



Astrodienst Ephemeris Tables for the year 2007

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 2007

geocentric

JANUARY 2007

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 41 5	10°31'027	7°11'25	6°31'31	26°3'3	18°26'26	8°12'12	24°R28	11°32'32	18°8'7	27°2'2	18°R51	19°40'40	8°5'5	7°47'47	M 1	
T 2	6 45 1	11°11'35	21°18	8°6'6	27°19	19°9'9	8°24'24	24°Q25	11°34'34	18°9'9	27°4'4	18°40'40	19°37'37	8°12'12	7°51'51	T 2	
W 3	6 48 58	12°12'43	4°58'58	9°42'42	28°34'34	19°53'53	8°36'36	24°22'22	11°36'36	18°11'11	27°6'6	18°28'28	19°34'34	8°19'19	7°56'56	W 3	
T 4	6 52 54	13°13'51	18°23'23	11°18'18	29°49'49	20°36'36	8°48'48	24°19'19	11°39'39	18°13'13	27°8'8	18°17'17	19°31'31	8°25'25	8°0'0	T 4	
F 5	6 56 51	14°14'59	1°30'30	12°54'54	1°44'44	21°20'20	9°1'1	24°16'16	11°41'41	18°15'15	27°10'10	18°7'7	19°27'27	8°32'32	8°5'5	F 5	
S 6	7 0 47	15°16'08	14°17'17	14°31'31	2°19'19	22°3'3	9°13'13	24°13'13	11°43'43	18°17'17	27°12'12	17°59'59	19°24'24	8°39'39	8°9'9	S 6	
S 7	7 4 44	16°17'16	26°46'46	16°8'8	3°34'34	22°47'47	9°25'25	24°9'9	11°45'45	18°19'19	27°15'15	17°54'54	19°21'21	8°45'45	8°14'14	S 7	
M 8	7 8 40	17°18'24	8°19'19	17°46'46	4°50'50	23°31'31	9°37'37	24°6'6	11°48'48	18°21'21	27°17'17	17°52'52	19°18'18	8°52'52	8°18'18	M 8	
T 9	7 12 37	18°19'32	20°59'59	19°24'24	6°5'5	24°14'14	9°48'48	24°3'3	11°50'50	18°23'23	27°19'19	17°D51	19°15'15	8°59'59	8°23'23	T 9	
W10	7 16 34	19°20'40	2°50'50	21°2'2	7°20'20	24°58'58	10°0'0	23°59'59	11°52'52	18°25'25	27°21'21	17°52'52	19°12'12	9°5'5	8°28'28	W10	
T 11	7 20 30	20°21'49	14°38'38	22°41'41	8°35'35	25°42'42	10°12'12	23°56'56	11°55'55	18°27'27	27°23'23	17°53'53	19°8'8	9°12'12	8°32'32	T 11	
F 12	7 24 27	21°22'57	26°28'28	24°20'20	9°50'50	26°26'26	10°24'24	23°52'52	11°57'57	18°29'29	27°25'25	17°R53	19°5'5	9°18'18	8°37'37	F 12	
S 13	7 28 23	22°24'05	8°12'25	26°0'0	11°5'5	27°10'10	10°35'35	23°48'48	12°0'0	18°31'31	27°27'27	17°51'51	19°2'2	9°25'25	8°42'42	S 13	
S 14	7 32 20	23°25'13	20°36'36	27°40'40	12°20'20	27°54'54	10°47'47	23°44'44	12°2'2	18°33'33	27°29'29	17°48'48	18°59'59	9°32'32	8°46'46	S 14	
M15	7 36 16	24°26'21	3°3'3	29°20'20	13°35'35	28°38'38	10°58'58	23°41'41	12°5'5	18°35'35	27°31'31	17°42'42	18°56'56	9°38'38	8°51'51	M15	
T 16	7 40 13	25°27'29	15°50'50	1°44'44	14°50'50	29°22'22	11°10'10	23°37'37	12°7'7	18°37'37	27°33'33	17°34'34	18°53'53	9°45'45	8°56'56	T 16	
W17	7 44 9	26°28'37	28°59'59	2°43'43	16°5'5	0°3'6	11°21'21	23°33'33	12°10'10	18°39'39	27°35'35	17°25'25	18°49'49	9°52'52	9°0'0	W17	
T 18	7 48 6	27°29'45	12°30'30	4°24'24	17°20'20	0°50'50	11°32'32	23°29'29	12°12'12	18°41'41	27°37'37	17°15'15	18°46'46	9°58'58	9°5'5	T 18	
F 19	7 52 3	28°30'51	26°21'21	6°7'7	18°35'35	1°34'34	11°43'43	23°24'24	12°15'15	18°44'44	27°39'39	17°7'7	18°43'43	10°5'5	9°10'10	F 19	
S 20	7 55 59	29°31'58	10°27'27	7°49'49	19°50'50	2°18'18	11°54'54	23°20'20	12°18'18	18°46'46	27°41'41	17°0'0	18°40'40	10°12'12	9°15'15	S 20	
S 21	7 59 56	0°33'03	24°44'44	9°31'31	21°5'5	3°2'2	12°5'5	23°16'16	12°21'21	18°48'48	27°43'43	16°56'56	18°37'37	10°18'18	9°19'19	S 21	
M22	8 3 52	1°34'08	9°11'11	11°14'14	22°20'20	3°47'47	12°16'16	23°12'12	12°23'23	18°50'50	27°45'45	16°54'54	18°33'33	10°25'25	9°24'24	M22	
T 23	8 7 49	2°35'12	23°30'30	12°57'57	23°35'35	4°31'31	12°27'27	23°7'7	12°26'26	18°52'52	27°47'47	16°D54	18°30'30	10°32'32	9°29'29	T 23	
W24	8 11 45	3°36'15	7°19'19	14°39'39	24°50'50	5°15'15	12°38'38	23°3'3	12°29'29	18°55'55	27°49'49	16°55'55	18°27'27	10°38'38	9°34'34	W24	
T 25	8 15 42	4°37'16	22°4'4	16°22'22	26°5'5	6°0'0	12°48'48	22°58'58	12°32'32	18°57'57	27°51'51	16°56'56	18°24'24	10°45'45	9°39'39	T 25	
F 26	8 19 39	5°38'17	6°10'10	18°4'4	27°19'19	6°44'44	12°59'59	22°54'54	12°35'35	18°59'59	27°53'53	16°R57	18°21'21	10°52'52	9°43'43	F 26	
S 27	8 23 35	6°39'17	20°7'7	19°45'45	28°34'34	7°28'28	13°9'9	22°49'49	12°38'38	19°1'1	27°55'55	16°56'56	18°18'18	10°58'58	9°48'48	S 27	
S 28	8 27 32	7°40'15	3°11'11	21°26'26	29°49'49	8°13'13	13°20'20	22°45'45	12°41'41	19°3'3	27°56'56	16°53'53	18°14'14	11°5'5	9°53'53	S 28	
M29	8 31 28	8°41'13	17°32'32	23°5'5	1°11'11	8°57'57	13°30'30	22°40'40	12°44'44	19°6'6	27°58'58	16°49'49	18°11'11	11°12'12	9°58'58	M29	
T 30	8 35 25	9°42'09	0°58'58	24°44'44	2°18'18	9°42'42	13°40'40	22°35'35	12°47'47	19°8'8	28°0'0	16°43'43	18°8'8	11°18'18	10°2'2	T 30	
W31	8 39 21	10°43'04	14°51'51	26°20'20	3°11'11	10°26'26	13°45'45	22°31'31	12°45'45	19°10'10	28°2'2	16°43'43	18°11'11	11°25'25	10°7'7	W31	

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	23 s 3	26n25	4n56	24s45	1s28	22s15	1s20	23s14	0s18	20s59	0n42	14n30	1n12	7s56	0s45	15s37	0s13
T 2	22 58	28 11	5 2	24 44	1 32	22 2	1 21	23 19	0 19	21 1	0 42	14 31	1 12	7 55	0 45	15 36	0 13
W 3	22 53	28 11	4 50	24 42	1 37	21 48	1 23	23 23	0 19	21 3	0 42	14 33	1 13	7 54	0 45	15 36	0 13
T 4	22 47	26 30	4 22	24 38	1 41	21 33	1 24	23 26	0 20	21 5	0 42	14 34	1 13	7 54	0 45	15 35	0 13
F 5	22 41	23 25	3 41	24 33	1 45	21 18	1 25	23 30	0 21	21 7	0 42	14 35	1 13	7 53	0 45	15 34	0 13
S 6	22 34	19 14	2 49	24 27	1 48	21 2	1 26	23 33	0 21	21 9	0 42	14 36	1 13	7 52	0 45	15 34	0 13
S 7	22 27	14 19	1 50	24 19	1 52	20 46	1 27	23 37	0 22	21 11	0 42	14 37	1 13	7 51	0 45	15 33	0 13
M 8	22 19	8 56	0 47	24 9	1 55	20 29	1 28	23 40	0 23	21 12	0 42	14 39	1 14	7 50	0 45	15 33	0 13
T 9	22 11	3 19	0s17	23 59	1 57	20 11	1 29	23 42	0 23	21 14	0 42	14 40	1 14	7 49	0 45	15 32	0 13
W10	22 3	2s20	1 19	23 46	2 0	19 53	1 30	23 45	0 24	21 16	0 42	14 41	1 14	7 48	0 45	15 31	0 13
T 11	21 54	7 54	2 19	23 32	2 2	19 35	1 31	23 47	0 25	21 18	0 42	14 43	1 14	7 47	0 45	15 31	0 13
F 12	21 44	13 11	3 12	23 17	2 4	19 15	1 31	23 49	0 25	21 19	0 42	14 44	1 14	7 46	0 45	15 30	0 13
S 13	21 35	18 3	3 57	23 0	2 5	18 55	1 32	23 51	0 26	21 21	0 42	14 45	1 14	7 45	0 45	15 30	0 13
S 14	21 25	22 17	4 33	22 41	2 6	18 35	1 33	23 52	0 27	21 23	0 42	14 47	1 15	7 44	0 45	15 29	0 13
M15	21 14	25 37	4 57	22 21	2 6	18 14	1 33	23 53	0 27	21 24	0 42	14 48	1 15	7 43	0 45	15 28	0 13
T 16	21 3	27 46	5 6	21 59	2 6	17 53	1 34	23 54	0 28	21 26	0 42	14 50	1 15	7 42	0 45	15 28	0 13
W17	20 52	28 27	5 0	21 36	2 6	17 31	1 34	23 55	0 29	21 27	0 42	14 51	1 15	7 41	0 45	15 27	0 13
T 18	20 40	27 28	4 38	21 11	2 5	17 8	1 34	23 56	0 29	21 29	0 42	14 53	1 15	7 40	0 45	15 26	0 13
F 19	20 28	24 47	3 58	20 45	2 4	16 45	1 34	23 56	0 30	21 30	0 42	14 54	1 15	7 39	0 45	15 26	0 13
S 20	20 15	20 34	3 4	20 17	2 2	16 22	1 35	23 56	0 31	21 32	0 42	14 56	1 16	7 38	0 45	15 25	0 13
S 21	20 2	15 7	1 57	19 47	2 0	15 58	1 35	23 56	0 31	21 33	0 42	14 57	1 16	7 37	0 45	15 24	0 14
M22	19 49	8 48	0 42	19 17	1 57	15 34	1 35	23 55	0 32	21 35	0 42	14 59	1 16	7 36	0 45	15 24	0 14
T 23	19 35	2 2	0n36	18 44	1 53	15 9	1 35	23 54	0 33	21 36	0 42	15 1	1 16	7 35	0 45	15 23	0 14
W24	19 21	4n48	1 51	18 11	1 49	14 44	1 35	23 53	0 33	21 37	0 42	15 2	1 16	7 34	0 45	15 22	0 14
T 25	19 7	11 22	2 59	17 35	1 44	14 18	1 34	23 52	0 34	21 39	0 42	15 4	1 16	7 33	0 45	15 22	0 14
F 26	18 52	17 17	3 55	16 59	1 39	13 53	1 34	23 51	0 35	21 40	0 42	15 5	1 16	7 32	0 45	15 21	0 14
S 27	18 37	22 13	4 37	16 22	1 33	13 26	1 34	23 49	0 35	21 41	0 42	15 7	1 17	7 30	0 45	15 20	0 14
S 28	18 21	25 53	5 3	15 43	1 26	13 0	1 34	23 47	0 36	21 43	0 42	15 9	1 17	7 29	0 45	15 20	0 14
M29	18 5	28 0	5 10	15 3	1 18	12 33	1 33	23 45	0 37	21 44	0 42	15 10	1 17	7 28	0 45	15 19	0 14
T 30	17 49	28 27	5 1	14 23	1 10	12 6	1 33	23 42	0 37	21 45	0 42	15 12	1 17	7 27	0 45	15 18	0 14
W31	17s33	27n15	4n36	13s42	1s1	11s38	1s32	23s40	0s38	21s46	0n42	15n14	1n17	7s26	0s44	15s17	0s14

Julian Day Number = 2454101.5, Delta T = 65.15 sec

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ASTRODIENST EPHEMERIS for the year 2007

geocentric

FEBRUARY 2007

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 43 18	11°43'58	27°11	27°54	4°48	11°11	14°00	22°R26	12°53	19°13	28°4	16°R30	18°2	11°32	10°12	T 1
F 2	8 47 14	12°44'51	9°58	29°25	6°2	11°56	14°10	22°21	12°56	19°15	28°5	16°R25	17°59	11°38	10°17	F 2
S 3	8 51 11	13°45'43	22°30	0°53	7°17	12°40	14°19	22°16	12°59	19°17	28°7	16°21	17°55	11°45	10°22	S 3
S 4	8 55 8	14°46'33	4°49	2°18	8°32	13°25	14°29	22°12	13°2	19°19	28°9	16°19	17°52	11°52	10°26	S 4
M 5	8 59 4	15°47'23	16°56	3°38	9°46	14°10	14°39	22°7	13°5	19°22	28°10	16°D18	17°49	11°58	10°31	M 5
T 6	9 3 1	16°48'12	28°53	4°52	11°1	14°55	14°48	22°2	13°8	19°24	28°12	16°19	17°46	12°5	10°36	T 6
W 7	9 6 57	17°48'59	10°44	6°1	12°15	15°39	14°57	21°57	13°11	19°26	28°14	16°20	17°43	12°12	10°41	W 7
T 8	9 10 54	18°49'46	22°32	7°3	13°30	16°24	15°6	21°52	13°15	19°28	28°15	16°22	17°39	12°18	10°45	T 8
F 9	9 14 50	19°50'31	4°42	7°57	14°44	17°9	15°15	21°47	13°18	19°31	28°17	16°24	17°36	12°25	10°50	F 9
S 10	9 18 47	20°51'16	16°19	8°43	15°58	17°54	15°24	21°42	13°21	19°33	28°18	16°R25	17°33	12°32	10°55	S 10
S 11	9 22 43	21°51'59	28°27	9°21	17°13	18°39	15°33	21°38	13°24	19°35	28°20	16°25	17°30	12°38	11°0	S 11
M12	9 26 40	22°52'42	10°52	9°49	18°27	19°24	15°42	21°33	13°28	19°38	28°21	16°23	17°27	12°45	11°4	M12
T 13	9 30 37	23°53'24	23°38	10°6	19°41	20°9	15°50	21°28	13°31	19°40	28°23	16°21	17°24	12°51	11°9	T 13
W14	9 34 33	24°54'04	6°48	10°R14	20°56	20°54	15°59	21°23	13°34	19°42	28°24	16°18	17°20	12°58	11°14	W14
T 15	9 38 30	25°54'43	20°23	10°10	22°10	21°39	16°7	21°18	13°37	19°44	28°26	16°15	17°17	13°5	11°18	T 15
F 16	9 42 26	26°55'21	4°22	9°57	23°24	22°24	16°15	21°13	13°41	19°47	28°27	16°12	17°14	13°11	11°23	F 16
S 17	9 46 23	27°55'58	18°44	9°33	24°38	23°9	16°23	21°8	13°44	19°49	28°28	16°10	17°11	13°18	11°28	S 17
S 18	9 50 19	28°56'33	3°22	8°59	25°52	23°55	16°31	21°3	13°47	19°51	28°30	16°9	17°8	13°25	11°32	S 18
M19	9 54 16	29°57'06	18°11	8°16	27°6	24°40	16°39	20°59	13°51	19°53	28°31	16°D8	17°4	13°31	11°37	M19
T 20	9 58 12	0°57'38	3°2	7°26	28°20	25°25	16°47	20°54	13°54	19°56	28°32	16°9	17°1	13°38	11°42	T 20
W21	10 2 9	1°58'08	17°48	6°30	29°34	26°10	16°54	20°49	13°58	19°58	28°33	16°10	16°58	13°45	11°46	W21
T 22	10 6 6	2°58'36	2°23	5°29	0°48	26°56	17°2	20°44	14°1	20°0	28°35	16°11	16°55	13°51	11°51	T 22
F 23	10 10 2	3°59'03	16°43	4°24	2°2	27°41	17°9	20°40	14°4	20°2	28°36	16°12	16°52	13°58	11°55	F 23
S 24	10 13 59	4°59'27	0°45	3°18	3°16	28°26	17°16	20°35	14°8	20°5	28°37	16°R12	16°49	14°5	12°0	S 24
S 25	10 17 55	5°59'50	14°29	2°12	4°30	29°12	17°23	20°30	14°11	20°7	28°38	16°12	16°45	14°11	12°4	S 25
M26	10 21 52	7°0'10	27°54	1°8	5°43	29°57	17°30	20°26	14°15	20°9	28°39	16°12	16°42	14°18	12°9	M26
T 27	10 25 48	8°0'29	11°3	0°7	6°57	0°43	17°36	20°21	14°18	20°11	28°40	16°11	16°39	14°25	12°13	T 27
W28	10 29 45	9°4'46	23°55	29°11	8°11	1°28	17°43	20°17	14°21	20°13	28°41	16°R10	16°36	14°21	12°18	W28

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	17s16	24n35	3n56	13s0	0s51	11s10	1s31	23s37	0s38	21s47	0n42	15n15	1n17	7s25	0s44	15s17	0s14	16s33	6n53	5s20	4s44	6s27	11s32	6n23			
F 2	16 59	20 44	3 5	12 18	0 40	10 42	1 30	23 33	0 39	21 48	0 42	15 17	1 17	7 23	0 44	15 16	0 14	16 33	6 53	5 22	4 45	6 30	11 31	6 23			
S 3	16 42	16 0	2 7	11 36	0 28	10 13	1 30	23 30	0 40	21 50	0 42	15 19	1 18	7 22	0 44	15 15	0 14	16 33	6 53	5 23	4 46	6 34	11 30	6 23			
S 4	16 24	10 43	1 3	10 54	0 16	9 45	1 29	23 26	0 40	21 51	0 42	15 20	1 18	7 21	0 44	15 15	0 14	16 33	6 53	5 24	4 48	6 37	11 28	6 23			
M 5	16 6	5 6	0s3	10 13	0 3	9 16	1 28	23 22	0 41	21 52	0 42	15 22	1 18	7 20	0 44	15 14	0 14	16 33	6 53	5 24	4 49	6 40	11 27	6 23			
T 6	15 48	0s36	1 9	9 33	0n11	8 46	1 27	23 18	0 42	21 53	0 42	15 24	1 18	7 19	0 44	15 13	0 14	16 33	6 53	5 24	4 50	6 44	11 26	6 23			
W 7	15 30	6 15	2 10	8 55	0 26	8 17	1 26	23 13	0 42	21 54	0 42	15 25	1 18	7 17	0 44	15 13	0 14	16 33	6 53	5 23	4 51	6 47	11 25	6 23			
T 8	15 11	11 39	3 6	8 18	0 41	7 47	1 24	23 9	0 43	21 55	0 42	15 27	1 18	7 16	0 44	15 12	0 14	16 33	6 53	5 23	4 53	6 51	11 23	6 23			
F 9	14 52	16 39	3 54	7 43	0 56	7 18	1 23	23 4	0 44	21 56	0 42	15 29	1 18	7 15	0 44	15 11	0 14	16 33	6 53	5 22	4 54	6 54	11 22	6 23			
S 10	14 33	21 4	4 33	7 11	1 12	6 47	1 22	22 59	0 44	21 57	0 42	15 30	1 18	7 14	0 44	15 10	0 14	16 32	6 53	5 22	4 55	6 57	11 21	6 23			
S 11	14 13	24 41	5 0	6 42	1 29	6 17	1 21	22 53	0 45	21 58	0 42	15 32	1 18	7 12	0 44	15 10	0 14	16 32	6 53	5 22	4 56	7 1	11 19	6 23			
M12	13 53	27 15	5 14	6 16	1 45	5 47	1 19	22 48	0 46	21 59	0 42	15 34	1 18	7 11	0 44	15 9	0 14	16 32	6 54	5 22	4 58	7 4	11 18	6 23			
T 13	13 34	28 29	5 12	5 54	2 1	5 16	1 18	22 42	0 46	21 59	0 42	15 35	1 19	7 10	0 44	15 8	0 14	16 32	6 54	5 23	4 59	7 7	11 17	6 23			
W14	13 13	28 11	4 55	5 37	2 17	4 46	1 16	22 35	0 47	22 0	0 42	15 37	1 19	7 9	0 44	15 8	0 14	16 32	6 54	5 24	5 0	7 11	11 15	6 23			
T 15	12 53	26 12	4 21	5 24	2 33	4 15	1 14	22 29	0 48	22 1	0 42	15 39	1 19	7 7	0 44	15 7	0 14	16 32	6 54	5 25	5 1	7 14	11 14	6 23			
F 16	12 32	22 35	3 31	5 16	2 47	3 44	1 13	22 22	0 48	22 2	0 42	15 40	1 19	7 6	0 44	15 6	0 14	16 32	6 54	5 27	5 3	7 17	11 13	6 23			
S 17	12 12	17 31	2 26	5 12	3 0	3 13	1 11	22 15	0 49	22 3	0 42	15 42	1 19	7 5	0 44	15 5	0 14	16 32	6 54	5 27	5 4	7 21	11 11	6 24			
S 18	11 51	11 21	1 10	5 14	3 12	2 42	1 9	22 8	0 50	22 3	0 42	15 44	1 19	7 3	0 44	15 5	0 14	16 32	6 54	5 28	5 5	7 24	11 10	6 24			
M19	11 29	4 30	0n11	5 20	3 23	2 11	1 7	22 1	0 50	22 4	0 42	15 45	1 19	7 2	0 44	15 4	0 14	16 32	6 54	5 28	5 6	7 27	11 9	6 24			
T 20	11 8	2n37	1 32	5 31	3 31	1 39	1 5	21 53	0 51	22 5	0 42	15 47	1 19	7 1	0 44	15 3	0 14	16 32	6 54	5 28	5 8	7 31	11 7	6 24			
W21	10 46	9 33	2 47	5 46	3 37	1 8	1 3	21 46	0 52	22 6	0 42	15 48	1 19	6 59	0 44	15 3	0 14	16 32	6 54	5 28	5 9	7 34	11 6	6 24			
T 22	10 25	15 53	3 49	6 4	3 42	0 37	1 1	21 38	0 52	22 6	0 42	15 50	1 19	6 58	0 44	15 2	0 14	16 32	6 54	5 27	5 10	7 37	11 5	6 24			
F 23	10 3	21 14	4 36	6 26	3 43	0 5	0 59	21 29	0 53	22 7	0 42	15 51	1 19	6 57	0 44	15 1	0 14	16 31	6 55	5 27	5 11	7 40	11 3	6 24			
S 24	9 41	25 17	5 6	6 50	3 43	0n26	0 57	21 21	0 53	22 8	0 42	15 53	1 19	6 55	0 44	15 1	0 14	16 31	6 55	5 27	5 12	7 44	11 2	6 24			
S 25	9 19	27 47	5 17	7 16	3 40	0 57	0 54	21 12	0 54	22 8	0 42	15 55	1 19	6 54	0 44	15 0	0 14	16 31	6 55	5 27	5 14	7 47	11 1	6 25			
M26	8 56	28 36	5 10	7 43	3 36	1 29	0 52	21 3	0 55	22 9	0 43	15 56	1 19	6 53	0 44	14 59	0 14	16 31	6 55	5 27	5 15	7 50	10 59	6 25			
T 27	8 34	27 46	4 48	8 10	3 29	2 0	0 50	20 54	0 55	22 9	0 43	15 58	1 19	6 52	0 44	14 59	0 14	16 31	6 55	5 27	5 16	7 54	10 58	6 25			
W28	8s11	25n27	4n11	8s38	3n21	2n31	0s47	20s45	0s56	22s10	0n43	15n59	1n20	6s50	0s44	14s58	0s14	16s31	6n55	5s28	5s17	7s57	10s57	6n25			

Julian Day Number = 2454132.5, Delta T = 65.17 sec

Ecliptic obliquity = 23°26'27", Nutation = 0°00'05", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°50'21", Lahiri = 23°57'22"

ASTRODIENST EPHEMERIS for the year 2007

geocentric

MARCH 2007

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 33 41	10°1'00	6°34	28°R19	9°Y24	2°13	17°49	20°R12	14°25	20°16	28°42	16°R 9	16°33	14°38	12°22	T 1
F 2	10 37 38	11° 1'13	19° 0	27°34	10°38	2°59	17°56	20°8	14°28	20°18	28°43	16°8	16°30	14°45	12°26	F 2
S 3	10 41 35	12° 1'24	1°15	26°55	11°51	3°44	18° 2	20° 4	14°32	20°20	28°44	16° 8	16°26	14°51	12°31	S 3
S 4	10 45 31	13° 1'33	13°21	26°23	13° 5	4°30	18° 8	19°59	14°35	20°22	28°45	16°D 8	16°23	14°58	12°35	S 4
M 5	10 49 28	14° 1'40	25°20	25°58	14°18	5°16	18°13	19°55	14°39	20°24	28°46	16° 8	16°20	15° 5	12°39	M 5
T 6	10 53 24	15° 1'45	7°13	25°40	15°31	6° 1	18°19	19°51	14°42	20°26	28°47	16° 8	16°17	15°11	12°43	T 6
W 7	10 57 21	16° 1'49	19° 2	25°29	16°44	6°47	18°24	19°47	14°45	20°28	28°48	16°R 8	16°14	15°18	12°48	W 7
T 8	11 1 17	17° 1'51	0°15	25°D25	17°58	7°32	18°30	19°43	14°49	20°31	28°49	16° 8	16°10	15°25	12°52	T 8
F 9	11 5 14	18° 1'51	12°42	25°27	19°11	8°18	18°35	19°39	14°52	20°33	28°49	16° 8	16° 7	15°31	12°56	F 9
S 10	11 9 10	19° 1'49	24°40	25°35	20°24	9° 4	18°40	19°35	14°56	20°35	28°50	16° 7	16° 4	15°38	13° 0	S 10
S 11	11 13 7	20° 1'46	6°47	25°48	21°37	9°49	18°44	19°31	14°59	20°37	28°51	16° 7	16° 1	15°45	13° 4	S 11
M12	11 17 3	21° 1'42	19° 9	26° 8	22°50	10°35	18°49	19°27	15° 3	20°39	28°51	16°D 7	15°58	15°51	13° 8	M12
T 13	11 21 0	22° 1'36	1°35	26°32	24° 3	11°21	18°53	19°23	15° 6	20°41	28°52	16° 7	15°55	15°58	13°12	T 13
W14	11 24 57	23° 1'28	14°53	27° 1	25°15	12° 7	18°58	19°20	15°10	20°43	28°53	16° 7	15°51	16° 5	13°16	W14
T 15	11 28 53	24° 1'18	28°22	27°35	26°28	12°53	19° 2	19°16	15°13	20°45	28°53	16° 8	15°48	16°11	13°20	T 15
F 16	11 32 50	25° 1'07	12°17	28°13	27°41	13°38	19° 6	19°13	15°16	20°47	28°54	16° 9	15°45	16°18	13°24	F 16
S 17	11 36 46	26° 0'54	26°39	28°55	28°53	14°24	19°10	19° 9	15°20	20°49	28°54	16°10	15°42	16°25	13°28	S 17
S 18	11 40 43	27° 0'39	11°24	29°41	0°8	15°10	19°13	19° 6	15°23	20°51	28°55	16°R10	15°39	16°31	13°31	S 18
M19	11 44 39	28° 0'22	26°25	0°30	1°19	15°56	19°17	19° 3	15°27	20°53	28°55	16°10	15°36	16°38	13°35	M19
T 20	11 48 36	29° 0'03	11°34	1°22	2°31	16°42	19°20	18°59	15°30	20°55	28°56	16° 9	15°32	16°45	13°39	T 20
W21	11 52 32	29°59'42	26°42	2°18	3°43	17°28	19°23	18°56	15°33	20°56	28°56	16° 8	15°29	16°51	13°43	W21
T 22	11 56 29	0°59'18	11°40	3°16	4°56	18°14	19°26	18°53	15°37	20°58	28°56	16° 6	15°26	16°58	13°46	T 22
F 23	12 0 26	1°58'53	26°20	4°17	6° 8	18°59	19°28	18°50	15°40	21° 0	28°57	16° 4	15°23	17° 5	13°50	F 23
S 24	12 4 22	2°58'26	10°36	5°21	7°20	19°45	19°31	18°48	15°43	21° 2	28°57	16° 2	15°20	17°11	13°53	S 24
S 25	12 8 19	3°57'56	24°28	6°27	8°32	20°31	19°33	18°45	15°47	21° 4	28°57	16° 1	15°16	17°18	13°57	S 25
M26	12 12 15	4°57'24	7°53	7°35	9°44	21°17	19°35	18°42	15°50	21° 6	28°57	16°D 1	15°13	17°25	14° 0	M26
T 27	12 16 12	5°56'49	20°56	8°46	10°56	22° 3	19°37	18°40	15°53	21° 7	28°58	16° 2	15°10	17°31	14° 4	T 27
W28	12 20 8	6°56'12	3°38	9°59	12° 8	22°49	19°39	18°37	15°56	21° 9	28°58	16° 3	15° 7	17°38	14° 7	W28
T 29	12 24 5	7°55'33	16° 4	11°13	13°19	23°35	19°41	18°35	16° 0	21°11	28°58	16° 5	15° 4	17°45	14°10	T 29
F 30	12 28 1	8°54'52	28°16	12°30	14°31	24°21	19°42	18°33	16° 3	21°12	28°58	16° 6	15° 1	17°51	14°13	F 30
S 31	12 31 58	9°54'08	10°18	13°48	15°42	25° 7	19°43	18°31	16°6	21°14	28°58	16°R 7	14°57	17°58	14°17	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	7s49	21n54	3n22	9s 4	3n11	3n 3	0s45	20s35	0s57	22s11	0n43	16n 0	1n20	6s49	0s44	14s57
F 2	7 26	17 26	2 25	9 30	3 0	3 34	0 42	20 25	0 57	22 11	0 43	16 2	1 20	6 48	0 44	14 57
S 3	7 3	12 18	1 22	9 55	2 48	4 5	0 39	20 15	0 58	22 12	0 43	16 3	1 20	6 46	0 44	14 56
S 4	6 40	6 47	0 15	10 18	2 35	4 36	0 37	20 5	0 58	22 12	0 43	16 5	1 20	6 45	0 44	14 55
M 5	6 17	1 5	0s51	10 39	2 21	5 7	0 34	19 55	0 59	22 13	0 43	16 6	1 20	6 44	0 44	14 55
T 6	5 54	4s37	1 55	10 58	2 7	5 38	0 31	19 44	1 0	22 13	0 43	16 7	1 20	6 42	0 44	14 54
W 7	5 31	10 7	2 53	11 15	1 53	6 8	0 29	19 33	1 0	22 13	0 43	16 9	1 20	6 41	0 44	14 53
T 8	5 7	15 16	3 44	11 29	1 39	6 39	0 26	19 22	1 1	22 14	0 43	16 10	1 20	6 40	0 44	14 53
F 9	4 44	19 52	4 25	11 42	1 25	7 9	0 23	19 11	1 2	22 14	0 43	16 11	1 20	6 38	0 44	14 52
S 10	4 20	23 43	4 56	11 52	1 11	7 40	0 20	18 59	1 2	22 15	0 43	16 13	1 20	6 37	0 44	14 51
S 11	3 57	26 35	5 13	12 1	0 58	8 10	0 17	18 48	1 3	22 15	0 43	16 14	1 20	6 36	0 44	14 51
M12	3 33	28 16	5 12	12 7	0 44	8 40	0 14	18 36	1 3	22 15	0 43	16 15	1 20	6 34	0 44	14 50
T 13	3 10	28 31	5 6	12 11	0 31	9 9	0 11	18 24	1 4	22 16	0 43	16 16	1 20	6 33	0 44	14 49
W14	2 46	27 13	4 39	12 13	0 18	9 39	0 8	18 12	1 4	22 16	0 43	16 17	1 20	6 32	0 44	14 49
T 15	2 22	24 20	3 55	12 13	0 6	10 8	0 5	17 59	1 5	22 16	0 43	16 18	1 20	6 30	0 44	14 48
F 16	1 59	19 57	2 57	12 11	0s 6	10 37	0 2	17 47	1 6	22 17	0 43	16 20	1 20	6 29	0 44	14 47
S 17	1 35	14 18	1 46	12 7	0 17	11 6	0n 1	17 34	1 6	22 17	0 43	16 21	1 20	6 28	0 44	14 47
S 18	1 11	7 42	0 26	12 2	0 28	11 35	0 5	17 21	1 7	22 17	0 43	16 22	1 20	6 26	0 44	14 46
M19	0 48	0 34	0n57	11 54	0 39	12 3	0 8	17 8	1 7	22 17	0 43	16 23	1 20	6 25	0 44	14 46
T 20	0 24	6n40	2 16	11 45	0 49	12 31	0 11	16 55	1 8	22 18	0 43	16 24	1 20	6 24	0 44	14 45
W21	0 0	13 30	3 26	11 34	0 59	12 59	0 14	16 41	1 8	22 18	0 43	16 25	1 20	6 22	0 44	14 44
T 22	0n24	19 28	4 21	11 22	1 8	13 26	0 17	16 28	1 9	22 18	0 43	16 26	1 20	6 21	0 44	14 44
F 23	0 47	24 9	4 58	11 8	1 17	13 53	0 21	16 14	1 10	22 18	0 43	16 26	1 20	6 20	0 44	14 43
S 24	1 11	27 14	5 15	10 52	1 25	14 20	0 24	16 0	1 10	22 18	0 43	16 27	1 20	6 19	0 44	14 43
S 25	1 35	28 32	5 13	10 35	1 32	14 47	0 27	15 46	1 11	22 18	0 44	16 28	1 20	6 17	0 44	14 42
M26	1 58	28 5	4 54	10 16	1 40	15 13	0 31	15 32	1 11	22 19	0 44	16 29	1 20	6 16	0 44	14 42
T 27	2 22	26 5	4 20	9 56	1 46	15 39	0 34	15 17	1 12	22 19	0 44	16 30	1 20	6 15	0 44	14 41
W28	2 45	22 48	3 34	9 34	1 53	16 4	0 37	15 3	1 12	22 19	0 44	16 30	1 20	6 14	0 44	14 41
T 29	3 9	18 33	2 38	9 11	1 58	16 29	0 41	14 48	1 13	22 19	0 44	16 31	1 20	6 12	0 44	14 40
F 30	3 32	13 36	1 37	8 46	2 4	16 54	0 44	14 33	1 13	22 19	0 44	16 32	1 20	6 11	0 44	14 40
S 31	3n55	8n12	0n32	8s21	2s 8	17n18	0n47	14s19	1s14	22s19	0n44	16n32	1n20	6s10	0s44	14s39

Julian Day Number = 2454160.5, Delta T = 65.20 sec
 Ecliptic obliquity = 23°26'27", Nutation = 0°00'05", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°50'25", Lahiri = 23°57'26"

ASTRODIENST EPHEMERIS for the year 2007

geocentric

APRIL 2007

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 35 55	10°53'22	22°14	15°9	16°54	25°53	19°44	18°R28	16°9	21°16	28°R58	16°R 7	14°54	18°5	14°20	S 1
M 2	12 39 51	11°52'34	4°5	16°31	18°5	26°39	19°45	18°R27	16°13	21°17	28°R58	16°R 6	14°51	18°11	14°23	M 2
T 3	12 43 48	12°51'44	15°55	17°55	19°16	27°25	19°46	18°25	16°16	21°19	28°58	16°3	14°48	18°18	14°26	T 3
W 4	12 47 44	13°50'52	27°44	19°20	20°28	28°11	19°46	18°23	16°19	21°20	28°58	15°59	14°45	18°25	14°29	W 4
T 5	12 51 41	14°49'58	9°36	20°47	21°39	28°57	19°47	18°21	16°22	21°22	28°58	15°54	14°41	18°31	14°32	T 5
F 6	12 55 37	15°49'02	21°31	22°16	22°50	29°43	19°R47	18°20	16°25	21°24	28°58	15°49	14°38	18°38	14°35	F 6
S 7	12 59 34	16°48'04	3°33	23°46	24°1	0°29	19°47	18°18	16°28	21°25	28°57	15°44	14°35	18°45	14°38	S 7
S 8	13 3 30	17°47'04	15°44	25°18	25°11	1°15	19°46	18°17	16°31	21°27	28°57	15°39	14°32	18°51	14°40	S 8
M 9	13 7 27	18°46'03	28°7	26°52	26°22	2°1	19°46	18°16	16°34	21°28	28°57	15°36	14°29	18°58	14°43	M 9
T 10	13 11 24	19°45'00	10°34	28°27	27°33	2°47	19°45	18°15	16°37	21°29	28°57	15°34	14°26	19°5	14°46	T 10
W11	13 15 20	20°43'55	23°43	0°4	28°43	3°33	19°44	18°14	16°40	21°31	28°56	15°D34	14°22	19°11	14°48	W11
T 12	13 19 17	21°42'49	7°3	1°42	29°53	4°19	19°43	18°13	16°43	21°32	28°56	15°35	14°19	19°18	14°51	T 12
F 13	13 23 13	22°41'40	20°48	3°21	1°11	5°5	19°42	18°12	16°46	21°33	28°56	15°36	14°16	19°25	14°53	F 13
S 14	13 27 10	23°40'30	4°59	5°3	2°14	5°51	19°41	18°11	16°49	21°35	28°55	15°37	14°13	19°31	14°56	S 14
S 15	13 31 6	24°39'18	19°35	6°46	3°24	6°37	19°39	18°11	16°52	21°36	28°55	15°R38	14°10	19°38	14°58	S 15
M16	13 35 3	25°38'04	4°32	8°30	4°34	7°24	19°37	18°10	16°55	21°37	28°54	15°36	14°7	19°45	15°0	M16
T 17	13 38 59	26°36'49	19°43	10°16	5°44	8°10	19°35	18°10	16°58	21°39	28°54	15°33	14°3	19°51	15°3	T 17
W18	13 42 56	27°35'31	4°58	12°3	6°53	8°56	19°33	18°10	17°1	21°40	28°53	15°28	14°0	19°58	15°5	W18
T 19	13 46 53	28°34'12	20°8	13°53	8°3	9°42	19°31	18°9	17°3	21°41	28°53	15°22	13°57	20°5	15°7	T 19
F 20	13 50 49	29°32'51	5°11	15°43	9°13	10°28	19°29	18°D 9	17°6	21°42	28°52	15°15	13°54	20°11	15°9	F 20
S 21	13 54 46	0°31'27	19°31	17°36	10°22	11°14	19°26	18°9	17°9	21°43	28°52	15°9	13°51	20°18	15°11	S 21
S 22	13 58 42	1°30'02	3°34	19°30	11°31	12°0	19°23	18°10	17°12	21°44	28°51	15°4	13°47	20°25	15°13	S 22
M23	14 2 39	2°28'34	17°7	21°25	12°40	12°46	19°20	18°10	17°14	21°45	28°50	15°1	13°44	20°31	15°15	M23
T 24	14 6 35	3°27'04	0°12	23°22	13°49	13°32	19°17	18°10	17°17	21°46	28°50	15°D 0	13°41	20°38	15°17	T 24
W25	14 10 32	4°25'32	12°53	25°21	14°58	14°18	19°13	18°11	17°19	21°47	28°49	15°0	13°38	20°45	15°19	W25
T 26	14 14 28	5°23'58	25°14	27°21	16°7	15°3	19°10	18°11	17°22	21°48	28°48	15°1	13°35	20°51	15°20	T 26
F 27	14 18 25	6°22'21	7°20	29°23	17°15	15°49	19°6	18°12	17°25	21°49	28°48	15°2	13°32	20°58	15°22	F 27
S 28	14 22 22	7°20'42	19°16	1°26	18°24	16°35	19°2	18°13	17°27	21°50	28°47	15°R 2	13°28	21°5	15°23	S 28
S 29	14 26 18	8°19'02	1°7	3°31	19°32	17°21	18°58	18°14	17°30	21°51	28°46	15°1	13°25	21°11	15°25	S 29
M30	14 30 15	9°17'19	12°55	5°36	20°40	18°7	18°54	18°15	17°32	21°52	28°45	14°57	13°22	21°18	15°26	M30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	4n19	2n34	0s34	7s54	2s13	17n42	0n51	14s 3	1s14	22s19	0n44	16n33	1n20	6s 9	0s44	S 1
M 2	4 42	3s 7	1 37	7 25	2 17	18 5	0 54	13 48	1 15	22 19	0 44	16 34	1 19	6 7	0 44	M 2
T 3	5 5	8 40	2 36	6 55	2 20	18 28	0 57	13 33	1 15	22 19	0 44	16 34	1 19	6 6	0 44	T 3
W 4	5 28	13 55	3 29	6 25	2 23	18 50	1 1	13 17	1 16	22 19	0 44	16 35	1 19	6 5	0 44	W 4
T 5	5 51	18 40	4 12	5 52	2 25	19 12	1 4	13 2	1 16	22 19	0 44	16 35	1 19	6 4	0 44	T 5
F 6	6 13	22 43	4 45	5 19	2 27	19 34	1 7	12 46	1 17	22 19	0 44	16 36	1 19	6 3	0 44	F 6
S 7	6 36	25 51	5 5	4 45	2 28	19 55	1 10	12 30	1 17	22 19	0 44	16 36	1 19	6 1	0 44	S 7
S 8	6 59	27 51	5 12	4 9	2 29	20 15	1 14	12 14	1 18	22 19	0 44	16 36	1 19	6 0	0 44	S 8
M 9	7 21	28 30	5 5	3 32	2 30	20 35	1 17	11 58	1 18	22 19	0 44	16 37	1 19	5 59	0 44	M 9
T 10	7 44	27 42	4 43	2 54	2 29	20 55	1 20	11 42	1 19	22 19	0 44	16 37	1 19	5 58	0 44	T 10
W11	8 6	25 23	4 6	2 15	2 29	21 14	1 23	11 26	1 19	22 19	0 44	16 37	1 19	5 57	0 44	W11
T 12	8 28	21 39	3 15	1 35	2 28	21 32	1 26	11 10	1 20	22 19	0 44	16 38	1 19	5 56	0 45	T 12
F 13	8 50	16 38	2 11	0 54	2 26	21 50	1 30	10 53	1 20	22 19	0 44	16 38	1 19	5 54	0 45	F 13
S 14	9 11	10 35	0 58	0 12	2 24	22 7	1 33	10 37	1 20	22 18	0 44	16 38	1 19	5 53	0 45	S 14
S 15	9 33	3 48	0n22	0n31	2 21	22 24	1 36	10 20	1 21	22 18	0 44	16 38	1 19	5 52	0 45	S 15
M16	9 55	3n21	1 41	1 15	2 18	22 40	1 39	10 3	1 21	22 18	0 44	16 38	1 19	5 51	0 45	M16
T 17	10 16	10 24	2 54	2 0	2 14	22 56	1 42	9 46	1 22	22 18	0 44	16 38	1 19	5 50	0 45	T 17
W18	10 37	16 53	3 56	2 46	2 10	23 11	1 45	9 29	1 22	22 18	0 44	16 38	1 19	5 49	0 45	W18
T 19	10 58	22 16	4 40	3 33	2 6	23 25	1 48	9 12	1 22	22 18	0 44	16 38	1 19	5 48	0 45	T 19
F 20	11 19	26 7	5 4	4 20	2 0	23 39	1 50	8 55	1 23	22 17	0 44	16 38	1 19	5 47	0 45	F 20
S 21	11 39	28 9	5 8	5 8	1 55	23 52	1 53	8 38	1 23	22 17	0 44	16 38	1 19	5 46	0 45	S 21
S 22	12 0	28 17	4 53	5 57	1 49	24 5	1 56	8 21	1 24	22 17	0 44	16 38	1 19	5 45	0 45	S 22
M23	12 20	26 41	4 22	6 47	1 42	24 17	1 59	8 4	1 24	22 17	0 44	16 38	1 18	5 44	0 45	M23
T 24	12 40	23 40	3 38	7 37	1 35	24 28	2 1	7 46	1 24	22 16	0 44	16 38	1 18	5 43	0 45	T 24
W25	13 0	19 35	2 45	8 27	1 27	24 39	2 4	7 29	1 25	22 16	0 44	16 37	1 18	5 42	0 45	W25
T 26	13 19	14 45	1 45	9 18	1 19	24 49	2 6	7 12	1 25	22 16	0 44	16 37	1 18	5 41	0 45	T 26
F 27	13 39	9 27	0 41	10 9	1 11	24 58	2 9	6 54	1 25	22 16	0 44	16 37	1 18	5 40	0 45	F 27
S 28	13 58	3 54	0s23	11 1	1 2	25 7	2 11	6 37	1 26	22 15	0 44	16 37	1 18	5 39	0 45	S 28
S 29	14 17	1s45	1 25	11 52	0 52	25 15	2 14	6 19	1 26	22 15	0 44	16 36	1 18	5 38	0 45	S 29
M30	14n35	7s18	2s24	12n43	0s43	25n22	2n16	6s 1	1s26	22s15	0n44	16n36	1n18	5s37	0s45	M30

Julian Day Number = 2454191.5, Delta T = 65.22 sec

Ecliptic obliquity = 23°26'27", Nutation = 0°00'04", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°50'29", Lahiri = 23°57'30"

ASTRODIENST EPHEMERIS for the year 2007

geocentric

MAY 2007

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 34 11	10♌15°35'	24♌44	7♌43	21♌48	18♌53	18♌50	18♌16	17♌34	21♌53	28♌44	14♌R51	13♌19	21♌25	15♌28	T 1
W 2	14 38 8	11♌13°48'	6♌36	9°51	22°56	19°39	18♌45	18°17	17°37	21°53	28♌43	14♌43	13°16	21°31	15°29	W 2
T 3	14 42 4	12♌12°00'	18°33	12° 0	24° 4	20°25	18°40	18°19	17°39	21°54	28°42	14°32	13°13	21°38	15°30	T 3
F 4	14 46 1	13♌10°11'	0♌37	14° 9	25°11	21°10	18°35	18°20	17°41	21°55	28°41	14°22	13° 9	21°45	15°32	F 4
S 5	14 49 57	14° 8'19	12°48	16°19	26°18	21°56	18°30	18°22	17°44	21°55	28°40	14°11	13° 6	21°52	15°33	S 5
S 6	14 53 54	15° 6'26	25° 9	18°29	27°26	22°42	18°25	18°23	17°46	21°56	28°39	14° 1	13° 3	21°58	15°34	S 6
M 7	14 57 51	16° 4'32	7♌40	20°39	28°32	23°28	18°20	18°25	17°48	21°57	28°38	13°53	13° 0	22° 5	15°35	M 7
T 8	15 1 147	17° 2'36	20°24	22°48	29°39	24°14	18°15	18°27	17°50	21°57	28°37	13°47	12°57	22°12	15°36	T 8
W 9	15 5 44	18° 0'39	3♌23	24°57	0♌46	24°59	18° 9	18°29	17°52	21°58	28°36	13°44	12°53	22°18	15°36	W 9
T 10	15 9 40	18°58'40	16°40	27° 5	1°52	25°45	18° 3	18°31	17°54	21°58	28°35	13°D43	12°50	22°25	15°37	T 10
F 11	15 13 37	19°56'41	0♌16	29°11	2°59	26°31	17°58	18°33	17°56	21°59	28°34	13°44	12°47	22°32	15°38	F 11
S 12	15 17 33	20°54'39	14°15	1♌16	4° 5	27°16	17°52	18°35	17°58	21°59	28°33	13°R44	12°44	22°38	15°39	S 12
S 13	15 21 30	21°52'37	28°36	3°20	5°10	28° 2	17°46	18°38	18° 0	22° 0	28°32	13°43	12°41	22°45	15°39	S 13
M14	15 25 26	22°50'33	13♌17	5°21	6°16	28°48	17°39	18°40	18° 2	22° 0	28°31	13°40	12°38	22°52	15°40	M14
T 15	15 29 23	23°48'28	28°14	7°20	7°21	29°33	17°33	18°43	18° 4	22° 0	28°29	13°35	12°34	22°58	15°40	T 15
W16	15 33 20	24°46'21	13♌20	9°16	8°27	0♌19	17°27	18°45	18° 6	22° 1	28°28	13°27	12°31	23° 5	15°40	W16
T 17	15 37 16	25°44'13	28°24	11°10	9°32	1° 4	17°20	18°48	18° 8	22° 1	28°27	13°17	12°28	23°12	15°41	T 17
F 18	15 41 13	26°42'04	13♌17	13° 1	10°37	1°50	17°13	18°51	18° 9	22° 1	28°26	13° 6	12°25	23°18	15°41	F 18
S 19	15 45 9	27°39'54	27°50	14°49	11°41	2°35	17° 7	18°54	18°11	22° 1	28°24	12°56	12°22	23°25	15°41	S 19
S 20	15 49 6	28°37'41	11♌57	16°35	12°45	3°21	17° 0	18°57	18°13	22° 2	28°23	12°48	12°19	23°32	15°41	S 20
M21	15 53 2	29°35'28	25°36	18°17	13°50	4° 6	16°53	19° 0	18°14	22° 2	28°22	12°41	12°15	23°38	15°41	M21
T 22	15 56 59	0♌33'12	8♌45	19°56	14°53	4°51	16°46	19° 3	18°16	22° 2	28°21	12°38	12°12	23°45	15°41	T 22
W23	16 0 55	1°30'55	21°29	21°32	15°57	5°37	16°39	19° 7	18°17	22° 2	28°19	12°36	12° 9	23°52	15°41	W23
T 24	16 4 52	2°28'36	3♌52	23° 4	17° 0	6°22	16°32	19°10	18°19	22° 2	28°18	12°D36	12° 6	23°58	15°41	T 24
F 25	16 8 49	3°26'16	15°58	24°34	18° 3	7° 7	16°24	19°14	18°20	22°R 2	28°16	12°R36	12° 3	24° 5	15°41	F 25
S 26	16 12 45	4°23'54	27°54	26° 0	19° 6	7°52	16°17	19°17	18°22	22° 2	28°15	12°35	11°59	24°12	15°41	S 26
S 27	16 16 42	5°21'30	9♌43	27°22	20° 8	8°37	16°10	19°21	18°23	22° 2	28°14	12°32	11°56	24°18	15°40	S 27
M28	16 20 38	6°19'06	21°31	28°41	21°11	9°23	16° 2	19°25	18°24	22° 2	28°12	12°28	11°53	24°25	15°40	M28
T 29	16 24 35	7°16'40	3♌22	29°57	22°12	10° 8	15°55	19°29	18°26	22° 2	28°11	12°20	11°50	24°32	15°39	T 29
W30	16 28 31	8°14'12	15°19	1♌9	23°14	10°53	15°48	19°33	18°27	22° 2	28° 9	12°10	11°47	24°38	15°39	W30
T 31	16 32 28	9♌11'44	27♌24	2♌18	24♌15	11♌38	15♌40	19♌37	18♌28	22♌1	28♌8	11♌57	11♌44	24♌45	15♌38	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	14n54	12s37	3s16	13n34	0s33	25n29	2n18	5s44	1s27	22s14	0n44	16n36	1n18	5s36	0s45	14s27
W 2	15 12	17 30	4 0	14 24	0 23	25 35	2 20	5 26	1 27	22 14	0 44	16 35	1 18	5 35	0 45	14 27
T 3	15 30	21 44	4 34	15 14	0 12	25 41	2 22	5 8	1 27	22 13	0 44	16 35	1 18	5 34	0 45	14 27
F 4	15 48	25 5	4 55	16 3	0 2	25 45	2 24	4 50	1 27	22 13	0 44	16 34	1 18	5 33	0 45	14 26
S 5	16 5	27 21	5 4	16 51	0n 9	25 49	2 26	4 32	1 28	22 13	0 44	16 34	1 18	5 33	0 45	14 26
S 6	16 22	28 19	4 58	17 38	0 19	25 53	2 28	4 15	1 28	22 12	0 44	16 33	1 18	5 32	0 45	14 26
M 7	16 39	27 51	4 38	18 24	0 30	25 56	2 30	3 57	1 28	22 12	0 44	16 32	1 18	5 31	0 45	14 26
T 8	16 56	25 55	4 5	19 7	0 40	25 58	2 31	3 39	1 28	22 11	0 44	16 32	1 18	5 30	0 45	14 26
W 9	17 12	22 36	3 18	19 49	0 50	25 59	2 33	3 21	1 29	22 11	0 44	16 31	1 18	5 29	0 45	14 26
T 10	17 28	18 3	2 19	20 29	1 0	26 0	2 34	3 3	1 29	22 10	0 44	16 30	1 18	5 29	0 45	14 25
F 11	17 44	12 29	1 11	21 7	1 10	26 0	2 36	2 45	1 29	22 10	0 44	16 30	1 17	5 28	0 45	14 25
S 12	17 59	6 9	0n 3	21 42	1 19	26 0	2 37	2 27	1 29	22 9	0 44	16 29	1 17	5 27	0 45	14 25
S 13	18 14	0n38	1 18	22 15	1 28	25 58	2 38	2 9	1 30	22 9	0 44	16 28	1 17	5 26	0 45	14 25
M14	18 29	7 33	2 30	22 46	1 36	25 56	2 39	1 51	1 30	22 8	0 44	16 27	1 17	5 26	0 45	14 25
T 15	18 44	14 10	3 33	23 14	1 43	25 54	2 40	1 33	1 30	22 8	0 44	16 26	1 17	5 25	0 45	14 25
W16	18 58	20 0	4 32	23 39	1 50	25 51	2 41	1 15	1 30	22 7	0 44	16 26	1 17	5 24	0 45	14 25
T 17	19 12	24 33	4 52	24 2	1 56	25 47	2 42	0 57	1 30	22 7	0 44	16 25	1 17	5 24	0 45	14 25
F 18	19 25	27 23	5 2	24 22	2 2	25 43	2 42	0 39	1 30	22 6	0 44	16 24	1 17	5 23	0 46	14 25
S 19	19 38	28 17	4 52	24 40	2 6	25 38	2 43	0 21	1 31	22 6	0 44	16 23	1 17	5 22	0 46	14 25
S 20	19 51	27 17	4 24	24 55	2 10	25 32	2 43	0 3	1 31	22 5	0 43	16 22	1 17	5 22	0 46	14 25
M21	20 4	24 39	3 42	25 8	2 13	25 26	2 43	0n14	1 31	22 4	0 43	16 21	1 17	5 21	0 46	14 25
T 22	20 16	20 47	2 49	25 19	2 16	25 19	2 43	0 32	1 31	22 4	0 43	16 20	1 17	5 20	0 46	14 24
W23	20 28	16 4	1 49	25 27	2 17	25 12	2 43	0 50	1 31	22 3	0 43	16 19	1 17	5 20	0 46	14 24
T 24	20 39	10 48	0 46	25 33	2 18	25 4	2 43	1 8	1 31	22 3	0 43	16 17	1 17	5 19	0 46	14 24
F 25	20 51	5 16	0s18	25 37	2 17	24 55	2 43	1 26	1 31	22 2	0 43	16 16	1 17	5 19	0 46	14 24
S 26	21 1	0s23	1 20	25 39	2 16	24 46	2 43	1 44	1 31	22 1	0 43	16 15	1 17	5 18	0 46	14 25
S 27	21 12	5 58	2 18	25 39	2 14	24 36	2 42	2 1	1 31	22 1	0 43	16 14	1 17	5 18	0 46	14 25
M28	21 22	11 20	3 10	25 37	2 11	24 26	2 42	2 19	1 31	22 0	0 43	16 13	1 17	5 17	0 46	14 25
T 29	21 32	16 18	3 54	25 34	2 8	24 15	2 41	2 37	1 31	21 59	0 43	16 11	1 16	5 17	0 46	14 25
W30	21 41	20 42	4 28	25 29	2 3	24 4	2 40	2 54	1 31	21 59	0 43	16 10	1 16	5 16	0 46	14 25
T 31	21n50	24s17	4s50	25n23	1n58	23n52	2n39	3n12	1s31	21s58	0n43	16n 9	1n16	5s16	0s46	14s25

Julian Day Number = 2454221.5, Delta T = 65.25 sec
 Ecliptic obliquity = 23°26'27", Nutation = 0°00'04", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°50'34", Lahiri = 23°57'34"

ASTRODIENST EPHEMERIS for the year 2007

geocentric

JUNE 2007

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 36 24	10 ^{II} 9'14	9 [♂] 39	3 [♂] 23	25 [♂] 16	12 [♂] 22	15 [♂] R32	19 [♂] 41	18 [♂] 29	22 [♂] R 1	28 [♂] R 6	11 [♂] R44	11 [♂] 40	24 [♂] 52	15 [♂] R37	F 1
S 2	16 40 21	11° 6'43	22° 4	4°25	26°16	13° 7	15 [♂] 25	19°45	18°30	22 [♂] ≈ 1	28 [♂] ♂ 5	11 [♂] ♂31	11°37	24°59	15 [♂] ≈37	S 2
S 3	16 44 18	12° 4'12	4 [♂] 40	5°22	27°17	13°52	15°17	19°49	18°31	22° 1	28° 4	11°19	11°34	25° 5	15°36	S 3
M 4	16 48 14	13° 1'39	17°26	6°16	28°16	14°37	15°10	19°54	18°32	22° 0	28° 2	11° 9	11°31	25°12	15°35	M 4
T 5	16 52 11	13°59'06	0 [♂] ≈24	7° 6	29°16	15°22	15° 2	19°58	18°33	22° 0	28° 1	11° 1	11°28	25°19	15°34	T 5
W 6	16 56 7	14°56'32	13°34	7°52	0 [♂] 15	16° 6	14°54	20° 3	18°34	22° 0	27°59	10°57	11°25	25°25	15°33	W 6
T 7	17 0 4	15°53'57	26°57	8°34	1°13	16°51	14°47	20° 7	18°35	21°59	27°58	10°55	11°21	25°32	15°32	T 7
F 8	17 4 0	16°51'21	10 [♂] ♂35	9°12	2°12	17°36	14°39	20°12	18°36	21°59	27°56	10°55	11°18	25°39	15°31	F 8
S 9	17 7 57	17°48'45	24°28	9°45	3° 9	18°20	14°31	20°17	18°36	21°58	27°54	10°55	11°15	25°45	15°30	S 9
S 10	17 11 54	18°46'08	8 [♂] ♂37	10°15	4° 7	19° 5	14°24	20°22	18°37	21°58	27°53	10°54	11°12	25°52	15°28	S 10
M 11	17 15 50	19°43'31	23° 2	10°39	5° 4	19°49	14°16	20°26	18°38	21°57	27°51	10°51	11° 9	25°59	15°27	M 11
T 12	17 19 47	20°40'54	7 [♂] ♂39	11° 0	6° 0	20°34	14° 9	20°31	18°38	21°57	27°50	10°45	11° 5	26° 5	15°26	T 12
W 13	17 23 43	21°38'16	22°23	11°16	6°56	21°18	14° 1	20°37	18°39	21°56	27°48	10°37	11° 2	26°12	15°24	W 13
T 14	17 27 40	22°35'37	7 [♂] ♂ 7	11°27	7°51	22° 2	13°54	20°42	18°39	21°56	27°47	10°27	10°59	26°19	15°23	T 14
F 15	17 31 36	23°32'58	21°44	11°34	8°46	22°46	13°46	20°47	18°40	21°55	27°45	10°16	10°56	26°25	15°21	F 15
S 16	17 35 33	24°30'18	6 [♂] ♂ 6	11°R36	9°41	23°30	13°39	20°52	18°40	21°54	27°44	10° 5	10°53	26°32	15°19	S 16
S 17	17 39 29	25°27'38	20° 6	11°34	10°34	24°15	13°31	20°57	18°40	21°54	27°42	9°56	10°50	26°39	15°18	S 17
M 18	17 43 26	26°24'56	3 [♂] ♂41	11°27	11°28	24°59	13°24	21° 3	18°41	21°53	27°41	9°49	10°46	26°45	15°16	M 18
T 19	17 47 23	27°22'14	16°51	11°16	12°20	25°42	13°17	21° 8	18°41	21°52	27°39	9°45	10°43	26°52	15°14	T 19
W 20	17 51 19	28°19'32	29°36	11° 1	13°12	26°26	13°10	21°14	18°41	21°52	27°37	9°43	10°40	26°59	15°12	W 20
T 21	17 55 16	29°16'48	12 [♂] ♂ 1	10°42	14° 4	27°10	13° 2	21°20	18°41	21°51	27°36	9°D43	10°37	27° 6	15°11	T 21
F 22	17 59 12	0 [♂] ♂14'04	24° 9	10°19	14°55	27°54	12°55	21°25	18°41	21°50	27°34	9°43	10°34	27°12	15° 9	F 22
S 23	18 3 9	1°11'18	6 [♂] ♂ 6	9°53	15°45	28°38	12°48	21°31	18°42	21°49	27°33	9°R43	10°31	27°19	15° 7	S 23
S 24	18 7 5	2° 8'33	17°57	9°24	16°34	29°21	12°42	21°37	18°R42	21°48	27°31	9°42	10°27	27°26	15° 5	S 24
M 25	18 11 2	3° 5'46	29°47	8°53	17°23	0 [♂] 5	12°35	21°43	18°41	21°47	27°30	9°38	10°24	27°32	15° 2	M 25
T 26	18 14 58	4° 2'59	11 [♂] ♂41	8°20	18°10	0°48	12°28	21°49	18°41	21°46	27°28	9°33	10°21	27°39	15° 0	T 26
W 27	18 18 55	5° 0'12	23°43	7°45	18°57	1°31	12°21	21°55	18°41	21°45	27°26	9°25	10°18	27°46	14°58	W 27
T 28	18 22 52	5°57'24	5 [♂] ♂56	7°10	19°44	2°15	12°15	22° 1	18°41	21°44	27°25	9°15	10°15	27°52	14°56	T 28
F 29	18 26 48	6°54'36	18°22	6°34	20°29	2°58	12° 9	22° 7	18°41	21°43	27°23	9° 4	10°11	27°59	14°53	F 29
S 30	18 30 45	7 [♂] ♂51'48	1 [♂] ♂ 1	5 [♂] ♂59	21 [♂] 13	3 [♂] ♂41	12 [♂] ♂ 2	22 [♂] 13	18 [♂] ♂41	21 [♂] ≈42	27 [♂] ♂22	8 [♂] ♂54	10 [♂] ♂ 8	28 [♂] ♂ 6	14 [♂] ≈51	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
F 1	21n58	26s50	5s 0	25n16	1n52	23n40	2n38	3n29	1s31	21s57	0n42	16n 7	1n16	5s16	0s46	14s25	0s16	16s23	7n 3	7s10	7s11	12s54	9s29	6n59	
S 2	22 7	28 6	4 55	25 7	1 45	23 27	2 36	3 47	1 31	21 56	0 42	16 6	1 16	5 15	0 46	14 25	0 16	16 23	7 3	7 15	7 12	12 58	9 29	6 59	
S 3	22 14	27 57	4 36	24 57	1 37	23 14	2 35	4 4	1 31	21 56	0 42	16 5	1 16	5 15	0 46	14 25	0 16	16 23	7 3	7 19	7 14	13 1	9 28	7 0	
M 4	22 22	26 19	4 3	24 46	1 28	23 0	2 33	4 21	1 31	21 55	0 42	16 3	1 16	5 15	0 46	14 25	0 16	16 23	7 3	7 23	7 15	13 4	9 28	7 0	
T 5	22 29	23 16	3 16	24 34	1 19	22 46	2 31	4 39	1 31	21 54	0 42	16 2	1 16	5 14	0 46	14 25	0 16	16 23	7 3	7 26	7 16	13 7	9 28	7 0	
W 6	22 35	18 58	2 19	24 21	1 9	22 32	2 29	4 56	1 31	21 54	0 42	16 0	1 16	5 14	0 46	14 25	0 16	16 23	7 3	7 28	7 17	13 10	9 28	7 1	
T 7	22 42	13 40	1 13	24 8	0 58	22 17	2 27	5 13	1 31	21 53	0 42	15 59	1 16	5 14	0 46	14 26	0 16	16 23	7 3	7 28	7 18	13 13	9 28	7 1	
F 8	22 47	7 38	0 2	23 53	0 46	22 1	2 25	5 30	1 31	21 52	0 42	15 57	1 16	5 13	0 46	14 26	0 16	16 23	7 3	7 28	7 20	13 16	9 28	7 2	
S 9	22 53	1 7	1n11	23 39	0 34	21 45	2 22	5 47	1 31	21 51	0 41	15 56	1 16	5 13	0 46	14 26	0 16	16 23	7 3	7 28	7 21	13 19	9 28	7 2	
S 10	22 58	5n35	2 21	23 23	0 21	21 29	2 20	6 4	1 31	21 51	0 41	15 54	1 16	5 13	0 46	14 26	0 16	16 23	7 3	7 29	7 22	13 22	9 28	7 2	
M11	23 3	12 6	3 23	23 7	0 7	21 13	2 17	6 21	1 31	21 50	0 41	15 53	1 16	5 13	0 46	14 26	0 16	16 23	7 3	7 30	7 23	13 25	9 28	7 3	
T 12	23 7	18 2	4 13	22 51	0s 8	20 56	2 14	6 38	1 31	21 49	0 41	15 51	1 16	5 12	0 46	14 26	0 16	16 23	7 3	7 32	7 24	13 28	9 28	7 3	
W13	23 11	22 58	4 46	22 35	0 23	20 39	2 11	6 54	1 31	21 48	0 41	15 49	1 16	5 12	0 46	14 27	0 16	16 23	7 2	7 35	7 26	13 31	9 28	7 4	
T 14	23 14	26 26	5 0	22 19	0 38	20 21	2 7	7 11	1 31	21 48	0 41	15 48	1 16	5 12	0 47	14 27	0 16	16 23	7 2	7 39	7 27	13 34	9 28	7 4	
F 15	23 17	28 5	4 55	22 2	0 54	20 3	2 4	7 27	1 31	21 47	0 41	15 46	1 16	5 12	0 47	14 27	0 16	16 23	7 2	7 43	7 28	13 37	9 28	7 4	
S 16	23 20	27 49	4 31	21 46	1 10	19 45	2 0	7 44	1 30	21 46	0 41	15 44	1 16	5 12	0 47	14 27	0 16	16 23	7 2	7 47	7 29	13 40	9 28	7 5	
S 17	23 22	25 45	3 51	21 30	1 27	19 27	1 56	8 0	1 30	21 45	0 40	15 42	1 16	5 12	0 47	14 28	0 16	16 23	7 2	7 51	7 30	13 43	9 28	7 5	
M18	23 24	22 13	2 59	21 14	1 44	19 8	1 52	8 16	1 30	21 45	0 40	15 41	1 16	5 12	0 47	14 28	0 16	16 23	7 2	7 53	7 32	13 46	9 28	7 5	
T 19	23 25	17 40	1 58	20 58	2 0	18 49	1 47	8 32	1 30	21 44	0 40	15 39	1 16	5 12	0 47	14 28	0 16	16 23	7 2	7 55	7 33	13 49	9 29	7 6	
W20	23 26	12 27	0 53	20 42	2 17	18 30	1 43	8 48	1 30	21 43	0 40	15 37	1 16	5 12	0 47	14 28	0 16	16 23	7 2	7 56	7 34	13 52	9 29	7 6	
T 21	23 26	6 52	0s12	20 28	2 33	18 11	1 38	9 4	1 30	21 42	0 40	15 35	1 16	5 12	0 47	14 29	0 16	16 23	7 2	7 56	7 35	13 55	9 29	7 6	
F 22	23 26	1 10	1 16	20 13	2 50	17 51	1 33	9 20	1 29	21 42	0 40	15 33	1 16	5 12	0 47	14 29	0 16	16 24	7 2	7 56	7 36	13 58	9 29	7 7	
S 23	23 26	4s30	2 16	20 0	3 5	17 31	1 28	9 36	1 29	21 41	0 39	15 31	1 16	5 12	0 47	14 29	0 16	16 24	7 2	7 56	7 38	14 1	9 30	7 7	
S 24	23 25	9 57	3 9	19 47	3 20	17 11	1 23	9 51	1 29	21 40	0 39	15 30	1 16	5 12	0 47	14 30	0 16	16 24	7 1	7 56	7 39	14 4	9 30	7 7	
M25	23 24	15 2	3 54	19 35	3 34	16 51	1 17	10 7	1 29	21 40	0 39	15 28	1 16	5 12	0 47	14 30	0 16	16 24	7 1	7 57	7 40	14 7	9 30	7 8	
T 26	23 23	19 36	4 29	19 24	3 48	16 31	1 11	10 22	1 28	21 39	0 39	15 26	1 15	5 12	0 47	14 30	0 16	16 24	7 1	7 59	7 41	14 10	9 30	7 8	
W27	23 21	23 25	4 52	19 14	4 0	16 11	1 5	10 38	1 28	21 38	0 39	15 24	1 15	5 12	0 47	14 31	0 16	16 24	7 1	8 2	7 42	14 13	9 31	7 8	
T 28	23 18	26 16	5 3	19 5	4 11	15 50	0 59	10 53	1 28	21 38	0 39	15 22	1 15	5 12	0 47	14 31	0 16	16 24	7 1	8 6	7 44	14 16	9 31	7 9	
F 29	23 16	27 54	4 59	18 57	4 20	15 30	0 53	11 8	1 28	21 37	0 38	15 20	1 15	5 12	0 47	14 31	0 16	16 24	7 1	8 10	7 45	14 19	9 31	7 9	
S 30	23n12	28s 7	4s41	18n50	4s28	15n 9	0n46	11n23	1s27	21s36	0n38	15n18	1n15	5s12	0s47	14s32	0s16	16s24	7n 1	8s14	7s46	14s22	9s32	7n	

ASTRODIENST EPHEMERIS for the year 2007

geocentric

JULY 2007

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 34 41	8°48'59	13°35'55	5°R25	21°15'57	4°8'24	11°R56	22°19'19	18°R40	21°R41	27°R20	8°R44	10°H 5	28°12'12	14°R49	S 1
M 2	18 38 38	9°46'11	27° 1	4°52'52	22°39' 7	5° 7	11°R50	22°25' 7	18°H40	21°R40	27°R19	8°H36	10° 2	28°19' 7	14°R46	M 2
T 3	18 42 34	10°43'22	10°20'20	4°22' 3	23°21' 3	5°50' 3	11°44' 3	22°32' 3	18°39' 3	21°39' 3	27°17' 3	8°30' 3	9°59' 3	28°26' 3	14°44' 3	T 3
W 4	18 46 31	11°40'33	23°50'33	3°54' 2	24° 1	6°33' 2	11°38' 2	22°38' 2	18°39' 2	21°38' 2	27°16' 2	8°27' 2	9°56' 2	28°33' 2	14°41' 2	W 4
T 5	18 50 27	12°37'44	7°H30	3°29' 2	24°41' 2	7°16' 2	11°33' 2	22°44' 2	18°38' 2	21°37' 2	27°14' 2	8°D26	9°52' 2	28°39' 2	14°39' 2	T 5
F 6	18 54 24	13°34'56	21°19' 3	3° 9	25°19' 3	7°58' 3	11°27' 3	22°51' 3	18°38' 3	21°36' 3	27°13' 3	8°27' 3	9°49' 3	28°46' 3	14°36' 3	F 6
S 7	18 58 21	14°32'08	5°Y17	2°52' 2	25°56' 2	8°41' 2	11°22' 2	22°57' 2	18°37' 2	21°34' 2	27°11' 2	8°28' 2	9°46' 2	28°53' 2	14°33' 2	S 7
S 8	19 2 17	15°29'20	19°24' 2	2°39' 2	26°32' 2	9°23' 2	11°17' 2	23° 4	18°37' 2	21°33' 2	27°10' 2	8°R28	9°43' 2	28°59' 2	14°31' 2	S 8
M 9	19 6 14	16°26'32	3°H38	2°31' 2	27° 7	10° 6	11°12' 2	23°11' 2	18°36' 2	21°32' 2	27° 8	8°27' 2	9°40' 2	29° 6	14°28' 2	M 9
T 10	19 10 10	17°23'45	17°57' 2	2°D28	27°40' 2	10°48' 2	11° 7	23°17' 2	18°35' 2	21°31' 2	27° 7	8°23' 2	9°37' 2	29°13' 2	14°25' 2	T 10
W11	19 14 7	18°20'59	2°H18	2°30' 2	28°12' 2	11°30' 2	11° 2	23°24' 2	18°34' 2	21°29' 2	27° 6	8°18' 2	9°33' 2	29°19' 2	14°23' 2	W11
T 12	19 18 3	19°18'13	16°36' 2	2°38' 2	28°43' 2	12°13' 2	10°57' 2	23°31' 2	18°34' 2	21°28' 2	27° 4	8°11' 2	9°30' 2	29°26' 2	14°20' 2	T 12
F 13	19 22 0	20°15'27	0°547	2°50' 2	29°12' 2	12°55' 2	10°53' 2	23°37' 2	18°33' 2	21°27' 2	27° 3	8° 4	9°27' 2	29°33' 2	14°17' 2	F 13
S 14	19 25 57	21°12'42	14°46' 3	3° 8	29°40' 3	13°37' 3	10°48' 3	23°44' 3	18°32' 3	21°25' 3	27° 1	7°56' 3	9°24' 3	29°39' 3	14°14' 3	S 14
S 15	19 29 53	22° 9'57	28°28' 3	3°31' 3	0°H 6	14°18' 3	10°44' 3	23°51' 3	18°31' 3	21°24' 3	27° 0	7°50' 3	9°21' 3	29°46' 3	14°11' 3	S 15
M16	19 33 50	23° 7'12	11°H50	4° 0	0°31' 3	15° 0	10°40' 3	23°58' 3	18°30' 3	21°23' 3	26°59' 3	7°45' 3	9°17' 3	29°53' 3	14° 8	M16
T 17	19 37 46	24° 4'27	24°51' 3	4°34' 3	0°53' 3	15°42' 3	10°36' 3	24° 5	18°29' 3	21°21' 3	26°57' 3	7°43' 3	9°14' 3	29°59' 3	14° 5	T 17
W18	19 41 43	25° 1'43	7°H33	5°13' 3	1°15' 3	16°23' 3	10°33' 3	24°12' 3	18°28' 3	21°20' 3	26°56' 3	7°D42	9°11' 3	0°H 6	14° 2	W18
T 19	19 45 39	25°58'59	19°56' 3	5°58' 3	1°34' 3	17° 5	10°29' 3	24°19' 3	18°26' 3	21°18' 3	26°55' 3	7°42' 3	9° 8	0°H 6	13°59' 3	T 19
F 20	19 49 36	26°56'14	2°H 4	6°47' 3	1°51' 3	17°46' 3	10°26' 3	24°26' 3	18°25' 3	21°17' 3	26°53' 3	7°44' 3	9° 5	0°20' 3	13°56' 3	F 20
S 21	19 53 32	27°53'31	14° 2	7°42' 3	2° 7	18°27' 3	10°22' 3	24°33' 3	18°24' 3	21°15' 3	26°52' 3	7°45' 3	9° 2	0°26' 3	13°53' 3	S 21
S 22	19 57 29	28°50'47	25°54' 3	8°42' 3	2°21' 3	19° 8	10°19' 3	24°40' 3	18°23' 3	21°14' 3	26°51' 3	7°R46	8°58' 3	0°33' 3	13°50' 3	S 22
M23	20 1 26	29°48'04	7°H46	9°48' 3	2°32' 3	19°49' 3	10°17' 3	24°47' 3	18°21' 3	21°12' 3	26°49' 3	7°46' 3	8°55' 3	0°40' 3	13°47' 3	M23
T 24	20 5 22	0°H45'21	19°42' 3	10°58' 3	2°42' 3	20°30' 3	10°14' 3	24°55' 3	18°20' 3	21°11' 3	26°48' 3	7°44' 3	8°52' 3	0°46' 3	13°44' 3	T 24
W25	20 9 19	1°42'38	1°H47	12°13' 3	2°49' 3	21°11' 3	10°12' 3	25° 2	18°19' 3	21° 9	26°47' 3	7°41' 3	8°49' 3	0°53' 3	13°40' 3	W25
T 26	20 13 15	2°39'56	14° 4	13°32' 3	2°54' 3	21°52' 3	10° 9	25° 9	18°17' 3	21° 8	26°46' 3	7°36' 3	8°46' 3	1° 0	13°37' 3	T 26
F 27	20 17 12	3°37'14	26°38' 3	14°57' 3	2°57' 3	22°32' 3	10° 7	25°16' 3	18°16' 3	21° 6	26°45' 3	7°31' 3	8°43' 3	1° 6	13°34' 3	F 27
S 28	20 21 8	4°34'33	9°H29	16°26' 3	2°R57	23°13' 3	10° 5	25°24' 3	18°14' 3	21° 5	26°44' 3	7°25' 3	8°39' 3	1°13' 3	13°31' 3	S 28
S 29	20 25 5	5°31'52	22°38' 3	17°59' 3	2°55' 3	23°53' 3	10° 3	25°31' 3	18°13' 3	21° 3	26°42' 3	7°20' 3	8°36' 3	1°20' 3	13°28' 3	S 29
M30	20 29 1	6°29'12	6°H 4	19°36' 3	2°51' 3	24°33' 3	10° 2	25°38' 3	18°11' 3	21° 2	26°41' 3	7°17' 3	8°33' 3	1°27' 3	13°24' 3	M30
T 31	20 32 58	7°H26'33	19°H46	21°H18	2°H45	25°H13	10°H 0	25°H46	18°H10	21°H 0	26°H40	7°H14	8°H30	1°H33	13°H21	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	23n 9	26s50	4s 9	18n45	4s35	14n49	0n39	11n37	1s27	21s36	0n38	15n16	1n15	5s12	0s47	14s32	0s16	16s24	7n 0	8s18	7s47	14s25	9s32	7n 9	8s21	7s48	14s28
M 2	23 5	24 4	3 22	18 41	4 40	14 28	0 32	11 52	1 27	21 35	0 38	15 14	1 15	5 13	0 47	14 32	0 16	16 25	7 0	8 21	7 48	14 28	9 33	7 10	8 23	7 50	14 31
T 3	23 0	19 58	2 24	18 38	4 44	14 7	0 25	12 7	1 26	21 34	0 38	15 12	1 15	5 13	0 47	14 33	0 16	16 25	7 0	8 23	7 50	14 31	9 33	7 10	8 24	7 51	14 34
W 4	22 56	14 48	1 17	18 37	4 46	13 47	0 17	12 21	1 26	21 34	0 38	15 9	1 15	5 13	0 47	14 33	0 16	16 25	7 0	8 24	7 51	14 34	9 34	7 10	8 24	7 52	14 37
T 5	22 50	8 50	0 5	18 37	4 46	13 26	0 9	12 35	1 26	21 33	0 37	15 7	1 15	5 13	0 47	14 33	0 16	16 25	7 0	8 24	7 52	14 37	9 34	7 10	8 24	7 53	14 40
F 6	22 45	2 24	1n 9	18 39	4 45	13 6	0 1	12 49	1 25	21 33	0 37	15 5	1 15	5 13	0 47	14 34	0 16	16 25	7 0	8 24	7 53	14 40	9 35	7 11	8 24	7 54	14 43
S 7	22 39	4n14	2 19	18 42	4 43	12 46	0s 7	13 3	1 25	21 32	0 37	15 3	1 15	5 14	0 47	14 34	0 16	16 25	7 0	8 24	7 54	14 43	9 35	7 11	8 24	7 55	14 46
S 8	22 32	10 42	3 22	18 46	4 39	12 25	0 16	13 17	1 24	21 32	0 37	15 1	1 15	5 14	0 47	14 35	0 16	16 25	6 59	8 24	7 56	14 46	9 36	7 11	8 24	7 57	14 49
M 9	22 26	16 41	4 12	18 51	4 34	12 5	0 25	13 31	1 24	21 31	0 37	14 59	1 15	5 14	0 47	14 35	0 16	16 26	6 59	8 24	7 57	14 49	9 36	7 11	8 25	7 58	14 52
T 10	22 19	21 47	4 48	18 58	4 28	11 45	0 34	13 45	1 24	21 31	0 36	14 57	1 15	5 15	0 48	14 35	0 16	16 26	6 59	8 25	7 59	14 52	9 37	7 12	8 25	7 59	14 54
W11	22 11	25 36	5 5	19 5	4 20	11 25	0 43	13 58	1 23	21 30	0 36	14 54	1 15	5 15	0 48	14 36	0 16	16 26	6 59	8 27	7 58	14 54	9 37	7 12	8 27	7 59	14 57
T 12	22 3	27 48	5 4	19 14	4 11	11 5	0 53	14 11	1 23	21 30	0 36	14 52	1 15	5 15	0 48	14 36	0 16	16 26	6 59	8 30	8 0	14 57	9 38	7 12	8 30	8 1	15 0
F 13	21 55	28 10	4 43	19 23	4 2	10 46	1 3	14 24	1 22	21 29	0 36	14 50	1 15	5 16	0 48	14 37	0 16	16 26	6 58	8 33	8 2	15 0	9 39	7 12	8 33	8 3	15 3
S 14	21 46	26 42	4 6	19 33	3 51	10 27	1 13	14 37	1 22	21 29	0 36	14 48	1 15	5 16	0 48	14 37	0 16	16 26	6 58	8 36	8 3	15 3	9 39	7 12	8 36	8 4	15 6
S 15	21 37	23 40	3 16	19 43	3 40	10 8	1 24	14 50	1 21	21 28	0 35	14 45	1 15	5 16	0 48	14 38	0 16	16 26	6 58	8 38	8 4	15 6	9 40	7 12	8 38	8 5	15 9
M16	21 28	19 24	2 15	19 55	3 28	9 49	1 34	15 3	1 21	21 28	0 35	14 43	1 15	5 17	0 48	14 38	0 16	16 27	6 58	8 40	8 5	15 9	9 41	7 13	8 40	8 6	15 12
T 17	21 18	14 19	1 9	20 6	3 16	9 31	1 45	15 15	1 20	21 28	0 35	14 41	1 15	5 17	0 48	14 39	0 16	16 27	6 58	8 41	8 6	15 12	9 41	7 13	8 41	8 7	15 15
W18	21 8	8 45	0 1	20 17	3 3	9 13	1 57	15 28	1 20	21 27	0 35	14 38	1 15	5 18	0 48	14 39	0 16	16 27	6 57	8 41	8 8	15 15	9 42	7 13	8 41	8 9	15 18
T 19	20 57	2 59	1s 6	20 29	2 49	8 55	2 8	15 40	1 19	21 27	0 35	14 36	1 15	5 18	0 48	14 40	0 16	16 27	6 57	8 41	8 9	15 18	9 43	7 13	8 41	8 10	15 21
F 20	20 46	2s47	2 8	20 40	2 36	8 38	2 20	15 52	1 19	21 27	0 34	14 34	1 15	5 19	0 48	14 40	0 16	16 27	6 57	8 40	8 10	15 21	9 43	7 13	8 40	8 11	15 24
S 21	20 35	8 22	3 4	20 52	2 22	8 21	2 32	16 4	1 18	21 26	0 34	14 31	1 15	5 19	0 48	14 40	0 16	16 28	6 57	8 40	8 11	15 24	9 44	7 13	8 40	8 12	15 26
S 22	20 24	13 36	3 52	21 2	2 7	8 5	2 44	16 16	1 18	21 26	0 34	14 29	1 15	5 20	0 48	14 41	0 16	16 28	6 57	8 39	8 12	15 26	9 45	7 13	8 39	8 13	15 29
M23	20 12	18 21	4 30	21 12	1 53	7 49	2 56	16 27	1 17	21 26	0 34	14 27	1 15	5 20	0 48	14 41	0 16	16 28	6 56	8 39	8 14	15 29	9 46	7 13	8 39	8 15	15 32
T 24	19 59	22 24	4 56	21 21	1 39	7 34	3 9	16 39	1 17	21 26	0 34	14 24	1 15	5 21	0 48	14 42	0 16	16 28	6 56	8 40	8 15	15 32	9 47	7 14	8 40	8 16	15 35
W25	19 47	25 34	5 9	21 29	1 24	7 20	3 22	16 50	1 16	21 26	0 33	14 22	1 15	5 21	0 48	14 42	0 16	16 28	6 56	8 41	8 16	15 35	9 47	7 14	8 41	8 17	15 38
T 26	19 34	27 36	5 9	21 36	1 10	7 6	3 35	17 1	1 15	21 26	0 33	14 19	1 16	5 22	0 48	14 43	0 16	16 29	6 56	8 43	8 17	15 38	9 48	7 14	8 43	8 18	15 41
F 27	19 21	28 18	4 54	21 41	0 56	6 53	3 48	17 12	1 15	21 25	0 33	14 17	1 16	5 23	0 48	14 43	0 17	16 29	6 55	8 45	8 18	15 41	9 49	7 14	8 45	8 19	15 44
S 28	19 7	27 30	4 24	21 44	0 42	6 40	4 1	17 23	1 14	21 25	0 33	14 15	1 16	5 23	0 48	14 44	0 17	16 29	6 55	8 47	8 19	15 44	9 50	7 14	8 47	8 20	15 47
S 29	18 53	25 9	3 40	21 46	0 28	6 28	4 15	17 33	1 13	21 25	0 33	14 12	1 16	5 24	0 48	14 44	0 17	16 29	6 55	8 49	8 21	15 47	9 51	7 14	8 49	8 22	15 50
M30	18 39	21 22	2 42	21 46	0 15	6 17	4 28	17 44	1 13	21 25	0 32	14 10	1 16	5 25	0 48	14 45	0 17	16 29	6 55	8 50	8 22	15 49	9 51	7 14	8 50	8 23	15 52
T 31	18n25	16s23	1s34	21n43	0s 2	6n 7	4s41	17n54	1s12	21s25	0n32	14n 7	1n16	5s25	0s48	14s45	0s17	16s30	6n54	8s51	8s23	15s52	9s52	7n14	8s24	8s24	15s53

ASTRODIENST EPHEMERIS for the year 2007

geocentric

AUGUST 2007

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 36 55	8♂23'55	3♂41	23♂3	2♂R36	25♂53	9♂R59	25♂53	18♂R 8	20♂R59	26♂R39	7♂D13	8♂27	1♂40	13♂R18	W 1
T 2	20 40 51	9♂21'17	17♂46	24♂51	2♂m24	26♂33	9♂R58	26♂1	18♂6	20♂R57	26♂R38	7♂13	8♂23	1♂47	13♂R15	T 2
F 3	20 44 48	10♂18'40	1♂57	26♂42	2♂11	27♂13	9♂57	26♂8	18♂5	20♂55	26♂37	7♂14	8♂20	1♂53	13♂12	F 3
S 4	20 48 44	11♂16'05	16♂11	28♂36	1♂55	27♂52	9♂57	26♂15	18♂3	20♂54	26♂36	7♂16	8♂17	2♂0	13♂8	S 4
S 5	20 52 41	12♂13'31	0♂26	0♂233	1♂36	28♂32	9♂56	26♂23	18♂1	20♂52	26♂35	7♂17	8♂14	2♂7	13♂5	S 5
M 6	20 56 37	13♂10'58	14♂39	2♂32	1♂16	29♂11	9♂56	26♂30	17♂59	20♂51	26♂34	7♂R17	8♂11	2♂13	13♂2	M 6
T 7	21 0 34	14♂8'27	28♂49	4♂32	0♂53	29♂50	9♂D56	26♂38	17♂57	20♂49	26♂33	7♂17	8♂8	2♂20	12♂59	T 7
W 8	21 4 30	15♂5'56	12♂II52	6♂34	0♂28	0♂II29	9♂56	26♂45	17♂56	20♂47	26♂32	7♂15	8♂4	2♂27	12♂55	W 8
T 9	21 8 27	16♂3'28	26♂47	8♂36	0♂1	1♂8	9♂56	26♂53	17♂54	20♂46	26♂31	7♂13	8♂1	2♂33	12♂52	T 9
F 10	21 12 24	17♂1'00	10♂231	10♂40	29♂233	1♂47	9♂57	27♂1	17♂52	20♂44	26♂31	7♂10	7♂58	2♂40	12♂49	F 10
S 11	21 16 20	17♂58'34	24♂3	12♂43	29♂2	2♂26	9♂57	27♂8	17♂50	20♂43	26♂30	7♂7	7♂55	2♂47	12♂46	S 11
S 12	21 20 17	18♂56'09	7♂20	14♂47	28♂30	3♂4	9♂58	27♂16	17♂48	20♂41	26♂29	7♂5	7♂52	2♂54	12♂42	S 12
M13	21 24 13	19♂53'45	20♂22	16♂50	27♂57	3♂42	9♂59	27♂23	17♂46	20♂39	26♂28	7♂3	7♂49	3♂0	12♂39	M13
T 14	21 28 10	20♂51'22	3♂m9	18♂53	27♂22	4♂20	10♂0	27♂31	17♂44	20♂38	26♂27	7♂D3	7♂45	3♂7	12♂36	T 14
W15	21 32 6	21♂49'00	15♂39	20♂56	26♂47	4♂58	10♂2	27♂38	17♂42	20♂36	26♂27	7♂3	7♂42	3♂14	12♂33	W15
T 16	21 36 3	22♂46'40	27♂56	22♂57	26♂11	5♂36	10♂3	27♂46	17♂40	20♂34	26♂26	7♂3	7♂39	3♂20	12♂30	T 16
F 17	21 39 59	23♂44'20	10♂2	24♂58	25♂34	6♂14	10♂5	27♂54	17♂37	20♂33	26♂25	7♂5	7♂36	3♂27	12♂26	F 17
S 18	21 43 56	24♂42'02	21♂59	26♂58	24♂57	6♂52	10♂7	28♂1	17♂35	20♂31	26♂25	7♂6	7♂33	3♂34	12♂23	S 18
S 19	21 47 53	25♂39'45	3♂m51	28♂56	24♂19	7♂29	10♂9	28♂9	17♂33	20♂29	26♂24	7♂7	7♂29	3♂40	12♂20	S 19
M20	21 51 49	26♂37'28	15♂42	0♂m54	23♂42	8♂6	10♂11	28♂17	17♂31	20♂28	26♂23	7♂8	7♂26	3♂47	12♂17	M20
T 21	21 55 46	27♂35'13	27♂38	2♂50	23♂5	8♂43	10♂14	28♂24	17♂29	20♂26	26♂23	7♂R8	7♂23	3♂54	12♂14	T 21
W22	21 59 42	28♂32'59	9♂R42	4♂44	22♂29	9♂20	10♂16	28♂32	17♂27	20♂25	26♂22	7♂8	7♂20	4♂1	12♂11	W22
T 23	22 3 39	29♂30'47	22♂0	6♂38	21♂54	9♂57	10♂19	28♂40	17♂24	20♂23	26♂22	7♂7	7♂17	4♂7	12♂8	T 23
F 24	22 7 35	0♂m28'35	4♂35	8♂30	21♂20	10♂33	10♂22	28♂47	17♂22	20♂21	26♂21	7♂6	7♂14	4♂14	12♂5	F 24
S 25	22 11 32	1♂26'25	17♂30	10♂21	20♂47	11♂9	10♂25	28♂55	17♂20	20♂20	26♂21	7♂6	7♂10	4♂21	12♂2	S 25
S 26	22 15 28	2♂24'16	0♂R48	12♂10	20♂15	11♂46	10♂29	29♂2	17♂18	20♂18	26♂21	7♂5	7♂7	4♂27	11♂59	S 26
M27	22 19 25	3♂22'08	14♂28	13♂58	19♂46	12♂22	10♂32	29♂10	17♂15	20♂17	26♂20	7♂5	7♂4	4♂34	11♂56	M27
T 28	22 23 22	4♂20'02	28♂29	15♂45	19♂18	12♂57	10♂36	29♂18	17♂13	20♂15	26♂20	7♂4	7♂1	4♂41	11♂53	T 28
W29	22 27 18	5♂17'57	12♂R47	17♂30	18♂52	13♂33	10♂40	29♂25	17♂11	20♂13	26♂20	7♂D4	6♂58	4♂47	11♂50	W29
T 30	22 31 15	6♂15'53	27♂19	19♂14	18♂28	14♂8	10♂44	29♂33	17♂8	20♂12	26♂19	7♂4	6♂55	4♂54	11♂47	T 30
F 31	22 35 11	7♂m13'52	11♂57	20♂m57	18♂2	14♂II44	10♂R48	29♂240	17♂6	20♂R10	26♂R19	7♂R4	6♂51	5♂m1	11♂R44	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
W 1	18n10	10s27	0s19	21n39	0n10	5n57	4s55	18n 4	1s11	21s25	0n32	14n 5	1n16	5s26	0s48	14s46
T 2	17 55	3 57	0n58	21 31	0 22	5 49	5 8	18 14	1 11	21 25	0 32	14 2	1 16	5 27	0 48	14 47
F 3	17 39	2n47	2 12	21 22	0 33	5 41	5 22	18 24	1 10	21 25	0 32	14 0	1 16	5 27	0 48	14 47
S 4	17 24	9 24	3 18	21 9	0 44	5 35	5 35	18 34	1 9	21 26	0 31	13 57	1 16	5 28	0 48	14 48
S 5	17 8	15 33	4 12	20 54	0 53	5 29	5 48	18 43	1 9	21 26	0 31	13 55	1 16	5 29	0 48	14 48
M 6	16 52	20 51	4 50	20 36	1 2	5 24	6 1	18 52	1 8	21 26	0 31	13 52	1 16	5 29	0 48	14 49
T 7	16 35	24 57	5 11	20 16	1 10	5 20	6 13	19 1	1 7	21 26	0 31	13 50	1 16	5 30	0 48	14 49
W 8	16 18	27 31	5 13	19 53	1 17	5 17	6 26	19 10	1 6	21 26	0 30	13 47	1 16	5 31	0 48	14 50
T 9	16 1	28 20	4 56	19 28	1 24	5 15	6 38	19 19	1 6	21 27	0 30	13 45	1 16	5 32	0 48	14 50
F 10	15 44	27 24	4 23	19 0	1 29	5 14	6 49	19 28	1 5	21 27	0 30	13 42	1 16	5 32	0 48	14 51
S 11	15 27	24 30	3 35	18 30	1 34	5 14	7 0	19 36	1 4	21 27	0 30	13 40	1 16	5 33	0 48	14 51
S 12	15 9	20 58	2 37	17 58	1 38	5 15	7 10	19 44	1 3	21 27	0 30	13 37	1 16	5 34	0 48	14 52
M13	14 51	16 8	1 31	17 24	1 41	5 18	7 20	19 52	1 2	21 28	0 29	13 34	1 16	5 35	0 48	14 52
T 14	14 33	10 41	0 22	16 48	1 43	5 21	7 29	20 0	1 2	21 28	0 29	13 32	1 16	5 36	0 48	14 53
W15	14 14	4 56	0s47	16 11	1 45	5 24	7 38	20 8	1 1	21 29	0 29	13 29	1 16	5 36	0 48	14 53
T 16	13 55	0s55	1 53	15 32	1 46	5 29	7 45	20 15	1 0	21 29	0 29	13 27	1 16	5 37	0 49	14 54
F 17	13 37	6 37	2 52	14 52	1 46	5 35	7 52	20 23	0 59	21 29	0 29	13 24	1 16	5 38	0 49	14 54
S 18	13 17	12 1	3 44	14 10	1 45	5 41	7 58	20 30	0 58	21 30	0 28	13 22	1 17	5 39	0 49	14 55
S 19	12 58	16 57	4 25	13 28	1 44	5 48	8 3	20 37	0 57	21 30	0 28	13 19	1 17	5 40	0 49	14 56
M20	12 38	21 14	4 55	12 45	1 42	5 56	8 7	20 44	0 56	21 31	0 28	13 16	1 17	5 41	0 49	14 56
T 21	12 19	24 42	5 12	12 1	1 40	6 5	8 11	20 51	0 55	21 31	0 28	13 14	1 17	5 42	0 49	14 57
W22	11 59	27 7	5 16	11 17	1 37	6 14	8 13	20 57	0 54	21 32	0 28	13 11	1 17	5 42	0 49	14 57
T 23	11 39	28 18	5 6	10 32	1 33	6 23	8 15	21 4	0 53	21 33	0 28	13 9	1 17	5 43	0 49	14 58
F 24	11 18	28 3	4 41	9 46	1 30	6 33	8 16	21 10	0 53	21 33	0 27	13 6	1 17	5 44	0 49	14 58
S 25	10 58	26 17	4 1	9 0	1 25	6 44	8 16	21 16	0 52	21 34	0 27	13 3	1 17	5 45	0 49	14 59
S 26	10 37	23 2	3 8	8 15	1 21	6 54	8 15	21 22	0 51	21 35	0 27	13 1	1 17	5 46	0 49	14 59
M27	10 16	18 26	2 2	7 28	1 16	7 5	8 13	21 28	0 50	21 35	0 27	12 58	1 17	5 47	0 49	15 0
T 28	9 55	12 45	0 47	6 42	1 10	7 16	8 10	21 33	0 48	21 36	0 27	12 56	1 17	5 48	0 49	15 0
W29	9 34	6 16	0n32	5 56	1 5	7 27	8 7	21 39	0 47	21 37	0 26	12 53	1 17	5 49	0 49	15 1
T 30	9 13	0n37	1 50	5 10	0 59	7 38	8 3	21 44	0 46	21 37	0 26	12 50	1 17	5 50	0 49	15 1
F 31	8n51	7n31	3n 2	4n24	0n53	7n49	7s58	21n49	0s45	21s38	0n26	12n48	1n18	5s51	0s49	15s 2

Julian Day Number = 2454313.5, Delta T = 65.33 sec
 Ecliptic obliquity = 23°26'26", Nutation = 0°00'08", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°50'46", Lahiri = 23°57'47"

ASTRODIENST EPHEMERIS for the year 2007

geocentric

SEPTEMBER 2007

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 39 8	8♍11'52	26♍36	22♍38	17°R46	15♍19	10♍52	29♍48	17°R 4	20°R 9	26°R19	7°R 4	6♍48	5♍ 8	11°R42	S 1
S 2	22 43 4	9° 9'54	11♍ 9	24°19	17♍29	15°53	10°57	29°56	17♍ 1	20°≈ 7	26♍19	7♍ 4	6°45	5°14	11°≈39	S 2
M 3	22 47 1	10° 7'58	25°33	25°58	17°14	16°28	11° 1	0♍ 3	16°59	20° 6	26°18	7° 4	6°42	5°21	11°36	M 3
T 4	22 50 57	11° 6'04	9♍43	27°35	17° 2	17° 2	11° 6	0°11	16°56	20° 4	26°18	7°D 4	6°39	5°28	11°34	T 4
W 5	22 54 54	12° 4'12	23°38	29°12	16°52	17°37	11°11	0°18	16°54	20° 3	26°18	7° 4	6°35	5°34	11°31	W 5
T 6	22 58 51	13° 2'22	7♍17	0♍47	16°44	18°11	11°16	0°26	16°52	20° 1	26°18	7° 4	6°32	5°41	11°28	T 6
F 7	23 2 47	14° 0'34	20°41	2°22	16°39	18°44	11°22	0°33	16°49	20° 0	26°18	7° 5	6°29	5°48	11°26	F 7
S 8	23 6 44	14°58'48	3♍49	3°54	16°36	19°18	11°27	0°41	16°47	19°58	26°D18	7° 6	6°26	5°54	11°23	S 8
S 9	23 10 40	15°57'04	16°43	5°26	16°D36	19°51	11°33	0°48	16°45	19°57	26°18	7° 6	6°23	6° 1	11°21	S 9
M10	23 14 37	16°55'22	29°23	6°57	16°37	20°24	11°39	0°56	16°42	19°55	26°18	7° 7	6°20	6° 8	11°18	M10
T 11	23 18 33	17°53'42	11♍52	8°26	16°42	20°57	11°45	1° 3	16°40	19°54	26°18	7°R 7	6°16	6°15	11°16	T 11
W12	23 22 30	18°52'03	24° 9	9°54	16°48	21°29	11°51	1°11	16°37	19°53	26°18	7° 6	6°13	6°21	11°14	W12
T 13	23 26 26	19°50'27	6♍17	11°21	16°57	22° 2	11°57	1°18	16°35	19°51	26°19	7° 5	6°10	6°28	11°11	T 13
F 14	23 30 23	20°48'52	18°17	12°47	17° 8	22°34	12° 3	1°25	16°33	19°50	26°19	7° 3	6° 7	6°35	11° 9	F 14
S 15	23 34 19	21°47'18	0♍11	14°12	17°21	23° 5	12°10	1°33	16°30	19°49	26°19	7° 1	6° 4	6°41	11° 7	S 15
S 16	23 38 16	22°45'47	12° 2	15°35	17°35	23°37	12°17	1°40	16°28	19°47	26°19	6°59	6° 0	6°48	11° 5	S 16
M17	23 42 13	23°44'17	23°53	16°57	17°52	24° 8	12°24	1°47	16°25	19°46	26°19	6°57	5°57	6°55	11° 3	M17
T 18	23 46 9	24°42'49	5♍48	18°18	18°11	24°39	12°31	1°55	16°23	19°45	26°20	6°55	5°54	7° 2	11° 1	T 18
W19	23 50 6	25°41'23	17°50	19°37	18°32	25°10	12°38	2° 2	16°21	19°43	26°20	6°54	5°51	7° 8	10°59	W19
T 20	23 54 2	26°39'58	0♍ 4	20°55	18°54	25°40	12°45	2° 9	16°18	19°42	26°21	6°D54	5°48	7°15	10°57	T 20
F 21	23 57 59	27°38'35	12°35	22°11	19°19	26°10	12°52	2°16	16°16	19°41	26°21	6°54	5°45	7°22	10°55	F 21
S 22	0 1 55	28°37'14	25°27	23°26	19°44	26°40	13° 0	2°23	16°14	19°40	26°21	6°56	5°41	7°28	10°53	S 22
S 23	0 5 52	29°35'54	8°≈44	24°39	20°12	27°10	13° 8	2°30	16°11	19°39	26°22	6°57	5°38	7°35	10°51	S 23
M24	0 9 48	0♍34'36	22°26	25°51	20°41	27°39	13°15	2°38	16° 9	19°38	26°22	6°58	5°35	7°42	10°50	M24
T 25	0 13 45	1°33'20	6♍35	27° 0	21°12	28° 8	13°23	2°45	16° 7	19°36	26°23	6°R59	5°32	7°48	10°48	T 25
W26	0 17 42	2°32'05	21° 8	28° 8	21°44	28°36	13°31	2°52	16° 4	19°35	26°23	6°58	5°29	7°55	10°47	W26
T 27	0 21 38	3°30'53	5♍59	29°14	22°17	29° 5	13°40	2°58	16° 2	19°34	26°24	6°57	5°26	8° 2	10°45	T 27
F 28	0 25 35	4°29'42	21° 2	0♍18	22°52	29°33	13°48	3° 5	16° 0	19°33	26°25	6°53	5°22	8° 9	10°44	F 28
S 29	0 29 31	5°28'34	6♍ 6	1°19	23°28	0♍ 0	13°56	3°12	15°58	19°32	26°25	6°50	5°19	8°15	10°42	S 29
S 30	0 33 28	6♍27'28	21♍ 3	2♍18	24° 6	0♍27	14°≈ 5	3♍19	15°≈56	19°≈31	26°≈26	6♍45	5♍16	8♍22	10°≈41	S 30

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	decl lat	
S 1	8n30	14n 0	4n 1	3n38	0n46	7n59	7s53	21n54	0s44	21s39	0n26	12n45	1n18	5s51	0s49	15s 2
S 2	8 8	19 41	4 45	2 52	0 40	8 10	7 47	21 59	0 43	21 40	0 26	12 43	1 18	5 52	0 49	15 3
M 3	7 46	24 10	5 11	2 6	0 33	8 21	7 41	22 3	0 42	21 41	0 25	12 40	1 18	5 53	0 49	15 3
T 4	7 24	27 8	5 17	1 21	0 26	8 31	7 34	22 8	0 41	21 41	0 25	12 37	1 18	5 54	0 49	15 4
W 5	7 2	28 21	5 4	0 36	0 18	8 41	7 27	22 12	0 40	21 42	0 25	12 35	1 18	5 55	0 49	15 4
T 6	6 40	27 48	4 34	0s 9	0 11	8 50	7 19	22 16	0 39	21 43	0 25	12 32	1 18	5 56	0 49	15 5
F 7	6 17	25 38	3 50	0 53	0 3	8 59	7 11	22 20	0 37	21 44	0 25	12 30	1 18	5 57	0 49	15 5
S 8	5 55	22 7	2 54	1 37	0s 4	9 8	7 3	22 24	0 36	21 45	0 25	12 27	1 18	5 58	0 49	15 6
S 9	5 32	17 35	1 51	2 21	0 12	9 17	6 54	22 28	0 35	21 46	0 24	12 25	1 18	5 59	0 49	15 6
M10	5 10	12 21	0 43	3 4	0 20	9 24	6 45	22 32	0 34	21 47	0 24	12 22	1 18	6 0	0 49	15 6
T 11	4 47	6 42	0s26	3 46	0 28	9 32	6 36	22 35	0 33	21 48	0 24	12 19	1 19	6 1	0 49	15 7
W12	4 24	0 54	1 33	4 28	0 36	9 39	6 27	22 39	0 31	21 49	0 24	12 17	1 19	6 2	0 49	15 7
T 13	4 1	4s52	2 34	5 10	0 44	9 45	6 17	22 42	0 30	21 50	0 24	12 14	1 19	6 3	0 49	15 8
F 14	3 38	10 23	3 28	5 51	0 52	9 51	6 8	22 45	0 29	21 51	0 23	12 12	1 19	6 4	0 49	15 8
S 15	3 15	15 29	4 13	6 31	1 0	9 57	5 58	22 48	0 27	21 52	0 23	12 9	1 19	6 5	0 49	15 9
S 16	2 52	19 59	4 46	7 11	1 8	10 1	5 48	22 51	0 26	21 53	0 23	12 7	1 19	6 5	0 49	15 9
M17	2 29	23 42	5 7	7 50	1 16	10 6	5 39	22 54	0 25	21 54	0 23	12 4	1 19	6 6	0 49	15 9
T 18	2 6	26 27	5 15	8 28	1 24	10 9	5 29	22 57	0 23	21 55	0 23	12 2	1 19	6 7	0 49	15 10
W19	1 43	28 1	5 10	9 5	1 32	10 13	5 19	22 59	0 22	21 56	0 23	11 59	1 20	6 8	0 49	15 10
T 20	1 20	28 16	4 50	9 42	1 40	10 15	5 9	23 2	0 21	21 57	0 22	11 57	1 20	6 9	0 49	15 11
F 21	0 56	27 6	4 16	10 18	1 48	10 17	4 59	23 4	0 19	21 58	0 22	11 54	1 20	6 10	0 49	15 11
S 22	0 33	24 28	3 29	10 53	1 55	10 19	4 49	23 6	0 18	22 0	0 22	11 52	1 20	6 11	0 49	15 11
S 23	0 10	20 29	2 29	11 27	2 3	10 20	4 40	23 8	0 16	22 1	0 22	11 50	1 20	6 12	0 49	15 12
M24	0s14	15 17	1 19	12 1	2 10	10 20	4 30	23 10	0 15	22 2	0 22	11 47	1 20	6 13	0 49	15 12
T 25	0 37	9 8	0 2	12 33	2 18	10 19	4 20	23 12	0 13	22 3	0 22	11 45	1 20	6 14	0 49	15 13
W26	1 0	2 20	1n17	13 4	2 25	10 19	4 10	23 14	0 12	22 4	0 22	11 42	1 20	6 14	0 49	15 13
T 27	1 24	4n43	2 32	13 34	2 32	10 17	4 1	23 16	0 10	22 5	0 21	11 40	1 21	6 15	0 49	15 13
F 28	1 47	11 35	3 38	14 3	2 38	10 15	3 51	23 18	0 9	22 6	0 21	11 38	1 21	6 16	0 49	15 14
S 29	2 11	17 47	4 29	14 30	2 45	10 12	3 42	23 19	0 7	22 8	0 21	11 35	1 21	6 17	0 49	15 14
S 30	2s34	22n51	5n 1	14s57	2s51	10n 9	3s32	23n21	0s 6	22s 9	0n21	11n33	1n21	6s18	0s49	15s14

Julian Day Number = 2454344.5, Delta T = 65.35 sec
 Ecliptic obliquity = 23°26'27", Nutation = 0°00'07", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°50'51", Lahiri = 23°57'51"

ASTRODIENST EPHEMERIS for the year 2007

geocentric

OCTOBER 2007

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 37 24	7♏26'24	5♏45	3♏14	24♏45	0♏54	14♏14	3♏26	15°R53	19°R30	26♏27	6°R42	5♏13	8♏29	10°R40	M 1
T 2	0 41 21	8°25'23	20° 6	4° 7	25°25	1°21	14°23	3°33	15♏51	19♏29	26°28	6♏39	5°10	8°35	10♏38	T 2
W 3	0 45 17	9°24'24	4♏ 4	4°56	26° 6	1°47	14°32	3°39	15°49	19°28	26°28	6°D38	5° 6	8°42	10°37	W 3
T 4	0 49 14	10°23'27	17°38	5°43	26°48	2°13	14°41	3°46	15°47	19°27	26°29	6°38	5° 3	8°49	10°36	T 4
F 5	0 53 11	11°22'32	0♏51	6°25	27°31	2°38	14°50	3°53	15°45	19°27	26°30	6°39	5° 0	8°56	10°35	F 5
S 6	0 57 7	12°21'40	13°44	7° 4	28°15	3° 3	14°59	3°59	15°43	19°26	26°31	6°41	4°57	9° 2	10°34	S 6
S 7	1 1 4	13°20'50	26°20	7°38	29° 0	3°28	15° 9	4° 6	15°41	19°25	26°32	6°42	4°54	9° 9	10°33	S 7
M 8	1 5 0	14°20'02	8♏44	8° 7	29°47	3°52	15°18	4°12	15°39	19°24	26°33	6°R43	4°51	9°16	10°32	M 8
T 9	1 8 57	15°19'17	20°57	8°31	0♏34	4°16	15°28	4°19	15°37	19°23	26°34	6°41	4°47	9°22	10°32	T 9
W10	1 12 53	16°18'33	3♏ 2	8°48	1°22	4°39	15°37	4°25	15°35	19°23	26°35	6°38	4°44	9°29	10°31	W10
T 11	1 16 50	17°17'52	15° 1	9° 0	2°10	5° 2	15°47	4°31	15°33	19°22	26°36	6°33	4°41	9°36	10°30	T 11
F 12	1 20 46	18°17'13	26°55	9°R 5	3° 0	5°25	15°57	4°38	15°31	19°21	26°37	6°27	4°38	9°43	10°30	F 12
S 13	1 24 43	19°16'35	8♏47	9° 2	3°50	5°47	16° 7	4°44	15°29	19°21	26°38	6°18	4°35	9°49	10°29	S 13
S 14	1 28 40	20°16'00	20°38	8°52	4°41	6° 8	16°18	4°50	15°27	19°20	26°39	6°10	4°32	9°56	10°29	S 14
M15	1 32 36	21°15'27	2♏29	8°34	5°33	6°29	16°28	4°56	15°25	19°20	26°40	6° 1	4°28	10° 3	10°28	M15
T 16	1 36 33	22°14'56	14°24	8° 7	6°26	6°50	16°38	5° 2	15°24	19°19	26°41	5°54	4°25	10° 9	10°28	T 16
W17	1 40 29	23°14'26	26°26	7°32	7°19	7°10	16°49	5° 8	15°22	19°19	26°43	5°49	4°22	10°16	10°28	W17
T 18	1 44 26	24°13'58	8♏38	6°48	8°13	7°30	16°59	5°14	15°20	19°18	26°44	5°45	4°19	10°23	10°28	T 18
F 19	1 48 22	25°13'32	21° 5	5°56	9° 7	7°49	17°10	5°20	15°18	19°18	26°45	5°D44	4°16	10°29	10°28	F 19
S 20	1 52 19	26°13'08	3♏50	4°57	10° 2	8° 7	17°21	5°25	15°17	19°17	26°46	5°44	4°12	10°36	10°D28	S 20
S 21	1 56 15	27°12'46	16°58	3°52	10°58	8°25	17°31	5°31	15°15	19°17	26°48	5°45	4° 9	10°43	10°28	S 21
M22	2 0 12	28°12'25	0♏33	2°41	11°54	8°43	17°42	5°37	15°14	19°17	26°49	5°R46	4° 6	10°50	10°28	M22
T 23	2 4 9	29°12'06	14°37	1°27	12°51	9° 0	17°53	5°42	15°12	19°16	26°50	5°46	4° 3	10°56	10°28	T 23
W24	2 8 5	0♏11'48	29° 8	0°11	13°49	9°16	18° 5	5°48	15°11	19°16	26°52	5°43	4° 0	11° 3	10°28	W24
T 25	2 12 2	1°11'33	14°9 4	28♏57	14°46	9°32	18°16	5°53	15° 9	19°16	26°53	5°39	3°57	11°10	10°29	T 25
F 26	2 15 58	2°11'19	29°17	27°45	15°45	9°47	18°27	5°59	15° 8	19°15	26°55	5°32	3°53	11°16	10°29	F 26
S 27	2 19 55	3°11'07	14♏37	26°39	16°44	10° 2	18°38	6° 4	15° 6	19°15	26°56	5°24	3°50	11°23	10°29	S 27
S 28	2 23 51	4°10'58	29°53	25°41	17°43	10°15	18°50	6° 9	15° 5	19°15	26°58	5°15	3°47	11°30	10°30	S 28
M29	2 27 48	5°10'50	14♏53	24°51	18°43	10°29	19° 1	6°14	15° 4	19°15	26°59	5° 6	3°44	11°37	10°31	M29
T 30	2 31 44	6°10'45	29°30	24°12	19°43	10°42	19°13	6°19	15° 2	19°15	27° 1	4°59	3°41	11°43	10°31	T 30
W31	2 35 41	7♏10'42	13♏39	23♏43	20♏44	10♏54	19♏25	6♏24	15♏ 1	19♏15	27♏ 2	4♏54	3♏37	11♏50	10♏32	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	2s57	26n23	5n12	15s22	2s57	10n 5	3s23	23n22	0s 4	22s10	0n21	11n31	1n21	6s19	0s49	15s14
T 2	3 20	28 7	5 4	15 45	3 2	10 0	3 14	23 24	0 2	22 11	0 21	11 28	1 21	6 19	0 49	15 15
W 3	3 44	28 0	4 38	16 7	3 8	9 55	3 5	23 25	0 1	22 12	0 20	11 26	1 21	6 20	0 48	15 15
T 4	4 7	26 11	3 56	16 27	3 12	9 50	2 56	23 26	0n 1	22 13	0 20	11 24	1 22	6 21	0 48	15 15
F 5	4 30	22 57	3 16	16 45	3 16	9 43	2 47	23 27	0 3	22 15	0 20	11 21	1 22	6 22	0 48	15 16
S 6	4 53	18 39	2 2	17 1	3 20	9 36	2 38	23 29	0 4	22 16	0 20	11 19	1 22	6 23	0 48	15 16
S 7	5 16	13 37	0 56	17 15	3 23	9 29	2 29	23 30	0 6	22 17	0 20	11 17	1 22	6 23	0 48	15 16
M 8	5 39	8 8	0s11	17 26	3 25	9 21	2 21	23 31	0 8	22 18	0 20	11 15	1 22	6 24	0 48	15 16
T 9	6 2	2 25	1 17	17 36	3 26	9 13	2 12	23 32	0 10	22 19	0 20	11 12	1 22	6 25	0 48	15 17
W10	6 25	3s19	2 18	17 42	3 27	9 3	2 4	23 33	0 11	22 21	0 19	11 10	1 22	6 26	0 48	15 17
T 11	6 48	8 52	3 13	17 45	3 26	8 54	1 56	23 34	0 13	22 22	0 19	11 8	1 23	6 26	0 48	15 17
F 12	7 10	14 4	3 58	17 45	3 24	8 44	1 48	23 35	0 15	22 23	0 19	11 6	1 23	6 27	0 48	15 17
S 13	7 33	18 44	4 33	17 41	3 21	8 33	1 40	23 36	0 17	22 24	0 19	11 4	1 23	6 28	0 48	15 17
S 14	7 55	22 40	4 56	17 34	3 17	8 22	1 32	23 37	0 19	22 25	0 19	11 2	1 23	6 29	0 48	15 18
M15	8 18	25 40	5 7	17 23	3 11	8 10	1 24	23 38	0 21	22 27	0 19	11 0	1 23	6 29	0 48	15 18
T 16	8 40	27 34	5 4	17 7	3 4	7 58	1 17	23 39	0 23	22 28	0 19	10 58	1 24	6 30	0 48	15 18
W17	9 2	28 11	4 48	16 47	2 55	7 45	1 9	23 40	0 25	22 29	0 18	10 56	1 24	6 31	0 48	15 18
T 18	9 24	27 28	4 19	16 22	2 44	7 32	1 2	23 41	0 27	22 30	0 18	10 54	1 24	6 31	0 48	15 18
F 19	9 46	25 21	3 37	15 53	2 31	7 18	0 55	23 42	0 29	22 31	0 18	10 52	1 24	6 32	0 48	15 18
S 20	10 7	21 56	2 43	15 19	2 17	7 4	0 48	23 43	0 31	22 32	0 18	10 50	1 24	6 32	0 48	15 19
S 21	10 29	17 20	1 39	14 42	2 1	6 50	0 41	23 44	0 33	22 34	0 18	10 48	1 24	6 33	0 48	15 19
M22	10 50	11 43	0 28	14 1	1 43	6 35	0 34	23 45	0 35	22 35	0 18	10 46	1 25	6 34	0 48	15 19
T 23	11 11	5 20	0n47	13 17	1 24	6 19	0 27	23 46	0 38	22 36	0 18	10 44	1 25	6 34	0 48	15 19
W24	11 32	1n31	2 2	12 32	1 4	6 3	0 20	23 47	0 40	22 37	0 17	10 42	1 25	6 35	0 48	15 19
T 25	11 53	8 28	3 10	11 47	0 44	5 47	0 14	23 48	0 42	22 38	0 17	10 40	1 25	6 35	0 48	15 19
F 26	12 14	15 3	4 6	11 2	0 23	5 30	0 8	23 49	0 44	22 39	0 17	10 39	1 25	6 36	0 48	15 19
S 27	12 35	20 45	4 45	10 19	0 2	5 13	0 2	23 50	0 47	22 40	0 17	10 37	1 26	6 36	0 48	15 19
S 28	12 55	25 3	5 3	9 39	0n17	4 55	0n 4	23 51	0 49	22 41	0 17	10 35	1 26	6 37	0 48	15 19
M29	13 15	27 33	5 0	9 4	0 36	4 37	0 10	23 53	0 51	22 42	0 17	10 33	1 26	6 37	0 48	15 19
T 30	13 35	28 4	4 37	8 33	0 54	4 19	0 16	23 54	0 54	22 43	0 17	10 32	1 26	6 38	0 48	15 19
W31	13s55	26n41	3n58	8s 8	1n 9	4n 0	0n22	23n55	0n56	22s45	0n17	10n30	1n26	6s38	0s48	15s19

Julian Day Number = 2454374.5, Delta T = 65.38 sec
 Ecliptic obliquity = 23°26'27", Nutation = 0°00'06", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°50'55", Lahiri = 23°57'55"

ASTRODIENST EPHEMERIS for the year 2007

geocentric

NOVEMBER 2007

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 39 38	8♈10'41	27♏19	23°R27	21♈45	11♏5	19♈36	6♈29	15°R 0	19°D15	27♈4	4°R52	3♈34	11♈57	10♈33	T 1
F 2	2 43 34	9°10'42	10♏32	23°D22	22°47	11°16	19°48	6°34	14♈59	19°15	27°5	4°D51	3°31	12°3	10°34	F 2
S 3	2 47 31	10°10'45	23°20	23♏28	23°49	11°26	20°0	6°39	14°58	19°15	27°7	4♈52	3°28	12°10	10°34	S 3
S 4	2 51 27	11°10'51	5♈49	23°44	24°51	11°35	20°12	6°43	14°57	19°15	27°9	4°R52	3°25	12°17	10°35	S 4
M 5	2 55 24	12°10'58	18°3	24°11	25°54	11°44	20°24	6°48	14°56	19°15	27°10	4°51	3°22	12°24	10°37	M 5
T 6	2 59 20	13°11'08	0♏6	24°47	26°57	11°51	20°36	6°52	14°55	19°15	27°12	4°48	3°18	12°30	10°38	T 6
W 7	3 3 17	14°11'19	12°3	25°31	28°0	11°59	20°49	6°57	14°54	19°16	27°14	4°42	3°15	12°37	10°39	W 7
T 8	3 7 13	15°11'33	23°55	26°23	29°4	12°5	21°1	7°1	14°53	19°16	27°15	4°34	3°12	12°44	10°40	T 8
F 9	3 11 10	16°11'48	5♈47	27°21	0♏8	12°10	21°13	7°5	14°52	19°16	27°17	4°22	3°9	12°50	10°41	F 9
S 10	3 15 7	17°12'05	17°38	28°25	1°12	12°15	21°25	7°10	14°52	19°16	27°19	4°9	3°6	12°57	10°43	S 10
S 11	3 19 3	18°12'24	29°31	29°34	2°17	12°19	21°38	7°14	14°51	19°17	27°21	3°55	3°3	13°4	10°44	S 11
M12	3 23 0	19°12'45	11♈27	0♈47	3°22	12°22	21°50	7°18	14°50	19°17	27°23	3°41	2°59	13°11	10°46	M12
T 13	3 26 56	20°13'07	23°27	2°4	4°27	12°25	22°3	7°21	14°50	19°17	27°25	3°28	2°56	13°17	10°47	T 13
W14	3 30 53	21°13'31	5♈34	3°24	5°33	12°26	22°16	7°25	14°49	19°18	27°26	3°18	2°53	13°24	10°49	W14
T 15	3 34 49	22°13'57	17°49	4°47	6°38	12°R27	22°28	7°29	14°49	19°18	27°28	3°11	2°50	13°31	10°51	T 15
F 16	3 38 46	23°14'23	0♈16	6°12	7°44	12°27	22°41	7°33	14°48	19°19	27°30	3°6	2°47	13°37	10°53	F 16
S 17	3 42 42	24°14'52	12°58	7°38	8°51	12°26	22°54	7°36	14°48	19°19	27°32	3°4	2°43	13°44	10°54	S 17
S 18	3 46 39	25°15'21	26°0	9°7	9°57	12°24	23°7	7°39	14°48	19°20	27°34	3°4	2°40	13°51	10°56	S 18
M19	3 50 36	26°15'51	9♈25	10°36	11°4	12°21	23°19	7°43	14°47	19°20	27°36	3°4	2°37	13°58	10°58	M19
T 20	3 54 32	27°16'23	23°16	12°7	12°11	12°18	23°32	7°46	14°47	19°21	27°38	3°3	2°34	14°4	11°0	T 20
W21	3 58 29	28°16'56	7♈34	13°38	13°18	12°14	23°45	7°49	14°47	19°22	27°40	3°0	2°31	14°11	11°2	W21
T 22	4 2 25	29°17'30	22°18	15°10	14°26	12°8	23°58	7°52	14°47	19°22	27°42	2°54	2°28	14°18	11°5	T 22
F 23	4 6 22	0♈18'06	7♈23	16°42	15°33	12°2	24°11	7°55	14°46	19°23	27°44	2°45	2°24	14°24	11°7	F 23
S 24	4 10 18	1°18'43	22°40	18°15	16°41	11°55	24°25	7°58	14°D46	19°24	27°46	2°35	2°21	14°31	11°9	S 24
S 25	4 14 15	2°19'21	7♈58	19°49	17°49	11°47	24°38	8°1	14°46	19°25	27°48	2°23	2°18	14°38	11°11	S 25
M26	4 18 11	3°20'01	23°6	21°22	18°58	11°39	24°51	8°3	14°47	19°26	27°50	2°12	2°15	14°45	11°14	M26
T 27	4 22 8	4°20'43	7♈53	22°56	20°6	11°29	25°4	8°6	14°47	19°27	27°52	2°2	2°12	14°51	11°16	T 27
W28	4 26 5	5°21'25	22°13	24°30	21°15	11°19	25°17	8°8	14°47	19°27	27°54	1°55	2°9	14°58	11°19	W28
T 29	4 30 1	6°22'10	6♈3	26°4	22°24	11°7	25°31	8°11	14°47	19°28	27°56	1°51	2°5	15°5	11°21	T 29
F 30	4 33 58	7♈22'56	19♈23	27♈38	23♈33	10♈55	25♈44	8♈13	14♈47	19°29	27°58	1°49	2°2	15°12	11°24	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	14s14	23n44	3n 6	7s49	1n23	3n41	0n27	23s57	0n58	22s46	0n16	10n28	1n27	6s39	0s48	15s19	0s17	16s58	6n27	9s44	10s12	19s58	11s 6	6n44			
F 2	14 33	19 37	2 6	7 36	1 36	3 22	0 33	23 58	1 1	22 47	0 16	10 27	1 27	6 39	0 48	15 19	0 17	16 58	6 27	9 44	10 13	20 1	11 7	6 43			
S 3	14 52	14 42	1 1	7 28	1 46	3 2	0 38	24 0	1 3	22 48	0 16	10 25	1 27	6 39	0 48	15 19	0 17	16 58	6 26	9 44	10 14	20 3	11 7	6 43			
S 4	15 11	9 18	0s 5	7 26	1 55	2 42	0 43	24 2	1 6	22 49	0 16	10 24	1 27	6 40	0 48	15 19	0 17	16 59	6 26	9 44	10 15	20 5	11 7	6 43			
M 5	15 30	3 39	1 10	7 29	2 2	2 22	0 48	24 4	1 8	22 50	0 16	10 22	1 27	6 40	0 48	15 19	0 17	16 59	6 26	9 44	10 16	20 8	11 7	6 42			
T 6	15 48	2s 2	2 10	7 37	2 8	2 1	0 53	24 5	1 11	22 51	0 16	10 21	1 28	6 40	0 48	15 19	0 17	16 59	6 26	9 45	10 18	20 10	11 7	6 42			
W 7	16 6	7 35	3 4	7 50	2 11	1 40	0 57	24 7	1 14	22 52	0 16	10 19	1 28	6 41	0 47	15 19	0 17	16 59	6 25	9 47	10 19	20 13	11 8	6 41			
T 8	16 24	12 50	3 49	8 6	2 14	1 19	1 2	24 10	1 16	22 53	0 16	10 18	1 28	6 41	0 47	15 19	0 17	17 0	6 25	9 50	10 20	20 15	11 8	6 41			
F 9	16 41	17 36	4 24	8 25	2 15	0 58	1 6	24 12	1 19	22 54	0 16	10 16	1 28	6 41	0 47	15 19	0 17	17 0	6 25	9 54	10 21	20 17	11 8	6 40			
S 10	16 58	21 42	4 48	8 48	2 16	0 36	1 11	24 14	1 22	22 54	0 15	10 15	1 28	6 41	0 47	15 19	0 17	17 0	6 25	9 59	10 22	20 20	11 8	6 40			
S 11	17 15	24 55	4 59	9 13	2 15	0 14	1 15	24 16	1 24	22 55	0 15	10 14	1 29	6 42	0 47	15 19	0 17	17 0	6 25	10 4	10 23	20 22	11 8	6 39			
M12	17 32	27 4	4 57	9 40	2 13	0s 8	1 19	24 19	1 27	22 56	0 15	10 12	1 29	6 42	0 47	15 19	0 17	17 1	6 24	10 10	10 24	20 24	11 8	6 39			
T 13	17 48	27 59	4 42	10 9	2 11	0 30	1 23	24 21	1 30	22 57	0 15	10 11	1 29	6 42	0 47	15 19	0 17	17 1	6 24	10 14	10 26	20 27	11 8	6 38			
W14	18 4	27 34	4 15	10 39	2 8	0 53	1 26	24 24	1 33	22 58	0 15	10 10	1 29	6 42	0 47	15 18	0 17	17 1	6 24	10 18	10 27	20 29	11 8	6 38			
T 15	18 20	25 48	3 35	11 10	2 4	1 16	1 30	24 27	1 36	22 59	0 15	10 9	1 30	6 42	0 47	15 18	0 17	17 1	6 24	10 20	10 28	20 31	11 8	6 37			
F 16	18 35	22 46	2 44	11 42	2 0	1 38	1 33	24 30	1 39	23 0	0 15	10 8	1 30	6 43	0 47	15 18	0 17	17 2	6 23	10 22	10 29	20 34	11 8	6 37			
S 17	18 50	18 35	1 44	12 15	1 55	2 2	1 37	24 33	1 41	23 0	0 15	10 7	1 30	6 43	0 47	15 18	0 17	17 2	6 23	10 23	10 30	20 36	11 8	6 36			
S 18	19 5	13 26	0 37	12 48	1 50	2 25	1 40	24 36	1 44	23 1	0 14	10 6	1 30	6 43	0 47	15 18	0 17	17 2	6 23	10 23	10 31	20 38	11 8	6 36			
M19	19 19	7 32	0n33	13 21	1 44	2 48	1 43	24 39	1 47	23 2	0 14	10 5	1 30	6 43	0 47	15 18	0 17	17 2	6 23	10 23	10 32	20 41	11 8	6 35			
T 20	19 33	1 5	1 44	13 55	1 38	3 11	1 46	24 42	1 50	23 3	0 14	10 4	1 31	6 43	0 47	15 17	0 17	17 3	6 23	10 23	10 34	20 43	11 8	6 35			
W21	19 47	5n37	2 51	14 28	1 32	3 35	1 49	24 45	1 53	23 3	0 14	10 3	1 31	6 43	0 47	15 17	0 17	17 3	6 22	10 24	10 35	20 45	11 8	6 35			
T 22	20 0	12 13	3 49	15 1	1 26	3 59	1 51	24 49	1 56	23 4	0 14	10 2	1 31	6 43	0 47	15 17	0 17	17 3	6 22	10 26	10 36	20 48	11 8	6 34			
F 23	20 13	18 15	4 31	15 34	1 19	4 22	1 54	24 52	1 59	23 5	0 14	10 1	1 31	6 43	0 47	15 17	0 17	17 3	6 22	10 30	10 37	20 50	11 7	6 34			
S 24	20 25	23 12	4 55	16 6	1 13	4 46	1 56	24 56	2 2	23 6	0 14	10 0	1 32	6 43	0 47	15 17	0 17	17 4	6 22	10 33	10 38	20 52	11 7	6 33			
S 25	20 38	26 33	4 58	16 38	1 6	5 10	1 59	25 0	2 5	23 6	0 14	9 59	1 32	6 43	0 47	15 16	0 17	17 4	6 22	10 38	10 39	20 55	11 7	6 33			
M26	20 49	27 56	4 40	17 9	0 59	5 34	2 1	25 3	2 8	23 7	0 14	9 58	1 32	6 43	0 47	15 16	0 17	17 4	6 21	10 42	10 40	20 57	11 7	6 32			
T 27	21 1	27 16	4 4	17 40	0 52	5 58	2 3	25 7	2 11	23 7	0 14	9 58	1 32	6 43	0 47	15 16	0 17	17 4	6 21	10 45	10 42	20 59	11 7	6 32			
W28	21 12	24 46	3 13	18 10	0 45	6 22	2 5	25 11	2 14	23 8	0 13	9 57	1 33	6 43	0 47	15 15	0 17	17 4	6 21	10 48	10 43	21 1	11 6	6 31			
T 29	21 22	20 53	2 12	18 39	0 38	6 46	2 6	25 15	2 17	23 9	0 13	9 56	1 33	6 43	0 47	15 15	0 17	17 5	6 21	10 49	10 44	21 4	11 6	6 31			
F 30	21s33	16n 3	1n 5	19s 8	0n31	7s10	2n 8	25n19	2n20	23s 9	0n13	9n56	1n33	6s42	0s47	15s15	0s17	17s 5	6n21	10s50	10s45	21s 6	11s 6	6n31			

ASTRODIENST EPHEMERIS for the year 2007

geocentric

DECEMBER 2007

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 37 54	8♂23'43	2♂15	29♂12	24♂42	10°R42	25♂57	8♂15	14♂48	19♂30	28♂0	1°R49	1♂59	15♂18	11♂27	S 1
S 2	4 41 51	9°24'32	14°46	0♂46	25°52	10♂29	26°11	8°17	14°48	19°31	28°3	1♂48	1°56	15°25	11°29	S 2
M 3	4 45 47	10°25'22	26°58	2°20	27°1	10°14	26°24	8°19	14°48	19°32	28°5	1°48	1°53	15°32	11°32	M 3
T 4	4 49 44	11°26'13	8♂59	3°54	28°11	9°59	26°38	8°21	14°49	19°33	28°7	1°45	1°49	15°38	11°35	T 4
W 5	4 53 40	12°27'06	20°52	5°28	29°21	9°43	26°51	8°22	14°49	19°35	28°9	1°39	1°46	15°45	11°38	W 5
T 6	4 57 37	13°28'00	2♂42	7°2	0♂31	9°26	27°5	8°24	14°50	19°36	28°11	1°30	1°43	15°52	11°41	T 6
F 7	5 1 34	14°28'56	14°33	8°36	1°41	9°8	27°18	8°25	14°50	19°37	28°13	1°19	1°40	15°59	11°44	F 7
S 8	5 5 30	15°29'53	26°26	10°10	2°51	8°50	27°32	8°27	14°51	19°38	28°15	1°6	1°37	16°5	11°47	S 8
S 9	5 9 27	16°30'51	8♂23	11°44	4°2	8°31	27°45	8°28	14°52	19°39	28°18	0°51	1°34	16°12	11°50	S 9
M10	5 13 23	17°31'49	20°27	13°18	5°12	8°12	27°59	8°29	14°53	19°41	28°20	0°37	1°30	16°19	11°53	M10
T 11	5 17 20	18°32'49	2♂38	14°52	6°23	7°52	28°13	8°30	14°53	19°42	28°22	0°24	1°27	16°25	11°56	T 11
W12	5 21 16	19°33'50	14°56	16°26	7°34	7°31	28°26	8°31	14°54	19°43	28°24	0°14	1°24	16°32	11°59	W12
T 13	5 25 13	20°34'51	27°23	18°0	8°45	7°10	28°40	8°32	14°55	19°45	28°26	0°6	1°21	16°39	12°3	T 13
F 14	5 29 10	21°35'53	10♂0	19°34	9°56	6°48	28°54	8°32	14°56	19°46	28°29	0°2	1°18	16°46	12°6	F 14
S 15	5 33 6	22°36'56	22°49	21°9	11°7	6°26	29°7	8°33	14°57	19°47	28°31	0°0	1°15	16°52	12°9	S 15
S 16	5 37 3	23°37'59	5♂53	22°43	12°18	6°4	29°21	8°33	14°58	19°49	28°33	29°D59	1°11	16°59	12°13	S 16
M17	5 40 59	24°39'02	19°15	24°17	13°29	5°41	29°35	8°34	14°59	19°50	28°35	0°R0	1°8	17°6	12°16	M17
T 18	5 44 56	25°40'06	2♂57	25°52	14°41	5°18	29°48	8°34	15°1	19°52	28°37	0°0	1°5	17°12	12°20	T 18
W19	5 48 52	26°41'10	17°1	27°27	15°52	4°55	0♂2	8°34	15°2	19°53	28°40	29°58	1°2	17°19	12°23	W19
T 20	5 52 49	27°42'14	1♂26	29°2	17°4	4°31	0°16	8°R34	15°3	19°55	28°42	29°54	0°59	17°26	12°27	T 20
F 21	5 56 45	28°43'19	16°10	0♂37	18°16	4°8	0°30	8°34	15°4	19°56	28°44	29°48	0°55	17°33	12°31	F 21
S 22	6 0 42	29°44'24	1♂6	2°12	19°28	3°44	0°43	8°34	15°6	19°58	28°46	29°39	0°52	17°39	12°34	S 22
S 23	6 4 39	0♂45'29	16°7	3°48	20°40	3°20	0°57	8°33	15°7	20°0	28°48	29°30	0°49	17°46	12°38	S 23
M24	6 8 35	1°46'35	1♂3	5°23	21°52	2°56	1°11	8°33	15°9	20°1	28°51	29°20	0°46	17°53	12°42	M24
T 25	6 12 32	2°47'41	15°45	6°59	23°4	2°33	1°25	8°32	15°10	20°3	28°53	29°12	0°43	17°59	12°45	T 25
W26	6 16 28	3°48'48	0♂5	8°35	24°16	2°9	1°38	8°32	15°12	20°5	28°55	29°6	0°40	18°6	12°49	W26
T 27	6 20 25	4°49'55	13°58	10°12	25°28	1°46	1°52	8°31	15°13	20°6	28°57	29°3	0°36	18°13	12°53	T 27
F 28	6 24 21	5°51'03	27°24	11°48	26°41	1°23	2°6	8°30	15°15	20°8	28°59	29°D2	0°33	18°20	12°57	F 28
S 29	6 28 18	6°52'11	10♂24	13°25	27°53	1°0	2°20	8°29	15°17	20°10	29°2	29°2	0°30	18°26	13°1	S 29
S 30	6 32 14	7°53'19	23°0	15°2	29°5	0°37	2°33	8°28	15°18	20°12	29°4	29°3	0°27	18°33	13°5	S 30
M31	6 36 11	8♂54'28	5♂17	16♂39	0♂18	0♂15	2♂47	8♂27	15♂20	20♂14	29♂6	29°R4	0♂24	18♂40	13♂9	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	21s42	10n38	0s 2	19s35	0n24	7s34	2n10	25n23	2n23	23s10	0n13	9n55	1n33	6s42	0s47	15s15	0s17	17s 5	6n21	10s50	10s46	21s 8	11s 5	6n30	
S 2	21 52	4 57	1 8	20 2	0 17	7 57	2 11	25 27	2 26	23 10	0 13	9 55	1 34	6 42	0 47	15 14	0 17	17 5	6 20	10 50	10 47	21 10	11 5	6 30	
M 3	22 1	0s46	2 9	20 28	0 10	8 21	2 12	25 31	2 29	23 11	0 13	9 54	1 34	6 42	0 46	15 14	0 17	17 5	6 20	10 50	10 48	21 13	11 5	6 29	
T 4	22 9	6 22	3 3	20 53	0 3	8 45	2 13	25 35	2 32	23 11	0 13	9 54	1 34	6 42	0 46	15 14	0 17	17 6	6 20	10 51	10 50	21 15	11 4	6 29	
W 5	22 17	11 40	3 48	21 17	0s 4	9 9	2 14	25 40	2 35	23 11	0 13	9 53	1 34	6 41	0 46	15 13	0 17	17 6	6 20	10 53	10 51	21 17	11 4	6 29	
T 6	22 25	16 32	4 24	21 40	0 11	9 32	2 15	25 44	2 38	23 12	0 13	9 53	1 35	6 41	0 46	15 13	0 17	17 6	6 20	10 56	10 52	21 19	11 4	6 28	
F 7	22 32	20 47	4 48	22 2	0 18	9 56	2 16	25 48	2 41	23 12	0 12	9 53	1 35	6 41	0 46	15 12	0 17	17 6	6 20	11 0	10 53	21 22	11 3	6 28	
S 8	22 39	24 12	4 59	22 22	0 24	10 19	2 17	25 52	2 43	23 13	0 12	9 52	1 35	6 41	0 46	15 12	0 17	17 6	6 20	11 5	10 54	21 24	11 3	6 27	
S 9	22 45	26 36	4 58	22 42	0 31	10 42	2 17	25 56	2 46	23 13	0 12	9 52	1 35	6 40	0 46	15 12	0 17	17 6	6 19	11 10	10 55	21 26	11 2	6 27	
M10	22 51	27 48	4 43	23 1	0 37	11 5	2 18	26 0	2 49	23 13	0 12	9 52	1 36	6 40	0 46	15 11	0 17	17 7	6 19	11 15	10 56	21 28	11 2	6 27	
T 11	22 57	27 40	4 15	23 18	0 43	11 28	2 18	26 4	2 51	23 14	0 12	9 52	1 36	6 40	0 46	15 11	0 17	17 7	6 19	11 20	10 57	21 30	11 1	6 26	
W12	23 2	26 10	3 35	23 34	0 50	11 51	2 18	26 7	2 54	23 14	0 12	9 52	1 36	6 39	0 46	15 11	0 17	17 7	6 19	11 23	10 59	21 33	11 1	6 26	
T 13	23 6	23 22	2 44	23 49	0 56	12 14	2 19	26 11	2 57	23 14	0 12	9 52	1 36	6 39	0 46	15 10	0 17	17 7	6 19	11 26	11 0	21 35	11 0	6 26	
F 14	23 10	19 25	1 44	24 3	1 1	12 36	2 19	26 15	2 59	23 14	0 12	9 52	1 37	6 38	0 46	15 10	0 17	17 7	6 19	11 28	11 1	21 37	11 0	6 25	
S 15	23 14	14 31	0 38	24 16	1 7	12 58	2 19	26 18	3 2	23 15	0 12	9 52	1 37	6 38	0 46	15 9	0 17	17 7	6 19	11 28	11 2	21 39	10 59	6 25	
S 16	23 17	8 52	0n31	24 27	1 13	13 20	2 18	26 22	3 4	23 15	0 12	9 52	1 37	6 38	0 46	15 9	0 17	17 7	6 18	11 28	11 3	21 41	10 58	6 25	
M17	23 20	2 43	1 41	24 37	1 18	13 42	2 18	26 25	3 6	23 15	0 12	9 52	1 37	6 37	0 46	15 8	0 17	17 8	6 18	11 28	11 4	21 43	10 58	6 24	
T 18	23 22	3n43	2 46	24 46	1 23	14 3	2 18	26 28	3 8	23 15	0 11	9 52	1 38	6 37	0 46	15 8	0 17	17 8	6 18	11 28	11 5	21 46	10 57	6 24	
W19	23 24	10 7	3 43	24 53	1 28	14 24	2 17	26 31	3 11	23 15	0 11	9 52	1 38	6 36	0 46	15 7	0 17	17 8	6 18	11 29	11 7	21 48	10 57	6 24	
T 20	23 25	16 9	4 27	24 59	1 33	14 45	2 17	26 34	3 13	23 15	0 11	9 52	1 38	6 36	0 46	15 7	0 17	17 8	6 18	11 30	11 8	21 50	10 56	6 23	
F 21	23 26	21 23	4 55	25 4	1 37	15 6	2 16	26 37	3 15	23 15	0 11	9 53	1 38	6 35	0 46	15 6	0 17	17 8	6 18	11 33	11 9	21 52	10 55	6 23	
S 22	23 26	25 20	5 4	25 7	1 41	15 26	2 15	26 40	3 16	23 15	0 11	9 53	1 39	6 34	0 46	15 6	0 17	17 8	6 18	11 36	11 10	21 54	10 55	6 23	
S 23	23 26	27 33	4 51	25 9	1 45	15 46	2 14	26 42	3 18	23 15	0 11	9 53	1 39	6 34	0 46	15 5	0 17	17 8	6 18	11 39	11 11	21 56	10 54	6 22	
M24	23 26	27 45	4 19	25 9	1 49	16 5	2 13	26 44	3 20	23 15	0 11	9 54	1 39	6 33	0 46	15 5	0 17	17 8	6 18	11 42	11 12	21 58	10 53	6 22	
T 25	23 25	25 59	3 30	25 8	1 53	16 24	2 12	26 46	3 22	23 15	0 11	9 54	1 39	6 33	0 46	15 4	0 17	17 9	6 18	11 45	11 13	22 0	10 52	6 22	
W26	23 23	22 33	2 29	25 5	1 56	16 43	2 11	26 48	3 23	23 15	0 11	9 55	1 39	6 32	0 46	15 4	0 17	17 9	6 18	11 47	11 14	22 3	10 52	6 21	
T 27	23 21	17 55	1 20	25 1	1 59	17 2	2 10	26 50	3 24	23 15	0 11	9 55	1 40	6 31	0 46	15 3	0 17	17 9	6 17	11 48	11 16	22 5	10 51	6 21	
F 28	23 19	12 31	0 9	24 56	2 1	17 20	2 8	26 52	3 26	23 15	0 11	9 56	1 40	6 31	0 45	15 3	0 17	17 9	6 17	11 49	11 17	22 7	10 50	6 21	
S 29	23 16	6 44	1s 1	24 49	2 4	17 38	2 7	26 53	3 27	23 15	0 10	9 56	1 40	6 30	0 45	15 2	0 17	17 9	6 17	11 49	11 18	22 9	10 49	6 21	
S 30	23 12	0 52	2 5	24 40	2 6	17 55	2 5	26 54	3 28	23 15	0 10	9 57	1 40	6 29	0 45	15 2	0 17	17 9	6 17	11 48	11 19	22 11	10 48	6 20	
M31	23s 8	4s53	3s 2	24s30	2s 7	18s12	2n 4	26n56	3n29	23s14	0n10	9n58	1n41	6s29	0s45	15s 1	0s17	17s 9	6n17	11s48	11s20	22s13	10s47	6n20	