



Astrodienst Ephemeris Tables for the year 2010

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 2010
geocentric

JANUARY 2010

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	6 42 10	10 ³ 27'04	13 ⁵ 15	19°R 0	7 ³ 51	18°R49	26 ² 22	4 ² 30	23 ¹ 5	24 ² 35	3 ³ 19	21°R 5	21 ³ 38	10 ² 11	23 ² 7	F 1
S 2	6 46 7	11°28'12	28°19	17 ³ 54	9° 6	18 ² 39	26°34	4°32	23° 7	24°37	3°21	21°D 5	21°35	10°18	23°10	S 2
S 3	6 50 3	12°29'20	13 ² 21	16°41	10°22	18°29	26°46	4°33	23° 9	24°38	3°23	21 ³ 5	21°32	10°25	23°14	S 3
M 4	6 54 0	13°30'28	28°14	15°23	11°37	18°18	26°58	4°34	23°10	24°40	3°25	21° 6	21°29	10°31	23°17	M 4
T 5	6 57 56	14°31'36	12 ¹ 50	14° 3	12°53	18° 5	27°11	4°35	23°12	24°42	3°27	21° 7	21°25	10°38	23°21	T 5
W 6	7 1 53	15°32'45	27° 6	12°42	14° 8	17°53	27°23	4°36	23°14	24°44	3°29	21° 7	21°22	10°45	23°24	W 6
T 7	7 5 49	16°33'53	10 ² 59	11°23	15°24	17°39	27°36	4°37	23°15	24°46	3°31	21°R 7	21°19	10°51	23°28	T 7
F 8	7 9 46	17°35'02	24°29	10°10	16°39	17°24	27°48	4°37	23°17	24°48	3°34	21° 7	21°16	10°58	23°32	F 8
S 9	7 13 42	18°36'11	7 ¹ 38	9° 3	17°55	17° 9	28° 1	4°38	23°19	24°50	3°36	21° 7	21°13	11° 5	23°35	S 9
S 10	7 17 39	19°37'20	20°28	8° 5	19°10	16°53	28°14	4°38	23°21	24°52	3°38	21° 7	21°10	11°11	23°39	S 10
M 11	7 21 36	20°38'30	3 ² 2	7°15	20°26	16°37	28°27	4°39	23°23	24°54	3°40	21°D 7	21° 6	11°18	23°43	M 11
T 12	7 25 32	21°39'39	15°23	6°36	21°41	16°19	28°40	4°39	23°25	24°56	3°42	21° 7	21° 3	11°25	23°46	T 12
W 13	7 29 29	22°40'48	27°32	6° 6	22°57	16° 1	28°53	4°39	23°27	24°58	3°44	21° 7	21° 0	11°31	23°50	W 13
T 14	7 33 25	23°41'57	9 ² 33	5°46	24°12	15°42	29° 6	4°R39	23°29	25° 0	3°46	21° 7	20°57	11°38	23°54	T 14
F 15	7 37 22	24°43'05	21°28	5°35	25°28	15°23	29°19	4°39	23°31	25° 2	3°48	21°R 7	20°54	11°45	23°58	F 15
S 16	7 41 18	25°44'13	3 ² 19	5°D34	26°43	15° 3	29°32	4°39	23°33	25° 4	3°50	21° 7	20°50	11°51	24° 2	S 16
S 17	7 45 15	26°45'20	15° 7	5°40	27°59	14°43	29°45	4°39	23°35	25° 6	3°52	21° 7	20°47	11°58	24° 6	S 17
M 18	7 49 12	27°46'27	26°54	5°54	29°14	14°22	29°59	4°38	23°38	25° 8	3°54	21° 6	20°44	12° 4	24° 9	M 18
T 19	7 53 8	28°47'33	8 ¹ 45	6°16	0 ² 30	14° 0	0 ¹ 12	4°38	23°40	25°10	3°56	21° 5	20°41	12°11	24°13	T 19
W 20	7 57 5	29°48'39	20°40	6°43	1°45	13°38	0°26	4°37	23°42	25°12	3°58	21° 4	20°38	12°18	24°17	W 20
T 21	8 1 1	0 ² 49'43	2 ¹ 44	7°17	3° 0	13°16	0°39	4°36	23°44	25°14	4° 0	21° 2	20°35	12°24	24°21	T 21
F 22	8 4 58	1°50'47	15° 0	7°55	4°16	12°53	0°53	4°35	23°47	25°16	4° 2	21° 1	20°31	12°31	24°25	F 22
S 23	8 8 54	2°51'50	27°32	8°39	5°31	12°30	1° 6	4°34	23°49	25°18	4° 4	21°D 1	20°28	12°38	24°29	S 23
S 24	8 12 51	3°52'51	10 ² 8	9°27	6°47	12° 7	1°20	4°33	23°52	25°20	4° 6	21° 1	20°25	12°44	24°33	S 24
M 25	8 16 47	4°53'52	23°40	10°19	8° 2	11°43	1°34	4°32	23°54	25°23	4° 8	21° 2	20°22	12°51	24°37	M 25
T 26	8 20 44	5°54'52	7 ¹ 22	11°14	9°17	11°19	1°47	4°31	23°57	25°25	4°10	21° 3	20°19	12°58	24°42	T 26
W 27	8 24 41	6°55'51	21°32	12°12	10°33	10°56	2° 1	4°29	23°59	25°27	4°12	21° 4	20°16	13° 4	24°46	W 27
T 28	8 28 37	7°56'48	6 ² 7	13°13	11°48	10°32	2°15	4°28	24° 2	25°29	4°14	21° 5	20°12	13°11	24°50	T 28
F 29	8 32 34	8°57'45	21° 3	14°17	13° 3	10° 8	2°29	4°26	24° 5	25°31	4°16	21°R 5	20° 9	13°18	24°54	F 29
S 30	8 36 30	9°58'40	6 ² 14	15°24	14°19	9°44	2°43	4°25	24° 7	25°33	4°18	21° 5	20° 6	13°24	24°58	S 30
S 31	8 40 27	10 ² 59'35	21 ² 31	16 ³ 32	15 ² 34	9 ² 20	2 ¹ 57	4 ² 23	24 ¹ 10	25 ² 36	4 ² 20	21 ³ 3	20 ³ 3	13 ² 31	25 ² 2	S 31

Day	☉	☽		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	decl	decl	decl	lat	decl	decl	decl	lat	decl	lat
F 1	23s 2	23n30	0n43	20s28	1n38	23s39	0s26	18n45	3n45	13s37	0s56	0n19	2n17	3s26	0s45	13s43	0s25	18s18	5n 6	21s47	21s42	16s 7	8s10	5n58										
S 2	22 57	19 51	0s40	20 19	1 57	23 36	0 28	18 51	3 48	13 32	0 56	0 18	2 18	3 25	0 45	13 43	0 25	18 18	5 6	21 47	21 42	16 4	8 9	5 58										
S 3	22 51	14 53	2 1	20 10	2 15	23 33	0 31	18 56	3 50	13 28	0 56	0 18	2 18	3 24	0 45	13 42	0 25	18 18	5 6	21 47	21 43	16 1	8 8	5 58										
M 4	22 45	9 5	3 12	20 3	2 31	23 29	0 33	19 2	3 53	13 24	0 56	0 18	2 18	3 24	0 45	13 42	0 25	18 18	5 6	21 47	21 43	15 59	8 7	5 57										
T 5	22 39	2 53	4 10	19 58	2 45	23 24	0 35	19 8	3 55	13 20	0 56	0 18	2 18	3 23	0 45	13 41	0 25	18 18	5 6	21 47	21 44	15 56	8 6	5 57										
W 6	22 32	3s17	4 51	19 54	2 57	23 18	0 37	19 14	3 57	13 15	0 56	0 18	2 19	3 22	0 45	13 40	0 25	18 18	5 6	21 47	21 44	15 54	8 6	5 57										
T 7	22 25	9 8	5 13	19 51	3 6	23 12	0 39	19 21	4 0	13 11	0 56	0 18	2 19	3 22	0 45	13 40	0 25	18 18	5 6	21 47	21 45	15 51	8 5	5 57										
F 8	22 17	14 24	5 17	19 50	3 13	23 5	0 42	19 27	4 2	13 6	0 56	0 18	2 19	3 21	0 45	13 39	0 25	18 18	5 5	21 47	21 45	15 48	8 4	5 56										
S 9	22 9	18 51	5 5	19 51	3 18	22 58	0 44	19 34	4 4	13 2	0 56	0 18	2 20	3 20	0 44	13 38	0 25	18 18	5 5	21 47	21 46	15 46	8 3	5 56										
S 10	22 0	22 19	4 37	19 52	3 20	22 49	0 46	19 41	4 6	12 58	0 56	0 18	2 20	3 19	0 44	13 38	0 25	18 18	5 5	21 47	21 46	15 43	8 2	5 56										
M11	21 51	24 38	3 57	19 55	3 20	22 40	0 48	19 48	4 8	12 53	0 56	0 18	2 20	3 18	0 44	13 37	0 25	18 18	5 5	21 47	21 47	15 41	8 1	5 56										
T 12	21 42	25 43	3 6	19 59	3 17	22 31	0 50	19 55	4 10	12 48	0 56	0 18	2 20	3 18	0 44	13 36	0 25	18 18	5 5	21 47	21 47	15 38	8 0	5 55										
W13	21 32	25 32	2 7	20 4	3 14	22 20	0 52	20 3	4 12	12 44	0 56	0 18	2 21	3 17	0 44	13 36	0 25	18 18	5 5	21 47	21 48	15 35	7 59	5 55										
T 14	21 22	24 9	1 4	20 10	3 8	22 9	0 54	20 10	4 14	12 39	0 56	0 19	2 21	3 16	0 44	13 35	0 25	18 18	5 5	21 47	21 48	15 33	7 58	5 55										
F 15	21 11	21 42	0n 2	20 17	3 2	21 57	0 55	20 18	4 16	12 35	0 56	0 19	2 21	3 15	0 44	13 34	0 25	18 18	5 5	21 47	21 49	15 30	7 57	5 55										
S 16	21 0	18 19	1 7	20 25	2 55	21 45	0 57	20 25	4 18	12 30	0 56	0 19	2 22	3 14	0 44	13 34	0 25	18 18	5 5	21 47	21 49	15 27	7 56	5 55										
S 17	20 48	14 14	2 9	20 33	2 46	21 32	0 59	20 33	4 19	12 25	0 55	0 20	2 22	3 13	0 44	13 33	0 25	18 18	5 5	21 47	21 50	15 25	7 55	5 54										
M18	20 36	9 38	3 6	20 41	2 37	21 18	1 1	20 41	4 21	12 21	0 55	0 20	2 22	3 12	0 44	13 32	0 25	18 18	5 5	21 47	21 50	15 22	7 54	5 54										
T 19	20 24	4 40	3 55	20 49	2 28	21 4	1 2	20 48	4 22	12 16	0 55	0 20	2 22	3 11	0 44	13 32	0 25	18 18	5 5	21 47	21 51	15 20	7 53	5 54										
W20	20 11	0n30	4 34	20 58	2 18	20 49	1 4	20 56	4 24	12 11	0 55	0 21	2 23	3 11	0 44	13 31	0 25	18 18	5 5	21 47	21 51	15 17	7 51	5 54										
T 21	19 58	5 41	5 1	21 6	2 8	20 33	1 6	21 4	4 25	12 6	0 55	0 21	2 23	3 10	0 44	13 30	0 25	18 18	5 5	21 48	21 52	15 14	7 50	5 54										
F 22	19 45	10 45	5 15	21 14	1 58	20 17	1 7	21 12	4 26	12 2	0 55	0 22	2 23	3 9	0 44	13 30	0 25	18 18	5 5	21 48	21 52	15 12	7 49	5 53										
S 23	19 31	15 29	5 15	21 21	1 48	20 0	1 9	21 19	4 27	11 57	0 55	0 23	2 24	3 8	0 44	13 29	0 25	18 18	5 5	21 48	21 53	15 9	7 48	5 53										
S 24	19 17	19 40	4 59	21 29	1 38	19 43	1 10	21 27	4 28	11 52	0 55	0 23	2 24	3 7	0 44	13 28	0 25	18 18	5 5	21 48	21 53	15 6	7 47	5 53										
M25	19 2	23 0	4 27	21 35	1 28	19 25	1 12	21 34	4 29	11 47	0 55	0 24	2 24	3 6	0 44	13 27	0 25	18 18	5 5	21 48	21 54	15 4	7 46	5 53										
T 26	18 48	25 9	3 39	21 41	1 17	19 6	1 13	21 42	4 30	11 42	0 55	0 25	2 24	3 5	0 44	13 27	0 25	18 18	5 5	21 48	21 54	15 1	7 45	5 53										
W27	18 32	25 46	2 37	21 46	1 7	18 47	1 14	21 49	4 30	11 37	0 55	0 26	2 25	3 4	0 44	13 26	0 25	18 18	5 5	21 47	21 55	14 58	7 43	5 53										
T 28	18 17	24 40	1 22	21 50	0 57	18 27	1 15	21 56	4 31	11 32	0 55	0 27	2 25	3 2	0 44	13 25	0 25	18 18	5 5	21 47	21 55	14 56	7 42	5 52										
F 29	18 1	21 48	0 0	21 53	0 48	18 7	1 17	22 3	4 32	11 27	0 55	0 27	2 25	3 1	0 44	13 25	0 25	18 18	5 5	21 47	21 56	14 53	7 41	5 52										
S 30	17 45	17 22	1s23	21 55	0 38	17 47	1 18	22 10	4 32	11 22	0 55	0 28	2 25	3 0	0 44	13 24	0 25	18 18	5 5	21 47	21 56	14 50	7 40	5 52										
S 31	17s28	11n48	2s40	21s57	0n28	17s25	1s19	22n17	4n32	11s17	0s55	0n29	2n26	2s59	0s44	13s23	0s25	18s17	5n 5	21s47	21s57	14s48	7s39	5n52										

ASTRODIENST EPHEMERIS for the year 2010
geocentric

FEBRUARY 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	8 44 23	12♈ 0'28	6♏42	17♈43	16♈49	8°R56	3♏11	4°R21	24♏13	25♈38	4♏21	21°R 1	20♏ 0	13♈38	25♈ 6	M 1
T 2	8 48 20	13° 1'21	21°38	18°55	18° 5	8♏32	3°25	4♏19	24°15	25°40	4°23	20♏58	19°56	13°44	25°10	T 2
W 3	8 52 16	14° 2'12	6♏12	20° 9	19°20	8° 8	3°39	4°17	24°18	25°42	4°25	20°55	19°53	13°51	25°15	W 3
T 4	8 56 13	15° 3'03	20°20	21°25	20°35	7°45	3°53	4°15	24°21	25°45	4°27	20°52	19°50	13°58	25°19	T 4
F 5	9 0 10	16° 3'53	3♏59	22°42	21°51	7°22	4° 7	4°13	24°24	25°47	4°29	20°50	19°47	14° 4	25°23	F 5
S 6	9 4 6	17° 4'42	17°10	24° 1	23° 6	6°59	4°21	4°10	24°27	25°49	4°30	20°D50	19°44	14°11	25°27	S 6
S 7	9 8 3	18° 5'30	29°58	25°21	24°21	6°37	4°35	4° 8	24°30	25°51	4°32	20°50	19°41	14°18	25°31	S 7
M 8	9 11 59	19° 6'18	12♏26	26°42	25°36	6°14	4°49	4° 5	24°32	25°54	4°34	20°52	19°37	14°24	25°36	M 8
T 9	9 15 56	20° 7'04	24°37	28° 5	26°51	5°53	5° 4	4° 2	24°35	25°56	4°35	20°54	19°34	14°31	25°40	T 9
W10	9 19 52	21° 7'50	6♏37	29°28	28° 7	5°32	5°18	4° 0	24°38	25°58	4°37	20°55	19°31	14°38	25°44	W10
T 11	9 23 49	22° 8'34	18°29	0♏53	29°22	5°11	5°32	3°57	24°41	26° 1	4°39	20°R56	19°28	14°44	25°48	T 11
F 12	9 27 45	23° 9'17	0♏18	2°18	0♏37	4°51	5°47	3°54	24°44	26° 3	4°40	20°56	19°25	14°51	25°53	F 12
S 13	9 31 42	24° 9'59	12° 5	3°45	1°52	4°31	6° 1	3°51	24°48	26° 5	4°42	20°53	19°22	14°58	25°57	S 13
S 14	9 35 39	25°10'39	23°53	5°13	3° 7	4°12	6°15	3°48	24°51	26° 7	4°43	20°50	19°18	15° 4	26° 1	S 14
M15	9 39 35	26°11'18	5♏45	6°41	4°23	3°54	6°30	3°45	24°54	26°10	4°45	20°44	19°15	15°11	26° 5	M15
T 16	9 43 32	27°11'56	17°42	8°11	5°38	3°36	6°44	3°41	24°57	26°12	4°46	20°37	19°12	15°18	26°10	T 16
W17	9 47 28	28°12'31	29°45	9°42	6°53	3°19	6°58	3°38	25° 0	26°14	4°48	20°30	19° 9	15°24	26°14	W17
T 18	9 51 25	29°13'06	11°V56	11°13	8° 8	3° 3	7°13	3°35	25° 3	26°16	4°49	20°23	19° 6	15°31	26°18	T 18
F 19	9 55 21	0♏13'38	24°18	12°46	9°23	2°47	7°27	3°31	25° 6	26°19	4°51	20°17	19° 2	15°38	26°22	F 19
S 20	9 59 18	1°14'09	6♏53	14°19	10°38	2°32	7°42	3°28	25° 9	26°21	4°52	20°12	18°59	15°44	26°26	S 20
S 21	10 3 14	2°14'38	19°44	15°53	11°53	2°18	7°56	3°24	25°13	26°23	4°53	20°10	18°56	15°51	26°31	S 21
M22	10 7 11	3°15'05	2♏53	17°28	13° 8	2° 5	8°11	3°20	25°16	26°26	4°55	20°D 9	18°53	15°58	26°35	M22
T 23	10 11 8	4°15'31	16°24	19° 5	14°23	1°52	8°25	3°16	25°19	26°28	4°56	20° 9	18°50	16° 4	26°39	T 23
W24	10 15 4	5°15'54	0♏18	20°42	15°38	1°41	8°40	3°13	25°22	26°30	4°57	20°11	18°47	16°11	26°43	W24
T 25	10 19 1	6°16'15	14°37	22°20	16°53	1°30	8°54	3° 9	25°26	26°32	4°59	20°R12	18°43	16°17	26°48	T 25
F 26	10 22 57	7°16'35	29°18	23°59	18° 8	1°19	9° 9	3° 5	25°29	26°35	5° 0	20°11	18°40	16°24	26°52	F 26
S 27	10 26 54	8°16'52	14♏17	25°39	19°23	1°10	9°23	3° 1	25°32	26°37	5° 1	20° 9	18°37	16°31	26°56	S 27
S 28	10 30 50	9♏17'08	29♏27	27♏20	20♏38	1♏ 1	9♏38	2♏57	25♏36	26♏39	5♏ 2	20♏ 5	18♏34	16♏37	27♏ 0	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	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
M 1	17s11	5n33	3s46	21s57	0n19	17s 4	1s20	22n24	4n32	11s12	0s55	0n30	2n26	2s58	0s44	13s22	0s25	18s17	5n 5	21s48	21s57	14s45	7s37	5n52
T 2	16 54	0s54	4 35	21 56	0 10	16 42	1 21	22 30	4 32	11 7	0 55	0 31	2 26	2 57	0 44	13 22	0 25	18 17	5 5	21 48	21 57	14 42	7 36	5 52
W 3	16 37	7 8	5 5	21 54	0 1	16 19	1 22	22 36	4 32	11 2	0 55	0 32	2 26	2 56	0 44	13 21	0 25	18 17	5 5	21 49	21 58	14 40	7 35	5 52
T 4	16 19	12 48	5 15	21 51	0s 7	15 56	1 23	22 42	4 31	10 57	0 55	0 33	2 27	2 55	0 44	13 20	0 25	18 17	5 5	21 49	21 58	14 37	7 33	5 52
F 5	16 1	17 39	5 7	21 47	0 16	15 32	1 23	22 48	4 31	10 52	0 55	0 35	2 27	2 54	0 44	13 19	0 25	18 17	5 5	21 49	21 59	14 34	7 32	5 51
S 6	15 43	21 28	4 43	21 42	0 24	15 8	1 24	22 53	4 31	10 46	0 55	0 36	2 27	2 52	0 44	13 19	0 25	18 17	5 5	21 50	21 59	14 32	7 31	5 51
S 7	15 24	24 8	4 5	21 35	0 32	14 44	1 25	22 58	4 30	10 41	0 55	0 37	2 27	2 51	0 44	13 18	0 25	18 17	5 5	21 49	22 0	14 29	7 30	5 51
M 8	15 6	25 31	3 16	21 28	0 40	14 19	1 25	23 3	4 29	10 36	0 55	0 38	2 28	2 50	0 44	13 17	0 25	18 17	5 5	21 49	22 0	14 26	7 28	5 51
T 9	14 47	25 39	2 20	21 19	0 47	13 54	1 26	23 8	4 29	10 31	0 55	0 39	2 28	2 49	0 44	13 16	0 25	18 17	5 5	21 49	22 1	14 24	7 27	5 51
W10	14 27	24 34	1 18	21 9	0 54	13 29	1 26	23 13	4 28	10 26	0 55	0 41	2 28	2 48	0 44	13 15	0 25	18 17	5 5	21 49	22 1	14 21	7 26	5 51
T 11	14 8	22 23	0 13	20 57	1 1	13 3	1 27	23 17	4 27	10 20	0 55	0 42	2 28	2 47	0 44	13 15	0 25	18 17	5 5	21 49	22 2	14 18	7 24	5 51
F 12	13 48	19 15	0n51	20 44	1 7	12 37	1 27	23 21	4 26	10 15	0 55	0 43	2 29	2 45	0 43	13 14	0 25	18 17	5 5	21 49	22 2	14 16	7 23	5 51
S 13	13 28	15 21	1 53	20 30	1 14	12 10	1 27	23 25	4 25	10 10	0 55	0 45	2 29	2 44	0 43	13 13	0 25	18 17	5 5	21 49	22 3	14 13	7 22	5 51
S 14	13 8	10 53	2 50	20 15	1 20	11 43	1 27	23 28	4 24	10 5	0 55	0 46	2 29	2 43	0 43	13 12	0 25	18 17	5 5	21 50	22 3	14 10	7 20	5 51
M15	12 47	5 59	3 40	19 59	1 25	11 16	1 28	23 31	4 22	9 59	0 56	0 48	2 29	2 42	0 43	13 12	0 25	18 16	5 5	21 50	22 3	14 8	7 19	5 51
T 16	12 27	0 51	4 21	19 41	1 31	10 48	1 28	23 34	4 21	9 54	0 56	0 49	2 30	2 40	0 43	13 11	0 25	18 16	5 5	21 51	22 4	14 5	7 18	5 51
W17	12 6	4n20	4 50	19 22	1 36	10 21	1 28	23 37	4 19	9 49	0 56	0 51	2 30	2 39	0 43	13 10	0 25	18 16	5 5	21 52	22 4	14 2	7 16	5 51
T 18	11 45	9 25	5 7	19 1	1 40	9 52	1 28	23 39	4 18	9 43	0 56	0 52	2 30	2 38	0 43	13 9	0 25	18 16	5 5	21 54	22 5	13 59	7 15	5 51
F 19	11 24	14 13	5 9	18 39	1 45	9 24	1 27	23 42	4 16	9 38	0 56	0 54	2 30	2 37	0 43	13 9	0 25	18 16	5 5	21 54	22 5	13 57	7 13	5 51
S 20	11 2	18 29	4 57	18 16	1 49	8 56	1 27	23 43	4 15	9 33	0 56	0 55	2 30	2 35	0 43	13 8	0 25	18 16	5 5	21 55	22 6	13 54	7 12	5 51
S 21	10 41	22 0	4 30	17 52	1 53	8 27	1 27	23 45	4 13	9 27	0 56	0 57	2 31	2 34	0 43	13 7	0 25	18 16	5 5	21 56	22 6	13 51	7 11	5 51
M22	10 19	24 28	3 48	17 26	1 56	7 58	1 27	23 47	4 11	9 22	0 56	0 59	2 31	2 33	0 43	13 6	0 25	18 16	5 5	21 56	22 7	13 49	7 9	5 51
T 23	9 57	25 36	2 53	16 59	1 59	7 29	1 26	23 48	4 10	9 16	0 56	1 0	2 31	2 31	0 43	13 6	0 25	18 16	5 5	21 56	22 7	13 46	7 8	5 51
W24	9 35	25 12	1 46	16 31	2 2	6 59	1 26	23 49	4 8	9 11	0 56	1 2	2 31	2 30	0 43	13 5	0 25	18 16	5 5	21 55	22 7	13 43	7 6	5 51
T 25	9 13	23 8	0 30	16 1	2 4	6 29	1 25	23 49	4 6	9 6	0 56	1 4	2 31	2 29	0 43	13 4	0 25	18 16	5 5	21 55	22 8	13 41	7 5	5 51
F 26	8 50	19 30	0s49	15 30	2 6	6 0	1 25	23 50	4 4	9 0	0 56	1 6	2 31	2 27	0 43	13 3	0 25	18 15	5 5	21 55	22 8	13 38	7 4	5 51
S 27	8 28	14 32	2 6	14 58	2 7	5 30	1 24	23 50	4 2	8 55	0 56	1 7	2 32	2 26	0 43	13 3	0 25	18 15	5 5	21 56	22 9	13 35	7 2	5 51
S 28	8s 5	8n37	3s16	14s24	2s 8	5s 0	1s24	23n50	4n 0	8s49	0s56	1n 9	2n32	2s25	0s43	13s 2	0s25	18s15	5n 5	21s56	22s 9	13s32	7s 1	5n51

Julian Day Number = 2455228.5, Delta T = 66.09 sec

Ecliptic obliquity = 23°26'20, Nutation = 0°00'18, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°52'52, Lahiri = 23°59'53

ASTRODIENST EPHEMERIS for the year 2010

geocentric

MARCH 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	10 34 47	10°17'22	14°38'38	29°22' 2	21°52'52	0°R54	9°H52	2°R53	25°H39	26°41	5°Z 4	19°R58	18°Z31	16°44	27°4 4	M 1
T 2	10 38 43	11°17'34	29°41' 0	0°H45	23° 7	0°L46	10° 7	2°L48	25°42	26°44	5° 5	19°Z50	18°28	16°51	27° 8	T 2
W 3	10 42 40	12°17'44	14°42'5	2°30	24°22	0°40	10°21	2°44	25°46	26°46	5° 6	19°42	18°24	16°57	27°12	W 3
T 4	10 46 36	13°17'53	28°43	4°15	25°37	0°35	10°36	2°40	25°49	26°48	5° 7	19°34	18°21	17° 4	27°17	T 4
F 5	10 50 33	14°18'00	12°33	6° 1	26°51	0°30	10°50	2°36	25°52	26°50	5° 8	19°28	18°18	17°11	27°21	F 5
S 6	10 54 30	15°18'06	25°53	7°48	28° 6	0°26	11° 5	2°31	25°56	26°52	5° 9	19°24	18°15	17°17	27°25	S 6
S 7	10 58 26	16°18'10	8°45	9°37	29°21	0°23	11°19	2°27	25°59	26°55	5°10	19°22	18°12	17°24	27°29	S 7
M 8	11 2 23	17°18'12	21°14	11°26	0°Y36	0°20	11°33	2°22	26° 3	26°57	5°11	19°D21	18° 8	17°31	27°33	M 8
T 9	11 6 19	18°18'13	3°Z5	13°17	1°50	0°19	11°48	2°18	26° 6	26°59	5°12	19°22	18° 5	17°37	27°37	T 9
W10	11 10 16	19°18'13	15°22	15° 9	3° 5	0°18	12° 2	2°13	26° 9	27° 1	5°13	19°R23	18° 2	17°44	27°41	W10
T 11	11 14 12	20°18'10	27°12	17° 2	4°20	0°D18	12°17	2° 9	26°13	27° 3	5°14	19°23	17°59	17°51	27°45	T 11
F 12	11 18 9	21°18'06	8°58	18°56	5°34	0°18	12°31	2° 4	26°16	27° 5	5°14	19°20	17°56	17°57	27°49	F 12
S 13	11 22 6	22°18'00	20°46	20°51	6°49	0°20	12°46	2° 0	26°20	27° 7	5°15	19°16	17°53	18° 4	27°53	S 13
S 14	11 26 2	23°17'53	2°H37	22°46	8° 3	0°22	13° 0	1°55	26°23	27°10	5°16	19° 8	17°49	18°11	27°57	S 14
M15	11 29 59	24°17'43	14°35	24°43	9°18	0°24	13°14	1°50	26°26	27°12	5°17	18°59	17°46	18°17	28° 1	M15
T 16	11 33 55	25°17'32	26°41	26°41	10°32	0°28	13°29	1°46	26°30	27°14	5°17	18°47	17°43	18°24	28° 4	T 16
W17	11 37 52	26°17'18	8°Y56	28°40	11°47	0°32	13°43	1°41	26°33	27°16	5°18	18°34	17°40	18°31	28° 8	W17
T 18	11 41 48	27°17'03	21°22	0°Y39	13° 1	0°37	13°57	1°36	26°37	27°18	5°19	18°21	17°37	18°37	28°12	T 18
F 19	11 45 45	28°16'45	3°Z58	2°39	14°16	0°42	14°12	1°31	26°40	27°20	5°19	18°10	17°33	18°44	28°16	F 19
S 20	11 49 41	29°16'25	16°45	4°39	15°30	0°48	14°26	1°27	26°44	27°22	5°20	18° 1	17°30	18°51	28°20	S 20
S 21	11 53 38	0°Y16'03	29°45	6°39	16°44	0°55	14°40	1°22	26°47	27°24	5°21	17°55	17°27	18°57	28°23	S 21
M22	11 57 34	1°15'39	12°H58	8°39	17°59	1° 2	14°54	1°17	26°50	27°26	5°21	17°51	17°24	19° 4	28°27	M22
T 23	12 1 31	2°15'13	26°26	10°39	19°13	1°10	15° 9	1°13	26°54	27°28	5°22	17°50	17°21	19°11	28°31	T 23
W24	12 5 28	3°14'44	10°Z12	12°39	20°27	1°19	15°23	1° 8	26°57	27°30	5°22	17°50	17°18	19°17	28°35	W24
T 25	12 9 24	4°14'13	24°16	14°38	21°41	1°28	15°37	1° 3	27° 1	27°32	5°23	17°50	17°14	19°24	28°38	T 25
F 26	12 13 21	5°13'40	8°Z38	16°35	22°55	1°38	15°51	0°58	27° 4	27°34	5°23	17°49	17°11	19°31	28°42	F 26
S 27	12 17 17	6°13'04	23°15	18°31	24°10	1°48	16° 5	0°54	27° 8	27°35	5°23	17°45	17° 8	19°37	28°45	S 27
S 28	12 21 14	7°12'26	8°H 5	20°24	25°24	1°59	16°19	0°49	27°11	27°37	5°24	17°39	17° 5	19°44	28°49	S 28
M29	12 25 10	8°11'46	22°58	22°16	26°38	2°11	16°33	0°44	27°14	27°39	5°24	17°30	17° 2	19°51	28°52	M29
T 30	12 29 7	9°11'03	7°Z58	24° 4	27°52	2°23	16°47	0°40	27°18	27°41	5°24	17°19	16°59	19°57	28°56	T 30
W31	12 33 3	10°Y10'19	22°Z25	25°Y49	29°Y 6	2°L35	17°H 1	0°Z35	27°H21	27°43	5°Z24	17°Z 7	16°Z55	20°4 4	28°59	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	7s43	2n11	4s11	13s49	2s 9	4s29	1s23	23n50	3n58	8s44	0s56	1n11	2n32	2s23	0s43	13s 1
T 2	7 20	4s17	4 48	13 13	2 9	3 59	1 22	23 49	3 56	8 39	0 56	1 13	2 32	2 22	0 43	13 0
W 3	6 57	10 22	5 5	12 35	2 9	3 29	1 21	23 49	3 54	8 33	0 56	1 14	2 32	2 21	0 43	13 0
T 4	6 34	15 44	5 3	11 57	2 8	2 58	1 20	23 48	3 52	8 28	0 56	1 16	2 32	2 19	0 43	12 59
F 5	6 11	20 5	4 42	11 16	2 7	2 27	1 19	23 47	3 50	8 22	0 56	1 18	2 33	2 18	0 43	12 58
S 6	5 48	23 13	4 7	10 35	2 6	1 57	1 18	23 46	3 48	8 17	0 56	1 20	2 33	2 17	0 43	12 57
S 7	5 24	25 3	3 20	9 52	2 4	1 26	1 17	23 45	3 46	8 11	0 56	1 22	2 33	2 15	0 43	12 57
M 8	5 1	25 34	2 25	9 8	2 1	0 55	1 16	23 43	3 44	8 6	0 56	1 24	2 33	2 14	0 43	12 56
T 9	4 38	24 48	1 25	8 23	1 58	0 24	1 14	23 41	3 42	8 0	0 57	1 26	2 33	2 13	0 43	12 55
W10	4 14	22 55	0 21	7 37	1 55	0n 7	1 13	23 39	3 39	7 55	0 57	1 28	2 33	2 11	0 43	12 54
T 11	3 51	20 2	0n42	6 49	1 50	0 37	1 12	23 37	3 37	7 50	0 57	1 29	2 33	2 10	0 43	12 54
F 12	3 27	16 22	1 43	6 0	1 46	1 8	1 10	23 35	3 35	7 44	0 57	1 31	2 33	2 9	0 43	12 53
S 13	3 3	12 3	2 39	5 10	1 41	1 39	1 9	23 33	3 33	7 39	0 57	1 33	2 33	2 7	0 43	12 52
S 14	2 40	7 17	3 29	4 19	1 35	2 10	1 7	23 30	3 31	7 33	0 57	1 35	2 34	2 6	0 43	12 52
M15	2 16	2 13	4 10	3 27	1 29	2 41	1 6	23 28	3 29	7 28	0 57	1 37	2 34	2 4	0 43	12 51
T 16	1 52	2n58	4 40	2 34	1 22	3 12	1 4	23 25	3 27	7 22	0 57	1 39	2 34	2 3	0 43	12 50
W17	1 29	8 6	4 58	1 41	1 15	3 42	1 2	23 22	3 25	7 17	0 57	1 41	2 34	2 2	0 43	12 49
T 18	1 5	12 59	5 2	0 46	1 7	4 13	1 0	23 19	3 22	7 11	0 57	1 43	2 34	2 0	0 43	12 49
F 19	0 41	17 24	4 51	0n 9	0 58	4 43	0 59	23 16	3 20	7 6	0 57	1 45	2 34	1 59	0 43	12 48
S 20	0 17	21 5	4 25	1 5	0 50	5 14	0 57	23 12	3 18	7 1	0 57	1 47	2 34	1 58	0 43	12 47
S 21	0n 6	23 46	3 46	2 2	0 40	5 44	0 55	23 9	3 16	6 55	0 57	1 49	2 34	1 56	0 43	12 47
M22	0 30	25 13	2 54	2 58	0 30	6 14	0 53	23 5	3 14	6 50	0 58	1 51	2 34	1 55	0 43	12 46
T 23	0 54	25 14	1 51	3 55	0 20	6 44	0 51	23 1	3 12	6 44	0 58	1 53	2 34	1 54	0 43	12 45
W24	1 17	23 43	0 40	4 52	0 9	7 14	0 49	22 57	3 10	6 39	0 58	1 54	2 34	1 52	0 43	12 45
T 25	1 41	20 42	0s34	5 48	0n 2	7 44	0 47	22 53	3 8	6 34	0 58	1 56	2 34	1 51	0 43	12 44
F 26	2 5	16 22	1 48	6 44	0 14	8 13	0 45	22 49	3 6	6 28	0 58	1 58	2 34	1 49	0 43	12 44
S 27	2 28	11 0	2 56	7 39	0 25	8 43	0 42	22 45	3 4	6 23	0 58	2 0	2 34	1 48	0 43	12 43
S 28	2 52	4 57	3 53	8 33	0 37	9 12	0 40	22 40	3 2	6 17	0 58	2 2	2 34	1 47	0 43	12 42
M29	3 15	1s24	4 34	9 26	0 49	9 41	0 38	22 36	3 0	6 12	0 58	2 4	2 34	1 45	0 43	12 42
T 30	3 38	7 38	4 57	10 17	1 1	10 10	0 36	22 31	2 58	6 7	0 58	2 6	2 34	1 44	0 43	12 41
W31	4n 2	13s21	4s59	11n 7	1n13	10n38	0s33	22n26	2n56	6s 1	0s58	2n 8	2n34	1s43	0s43	12s40

Julian Day Number = 2455256.5, Delta T = 66.11 sec
 Ecliptic obliquity = 23°26'20", Nutation = 0°00'17", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°52'56", Lahiri = 23°59'57"

ASTRODIENST EPHEMERIS for the year 2010

geocentric

APRIL 2010

00:00 UT

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

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	4n25	18s12	4s43	11n54	1n25	11n 6	0s31	22n21	2n54	5s56	0s59	2n 9	2n34	1s41	0s43	T 1
F 2	4 48	21 54	4 11	12 40	1 36	11 34	0 28	22 16	2 52	5 51	0 59	2 11	2 34	1 40	0 43	F 2
S 3	5 11	24 17	3 25	13 23	1 47	12 2	0 26	22 11	2 50	5 46	0 59	2 13	2 34	1 39	0 43	S 3
S 4	5 34	25 17	2 30	14 4	1 58	12 29	0 24	22 6	2 49	5 40	0 59	2 15	2 34	1 37	0 43	S 4
M 5	5 57	24 56	1 29	14 43	2 8	12 57	0 21	22 1	2 47	5 35	0 59	2 16	2 34	1 36	0 43	M 5
T 6	6 20	23 21	0 26	15 18	2 18	13 23	0 18	21 55	2 45	5 30	0 59	2 18	2 34	1 35	0 43	T 6
W 7	6 42	20 45	0n38	15 51	2 27	13 50	0 16	21 50	2 43	5 25	0 59	2 20	2 34	1 34	0 43	W 7
T 8	7 5	17 18	1 39	16 21	2 35	14 16	0 13	21 44	2 41	5 19	0 59	2 22	2 34	1 32	0 43	T 8
F 9	7 27	13 11	2 35	16 48	2 42	14 42	0 11	21 38	2 39	5 14	0 59	2 23	2 34	1 31	0 43	F 9
S 10	7 50	8 35	3 25	17 11	2 48	15 7	0 8	21 32	2 38	5 9	1 0	2 25	2 34	1 30	0 43	S 10
S 11	8 12	3 38	4 6	17 32	2 53	15 32	0 5	21 26	2 36	5 4	1 0	2 27	2 34	1 28	0 43	S 11
M 12	8 34	1n30	4 37	17 49	2 57	15 57	0 3	21 20	2 34	4 59	1 0	2 28	2 34	1 27	0 43	M 12
T 13	8 56	6 39	4 55	18 3	3 0	16 21	0 0	21 14	2 32	4 54	1 0	2 30	2 34	1 26	0 43	T 13
W 14	9 17	11 38	5 0	18 14	3 2	16 45	0n 3	21 7	2 31	4 48	1 0	2 31	2 34	1 25	0 43	W 14
T 15	9 39	16 12	4 50	18 22	3 3	17 9	0 5	21 1	2 29	4 43	1 0	2 33	2 33	1 23	0 43	T 15
F 16	10 0	20 6	4 25	18 27	3 2	17 32	0 8	20 54	2 27	4 38	1 0	2 34	2 33	1 22	0 43	F 16
S 17	10 22	23 3	3 46	18 28	3 0	17 54	0 11	20 48	2 26	4 33	1 1	2 36	2 33	1 21	0 43	S 17
S 18	10 43	24 48	2 54	18 26	2 57	18 16	0 13	20 41	2 24	4 28	1 1	2 37	2 33	1 20	0 43	S 18
M 19	11 4	25 8	1 51	18 21	2 52	18 38	0 16	20 34	2 22	4 23	1 1	2 39	2 33	1 19	0 43	M 19
T 20	11 24	23 56	0 41	18 12	2 45	18 59	0 19	20 27	2 21	4 18	1 1	2 40	2 33	1 17	0 43	T 20
W 21	11 45	21 18	0s32	18 1	2 38	19 20	0 22	20 20	2 19	4 13	1 1	2 41	2 33	1 16	0 43	W 21
T 22	12 5	17 22	1 44	17 46	2 29	19 40	0 24	20 12	2 17	4 9	1 1	2 43	2 33	1 15	0 43	T 22
F 23	12 25	12 25	2 51	17 29	2 18	20 0	0 27	20 5	2 16	4 4	1 1	2 44	2 33	1 14	0 43	F 23
S 24	12 45	6 44	3 47	17 10	2 7	20 19	0 30	19 57	2 14	3 59	1 2	2 45	2 33	1 13	0 43	S 24
S 25	13 5	0 41	4 30	16 48	1 54	20 37	0 32	19 50	2 13	3 54	1 2	2 47	2 32	1 11	0 43	S 25
M 26	13 25	5s25	4 56	16 24	1 40	20 55	0 35	19 42	2 11	3 49	1 2	2 48	2 32	1 10	0 43	M 26
T 27	13 44	11 11	5 2	15 58	1 25	21 13	0 38	19 34	2 10	3 44	1 2	2 49	2 32	1 9	0 43	T 27
W 28	14 3	16 19	4 50	15 31	1 9	21 30	0 41	19 26	2 8	3 40	1 2	2 50	2 32	1 8	0 43	W 28
T 29	14 22	20 27	4 20	15 2	0 53	21 46	0 43	19 18	2 7	3 35	1 2	2 51	2 32	1 7	0 43	T 29
F 30	14n40	23s21	3s36	14n34	0n36	22n 2	0n46	19n10	2n 5	3s30	1s 3	2n52	2n32	1s 6	0s44	F 30

Julian Day Number = 2455287.5, Delta T = 66.13 sec

Ecliptic obliquity = 23°26'20, Nutation = 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°53'00, Lahiri = 24°00'01

ASTRODIENST EPHEMERIS for the year 2010

geocentric

MAY 2010

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 35 17	10°31'34	11°50	6°R46	7°II 2	12°Ω30	23°H47	28°R34	28°H58	28°27	5°R16	13°R50	15°317	23°331	0°H24	S 1
S 2	14 39 13	11°29'47	24°44	6°8	8°15	12°55	23°59	28°H31	29° 0	28°28	5°316	13°346	15°14	23°38	0°26	S 2
M 3	14 43 10	12°27'59	7°317	5°32	9°28	13°19	24°11	28°28	29° 3	28°29	5°15	13°44	15°10	23°44	0°28	M 3
T 4	14 47 6	13°26'10	19°32	4°58	10°40	13°44	24°23	28°26	29° 6	28°30	5°14	13°D44	15° 7	23°51	0°30	T 4
W 5	14 51 3	14°24'19	1°34	4°27	11°53	14° 9	24°35	28°23	29° 8	28°30	5°13	13°45	15° 4	23°58	0°32	W 5
T 6	14 54 59	15°22'26	13°27	3°59	13° 5	14°35	24°46	28°21	29°11	28°31	5°13	13°R45	15° 1	24° 4	0°34	T 6
F 7	14 58 56	16°20'32	25°17	3°35	14°18	15° 1	24°58	28°18	29°14	28°32	5°12	13°45	14°58	24°11	0°35	F 7
S 8	15 2 53	17°18'37	7°H 9	3°15	15°30	15°26	25° 9	28°16	29°16	28°33	5°11	13°43	14°55	24°18	0°37	S 8
S 9	15 6 49	18°16'40	19° 7	3° 0	16°43	15°53	25°21	28°14	29°19	28°34	5°10	13°38	14°51	24°24	0°39	S 9
M10	15 10 46	19°14'42	1°Y17	2°48	17°55	16°19	25°32	28°12	29°21	28°34	5° 9	13°32	14°48	24°31	0°40	M10
T 11	15 14 42	20°12'43	13°41	2°42	19° 8	16°45	25°43	28°10	29°24	28°35	5° 8	13°24	14°45	24°38	0°42	T 11
W12	15 18 39	21°10'42	26°21	2°D40	20°20	17°12	25°55	28° 8	29°26	28°36	5° 7	13°15	14°42	24°44	0°43	W12
T 13	15 22 35	22° 8'39	9°H19	2°42	21°32	17°39	26° 6	28° 6	29°28	28°36	5° 6	13° 6	14°39	24°51	0°45	T 13
F 14	15 26 32	23° 6'36	22°33	2°49	22°44	18° 6	26°17	28° 4	29°31	28°37	5° 5	12°57	14°36	24°58	0°46	F 14
S 15	15 30 28	24° 4'31	6°II 3	3° 1	23°57	18°34	26°27	28° 3	29°33	28°38	5° 4	12°51	14°32	25° 4	0°47	S 15
S 16	15 34 25	25° 2'24	19°45	3°18	25° 9	19° 1	26°38	28° 1	29°35	28°38	5° 3	12°46	14°29	25°11	0°48	S 16
M17	15 38 22	26° 0'16	3°337	3°39	26°21	19°29	26°49	28° 0	29°38	28°39	5° 2	12°44	14°26	25°18	0°49	M17
T 18	15 42 18	26°58'06	17°37	4° 4	27°33	19°57	26°59	27°58	29°40	28°39	5° 1	12°D44	14°23	25°24	0°50	T 18
W19	15 46 15	27°55'54	1°Ω42	4°33	28°45	20°25	27°10	27°57	29°42	28°39	5° 0	12°45	14°20	25°31	0°51	W19
T 20	15 50 11	28°53'41	15°51	5° 6	29°57	20°54	27°20	27°56	29°44	28°40	4°58	12°46	14°16	25°38	0°52	T 20
F 21	15 54 8	29°51'25	0°H 1	5°44	1°30 9	21°22	27°30	27°55	29°46	28°40	4°57	12°R47	14°13	25°44	0°53	F 21
S 22	15 58 4	0°II49'09	14°11	6°25	2°20	21°51	27°41	27°54	29°48	28°41	4°56	12°46	14°10	25°51	0°54	S 22
S 23	16 2 1	1°46'50	28°20	7°10	3°32	22°20	27°51	27°53	29°50	28°41	4°55	12°43	14° 7	25°58	0°55	S 23
M24	16 5 57	2°44'30	12°Ω25	7°58	4°44	22°49	28° 0	27°52	29°52	28°41	4°54	12°39	14° 4	26° 4	0°56	M24
T 25	16 9 54	3°42'09	26°22	8°50	5°55	23°18	28°10	27°52	29°54	28°41	4°52	12°34	14° 1	26°11	0°56	T 25
W26	16 13 51	4°39'46	10°H10	9°46	7° 7	23°48	28°20	27°51	29°56	28°42	4°51	12°28	13°57	26°18	0°57	W26
T 27	16 17 47	5°37'22	23°44	10°44	8°18	24°17	28°29	27°51	29°58	28°42	4°50	12°22	13°54	26°25	0°57	T 27
F 28	16 21 44	6°34'56	7°H 2	11°46	9°30	24°47	28°39	27°50	29°59	28°42	4°49	12°17	13°51	26°31	0°58	F 28
S 29	16 25 40	7°32'30	20° 3	12°51	10°41	25°17	28°48	27°50	0°Y 2	28°42	4°47	12°14	13°48	26°38	0°58	S 29
S 30	16 29 37	8°30'02	2°346	13°59	11°53	25°47	28°57	27°50	0° 3	28°42	4°46	12°12	13°45	26°45	0°59	S 30
M31	16 33 33	9°II27'33	15°313	15°H11	13°30 4	26°Ω17	29°H 6	27°D50	0°Y 5	28°42	4°345	12°D11	13°342	26°451	0°H59	M31

Day	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	14n59	24s52	2s42	14n 4	0n19	22n17	0n49	19n 2	2n 4	3s26	1s 3	2n53	2n32	1s 5	0s44	12s26	0s27	18s11	5n 9	22s43	22s34	10s40	5s41	6n 2	
S 2	15 17	25 0	1 40	13 36	0 2	22 31	0 51	18 54	2 2	3 21	1 3	2 54	2 31	1 4	0 44	12 26	0 27	18 11	5 9	22 44	22 34	10 37	5 40	6 2	
M 3	15 35	23 49	0 34	13 7	0s16	22 45	0 54	18 45	2 1	3 17	1 3	2 55	2 31	1 3	0 44	12 25	0 27	18 11	5 9	22 44	22 35	10 34	5 39	6 2	
T 4	15 52	21 30	0n31	12 40	0 33	22 59	0 56	18 37	2 0	3 12	1 3	2 56	2 31	1 2	0 44	12 25	0 27	18 11	5 9	22 44	22 35	10 32	5 38	6 3	
W 5	16 10	18 17	1 34	12 14	0 49	23 11	0 59	18 28	1 58	3 7	1 3	2 57	2 31	1 1	0 44	12 25	0 27	18 11	5 9	22 44	22 35	10 29	5 37	6 3	
T 6	16 27	14 21	2 32	11 49	1 6	23 23	1 1	18 19	1 57	3 3	1 4	2 58	2 31	1 0	0 44	12 24	0 27	18 11	5 9	22 44	22 36	10 26	5 36	6 3	
F 7	16 43	9 54	3 24	11 26	1 21	23 34	1 4	18 10	1 55	2 59	1 4	2 59	2 31	0 59	0 44	12 24	0 27	18 11	5 9	22 44	22 36	10 23	5 35	6 4	
S 8	17 0	5 4	4 6	11 5	1 36	23 45	1 6	18 1	1 54	2 54	1 4	2 59	2 30	0 58	0 44	12 24	0 27	18 11	5 9	22 44	22 36	10 20	5 34	6 4	
S 9	17 16	0 2	4 39	10 47	1 50	23 55	1 9	17 52	1 53	2 50	1 4	3 0	2 30	0 57	0 44	12 24	0 27	18 11	5 9	22 44	22 37	10 17	5 33	6 4	
M10	17 32	5n 5	4 59	10 30	2 4	24 4	1 11	17 43	1 51	2 45	1 4	3 1	2 30	0 56	0 44	12 23	0 27	18 11	5 9	22 45	22 37	10 15	5 33	6 5	
T 11	17 48	10 6	5 6	10 16	2 16	24 13	1 14	17 34	1 50	2 41	1 5	3 1	2 30	0 55	0 44	12 23	0 27	18 11	5 9	22 46	22 37	10 12	5 32	6 5	
W12	18 3	14 48	4 58	10 5	2 28	24 21	1 16	17 24	1 49	2 37	1 5	3 2	2 30	0 54	0 44	12 23	0 27	18 11	5 9	22 47	22 38	10 9	5 31	6 5	
T 13	18 18	18 56	4 35	9 56	2 38	24 28	1 18	17 15	1 47	2 33	1 5	3 2	2 29	0 53	0 44	12 23	0 27	18 11	5 9	22 48	22 38	10 6	5 30	6 6	
F 14	18 33	22 13	3 57	9 49	2 48	24 35	1 21	17 5	1 46	2 29	1 5	3 3	2 29	0 52	0 44	12 23	0 27	18 11	5 9	22 48	22 38	10 3	5 29	6 6	
S 15	18 47	24 21	3 4	9 45	2 56	24 41	1 23	16 55	1 45	2 24	1 5	3 3	2 29	0 51	0 44	12 22	0 27	18 11	5 9	22 49	22 39	10 0	5 29	6 6	
S 16	19 2	25 3	2 1	9 44	3 4	24 46	1 25	16 46	1 44	2 20	1 5	3 4	2 29	0 50	0 44	12 22	0 27	18 11	5 9	22 50	22 39	9 58	5 28	6 7	
M17	19 15	24 12	0 49	9 45	3 10	24 50	1 27	16 36	1 42	2 16	1 6	3 4	2 29	0 49	0 44	12 22	0 27	18 11	5 9	22 50	22 39	9 55	5 27	6 7	
T 18	19 29	21 51	0s26	9 48	3 16	24 54	1 29	16 26	1 41	2 12	1 6	3 5	2 28	0 48	0 44	12 22	0 27	18 11	5 9	22 50	22 40	9 52	5 27	6 7	
W19	19 42	18 8	1 41	9 53	3 21	24 57	1 31	16 15	1 40	2 8	1 6	3 5	2 28	0 47	0 44	12 22	0 27	18 12	5 9	22 50	22 40	9 49	5 26	6 8	
T 20	19 55	13 23	2 49	10 0	3 25	24 59	1 33	16 5	1 39	2 4	1 6	3 5	2 28	0 47	0 44	12 22	0 27	18 12	5 9	22 50	22 40	9 46	5 25	6 8	
F 21	20 7	7 54	3 48	10 10	3 28	25 1	1 35	15 55	1 37	2 1	1 7	3 5	2 28	0 46	0 44	12 22	0 27	18 12	5 9	22 49	22 41	9 43	5 25	6 8	
S 22	20 19	2 2	4 32	10 21	3 30	25 2	1 37	15 44	1 36	1 57	1 7	3 6	2 28	0 45	0 44	12 22	0 27	18 12	5 9	22 50	22 41	9 40	5 24	6 9	
S 23	20 31	3s56	5 0	10 35	3 31	25 2	1 39	15 34	1 35	1 53	1 7	3 6	2 27	0 44	0 44	12 22	0 27	18 12	5 9	22 50	22 41	9 38	5 23	6 9	
M24	20 42	9 39	5 10	10 50	3 31	25 1	1 40	15 23	1 34	1 49	1 7	3 6	2 27	0 44	0 44	12 21	0 27	18 12	5 9	22 50	22 42	9 35	5 23	6 9	
T 25	20 53	14 51	5 11	11 7	3 31	25 0	1 42	15 12	1 33	1 46	1 7	3 6	2 27	0 43	0 44	12 21	0 27	18 12	5 9	22 51	22 42	9 32	5 22	6 10	
W26	21 4	19 12	4 35	11 25	3 30	24 58	1 44	15 2	1 31	1 42	1 8	3 6	2 27	0 42	0 44	12 21	0 27	18 12	5 9	22 51	22 42	9 29	5 22	6 10	
T 27	21 14	22 28	3 53	11 45	3 28	24 56	1 45	14 51	1 30	1 38	1 8	3 6	2 27	0 41	0 44	12 21	0 27	18 12	5 9	22 52	22 43	9 26	5 21	6 10	
F 28	21 24	24 26	3 0	12 6	3 26	24 52	1 47	14 40	1 29	1 35	1 8	3 6	2 26	0 41	0 44	12 21	0 27	18 12	5 9	22 52	22 43	9 23	5 21	6 11	
S 29	21 34	25 1	1 58	12 29	3 22	24 48	1 48	14 28	1 28	1 31	1 8	3 6	2 26	0 40	0 44	12 21	0 27	18 12	5 9	22 53	22 43	9 20	5 20	6 11	
S 30	21 43	24 16	0 51	12 53	3 18	24 43	1 49	14 17	1 27	1 28	1 9	3 6	2 26	0 39	0 44	12 21	0 27	18 12	5 9	22 53	22 44	9 18	5 20	6 11	
M31	21n52	22s18	0n17	13n18	3s14	24n38	1n51	14n 6	1n26	1s24	1s 9	3n 5	2n26	0s39	0s44	12s21	0s27	18s12	5n 9	22s53	22s44	9s15	5s20	6n12	

ASTRODIENST EPHEMERIS for the year 2010

geocentric

JUNE 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 37 30	10 ^{II} 25'04	27 ^{III} 25	16 ^{III} 25	14 ^{III} 15	26 ^{III} 47	29 ^{III} 15	27 ^{III} 50	0 ^{IV} 7	28 ^{III} R42	4 ^{IV} R43	12 ^{III} 12	13 ^{III} 38	26 ^{III} 58	0 ^{IV} 59	T 1
W 2	16 41 26	11°22'33	9 ^{III} 26	17°41	15°26	27°18	29°24	27°50	0° 8	28 ^{III} 42	4 ^{IV} 42	12°14	13°35	27° 5	0°59	W 2
T 3	16 45 23	12°20'02	21°20	19° 1	16°37	27°48	29°33	27°50	0°10	28°42	4°41	12°15	13°32	27°11	0°59	T 3
F 4	16 49 20	13°17'30	3 ^{III} 11	20°24	17°48	28°19	29°41	27°51	0°11	28°42	4°39	12°17	13°29	27°18	0°59	F 4
S 5	16 53 16	14°14'57	15° 4	21°49	18°59	28°50	29°50	27°51	0°13	28°42	4°38	12°R17	13°26	27°25	0°59	S 5
S 6	16 57 13	15°12'23	27° 4	23°17	20°10	29°21	29°58	27°52	0°14	28°42	4°36	12°17	13°22	27°31	0°59	S 6
M 7	17 1 9	16° 9'49	9 ^{IV} 15	24°48	21°21	29°52	0 ^{IV} 6	27°53	0°16	28°42	4°35	12°15	13°19	27°38	0°59	M 7
T 8	17 5 6	17° 7'14	21°42	26°21	22°31	0 ^{III} 23	0°14	27°53	0°17	28°41	4°33	12°12	13°16	27°45	0°59	T 8
W 9	17 9 2	18° 4'39	4 ^{III} 28	27°57	23°42	0°55	0°22	27°54	0°18	28°41	4°32	12° 9	13°13	27°51	0°59	W 9
T 10	17 12 59	19° 2'03	17°34	29°36	24°53	1°26	0°29	27°55	0°20	28°41	4°31	12° 5	13°10	27°58	0°58	T 10
F 11	17 16 55	19°59'26	1 ^{II} 2	1 ^{II} 18	26° 3	1°58	0°37	27°56	0°21	28°40	4°29	12° 2	13° 7	28° 5	0°58	F 11
S 12	17 20 52	20°56'49	14°50	3° 2	27°14	2°30	0°44	27°58	0°22	28°40	4°28	11°59	13° 3	28°11	0°58	S 12
S 13	17 24 49	21°54'11	28°55	4°48	28°24	3° 2	0°52	27°59	0°23	28°40	4°26	11°58	13° 0	28°18	0°57	S 13
M14	17 28 45	22°51'33	13 ^{III} 53	6°38	29°34	3°34	0°59	28° 0	0°24	28°39	4°25	11°D58	12°57	28°25	0°57	M14
T 15	17 32 42	23°48'53	27°39	8°30	0 ^{III} 44	4° 6	1° 6	28° 2	0°25	28°39	4°23	11°58	12°54	28°32	0°56	T 15
W16	17 36 38	24°46'13	12 ^{III} 8	10°24	1°54	4°38	1°13	28° 3	0°26	28°38	4°22	11°59	12°51	28°38	0°55	W16
T 17	17 40 35	25°43'32	26°35	12°20	3° 5	5°11	1°19	28° 5	0°27	28°38	4°20	12° 0	12°48	28°45	0°55	T 17
F 18	17 44 31	26°40'49	10 ^{III} 57	14°19	4°14	5°43	1°26	28° 7	0°28	28°37	4°19	12° 1	12°44	28°52	0°54	F 18
S 19	17 48 28	27°38'06	25°10	16°20	5°24	6°16	1°32	28° 9	0°29	28°37	4°17	12°R 2	12°41	28°58	0°53	S 19
S 20	17 52 24	28°35'23	9 ^{III} 13	18°24	6°34	6°49	1°38	28°11	0°30	28°36	4°16	12° 1	12°38	29° 5	0°52	S 20
M21	17 56 21	29°32'38	23° 2	20°29	7°44	7°22	1°44	28°13	0°30	28°36	4°14	12° 1	12°35	29°12	0°51	M21
T 22	18 0 18	0 ^{III} 29'53	6 ^{III} 39	22°35	8°53	7°55	1°50	28°15	0°31	28°35	4°12	12° 0	12°32	29°18	0°50	T 22
W23	18 4 14	1°27'07	20° 2	24°43	10° 3	8°28	1°56	28°17	0°32	28°34	4°11	11°58	12°28	29°25	0°49	W23
T 24	18 8 11	2°24'20	3 ^{III} 10	26°53	11°12	9° 1	2° 1	28°20	0°32	28°34	4° 9	11°57	12°25	29°32	0°48	T 24
F 25	18 12 7	3°21'33	16° 5	29° 3	12°21	9°34	2° 7	28°22	0°33	28°33	4° 8	11°56	12°22	29°38	0°47	F 25
S 26	18 16 4	4°18'46	28°46	1 ^{III} 13	13°31	10° 8	2°12	28°25	0°33	28°32	4° 6	11°55	12°19	29°45	0°46	S 26
S 27	18 20 0	5°15'58	11 ^{III} 14	3°25	14°40	10°41	2°17	28°27	0°34	28°31	4° 5	11°D55	12°16	29°52	0°44	S 27
M28	18 23 57	6°13'10	23°30	5°36	15°49	11°15	2°22	28°30	0°34	28°30	4° 3	11°55	12°13	29°58	0°43	M28
T 29	18 27 53	7°10'22	5 ^{III} 36	7°47	16°58	11°48	2°27	28°33	0°34	28°30	4° 2	11°56	12° 9	0 ^{IV} 5	0°42	T 29
W30	18 31 50	8 ^{III} 7'34	17 ^{III} 33	9 ^{III} 57	18 ^{III} 6	12 ^{III} 22	2 ^{IV} 31	28 ^{III} 36	0 ^{IV} 35	28 ^{III} 29	4 ^{IV} 0	11 ^{III} 56	12 ^{III} 6	0 ^{IV} 12	0 ^{IV} 40	W30

Day	☉	☽		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	22n 1	19s20	1n22	13n44	3s 9	24n32	1n52	13n55	1n25	1s21	1s 9	3n 5	2n26	0s38	0s44	12s21	0s28	18s12	5n 9	22s53	22s44	9s12	5s19	6n12			
W 2	22 9	15 35	2 24	14 11	3 3	24 25	1 53	13 43	1 23	1 18	1 9	3 5	2 25	0 37	0 44	12 21	0 28	18 12	5 9	22 53	22 45	9 9	5 19	6 12			
T 3	22 16	11 16	3 18	14 39	2 56	24 17	1 54	13 31	1 22	1 15	1 9	3 5	2 25	0 37	0 44	12 21	0 28	18 12	5 9	22 52	22 45	9 6	5 18	6 13			
F 4	22 24	6 33	4 4	15 7	2 49	24 9	1 55	13 20	1 21	1 11	1 10	3 4	2 25	0 36	0 44	12 21	0 28	18 13	5 9	22 52	22 45	9 3	5 18	6 13			
S 5	22 31	1 35	4 39	15 37	2 42	24 0	1 56	13 8	1 20	1 8	1 10	3 4	2 25	0 36	0 45	12 21	0 28	18 13	5 9	22 52	22 46	9 0	5 18	6 13			
S 6	22 37	3n28	5 3	16 6	2 34	23 51	1 57	12 56	1 19	1 5	1 10	3 3	2 24	0 35	0 45	12 22	0 28	18 13	5 9	22 52	22 46	8 58	5 17	6 14			
M 7	22 43	8 28	5 13	16 37	2 26	23 41	1 57	12 44	1 18	1 2	1 10	3 3	2 24	0 35	0 45	12 22	0 28	18 13	5 9	22 52	22 46	8 55	5 17	6 14			
T 8	22 49	13 14	5 10	17 7	2 17	23 30	1 58	12 32	1 17	0 59	1 11	3 3	2 24	0 34	0 45	12 22	0 28	18 13	5 9	22 53	22 47	8 52	5 17	6 14			
W 9	22 54	17 34	4 51	17 38	2 8	23 18	1 59	12 20	1 16	0 56	1 11	3 2	2 24	0 34	0 45	12 22	0 28	18 13	5 9	22 53	22 47	8 49	5 17	6 15			
T 10	22 59	21 10	4 16	18 9	1 58	23 6	1 59	12 8	1 15	0 54	1 11	3 1	2 24	0 33	0 45	12 22	0 28	18 13	5 9	22 53	22 47	8 46	5 17	6 15			
F 11	23 4	23 44	3 27	18 40	1 48	22 54	2 0	11 55	1 14	0 51	1 11	3 1	2 23	0 33	0 45	12 22	0 28	18 13	5 9	22 54	22 48	8 43	5 16	6 15			
S 12	23 8	24 58	2 24	19 10	1 37	22 40	2 0	11 43	1 13	0 48	1 12	3 0	2 23	0 32	0 45	12 22	0 28	18 13	5 9	22 54	22 48	8 40	5 16	6 16			
S 13	23 11	24 37	1 11	19 40	1 27	22 26	2 0	11 30	1 12	0 46	1 12	2 59	2 23	0 32	0 45	12 22	0 28	18 13	5 9	22 54	22 48	8 38	5 16	6 16			
M14	23 15	22 40	0s 7	20 10	1 16	22 12	2 0	11 18	1 11	0 43	1 12	2 59	2 23	0 32	0 45	12 23	0 28	18 14	5 8	22 54	22 48	8 35	5 16	6 16			
T 15	23 18	19 14	1 26	20 39	1 5	21 57	2 0	11 5	1 10	0 40	1 13	2 58	2 23	0 31	0 45	12 23	0 28	18 14	5 8	22 54	22 49	8 32	5 16	6 17			
W16	23 20	14 37	2 39	21 7	0 54	21 41	2 0	10 52	1 9	0 38	1 13	2 57	2 22	0 31	0 45	12 23	0 28	18 14	5 8	22 54	22 49	8 29	5 16	6 17			
T 17	23 22	9 10	3 42	21 34	0 42	21 25	2 0	10 40	1 8	0 36	1 13	2 56	2 22	0 30	0 45	12 23	0 28	18 14	5 8	22 54	22 49	8 26	5 16	6 17			
F 18	23 24	3 17	4 31	22 0	0 31	21 8	2 0	10 27	1 7	0 33	1 13	2 55	2 22	0 30	0 45	12 23	0 28	18 14	5 8	22 54	22 50	8 23	5 16	6 18			
S 19	23 25	2s43	5 3	22 25	0 20	20 51	1 59	10 14	1 6	0 31	1 14	2 54	2 22	0 30	0 45	12 24	0 28	18 14	5 8	22 54	22 50	8 20	5 16	6 18			
S 20	23 26	8 29	5 16	22 47	0 9	20 33	1 59	10 1	1 5	0 29	1 14	2 53	2 21	0 30	0 45	12 24	0 28	18 14	5 8	22 54	22 50	8 17	5 16	6 18			
M21	23 26	13 45	5 10	23 8	0n 2	20 15	1 58	9 48	1 4	0 27	1 14	2 52	2 21	0 29	0 45	12 24	0 28	18 14	5 8	22 54	22 51	8 15	5 16	6 19			
T 22	23 26	18 15	4 48	23 27	0 13	19 56	1 58	9 34	1 3	0 25	1 14	2 51	2 21	0 29	0 45	12 24	0 28	18 15	5 8	22 54	22 51	8 12	5 16	6 19			
W23	23 26	21 45	4 9	23 44	0 24	19 36	1 57	9 21	1 2	0 22	1 15	2 50	2 21	0 29	0 45	12 25	0 28	18 15	5 8	22 54	22 51	8 9	5 16	6 19			
T 24	23 25	24 2	3 19	23 58	0 34	19 17	1 56	9 8	1 1	0 21	1 15	2 49	2 21	0 29	0 45	12 25	0 28	18 15	5 8	22 54	22 51	8 6	5 16	6 19			
F 25	23 24	25 0	2 18	24 10	0 44	18 56	1 55	8 54	1 0	0 19	1 15	2 48	2 20	0 28	0 45	12 25	0 28	18 15	5 8	22 54	22 52	8 3	5 16	6 20			
S 26	23 22	24 38	1 12	24 19	0 53	18 36	1 54	8 41	0 59	0 17	1 16	2 47	2 20	0 28	0 45	12 25	0 28	18 15	5 7	22 54	22 52	8 0	5 16	6 20			
S 27	23 20	23 2	0 4	24 25	1 2	18 14	1 53	8 27	0 58	0 15	1 16	2 45	2 20	0 28	0 45	12 26	0 28	18 15	5 7	22 54	22 52	7 57	5 17	6 20			
M28	23 18	20 21	1n 4	24 29	1 10	17 53	1 52	8 13	0 57	0 13	1 16	2 44	2 20	0 28	0 45	12 26	0 28	18 15	5 7	22 54	22 53	7 54	5 17	6 21			
T 29	23 15	16 49	2 8	24 30	1 17	17 31	1 51	8 0	0 56	0 12	1 16	2 43	2 20	0 28	0 45	12 26	0 28	18 16	5 7	22 54	22 53	7 52	5 17	6 21			
W30	23n11	12s38	3n 5	24n27	1n24	17n 8	1n49	7n46	0n55	0s10	1s17	2n41	2n19	0s28	0s45	12s27	0s28	18s16	5n 7	22s54	22s53	7s49	5s17	6n21			

ASTRODIENST EPHEMERIS for the year 2010

geocentric

JULY 2010

00:00 UT

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

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	23n 8	8s 1	3n54	24n23	1n30	16n45	1n48	7n32	0n54	0s 9	1s17	2n40	2n19	0s28	0s45	12s27
F 2	23 4	3 7	4 33	24 15	1 35	16 22	1 46	7 18	0 53	0 7	1 17	2 39	2 19	0 28	0 45	12 27
S 3	22 59	1n53	5 0	24 5	1 40	15 58	1 44	7 4	0 52	0 6	1 18	2 37	2 19	0 28	0 45	12 28
S 4	22 54	6 52	5 15	23 52	1 44	15 34	1 43	6 50	0 51	0 5	1 18	2 36	2 19	0 28	0 46	12 28
M 5	22 49	11 40	5 16	23 37	1 47	15 10	1 41	6 36	0 50	0 4	1 18	2 34	2 18	0 28	0 46	12 28
T 6	22 43	16 5	5 2	23 20	1 49	14 45	1 38	6 22	0 50	0 3	1 18	2 32	2 18	0 28	0 46	12 29
W 7	22 37	19 55	4 33	23 0	1 51	14 20	1 36	6 8	0 49	0 2	1 19	2 31	2 18	0 28	0 46	12 29
T 8	22 31	22 53	3 50	22 38	1 51	13 55	1 34	5 53	0 48	0 1	1 19	2 29	2 18	0 28	0 46	12 30
F 9	22 24	24 39	2 52	22 15	1 52	13 29	1 32	5 39	0 47	0n 0	1 19	2 28	2 18	0 28	0 46	12 30
S 10	22 16	24 58	1 43	21 50	1 51	13 3	1 29	5 25	0 46	0 1	1 20	2 26	2 17	0 28	0 46	12 30
S 11	22 9	23 39	0 25	21 23	1 50	12 37	1 27	5 10	0 45	0 2	1 20	2 24	2 17	0 28	0 46	12 31
M 12	22 1	20 43	0s56	20 55	1 48	12 10	1 24	4 56	0 44	0 2	1 20	2 22	2 17	0 28	0 46	12 31
T 13	21 52	16 24	2 14	20 25	1 46	11 44	1 21	4 41	0 43	0 3	1 21	2 21	2 17	0 28	0 46	12 32
W 14	21 43	11 2	3 23	19 54	1 43	11 17	1 18	4 26	0 43	0 3	1 21	2 19	2 17	0 29	0 46	12 32
T 15	21 34	5 4	4 19	19 22	1 39	10 49	1 15	4 12	0 42	0 4	1 21	2 17	2 16	0 29	0 46	12 33
F 16	21 25	1s 6	4 56	18 49	1 35	10 22	1 12	3 57	0 41	0 4	1 21	2 15	2 16	0 29	0 46	12 33
S 17	21 15	7 5	5 15	18 16	1 30	9 54	1 9	3 42	0 40	0 4	1 22	2 13	2 16	0 29	0 46	12 33
S 18	21 5	12 35	5 13	17 41	1 25	9 26	1 5	3 27	0 39	0 5	1 22	2 11	2 16	0 30	0 46	12 34
M 19	20 54	17 19	4 54	17 6	1 19	8 58	1 2	3 13	0 38	0 5	1 22	2 9	2 16	0 30	0 46	12 34
T 20	20 43	21 3	4 19	16 30	1 13	8 30	0 58	2 58	0 37	0 5	1 23	2 7	2 16	0 30	0 46	12 35
W 21	20 32	23 37	3 31	15 54	1 7	8 1	0 55	2 43	0 37	0 5	1 23	2 5	2 15	0 30	0 46	12 35
T 22	20 20	24 53	2 34	15 18	1 0	7 33	0 51	2 28	0 36	0 5	1 23	2 3	2 15	0 31	0 46	12 36
F 23	20 8	24 51	1 30	14 41	0 52	7 4	0 47	2 13	0 35	0 4	1 24	2 1	2 15	0 31	0 46	12 36
S 24	19 56	23 35	0 22	14 4	0 45	6 35	0 43	1 58	0 34	0 4	1 24	1 59	2 15	0 31	0 46	12 37
S 25	19 43	21 12	0n45	13 27	0 36	6 6	0 39	1 43	0 33	0 4	1 24	1 57	2 15	0 32	0 46	12 37
M 26	19 30	17 54	1 49	12 49	0 28	5 37	0 35	1 27	0 32	0 3	1 24	1 55	2 15	0 32	0 46	12 38
T 27	19 17	13 54	2 48	12 12	0 19	5 8	0 31	1 12	0 32	0 3	1 25	1 53	2 14	0 33	0 46	12 38
W 28	19 3	9 24	3 39	11 35	0 10	4 39	0 26	0 57	0 31	0 2	1 25	1 51	2 14	0 33	0 46	12 39
T 29	18 49	4 34	4 21	10 58	0 1	4 9	0 22	0 42	0 30	0 2	1 25	1 48	2 14	0 34	0 46	12 39
F 30	18 35	0n24	4 51	10 21	0s 9	3 40	0 17	0 27	0 29	0 1	1 26	1 46	2 14	0 34	0 46	12 40
S 31	18n21	5n22	5n 9	9n45	0s19	3n10	0n13	0n11	0n28	0n 0	1s26	1n44	2n14	0s34	0s46	12s40

Julian Day Number = 2455378.5, Delta T = 66.20 sec
 Ecliptic obliquity = 23°26'18", Nutation = 0°00'17", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°53'13", Lahiri = 24°00'13"

ASTRODIENST EPHEMERIS for the year 2010

geocentric

AUGUST 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 38 0	8♌39°49	13♍38	5♊14	23♎33	1♈14	3♏17	0♈53	0♏19	27♏49	3♏15	11♏37	10♏25	3♏46	29♏30	S 1
M 2	20 41 56	9♍37°12	25♎47	6♊25	24♏37	1♏50	3♏15	0♏58	0♏18	27♏47	3♏14	11♏34	10♏21	3♏53	29♏27	M 2
T 3	20 45 53	10♍34°37	8♌10	7♊34	25♎40	2♏27	3♏13	1♏4	0♏17	27♏46	3♏13	11♏34	10♏18	3♏59	29♏24	T 3
W 4	20 49 50	11♍32°03	20♏51	8♊41	26♎43	3♏4	3♏11	1♏10	0♏15	27♏44	3♏12	11♏34	10♏15	4♏6	29♏22	W 4
T 5	20 53 46	12♍29°31	3♏54	9♊44	27♎46	3♏41	3♏9	1♏15	0♏14	27♏43	3♏11	11♏35	10♏12	4♏13	29♏19	T 5
F 6	20 57 43	13♍26°59	17♏22	10♊46	28♎48	4♏18	3♏6	1♏21	0♏13	27♏41	3♏10	11♏37	10♏9	4♏19	29♏16	F 6
S 7	21 1 39	14♍24°29	1♏16	11♊44	29♎50	4♏55	3♏4	1♏27	0♏11	27♏40	3♏9	11♏38	10♏6	4♏26	29♏13	S 7
S 8	21 5 36	15♍22°00	15♏38	12♊40	0♏52	5♏32	3♏1	1♏33	0♏10	27♏38	3♏8	11♏38	10♏2	4♏33	29♏10	S 8
M 9	21 9 32	16♍19°33	0♏23	13♏32	1♏54	6♏10	2♏57	1♏38	0♏8	27♏36	3♏7	11♏37	9♏59	4♏40	29♏7	M 9
T 10	21 13 29	17♍17°06	15♏26	14♏22	2♏55	6♏47	2♏54	1♏44	0♏7	27♏35	3♏6	11♏34	9♏56	4♏46	29♏4	T 10
W 11	21 17 25	18♍14°40	0♏38	15♏8	3♏56	7♏25	2♏51	1♏50	0♏5	27♏33	3♏5	11♏30	9♏53	4♏53	29♏1	W 11
T 12	21 21 22	19♍12°16	15♏48	15♏50	4♏57	8♏2	2♏47	1♏56	0♏4	27♏32	3♏4	11♏25	9♏50	5♏0	28♏58	T 12
F 13	21 25 19	20♍9°52	0♏48	16♏29	5♏57	8♏40	2♏43	2♏3	0♏2	27♏30	3♏3	11♏19	9♏46	5♏6	28♏56	F 13
S 14	21 29 15	21♍7°30	15♏29	17♏5	6♏57	9♏18	2♏39	2♏9	0♏0	27♏28	3♏2	11♏14	9♏43	5♏13	28♏53	S 14
S 15	21 33 12	22♍5°08	29♎45	17♏36	7♏57	9♏55	2♏35	2♏15	29♏59	27♏27	3♏1	11♏11	9♏40	5♏20	28♏50	S 15
M 16	21 37 8	23♍2°47	13♏34	18♏2	8♏56	10♏33	2♏31	2♏21	29♏57	27♏25	3♏0	11♏9	9♏37	5♏26	28♏47	M 16
T 17	21 41 5	24♍0°28	26♏57	18♏24	9♏55	11♏11	2♏26	2♏27	29♏55	27♏24	2♏59	11♏D 8	9♏34	5♏33	28♏44	T 17
W 18	21 45 1	24♍58°09	9♏57	18♏42	10♏54	11♏49	2♏21	2♏34	29♏53	27♏22	2♏59	11♏9	9♏31	5♏40	28♏41	W 18
T 19	21 48 58	25♍55°52	22♏36	18♏54	11♏52	12♏27	2♏16	2♏40	29♏51	27♏20	2♏58	11♏10	9♏27	5♏47	28♏38	T 19
F 20	21 52 54	26♍53°35	4♏59	19♏2	12♏50	13♏5	2♏11	2♏47	29♏49	27♏19	2♏57	11♏R 12	9♏24	5♏53	28♏35	F 20
S 21	21 56 51	27♍51°20	17♏10	19♏R 3	13♏48	13♏43	2♏6	2♏53	29♏48	27♏17	2♏56	11♏11	9♏21	6♏0	28♏32	S 21
S 22	22 0 48	28♍49°06	29♏11	19♏0	14♏45	14♏22	2♏1	3♏0	29♏46	27♏15	2♏56	11♏10	9♏18	6♏7	28♏29	S 22
M 23	22 4 44	29♍46°53	11♏7	18♏50	15♏41	15♏0	1♏55	3♏6	29♏44	27♏14	2♏55	11♏6	9♏15	6♏13	28♏26	M 23
T 24	22 8 41	0♏44°41	23♏0	18♏35	16♏37	15♏39	1♏50	3♏13	29♏42	27♏12	2♏54	11♏0	9♏12	6♏20	28♏23	T 24
W 25	22 12 37	1♏42°31	4♏51	18♏14	17♏33	16♏17	1♏44	3♏20	29♏40	27♏10	2♏54	10♏52	9♏8	6♏27	28♏20	W 25
T 26	22 16 34	2♏40°22	16♏42	17♏46	18♏28	16♏56	1♏38	3♏26	29♏38	27♏9	2♏53	10♏42	9♏5	6♏33	28♏17	T 26
F 27	22 20 30	3♏38°15	28♏36	17♏14	19♏22	17♏34	1♏32	3♏33	29♏36	27♏7	2♏52	10♏32	9♏2	6♏40	28♏14	F 27
S 28	22 24 27	4♏36°09	10♏33	16♏36	20♏16	18♏13	1♏25	3♏40	29♏33	27♏6	2♏52	10♏22	8♏59	6♏47	28♏11	S 28
S 29	22 28 23	5♏34°05	22♏36	15♏52	21♏10	18♏52	1♏19	3♏47	29♏31	27♏4	2♏51	10♏14	8♏56	6♏54	28♏8	S 29
M 30	22 32 20	6♏32°03	4♏48	15♏5	22♏3	19♏31	1♏13	3♏53	29♏29	27♏2	2♏51	10♏7	8♏52	7♏0	28♏5	M 30
T 31	22 36 16	7♏30°03	17♏11	14♏13	22♏55	20♏9	1♏19	4♏0	29♏27	27♏1	2♏51	10♏3	8♏49	7♏7	28♏2	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	18n 6	10n11	5n13	9n 8	0s29	2n41	0n 8	0s 4	0n28	0s 1	1s26	1n42	2n14	0s35	0s46	12s41	0s29	18s22	5n 2	22s56	23s 2	6s16	5s35	6n27			
M 2	17 51	14 41	5 4	8 33	0 39	2 11	0 3	0 19	0 27	0 2	1 27	1 39	2 14	0 35	0 46	12 42	0 29	18 22	5 2	22 56	23 2	6 13	5 36	6 27			
T 3	17 35	18 39	4 40	7 57	0 50	1 42	0s 2	0 35	0 26	0 3	1 27	1 37	2 13	0 36	0 47	12 42	0 29	18 22	5 2	22 56	23 2	6 11	5 37	6 28			
W 4	17 19	21 52	4 3	7 23	1 1	1 12	0 7	0 50	0 25	0 4	1 27	1 35	2 13	0 37	0 47	12 43	0 29	18 23	5 1	22 56	23 3	6 8	5 38	6 28			
T 5	17 3	24 4	3 12	6 49	1 12	0 42	0 12	1 5	0 24	0 5	1 27	1 32	2 13	0 37	0 47	12 43	0 29	18 23	5 1	22 56	23 3	6 5	5 39	6 28			
F 6	16 47	24 59	2 9	6 15	1 23	0 13	0 17	1 21	0 24	0 6	1 28	1 30	2 13	0 38	0 47	12 44	0 29	18 23	5 1	22 56	23 3	6 2	5 40	6 28			
S 7	16 30	24 22	0 56	5 43	1 34	0s17	0 23	1 36	0 23	0 8	1 28	1 27	2 13	0 38	0 47	12 44	0 29	18 23	5 1	22 56	23 3	5 59	5 41	6 28			
S 8	16 14	22 10	0s22	5 11	1 45	0 47	0 28	1 52	0 22	0 9	1 28	1 25	2 13	0 39	0 47	12 45	0 29	18 24	5 1	22 56	23 4	5 56	5 42	6 28			
M 9	15 57	18 26	1 41	4 41	1 57	1 16	0 34	2 7	0 21	0 11	1 28	1 23	2 13	0 40	0 47	12 45	0 29	18 24	5 0	22 56	23 4	5 53	5 43	6 28			
T 10	15 39	13 26	2 54	4 11	2 8	1 46	0 39	2 23	0 20	0 12	1 29	1 20	2 12	0 40	0 47	12 46	0 29	18 24	5 0	22 56	23 4	5 50	5 44	6 28			
W 11	15 22	7 35	3 55	3 43	2 19	2 15	0 45	2 38	0 20	0 14	1 29	1 18	2 12	0 41	0 47	12 47	0 29	18 24	5 0	22 56	23 4	5 47	5 45	6 28			
T 12	15 4	1 18	4 40	3 16	2 31	2 45	0 51	2 54	0 19	0 16	1 29	1 15	2 12	0 41	0 47	12 47	0 29	18 25	5 0	22 57	23 4	5 45	5 46	6 28			
F 13	14 46	4s59	5 5	2 51	2 42	3 14	0 57	3 9	0 18	0 17	1 30	1 12	2 12	0 42	0 47	12 48	0 29	18 25	4 59	22 57	23 5	5 42	5 47	6 28			
S 14	14 27	10 51	5 9	2 27	2 53	3 43	1 3	3 25	0 17	0 19	1 30	1 10	2 12	0 43	0 47	12 48	0 29	18 25	4 59	22 58	23 5	5 39	5 48	6 28			
S 15	14 9	15 58	4 54	2 5	3 4	4 12	1 9	3 40	0 17	0 21	1 30	1 7	2 12	0 44	0 47	12 49	0 29	18 25	4 59	22 58	23 5	5 36	5 49	6 28			
M 16	13 50	20 5	4 42	1 44	3 15	4 41	1 15	3 56	0 16	0 23	1 30	1 5	2 12	0 44	0 47	12 49	0 29	18 26	4 59	22 58	23 5	5 33	5 50	6 28			
T 17	13 31	22 59	3 37	1 26	3 25	5 10	1 21	4 12	0 15	0 25	1 31	1 2	2 12	0 45	0 47	12 50	0 29	18 26	4 59	22 58	23 6	5 30	5 51	6 28			
W 18	13 12	24 36	2 41	1 10	3 36	5 39	1 27	4 27	0 14	0 27	1 31	1 0	2 12	0 46	0 47	12 51	0 29	18 26	4 58	22 58	23 6	5 27	5 52	6 28			
T 19	12 52	24 53	1 39	0 56	3 45	6 8	1 34	4 43	0 14	0 29	1 31	0 57	2 11	0 46	0 47	12 51	0 29	18 26	4 58	22 58	23 6	5 24	5 53	6 28			
F 20	12 33	23 54	0 34	0 45	3 54	6 36	1 40	4 58	0 13	0 32	1 31	0 54	2 11	0 47	0 47	12 52	0 29	18 27	4 58	22 58	23 6	5 21	5 54	6 28			
S 21	12 13	21 48	0n32	0 36	4 3	7 5	1 47	5 14	0 12	0 34	1 32	0 52	2 11	0 48	0 47	12 52	0 29	18 27	4 58	22 58	23 7	5 19	5 55	6 28			
S 22	11 53	18 46	1 36	0 31	4 11	7 33	1 53	5 29	0 11	0 36	1 32	0 49	2 11	0 49	0 47	12 53	0 29	18 27	4 57	22 58	23 7	5 16	5 56	6 28			
M 23	11 33	14 58	2 34	0 28	4 17	8 1	2 0	5 45	0 11	0 39	1 32	0 46	2 11	0 50	0 47	12 53	0 29	18 27	4 57	22 58	23 7	5 13	5 57	6 28			
T 24	11 13	10 37	3 26	0 29	4 23	8 29	2 7	6 0	0 10	0 41	1 32	0 44	2 11	0 50	0 47	12 54	0 29	18 28	4 57	22 59	23 7	5 10	5 58	6 28			
W 25	10 52	5 53	4 8	0 32	4 28	8 56	2 13	6 16	0 9	0 44	1 32	0 41	2 11	0 51	0 47	12 55	0 29	18 28	4 57	23 0	23 7	5 7	5 59	6 28			
T 26	10 31	0 57	4 39	0 40	4 32	9 24	2 20	6 31	0 9	0 46	1 33	0 38	2 11	0 52	0 47	12 55	0 29	18 28	4 56	23 0	23 8	5 4	6 0	6 28			
F 27	10 10	4n 1	4 59	0 50	4 34	9 51	2 27	6 47	0 8	0 49	1 33	0 35	2 11	0 53	0 47	12 56	0 29	18 28	4 56	23 1	23 8	5 1	6 1	6 27			
S 28	9 49	8 51	5 5	1 5	4 34	10 18	2 34	7 2	0 7	0 51	1 33	0 33	2 11	0 54	0 47	12 56	0 29	18 29	4 56	23 2	23 8	4 58	6 2	6 27			
S 29	9 28	13 24	4 58	1 22	4 33	10 45	2 41	7 17	0 6	0 54	1 33	0 30	2 11	0 55	0 47	12 57	0 29	18 29	4 56	23 3	23 8	4 55	6 4	6 27			
M 30	9 7	17 29	4 38	1 43	4 30	11 11	2 48	7 33	0 6	0 57	1 33	0 27	2 11	0 55	0 47	12 57	0 29	18 29	4 55	23 3	23 8	4 53	6 5	6 27			
T 31	8n45	20n52	4n 4	2n 8	4s25	11s37	2s55	7s48	0n 5	1s 0	1s34	0n24	2n10	0s56	0s47	12s58	0s29	18s29	4n55	23s 3	23s 9	4s50	6s 6	6n27			

ASTRODIENST EPHEMERIS for the year 2010

geocentric

SEPTEMBER 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	22 40 13	8 ^h 28'05"	29 ^h 50'	13°R19	23 ^h 47'	20 ^h 49'	0°R59	4 ^h 7'	29°R25	26°R59	2°R50	10°R 1	8 ^h 34'	7 ^h 14'	27°R59	W 1
T 2	22 44 10	9°26'08"	12 ^h 47'	12 ^h 22'	24°38'	21°28'	0°Y52	4°14'	29 ^h 23'	26°R57	2°R50	10°D 0	8°43'	7°20'	27°R56	T 2
F 3	22 48 6	10°24'14"	26° 7'	11°25'	25°28'	22° 7'	0°45'	4°21'	29°20'	26°56'	2°49'	10°R 1	8°40'	7°27'	27°53'	F 3
S 4	22 52 3	11°22'22"	9 ^h 53'	10°28'	26°18'	22°46'	0°38'	4°28'	29°18'	26°54'	2°49'	10°R 2	8°37'	7°34'	27°50'	S 4
S 5	22 55 59	12°20'31"	24° 6'	9°32'	27° 7'	23°25'	0°31'	4°35'	29°16'	26°53'	2°49'	10° 1	8°33'	7°40'	27°47'	S 5
M 6	22 59 56	13°18'43"	8 ^h 45'	8°40'	27°55'	24° 5'	0°24'	4°42'	29°14'	26°51'	2°48'	9°58'	8°30'	7°47'	27°44'	M 6
T 7	23 3 52	14°16'56"	23°45'	7°51'	28°43'	24°44'	0°17'	4°49'	29°11'	26°50'	2°48'	9°53'	8°27'	7°54'	27°41'	T 7
W 8	23 7 49	15°15'11"	8 ^h 59'	7° 8'	29°30'	25°24'	0° 9'	4°56'	29° 9'	26°48'	2°48'	9°45'	8°24'	8° 1'	27°39'	W 8
T 9	23 11 45	16°13'28"	24°17'	6°31'	0 ^h 16'	26° 3'	0° 2'	5° 3'	29° 7'	26°47'	2°48'	9°35'	8°21'	8° 7'	27°36'	T 9
F 10	23 15 42	17°11'47"	9 ^h 27'	6° 1'	1° 1'	26°43'	29 ^h 54'	5°11'	29° 4'	26°45'	2°48'	9°25'	8°17'	8°14'	27°33'	F 10
S 11	23 19 39	18°10'07"	24°19'	5°39'	1°45'	27°23'	29°46'	5°18'	29° 2'	26°44'	2°48'	9°16'	8°14'	8°21'	27°30'	S 11
S 12	23 23 35	19° 8'29"	8 ^h 46'	5°26'	2°28'	28° 2'	29°39'	5°25'	29° 0'	26°42'	2°47'	9° 9'	8°11'	8°27'	27°27'	S 12
M13	23 27 32	20° 6'52"	22°43'	5°D22	3°11'	28°42'	29°31'	5°32'	28°57'	26°41'	2°47'	9° 4'	8° 8'	8°34'	27°25'	M13
T 14	23 31 28	21° 5'18"	6 ^h 11'	5°27'	3°52'	29°22'	29°23'	5°39'	28°55'	26°39'	2°D47'	9° 1'	8° 5'	8°41'	27°22'	T 14
W15	23 35 25	22° 3'44"	19°12'	5°41'	4°32'	0 ^h 16'	29°15'	5°47'	28°53'	26°38'	2°47'	9°D 0	8° 2'	8°47'	27°19'	W15
T 16	23 39 21	23° 2'13"	1 ^h 34'	6° 5'	5°12'	0°42'	29° 7'	5°54'	28°50'	26°36'	2°47'	9° 0'	7°58'	8°54'	27°17'	T 16
F 17	23 43 18	24° 0'43"	14° 8'	6°37'	5°50'	1°23'	28°59'	6° 1'	28°48'	26°35'	2°48'	9°R 0	7°55'	9° 1'	27°14'	F 17
S 18	23 47 14	24°59'14"	26°13'	7°18'	6°27'	2° 3'	28°51'	6° 9'	28°45'	26°33'	2°48'	8°59'	7°52'	9° 8'	27°12'	S 18
S 19	23 51 11	25°57'48"	8 ^h 59'	8° 8'	7° 2'	2°43'	28°43'	6°16'	28°43'	26°32'	2°48'	8°55'	7°49'	9°14'	27° 9'	S 19
M20	23 55 8	26°56'22"	20° 1'	9° 5'	7°37'	3°23'	28°35'	6°23'	28°41'	26°31'	2°48'	8°49'	7°46'	9°21'	27° 7'	M20
T 21	23 59 4	27°54'59"	1 ^h 51'	10°10'	8°10'	4° 4'	28°27'	6°31'	28°38'	26°29'	2°48'	8°41'	7°43'	9°28'	27° 4'	T 21
W22	0 3 1	28°53'37"	13°43'	11°21'	8°41'	4°44'	28°19'	6°38'	28°36'	26°28'	2°48'	8°29'	7°39'	9°34'	27° 2'	W22
T 23	0 6 57	29°52'18"	25°37'	12°39'	9°12'	5°25'	28°11'	6°45'	28°33'	26°27'	2°49'	8°16'	7°36'	9°41'	26°59'	T 23
F 24	0 10 54	0 ^h 51'00"	7 ^h 37'	14° 2'	9°40'	6° 6'	28° 3'	6°53'	28°31'	26°25'	2°49'	8° 2'	7°33'	9°48'	26°57'	F 24
S 25	0 14 50	1°49'44"	19°42'	15°29'	10° 7'	6°46'	27°55'	7° 0'	28°29'	26°24'	2°49'	7°48'	7°30'	9°55'	26°55'	S 25
S 26	0 18 47	2°48'31"	1 ^h 54'	17° 1'	10°33'	7°27'	27°47'	7° 7'	28°26'	26°23'	2°50'	7°36'	7°27'	10° 1'	26°53'	S 26
M27	0 22 43	3°47'19"	14°15'	18°36'	10°57'	8° 8'	27°39'	7°15'	28°24'	26°22'	2°50'	7°26'	7°23'	10° 8'	26°50'	M27
T 28	0 26 40	4°46'10"	26°45'	20°14'	11°19'	8°49'	27°31'	7°22'	28°21'	26°20'	2°50'	7°19'	7°20'	10°15'	26°48'	T 28
W29	0 30 37	5°45'03"	9 ^h 28'	21°55'	11°40'	9°30'	27°24'	7°30'	28°19'	26°19'	2°51'	7°15'	7°17'	10°21'	26°46'	W29
T 30	0 34 33	6°43'58"	22 ^h 26'	23 ^h 37'	11 ^h 58'	10 ^h 11'	27 ^h 16'	7 ^h 37'	28 ^h 17'	26°R18	2°R51	7°R13	7°R14	10 ^h 28'	26°R44	T 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	8n24	23n20	3n18	2n35	4s19	12s 3	3s 2	8s 4	0n 4	1s 2	1s34	0n21	2n10	0s57	0s47	12s59	0s29	18s30	4n55	23s 4	23s 9	4s47	6s 7	6n27			
T 2	8 2	24 39	2 20	3 4	4 10	12 29	3 10	8 19	0 3	1 5	1 34	0 19	2 10	0 58	0 47	12 59	0 29	18 30	4 55	23 4	23 9	4 44	6 8	6 27			
F 3	7 40	24 36	1 14	3 35	4 0	12 54	3 17	8 34	0 3	1 8	1 34	0 16	2 10	0 59	0 47	13 0	0 29	18 30	4 54	23 4	23 9	4 41	6 9	6 27			
S 4	7 18	23 5	0 1	4 8	3 47	13 19	3 24	8 49	0 2	1 11	1 34	0 13	2 10	1 0	0 47	13 0	0 29	18 30	4 54	23 4	23 10	4 38	6 10	6 27			
S 5	6 56	20 4	1s14	4 42	3 33	13 44	3 31	9 5	0 1	1 14	1 34	0 10	2 10	1 1	0 47	13 1	0 29	18 31	4 54	23 4	23 10	4 35	6 11	6 26			
M 6	6 34	15 43	2 27	5 16	3 18	14 8	3 39	9 20	0 1	1 17	1 35	0 7	2 10	1 2	0 47	13 1	0 29	18 31	4 54	23 4	23 10	4 32	6 12	6 26			
T 7	6 11	10 17	3 31	5 50	3 1	14 32	3 46	9 35	0s 0	1 20	1 35	0 5	2 10	1 3	0 47	13 2	0 29	18 31	4 53	23 4	23 10	4 29	6 14	6 26			
W 8	5 49	4 10	4 21	6 22	2 43	14 56	3 54	9 50	0 1	1 23	1 35	0 2	2 10	1 4	0 47	13 2	0 29	18 31	4 53	23 5	23 10	4 26	6 15	6 26			
T 9	5 26	2s12	4 52	6 53	2 24	15 19	4 1	10 5	0 1	1 26	1 35	0s 1	2 10	1 4	0 47	13 3	0 29	18 32	4 53	23 6	23 11	4 24	6 16	6 26			
F 10	5 3	8 23	5 3	7 22	2 5	15 42	4 8	10 20	0 2	1 30	1 35	0 4	2 10	1 5	0 47	13 3	0 29	18 32	4 53	23 6	23 11	4 21	6 17	6 25			
S 11	4 41	13 57	4 52	7 48	1 45	16 5	4 16	10 35	0 3	1 33	1 35	0 7	2 10	1 6	0 47	13 4	0 29	18 32	4 52	23 7	23 11	4 18	6 18	6 25			
S 12	4 18	18 35	4 24	8 11	1 26	16 27	4 23	10 50	0 3	1 36	1 35	0 10	2 10	1 7	0 47	13 4	0 29	18 32	4 52	23 7	23 11	4 15	6 19	6 25			
M13	3 55	21 59	3 40	8 31	1 7	16 49	4 31	11 5	0 4	1 39	1 35	0 13	2 10	1 8	0 47	13 5	0 29	18 33	4 52	23 8	23 11	4 12	6 20	6 25			
T 14	3 32	24 3	2 45	8 46	0 48	17 10	4 38	11 20	0 5	1 42	1 35	0 16	2 10	1 9	0 47	13 5	0 29	18 33	4 52	23 8	23 12	4 9	6 21	6 25			
W15	3 9	24 43	1 43	8 58	0 30	17 31	4 46	11 34	0 6	1 46	1 36	0 18	2 10	1 10	0 47	13 6	0 29	18 33	4 51	23 8	23 12	4 6	6 22	6 24			
T 16	2 46	24 4	0 38	9 5	0 12	17 51	4 53	11 49	0 6	1 49	1 36	0 21	2 10	1 11	0 47	13 6	0 29	18 33	4 51	23 8	23 12	4 3	6 24	6 24			
F 17	2 23	22 14	0n27	9 9	0n 4	18 11	5 0	12 4	0 7	1 52	1 36	0 24	2 10	1 12	0 47	13 7	0 29	18 34	4 51	23 8	23 12	4 1	6 25	6 24			
S 18	2 0	19 26	1 30	9 8	0 19	18 30	5 8	12 18	0 8	1 55	1 36	0 27	2 10	1 13	0 47	13 7	0 29	18 34	4 51	23 8	23 12	3 58	6 26	6 24			
S 19	1 36	15 51	2 28	9 2	0 34	18 49	5 15	12 33	0 8	1 58	1 36	0 30	2 10	1 14	0 47	13 8	0 29	18 34	4 50	23 8	23 12	3 55	6 27	6 23			
M20	1 13	11 40	3 19	8 53	0 47	19 7	5 22	12 47	0 9	2 2	1 36	0 33	2 10	1 15	0 47	13 8	0 29	18 34	4 50	23 9	23 13	3 52	6 28	6 23			
T 21	0 50	7 4	4 1	8 40	0 59	19 25	5 29	13 1	0 10	2 5	1 36	0 36	2 10	1 16	0 47	13 9	0 29	18 35	4 50	23 9	23 13	3 49	6 29	6 23			
W22	0 26	2 13	4 33	8 22	1 9	19 42	5 36	13 16	0 10	2 8	1 36	0 39	2 10	1 17	0 47	13 9	0 29	18 35	4 50	23 10	23 13	3 46	6 30	6 23			
T 23	0 3	2n44	4 53	8 2	1 19	19 58	5 43	13 30	0 11	2 11	1 36	0 42	2 10	1 18	0 47	13 10	0 29	18 35	4 49	23 11	23 13	3 43	6 31	6 22			
F 24	0s20	7 36	5 0	7 37	1 27	20 14	5 50	13 44	0 11	2 14	1 36	0 45	2 10	1 19	0 47	13 10	0 29	18 35	4 49	23 12	23 13	3 40	6 32	6 22			
S 25	0 44	12 14	4 53	7 10	1 34	20 30	5 57	13 58	0 12	2 18	1 36	0 48	2 10	1 20	0 47	13 11	0 29	18 36	4 49	23 13	23 14	3 37	6 33	6 22			
S 26	1 7	16 25	4 34	6 40	1 40	20 44	6 4	14 12	0 13	2 21	1 36	0 50	2 10	1 21	0 47	13 11	0 29	18 36	4 49	23 13	23 14	3 35	6 34	6 22			
M27	1 30	19 57	4 1	6 7	1 45	20 58	6 10	14 26	0 13	2 24	1 36	0 53	2 10	1 22	0 47	13 11	0 29	18 36	4 48	23 14	23 14	3 32	6 35	6 21			
T 28	1 54	22 36	3 16	5 32	1 48	21 11	6 17	14 40	0 14	2 27	1 36	0 56	2 10	1 23	0 47	13 12	0 29	18 36	4 48	23 14	23 14	3 29	6 36	6 21			
W29	2 17	24 11	2 21	4 54	1 51	21 23	6 23	14 53	0 15	2 30	1 36	0 59	2 10	1 23	0 47	13 12	0 29	18 37	4 48	23 14	23 14	3 26	6 37	6 21			
T 30	2s40	24n30	1n17	4n15	1n53	21s35	6s29	15s 7	0s15	2s33	1s36	1s 2	2n10	1s24	0s47	13s13	0s29	18s37	4n48	23s15	23s14	3s23	6s38	6n20			

ASTRODIENST EPHEMERIS for the year 2010

geocentric

OCTOBER 2010

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	0 38 30	7 ^h 42 ^m 55 ^s	5 ^h 54 ^m 42 ^s	25 ^h 17 ^m 22 ^s	12 ^h 12 ^m 15 ^s	10 ^h 16 ^m 52 ^s	27°R 8	7 ^h 44 ^m	28°R14	26°R17	2 ^h 52 ^m	7°R13	7 ^h 11 ^m	10 ^h 35 ^m	26°R42	F 1
S 2	0 42 26	8°41'55"	19°20'	27° 7'	12°30'	11°33'	27 ^h 1 ^m 0	7°52'	28 ^h 12 ^m	26 ^h 16 ^m	2°52'	7 ^h 13 ^m	7° 8'	10°41'	26 ^h 40 ^m	S 2
S 3	0 46 23	9°40'58"	3 ^h 02 ^m 20 ^s	28°53'	12°42'	12°14'	26°53'	7°59'	28°10'	26°15'	2°53'	7°11'	7° 4'	10°48'	26°38'	S 3
M 4	0 50 19	10°40'02"	17°44'	0 ^h 40 ^m 40 ^s	12°53'	12°56'	26°45'	8° 7'	28° 7'	26°14'	2°53'	7° 8'	7° 1'	10°55'	26°36'	M 4
T 5	0 54 16	11°39'09"	2 ^h 17 ^m 29 ^s	2°27'	13° 2'	13°37'	26°37'	8°14'	28° 5'	26°13'	2°54'	7° 2'	6°58'	11° 2'	26°34'	T 5
W 6	0 58 12	12°38'18"	17°29'	4°14'	13° 8'	14°19'	26°30'	8°21'	28° 3'	26°12'	2°55'	6°53'	6°55'	11° 8'	26°32'	W 6
T 7	1 2 9	13°37'29"	2 ^h 43 ^m 37 ^s	6° 1'	13°12'	15° 0'	26°23'	8°29'	28° 0'	26°11'	2°55'	6°42'	6°52'	11°15'	26°31'	T 7
F 8	1 6 6	14°36'42"	17°41'	7°48'	13°R14	15°42'	26°15'	8°36'	27°58'	26°10'	2°56'	6°31'	6°48'	11°22'	26°29'	F 8
S 9	1 10 2	15°35'57"	2 ^h 16 ^m 32 ^s	9°35'	13°13'	16°23'	26° 8'	8°44'	27°56'	26° 9'	2°57'	6°20'	6°45'	11°28'	26°27'	S 9
S 10	1 13 59	16°35'14"	17° 2'	11°21'	13°11'	17° 5'	26° 1'	8°51'	27°53'	26° 8'	2°58'	6°11'	6°42'	11°35'	26°26'	S 10
M 11	1 17 55	17°34'33"	1 ^h 17 ^m 4	13° 7'	13° 5'	17°47'	25°54'	8°58'	27°51'	26° 7'	2°59'	6° 4'	6°39'	11°42'	26°24'	M 11
T 12	1 21 52	18°33'54"	14°37'	14°52'	12°58'	18°29'	25°48'	9° 6'	27°49'	26° 6'	2°59'	6° 1'	6°36'	11°49'	26°23'	T 12
W 13	1 25 48	19°33'17"	27°43'	16°37'	12°48'	19°11'	25°41'	9°13'	27°47'	26° 5'	3° 0'	5°59'	6°33'	11°55'	26°21'	W 13
T 14	1 29 45	20°32'42"	10 ^h 33 ^m 23 ^s	18°21'	12°35'	19°53'	25°34'	9°20'	27°45'	26° 5'	3° 1'	5°D59'	6°29'	12° 2'	26°20'	T 14
F 15	1 33 41	21°32'08"	22°43'	20° 4'	12°20'	20°35'	25°28'	9°28'	27°42'	26° 4'	3° 2'	5°R59'	6°26'	12° 9'	26°19'	F 15
S 16	1 37 38	22°31'36"	4 ^h 44 ^m 49 ^s	21°47'	12° 3'	21°17'	25°22'	9°35'	27°40'	26° 3'	3° 3'	5°58'	6°23'	12°15'	26°17'	S 16
S 17	1 41 35	23°31'06"	16°44'	23°29'	11°43'	21°59'	25°15'	9°42'	27°38'	26° 2'	3° 4'	5°56'	6°20'	12°22'	26°16'	S 17
M 18	1 45 31	24°30'37"	28°35'	25°11'	11°22'	22°42'	25° 9'	9°49'	27°36'	26° 2'	3° 5'	5°51'	6°17'	12°29'	26°15'	M 18
T 19	1 49 28	25°30'10"	10 ^h 11 ^m 26 ^s	26°51'	10°58'	23°24'	25° 3'	9°57'	27°34'	26° 1'	3° 6'	5°43'	6°14'	12°36'	26°14'	T 19
W 20	1 53 24	26°29'45"	22°20'	28°32'	10°32'	24° 6'	24°58'	10° 4'	27°32'	26° 0'	3° 7'	5°33'	6°10'	12°42'	26°13'	W 20
T 21	1 57 21	27°29'22"	4 ^h 09 ^m 19 ^s	0 ^h 11 ^m 11 ^s	10° 4'	24°49'	24°52'	10°11'	27°30'	26° 0'	3° 8'	5°21'	6° 7'	12°49'	26°12'	T 21
F 22	2 1 17	28°29'01"	16°27'	1°50'	9°34'	25°31'	24°47'	10°18'	27°28'	25°59'	3° 9'	5° 9'	6° 4'	12°56'	26°11'	F 22
S 23	2 5 14	29°28'42"	28°43'	3°28'	9° 3'	26°14'	24°41'	10°25'	27°26'	25°59'	3°11'	4°56'	6° 1'	13° 2'	26°10'	S 23
S 24	2 9 10	0 ^h 12 ^m 28 ^s 24 ^s	11 ^h 18 ^m 9	5° 6'	8°30'	26°57'	24°36'	10°33'	27°24'	25°58'	3°12'	4°45'	5°58'	13° 9'	26° 9'	S 24
M 25	2 13 7	1°28'09"	23°45'	6°43'	7°56'	27°39'	24°31'	10°40'	27°22'	25°58'	3°13'	4°36'	5°54'	13°16'	26° 8'	M 25
T 26	2 17 3	2°27'56"	6 ^h 11 ^m 31 ^s	8°20'	7°21'	28°22'	24°27'	10°47'	27°21'	25°57'	3°14'	4°30'	5°51'	13°23'	26° 8'	T 26
W 27	2 21 0	3°27'45"	19°28'	9°56'	6°45'	29° 5'	24°22'	10°54'	27°19'	25°57'	3°16'	4°27'	5°48'	13°29'	26° 7'	W 27
T 28	2 24 57	4°27'37"	2 ^h 53 ^m 38 ^s	11°31'	6° 9'	29°48'	24°18'	11° 1'	27°17'	25°57'	3°17'	4°D26'	5°45'	13°36'	26° 7'	T 28
F 29	2 28 53	5°27'30"	16° 0'	13° 6'	5°32'	0 ^h 13 ^m 31 ^s	24°13'	11° 8'	27°15'	25°56'	3°18'	4°26'	5°42'	13°43'	26° 6'	F 29
S 30	2 32 50	6°27'26"	29°38'	14°41'	4°56'	1°14'	24° 9'	11°15'	27°14'	25°56'	3°20'	4°27'	5°39'	13°49'	26° 6'	S 30
S 31	2 36 46	7 ^h 16 ^m 27 ^s 23 ^s	13 ^h 02 ^m 32 ^s	16 ^h 16 ^m 15 ^s	4 ^h 16 ^m 19 ^s	1 ^h 17 ^m 57 ^s	24 ^h 1 ^m 6	11 ^h 12 ^m 22 ^s	27 ^h 12 ^m	25 ^h 56 ^m 56 ^s	3 ^h 21 ^m	4°R27'	5 ^h 33 ^m 35 ^s	13 ^h 45 ^m 56 ^s	26 ^h 4 ^m 5	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	3s 4	23n27	0n 8	3n35	1n53	21s46	6s35	15s20	0s16	2s36	1s36	1s 5	2n10	1s25	0s47	13s13	0s29	18s37	4n47	23s15	23s15	3s20	6s39	6n20			
S 2	3 27	21 0	1 s 4	2 53	1 54	21 56	6 40	15 34	0 17	2 39	1 36	1 8	2 10	1 26	0 47	13 13	0 29	18 37	4 47	23 15	23 15	3 17	6 40	6 20			
S 3	3 50	17 15	2 13	2 10	1 53	22 5	6 46	15 47	0 17	2 42	1 36	1 11	2 10	1 27	0 47	13 14	0 29	18 38	4 47	23 15	23 15	3 14	6 41	6 19			
M 4	4 13	12 24	3 16	1 26	1 51	22 13	6 51	16 0	0 18	2 45	1 36	1 14	2 10	1 28	0 47	13 14	0 29	18 38	4 47	23 15	23 15	3 12	6 42	6 19			
T 5	4 36	6 44	4 8	0 42	1 49	22 20	6 55	16 13	0 18	2 48	1 36	1 16	2 10	1 29	0 47	13 14	0 29	18 38	4 46	23 15	23 15	3 9	6 43	6 19			
W 6	5 0	0 35	4 44	0s 3	1 47	22 26	7 0	16 26	0 19	2 51	1 35	1 19	2 10	1 30	0 47	13 15	0 29	18 38	4 46	23 16	23 15	3 6	6 44	6 18			
T 7	5 23	5s37	5 0	0 48	1 44	22 31	7 4	16 39	0 20	2 54	1 35	1 22	2 10	1 31	0 47	13 15	0 29	18 39	4 46	23 16	23 16	3 3	6 45	6 18			
F 8	5 46	11 29	4 55	1 34	1 40	22 35	7 7	16 52	0 20	2 57	1 35	1 25	2 10	1 32	0 47	13 15	0 29	18 39	4 46	23 17	23 16	3 0	6 46	6 18			
S 9	6 8	16 34	4 30	2 19	1 36	22 38	7 11	17 4	0 21	2 59	1 35	1 28	2 10	1 33	0 47	13 16	0 29	18 39	4 45	23 17	23 16	2 57	6 47	6 17			
S 10	6 31	20 34	3 48	3 5	1 32	22 40	7 13	17 17	0 22	3 2	1 35	1 31	2 10	1 33	0 47	13 16	0 29	18 39	4 45	23 18	23 16	2 54	6 47	6 17			
M 11	6 54	23 12	2 53	3 51	1 27	22 40	7 16	17 29	0 22	3 5	1 35	1 34	2 10	1 34	0 47	13 16	0 29	18 40	4 45	23 18	23 16	2 51	6 48	6 17			
T 12	7 17	24 23	1 51	4 36	1 22	22 40	7 17	17 41	0 23	3 7	1 35	1 36	2 10	1 35	0 47	13 17	0 29	18 40	4 45	23 18	23 16	2 49	6 49	6 16			
W 13	7 39	24 9	0 44	5 21	1 17	22 38	7 18	17 54	0 23	3 10	1 35	1 39	2 10	1 36	0 47	13 17	0 29	18 40	4 44	23 18	23 17	2 46	6 50	6 16			
T 14	8 1	22 39	0n23	6 6	1 11	22 34	7 19	18 6	0 24	3 12	1 35	1 42	2 10	1 37	0 47	13 17	0 29	18 40	4 44	23 18	23 17	2 43	6 51	6 15			
F 15	8 24	20 5	1 28	6 50	1 5	22 30	7 19	18 17	0 25	3 15	1 34	1 45	2 10	1 38	0 47	13 17	0 29	18 40	4 44	23 18	23 17	2 40	6 52	6 15			
S 16	8 46	16 41	2 27	7 34	0 59	22 23	7 18	18 29	0 25	3 17	1 34	1 48	2 11	1 39	0 47	13 18	0 29	18 41	4 44	23 18	23 17	2 37	6 52	6 15			
S 17	9 8	12 40	3 18	8 18	0 53	22 16	7 17	18 41	0 26	3 20	1 34	1 50	2 11	1 39	0 47	13 18	0 29	18 41	4 43	23 18	23 17	2 34	6 53	6 14			
M 18	9 30	8 12	4 1	9 1	0 47	22 7	7 15	18 52	0 26	3 22	1 34	1 53	2 11	1 40	0 47	13 18	0 29	18 41	4 43	23 19	23 17	2 31	6 54	6 14			
T 19	9 52	3 26	4 33	9 43	0 40	21 57	7 12	19 3	0 27	3 24	1 34	1 56	2 11	1 41	0 47	13 18	0 29	18 41	4 43	23 19	23 18	2 28	6 55	6 14			
W 20	10 13	1n27	4 54	10 25	0 34	21 45	7 8	19 14	0 27	3 26	1 34	1 59	2 11	1 42	0 47	13 19	0 29	18 41	4 43	23 19	23 18	2 26	6 55	6 13			
T 21	10 35	6 20	5 2	11 7	0 27	21 31	7 4	19 25	0 28	3 28	1 34	2 2	2 11	1 43	0 47	13 19	0 29	18 42	4 42	23 20	23 18	2 23	6 56	6 13			
F 22	10 56	11 1	4 56	11 47	0 21	21 17	6 59	19 36	0 29	3 30	1 33	2 4	2 11	1 43	0 47	13 19	0 29	18 42	4 42	23 20	23 18	2 20	6 57	6 12			
S 23	11 17	15 19	4 37	12 27	0 14	21 1	6 53	19 47	0 29	3 32	1 33	2 7	2 11	1 44	0 47	13 19	0 29	18 42	4 42	23 21	23 18	2 17	6 57	6 12			
S 24	11 38	19 2	4 4	13 7	0 7	20 44	6 46	19 57	0 30	3 34	1 33	2 10	2 11	1 45	0 47	13 19	0 29	18 42	4 42	23 21	23 18	2 14	6 58	6 12			
M 25	11 59	21 55	3 19	13 45	0 0	20 25	6 38	20 8	0 30	3 36	1 33	2 12	2 11	1 46	0 47	13 19	0 29	18 43	4 42	23 21	23 18	2 11	6 59	6 11			
T 26	12 20	23 45	2 23	14 23	0s 6	20 5	6 29	20 18	0 31	3 37	1 33	2 15	2 11	1 46	0 47	13 20	0 29	18 43	4 41	23 22	23 19	2 8	6 59	6 11			
W 27	12 40	24 20	1 19	15 0	0 13	19 45	6 20	20 28	0 31	3 39	1 32	2 18	2 12	1 47	0 47	13 20	0 29	18 43	4 41	23 22	23 19	2 5	7 0	6 10			
T 28	13 0	23 34	0 10	15 36	0 20	19 23	6 10	20 38	0 32	3 41	1 32	2 20	2 12	1 48	0 47	13 20	0 29	18 43	4 41	23 22	23 19	2 3	7 0	6 10			
F 29	13 20	21 28	1s 2	16 12	0 27	19 0	5 59	20 47	0 33	3 42	1 32	2 23	2 12	1 48	0 47	13 20	0 29	18 43	4 41	23 22	23 19	2 0	7 1	6 9			
S 30	13 40	18 6	2 11	16 46	0 33	18 37	5 48	20 57	0 33	3 43	1 32	2 26	2 12	1 49	0 47	13 20	0 29	18 43	4 40	23 22	23 19	1 57	7 2	6 9			
S 31	14s 0	13n40	3s13	17s20	0s40	18s13	5s36	21s 6	0s34	3s45	1s32	2s28	2n12	1s50	0s47	13s20	0s29	18s44	4n40	23s22	23s19	1s54	7s 2	6n 9			

ASTRODIENST EPHEMERIS for the year 2010

geocentric

NOVEMBER 2010

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	2 40 43	8♈27'23	27♈42	17♈48	3♈43	2♈40	24♈ 2	11♈29	27♈10	25♈56	3♈22	4♈25	5♈32	14♈ 3	26♈ 5	M 1
T 2	2 44 39	9♈27'25	12♈ 7	19♈21	3♈ 8	3♈23	23♈58	11♈35	27♈ 9	25♈55	3♈24	4♈21	5♈29	14♈10	26♈ 5	T 2
W 3	2 48 36	10♈27'30	26♈45	20♈54	2♈34	4♈ 7	23♈55	11♈42	27♈ 7	25♈55	3♈25	4♈15	5♈26	14♈16	26♈ 4	W 3
T 4	2 52 32	11♈27'36	11♈28	22♈26	2♈ 1	4♈50	23♈52	11♈49	27♈ 6	25♈55	3♈27	4♈ 7	5♈23	14♈23	26♈ 4	T 4
F 5	2 56 29	12♈27'44	26♈11	23♈58	1♈29	5♈34	23♈49	11♈56	27♈ 4	25♈55	3♈28	3♈59	5♈20	14♈30	26♈ 4	F 5
S 6	3 0 26	13♈27'54	10♈45	25♈29	0♈58	6♈17	23♈46	12♈ 2	27♈ 3	25♈55	3♈30	3♈51	5♈16	14♈36	26♈ 4	S 6
S 7	3 4 22	14♈28'07	25♈ 3	27♈ 0	0♈30	7♈ 1	23♈44	12♈ 9	27♈ 1	25♈55	3♈31	3♈44	5♈13	14♈43	26♈ 4	S 7
M 8	3 8 19	15♈28'21	8♈59	28♈31	0♈ 3	7♈44	23♈42	12♈16	27♈ 0	25♈55	3♈33	3♈39	5♈10	14♈50	26♈ 4	M 8
T 9	3 12 15	16♈28'36	22♈31	0♈ 1	29♈39	8♈28	23♈39	12♈22	26♈59	25♈55	3♈34	3♈36	5♈ 7	14♈57	26♈ 4	T 9
W10	3 16 12	17♈28'53	5♈38	1♈31	29♈16	9♈12	23♈38	12♈29	26♈57	25♈55	3♈36	3♈36	5♈ 4	15♈ 3	26♈ 5	W10
T11	3 20 8	18♈29'12	18♈21	3♈ 0	28♈56	9♈56	23♈36	12♈35	26♈56	25♈55	3♈38	3♈37	5♈ 0	15♈10	26♈ 5	T11
F12	3 24 5	19♈29'32	0♈45	4♈29	28♈38	10♈39	23♈34	12♈42	26♈55	25♈55	3♈39	3♈38	4♈57	15♈17	26♈ 5	F12
S13	3 28 2	20♈29'54	12♈53	5♈58	28♈22	11♈23	23♈33	12♈48	26♈54	25♈55	3♈41	3♈39	4♈54	15♈23	26♈ 6	S13
S14	3 31 58	21♈30'16	24♈51	7♈26	28♈ 9	12♈ 7	23♈32	12♈55	26♈53	25♈56	3♈43	3♈39	4♈51	15♈30	26♈ 6	S14
M15	3 35 55	22♈30'41	6♈43	8♈53	27♈58	12♈51	23♈31	13♈ 1	26♈51	25♈56	3♈44	3♈38	4♈48	15♈37	26♈ 7	M15
T16	3 39 51	23♈31'06	18♈35	10♈20	27♈50	13♈36	23♈30	13♈ 7	26♈50	25♈56	3♈46	3♈35	4♈45	15♈44	26♈ 7	T16
W17	3 43 48	24♈31'33	0♈51	11♈47	27♈44	14♈20	23♈30	13♈13	26♈50	25♈56	3♈48	3♈30	4♈41	15♈50	26♈ 8	W17
T18	3 47 44	25♈32'01	12♈34	13♈12	27♈40	15♈ 4	23♈30	13♈19	26♈49	25♈57	3♈50	3♈24	4♈38	15♈57	26♈ 9	T18
F19	3 51 41	26♈32'31	24♈48	14♈37	27♈D39	15♈48	23♈D30	13♈25	26♈48	25♈57	3♈51	3♈17	4♈35	16♈ 4	26♈10	F19
S20	3 55 37	27♈33'02	7♈15	16♈ 2	27♈41	16♈33	23♈30	13♈32	26♈47	25♈58	3♈53	3♈11	4♈32	16♈10	26♈10	S20
S21	3 59 34	28♈33'35	19♈56	17♈25	27♈45	17♈17	23♈30	13♈37	26♈46	25♈58	3♈55	3♈ 5	4♈29	16♈17	26♈11	S21
M22	4 3 30	29♈34'09	2♈50	18♈48	27♈51	18♈ 1	23♈31	13♈43	26♈45	25♈59	3♈57	3♈ 0	4♈26	16♈24	26♈12	M22
T23	4 7 27	0♈34'44	15♈58	20♈ 9	28♈ 0	18♈46	23♈32	13♈49	26♈45	25♈59	3♈59	2♈57	4♈22	16♈31	26♈13	T23
W24	4 11 24	1♈35'21	29♈19	21♈29	28♈10	19♈30	23♈33	13♈55	26♈44	26♈ 0	4♈ 1	2♈D56	4♈19	16♈37	26♈14	W24
T25	4 15 20	2♈36'00	12♈50	22♈48	28♈23	20♈15	23♈34	14♈ 1	26♈43	26♈ 0	4♈ 3	2♈56	4♈16	16♈44	26♈16	T25
F26	4 19 17	3♈36'40	26♈32	24♈ 6	28♈39	21♈ 0	23♈35	14♈ 6	26♈43	26♈ 1	4♈ 5	2♈57	4♈13	16♈51	26♈17	F26
S27	4 23 13	4♈37'22	10♈24	25♈21	28♈56	21♈45	23♈37	14♈12	26♈42	26♈ 2	4♈ 6	2♈59	4♈10	16♈57	26♈18	S27
S28	4 27 10	5♈38'05	24♈23	26♈35	29♈15	22♈29	23♈39	14♈18	26♈42	26♈ 2	4♈ 8	3♈ 0	4♈ 6	17♈ 4	26♈19	S28
M29	4 31 6	6♈38'50	8♈30	27♈46	29♈36	23♈14	23♈41	14♈23	26♈42	26♈ 3	4♈10	3♈ 1	4♈ 3	17♈11	26♈21	M29
T30	4 35 3	7♈39'36	22♈43	28♈54	29♈59	23♈59	23♈43	14♈28	26♈41	26♈ 4	4♈12	3♈ 0	4♈ 0	17♈18	26♈22	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	14s19	8n25	4s 6	17s53	0s47	17s49	5s23	21s15	0s34	3s46	1s31	2s31	2n12	1s50	0s47	13s20	0s29	18s44	4n40	23s22	23s19	1s51	7s 3	6n 8			
T 2	14 39	2 39	4 43	18 25	0 53	17 24	5 10	21 24	0 35	3 47	1 31	2 33	2 12	1 51	0 46	13 20	0 29	18 44	4 40	23 22	23 19	1 48	7 3	6 8			
W 3	14 57	3s21	5 3	18 56	0 59	16 59	4 56	21 33	0 35	3 48	1 31	2 36	2 12	1 51	0 46	13 20	0 29	18 44	4 40	23 22	23 20	1 45	7 3	6 7			
T 4	15 16	9 11	5 3	19 26	1 6	16 35	4 42	21 41	0 36	3 49	1 31	2 38	2 12	1 52	0 46	13 20	0 29	18 44	4 39	23 22	23 20	1 43	7 4	6 6			
F 5	15 35	14 30	4 43	19 55	1 12	16 10	4 27	21 50	0 36	3 50	1 30	2 41	2 13	1 53	0 46	13 20	0 29	18 45	4 39	23 23	23 20	1 40	7 4	6 7			
S 6	15 53	18 56	4 5	20 24	1 18	15 45	4 13	21 58	0 37	3 51	1 30	2 43	2 13	1 53	0 46	13 20	0 29	18 45	4 39	23 23	23 20	1 37	7 5	6 6			
S 7	16 11	22 8	3 12	20 51	1 24	15 21	3 58	22 6	0 37	3 52	1 30	2 46	2 13	1 54	0 46	13 20	0 29	18 45	4 39	23 23	23 20	1 34	7 5	6 6			
M 8	16 28	23 55	2 9	21 17	1 30	14 58	3 42	22 13	0 38	3 53	1 30	2 48	2 13	1 54	0 46	13 20	0 29	18 45	4 38	23 23	23 20	1 31	7 6	6 5			
T 9	16 46	24 13	0 59	21 42	1 35	14 35	3 27	22 21	0 38	3 53	1 29	2 51	2 13	1 55	0 46	13 20	0 29	18 45	4 38	23 23	23 20	1 28	7 6	6 5			
W10	17 3	23 8	0n11	22 6	1 41	14 12	3 12	22 28	0 39	3 54	1 29	2 53	2 13	1 55	0 46	13 20	0 29	18 45	4 38	23 23	23 20	1 25	7 6	6 4			
T11	17 20	20 52	1 19	22 29	1 46	13 51	2 57	22 35	0 39	3 54	1 29	2 55	2 13	1 56	0 46	13 20	0 29	18 46	4 38	23 23	23 21	1 23	7 6	6 4			
F12	17 36	17 41	2 22	22 51	1 51	13 30	2 41	22 42	0 40	3 55	1 29	2 58	2 14	1 56	0 46	13 20	0 29	18 46	4 38	23 23	23 21	1 20	7 7	6 4			
S13	17 52	13 48	3 17	23 12	1 56	13 10	2 26	22 49	0 40	3 55	1 28	3 0	2 14	1 56	0 46	13 20	0 29	18 46	4 37	23 23	23 21	1 17	7 7	6 3			
S14	18 8	9 26	4 2	23 32	2 0	12 52	2 11	22 55	0 41	3 55	1 28	3 3	2 14	1 57	0 46	13 20	0 29	18 46	4 37	23 23	23 21	1 14	7 7	6 3			
M15	18 24	4 45	4 37	23 50	2 5	12 34	1 57	23 1	0 41	3 55	1 28	3 5	2 14	1 57	0 46	13 20	0 29	18 46	4 37	23 23	23 21	1 11	7 7	6 2			
T16	18 39	0n 5	5 0	24 7	2 9	12 17	1 42	23 7	0 42	3 55	1 28	3 7	2 14	1 58	0 46	13 20	0 29	18 46	4 37	23 23	23 21	1 8	7 8	6 2			
W17	18 54	4 56	5 10	24 23	2 13	12 2	1 28	23 13	0 42	3 55	1 27	3 9	2 14	1 58	0 46	13 20	0 29	18 46	4 37	23 23	23 21	1 6	7 8	6 1			
T18	19 9	9 40	5 6	24 38	2 16	11 48	1 14	23 19	0 43	3 55	1 27	3 12	2 15	1 58	0 46	13 20	0 29	18 47	4 36	23 24	23 21	1 3	7 8	6 1			
F19	19 23	14 5	4 49	24 51	2 19	11 35	1 0	23 24	0 43	3 55	1 27	3 14	2 15	1 59	0 46	13 19	0 29	18 47	4 36	23 24	23 22	1 0	7 8	6 1			
S20	19 37	17 59	4 17	25 3	2 22	11 23	0 47	23 29	0 44	3 54	1 27	3 16	2 15	1 59	0 46	13 19	0 29	18 47	4 36	23 24	23 22	0 57	7 8	6 0			
S21	19 50	21 8	3 33	25 14	2 24	11 12	0 34	23 34	0 44	3 54	1 26	3 18	2 15	1 59	0 46	13 19	0 29	18 47	4 36	23 24	23 22	0 54	7 8	6 0			
M22	20 3	23 17	2 37	25 24	2 26	11 2	0 21	23 38	0 45	3 54	1 26	3 20	2 15	1 59	0 46	13 19	0 29	18 47	4 36	23 24	23 22	0 51	7 8	5 59			
T23	20 16	24 13	1 31	25 32	2 28	10 54	0 9	23 43	0 45	3 53	1 26	3 22	2 15	2 0	0 46	13 19	0 29	18 47	4 36	23 24	23 22	0 49	7 8	5 59			
W24	20 29	23 46	0 20	25 39	2 29	10 47	0n 3	23 47	0 46	3 52	1 26	3 24	2 16	2 0	0 46	13 19	0 29	18 47	4 35	23 24	23 22	0 46	7 8	5 59			
T25	20 41	21 55	0s54	25 44	2 30	10 41	0 14	23 51	0 46	3 52	1 25	3 26	2 16	2 0	0 46	13 18	0 29	18 47	4 35	23 24	23 22	0 43	7 8	5 58			
F26	20 52	18 47	2 6	25 48	2 30	10 36	0 26	23 54	0 47	3 51	1 25	3 28	2 16	2 0	0 46	13 18	0 29	18 48	4 35	23 24	23 22	0 40	7 8	5 58			
S27	21 4	14 34	3 11	25 50	2 29	10 32	0 36	23 58	0 47	3 50	1 25	3 30	2 16	2 0	0 46	13 18	0 29	18 48	4 35	23 24	23 22	0 37	7 8	5 57			
S28	21 15	9 32	4 6	25 51	2 28	10 29	0 47	24 1	0 47	3 49	1 25	3 32	2 16	2 1	0 46	13 18	0 29	18 48	4 35	23 24	23 22	0 34	7 8	5 57			
M29	21 25	3 57	4 46	25 51	2 26	10 27	0 57	24 4	0 48	3 48	1 24	3 34	2 17	2 1	0 46	13 17	0 29	18 48	4 35	23 24	23 23	0 31	7 8	5 57			
T30	21s35	1s51	5s 9	25s49	2s23	10s26	1n 6	24s 6	0s48	3s47	1s24	3s36	2n17	2s 1	0s45	13s17	0s29	18s48	4n34	23s24	23s23	0s29	7s 8	5n56			

ASTRODIENST EPHEMERIS for the year 2010
geocentric

DECEMBER 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	4 39 0	8°40'24	6°59	29°59	0°24	24°44	23°45	14°34	26°R41	26°4	4°14	2°R58	3°57	17°24	26°24	W 1
T 2	4 42 56	9°41'14	21°16	1°1	0°51	25°29	23°48	14°39	26°H41	26° 5	4°16	2°55	3°54	17°31	26°25	T 2
F 3	4 46 53	10°42'04	5°29	1°59	1°19	26°14	23°51	14°44	26°41	26° 6	4°18	2°52	3°51	17°38	26°27	F 3
S 4	4 50 49	11°42'57	19°34	2°52	1°50	26°59	23°54	14°49	26°40	26° 7	4°20	2°48	3°47	17°44	26°29	S 4
S 5	4 54 46	12°43'50	3°27	3°40	2°21	27°44	23°57	14°54	26°40	26° 8	4°22	2°46	3°44	17°51	26°30	S 5
M 6	4 58 42	13°44'45	17° 5	4°22	2°54	28°30	24° 0	14°59	26°D40	26° 9	4°24	2°44	3°41	17°58	26°32	M 6
T 7	5 2 39	14°45'41	0°24	4°58	3°29	29°15	24° 4	15° 4	26°40	26°10	4°26	2°D43	3°38	18° 5	26°34	T 7
W 8	5 6 35	15°46'37	13°24	5°25	4° 5	0°30	24° 8	15° 9	26°40	26°11	4°29	2°44	3°35	18°11	26°36	W 8
T 9	5 10 32	16°47'35	26° 6	5°45	4°42	0°46	24°12	15°14	26°41	26°12	4°31	2°45	3°32	18°18	26°38	T 9
F 10	5 14 29	17°48'33	8°30	5°55	5°21	1°31	24°16	15°19	26°41	26°13	4°33	2°46	3°28	18°25	26°40	F 10
S 11	5 18 25	18°49'32	20°39	5°R55	6° 0	2°17	24°20	15°23	26°41	26°14	4°35	2°47	3°25	18°31	26°42	S 11
S 12	5 22 22	19°50'32	2°39	5°44	6°41	3° 2	24°25	15°28	26°41	26°15	4°37	2°49	3°22	18°38	26°44	S 12
M13	5 26 18	20°51'32	14°32	5°22	7°24	3°48	24°30	15°32	26°42	26°16	4°39	2°49	3°19	18°45	26°46	M13
T 14	5 30 15	21°52'32	26°25	4°48	8° 7	4°33	24°35	15°37	26°42	26°18	4°41	2°R49	3°16	18°52	26°49	T 14
W15	5 34 11	22°53'33	8°20	4° 3	8°51	5°19	24°40	15°41	26°42	26°19	4°43	2°49	3°12	18°58	26°51	W15
T 16	5 38 8	23°54'35	20°24	3° 8	9°36	6° 5	24°45	15°45	26°43	26°20	4°45	2°48	3° 9	19° 5	26°53	T 16
F 17	5 42 4	24°55'37	2°40	2° 2	10°23	6°51	24°50	15°49	26°43	26°21	4°48	2°47	3° 6	19°12	26°56	F 17
S 18	5 46 1	25°56'39	15°12	0°49	11°10	7°36	24°56	15°53	26°44	26°23	4°50	2°46	3° 3	19°19	26°58	S 18
S 19	5 49 58	26°57'43	28° 2	29°29	11°58	8°22	25° 2	15°57	26°45	26°24	4°52	2°45	3° 0	19°25	27° 1	S 19
M20	5 53 54	27°58'46	11°11	28° 7	12°47	9° 8	25° 8	16° 1	26°45	26°25	4°54	2°44	2°57	19°32	27° 3	M20
T 21	5 57 51	28°59'50	24°40	26°44	13°37	9°54	25°14	16° 5	26°46	26°27	4°56	2°44	2°53	19°39	27° 6	T 21
W22	6 1 47	0°55	8°25	25°24	14°28	10°40	25°21	16° 8	26°47	26°28	4°58	2°D44	2°50	19°45	27° 8	W22
T 23	6 5 44	1° 2'00	22°26	24° 9	15°19	11°26	25°27	16°12	26°48	26°30	5° 0	2°44	2°47	19°52	27°11	T 23
F 24	6 9 40	2° 3'06	6°27	23° 0	16°12	12°12	25°34	16°15	26°49	26°31	5° 3	2°44	2°44	19°59	27°14	F 24
S 25	6 13 37	3° 4'12	20°54	22° 1	17° 5	12°58	25°41	16°19	26°50	26°33	5° 5	2°R44	2°41	20° 6	27°17	S 25
S 26	6 17 33	4° 5'18	5°14	21°11	17°58	13°44	25°48	16°22	26°51	26°34	5° 7	2°44	2°38	20°12	27°19	S 26
M27	6 21 30	5° 6'26	19°32	20°32	18°53	14°31	25°55	16°25	26°52	26°36	5° 9	2°44	2°34	20°19	27°22	M27
T 28	6 25 27	6° 7'34	3°46	20° 4	19°48	15°17	26° 2	16°28	26°53	26°37	5°11	2°D44	2°31	20°26	27°25	T 28
W29	6 29 23	7° 8'42	17°53	19°46	20°43	16° 3	26°10	16°31	26°54	26°39	5°13	2°44	2°28	20°32	27°28	W29
T 30	6 33 20	8° 9'51	1°50	19°D38	21°40	16°50	26°17	16°34	26°55	26°41	5°16	2°44	2°25	20°39	27°31	T 30
F 31	6 37 16	9°11'01	15°38	19°40	22°37	17°36	26°H25	16°37	26°56	26°42	5°18	2°45	2°22	20°46	27°34	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	21s45	7s34	5s13	25s46	2s20	10s26	1n16	24s 9	0s49	3s46	1s24	3s38	2n17	2s 1	0s45	13s17
T 2	21 54	12 54	4 58	25 42	2 16	10 27	1 24	24 11	0 49	3 44	1 23	3 40	2 17	2 1	0 45	13 17
F 3	22 3	17 30	4 25	25 36	2 11	10 29	1 33	24 13	0 50	3 43	1 23	3 42	2 17	2 1	0 45	13 16
S 4	22 11	21 5	3 36	25 29	2 4	10 32	1 41	24 14	0 50	3 42	1 23	3 43	2 18	2 1	0 45	13 16
S 5	22 19	23 22	2 34	25 20	1 57	10 35	1 49	24 15	0 50	3 40	1 23	3 45	2 18	2 1	0 45	13 16
M 6	22 27	24 13	1 25	25 10	1 49	10 39	1 56	24 17	0 51	3 38	1 22	3 47	2 18	2 1	0 45	13 15
T 7	22 34	23 39	0 13	25 0	1 39	10 44	2 4	24 17	0 51	3 37	1 22	3 49	2 18	2 1	0 45	13 15
W 8	22 41	21 47	0n59	24 48	1 28	10 50	2 10	24 18	0 52	3 35	1 22	3 50	2 19	2 1	0 45	13 15
T 9	22 47	18 52	2 6	24 34	1 16	10 56	2 17	24 18	0 52	3 33	1 22	3 52	2 19	2 1	0 45	13 14
F 10	22 53	15 10	3 5	24 20	1 2	11 3	2 23	24 18	0 52	3 31	1 21	3 53	2 19	2 1	0 45	13 14
S 11	22 58	10 53	3 55	24 5	0 47	11 11	2 29	24 18	0 53	3 29	1 21	3 55	2 19	2 0	0 45	13 14
S 12	23 3	6 16	4 34	23 50	0 31	11 19	2 34	24 17	0 53	3 27	1 21	3 57	2 19	2 0	0 45	13 13
M13	23 7	1 28	5 1	23 33	0 13	11 28	2 39	24 16	0 53	3 25	1 21	3 58	2 20	2 0	0 45	13 13
T 14	23 11	3n23	5 15	23 16	0n 5	11 37	2 44	24 15	0 54	3 23	1 20	3 59	2 20	2 0	0 45	13 12
W15	23 15	8 8	5 15	22 58	0 25	11 47	2 49	24 14	0 54	3 21	1 20	4 1	2 20	2 0	0 45	13 12
T 16	23 18	12 38	5 2	22 39	0 45	11 57	2 53	24 12	0 55	3 18	1 20	4 2	2 20	2 0	0 45	13 12
F 17	23 20	16 42	4 35	22 20	1 5	12 7	2 57	24 10	0 55	3 16	1 20	4 4	2 21	1 59	0 45	13 11
S 18	23 23	20 7	3 54	22 1	1 25	12 18	3 1	24 8	0 55	3 14	1 19	4 5	2 21	1 59	0 45	13 11
S 19	23 24	22 39	3 1	21 43	1 44	12 30	3 5	24 6	0 56	3 11	1 19	4 6	2 21	1 59	0 45	13 10
M20	23 25	24 3	1 57	21 24	2 1	12 41	3 8	24 3	0 56	3 8	1 19	4 7	2 21	1 58	0 45	13 10
T 21	23 26	24 4	0 45	21 7	2 17	12 53	3 11	24 0	0 56	3 6	1 19	4 9	2 22	1 58	0 45	13 9
W22	23 26	22 39	0s32	20 51	2 31	13 5	3 14	23 57	0 57	3 3	1 18	4 10	2 22	1 58	0 45	13 9
T 23	23 26	19 49	1 47	20 36	2 43	13 18	3 16	23 53	0 57	3 0	1 18	4 11	2 22	1 57	0 45	13 8
F 24	23 25	15 46	2 57	20 24	2 52	13 30	3 19	23 50	0 57	2 57	1 18	4 12	2 22	1 57	0 45	13 8
S 25	23 24	10 47	3 57	20 14	2 58	13 43	3 21	23 46	0 57	2 54	1 18	4 13	2 23	1 57	0 44	13 7
S 26	23 22	5 13	4 41	20 7	3 3	13 56	3 23	23 41	0 58	2 51	1 17	4 14	2 23	1 56	0 44	13 7
M27	23 20	0s36	5 9	20 2	3 5	14 9	3 24	23 37	0 58	2 48	1 17	4 15	2 23	1 56	0 44	13 6
T 28	23 18	6 21	5 17	20 0	3 5	14 23	3 26	23 32	0 58	2 45	1 17	4 16	2 23	1 55	0 44	13 6
W29	23 15	11 44	5 6	20 0	3 3	14 36	3 27	23 27	0 59	2 42	1 17	4 17	2 24	1 55	0 44	13 5
T 30	23 11	16 27	4 37	20 2	3 0	14 49	3 28	23 21	0 59	2 39	1 16	4 18	2 24	1 54	0 44	13 4
F 31	23s 7	20s14	3s53	20s 7	2n56	15s 3	3n29	23s15	0s59	2s35	1s16	4s19	2n24	1s54	0s44	13s 4

Julian Day Number = 2455531.5, Delta T = 66.30 sec
Ecliptic obliquity = 23°26'17", Nutation = 0°00'16", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°53'34", Lahiri = 24°00'34"