T 3	20 48 20	11°12'53	15°10	0°23	26°39	1°22	9°59	21°52	15°10	24°33	25°28	21°R45	22°59	19°19	14°15	T 3
F 4	20 52 16	12°10'18	28°41	0°13	27°33	2°2	9°59	21°58	15°8	24°35	25°28	21°44	22°56	19°25	14°21	F 4
S 5	20 56 13	13°7'44	11♊56	29♌58	28°26	2°42	9°59	22°4	15°6	24°37	25°28	21°41	22°53	19°32	14°26	S 5
S 6	21 0 9	14°5'11	24°55	29°38	29°18	3°22	9°D59	22°10	15°4	24°40	25°28	21°37	22°50	19°39	14°32	S 6
M 7	21 4 6	15°2'38	7♌40	29°13	0♌10	4°2	9°59	22°16	15°2	24°42	25°27	21°31	22°47	19°45	14°37	M 7
T 8	21 8 2	16°0'06	20°13	28°43	1°1	4°42	9°59	22°21	15°0	24°44	25°27	21°25	22°44	19°52	14°43	T 8
W 9	21 11 59	16°57'35	2♋33	28°8	1°52	5°22	9°59	22°27	14°58	24°46	25°27	21°19	22°40	19°59	14°48	W 9
T 10	21 15 56	17°55'05	14°44	27°29	2°42	6°2	10°0	22°33	14°56	24°48	25°27	21°14	22°37	20°5	14°54	T 10
F 11	21 19 52	18°52'36	26°45	26°47	3°31	6°42	10°1	22°38	14°54	24°51	25°26	21°10	22°34	20°12	14°59	F 11
S 12	21 23 49	19°50'08	8♋40	26°1	4°19	7°21	10°2	22°43	14°52	24°53	25°26	21°8	22°31	20°19	15°5	S 12
S 13	21 27 45	20°47'41	20°29	25°14	5°7	8°1	10°3	22°49	14°50	24°55	25°25	21°D 7	22°28	20°25	15°10	S 13
M14	21 31 42	21°45'15	2°Y16	24°25	5°53	8°40	10°4	22°54	14°48	24°57	25°25	21°8	22°25	20°32	15°15	M14
T 15	21 35 38	22°42'51	14°3	23°35	6°39	9°20	10°6	22°59	14°46	25°0	25°25	21°9	22°21	20°38	15°20	T 15
W16	21 39 35	23°40'28	25°56	22°45	7°25	9°59	10°7	23°4	14°44	25°2	25°24	21°11	22°18	20°45	15°26	W16
T 17	21 43 31	24°38'07	7♌59	21°57	8°9	10°39	10°9	23°9	14°41	25°4	25°24	21°12	22°15	20°52	15°31	T 17
F 18	21 47 28	25°35'47	20°15	21°12	8°52	11°18	10°11	23°14	14°39	25°6	25°23	21°R13	22°12	20°58	15°36	F 18
S 19	21 51 24	26°33'29	2♐51	20°29	9°35	11°57	10°14	23°19	14°37	25°8	25°23	21°13	22°9	21°5	15°41	S 19
S 20	21 55 21	27°31'13	15°49	19°51	10°16	12°36	10°16	23°24	14°35	25°11	25°22	21°12	22°5	21°12	15°46	S 20
M21	21 59 18	28°28'58	29°13	19°17	10°56	13°16	10°19	23°29	14°32	25°13	25°22	21°10	22°2	21°18	15°51	M21
T 22	22 3 14	29°26'45	13♌4	18°50	11°36	13°55	10°21	23°34	14°30	25°15	25°21	21°7	21°59	21°25	15°56	T 22
W23	22 7 11	0♐24'33	27°22	18°29	12°14	14°34	10°24	23°38	14°28	25°17	25°21	21°4	21°56	21°32	16°1	W23
T 24	22 11 7	1°22'23	12♌4	18°14	12°51	15°12	10°27	23°43	14°26	25°20	25°20	21°2	21°53	21°38	16°6	T 24
F 25	22 15 4	2°20'14	27°2	18°D 7	13°27	15°51	10°31	23°47	14°23	25°22	25°19	21°0	21°50	21°45	16°11	F 25
S 26	22 19 0	3°18'07	12♎9	18°8	14°2	16°30	10°34	23°51	14°21	25°24	25°19	20°59	21°46	21°52	16°15	S 26
S 27	22 22 57	4°16'02	27°16	18°17	14°35	17°9	10°38	23°56	14°19	25°26	25°18	20°D59	21°43	21°58	16°20	S 27
M28	22 26 53	5°13'57	12♊13	18°33	15°7	17°47	10°42	24°0	14°16	25°28	25°17	21°0	21°40	22°5	16°25	M28
T 29	22 30 50	6°11'54	26°54	18°58	15°38	18°26	10°46	24°4	14°14	25°31	25°17	21°1	21°37	22°11	16°30	T 29
W30	22 34 47	7°9'52	11♋14	19°30	16°7	19°4	10°50	24°8	14°11	25°33	25°16	21°2	21°34	22°18	16°34	W30
T 31	22 38 43	8♎7'52	25♋10	20♌11	16♊35	19♌43	10♊54	24♐12	14♋9	25♌35	25°Y15	21♎3	21♎30	22♋25	16♌39	T 31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
T 1	17n55	4s42 2n14	7n58 3s34	1n20 0s47	23n45	0n19 21s24	0n33 21n45	1s25 6s34	0s48 13n42	0n22 6s12	17s12 3n17	2n44 3s59	16n38 6s5		
W 2	17 40	8 50 3 19	7 46 3 46	0 52 0 54	23 46	0 20 21 24	0 33 21 46	1 25 6 34	0 48 13 41	0 22 6 13	17 13 3 16	2 46 3 57	16 37 6 6		
T 3	17 24	12 23 4 10	7 37 3 57	0 24 1 1	23 46	0 21 21 24	0 32 21 46	1 25 6 35	0 48 13 40	0 22 6 13	17 13 3 16	2 47 3 55	16 36 6 6		
F 4	17 8	15 12 4 46	7 31 4 8	0s 4 1 8	23 46	0 22 21 24	0 32 21 46	1 25 6 36	0 48 13 40	0 22 6 13	17 13 3 17	2 48 3 54	16 35 6 6		
S 5	16 52	17 8 5 7	7 27 4 18	0 31 1 15	23 46	0 22 21 24	0 32 21 47	1 25 6 37	0 48 13 39	0 22 6 14	17 14 3 18	2 49 3 52	16 34 6 6		
S 6	16 36	18 9 5 10	7 26 4 27	0 59 1 22	23 46	0 23 21 25	0 32 21 47	1 25 6 37	0 49 13 38	0 22 6 14	17 14 3 20	2 51 3 50	16 33 6 7		
M 7	16 19	18 14 4 59	7 27 4 34	1 26 1 30	23 46	0 24 21 25	0 32 21 47	1 25 6 38	0 49 13 37	0 22 6 15	17 14 3 22	2 52 3 48	16 33 6 7		
T 8	16 2	17 24 4 33	7 31 4 41	1 53 1 37	23 45	0 25 21 25	0 31 21 47	1 25 6 39	0 49 13 37	0 22 6 15	17 15 3 24	2 53 3 46	16 32 6 7		
W 9	15 45	15 46 3 55	7 38 4 46	2 21 1 45	23 44	0 25 21 25	0 31 21 48	1 25 6 40	0 49 13 36	0 22 6 15	17 15 3 26	2 54 3 45	16 31 6 8		
T 10	15 27	13 26 3 6	7 48 4 50	2 48 1 53	23 43	0 26 21 26	0 31 21 48	1 25 6 41	0 49 13 35	0 22 6 16	17 15 3 28	2 56 3 43	16 30 6 8		
F 11	15 9	10 33 2 10	8 4 4 52	3 14 2 1	23 42	0 27 21 26	0 31 21 48	1 25 6 41	0 49 13 34	0 22 6 16	17 16 3 30	2 57 3 41	16 29 6 8		
S 12	14 51	7 16 1 8	8 15 4 52	3 41 2 9	23 41	0 28 21 26	0 31 21 48	1 25 6 42	0 49 13 34	0 22 6 17	17 16 3 31	2 58 3 39	16 28 6 9		
S 13	14 33	3 43 0 4	8 32 4 51	4 7 2 17	23 39	0 29 21 27	0 30 21 49	1 25 6 43	0 49 13 33	0 22 6 17	17 16 3 31	2 59 3 37	16 27 6 9		
M14	14 15	0 2 1s 1	8 51 4 47	4 33 2 25	23 38	0 29 21 27	0 30 21 49	1 25 6 44	0 49 13 32	0 22 6 17	17 17 3 31	3 1 3 36	16 26 6 9		
T 15	13 56	3n39 2 3	9 12 4 42	4 59 2 33	23 36	0 30 21 27	0 30 21 49	1 25 6 45	0 49 13 32	0 22 6 18	17 17 3 30	3 2 3 34	16 25 6 10		
W16	13 37	7 13 3 0	9 35 4 35	5 25 2 42	23 34	0 31 21 28	0 30 21 49	1 25 6 46	0 49 13 31	0 22 6 18	17 17 3 30	3 3 3 32	16 24 6 10		
T 17	13 18	10 32 3 50	9 58 4 26	5 50 2 50	23 31	0 32 21 28	0 29 21 50	1 25 6 46	0 49 13 30	0 22 6 19	17 18 3 29	3 4 3 30	16 23 6 10		
F 18	12 59	13 27 4 31	10 23 4 16	6 16 2 59	23 29	0 32 21 29	0 29 21 50	1 26 6 47	0 49 13 29	0 22 6 19	17 18 3 29	3 6 3 28	16 23 6 11		
S 19	12 39	15 49 4 59	10 48 4 4	6 40 3 8	23 26	0 33 21 29	0 29 21 50	1 26 6 48	0 49 13 29	0 22 6 20	17 18 3 29	3 7 3 27	16 22 6 11		
S 20	12 20	17 28 5 14	11 13 3 50	7 5 3 17	23 23	0 34 21 30	0 29 21 50	1 26 6 49	0 49 13 28	0 22 6 20	17 19 3 29	3 8 3 25	16 21 6 11		
M21	12 0	18 13 5 12	11 37 3 35	7 29 3 26	23 20	0 35 21 30	0 29 21 50	1 26 6 50	0 49 13 27	0 22 6 21	17 19 3 30	3 9 3 23	16 20 6 12		
T 22	11 40	17 56 4 53	12 1 3 19	7 53 3 35	23 17	0 36 21 31	0 29 21 50	1 26 6 51	0 49 13 26	0 22 6 21	17 19 3 31	3 11 3 21	16 19 6 12		
W23	11 19	16 31 4 15	12 23 3 3	8 16 3 44	23 14	0 36 21 32	0 28 21 51	1 26 6 52	0 49 13 26	0 22 6 22	17 19 3 32	3 12 3 19	16 18 6 13		
T 24	10 59	13 59 3 19	12 44 2 45	8 39 3 54	23 10	0 37 21 32	0 28 21 51	1 26 6 53	0 49 13 25	0 22 6 22	17 20 3 33	3 13 3 18	16 17 6 13		
F 25	10 38	10 29 2 9	13 3 2 27	9 2 4 3	23 7	0 38 21 33	0 28 21 51	1 26 6 54	0 49 13 24	0 22 6 23	17 20 3 34	3 14 3 16	16 16 6 13		
S 26	10 17	6 15 0 49	13 20 2 9	9 24 4 12	23 3	0 39 21 34	0 28 21 51	1 26 6 54	0 49 13 23	0 22 6 23	17 20 3 34	3 16 3 14	16 15 6 14		
S 27	9 56	1 37 0n35	13 35 1 51	9 46 4 22	22 59	0 39 21 34	0 28 21 51	1 26 6 55	0 49 13 23	0 22 6 24	17 21 3 34	3 17 3 12	16 14 6 14		
M28	9 35	3s 4 1 55	13 47 1 33	10 7 4 31	22 55	0 40 21 35	0 27 21 51	1 26 6 56	0 49 13 22	0 22 6 24	17 21 3 34	3 18 3 10	16 13 6 15		
T 29	9 14	7 28 3 6	13 57 1 15	10 28 4 41	22 50	0 41 21 36	0 27 21 51	1 26 6 57	0 49 13 21	0 22 6 24	17 21 3 34	3 19 3 9	16 12 6 15		
W30	8 53	11 19 4 4	14 3 0 57	10 48 4 51	22 46	0 42 21 37	0 27 21 51	1 26 6 58	0 49 13 21	0 22 6 25	17 21 3 33	3 21 3 7	16 11 6 16		
T 31	8n31	14s25 4n46	14n 7 0s40	11s 8 5s 1	22n41	0n43 21s37	0n27 21n52	1s26 6s59	0s49 13n20	0n22 6s25	17s22 3n33	3n22 3s5	16n10 6s16		

Julian Day Number = 2484629.5, Delta T = 89.00 sec
Ecliptic obliquity = 23°25'30, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°00'21, Lahiri = 25°07'22

ASTRODIENST EPHEMERIS for the year 2090

geocentric

SEPTEMBER 2090

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 42 40	9♍ 5'53	8♌43	20♌59	17♌ 1	20♌21	10♌59	24♌15	14°R 7	25♌37	25°R15	21°R 3	21♍27	22♌31	16♌43	F 1
S 2	22 46 36	10° 3'55	21°53	21°55	17°26	20°59	11° 3	24°19	14°R 4	25°39	25°R14	21°R 3	21°24	22°38	16°47	S 2
S 3	22 50 33	11° 1'59	4♌43	22°57	17°48	21°37	11° 8	24°23	14° 2	25°41	25°13	21° 2	21°21	22°45	16°52	S 3
M 4	22 54 29	12° 0'04	17°16	24° 7	18° 9	22°15	11°13	24°26	13°59	25°44	25°12	21° 1	21°18	22°51	16°56	M 4
T 5	22 58 26	12°58'10	29°35	25°22	18°29	22°53	11°18	24°30	13°57	25°46	25°12	21° 0	21°15	22°58	17° 0	T 5
W 6	23 2 22	13°56'18	11♌43	26°44	18°46	23°31	11°24	24°33	13°55	25°48	25°11	20°59	21°11	23° 5	17° 5	W 6
T 7	23 6 19	14°54'28	23°42	28°10	19° 1	24° 9	11°29	24°36	13°52	25°50	25°10	20°58	21° 8	23°11	17° 9	T 7
F 8	23 10 16	15°52'39	5♌35	29°42	19°15	24°47	11°35	24°39	13°50	25°52	25° 9	20°57	21° 5	23°18	17°13	F 8
S 9	23 14 12	16°50'52	17°24	1♍17	19°26	25°24	11°41	24°43	13°48	25°54	25° 8	20°D57	21° 2	23°25	17°17	S 9
S 10	23 18 9	17°49'06	29°12	2°57	19°36	26° 2	11°46	24°45	13°45	25°56	25° 7	20°57	20°59	23°31	17°21	S 10
M11	23 22 5	18°47'22	11°Y 0	4°40	19°43	26°40	11°53	24°48	13°43	25°58	25° 7	20°57	20°56	23°38	17°25	M11
T 12	23 26 2	19°45'40	22°52	6°25	19°48	27°17	11°59	24°51	13°40	26° 0	25° 6	20°58	20°52	23°44	17°28	T 12
W13	23 29 58	20°44'01	4♌49	8°12	19°50	27°54	12° 5	24°54	13°38	26° 3	25° 5	20°R58	20°49	23°51	17°32	W13
T 14	23 33 55	21°42'23	16°55	10° 2	19°R51	28°32	12°12	24°56	13°36	26° 5	25° 4	20°58	20°46	23°58	17°36	T 14
F 15	23 37 51	22°40'47	29°14	11°52	19°49	29° 9	12°18	24°59	13°33	26° 7	25° 3	20°57	20°43	24° 4	17°39	F 15
S 16	23 41 48	23°39'14	11♌49	13°44	19°44	29°46	12°25	25° 1	13°31	26° 9	25° 2	20°57	20°40	24°11	17°43	S 16
S 17	23 45 44	24°37'42	24°43	15°36	19°38	0♌23	12°32	25° 3	13°29	26°11	25° 1	20°D57	20°36	24°18	17°46	S 17
M18	23 49 41	25°36'13	8♌ 0	17°29	19°29	1° 0	12°39	25° 5	13°26	26°13	25° 0	20°57	20°33	24°24	17°50	M18
T 19	23 53 38	26°34'46	21°42	19°22	19°17	1°37	12°47	25° 7	13°24	26°15	24°59	20°58	20°30	24°31	17°53	T 19
W20	23 57 34	27°33'21	5♌50	21°14	19° 4	2°14	12°54	25° 9	13°22	26°17	24°58	20°58	20°27	24°38	17°57	W20
T 21	0 1 31	28°31'59	20°23	23° 7	18°47	2°51	13° 1	25°11	13°19	26°19	24°57	20°59	20°24	24°44	18° 0	T 21
F 22	0 5 27	29°30'38	5♍16	24°59	18°29	3°27	13° 9	25°13	13°17	26°21	24°56	20°59	20°21	24°51	18° 3	F 22
S 23	0 9 24	0♌29'19	20°22	26°50	18° 8	4° 4	13°17	25°15	13°15	26°22	24°55	21°R 0	20°17	24°58	18° 6	S 23
S 24	0 13 20	1°28'03	5♌34	28°41	17°46	4°40	13°25	25°16	13°13	26°24	24°54	20°59	20°14	25° 4	18° 9	S 24
M25	0 17 17	2°26'48	20°42	0♌31	17°21	5°17	13°33	25°17	13°10	26°26	24°53	20°59	20°11	25°11	18°12	M25
T 26	0 21 13	3°25'35	5♍36	2°21	16°54	5°53	13°41	25°19	13° 8	26°28	24°52	20°57	20° 8	25°17	18°15	T 26
W27	0 25 10	4°24'24	20°10	4° 9	16°25	6°29	13°49	25°20	13° 6	26°30	24°51	20°56	20° 5	25°24	18°17	W27
T 28	0 29 7	5°23'15	4♌18	5°57	15°55	7° 5	13°58	25°21	13° 4	26°32	24°50	20°54	20° 2	25°31	18°20	T 28
F 29	0 33 3	6°22'08	17°58	7°44	15°23	7°41	14° 6	25°22	13° 2	26°34	24°49	20°53	19°58	25°37	18°23	F 29
S 30	0 37 0	7♌21'02	1♌12	9♌30	14♌49	8♌17	14♌15	25♌23	12♌59	26♌35	24♌48	20♌52	19♌55	25♌44	18♌25	S 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	8n 9	16s38	5n10	14n 7	0s24	11s27	5s10	22n36	0n43	21s38	0n27	21n52	1s26	7s 0	0s49	F 1
S 2	7 47	17 54	5 17	14 4	0 8	11 46	5 20	22 31	0 44	21 39	0 26	21 52	1 27	7 1	0 49	S 2
S 3	7 25	18 12	5 8	13 58	0n 7	12 3	5 30	22 26	0 45	21 40	0 26	21 52	1 27	7 2	0 49	S 3
M 4	7 3	17 36	4 45	13 48	0 21	12 21	5 40	22 21	0 46	21 41	0 26	21 52	1 27	7 3	0 49	M 4
T 5	6 41	16 11	4 8	13 35	0 34	12 37	5 49	22 15	0 47	21 42	0 26	21 52	1 27	7 4	0 49	T 5
W 6	6 19	14 2	3 21	13 19	0 46	12 53	5 59	22 9	0 47	21 43	0 26	21 52	1 27	7 5	0 49	W 6
T 7	5 56	11 19	2 26	12 59	0 57	13 7	6 9	22 4	0 48	21 44	0 26	21 52	1 27	7 6	0 49	T 7
F 8	5 34	8 9	1 24	12 37	1 7	13 21	6 18	21 58	0 49	21 44	0 25	21 52	1 27	7 6	0 49	F 8
S 9	5 11	4 40	0 20	12 11	1 15	13 34	6 28	21 52	0 50	21 45	0 25	21 52	1 27	7 7	0 49	S 9
S 10	4 49	1 1	0s46	11 42	1 23	13 47	6 37	21 45	0 51	21 46	0 25	21 52	1 27	7 8	0 49	S 10
M11	4 26	2n41	1 49	11 11	1 30	13 58	6 46	21 39	0 51	21 47	0 25	21 52	1 27	7 9	0 49	M11
T 12	4 3	6 17	2 48	10 38	1 35	14 8	6 55	21 33	0 52	21 48	0 25	21 52	1 27	7 10	0 49	T 12
W13	3 40	9 39	3 41	10 2	1 40	14 17	7 4	21 26	0 53	21 49	0 24	21 52	1 27	7 11	0 49	W13
T 14	3 17	12 40	4 24	9 24	1 44	14 25	7 12	21 19	0 54	21 50	0 24	21 52	1 27	7 12	0 49	T 14
F 15	2 54	15 10	4 56	8 45	1 46	14 32	7 21	21 13	0 55	21 51	0 24	21 52	1 28	7 13	0 49	F 15
S 16	2 31	17 0	5 14	8 3	1 48	14 38	7 28	21 6	0 56	21 53	0 24	21 52	1 28	7 14	0 49	S 16
S 17	2 8	18 2	5 17	7 21	1 49	14 42	7 36	20 58	0 56	21 54	0 24	21 52	1 28	7 15	0 49	S 17
M18	1 45	18 7	5 4	6 37	1 49	14 45	7 43	20 51	0 57	21 55	0 24	21 52	1 28	7 15	0 49	M18
T 19	1 22	17 10	4 33	5 53	1 49	14 47	7 50	20 44	0 58	21 56	0 23	21 52	1 28	7 16	0 49	T 19
W20	0 58	15 9	3 46	5 7	1 48	14 47	7 56	20 36	0 59	21 57	0 23	21 52	1 28	7 17	0 49	W20
T 21	0 35	12 7	2 42	4 21	1 46	14 46	8 2	20 29	1 0	21 58	0 23	21 52	1 28	7 18	0 49	T 21
F 22	0 12	8 14	1 26	3 35	1 44	14 44	8 7	20 21	1 1	21 59	0 23	21 52	1 28	7 19	0 49	F 22
S 23	0s12	3 46	0 3	2 48	1 41	14 40	8 11	20 13	1 1	22 0	0 23	21 52	1 28	7 20	0 49	S 23
S 24	0 35	0s59	1n20	2 1	1 37	14 35	8 15	20 5	1 2	22 1	0 23	21 52	1 28	7 21	0 49	S 24
M25	0 58	5 39	2 38	1 13	1 34	14 28	8 18	19 57	1 3	22 2	0 22	21 52	1 28	7 22	0 49	M25
T 26	1 22	9 52	3 43	0 26	1 29	14 20	8 21	19 49	1 4	22 4	0 22	21 52	1 28	7 22	0 49	T 26
W27	1 45	13 24	4 33	0s21	1 25	14 10	8 22	19 41	1 5	22 5	0 22	21 52	1 29	7 23	0 49	W27
T 28	2 8	16 1	5 4	1 8	1 20	13 59	8 23	19 33	1 6	22 6	0 22	21 52	1 29	7 24	0 49	T 28
F 29	2 32	17 38	5 16	1 55	1 15	13 46	8 23	19 24	1 7	22 7	0 22	21 52	1 29	7 25	0 49	F 29
S 30	2s55	18s13	5n12	2s42	1n 9	13s32	8s22	19n16	1n 7	22s 8	0n22	21n52	1s29	7s26	0s49	S 30

Julian Day Number = 2484660.5, Delta T = 89.04 sec

Ecliptic obliquity = 23°25'30, Nutation = - 0°00'02, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°00'25, Lahiri = 25°07'26

ASTRODIENST EPHEMERIS for the year 2090

geocentric

OCTOBER 2090

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 40 56	8♏19'59	14♏1	11♏15	14♏R15	8♏53	14♏♂24	25♏23	12♏R57	26♏L37	24♏R47	20♏D52	19♏♂52	25♏♂51	18♏♂28	S 1
M 2	0 44 53	9°18'56	26°30	12°59	13♏39	9°29	14°33	25°24	12♏♂55	26°39	24♏♂45	20♏♂53	19°49	25°57	18°30	M 2
T 3	0 48 49	10°17'56	8♏43	14°43	13° 3	10° 4	14°42	25°25	12°53	26°41	24°44	20°54	19°46	26° 4	18°32	T 3
W 4	0 52 46	11°16'57	20°43	16°25	12°26	10°40	14°51	25°25	12°51	26°42	24°43	20°56	19°42	26°11	18°35	W 4
T 5	0 56 42	12°16'01	2♏35	18° 7	11°50	11°15	15° 0	25°25	12°49	26°44	24°42	20°57	19°39	26°17	18°37	T 5
F 6	1 0 39	13°15'05	14°24	19°48	11°13	11°51	15°10	25°25	12°47	26°46	24°41	20°58	19°36	26°24	18°39	F 6
S 7	1 4 36	14°14'12	26°11	21°28	10°36	12°26	15°19	25°R26	12°45	26°47	24°40	20°R58	19°33	26°31	18°41	S 7
S 8	1 8 32	15°13'21	8♏0	23° 7	10° 0	13° 1	15°29	25°25	12°43	26°49	24°39	20°57	19°30	26°37	18°43	S 8
M 9	1 12 29	16°12'32	19°53	24°45	9°24	13°36	15°39	25°25	12°42	26°51	24°38	20°55	19°27	26°44	18°44	M 9
T 10	1 16 25	17°11'45	1♏53	26°23	8°50	14°11	15°48	25°25	12°40	26°52	24°36	20°51	19°23	26°51	18°46	T 10
W11	1 20 22	18°11'00	14° 0	28° 0	8°17	14°46	15°58	25°25	12°38	26°54	24°35	20°47	19°20	26°57	18°48	W11
T 12	1 24 18	19°10'17	26°17	29°36	7°45	15°21	16° 8	25°24	12°36	26°55	24°34	20°42	19°17	27° 4	18°49	T 12
F 13	1 28 15	20° 9'37	8♏45	1♏11	7°14	15°55	16°18	25°24	12°34	26°57	24°33	20°37	19°14	27°10	18°51	F 13
S 14	1 32 11	21° 8'58	21°26	2°46	6°46	16°30	16°29	25°23	12°33	26°58	24°32	20°33	19°11	27°17	18°52	S 14
S 15	1 36 8	22° 8'22	4♏22	4°20	6°19	17° 4	16°39	25°22	12°31	27° 0	24°31	20°30	19° 7	27°24	18°53	S 15
M16	1 40 4	23° 7'49	17°36	5°53	5°55	17°38	16°50	25°21	12°29	27° 1	24°30	20°D29	19° 4	27°30	18°55	M16
T 17	1 44 1	24° 7'17	1♏10	7°25	5°32	18°13	17° 0	25°20	12°28	27° 2	24°28	20°29	19° 1	27°37	18°56	T 17
W18	1 47 58	25° 6'48	15° 4	8°57	5°12	18°47	17°11	25°19	12°26	27° 4	24°27	20°30	18°58	27°44	18°57	W18
T 19	1 51 54	26° 6'22	29°20	10°29	4°55	19°21	17°21	25°18	12°25	27° 5	24°26	20°31	18°55	27°50	18°58	T 19
F 20	1 55 51	27° 5'57	13♏55	11°59	4°39	19°54	17°32	25°16	12°23	27° 6	24°25	20°R32	18°52	27°57	18°59	F 20
S 21	1 59 47	28° 5'35	28°46	13°29	4°26	20°28	17°43	25°15	12°22	27° 8	24°24	20°32	18°48	28° 4	18°59	S 21
S 22	2 3 44	29° 5'15	13♏47	14°59	4°16	21° 2	17°54	25°13	12°20	27° 9	24°23	20°31	18°45	28°10	19° 0	S 22
M23	2 7 40	0♏4'57	28°49	16°27	4° 7	21°35	18° 5	25°12	12°19	27°10	24°22	20°27	18°42	28°17	19° 1	M23
T 24	2 11 37	1° 4'41	13♏43	17°56	4° 2	22° 8	18°16	25°10	12°17	27°11	24°20	20°21	18°39	28°24	19° 1	T 24
W25	2 15 33	2° 4'27	28°21	19°23	3°59	22°42	18°28	25° 8	12°16	27°13	24°19	20°15	18°36	28°30	19° 1	W25
T 26	2 19 30	3° 4'15	12♏36	20°50	3°D58	23°15	18°39	25° 6	12°15	27°14	24°18	20° 8	18°33	28°37	19° 2	T 26
F 27	2 23 27	4° 4'05	26°24	22°16	3°59	23°48	18°50	25° 4	12°14	27°15	24°17	20° 2	18°29	28°43	19° 2	F 27
S 28	2 27 23	5° 3'56	9♏44	23°41	4° 3	24°20	19° 2	25° 2	12°12	27°16	24°16	19°57	18°26	28°50	19° 2	S 28
S 29	2 31 20	6° 3'49	22°38	25° 6	4°10	24°53	19°14	24°59	12°11	27°17	24°15	19°54	18°23	28°57	19°R 2	S 29
M30	2 35 16	7° 3'49	5♏8	26°29	4°18	25°26	19°25	24°57	12°10	27°18	24°14	19°D53	18°20	29° 3	19° 2	M30
T 31	2 39 13	8♏3'40	17♏20	27♏52	4♏29	25♏58	19♏♂37	24♏♂54	12♏♂9	27♏♂19	24♏♂13	19♏♂53	18♏♂17	29♏♂10	19♏♂2	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	3s18	17s51	4n51	3s28	1n 4	13s17	8s20	19n 7	1n 8	22s 9	0n22	21n52	1s29	7s26	0s49	12n59
M 2	3 41	16 37	4 18	4 14	0 58	13 0	8 17	18 59	1 9	22 11	0 21	21 52	1 29	7 27	0 49	12 59
T 3	4 5	14 39	3 33	5 0	0 52	12 43	8 13	18 50	1 10	22 12	0 21	21 52	1 29	7 28	0 49	12 58
W 4	4 28	12 3	2 40	5 45	0 45	12 24	8 9	18 41	1 11	22 13	0 21	21 52	1 29	7 29	0 49	12 57
T 5	4 51	9 0	1 40	6 30	0 39	12 4	8 3	18 32	1 12	22 14	0 21	21 52	1 29	7 29	0 49	12 57
F 6	5 14	5 35	0 36	7 14	0 32	11 44	7 57	18 23	1 13	22 15	0 21	21 52	1 29	7 30	0 49	12 56
S 7	5 37	1 57	0s29	7 58	0 26	11 23	7 49	18 14	1 14	22 17	0 21	21 52	1 29	7 31	0 48	12 56
S 8	6 0	1n45	1 33	8 41	0 19	11 1	7 41	18 5	1 14	22 18	0 20	21 51	1 29	7 32	0 48	12 55
M 9	6 22	5 25	2 33	9 24	0 12	10 39	7 32	17 56	1 15	22 19	0 20	21 51	1 29	7 32	0 48	12 55
T 10	6 45	8 53	3 26	10 5	0 5	10 16	7 22	17 47	1 16	22 20	0 20	21 51	1 30	7 33	0 48	12 54
W11	7 8	12 2	4 11	10 47	0s 2	9 54	7 12	17 37	1 17	22 21	0 20	21 51	1 30	7 34	0 48	12 54
T 12	7 30	14 41	4 45	11 27	0 9	9 31	7 1	17 28	1 18	22 22	0 20	21 51	1 30	7 34	0 48	12 53
F 13	7 53	16 42	5 6	12 7	0 16	9 8	6 49	17 19	1 19	22 24	0 20	21 51	1 30	7 35	0 48	12 53
S 14	8 15	17 57	5 13	12 47	0 23	8 46	6 37	17 9	1 20	22 25	0 20	21 51	1 30	7 36	0 48	12 52
S 15	8 37	18 17	5 4	13 25	0 29	8 24	6 25	17 0	1 21	22 26	0 19	21 51	1 30	7 36	0 48	12 52
M16	8 59	17 40	4 39	14 3	0 36	8 2	6 12	16 50	1 22	22 27	0 19	21 51	1 30	7 37	0 48	12 51
T 17	9 21	16 1	3 58	14 40	0 43	7 41	5 58	16 40	1 23	22 28	0 19	21 51	1 30	7 37	0 48	12 51
W18	9 43	13 24	3 2	15 16	0 50	7 20	5 45	16 31	1 23	22 29	0 19	21 50	1 30	7 38	0 48	12 50
T 19	10 4	9 56	1 53	15 51	0 57	7 0	5 31	16 21	1 24	22 31	0 19	21 50	1 30	7 39	0 48	12 50
F 20	10 26	5 46	0 36	16 26	1 4	6 41	5 17	16 11	1 25	22 32	0 19	21 50	1 30	7 39	0 48	12 50
S 21	10 47	1 10	0n45	17 0	1 10	6 23	5 3	16 1	1 26	22 33	0 19	21 50	1 30	7 40	0 48	12 49
S 22	11 9	3s32	2 3	17 33	1 17	6 6	4 48	15 51	1 27	22 34	0 19	21 50	1 30	7 40	0 48	12 49
M23	11 30	8 2	3 13	18 5	1 23	5 50	4 34	15 42	1 28	22 35	0 18	21 50	1 30	7 41	0 48	12 48
T 24	11 51	11 59	4 9	18 36	1 30	5 35	4 20	15 32	1 29	22 36	0 18	21 50	1 30	7 41	0 48	12 48
W25	12 11	15 6	4 48	19 6	1 36	5 20	4 6	15 22	1 30	22 37	0 18	21 50	1 31	7 42	0 48	12 48
T 26	12 32	17 13	5 7	19 35	1 42	5 7	3 52	15 12	1 31	22 39	0 18	21 50	1 31	7 42	0 48	12 47
F 27	12 52	18 15	5 8	20 3	1 48	4 55	3 38	15 2	1 32	22 40	0 18	21 49	1 31	7 42	0 48	12 47
S 28	13 12	18 13	4 52	20 31	1 53	4 44	3 24	14 52	1 33	22 41	0 18	21 49	1 31	7 43	0 48	12 46
S 29	13 32	17 14	4 21	20 57	1 59	4 34	3 10	14 42	1 34	22 42	0 18	21 49	1 31	7 43	0 48	12 46
M30	13 52	15 26	3 39	21 22	2 4	4 25	2 57	14 32	1 35	22 43	0 17	21 49	1 31	7 44	0 48	12 46
T 31	14s11	12s59	2n47	21s46	2s 9	4s17	2s44	14n22	1n36	22s44	0n17	21n49	1s31	7s44	0s48	12n45

Julian Day Number = 2484690.5, Delta T = 89.07 sec
 Ecliptic obliquity = 23°25'30", Nutation = - 0°00'04", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°00'29", Lahiri = 25°07'30"

ASTRODIENST EPHEMERIS for the year 2090
geocentric

NOVEMBER 2090

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 43 9	9♉ 3'38	29♊18	29♉14	4♈42	26♈30	19♊49	24°R52	12°R 8	27♈20	24°R11	19♉55	18♉13	29♊17	19°R 2	W 1
T 2	2 47 6	10° 3'38	11♋ 8	0♈35	4°57	27° 2	20° 1	24♈49	12♋ 7	27°21	24°Y10	19°56	18°10	29°23	19°56	T 2
F 3	2 51 2	11° 3'39	22°55	1°55	5°14	27°34	20°13	24°46	12° 6	27°22	24° 9	19°R56	18° 7	29°30	19° 1	F 3
S 4	2 54 59	12° 3'42	4°Y43	3°14	5°33	28° 6	20°25	24°43	12° 6	27°23	24° 8	19°55	18° 4	29°37	19° 1	S 4
S 5	2 58 56	13° 3'46	16°36	4°32	5°54	28°38	20°37	24°41	12° 5	27°24	24° 7	19°51	18° 1	29°43	19° 0	S 5
M 6	3 2 52	14° 3'53	28°36	5°48	6°17	29° 9	20°49	24°37	12° 4	27°24	24° 6	19°45	17°58	29°50	18°59	M 6
T 7	3 6 49	15° 4'01	10♌47	7° 3	6°41	29°40	21° 1	24°34	12° 3	27°25	24° 5	19°37	17°54	29°57	18°59	T 7
W 8	3 10 45	16° 4'11	23° 8	8°16	7° 8	0♉12	21°13	24°31	12° 3	27°26	24° 4	19°27	17°51	0°Y 3	18°58	W 8
T 9	3 14 42	17° 4'22	5♈42	9°28	7°36	0°43	21°26	24°28	12° 2	27°27	24° 3	19°16	17°48	0°10	18°57	T 9
F 10	3 18 38	18° 4'36	18°27	10°37	8° 6	1°13	21°38	24°24	12° 1	27°27	24° 2	19° 5	17°45	0°17	18°56	F 10
S 11	3 22 35	19° 4'52	1♉24	11°44	8°37	1°44	21°51	24°21	12° 1	27°28	24° 1	18°56	17°42	0°23	18°55	S 11
S 12	3 26 31	20° 5'09	14°33	12°48	9°10	2°15	22° 3	24°17	12° 0	27°28	24° 0	18°48	17°38	0°30	18°53	S 12
M13	3 30 28	21° 5'28	27°54	13°50	9°44	2°45	22°16	24°14	12° 0	27°29	23°59	18°43	17°35	0°36	18°52	M13
T 14	3 34 25	22° 5'50	11♈28	14°48	10°20	3°15	22°28	24°10	12° 0	27°30	23°58	18°41	17°32	0°43	18°51	T 14
W15	3 38 21	23° 6'13	25°15	15°42	10°57	3°45	22°41	24° 6	11°59	27°30	23°57	18°D40	17°29	0°50	18°49	W15
T 16	3 42 18	24° 6'38	9♉17	16°33	11°35	4°15	22°54	24° 2	11°59	27°31	23°56	18°41	17°26	0°56	18°48	T 16
F 17	3 46 14	25° 7'05	23°32	17°19	12°15	4°45	23° 7	23°58	11°59	27°31	23°55	18°R41	17°23	1° 3	18°46	F 17
S 18	3 50 11	26° 7'34	8♈ 0	17°59	12°56	5°14	23°20	23°54	11°59	27°31	23°54	18°39	17°19	1°10	18°45	S 18
S 19	3 54 7	27° 8'05	22°38	18°34	13°38	5°43	23°32	23°50	11°59	27°32	23°53	18°36	17°16	1°16	18°43	S 19
M20	3 58 4	28° 8'38	7♉19	19° 2	14°21	6°12	23°45	23°46	11°59	27°32	23°52	18°29	17°13	1°23	18°41	M20
T 21	4 2 0	29° 9'12	21°56	19°23	15° 5	6°41	23°58	23°42	11°D58	27°32	23°51	18°19	17°10	1°30	18°39	T 21
W22	4 5 57	0♈ 9'48	6♈23	19°35	15°50	7°10	24°11	23°37	11°59	27°33	23°50	18° 8	17° 7	1°36	18°37	W22
T 23	4 9 54	1°10'25	20°33	19°R39	16°36	7°38	24°25	23°33	11°59	27°33	23°49	17°56	17° 4	1°43	18°35	T 23
F 24	4 13 50	2°11'04	4♈20	19°33	17°23	8° 6	24°38	23°29	11°59	27°33	23°48	17°45	17° 0	1°50	18°33	F 24
S 25	4 17 47	3°11'44	17°41	19°18	18°11	8°34	24°51	23°24	11°59	27°33	23°48	17°36	16°57	1°56	18°30	S 25
S 26	4 21 43	4°12'25	0♈37	18°51	19° 0	9° 2	25° 4	23°20	11°59	27°33	23°47	17°29	16°54	2° 3	18°28	S 26
M27	4 25 40	5°13'08	13°10	18°14	19°50	9°30	25°17	23°15	11°59	27°34	23°46	17°24	16°51	2°10	18°25	M27
T 28	4 29 36	6°13'51	25°24	17°26	20°40	9°57	25°31	23°11	12° 0	27°34	23°45	17°22	16°48	2°16	18°23	T 28
W29	4 33 33	7°14'35	7♈23	16°28	21°32	10°24	25°44	23° 6	12° 0	27°R34	23°44	17°D22	16°44	2°23	18°20	W29
T 30	4 37 29	8♈15'21	19♈13	15♈20	22♈24	10♉51	25♈57	23♈ 1	12♈ 1	27♈34	23°Y44	17°R22	16♉41	2°Y30	18°518	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	decl	lat	decl	lat
W 1	14s30	10s 0	1n49	22s 9	2s14	4s10	2s31	14n12	1n37	22s45	0n17	21n49	1s31	7s44	0s48	12n45	0n23	6s53	17s27	4n 0	4n39	1s12	15n16	6s53							
T 2	14 49	6 39	0 47	22 31	2 18	4 4	2 18	14 2	1 38	22 46	0 17	21 49	1 31	7 45	0 48	12 45	0 23	6 53	17 27	3 59	4 40	1 10	15 15	6 54							
F 3	15 8	3 3	0s16	22 52	2 23	4 0	2 5	13 51	1 39	22 47	0 17	21 48	1 31	7 45	0 48	12 45	0 23	6 54	17 27	3 59	4 42	1 8	15 14	6 54							
S 4	15 27	0n40	1 19	23 11	2 26	3 56	1 53	13 41	1 40	22 48	0 17	21 48	1 31	7 45	0 48	12 44	0 23	6 54	17 27	4 0	4 43	1 6	15 14	6 55							
S 5	15 45	4 23	2 18	23 30	2 30	3 53	1 41	13 31	1 41	22 49	0 17	21 48	1 31	7 46	0 48	12 44	0 23	6 54	17 27	4 1	4 44	1 4	15 13	6 55							
M 6	16 3	7 58	3 12	23 47	2 33	3 52	1 29	13 21	1 42	22 50	0 17	21 48	1 31	7 46	0 48	12 44	0 23	6 54	17 27	4 3	4 45	1 2	15 13	6 56							
T 7	16 21	11 16	3 58	24 2	2 36	3 51	1 18	13 11	1 43	22 51	0 17	21 48	1 31	7 46	0 48	12 44	0 23	6 55	17 27	4 7	4 47	1 1	15 12	6 57							
W 8	16 38	14 8	4 33	24 17	2 38	3 51	1 7	13 1	1 44	22 52	0 16	21 48	1 31	7 46	0 47	12 43	0 23	6 55	17 26	4 11	4 48	0 59	15 12	6 57							
T 9	16 55	16 23	4 56	24 30	2 40	3 52	0 56	12 51	1 45	22 53	0 16	21 47	1 31	7 46	0 47	12 43	0 23	6 55	17 26	4 15	4 49	0 57	15 11	6 58							
F 10	17 12	17 52	5 4	24 42	2 42	3 54	0 45	12 41	1 46	22 54	0 16	21 47	1 31	7 47	0 47	12 43	0 23	6 55	17 26	4 19	4 50	0 55	15 11	6 59							
S 11	17 29	18 28	4 57	24 52	2 43	3 57	0 35	12 31	1 47	22 54	0 16	21 47	1 31	7 47	0 47	12 43	0 23	6 55	17 26	4 23	4 52	0 53	15 10	6 59							
S 12	17 45	18 5	4 35	25 1	2 43	4 1	0 25	12 21	1 48	22 55	0 16	21 47	1 31	7 47	0 47	12 42	0 23	6 56	17 26	4 26	4 53	0 51	15 10	7 0							
M13	18 1	16 42	3 57	25 8	2 42	4 5	0 15	12 11	1 49	22 56	0 16	21 47	1 31	7 47	0 47	12 42	0 23	6 56	17 26	4 28	4 54	0 49	15 9	7 0							
T 14	18 17	14 22	3 5	25 14	2 41	4 10	0 6	12 1	1 50	22 57	0 16	21 47	1 31	7 47	0 47	12 42	0 23	6 56	17 26	4 29	4 55	0 48	15 9	7 1							
W15	18 32	11 11	2 2	25 18	2 39	4 16	0n 4	11 51	1 52	22 58	0 16	21 46	1 31	7 47	0 47	12 42	0 23	6 56	17 25	4 29	4 57	0 46	15 8	7 2							
T 16	18 47	7 19	0 50	25 21	2 37	4 23	0 12	11 42	1 53	22 59	0 15	21 46	1 31	7 47	0 47	12 42	0 23	6 56	17 25	4 29	4 58	0 44	15 8	7 2							
F 17	19 2	2 58	0n26	25 21	2 33	4 31	0 21	11 32	1 54	22 59	0 15	21 46	1 31	7 47	0 47	12 42	0 23	6 57	17 25	4 28	4 59	0 42	15 8	7 3							
S 18	19 16	1s38	1 41	25 21	2 28	4 39	0 29	11 22	1 55	23 0	0 15	21 46	1 31	7 47	0 47	12 42	0 24	6 57	17 25	4 29	5 0	0 40	15 7	7 3							
S 19	19 30	6 10	2 50	25 18	2 22	4 48	0 38	11 12	1 56	23 1	0 15	21 46	1 31	7 47	0 47	12 41	0 24	6 57	17 25	4 31	5 2	0 38	15 7	7 4							
M20	19 44	10 21	3 48	25 13	2 15	4 57	0 45	11 3	1 57	23 2	0 15	21 46	1 31	7 47	0 47	12 41	0 24	6 57	17 24	4 33	5 3	0 36	15 7	7 5							
T 21	19 57	13 52	4 31	25 7	2 7	5 7	0 53	10 53	1 58	23 2	0 15	21 45	1 31	7 47	0 47	12 41	0 24	6 57	17 24	4 37	5 4	0 35	15 6	7 5							
W22	20 10	16 30	4 56	24 58	1 58	5 18	1 0	10 43	1 59	23 3	0 15	21 45	1 31	7 47	0 47	12 41	0 24	6 57	17 24	4 41	5 5	0 33	15 6	7 6							
T 23	20 23	18 4	5 2	24 47	1 47	5 29	1 7	10 34	2 1	23 4	0 15	21 45	1 31	7 47	0 47	12 41	0 24	6 57	17 24	4 46	5 6	0 31	15 6	7 6							
F 24	20 35	18 32	4 50	24 35	1 34	5 41	1 14	10 24	2 2	23 4	0 15	21 45	1 31	7 47	0 47	12 41	0 24	6 57	17 23	4 50	5 8	0 29	15 5	7 7							
S 25	20 47	17 56	4 22	24 19	1 20	5 53	1 21	10 15	2 3	23 5	0 14	21 45	1 31	7 47	0 47	12 41	0 24	6 57	17 23	4 54	5 9	0 27	15 5	7 7							
S 26	20 58	16 24	3 41	24 2	1 4	6 6	1 27	10 6	2 4	23 6	0 14	21 44	1 31	7 47	0 47	12 41	0 24	6 57	17 23	4 57	5 10	0 25	15 5	7 8							
M27	21 9	14 7	2 51	23 41	0 47	6 19	1 33	9 56	2 5	23 6	0 14	21 44	1 31	7 47	0 47	12 41	0 24	6 58	17 23	4 58	5 11	0 23	15 5	7 8							
T 28	21 20	11 16	1 54	23 19	0 29	6 32	1 39	9 47	2 6	23 7	0 14	21 44	1 31	7 47	0 47	12 41	0 24	6 58	17 22	4 59	5 13	0 22	15 5	7 9							
W29	21 30	7 59	0 53	22 54	0 10	6 46	1 44	9 38	2 8	23 7	0 14	21 44	1 31	7 46	0 47	12 41	0 24	6 58	17 22	4 59	5 14	0 20	15 4	7 10							
T 30	21s40	4s25	0s10	22s27	0n10	7s 1	1n50	9n29	2n 9	23s 8	0n14	21n44	1s31	7s46	0s47	12n41	0n24	6s58	17s22	4n59	5n15	0s18	15n 4	7s10							

ASTRODIENST EPHEMERIS for the year 2090

geocentric

DECEMBER 2090

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4 41 26	9♌16'07	1♏1	14°R 6	23♏17	11♏17	26♌11	22°R56	12♏1	27°R34	23°R43	17°R21	16♏38	2♏36	18°R15	F 1
S 2	4 45 23	10°16'54	12°50	12♌46	24°10	11°43	26°24	22♏52	12° 2	27♏33	23♏42	17♏19	16°35	2°43	18♏12	S 2
S 3	4 49 19	11°17'42	24°46	11°24	25° 4	12°10	26°38	22°47	12° 2	27°33	23°41	17°14	16°32	2°49	18° 9	S 3
M 4	4 53 16	12°18'32	6♏54	10° 1	25°59	12°35	26°51	22°42	12° 3	27°33	23°41	17° 6	16°29	2°56	18° 6	M 4
T 5	4 57 12	13°19'22	19°15	8°42	26°55	13° 1	27° 5	22°37	12° 4	27°33	23°40	16°56	16°25	3° 3	18° 4	T 5
W 6	5 1 9	14°20'13	1♏51	7°28	27°51	13°26	27°18	22°32	12° 4	27°33	23°39	16°43	16°22	3° 9	18° 0	W 6
T 7	5 5 5	15°21'06	14°43	6°21	28°47	13°51	27°32	22°28	12° 5	27°33	23°39	16°29	16°19	3°16	17°57	T 7
F 8	5 9 2	16°21'59	27°50	5°24	29°45	14°16	27°45	22°23	12° 6	27°32	23°38	16°16	16°16	3°23	17°54	F 8
S 9	5 12 58	17°22'53	11♏11	4°38	0♏43	14°40	27°59	22°18	12° 7	27°32	23°37	16° 3	16°13	3°29	17°51	S 9
S 10	5 16 55	18°23'49	24°42	4° 3	1°41	15° 4	28°12	22°13	12° 8	27°32	23°37	15°54	16°10	3°36	17°48	S 10
M11	5 20 52	19°24'46	8♏22	3°39	2°40	15°28	28°26	22° 8	12° 9	27°31	23°36	15°47	16° 6	3°43	17°44	M11
T 12	5 24 48	20°25'43	22°10	3°26	3°39	15°52	28°40	22° 3	12°10	27°31	23°36	15°43	16° 3	3°49	17°41	T 12
W13	5 28 45	21°26'42	6♏3	3°D24	4°39	16°15	28°53	21°58	12°11	27°30	23°35	15°41	16° 0	3°56	17°37	W13
T 14	5 32 41	22°27'42	20° 3	3°32	5°39	16°38	29° 7	21°53	12°12	27°30	23°35	15°41	15°57	4° 3	17°34	T 14
F 15	5 36 38	23°28'43	4♏8	3°49	6°40	17° 0	29°21	21°48	12°14	27°29	23°34	15°41	15°54	4° 9	17°30	F 15
S 16	5 40 34	24°29'45	18°18	4°15	7°41	17°23	29°34	21°43	12°15	27°29	23°34	15°39	15°50	4°16	17°27	S 16
S 17	5 44 31	25°30'49	2♏31	4°48	8°43	17°44	29°48	21°38	12°16	27°28	23°33	15°35	15°47	4°23	17°23	S 17
M18	5 48 27	26°31'53	16°45	5°28	9°44	18° 6	0♏2	21°33	12°17	27°28	23°33	15°28	15°44	4°29	17°19	M18
T 19	5 52 24	27°32'58	0♏55	6°14	10°47	18°27	0°16	21°28	12°19	27°27	23°32	15°18	15°41	4°36	17°16	T 19
W20	5 56 21	28°34'04	14°58	7° 5	11°50	18°48	0°29	21°23	12°20	27°26	23°32	15° 6	15°38	4°43	17°12	W20
T 21	6 0 17	29°35'11	28°47	8° 1	12°53	19° 8	0°43	21°18	12°22	27°26	23°31	14°54	15°35	4°49	17° 8	T 21
F 22	6 4 14	0♏36'18	12♏20	9° 1	13°56	19°28	0°57	21°14	12°23	27°25	23°31	14°42	15°31	4°56	17° 4	F 22
S 23	6 8 10	1°37'25	25°32	10° 4	15° 0	19°48	1°11	21° 9	12°25	27°24	23°31	14°31	15°28	5° 3	17° 0	S 23
S 24	6 12 7	2°38'33	8♏24	11°11	16° 4	20° 7	1°24	21° 4	12°27	27°23	23°30	14°23	15°25	5° 9	16°56	S 24
M25	6 16 3	3°39'41	20°55	12°20	17° 8	20°26	1°38	20°59	12°28	27°23	23°30	14°18	15°22	5°16	16°53	M25
T 26	6 20 0	4°40'50	3♏9	13°32	18°13	20°45	1°52	20°54	12°30	27°22	23°30	14°15	15°19	5°23	16°49	T 26
W27	6 23 56	5°41'58	15° 9	14°46	19°18	21° 3	2° 6	20°50	12°32	27°21	23°30	14°D15	15°16	5°29	16°45	W27
T 28	6 27 53	6°43'07	27° 0	16° 2	20°23	21°20	2°19	20°45	12°34	27°20	23°29	14°15	15°12	5°36	16°41	T 28
F 29	6 31 50	7°44'15	8♏48	17°20	21°28	21°37	2°33	20°40	12°35	27°19	23°29	14°R15	15° 9	5°42	16°36	F 29
S 30	6 35 46	8°45'23	20°38	18°39	22°34	21°54	2°47	20°36	12°37	27°18	23°29	14°15	15° 6	5°49	16°32	S 30
S 31	6 39 43	9♏46'32	2♏36	20♌0	23♏40	22♏10	3♏0	20♏31	12♏39	27♏17	23♏29	14♏12	15♏3	5♏56	16♏28	S 31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	21s50	0s42	1s12	21s58	0n31	7s16	1n55	9n20	2n10	23s 8	0n14	21n43	1s31	7s46	0s47	12n41	0n24	6s58	17s22	4n59	5n16	0s16	15n 4	7s11			
S 2	21 59	3n 4	2 11	21 28	0 51	7 31	2 0	9 11	2 11	23 9	0 14	21 43	1 31	7 46	0 47	12 41	0 24	6 58	17 21	5 0	5 18	0 14	15 4	7 11			
S 3	22 7	6 44	3 4	20 58	1 11	7 46	2 4	9 2	2 13	23 9	0 14	21 43	1 31	7 45	0 46	12 41	0 24	6 58	17 21	5 2	5 19	0 12	15 4	7 11			
M 4	22 15	10 11	3 50	20 28	1 29	8 2	2 9	8 54	2 14	23 10	0 14	21 43	1 31	7 45	0 46	12 41	0 24	6 58	17 21	5 5	5 20	0 10	15 4	7 12			
T 5	22 23	13 15	4 26	19 59	1 47	8 18	2 13	8 45	2 15	23 10	0 13	21 43	1 31	7 45	0 46	12 41	0 24	6 58	17 20	5 9	5 21	0 9	15 4	7 12			
W 6	22 30	15 47	4 50	19 32	2 2	8 34	2 17	8 36	2 16	23 10	0 13	21 42	1 31	7 45	0 46	12 42	0 24	6 58	17 20	5 14	5 23	0 7	15 4	7 13			
T 7	22 37	17 35	5 0	19 8	2 15	8 50	2 21	8 28	2 18	23 11	0 13	21 42	1 31	7 44	0 46	12 42	0 24	6 58	17 20	5 20	5 24	0 5	15 4	7 13			
F 8	22 44	18 30	4 54	18 48	2 26	9 7	2 25	8 20	2 19	23 11	0 13	21 42	1 30	7 44	0 46	12 42	0 24	6 57	17 20	5 25	5 25	0 3	15 4	7 14			
S 9	22 50	18 26	4 32	18 31	2 34	9 24	2 28	8 11	2 20	23 11	0 13	21 42	1 30	7 43	0 46	12 42	0 24	6 57	17 19	5 30	5 26	0 1	15 4	7 14			
S 10	22 55	17 19	3 55	18 19	2 41	9 41	2 31	8 3	2 22	23 12	0 13	21 42	1 30	7 43	0 46	12 42	0 24	6 57	17 19	5 34	5 27	0n 1	15 4	7 15			
M11	23 0	15 12	3 4	18 10	2 45	9 58	2 34	7 55	2 23	23 12	0 13	21 41	1 30	7 43	0 46	12 42	0 24	6 57	17 19	5 36	5 29	0 3	15 4	7 15			
T 12	23 5	12 12	2 1	18 5	2 47	10 16	2 37	7 47	2 24	23 12	0 13	21 41	1 30	7 42	0 46	12 42	0 24	6 57	17 18	5 38	5 30	0 4	15 4	7 15			
W13	23 9	8 30	0 51	18 4	2 48	10 33	2 40	7 40	2 26	23 13	0 13	21 41	1 30	7 42	0 46	12 43	0 24	6 57	17 18	5 38	5 31	0 6	15 4	7 16			
T 14	23 13	4 18	0n23	18 7	2 47	10 51	2 42	7 32	2 27	23 13	0 13	21 41	1 30	7 41	0 46	12 43	0 24	6 57	17 18	5 38	5 32	0 8	15 4	7 16			
F 15	23 16	0s10	1 36	18 12	2 45	11 9	2 44	7 24	2 28	23 13	0 13	21 41	1 30	7 41	0 46	12 43	0 24	6 57	17 17	5 38	5 34	0 10	15 4	7 16			
S 16	23 19	4 39	2 43	18 20	2 42	11 26	2 46	7 17	2 30	23 13	0 12	21 40	1 30	7 40	0 46	12 43	0 24	6 57	17 17	5 39	5 35	0 12	15 4	7 17			
S 17	23 21	8 53	3 41	18 30	2 37	11 44	2 48	7 10	2 31	23 13	0 12	21 40	1 30	7 40	0 46	12 43	0 24	6 57	17 17	5 41	5 36	0 14	15 4	7 17			
M18	23 23	12 36	4 25	18 42	2 32	12 2	2 50	7 3	2 33	23 13	0 12	21 40	1 30	7 39	0 46	12 44	0 24	6 56	17 16	5 43	5 37	0 16	15 4	7 17			
T 19	23 24	15 34	4 52	18 56	2 26	12 20	2 52	6 56	2 34	23 13	0 12	21 40	1 29	7 39	0 46	12 44	0 24	6 56	17 16	5 47	5 39	0 17	15 4	7 18			
W20	23 25	17 35	5 1	19 11	2 20	12 38	2 53	6 49	2 35	23 13	0 12	21 40	1 29	7 38	0 46	12 44	0 24	6 56	17 16	5 52	5 40	0 19	15 5	7 18			
T 21	23 25	18 33	4 52	19 26	2 13	12 55	2 54	6 42	2 37	23 13	0 12	21 39	1 29	7 37	0 46	12 44	0 24	6 56	17 15	5 57	5 41	0 21	15 5	7 18			
F 22	23 25	18 25	4 27	19 43	2 6	13 13	2 55	6 35	2 38	23 13	0 12	21 39	1 29	7 37	0 46	12 45	0 24	6 56	17 15	6 1	5 42	0 23	15 5	7 19			
S 23	23 25	17 17	3 48	20 0	1 58	13 31	2 56	6 29	2 40	23 13	0 12	21 39	1 29	7 36	0 46	12 45	0 24	6 55	17 15	6 6	5 43	0 25	15 5	7 19			
S 24	23 24	15 17	2 58	20 17	1 51	13 49	2 57	6 23	2 41	23 13	0 12	21 39	1 29	7 35	0 46	12 45	0 24	6 55	17 14	6 9	5 45	0 27	15 5	7 19			
M25	23 22	12 36	2 1	20 34	1 43	14 6	2 58	6 17	2 43	23 13	0 12	21 39	1 29	7 35	0 46	12 45	0 24	6 55	17 14	6 11	5 46	0 29	15 6	7 19			
T 26	23 21	9 26	0 59	20 51	1 35	14 23	2 58	6 11	2 44	23 13	0 11	21 38	1 29	7 34	0 46	12 46	0 24	6 55	17 14	6 12	5 47	0 31	15 6	7 20			
W27	23 18	5 55	0s 5	21 7	1 27	14 41	2 58	6 5	2 46	23 13	0 11	21 38	1 28	7 33	0 46	12 46	0 24	6 55	17 13	6 12	5 48	0 32	15 6	7 20			
T 28	23 15	2 13	1 8	21 24	1 18	14 58	2 58	6 0	2 47	23 13	0 11	21 38	1 28	7 33	0 46	12 46	0 24	6 54	17 13	6 12	5 50	0 34	15 6	7 20			
F 29	23 12	1n32	2 7	21 40	1 10	15 15	2 58	5 54	2 49	23 13	0 11	21 38	1 28	7 32	0 46	12 47	0 24	6 54	17 13	6 12	5 51	0 36	15 7	7 20			
S 30	23 8	5 15	3 1	21 55	1 2	15 32	2 58	5 49	2 50	23 13	0 11	21 38	1 28	7 31	0 45	12 47	0 24	6 54	17 12	6 12	5 52	0 38	15 7	7 20			
S 31	23s 4	8n47	3s48	22s10	0n54	15s48	2n58	5n44	2n52	23s12	0n11	21n38	1s28	7s30	0s45	12n47	0n25	6s53	17s12	6n13	5n53	0n40	15n 7	7s20			