



# Astrodienst Ephemeris Tables for the year 2168

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 2168  
geocentric

JANUARY 2168

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	6 41 5	10°3'45"9	26°12'12	17°R15	12°A13	25°R13	10°R24	1°A5	17°A1	12°A12	10°R11	25°A1	25°A47	19°A12	27°A3	F 1
S 2	6 45 2	11° 6'07	9°A3	16°A3	13°27	25°A8	10°A16	1°12	17° 4	12°14	10°A10	25°R1	25°43	19°19	27° 5	S 2
S 3	6 48 59	12° 7'16	21°33	14°46	14°42	25° 3	10° 7	1°18	17° 7	12°16	10° 9	25° 1	25°40	19°26	27° 6	S 3
M 4	6 52 55	13° 8'25	3°M47	13°25	15°57	24°56	9°59	1°25	17°10	12°18	10° 8	25° 0	25°37	19°32	27° 8	M 4
T 5	6 56 52	14° 9'34	15°49	12° 4	17°11	24°49	9°51	1°32	17°13	12°20	10° 7	24°59	25°34	19°39	27° 9	T 5
W 6	7 0 48	15°10'44	27°43	10°44	18°26	24°41	9°43	1°39	17°16	12°22	10° 5	24°57	25°31	19°46	27°11	W 6
T 7	7 4 45	16°11'54	9°A32	9°28	19°41	24°32	9°35	1°46	17°19	12°24	10° 4	24°56	25°28	19°52	27°12	T 7
F 8	7 8 41	17°13'04	21°20	8°19	20°55	24°23	9°27	1°53	17°22	12°26	10° 3	24°55	25°24	19°59	27°14	F 8
S 9	7 12 38	18°14'14	3°A10	7°18	22°10	24°12	9°19	2° 0	17°25	12°28	10° 2	24°54	25°21	20° 6	27°16	S 9
S 10	7 16 34	19°15'24	15° 4	6°26	23°25	24° 1	9°11	2° 7	17°28	12°30	10° 0	24°53	25°18	20°12	27°18	S 10
M 11	7 20 31	20°16'35	27° 4	5°44	24°40	23°49	9° 3	2°14	17°32	12°33	9°59	24°D53	25°15	20°19	27°19	M 11
T 12	7 24 28	21°17'44	9°A12	5°12	25°55	23°36	8°55	2°21	17°35	12°35	9°58	24°53	25°12	20°26	27°21	T 12
W 13	7 28 24	22°18'54	21°29	4°50	27° 9	23°22	8°48	2°28	17°38	12°37	9°57	24°54	25° 8	20°32	27°23	W 13
T 14	7 32 21	23°20'03	3°A57	4°37	28°24	23° 8	8°40	2°35	17°41	12°39	9°56	24°54	25° 5	20°39	27°25	T 14
F 15	7 36 17	24°21'12	16°39	4°D34	29°39	22°52	8°32	2°42	17°45	12°41	9°54	24°54	25° 2	20°46	27°27	F 15
S 16	7 40 14	25°22'20	29°35	4°39	0°A54	22°36	8°25	2°50	17°48	12°43	9°53	24°R54	24°59	20°52	27°29	S 16
S 17	7 44 10	26°23'27	12°A49	4°52	2° 9	22°20	8°18	2°57	17°51	12°46	9°52	24°54	24°56	20°59	27°31	S 17
M 18	7 48 7	27°24'34	26°22	5°13	3°23	22° 2	8°10	3° 4	17°55	12°48	9°51	24°D54	24°53	21° 6	27°33	M 18
T 19	7 52 3	28°25'40	10°A15	5°40	4°38	21°44	8° 3	3°11	17°58	12°50	9°50	24°54	24°49	21°12	27°36	T 19
W 20	7 56 0	29°26'45	24°27	6°13	5°53	21°26	7°56	3°18	18° 1	12°52	9°49	24°54	24°46	21°19	27°38	W 20
T 21	7 59 57	0°A27'49	8°A58	6°51	7° 8	21° 7	7°49	3°25	18° 5	12°54	9°47	24°55	24°43	21°26	27°40	T 21
F 22	8 3 53	1°28'53	23°42	7°35	8°23	20°47	7°42	3°32	18° 8	12°57	9°46	24°55	24°40	21°32	27°43	F 22
S 23	8 7 50	2°29'56	8°A36	8°22	9°38	20°26	7°35	3°39	18°11	12°59	9°45	24°56	24°37	21°39	27°45	S 23
S 24	8 11 46	3°30'58	23°30	9°14	10°53	20° 5	7°29	3°47	18°15	13° 1	9°44	24°R56	24°34	21°46	27°47	S 24
M 25	8 15 43	4°32'00	8°A18	10°10	12° 8	19°44	7°22	3°54	18°18	13° 3	9°43	24°56	24°30	21°52	27°50	M 25
T 26	8 19 39	5°33'01	22°52	11° 8	13°22	19°22	7°16	4° 1	18°22	13° 6	9°42	24°55	24°27	21°59	27°52	T 26
W 27	8 23 36	6°34'01	7°A6	12°10	14°37	19° 0	7°10	4° 8	18°25	13° 8	9°41	24°54	24°24	22° 6	27°55	W 27
T 28	8 27 32	7°35'00	20°55	13°14	15°52	18°37	7° 4	4°15	18°28	13°10	9°40	24°52	24°21	22°12	27°57	T 28
F 29	8 31 29	8°35'59	4°A19	14°21	17° 7	18°14	6°58	4°22	18°32	13°13	9°39	24°50	24°18	22°19	28° 0	F 29
S 30	8 35 26	9°36'57	17°17	15°29	18°22	17°51	6°52	4°29	18°35	13°15	9°38	24°49	24°14	22°26	28° 3	S 30
S 31	8 39 22	10°A37'55	29°A53	16°A40	19°A37	17°A28	6°A46	4°A37	18°A39	13°A17	9°A37	24°A48	24°A11	22°A32	28°A5	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	decl	lat	decl	lat	decl	lat
F 1	23s 2	5n45	4n38	20s36	1n43	21s 1	1n14	16n30	3n37	22n57	0s 3	20s13	0s19	16s22	0s40	17s 7	0n 1	19n10	3s52	21n 7	20n58	19s55	2n 5	3n33									
S 2	22 57	1 5	5 5	20 27	2 1	21 13	1 11	16 34	3 39	22 58	0 3	20 11	0 19	16 21	0 40	17 6	0 1	19 10	3 52	21 6	20 59	19 56	2 6	3 33									
S 3	22 52	3s30	5 16	20 18	2 18	21 24	1 9	16 38	3 42	22 59	0 3	20 10	0 19	16 20	0 40	17 5	0 1	19 10	3 52	21 6	20 59	19 57	2 6	3 33									
M 4	22 46	7 51	5 13	20 11	2 34	21 34	1 7	16 43	3 44	23 0	0 3	20 8	0 19	16 19	0 40	17 5	0 1	19 10	3 52	21 7	21 0	19 59	2 6	3 32									
T 5	22 40	11 49	4 56	20 6	2 47	21 44	1 4	16 47	3 46	23 0	0 3	20 7	0 19	16 18	0 40	17 4	0 1	19 11	3 52	21 7	21 0	20 0	2 7	3 32									
W 6	22 33	15 18	4 27	20 2	2 58	21 53	1 2	16 52	3 49	23 1	0 2	20 5	0 19	16 17	0 40	17 4	0 1	19 11	3 52	21 7	21 1	20 1	2 7	3 32									
T 7	22 26	18 8	3 46	19 59	3 6	22 2	0 59	16 58	3 51	23 2	0 2	20 4	0 19	16 16	0 40	17 3	0 1	19 11	3 52	21 7	21 2	20 2	2 8	3 32									
F 8	22 19	20 13	2 56	19 57	3 12	22 9	0 57	17 3	3 54	23 3	0 2	20 2	0 20	16 15	0 40	17 3	0 1	19 11	3 52	21 8	21 2	20 4	2 8	3 31									
S 9	22 11	21 25	1 58	19 57	3 16	22 17	0 54	17 9	3 56	23 3	0 2	20 1	0 20	16 14	0 40	17 2	0 1	19 11	3 52	21 8	21 3	20 5	2 8	3 31									
S 10	22 2	21 40	0 54	19 59	3 17	22 23	0 52	17 15	3 58	23 4	0 2	19 59	0 20	16 13	0 40	17 1	0 1	19 11	3 52	21 8	21 3	20 6	2 9	3 31									
M11	21 53	20 55	0s12	20 2	3 16	22 29	0 49	17 21	4 0	23 5	0 2	19 58	0 20	16 12	0 40	17 1	0 1	19 11	3 52	21 8	21 4	20 7	2 9	3 31									
T 12	21 44	19 12	1 19	20 6	3 13	22 34	0 47	17 27	4 3	23 5	0 2	19 56	0 20	16 11	0 40	17 0	0 1	19 12	3 52	21 8	21 5	20 8	2 10	3 30									
W13	21 34	16 35	2 23	20 11	3 9	22 39	0 44	17 34	4 5	23 6	0 1	19 55	0 20	16 10	0 40	17 0	0 1	19 12	3 51	21 8	21 5	20 10	2 10	3 30									
T 14	21 24	13 10	3 21	20 17	3 3	22 43	0 42	17 41	4 7	23 7	0 1	19 53	0 20	16 9	0 40	16 59	0 1	19 12	3 51	21 8	21 6	20 11	2 11	3 30									
F 15	21 14	9 6	4 10	20 24	2 57	22 46	0 39	17 48	4 9	23 7	0 1	19 52	0 20	16 8	0 40	16 58	0 1	19 12	3 51	21 8	21 6	20 12	2 12	3 30									
S 16	21 3	4 34	4 48	20 31	2 49	22 48	0 36	17 55	4 11	23 8	0 1	19 50	0 20	16 7	0 40	16 58	0 1	19 12	3 51	21 8	21 7	20 13	2 12	3 29									
S 17	20 51	0n17	5 11	20 39	2 41	22 50	0 34	18 2	4 13	23 9	0 1	19 48	0 20	16 6	0 40	16 57	0 1	19 12	3 51	21 8	21 7	20 14	2 13	3 29									
M18	20 40	5 13	5 18	20 47	2 32	22 51	0 31	18 10	4 15	23 9	0 1	19 47	0 20	16 5	0 40	16 57	0 1	19 13	3 51	21 8	21 8	20 15	2 14	3 29									
T 19	20 27	10 1	5 7	20 55	2 23	22 52	0 28	18 17	4 17	23 10	0 1	19 45	0 20	16 4	0 40	16 56	0 1	19 13	3 51	21 8	21 9	20 17	2 14	3 29									
W20	20 15	14 23	4 37	21 3	2 13	22 52	0 26	18 25	4 18	23 10	0 0	19 44	0 20	16 3	0 40	16 55	0 1	19 13	3 51	21 8	21 9	20 18	2 15	3 28									
T 21	20 2	18 0	3 49	21 11	2 3	22 51	0 23	18 33	4 20	23 11	0 0	19 42	0 20	16 2	0 40	16 55	0 1	19 13	3 51	21 8	21 10	20 19	2 16	3 28									
F 22	19 49	20 31	2 45	21 19	1 53	22 49	0 20	18 41	4 21	23 11	0 0	19 41	0 20	16 1	0 40	16 54	0 1	19 13	3 51	21 7	21 10	20 20	2 16	3 28									
S 23	19 35	21 39	1 30	21 26	1 43	22 47	0 18	18 49	4 23	23 12	0 0	19 39	0 21	16 0	0 40	16 54	0 1	19 13	3 51	21 7	21 11	20 21	2 17	3 28									
S 24	19 21	21 15	0 8	21 33	1 33	22 44	0 15	18 57	4 24	23 12	0n 0	19 37	0 21	15 59	0 40	16 53	0 1	19 14	3 51	21 7	21 12	20 22	2 18	3 28									
M25	19 7	19 21	1n14	21 39	1 23	22 40	0 12	19 5	4 26	23 13	0 0	19 36	0 21	15 58	0 40	16 52	0 1	19 14	3 50	21 7	21 12	20 24	2 19	3 27									
T 26	18 52	16 14	2 29	21 44	1 13	22 35	0 9	19 13	4 27	23 13	0 0	19 34	0 21	15 57	0 40	16 52	0 1	19 14	3 50	21 8	21 13	20 25	2 19	3 27									
W27	18 37	12 12	3 33	21 49	1 3	22 30	0 7	19 21	4 28	23 14	0 0	19 33	0 21	15 56	0 40	16 51	0 1	19 14	3 50	21 8	21 13	20 26	2 20	3 27									
T 28	18 21	7 38	4 23	21 52	0 54	22 24	0 4	19 29	4 29	23 14	0 1	19 31	0 21	15 55	0 40	16 50	0 0	19 14	3 50	21 8	21 14	20 27	2 21	3 27									
F 29	18 6	2 50	4 57	21 55	0 44	22 18	0 1	19 38	4 30	23 15	0 1	19 29	0 21	15 53	0 40	16 50	0 0	19 15	3 50	21 8	21 14	20 28	2 22	3 27									
S 30	17 50	1s56	5 14	21 57	0 34	22 11	0s 1	19 46	4 31	23 15	0 1	19 28	0 21	15 52	0 40	16 49	0 0	19 15	3 50	21 9	21 15	20 29	2 23	3 26									
S 31	17s33	6s30	5n15	21s58	0n25	22s 3	0s 4	19n54	4n32	23n16	0n 1	19s26	0s21	15s51	0s40	16s48	0n 0	19n15	3s50	21n 9	21n15	20s30	2n24	3n26									

# ASTRODIENST EPHEMERIS for the year 2168

## geocentric

FEBRUARY 2168

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	8 43 19	11°38'52	12°10'10	17°53'53	20°35'52	17°R 4	6°R41	4°44	18°42	13°19	9°R36	24°D47	24°8	22°39	28°8	M 1
T 2	8 47 15	12°39'49	24°12	19° 7	22° 7	16°L40	6°35	4°51	18°46	13°22	9°35	24°48	24° 5	22°46	28°11	T 2
W 3	8 51 12	13°40'44	6°5	20°23	23°22	16°16	6°30	4°58	18°49	13°24	9°34	24°49	24° 2	22°52	28°14	W 3
T 4	8 55 8	14°41'39	17°54	21°41	24°37	15°52	6°25	5° 5	18°53	13°26	9°33	24°50	23°59	22°59	28°17	T 4
F 5	8 59 5	15°42'34	29°42	23° 0	25°52	15°28	6°20	5°12	18°56	13°29	9°32	24°52	23°55	23° 6	28°20	F 5
S 6	9 3 1	16°43'27	11°35	24°20	27° 7	15° 4	6°16	5°19	19° 0	13°31	9°31	24°54	23°52	23°12	28°22	S 6
S 7	9 6 58	17°44'20	23°34	25°41	28°22	14°40	6°11	5°26	19° 3	13°33	9°30	24°R54	23°49	23°19	28°25	S 7
M 8	9 10 55	18°45'11	5°44	27° 3	29°37	14°16	6° 7	5°33	19° 7	13°35	9°29	24°54	23°46	23°26	28°28	M 8
T 9	9 14 51	19°46'01	18° 6	28°27	0°52	13°52	6° 3	5°40	19°10	13°38	9°28	24°52	23°43	23°32	28°31	T 9
W10	9 18 48	20°46'50	0°41	29°52	2° 6	13°29	5°59	5°47	19°14	13°40	9°27	24°49	23°40	23°39	28°34	W10
T 11	9 22 44	21°47'38	13°30	1°17	3°21	13° 6	5°55	5°54	19°17	13°42	9°26	24°45	23°36	23°46	28°38	T 11
F 12	9 26 41	22°48'24	26°32	2°44	4°36	12°43	5°52	6° 1	19°21	13°44	9°25	24°40	23°33	23°52	28°41	F 12
S 13	9 30 37	23°49'09	9°48	4°11	5°51	12°20	5°48	6° 8	19°24	13°47	9°24	24°35	23°30	23°59	28°44	S 13
S 14	9 34 34	24°49'53	23°16	5°40	7° 6	11°58	5°45	6°15	19°28	13°49	9°24	24°31	23°27	24° 6	28°47	S 14
M15	9 38 30	25°50'35	6°57	7° 9	8°21	11°37	5°42	6°22	19°31	13°51	9°23	24°28	23°24	24°12	28°50	M15
T 16	9 42 27	26°51'15	20°48	8°40	9°36	11°15	5°39	6°29	19°34	13°53	9°22	24°D27	23°20	24°19	28°53	T 16
W17	9 46 24	27°51'54	4°11	10°11	10°51	10°55	5°37	6°36	19°38	13°56	9°21	24°27	23°17	24°26	28°57	W17
T 18	9 50 20	28°52'30	19° 3	11°43	12° 6	10°35	5°34	6°42	19°41	13°58	9°21	24°28	23°14	24°32	29° 0	T 18
F 19	9 54 17	29°53'06	3°23	13°16	13°21	10°15	5°32	6°49	19°45	14° 0	9°20	24°30	23°11	24°39	29° 3	F 19
S 20	9 58 13	0°53'39	17°49	14°50	14°36	9°56	5°30	6°56	19°48	14° 2	9°19	24°R31	23° 8	24°46	29° 6	S 20
S 21	10 2 10	1°54'11	2°16	16°25	15°51	9°38	5°28	7° 3	19°52	14° 4	9°18	24°31	23° 5	24°52	29°10	S 21
M22	10 6 6	2°54'41	16°40	18° 0	17° 5	9°20	5°27	7° 9	19°55	14° 7	9°18	24°29	23° 1	24°59	29°13	M22
T 23	10 10 3	3°55'09	0°56	19°37	18°20	9° 3	5°25	7°16	19°59	14° 9	9°17	24°25	22°58	25° 6	29°16	T 23
W24	10 13 59	4°55'36	14°58	21°14	19°35	8°47	5°24	7°23	20° 2	14°11	9°16	24°19	22°55	25°12	29°20	W24
T 25	10 17 56	5°56'01	28°42	22°53	20°50	8°31	5°23	7°29	20° 5	14°13	9°16	24°13	22°52	25°19	29°23	T 25
F 26	10 21 53	6°56'24	12°4	24°32	22° 5	8°16	5°22	7°36	20° 9	14°15	9°15	24° 5	22°49	25°26	29°27	F 26
S 27	10 25 49	7°56'47	25° 5	26°13	23°20	8° 2	5°22	7°42	20°12	14°17	9°15	23°58	22°45	25°32	29°30	S 27
S 28	10 29 46	8°57'07	7°44	27°54	24°35	7°48	5°21	7°49	20°15	14°20	9°14	23°52	22°42	25°39	29°34	S 28
M29	10 33 42	9°57'27	20°4	29°36	25°49	7°L36	5°21	7°55	20°19	14°22	9°14	23°48	22°39	25°46	29°37	M29

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
M 1	17s17	10s40	5n 2	21s57	0n16	21s54	0s 6	20n 2	4n32	23n16	0n 1	19s24	0s21	15s50	0s40	M 1
T 2	16 59	14 20	4 36	21 56	0 7	21 45	0 9	20 9	4 33	23 16	0 1	19 23	0 21	15 49	0 40	T 2
W 3	16 42	17 23	3 58	21 54	0s 1	21 35	0 12	20 17	4 33	23 17	0 1	19 21	0 21	15 48	0 40	W 3
T 4	16 25	19 42	3 11	21 50	0 10	21 25	0 14	20 25	4 33	23 17	0 2	19 19	0 21	15 47	0 40	T 4
F 5	16 7	21 10	2 15	21 45	0 18	21 14	0 17	20 32	4 33	23 18	0 2	19 18	0 21	15 46	0 40	F 5
S 6	15 49	21 42	1 13	21 40	0 26	21 2	0 19	20 39	4 34	23 18	0 2	19 16	0 22	15 45	0 40	S 6
S 7	15 30	21 14	0 7	21 32	0 34	20 50	0 22	20 46	4 33	23 18	0 2	19 15	0 22	15 44	0 40	S 7
M 8	15 11	19 47	0s9	21 24	0 41	20 37	0 24	20 53	4 33	23 19	0 2	19 13	0 22	15 43	0 40	M 8
T 9	14 52	17 22	2 4	21 15	0 49	20 23	0 27	21 0	4 33	23 19	0 2	19 11	0 22	15 42	0 40	T 9
W10	14 33	14 5	3 4	21 4	0 56	20 9	0 29	21 7	4 33	23 19	0 2	19 10	0 22	15 40	0 40	W10
T 11	14 14	10 7	3 56	20 52	1 2	19 54	0 31	21 13	4 32	23 19	0 2	19 8	0 22	15 39	0 40	T 11
F 12	13 54	5 36	4 36	20 39	1 9	19 38	0 34	21 19	4 32	23 20	0 3	19 6	0 22	15 38	0 40	F 12
S 13	13 34	0 46	5 3	20 24	1 15	19 22	0 36	21 25	4 31	23 20	0 3	19 5	0 22	15 37	0 40	S 13
S 14	13 14	4n11	5 13	20 8	1 21	19 6	0 38	21 30	4 30	23 20	0 3	19 3	0 22	15 36	0 40	S 14
M15	12 54	9 0	5 6	19 51	1 26	18 49	0 41	21 35	4 29	23 21	0 3	19 1	0 22	15 35	0 40	M15
T 16	12 33	13 25	4 41	19 33	1 31	18 31	0 43	21 41	4 28	23 21	0 3	19 0	0 22	15 34	0 40	T 16
W17	12 12	17 10	3 59	19 13	1 36	18 13	0 45	21 45	4 27	23 21	0 3	18 58	0 22	15 33	0 40	W17
T 18	11 51	19 57	3 2	18 52	1 41	17 54	0 47	21 50	4 26	23 21	0 3	18 57	0 23	15 32	0 40	T 18
F 19	11 30	21 30	1 53	18 30	1 45	17 35	0 49	21 54	4 25	23 21	0 3	18 55	0 23	15 31	0 40	F 19
S 20	11 9	21 38	0 37	18 7	1 49	17 15	0 51	21 58	4 23	23 22	0 4	18 53	0 23	15 30	0 40	S 20
S 21	10 47	20 19	0n42	17 42	1 53	16 55	0 53	22 2	4 22	23 22	0 4	18 52	0 23	15 29	0 40	S 21
M22	10 26	17 42	1 58	17 16	1 56	16 34	0 55	22 5	4 20	23 22	0 4	18 50	0 23	15 28	0 40	M22
T 23	10 4	14 1	3 5	16 48	1 59	16 13	0 57	22 8	4 19	23 22	0 4	18 48	0 23	15 26	0 40	T 23
W24	9 42	9 36	4 0	16 19	2 1	15 52	0 59	22 11	4 17	23 22	0 4	18 47	0 23	15 25	0 40	W24
T 25	9 20	4 47	4 39	15 49	2 4	15 30	1 1	22 13	4 16	23 23	0 4	18 45	0 23	15 24	0 40	T 25
F 26	8 57	0s 7	5 3	15 18	2 5	15 7	1 2	22 16	4 14	23 23	0 4	18 44	0 23	15 23	0 40	F 26
S 27	8 35	4 54	5 9	14 45	2 7	14 44	1 4	22 18	4 12	23 23	0 4	18 42	0 23	15 22	0 40	S 27
S 28	8 12	9 20	5 0	14 12	2 8	14 21	1 6	22 20	4 10	23 23	0 4	18 40	0 23	15 21	0 40	S 28
M29	7s50	13s17	4n38	13s36	2s 8	13s57	1s 7	22n21	4n 8	23n23	0n 5	18s39	0s23	15s20	0s40	M29

Julian Day Number = 2512936.5, Delta T = 134.94 sec  
 Ecliptic obliquity = 23°24'59, Nutation = - 0°00'15, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°05'21, Lahiri = 26°12'21

# ASTRODIENST EPHEMERIS for the year 2168

## geocentric

MARCH 2168

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 37 39	10♌5745	2♈ 8	1♌19	27♋ 4	7°R24	5°D21	8♋ 2	20♌22	14♋24	9°R13	23°R46	22♌36	25♌52	29♌41	T 1
W 2	10 41 35	11°58'01	14° 3	3° 4	28°19	7♌12	5♌21	8° 8	20°25	14°26	9♌13	23°D45	22°33	25°59	29°44	W 2
T 3	10 45 32	12°58'16	25°52	4°49	29°34	7° 2	5°22	8°14	20°29	14°28	9°12	23♌46	22°30	26° 6	29°48	T 3
F 4	10 49 28	13°58'30	7♌41	6°36	0♌49	6°52	5°22	8°21	20°32	14°30	9°12	23°47	22°26	26°12	29°51	F 4
S 5	10 53 25	14°58'42	19°35	8°23	2° 4	6°44	5°23	8°27	20°35	14°32	9°11	23°R48	22°23	26°19	29°55	S 5
S 6	10 57 22	15°58'52	1♋39	10°11	3°19	6°36	5°24	8°33	20°39	14°34	9°11	23°48	22°20	26°26	29°58	S 6
M 7	11 1 18	16°59'01	13°57	12° 1	4°33	6°28	5°25	8°39	20°42	14°36	9°11	23°46	22°17	26°32	0♌ 2	M 7
T 8	11 5 15	17°59'08	26°31	13°52	5°48	6°22	5°27	8°45	20°45	14°38	9°10	23°41	22°14	26°39	0° 6	T 8
W 9	11 9 11	18°59'13	9♌24	15°43	7° 3	6°16	5°28	8°51	20°48	14°40	9°10	23°34	22°11	26°46	0° 9	W 9
T 10	11 13 8	19°59'16	22°35	17°36	8°18	6°11	5°30	8°57	20°51	14°42	9°10	23°25	22° 7	26°52	0°13	T 10
F 11	11 17 4	20°59'18	6♌ 2	19°30	9°32	6° 7	5°32	9° 3	20°54	14°44	9° 9	23°15	22° 4	26°59	0°16	F 11
S 12	11 21 1	21°59'18	19°44	21°24	10°47	6° 4	5°34	9° 9	20°58	14°46	9° 9	23° 5	22° 1	27° 6	0°20	S 12
S 13	11 24 57	22°59'15	3♌37	23°20	12° 2	6° 1	5°36	9°15	21° 1	14°48	9° 9	22°56	21°58	27°12	0°24	S 13
M14	11 28 54	23°59'11	17°38	25°16	13°17	6° 0	5°39	9°21	21° 4	14°50	9° 9	22°49	21°55	27°19	0°27	M14
T 15	11 32 50	24°59'04	1♌42	27°14	14°31	5°59	5°42	9°27	21° 7	14°51	9° 8	22°44	21°51	27°26	0°31	T 15
W16	11 36 47	25°58'55	15°49	29°12	15°46	5°D58	5°44	9°32	21°10	14°53	9° 8	22°42	21°48	27°32	0°35	W16
T 17	11 40 44	26°58'44	29°56	1°Y10	17° 1	5°59	5°48	9°38	21°13	14°55	9° 8	22°D41	21°45	27°39	0°38	T 17
F 18	11 44 40	27°58'31	14♌ 2	3° 9	18°16	6° 0	5°51	9°43	21°16	14°57	9° 8	22°42	21°42	27°46	0°42	F 18
S 19	11 48 37	28°58'15	28° 6	5° 9	19°30	6° 2	5°54	9°49	21°19	14°59	9° 8	22°R42	21°39	27°52	0°46	S 19
S 20	11 52 33	29°57'57	12♌ 7	7° 8	20°45	6° 5	5°58	9°54	21°22	15° 0	9° 8	22°40	21°36	27°59	0°49	S 20
M21	11 56 30	0♌57'37	26° 3	9° 7	22° 0	6° 8	6° 2	10° 0	21°25	15° 2	9° 8	22°36	21°32	28° 6	0°53	M21
T 22	12 0 26	1°57'15	9♌53	11° 6	23°14	6°12	6° 6	10° 5	21°27	15° 4	9° 8	22°30	21°29	28°12	0°57	T 22
W23	12 4 23	2°56'50	23°32	13° 4	24°29	6°17	6°10	10°10	21°30	15° 6	9°D 8	22°20	21°26	28°19	1° 0	W23
T 24	12 8 19	3°56'24	6♌57	15° 1	25°43	6°22	6°14	10°15	21°33	15° 7	9° 8	22° 9	21°23	28°26	1° 4	T 24
F 25	12 12 16	4°55'55	20° 7	16°57	26°58	6°28	6°19	10°20	21°36	15° 9	9° 8	21°56	21°20	28°32	1° 8	F 25
S 26	12 16 13	5°55'25	3♌ 0	18°51	28°13	6°35	6°23	10°26	21°39	15°10	9° 8	21°44	21°17	28°39	1°11	S 26
S 27	12 20 9	6°54'52	15°34	20°42	29°27	6°42	6°28	10°31	21°41	15°12	9° 8	21°33	21°13	28°45	1°15	S 27
M28	12 24 6	7°54'18	27°52	22°31	0♌42	6°50	6°33	10°35	21°44	15°14	9° 8	21°25	21°10	28°52	1°19	M28
T 29	12 28 2	8°53'42	9♌57	24°17	1°56	6°58	6°39	10°40	21°47	15°15	9° 8	21°19	21° 7	28°59	1°22	T 29
W30	12 31 59	9°53'04	21°51	25°59	3°11	7° 7	6°44	10°45	21°49	15°17	9° 8	21°16	21° 4	29° 5	1°26	W30
T 31	12 35 55	10°Y52'25	3♌40	27°Y37	4°Y25	7♌17	6♌49	10♌50	21♌52	15♌18	9♌ 9	21♌14	21♌ 1	29♌12	1°Y29	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	7s27	16s36	4n 3	13s 0	2s 9	13s33	1s 9	22n22	4n 6	23n23	0n 5	18s37	0s24	15s19	0s40	16s30
W 2	7 4	19 11	3 18	12 22	2 8	13 9	1 10	22 23	4 4	23 23	0 5	18 36	0 24	15 18	0 40	16 29
T 3	6 41	20 56	2 25	11 43	2 8	12 44	1 12	22 24	4 2	23 23	0 5	18 34	0 24	15 17	0 40	16 28
F 4	6 18	21 46	1 26	11 3	2 7	12 19	1 13	22 25	4 0	23 23	0 5	18 33	0 24	15 16	0 40	16 28
S 5	5 55	21 37	0 23	10 21	2 5	11 53	1 14	22 25	3 58	23 24	0 5	18 31	0 24	15 15	0 40	16 27
S 6	5 31	20 28	0s42	9 38	2 3	11 27	1 15	22 25	3 56	23 24	0 5	18 30	0 24	15 14	0 40	16 27
M 7	5 8	18 19	1 46	8 54	2 0	11 1	1 17	22 25	3 54	23 24	0 5	18 28	0 24	15 13	0 40	16 26
T 8	4 45	15 16	2 46	8 9	1 57	10 35	1 18	22 24	3 52	23 24	0 5	18 27	0 24	15 12	0 40	16 26
W 9	4 21	11 26	3 39	7 22	1 54	10 8	1 19	22 24	3 50	23 24	0 6	18 25	0 24	15 11	0 40	16 25
T 10	3 58	6 57	4 22	6 35	1 49	9 41	1 20	22 23	3 47	23 24	0 6	18 24	0 24	15 10	0 40	16 24
F 11	3 34	2 4	4 51	5 46	1 45	9 14	1 21	22 22	3 45	23 24	0 6	18 22	0 25	15 9	0 40	16 24
S 12	3 11	3n 1	5 4	4 56	1 40	8 46	1 22	22 20	3 43	23 24	0 6	18 21	0 25	15 8	0 40	16 23
S 13	2 47	8 1	4 59	4 5	1 34	8 19	1 22	22 19	3 41	23 24	0 6	18 19	0 25	15 7	0 40	16 23
M14	2 23	12 39	4 37	3 13	1 28	7 51	1 23	22 17	3 39	23 24	0 6	18 18	0 25	15 6	0 40	16 22
T 15	1 59	16 36	3 57	2 20	1 21	7 23	1 24	22 15	3 36	23 24	0 6	18 16	0 25	15 5	0 40	16 22
W16	1 36	19 37	3 3	1 26	1 13	6 54	1 24	22 13	3 34	23 24	0 6	18 15	0 25	15 4	0 40	16 21
T 17	1 12	21 27	1 58	0 32	1 5	6 26	1 25	22 11	3 32	23 24	0 6	18 14	0 25	15 3	0 40	16 21
F 18	0 48	21 55	0 46	0n23	0 57	5 57	1 25	22 8	3 30	23 24	0 6	18 12	0 25	15 2	0 40	16 20
S 19	0 25	21 0	0n29	1 19	0 48	5 28	1 26	22 6	3 28	23 24	0 7	18 11	0 25	15 1	0 40	16 20
S 20	0 1	18 46	1 41	2 15	0 38	4 59	1 26	22 3	3 25	23 24	0 7	18 10	0 25	15 0	0 40	16 19
M21	0n23	15 27	2 48	3 11	0 28	4 30	1 27	22 0	3 23	23 24	0 7	18 8	0 26	15 0	0 41	16 19
T 22	0 47	11 18	3 43	4 7	0 18	4 1	1 27	21 57	3 21	23 23	0 7	18 7	0 26	14 59	0 41	16 18
W23	1 10	6 37	4 25	5 3	0 7	3 31	1 27	21 54	3 19	23 23	0 7	18 6	0 26	14 58	0 41	16 18
T 24	1 34	1 42	4 51	5 59	0n 4	3 2	1 27	21 50	3 17	23 23	0 7	18 4	0 26	14 57	0 41	16 17
F 25	1 57	3s12	5 1	6 54	0 16	2 32	1 27	21 46	3 14	23 23	0 7	18 3	0 26	14 56	0 41	16 17
S 26	2 21	7 52	4 56	7 48	0 28	2 3	1 27	21 43	3 12	23 23	0 7	18 2	0 26	14 55	0 41	16 16
S 27	2 45	12 5	4 36	8 42	0 40	1 33	1 27	21 39	3 10	23 23	0 7	18 0	0 26	14 54	0 41	16 16
M28	3 8	15 43	4 3	9 34	0 52	1 3	1 27	21 35	3 8	23 23	0 7	17 59	0 26	14 53	0 41	16 15
T 29	3 31	18 37	3 20	10 24	1 4	0 33	1 27	21 31	3 6	23 23	0 8	17 58	0 26	14 53	0 41	16 15
W30	3 55	20 41	2 29	11 13	1 16	0 3	1 26	21 26	3 4	23 22	0 8	17 57	0 27	14 52	0 41	16 15
T 31	4n18	21s50	1n32	11n59	1n28	0n27	1s26	21n22	3n 2	23n22	0n 8	17s56	0s27	14s51	0s41	16s14

Julian Day Number = 2512965.5, Delta T = 135.01 sec  
 Ecliptic obliquity = 23°25'00, Nutation = - 0°00'15, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°05'25, Lahiri = 26°12'25

# ASTRODIENST EPHEMERIS for the year 2168

## geocentric

APRIL 2168

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 39 52	11°51'44	15°29	29°11	5°40	7°27	6°55	10°54	21°54	15°20	9°9	21°R14	20°57	29°19	1°33	F 1
S 2	12 43 48	12°51'00	27°24	0°41	6°54	7°38	7°1	10°59	21°57	15°21	9°9	21°E14	20°54	29°25	1°37	S 2
S 3	12 47 45	13°50'16	9°29	2°5	8°9	7°49	7°7	11°3	21°59	15°22	9°9	21°13	20°51	29°32	1°40	S 3
M 4	12 51 42	14°49'29	21°51	3°24	9°23	8°1	7°13	11°8	22°2	15°24	9°9	21°10	20°48	29°39	1°44	M 4
T 5	12 55 38	15°48'40	4°32	4°37	10°38	8°14	7°19	11°12	22°4	15°25	9°10	21°4	20°45	29°45	1°48	T 5
W 6	12 59 35	16°47'50	17°36	5°45	11°52	8°26	7°26	11°17	22°6	15°27	9°10	20°56	20°42	29°52	1°51	W 6
T 7	13 3 31	17°46'58	1°3	6°46	13°7	8°40	7°32	11°21	22°9	15°28	9°10	20°45	20°38	29°59	1°55	T 7
F 8	13 7 28	18°46'04	14°52	7°41	14°21	8°54	7°39	11°25	22°11	15°29	9°11	20°33	20°35	0°3	1°58	F 8
S 9	13 11 24	19°45'07	28°59	8°30	15°36	9°8	7°46	11°29	22°13	15°30	9°11	20°21	20°32	0°12	2°2	S 9
S 10	13 15 21	20°44'09	13°19	9°12	16°50	9°23	7°53	11°33	22°16	15°32	9°12	20°10	20°29	0°19	2°5	S 10
M 11	13 19 17	21°43'09	27°46	9°47	18°4	9°38	8°0	11°37	22°18	15°33	9°12	20°1	20°26	0°25	2°9	M 11
T 12	13 23 14	22°42'06	12°14	10°16	19°19	9°54	8°8	11°40	22°20	15°34	9°13	19°54	20°22	0°32	2°12	T 12
W 13	13 27 11	23°41'02	26°36	10°38	20°33	10°10	8°15	11°44	22°22	15°35	9°13	19°51	20°19	0°39	2°16	W 13
T 14	13 31 7	24°39'55	10°52	10°54	21°47	10°27	8°23	11°48	22°24	15°36	9°14	19°50	20°16	0°45	2°19	T 14
F 15	13 35 4	25°38'45	24°57	11°3	23°2	10°44	8°30	11°51	22°26	15°37	9°14	19°50	20°13	0°52	2°23	F 15
S 16	13 39 0	26°37'34	8°53	11°R 5	24°16	11°2	8°38	11°55	22°28	15°38	9°15	19°49	20°10	0°59	2°26	S 16
S 17	13 42 57	27°36'20	22°39	11°1	25°30	11°20	8°46	11°58	22°30	15°39	9°15	19°47	20°7	1°5	2°29	S 17
M 18	13 46 53	28°35'04	6°14	10°51	26°45	11°38	8°54	12°1	22°32	15°40	9°16	19°43	20°3	1°12	2°33	M 18
T 19	13 50 50	29°33'45	19°39	10°36	27°59	11°57	9°3	12°5	22°34	15°41	9°16	19°36	20°0	1°19	2°36	T 19
W 20	13 54 46	0°32'25	2°54	10°15	29°13	12°16	9°11	12°8	22°35	15°42	9°17	19°26	19°57	1°25	2°39	W 20
T 21	13 58 43	1°31'02	15°57	9°49	0°27	12°35	9°20	12°11	22°37	15°43	9°18	19°15	19°54	1°32	2°43	T 21
F 22	14 2 39	2°29'37	28°47	9°20	1°41	12°55	9°28	12°14	22°39	15°44	9°18	19°2	19°51	1°38	2°46	F 22
S 23	14 6 36	3°28'11	11°24	8°46	2°56	13°15	9°37	12°17	22°41	15°45	9°19	18°49	19°48	1°45	2°49	S 23
S 24	14 10 33	4°26'42	23°48	8°10	4°10	13°36	9°46	12°19	22°42	15°45	9°20	18°38	19°44	1°52	2°53	S 24
M 25	14 14 29	5°25'12	5°15	7°31	5°24	13°57	9°55	12°22	22°44	15°46	9°21	18°29	19°41	1°58	2°56	M 25
T 26	14 18 26	6°23'40	17°59	6°51	6°38	14°18	10°4	12°25	22°45	15°47	9°21	18°22	19°38	2°5	2°59	T 26
W 27	14 22 22	7°22'07	29°51	6°10	7°52	14°39	10°13	12°27	22°47	15°48	9°22	18°18	19°35	2°12	3°2	W 27
T 28	14 26 19	8°20'32	11°39	5°29	9°6	15°1	10°22	12°29	22°48	15°48	9°23	18°17	19°32	2°18	3°5	T 28
F 29	14 30 15	9°18'55	23°27	4°49	10°21	15°23	10°32	12°32	22°50	15°49	9°24	18°D17	19°28	2°25	3°8	F 29
S 30	14 34 12	10°17'16	5°21	4°10	11°35	15°46	10°41	12°34	22°51	15°50	9°24	18°R17	19°25	2°32	3°11	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	4n41	22s 1	0n30	12n44	1n40	0n56	1s25	21n17	3n 0	23n22	0n 8	17s54	0s27	14s50	0s41	16s14	0s 0	19n25	3s42	21n45	21n47	21s31	3n40	3n19	
S 2	5 4	21 12	0s33	13 26	1 51	1 26	1 25	21 12	2 58	23 22	0 8	17 53	0 27	14 49	0 41	16 13	0 0	19 25	3 42	21 45	21 48	21 32	3 41	3 19	
S 3	5 27	19 23	1 35	14 5	2 2	1 56	1 24	21 7	2 56	23 21	0 8	17 52	0 27	14 49	0 41	16 13	0 0	19 25	3 42	21 45	21 48	21 32	3 42	3 19	
M 4	5 50	16 39	2 35	14 42	2 12	2 26	1 24	21 2	2 54	23 21	0 8	17 51	0 27	14 48	0 41	16 12	0 0	19 25	3 41	21 45	21 49	21 33	3 44	3 19	
T 5	6 13	13 4	3 28	15 16	2 22	2 56	1 23	20 57	2 52	23 21	0 8	17 50	0 27	14 47	0 41	16 12	0 0	19 25	3 41	21 46	21 49	21 34	3 45	3 19	
W 6	6 36	8 46	4 12	15 47	2 30	3 25	1 22	20 52	2 50	23 21	0 8	17 49	0 27	14 46	0 41	16 12	0 0	19 25	3 41	21 47	21 50	21 35	3 47	3 19	
T 7	6 58	3 55	4 43	16 15	2 38	3 55	1 22	20 46	2 48	23 20	0 8	17 48	0 27	14 46	0 41	16 11	0 0	19 25	3 41	21 49	21 50	21 36	3 48	3 19	
F 8	7 21	1n15	4 59	16 40	2 46	4 25	1 21	20 41	2 46	23 20	0 8	17 47	0 28	14 45	0 41	16 11	0 0	19 26	3 41	21 51	21 50	21 37	3 49	3 19	
S 9	7 43	6 28	4 57	17 2	2 52	4 54	1 20	20 35	2 44	23 20	0 8	17 46	0 28	14 44	0 41	16 11	0 0	19 26	3 41	21 53	21 51	21 37	3 51	3 19	
S 10	8 5	11 25	4 37	17 20	2 57	5 24	1 19	20 29	2 42	23 19	0 9	17 45	0 28	14 44	0 41	16 10	0 0	19 26	3 41	21 54	21 51	21 38	3 52	3 19	
M11	8 27	15 46	3 58	17 36	3 1	5 53	1 18	20 23	2 40	23 19	0 9	17 44	0 28	14 43	0 41	16 10	0 0	19 26	3 40	21 56	21 52	21 39	3 53	3 19	
T 12	8 49	19 11	3 5	17 47	3 4	6 22	1 17	20 17	2 38	23 19	0 9	17 43	0 28	14 42	0 41	16 10	0 0	19 26	3 40	21 57	21 52	21 40	3 55	3 19	
W13	9 11	21 23	2 0	17 56	3 5	6 51	1 16	20 11	2 36	23 18	0 9	17 42	0 28	14 42	0 41	16 9	0 0	19 26	3 40	21 57	21 53	21 41	3 56	3 19	
T 14	9 33	22 11	0 47	18 1	3 6	7 20	1 15	20 5	2 34	23 18	0 9	17 41	0 28	14 41	0 41	16 9	0 0	19 26	3 40	21 57	21 53	21 41	3 58	3 19	
F 15	9 54	21 34	0n27	18 3	3 4	7 49	1 13	19 58	2 32	23 18	0 9	17 40	0 28	14 40	0 41	16 9	0 0	19 26	3 40	21 57	21 54	21 42	3 59	3 19	
S 16	10 16	19 37	1 39	18 1	3 2	8 17	1 12	19 52	2 31	23 17	0 9	17 39	0 28	14 40	0 41	16 8	0 0	19 26	3 40	21 57	21 54	21 43	4 0	3 19	
S 17	10 37	16 32	2 44	17 56	2 58	8 45	1 11	19 45	2 29	23 17	0 9	17 39	0 29	14 39	0 41	16 8	0 0	19 27	3 40	21 58	21 55	21 44	4 2	3 19	
M18	10 58	12 37	3 39	17 48	2 52	9 14	1 9	19 38	2 27	23 16	0 9	17 38	0 29	14 39	0 41	16 8	0 0	19 27	3 39	21 58	21 55	21 45	4 3	3 19	
T 19	11 18	8 6	4 21	17 36	2 45	9 41	1 8	19 31	2 25	23 16	0 9	17 37	0 29	14 38	0 41	16 7	0 0	19 27	3 39	21 59	21 56	21 45	4 4	3 19	
W20	11 39	3 16	4 49	17 22	2 37	10 9	1 6	19 24	2 24	23 15	0 9	17 36	0 29	14 37	0 41	16 7	0 0	19 27	3 39	22 1	21 56	21 46	4 6	3 19	
T 21	11 59	1s39	5 0	17 4	2 27	10 37	1 5	19 17	2 22	23 15	0 9	17 36	0 29	14 37	0 41	16 7	0 0	19 27	3 39	22 2	21 57	21 47	4 7	3 19	
F 22	12 20	6 24	4 57	16 44	2 16	11 4	1 3	19 10	2 20	23 14	0 10	17 35	0 29	14 36	0 41	16 7	0 0	19 27	3 39	22 4	21 57	21 48	4 8	3 19	
S 23	12 40	10 49	4 38	16 22	2 4	11 31	1 1	19 2	2 19	23 14	0 10	17 34	0 29	14 36	0 42	16 7	0 0	19 27	3 39	22 6	21 58	21 48	4 10	3 19	
S 24	12 59	14 43	4 7	15 57	1 50	11 57	1 0	18 55	2 17	23 13	0 10	17 34	0 29	14 35	0 42	16 6	0 0	19 27	3 39	22 7	21 58	21 49	4 11	3 19	
M25	13 19	17 55	3 25	15 31	1 36	12 24	0 58	18 47	2 15	23 13	0 10	17 33	0 30	14 35	0 42	16 6	0 0	19 27	3 39	22 9	21 58	21 50	4 12	3 19	
T 26	13 38	20 19	2 34	15 3	1 21	12 50	0 56	18 39	2 14	23 12	0 10	17 32	0 30	14 34	0 42	16 6	0 0	19 27	3 38	22 9	21 59	21 51	4 14	3 19	
W27	13 57	21 49	1 36	14 35	1 4	13 16	0 54	18 31	2 12	23 11	0 10	17 32	0 30	14 34	0 42	16 6	0 0	19 27	3 38	22 10	21 59	21 51	4 15	3 19	
T 28	14 16	22 19	0 35	14 5	0 48	13 41	0 53	18 23	2 10	23 11	0 10	17 31	0 30	14 34	0 42	16 5	0 0	19 27	3 38	22 10	22 0	21 52	4 16	3 19	
F 29	14 35	21 50	0s28	13 36	0 31	14 6	0 51	18 15	2 9	23 10	0 10	17 31	0 30	14 33	0 42	16 5	0 0	19 28	3 38	22 10	22 0	21 53	4 18	3 19	
S 30	14n53	20s22	1s30	13n 7	0n14	14n31	0s49	18n 7	2n 7	23n 9	0n10	17s30	0s30	14s33	0s42	16s 5	0s 1	19n28	3s38	22n10	22n 1	21s54	4n19	3n19	

## ASTRODIENST EPHEMERIS for the year 2168

geocentric

MAY 2168

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 38 8	11°15'36	17°26'26	3°R34	12°8'49	16°8'8	10°51'51	12°28'36	22°28'52	15°28'50	9°28'25	18°R17	19°28'22	2°28'38	3°Y15	S 1
M 2	14 42 5	12°13'55	29°47'29	3°8'0	14°3'3	16°31'1	11°1'1	12°38'38	22°54'54	15°51'51	9°26'26	18°28'16	19°19'19	2°45'45	3°18'18	M 2
T 3	14 46 2	13°12'12	12°29'29	2°29'29	15°17'17	16°55'55	11°11'11	12°40'40	22°55'55	15°51'51	9°27'27	18°12'12	19°16'16	2°52'52	3°21'21	T 3
W 4	14 49 58	14°10'27	25°36'26	2°2'2	16°31'31	17°18'18	11°21'21	12°42'42	22°56'56	15°52'52	9°28'28	18°6'6	19°13'13	2°58'58	3°24'24	W 4
T 5	14 53 55	15°8'41	9°Y10	1°39'39	17°45'45	17°42'42	11°31'31	12°44'44	22°57'57	15°52'52	9°29'29	17°58'58	19°9'9	3°5'5	3°26'26	T 5
F 6	14 57 51	16°6'54	23°10'10	1°19'19	18°59'59	18°6'6	11°41'41	12°45'45	22°58'58	15°52'52	9°30'30	17°49'49	19°6'6	3°12'12	3°29'29	F 6
S 7	15 1 48	17°5'04	7°8'33	1°5'5	20°13'13	18°31'31	11°51'51	12°47'47	22°59'59	15°53'53	9°31'31	17°39'39	19°3'3	3°18'18	3°32'32	S 7
S 8	15 5 44	18°3'14	22°13'13	0°55'55	21°27'27	18°55'55	12°1'1	12°48'48	23°0'0	15°53'53	9°32'32	17°30'30	19°0'0	3°25'25	3°35'35	S 8
M 9	15 9 41	19°1'21	7°II 3	0°50'50	22°41'41	19°20'20	12°12'12	12°50'50	23°1'1	15°53'53	9°33'33	17°23'23	18°57'57	3°32'32	3°38'38	M 9
T 10	15 13 37	19°59'27	21°55'55	0°D49	23°55'55	19°45'45	12°22'22	12°51'51	23°2'2	15°54'54	9°34'34	17°18'18	18°54'54	3°38'38	3°41'41	T 10
W11	15 17 34	20°57'31	6°28'40	0°53'53	25°9'9	20°11'11	12°33'33	12°52'52	23°3'3	15°54'54	9°35'35	17°16'16	18°50'50	3°45'45	3°43'43	W11
T 12	15 21 31	21°55'33	21°13'13	1°2'2	26°23'23	20°36'36	12°44'44	12°53'53	23°4'4	15°54'54	9°36'36	17°D15	18°47'47	3°51'51	3°46'46	T 12
F 13	15 25 27	22°53'34	5°Q30	1°16'16	27°37'37	21°2'2	12°54'54	12°54'54	23°4'4	15°54'54	9°37'37	17°16'16	18°44'44	3°58'58	3°49'49	F 13
S 14	15 29 24	23°51'32	19°30'30	1°33'33	28°51'51	21°29'29	13°5'5	12°55'55	23°5'5	15°54'54	9°38'38	17°R17	18°41'41	4°5'5	3°51'51	S 14
S 15	15 33 20	24°49'29	3°II 12	1°56'56	0°II 5	21°55'55	13°16'16	12°56'56	23°6'6	15°55'55	9°39'39	17°17'17	18°38'38	4°11'11	3°54'54	S 15
M16	15 37 17	25°47'23	16°37'37	2°22'22	1°18'18	22°21'21	13°27'27	12°56'56	23°6'6	15°55'55	9°40'40	17°15'15	18°34'34	4°18'18	3°57'57	M16
T 17	15 41 13	26°45'16	29°47'29	2°53'53	2°32'32	22°48'48	13°38'38	12°57'57	23°7'7	15°55'55	9°41'41	17°10'10	18°31'31	4°25'25	3°59'59	T 17
W18	15 45 10	27°43'07	12°24'43	3°28'28	3°46'46	23°15'15	13°50'50	12°57'57	23°7'7	15°R55	9°43'43	17°4'4	18°28'28	4°31'31	4°2'2	W18
T 19	15 49 6	28°40'57	25°27'27	4°7'7	5°0'0	23°42'42	14°1'1	12°58'58	23°8'8	15°55'55	9°44'44	16°57'57	18°25'25	4°38'38	4°4'4	T 19
F 20	15 53 3	29°38'45	7°II 58	4°49'49	6°14'14	24°10'10	14°12'12	12°58'58	23°8'8	15°55'55	9°45'45	16°48'48	18°22'22	4°45'45	4°6'6	F 20
S 21	15 57 0	0°II 36'31	20°18'18	5°35'35	7°28'28	24°37'37	14°24'24	12°58'58	23°8'8	15°54'54	9°46'46	16°40'40	18°19'19	4°51'51	4°9'9	S 21
S 22	16 0 56	1°34'16	2°27'29	6°25'25	8°41'41	25°5'5	14°35'35	12°R58	23°9'9	15°54'54	9°47'47	16°32'32	18°15'15	4°58'58	4°11'11	S 22
M23	16 4 53	2°32'00	14°30'30	7°18'18	9°55'55	25°33'33	14°47'47	12°58'58	23°9'9	15°54'54	9°49'49	16°26'26	18°12'12	5°5'5	4°13'13	M23
T 24	16 8 49	3°29'42	26°24'24	8°15'15	11°9'9	26°1'1	14°58'58	12°58'58	23°9'9	15°54'54	9°50'50	16°22'22	18°9'9	5°11'11	4°16'16	T 24
W25	16 12 46	4°27'24	8°II 13	9°14'14	12°23'23	26°30'30	15°10'10	12°58'58	23°9'9	15°54'54	9°51'51	16°20'20	18°6'6	5°18'18	4°18'18	W25
T 26	16 16 42	5°25'04	20°0'0	10°17'17	13°36'36	26°58'58	15°22'22	12°58'58	23°9'9	15°54'54	9°52'52	16°D20	18°3'3	5°25'25	4°20'20	T 26
F 27	16 20 39	6°22'43	1°28'49	11°23'23	14°50'50	27°27'27	15°34'34	12°57'57	23°R 9	15°53'53	9°54'54	16°21'21	18°0'0	5°31'31	4°22'22	F 27
S 28	16 24 35	7°20'21	13°43'43	12°32'32	16°4'4	27°56'56	15°45'45	12°57'57	23°9'9	15°53'53	9°55'55	16°22'22	17°56'56	5°38'38	4°24'24	S 28
S 29	16 28 32	8°17'58	25°48'48	13°43'43	17°18'18	28°25'25	15°57'57	12°56'56	23°9'9	15°53'53	9°56'56	16°24'24	17°53'53	5°45'45	4°26'26	S 29
M30	16 32 29	9°15'34	8°II 8	14°58'58	18°31'31	28°54'54	16°9'9	12°56'56	23°9'9	15°52'52	9°57'57	16°R24	17°50'50	5°51'51	4°28'28	M30
T 31	16 36 25	10°II 13'09	20°II 48	16°8'15	19°II 45	29°Q24	16°28'21	12°28'55	23°28'28	15°28'52	9°28'59	16°28'24	17°28'47	5°28'58	4°Y30	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	15n12	17s58	2s29	12n38	0s 4	14n56	0s47	17n59	2n 6	23n 9	0n10	17s30	0s30	14s32	0s42	16s 5
M 2	15 30	14 42	3 23	12 11	0 21	15 20	0 45	17 50	2 4	23 8	0 10	17 29	0 30	14 32	0 42	16 5
T 3	15 47	10 41	4 8	11 44	0 37	15 43	0 43	17 42	2 2	23 7	0 10	17 29	0 31	14 32	0 42	16 5
W 4	16 5	6 3	4 41	11 20	0 54	16 7	0 41	17 33	2 1	23 6	0 10	17 28	0 31	14 31	0 42	16 5
T 5	16 22	0 59	5 1	10 57	1 10	16 30	0 38	17 25	1 59	23 6	0 11	17 28	0 31	14 31	0 42	16 4
F 6	16 39	4n18	5 3	10 36	1 25	16 52	0 36	17 16	1 58	23 5	0 11	17 28	0 31	14 31	0 42	16 4
S 7	16 55	9 30	4 46	10 17	1 39	17 14	0 34	17 7	1 57	23 4	0 11	17 27	0 31	14 30	0 42	16 4
S 8	17 12	14 16	4 11	10 1	1 53	17 36	0 32	16 58	1 55	23 3	0 11	17 27	0 31	14 30	0 42	16 4
M 9	17 28	18 13	3 18	9 48	2 5	17 57	0 30	16 48	1 54	23 2	0 11	17 27	0 31	14 30	0 42	16 4
T 10	17 43	20 59	2 12	9 36	2 17	18 17	0 27	16 39	1 52	23 1	0 11	17 27	0 32	14 29	0 42	16 4
W11	17 59	22 18	0 57	9 28	2 28	18 38	0 25	16 30	1 51	23 0	0 11	17 26	0 32	14 29	0 42	16 4
T 12	18 14	22 6	0n21	9 21	2 38	18 57	0 23	16 20	1 49	23 0	0 11	17 26	0 32	14 29	0 42	16 4
F 13	18 29	20 26	1 36	9 17	2 47	19 16	0 21	16 11	1 48	22 59	0 11	17 26	0 32	14 29	0 42	16 4
S 14	18 43	17 34	2 44	9 16	2 55	19 35	0 18	16 1	1 47	22 58	0 11	17 26	0 32	14 29	0 42	16 4
S 15	18 57	13 46	3 41	9 17	3 2	19 53	0 16	15 51	1 45	22 57	0 11	17 26	0 32	14 28	0 42	16 4
M16	19 11	9 20	4 25	9 20	3 8	20 11	0 14	15 41	1 44	22 56	0 11	17 26	0 32	14 28	0 42	16 4
T 17	19 25	4 34	4 53	9 26	3 14	20 28	0 11	15 31	1 43	22 55	0 11	17 26	0 32	14 28	0 42	16 4
W18	19 38	0s19	5 6	9 33	3 18	20 44	0 9	15 21	1 41	22 53	0 12	17 26	0 33	14 28	0 42	16 4
T 19	19 51	5 7	5 4	9 43	3 21	21 0	0 6	15 11	1 40	22 52	0 12	17 26	0 33	14 28	0 43	16 4
F 20	20 3	9 37	4 47	9 54	3 24	21 16	0 4	15 0	1 39	22 51	0 12	17 26	0 33	14 28	0 43	16 4
S 21	20 16	13 41	4 17	10 8	3 26	21 30	0 2	14 50	1 37	22 50	0 12	17 26	0 33	14 28	0 43	16 4
S 22	20 27	17 7	3 35	10 23	3 27	21 45	0n 1	14 39	1 36	22 49	0 12	17 26	0 33	14 28	0 43	16 4
M23	20 39	19 48	2 44	10 40	3 27	21 58	0 3	14 29	1 35	22 48	0 12	17 26	0 33	14 28	0 43	16 4
T 24	20 50	21 36	1 46	10 58	3 27	22 11	0 6	14 18	1 33	22 47	0 12	17 26	0 33	14 28	0 43	16 4
W25	21 1	22 26	0 44	11 18	3 26	22 23	0 8	14 7	1 32	22 45	0 12	17 27	0 34	14 28	0 43	16 4
T 26	21 11	22 15	0s20	11 40	3 24	22 35	0 10	13 56	1 31	22 44	0 12	17 27	0 34	14 28	0 43	16 4
F 27	21 21	21 5	1 23	12 2	3 21	22 46	0 13	13 45	1 30	22 43	0 12	17 27	0 34	14 28	0 43	16 4
S 28	21 31	18 59	2 24	12 26	3 18	22 56	0 15	13 34	1 28	22 41	0 12	17 27	0 34	14 28	0 43	16 4
S 29	21 40	16 1	3 19	12 51	3 14	23 6	0 18	13 23	1 27	22 40	0 12	17 28	0 34	14 28	0 43	16 5
M30	21 49	12 18	4 6	13 17	3 9	23 15	0 20	13 11	1 26	22 39	0 12	17 28	0 34	14 28	0 43	16 5
T 31	21n58	7s58	4s42	13n44	3s 4	23n24	0n22	13n 0	1n25	22n37	0n13	17s28	0s34	14s28	0s43	16s 5

Julian Day Number = 2513026.5, Delta T = 135.14 sec

Ecliptic obliquity = 23°25'00, Nutation = - 0°00'17, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°05'33, Lahiri = 26°12'33

ASTRODIENST EPHEMERIS for the year 2168  
geocentric

JUNE 2168

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 40 22	11 <sup>II</sup> 10'43	3 <sup>V</sup> 52	17 <sup>III</sup> 35	20 <sup>II</sup> 59	29 <sup>Ω</sup> 53	16 <sup>Ω</sup> 34	12 <sup>R</sup> 54	23 <sup>R</sup> 9	15 <sup>R</sup> 51	10 <sup>Ω</sup> 0	16 <sup>R</sup> 22	17 <sup>Ω</sup> 44	6 <sup>Ω</sup> 4	4 <sup>V</sup> 32	W 1
T 2	16 44 18	12° 8'16	17°23	18°58	22°12	0 <sup>III</sup> 23	16°46	12 <sup>Ω</sup> 53	23 <sup>Ω</sup> 9	15 <sup>Ω</sup> 51	10° 1	16 <sup>Ω</sup> 19	17°40	6°11	4°34	T 2
F 3	16 48 15	13° 5'49	18°22	20°23	23°26	0°53	16°58	12°52	23° 8	15°50	10° 3	16°14	17°37	6°18	4°36	F 3
S 4	16 52 11	14° 3'21	15°48	21°51	24°40	1°23	17°10	12°51	23° 8	15°50	10° 4	16° 9	17°34	6°24	4°37	S 4
S 5	16 56 8	15° 0'52	0 <sup>II</sup> 35	23°22	25°53	1°53	17°23	12°49	23° 7	15°49	10° 5	16° 5	17°31	6°31	4°39	S 5
M 6	17 0 4	15°58'22	15°37	24°55	27° 7	2°23	17°35	12°48	23° 7	15°49	10° 7	16° 2	17°28	6°38	4°41	M 6
T 7	17 4 1	16°55'51	0 <sup>Ω</sup> 45	26°31	28°21	2°54	17°48	12°47	23° 7	15°48	10° 8	15°59	17°25	6°44	4°42	T 7
W 8	17 7 58	17°53'19	15°48	28° 9	29°34	3°24	18° 0	12°45	23° 6	15°47	10°10	15°D59	17°21	6°51	4°44	W 8
T 9	17 11 54	18°50'46	0 <sup>Ω</sup> 40	29°50	0 <sup>Ω</sup> 48	3°55	18°13	12°43	23° 5	15°47	10°11	15°59	17°18	6°58	4°45	T 9
F 10	17 15 51	19°48'12	15°14	1 <sup>II</sup> 34	2° 1	4°26	18°25	12°42	23° 5	15°46	10°12	16° 1	17°15	7° 4	4°47	F 10
S 11	17 19 47	20°45'37	29°25	3°20	3°15	4°57	18°38	12°40	23° 4	15°45	10°14	16° 2	17°12	7°11	4°48	S 11
S 12	17 23 44	21°43'01	13 <sup>III</sup> 14	5° 9	4°29	5°28	18°51	12°38	23° 3	15°45	10°15	16° 3	17° 9	7°18	4°50	S 12
M13	17 27 40	22°40'23	26°40	7° 0	5°42	6° 0	19° 3	12°36	23° 3	15°44	10°17	16°R 3	17° 6	7°24	4°51	M13
T 14	17 31 37	23°37'45	9 <sup>Ω</sup> 45	8°53	6°56	6°31	19°16	12°34	23° 2	15°43	10°18	16° 2	17° 2	7°31	4°52	T 14
W15	17 35 34	24°35'05	22°31	10°49	8° 9	7° 3	19°29	12°32	23° 1	15°42	10°20	16° 0	16°59	7°38	4°53	W15
T 16	17 39 30	25°32'25	5 <sup>III</sup> 2	12°47	9°23	7°35	19°42	12°29	23° 0	15°41	10°21	15°58	16°56	7°44	4°54	T 16
F 17	17 43 27	26°29'43	17°19	14°47	10°36	8° 7	19°55	12°27	22°59	15°40	10°22	15°55	16°53	7°51	4°56	F 17
S 18	17 47 23	27°27'01	29°27	16°50	11°50	8°39	20° 7	12°25	22°58	15°39	10°24	15°52	16°50	7°57	4°57	S 18
S 19	17 51 20	28°24'19	11 <sup>Ω</sup> 26	18°54	13° 3	9°11	20°20	12°22	22°57	15°38	10°25	15°50	16°46	8° 4	4°58	S 19
M20	17 55 16	29°21'35	23°19	21° 0	14°17	9°43	20°33	12°20	22°56	15°38	10°27	15°48	16°43	8°11	4°59	M20
T 21	17 59 13	0 <sup>Ω</sup> 18'51	5 <sup>Ω</sup> 8	23° 7	15°30	10°15	20°46	12°17	22°55	15°37	10°28	15°47	16°40	8°17	4°59	T 21
W22	18 3 9	1°16'07	16°56	25°16	16°43	10°48	20°59	12°14	22°54	15°35	10°30	15°D46	16°37	8°24	5° 0	W22
T 23	18 7 6	2°13'22	28°44	27°26	17°57	11°20	21°13	12°11	22°53	15°34	10°31	15°47	16°34	8°31	5° 1	T 23
F 24	18 11 3	3°10'37	10 <sup>Ω</sup> 36	29°37	19°10	11°53	21°26	12° 8	22°51	15°33	10°33	15°47	16°31	8°37	5° 2	F 24
S 25	18 14 59	4° 7'51	22°35	1 <sup>Ω</sup> 48	20°24	12°26	21°39	12° 6	22°50	15°32	10°34	15°49	16°27	8°44	5° 3	S 25
S 26	18 18 56	5° 5'05	4 <sup>Ω</sup> 43	4° 0	21°37	12°59	21°52	12° 2	22°49	15°31	10°36	15°50	16°24	8°51	5° 3	S 26
M27	18 22 52	6° 2'20	17° 5	6°11	22°51	13°32	22° 5	11°59	22°47	15°30	10°37	15°50	16°21	8°57	5° 4	M27
T 28	18 26 49	6°59'34	29°45	8°22	24° 4	14° 5	22°18	11°56	22°46	15°29	10°39	15°51	16°18	9° 4	5° 4	T 28
W29	18 30 45	7°56'48	12 <sup>V</sup> 46	10°33	25°17	14°38	22°31	11°53	22°44	15°28	10°40	15°R51	16°15	9°11	5° 5	W29
T 30	18 34 42	8 <sup>Ω</sup> 54'02	26°V11	12 <sup>Ω</sup> 43	26 <sup>Ω</sup> 31	15 <sup>III</sup> 12	22 <sup>Ω</sup> 45	11 <sup>Ω</sup> 50	22 <sup>Ω</sup> 43	15 <sup>Ω</sup> 26	10 <sup>Ω</sup> 42	15 <sup>Ω</sup> 51	16 <sup>Ω</sup> 11	9 <sup>Ω</sup> 17	5°V 5	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
W 1	22n 6	3s 8	5s 5	14n12	2s59	23n31	0n25	12n48	1n24	22n36	0n13	17s29	0s34	14s28	0s43	16s 5	0s 1	19n29	3s34	22n25	22n15	22s14	4n53	3n22	
T 2	22 14	2n 0	5 12	14 41	2 52	23 38	0 27	12 37	1 23	22 35	0 13	17 29	0 35	14 28	0 43	16 5	0 1	19 29	3 34	22 25	22 15	22 15	4 54	3 22	
F 3	22 21	7 13	5 2	15 10	2 45	23 45	0 29	12 25	1 21	22 33	0 13	17 29	0 35	14 28	0 43	16 5	0 1	19 29	3 34	22 26	22 15	22 15	4 55	3 22	
S 4	22 28	12 13	4 32	15 40	2 38	23 50	0 32	12 13	1 20	22 32	0 13	17 30	0 35	14 28	0 43	16 5	0 1	19 29	3 34	22 26	22 16	22 16	4 55	3 22	
S 5	22 35	16 37	3 43	16 10	2 30	23 55	0 34	12 2	1 19	22 30	0 13	17 30	0 35	14 29	0 43	16 6	0 1	19 29	3 34	22 27	22 16	22 16	4 56	3 22	
M 6	22 41	20 0	2 39	16 41	2 22	23 59	0 36	11 50	1 18	22 29	0 13	17 31	0 35	14 29	0 43	16 6	0 1	19 29	3 34	22 27	22 17	22 17	4 57	3 22	
T 7	22 47	22 2	1 23	17 12	2 13	24 3	0 39	11 38	1 17	22 27	0 13	17 31	0 35	14 29	0 43	16 6	0 1	19 29	3 34	22 28	22 17	22 17	4 58	3 22	
W 8	22 52	22 28	0 1	17 43	2 4	24 6	0 41	11 25	1 16	22 25	0 13	17 32	0 35	14 29	0 43	16 6	0 1	19 29	3 34	22 28	22 17	22 18	4 58	3 22	
T 9	22 57	21 17	1n20	18 14	1 54	24 8	0 43	11 13	1 15	22 24	0 13	17 33	0 36	14 29	0 43	16 6	0 1	19 29	3 34	22 28	22 18	22 19	4 59	3 22	
F 10	23 2	18 42	2 34	18 45	1 45	24 9	0 45	11 1	1 13	22 22	0 13	17 33	0 36	14 30	0 43	16 7	0 1	19 29	3 34	22 27	22 18	22 19	5 0	3 23	
S 11	23 6	15 3	3 37	19 16	1 34	24 10	0 47	10 48	1 12	22 21	0 13	17 34	0 36	14 30	0 43	16 7	0 1	19 29	3 33	22 27	22 19	22 20	5 0	3 23	
S 12	23 9	10 40	4 25	19 46	1 24	24 10	0 50	10 36	1 11	22 19	0 13	17 35	0 36	14 30	0 43	16 7	0 1	19 29	3 33	22 27	22 19	22 20	5 1	3 23	
M13	23 13	5 52	4 57	20 15	1 13	24 9	0 52	10 23	1 10	22 17	0 14	17 35	0 36	14 30	0 43	16 7	0 1	19 28	3 33	22 27	22 20	22 21	5 2	3 23	
T 14	23 16	0 57	5 13	20 44	1 2	24 8	0 54	10 11	1 9	22 16	0 14	17 36	0 36	14 31	0 44	16 8	0 1	19 28	3 33	22 27	22 20	22 21	5 2	3 23	
W15	23 18	3s54	5 13	21 12	0 51	24 6	0 56	9 58	1 8	22 14	0 14	17 37	0 36	14 31	0 44	16 8	0 1	19 28	3 33	22 27	22 20	22 22	5 3	3 23	
T 16	23 20	8 30	4 58	21 39	0 40	24 3	0 58	9 45	1 7	22 12	0 14	17 37	0 36	14 31	0 44	16 8	0 1	19 28	3 33	22 28	22 21	22 22	5 3	3 23	
F 17	23 22	12 41	4 29	22 5	0 29	23 59	1 0	9 32	1 6	22 10	0 14	17 38	0 37	14 32	0 44	16 8	0 1	19 28	3 33	22 28	22 21	22 23	5 4	3 23	
S 18	23 24	16 17	3 49	22 29	0 17	23 55	1 2	9 19	1 5	22 8	0 14	17 39	0 37	14 32	0 44	16 9	0 1	19 28	3 33	22 28	22 21	22 23	5 5	3 23	
S 19	23 24	19 11	2 59	22 51	0 6	23 50	1 4	9 6	1 4	22 7	0 14	17 40	0 37	14 33	0 44	16 9	0 1	19 28	3 33	22 29	22 22	22 23	5 5	3 24	
M20	23 25	21 14	2 1	23 11	0n 5	23 44	1 5	8 53	1 3	22 5	0 14	17 41	0 37	14 33	0 44	16 9	0 1	19 28	3 33	22 29	22 22	22 24	5 6	3 24	
T 21	23 25	22 20	0 59	23 30	0 15	23 38	1 7	8 40	1 2	22 3	0 14	17 42	0 37	14 33	0 44	16 10	0 1	19 28	3 33	22 29	22 23	22 24	5 6	3 24	
W22	23 25	22 27	0s 6	23 46	0 26	23 31	1 9	8 27	1 1	22 1	0 14	17 42	0 37	14 34	0 44	16 10	0 1	19 28	3 33	22 29	22 23	22 25	5 6	3 24	
T 23	23 24	21 33	1 11	23 59	0 36	23 23	1 11	8 14	1 0	21 59	0 14	17 43	0 37	14 34	0 44	16 10	0 1	19 28	3 33	22 29	22 23	22 25	5 7	3 24	
F 24	23 23	19 42	2 13	24 10	0 45	23 14	1 12	8 0	0 59	21 57	0 14	17 44	0 38	14 35	0 44	16 11	0 1	19 28	3 32	22 29	22 24	22 26	5 7	3 24	
S 25	23 21	16 58	3 10	24 19	0 55	23 5	1 14	7 47	0 58	21 55	0 15	17 45	0 38	14 35	0 44	16 11	0 1	19 28	3 32	22 29	22 24	22 26	5 8	3 24	
S 26	23 19	13 29	4 0	24 25	1 3	22 55	1 15	7 33	0 57	21 53	0 15	17 46	0 38	14 35	0 44	16 11	0 1	19 28	3 32	22 29	22 25	22 27	5 8	3 24	
M27	23 17	9 22	4 39	24 27	1 11	22 45	1 17	7 20	0 56	21 51	0 15	17 47	0 38	14 36	0 44	16 12	0 1	19 28	3 32	22 29	22 25	22 27	5 8	3 25	
T 28	23 14	4 46	5 5	24 28	1 19	22 34	1 18	7 6	0 55	21 49	0 15	17 48	0 38	14 36	0 44	16 12	0 1	19 28	3 32	22 29	22 25	22 28	5 9	3 25	
W29	23 11	0n10	5 17	24 25	1 25	22 22	1 20	6 52	0 54	21 47	0 15	17 49	0 38	14 37	0 44	16 12	0 1	19 28	3 32	22 29	22 26	22 28	5 9	3 25	
T 30	23n 7	5n14	5s12	24n19	1n31	22n10	1n21	6n38	0n53	21n45	0n15	17s50	0s38	14s37	0s44	16s13	0s 1	19n28	3s32	22n29	22n26	22s28	5n 9	3n25	

## ASTRODIENST EPHEMERIS for the year 2168

geocentric

JULY 2168

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	18 38 38	9 <sup>51</sup> 16	10 <sup>8</sup> 2	14 <sup>51</sup> 16	27 <sup>54</sup> 44	15 <sup>17</sup> 45	22 <sup>58</sup> 58	11°R46	22°R41	15°R25	10 <sup>54</sup> 43	15°R50	16 <sup>58</sup> 8	9 <sup>32</sup> 24	5 <sup>7</sup> 6	F 1
S 2	18 42 35	10°48'30	24°19	16°59	28°57	16°19	23°11	11 <sup>44</sup> 43	22 <sup>44</sup> 40	15 <sup>44</sup> 24	10°45	15°50	16° 5	9°31	5° 6	S 2
S 3	18 46 32	11°45'44	8 <sup>11</sup> 59	19° 5	0 <sup>10</sup> 11	16°53	23°25	11°39	22°38	15°23	10°46	15°49	16° 2	9°37	5° 6	S 3
M 4	18 50 28	12°42'59	23°57	21°10	1°24	17°27	23°38	11°36	22°37	15°21	10°48	15°49	15°59	9°44	5° 6	M 4
T 5	18 54 25	13°40'13	9 <sup>58</sup> 7	23°13	2°37	18° 0	23°51	11°32	22°35	15°20	10°49	15°D49	15°56	9°50	5° 7	T 5
W 6	18 58 21	14°37'28	24°17	25°14	3°51	18°35	24° 5	11°28	22°33	15°19	10°51	15°49	15°52	9°57	5° 7	W 6
T 7	19 2 18	15°34'42	9 <sup>10</sup> 20	27°14	5° 4	19° 9	24°18	11°25	22°32	15°17	10°52	15°R49	15°49	10° 4	5°R 7	T 7
F 8	19 6 14	16°31'56	24° 6	29°12	6°17	19°43	24°31	11°21	22°30	15°16	10°54	15°49	15°46	10°10	5° 7	F 8
S 9	19 10 11	17°29'10	8 <sup>17</sup> 30	1 <sup>10</sup> 7	7°30	20°17	24°45	11°17	22°28	15°15	10°55	15°49	15°43	10°17	5° 7	S 9
S 10	19 14 7	18°26'24	2 <sup>12</sup> 29	3° 1	8°44	20°52	24°58	11°13	22°26	15°13	10°57	15°48	15°40	10°24	5° 7	S 10
M 11	19 18 4	19°23'37	6 <sup>15</sup> 1	4°53	9°57	21°26	25°12	11° 9	22°24	15°12	10°58	15°48	15°37	10°30	5° 6	M 11
T 12	19 22 1	20°20'50	19° 8	6°43	11°10	22° 1	25°25	11° 5	22°22	15°10	11° 0	15°D48	15°33	10°37	5° 6	T 12
W 13	19 25 57	21°18'04	1 <sup>18</sup> 53	8°31	12°23	22°36	25°38	11° 1	22°20	15° 9	11° 1	15°48	15°30	10°44	5° 6	W 13
T 14	19 29 54	22°15'17	14°19	10°17	13°36	23°10	25°52	10°57	22°19	15° 8	11° 2	15°49	15°27	10°50	5° 6	T 14
F 15	19 33 50	23°12'30	26°29	12° 1	14°49	23°45	26° 5	10°53	22°17	15° 6	11° 4	15°49	15°24	10°57	5° 5	F 15
S 16	19 37 47	24° 9'43	8 <sup>17</sup> 29	13°43	16° 3	24°20	26°19	10°49	22°15	15° 5	11° 5	15°50	15°21	11° 4	5° 5	S 16
S 17	19 41 43	25° 6'56	20°21	15°24	17°16	24°56	26°32	10°45	22°13	15° 3	11° 7	15°51	15°17	11°10	5° 4	S 17
M 18	19 45 40	26° 4'10	2 <sup>13</sup> 10	17° 2	18°29	25°31	26°46	10°40	22°10	15° 2	11° 8	15°52	15°14	11°17	5° 4	M 18
T 19	19 49 36	27° 1'24	13°57	18°38	19°42	26° 6	26°59	10°36	22° 8	15° 0	11°10	15°R52	15°11	11°23	5° 3	T 19
W 20	19 53 33	27°58'38	25°46	20°12	20°55	26°41	27°12	10°32	22° 6	14°58	11°11	15°52	15° 8	11°30	5° 3	W 20
T 21	19 57 30	28°55'52	7 <sup>15</sup> 40	21°44	22° 8	27°17	27°26	10°28	22° 4	14°57	11°13	15°51	15° 5	11°37	5° 2	T 21
F 22	20 1 26	29°53'07	19°39	23°15	23°21	27°52	27°39	10°23	22° 2	14°55	11°14	15°49	15° 2	11°43	5° 1	F 22
S 23	20 5 23	0 <sup>10</sup> 50'22	1 <sup>18</sup> 47	24°43	24°34	28°28	27°53	10°19	22° 0	14°54	11°15	15°47	14°58	11°50	5° 0	S 23
S 24	20 9 19	1°47'38	14° 5	26° 9	25°47	29° 4	28° 6	10°14	21°58	14°52	11°17	15°45	14°55	11°57	4°59	S 24
M 25	20 13 16	2°44'55	26°35	27°34	27° 0	29°40	28°20	10°10	21°56	14°51	11°18	15°43	14°52	12° 3	4°59	M 25
T 26	20 17 12	3°42'12	9°7'21	28°56	28°13	0 <sup>10</sup> 16	28°33	10° 6	21°53	14°49	11°20	15°41	14°49	12°10	4°58	T 26
W 27	20 21 9	4°39'31	22°23	0 <sup>10</sup> 16	29°26	0°51	28°46	10° 1	21°51	14°47	11°21	15°40	14°46	12°17	4°57	W 27
T 28	20 25 5	5°36'50	5 <sup>18</sup> 45	1°34	0 <sup>10</sup> 39	1°28	29° 0	9°57	21°49	14°46	11°22	15°D39	14°43	12°23	4°56	T 28
F 29	20 29 2	6°34'10	19°28	2°49	1°52	2° 4	29°13	9°52	21°47	14°44	11°24	15°40	14°39	12°30	4°54	F 29
S 30	20 32 59	7°31'32	3 <sup>11</sup> 32	4° 3	3° 4	2°40	29°27	9°48	21°44	14°43	11°25	15°41	14°36	12°37	4°53	S 30
S 31	20 36 55	8 <sup>10</sup> 28'54	17 <sup>11</sup> 57	5 <sup>17</sup> 14	4 <sup>17</sup> 17	3 <sup>15</sup> 16	29°540	9 <sup>14</sup> 43	21 <sup>14</sup> 42	14 <sup>14</sup> 41	11°527	15°542	14°533	12°343	4°52	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	23n 3	10n13	4s50	24n11	1n36	21n56	1n22	6n25	0n52	21n43	0n15	17s51	0s38	14s38	0s44	F 1
S 2	22 59	14 48	4 9	24 0	1 41	21 43	1 24	6 11	0 51	21 40	0 15	17 52	0 39	14 39	0 44	S 2
S 3	22 54	18 38	3 11	23 47	1 45	21 28	1 25	5 57	0 50	21 38	0 15	17 54	0 39	14 39	0 44	S 3
M 4	22 49	21 18	1 59	23 31	1 48	21 14	1 26	5 43	0 49	21 36	0 15	17 55	0 39	14 40	0 44	M 4
T 5	22 43	22 29	0 37	23 13	1 50	20 58	1 27	5 29	0 48	21 34	0 15	17 56	0 39	14 40	0 44	T 5
W 6	22 37	22 1	0n47	22 53	1 51	20 42	1 28	5 14	0 47	21 32	0 15	17 57	0 39	14 41	0 44	W 6
T 7	22 30	19 57	2 7	22 31	1 52	20 25	1 29	5 0	0 46	21 29	0 15	17 58	0 39	14 41	0 44	T 7
F 8	22 24	16 35	3 17	22 8	1 52	20 8	1 30	4 46	0 45	21 27	0 16	17 59	0 39	14 42	0 44	F 8
S 9	22 16	12 17	4 13	21 42	1 52	19 50	1 31	4 32	0 44	21 25	0 16	18 0	0 39	14 43	0 44	S 9
S 10	22 9	7 27	4 52	21 15	1 50	19 32	1 31	4 17	0 44	21 22	0 16	18 2	0 39	14 43	0 44	S 10
M 11	22 1	2 24	5 13	20 47	1 48	19 13	1 32	4 3	0 43	21 20	0 16	18 3	0 40	14 44	0 44	M 11
T 12	21 53	2s35	5 17	20 17	1 46	18 53	1 33	3 48	0 42	21 18	0 16	18 4	0 40	14 44	0 44	T 12
W 13	21 44	7 20	5 5	19 46	1 43	18 34	1 33	3 34	0 41	21 15	0 16	18 5	0 40	14 45	0 44	W 13
T 14	21 35	11 40	4 39	19 14	1 39	18 13	1 34	3 19	0 40	21 13	0 16	18 6	0 40	14 46	0 44	T 14
F 15	21 25	15 26	4 1	18 41	1 35	17 52	1 34	3 4	0 39	21 11	0 16	18 8	0 40	14 46	0 44	F 15
S 16	21 16	18 31	3 13	18 7	1 30	17 31	1 34	2 50	0 38	21 8	0 16	18 9	0 40	14 47	0 44	S 16
S 17	21 5	20 47	2 17	17 33	1 24	17 9	1 35	2 35	0 37	21 6	0 16	18 10	0 40	14 48	0 45	S 17
M 18	20 55	22 9	1 15	16 58	1 19	16 47	1 35	2 20	0 36	21 3	0 16	18 11	0 40	14 48	0 45	M 18
T 19	20 44	22 31	0 11	16 22	1 12	16 24	1 35	2 6	0 36	21 1	0 17	18 13	0 40	14 49	0 45	T 19
W 20	20 33	21 52	0s55	15 46	1 6	16 1	1 35	1 51	0 35	20 58	0 17	18 14	0 41	14 50	0 45	W 20
T 21	20 21	20 14	1 58	15 10	0 58	15 37	1 35	1 36	0 34	20 56	0 17	18 15	0 41	14 51	0 45	T 21
F 22	20 9	17 42	2 56	14 33	0 51	15 13	1 35	1 21	0 33	20 53	0 17	18 16	0 41	14 51	0 45	F 22
S 23	19 57	14 22	3 48	13 57	0 43	14 48	1 35	1 6	0 32	20 51	0 17	18 18	0 41	14 52	0 45	S 23
S 24	19 45	10 24	4 29	13 20	0 34	14 24	1 34	0 51	0 31	20 48	0 17	18 19	0 41	14 53	0 45	S 24
M 25	19 32	5 55	4 59	12 43	0 26	13 58	1 34	0 36	0 30	20 45	0 17	18 20	0 41	14 53	0 45	M 25
T 26	19 18	1 7	5 14	12 6	0 17	13 33	1 34	0 21	0 30	20 43	0 17	18 22	0 41	14 54	0 45	T 26
W 27	19 5	3n51	5 14	11 29	0 7	13 7	1 33	0 6	0 29	20 40	0 17	18 23	0 41	14 55	0 45	W 27
T 28	18 51	8 45	4 57	10 52	0s 2	12 41	1 33	0s 9	0 28	20 37	0 17	18 24	0 41	14 56	0 45	T 28
F 29	18 37	13 22	4 23	10 16	0 12	12 14	1 32	0 24	0 27	20 35	0 17	18 25	0 41	14 56	0 45	F 29
S 30	18 22	17 22	3 32	9 40	0 22	11 47	1 31	0 39	0 26	20 32	0 18	18 27	0 41	14 57	0 45	S 30
S 31	18n 8	20n26	2s27	9n 4	0s33	11n20	1n30	0s55	0n25	20n29	0n18	18s28	0s42	14s58	0s45	S 31

Julian Day Number = 2513087.5, Delta T = 135.27 sec

Ecliptic obliquity = 23°25'00, Nutation = - 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°05'41, Lahiri = 26°12'42



# ASTRODIENST EPHEMERIS for the year 2168

## geocentric

AUGUST 2168

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 40 52	9♂26'17	2♂40	6♂23	5♂30	3♂53	29♂53	9°R39	21°R40	14°R39	11♂28	15♂43	14♂30	12♂50	4°R51	M 1
T 2	20 44 48	10°23'42	17°37	7°29	6°43	4°29	0♂ 7	9♂34	21♂37	14♂38	11°29	15°R44	14°27	12°57	4°Y50	T 2
W 3	20 48 45	11°21'07	2♂23	8°32	7°56	5° 6	0°20	9°30	21°35	14°36	11°31	15°43	14°23	13° 3	4°48	W 3
T 4	20 52 41	12°18'33	17°38	9°33	9° 9	5°43	0°33	9°26	21°33	14°35	11°32	15°41	14°20	13°10	4°47	T 4
F 5	20 56 38	13°16'00	2♂26	10°32	10°21	6°19	0°46	9°21	21°30	14°33	11°33	15°38	14°17	13°16	4°45	F 5
S 6	21 0 34	14°13'28	16°56	11°27	11°34	6°56	1° 0	9°17	21°28	14°31	11°35	15°34	14°14	13°23	4°44	S 6
S 7	21 4 31	15°10'56	1♂ 1	12°19	12°47	7°33	1°13	9°12	21°25	14°30	11°36	15°29	14°11	13°30	4°42	S 7
M 8	21 8 28	16° 8'25	14°40	13° 8	13°59	8°10	1°26	9° 8	21°23	14°28	11°37	15°26	14° 8	13°36	4°41	M 8
T 9	21 12 24	17° 5'55	27°51	13°54	15°12	8°47	1°39	9° 3	21°21	14°26	11°38	15°23	14° 4	13°43	4°39	T 9
W10	21 16 21	18° 3'25	10♂38	14°36	16°25	9°24	1°52	8°59	21°18	14°25	11°40	15°21	14° 1	13°50	4°38	W10
T 11	21 20 17	19° 0'57	23° 4	15°15	17°37	10° 2	2° 6	8°55	21°16	14°23	11°41	15°D21	13°58	13°56	4°36	T 11
F 12	21 24 14	19°58'29	5♂13	15°49	18°50	10°39	2°19	8°50	21°14	14°21	11°42	15°22	13°55	14° 3	4°34	F 12
S 13	21 28 10	20°56'02	17° 9	16°20	20° 2	11°16	2°32	8°46	21°11	14°20	11°43	15°24	13°52	14°10	4°32	S 13
S 14	21 32 7	21°53'36	28°59	16°46	21°15	11°54	2°45	8°42	21° 9	14°18	11°44	15°25	13°49	14°16	4°31	S 14
M15	21 36 3	22°51'11	10♂46	17° 8	22°27	12°31	2°58	8°37	21° 6	14°17	11°46	15°R26	13°45	14°23	4°29	M15
T 16	21 40 0	23°48'47	22°35	17°25	23°40	13° 9	3°11	8°33	21° 4	14°15	11°47	15°26	13°42	14°30	4°27	T 16
W17	21 43 57	24°46'24	4♂29	17°37	24°52	13°47	3°24	8°29	21° 2	14°13	11°48	15°24	13°39	14°36	4°25	W17
T 18	21 47 53	25°44'02	16°30	17°43	26° 5	14°25	3°36	8°25	20°59	14°12	11°49	15°21	13°36	14°43	4°23	T 18
F 19	21 51 50	26°41'41	28°41	17°R45	27°17	15° 2	3°49	8°21	20°57	14°10	11°50	15°15	13°33	14°49	4°21	F 19
S 20	21 55 46	27°39'22	11♂ 3	17°41	28°29	15°40	4° 2	8°16	20°54	14° 9	11°51	15° 9	13°29	14°56	4°19	S 20
S 21	21 59 43	28°37'04	23°37	17°31	29°42	16°18	4°15	8°12	20°52	14° 7	11°52	15° 1	13°26	15° 3	4°17	S 21
M22	22 3 39	29°34'47	6°Y23	17°16	0♂54	16°57	4°28	8° 8	20°50	14° 6	11°54	14°53	13°23	15° 9	4°15	M22
T 23	22 7 36	0♂32'32	19°22	16°55	2° 6	17°35	4°40	8° 4	20°47	14° 4	11°55	14°47	13°20	15°16	4°12	T 23
W24	22 11 32	1°30'18	2♂35	16°28	3°18	18°13	4°53	8° 1	20°45	14° 2	11°56	14°41	13°17	15°23	4°10	W24
T 25	22 15 29	2°28'06	16° 1	15°56	4°31	18°51	5° 6	7°57	20°43	14° 1	11°57	14°38	13°14	15°29	4° 8	T 25
F 26	22 19 26	3°25'56	29°42	15°18	5°43	19°30	5°18	7°53	20°40	13°59	11°58	14°D37	13°10	15°36	4° 6	F 26
S 27	22 23 22	4°23'48	13♂37	14°36	6°55	20° 8	5°31	7°49	20°38	13°58	11°59	14°37	13° 7	15°43	4° 3	S 27
S 28	22 27 19	5°21'41	27°48	13°49	8° 7	20°47	5°43	7°45	20°36	13°56	12° 0	14°38	13° 4	15°49	4° 1	S 28
M29	22 31 15	6°19'37	12♂12	12°59	9°19	21°25	5°56	7°42	20°33	13°55	12° 1	14°R39	13° 1	15°56	3°59	M29
T 30	22 35 12	7°17'34	28°47	12° 6	10°31	22° 4	6° 8	7°38	20°31	13°53	12° 2	14°38	12°58	16° 3	3°56	T 30
W31	22 39 8	8♂15'32	11♂29	11♂11	11♂43	22♂43	6♂20	7♂35	20♂29	13♂52	12♂ 3	14♂36	12♂55	16♂ 9	3°Y54	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	17n52	22n12	1s11	8n29	0s44	10n52	1n30	1s10	0n25	20n27	0n18	18s29	0s42	14s59	0s45	16s27
T 2	17 37	22 26	0n10	7 55	0 55	10 25	1 29	1 25	0 24	20 24	0 18	18 31	0 42	14 59	0 45	16 27
W 3	17 21	21 2	1 32	7 21	1 6	9 57	1 28	1 40	0 23	20 21	0 18	18 32	0 42	15 0	0 45	16 28
T 4	17 5	18 11	2 47	6 47	1 17	9 28	1 27	1 56	0 22	20 18	0 18	18 33	0 42	15 1	0 45	16 28
F 5	16 49	14 9	3 49	6 15	1 28	9 0	1 26	2 11	0 21	20 16	0 18	18 34	0 42	15 2	0 45	16 29
S 6	16 33	9 23	4 35	5 44	1 40	8 31	1 24	2 26	0 21	20 13	0 18	18 36	0 42	15 3	0 45	16 29
S 7	16 16	4 14	5 3	5 13	1 51	8 2	1 23	2 41	0 20	20 10	0 18	18 37	0 42	15 3	0 45	16 30
M 8	15 59	0s57	5 13	4 44	2 3	7 33	1 22	2 57	0 19	20 7	0 18	18 38	0 42	15 4	0 45	16 30
T 9	15 42	5 56	5 6	4 15	2 15	7 4	1 20	3 12	0 18	20 4	0 19	18 39	0 42	15 5	0 45	16 31
W10	15 24	10 30	4 43	3 48	2 26	6 34	1 19	3 27	0 17	20 2	0 19	18 41	0 42	15 6	0 45	16 31
T 11	15 7	14 31	4 8	3 23	2 38	6 4	1 17	3 43	0 17	19 59	0 19	18 42	0 42	15 6	0 45	16 32
F 12	14 49	17 50	3 22	2 59	2 50	5 34	1 16	3 58	0 16	19 56	0 19	18 43	0 43	15 7	0 45	16 32
S 13	14 30	20 20	2 28	2 37	3 1	5 4	1 14	4 13	0 15	19 53	0 19	18 44	0 43	15 8	0 45	16 33
S 14	14 12	21 56	1 29	2 16	3 12	4 34	1 12	4 29	0 14	19 50	0 19	18 45	0 43	15 9	0 45	16 33
M15	13 53	22 33	0 25	1 58	3 23	4 4	1 10	4 44	0 14	19 47	0 19	18 47	0 43	15 9	0 45	16 34
T 16	13 34	22 10	0s39	1 41	3 34	3 33	1 8	5 0	0 13	19 44	0 19	18 48	0 43	15 10	0 45	16 34
W17	13 15	20 46	1 42	1 27	3 44	3 3	1 6	5 15	0 12	19 42	0 19	18 49	0 43	15 11	0 45	16 34
T 18	12 56	18 26	2 41	1 16	3 54	2 32	1 4	5 30	0 11	19 39	0 20	18 50	0 43	15 12	0 45	16 35
F 19	12 36	15 15	3 33	1 7	4 3	2 2	1 2	5 46	0 10	19 36	0 20	18 51	0 43	15 13	0 45	16 35
S 20	12 17	11 22	4 16	1 1	4 11	1 31	1 0	6 1	0 10	19 33	0 20	18 52	0 43	15 13	0 45	16 36
S 21	11 57	6 56	4 47	0 57	4 18	1 0	0 58	6 16	0 9	19 30	0 20	18 53	0 43	15 14	0 45	16 36
M22	11 37	2 8	5 5	0 57	4 25	0 29	0 55	6 31	0 8	19 27	0 20	18 55	0 43	15 15	0 45	16 37
T 23	11 16	2n50	5 7	1 1	4 30	0s 2	0 53	6 47	0 7	19 24	0 20	18 56	0 43	15 16	0 45	16 37
W24	10 56	7 45	4 54	1 7	4 35	0 33	0 50	7 2	0 7	19 21	0 20	18 57	0 43	15 16	0 45	16 38
T 25	10 35	12 24	4 24	1 17	4 37	1 3	0 48	7 17	0 6	19 18	0 20	18 58	0 43	15 17	0 45	16 38
F 26	10 14	16 31	3 38	1 30	4 39	1 34	0 45	7 32	0 5	19 15	0 20	18 59	0 43	15 18	0 45	16 39
S 27	9 53	19 47	2 39	1 47	4 38	2 5	0 43	7 48	0 5	19 12	0 21	19 0	0 43	15 19	0 45	16 39
S 28	9 32	21 54	1 30	2 6	4 36	2 36	0 40	8 3	0 4	19 9	0 21	19 1	0 43	15 19	0 45	16 40
M29	9 11	22 38	0 13	2 29	4 32	3 7	0 37	8 18	0 3	19 6	0 21	19 2	0 44	15 20	0 45	16 40
T 30	8 49	21 50	1n 5	2 55	4 26	3 38	0 35	8 33	0 2	19 4	0 21	19 3	0 44	15 21	0 45	16 40
W31	8n28	19n33	2n19	3n23	4s18	4s 9	0n32	8s48	0n 2	19n 1	0n21	19s 4	0s44	15s21	0s45	16s41

Julian Day Number = 2513118.5, Delta T = 135.34 sec  
 Ecliptic obliquity = 23°25'00, Nutation = - 0°00'16, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 27°05'46, Lahiri = 26°12'46

# ASTRODIENST EPHEMERIS for the year 2168

## geocentric

SEPTEMBER 2168

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 43 5	9 <sup>h</sup> 13'33	26 <sup>h</sup> 01'11	10°R15	12 <sup>h</sup> 05'55	23 <sup>h</sup> 05'22	6 <sup>h</sup> 02'33	7°R31	20°R27	13°R51	12 <sup>h</sup> 03	14°R31	12 <sup>h</sup> 05'51	16 <sup>h</sup> 03'16	3°R51	T 1
F 2	22 47 1	10°11'35	10 <sup>h</sup> 07'46	9 <sup>h</sup> 07'20	14° 7	24° 1	6°45	7 <sup>h</sup> 02'28	20 <sup>h</sup> 02'25	13 <sup>h</sup> 04'49	12° 4	14 <sup>h</sup> 02'24	12°48	16°22	3°Y49	F 2
S 3	22 50 58	11° 9'39	25° 8	8°26	15°19	24°40	6°57	7°24	20°22	13°48	12° 5	14°15	12°45	16°29	3°46	S 3
S 4	22 54 55	12° 7'44	9 <sup>h</sup> 01'10	7°34	16°31	25°19	7° 9	7°21	20°20	13°46	12° 6	14° 5	12°42	16°36	3°44	S 4
M 5	22 58 51	13° 5'50	22°49	6°47	17°42	25°58	7°21	7°18	20°18	13°45	12° 7	13°57	12°39	16°42	3°41	M 5
T 6	23 2 48	14° 3'58	6 <sup>h</sup> 01'12	6° 4	18°54	26°37	7°33	7°15	20°16	13°44	12° 8	13°49	12°35	16°49	3°39	T 6
W 7	23 6 44	15° 2'08	18°50	5°28	20° 6	27°17	7°45	7°12	20°14	13°42	12° 8	13°44	12°32	16°56	3°36	W 7
T 8	23 10 41	16° 0'19	1 <sup>h</sup> 07'17	4°58	21°18	27°56	7°57	7° 9	20°12	13°41	12° 9	13°40	12°29	17° 2	3°34	T 8
F 9	23 14 37	16°58'32	13°26	4°36	22°29	28°35	8° 9	7° 6	20°10	13°40	12°10	13°D39	12°26	17° 9	3°31	F 9
S 10	23 18 34	17°56'46	25°23	4°23	23°41	29°15	8°21	7° 3	20° 8	13°38	12°11	13°39	12°23	17°16	3°28	S 10
S 11	23 22 30	18°55'01	7 <sup>h</sup> 03'13	4°D18	24°52	29°55	8°32	7° 0	20° 6	13°37	12°11	13°40	12°20	17°22	3°26	S 11
M12	23 26 27	19°53'18	19° 1	4°22	26° 4	0 <sup>h</sup> 03'34	8°44	6°58	20° 4	13°36	12°12	13°R40	12°16	17°29	3°23	M12
T 13	23 30 24	20°51'37	0 <sup>h</sup> 05'52	4°35	27°15	1°14	8°55	6°55	20° 2	13°35	12°13	13°39	12°13	17°36	3°20	T 13
W14	23 34 20	21°49'57	12°50	4°57	28°27	1°54	9° 7	6°52	20° 0	13°33	12°13	13°35	12°10	17°42	3°18	W14
T 15	23 38 17	22°48'19	25° 0	5°27	29°38	2°34	9°18	6°50	19°58	13°32	12°14	13°28	12° 7	17°49	3°15	T 15
F 16	23 42 13	23°46'43	7 <sup>h</sup> 07'23	6° 7	0 <sup>h</sup> 04'49	3°14	9°29	6°48	19°56	13°31	12°15	13°20	12° 4	17°56	3°12	F 16
S 17	23 46 10	24°45'08	20° 2	6°55	2° 1	3°54	9°41	6°45	19°54	13°30	12°15	13° 9	12° 0	18° 2	3°10	S 17
S 18	23 50 6	25°43'35	2 <sup>h</sup> 07'55	7°51	3°12	4°34	9°52	6°43	19°52	13°29	12°16	12°57	11°57	18° 9	3° 7	S 18
M19	23 54 3	26°42'04	16° 3	8°54	4°23	5°14	10° 3	6°41	19°51	13°28	12°16	12°45	11°54	18°15	3° 4	M19
T 20	23 57 59	27°40'35	29°24	10° 4	5°34	5°54	10°14	6°39	19°49	13°27	12°17	12°34	11°51	18°22	3° 1	T 20
W21	0 1 56	28°39'08	12 <sup>h</sup> 05'56	11°20	6°45	6°35	10°25	6°37	19°47	13°26	12°17	12°25	11°48	18°29	2°58	W21
T 22	0 5 52	29°37'43	26°37	12°42	7°56	7°15	10°36	6°35	19°45	13°25	12°18	12°19	11°45	18°35	2°56	T 22
F 23	0 9 49	0 <sup>h</sup> 03'36'20	10 <sup>h</sup> 07'26	14° 8	9° 7	7°55	10°46	6°34	19°44	13°24	12°18	12°15	11°41	18°42	2°53	F 23
S 24	0 13 46	1°35'00	24°23	15°40	10°18	8°36	10°57	6°32	19°42	13°23	12°19	12°14	11°38	18°49	2°50	S 24
S 25	0 17 42	2°33'42	8 <sup>h</sup> 02'36	17°14	11°29	9°17	11° 7	6°31	19°41	13°22	12°19	12°14	11°35	18°55	2°47	S 25
M26	0 21 39	3°32'26	22°35	18°53	12°40	9°57	11°18	6°29	19°39	13°21	12°20	12°14	11°32	19° 2	2°45	M26
T 27	0 25 35	4°31'13	6 <sup>h</sup> 02'50	20°33	13°51	10°38	11°28	6°28	19°38	13°20	12°20	12°12	11°29	19° 9	2°42	T 27
W28	0 29 32	5°30'01	21° 8	22°16	15° 1	11°19	11°39	6°27	19°36	13°19	12°20	12° 8	11°26	19°15	2°39	W28
T 29	0 33 28	6°28'52	5 <sup>h</sup> 07'25	24° 1	16°12	12° 0	11°49	6°25	19°35	13°18	12°21	12° 1	11°22	19°22	2°36	T 29
F 30	0 37 25	7 <sup>h</sup> 02'47'45	19 <sup>h</sup> 07'37	25 <sup>h</sup> 07'47	17 <sup>h</sup> 06'23	12 <sup>h</sup> 04'41	11 <sup>h</sup> 02'59	6 <sup>h</sup> 02'24	19 <sup>h</sup> 03'33	13 <sup>h</sup> 01'17	12 <sup>h</sup> 02'21	11 <sup>h</sup> 02'51	11 <sup>h</sup> 02'19	19 <sup>h</sup> 02'39	2 <sup>h</sup> 07'34	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	8n 6	15n58	3n24	3n53	4s 9	4s39	0n29	9s 3	0n 1	18n58	0n21	19s 5	0s44	15s22	0s45	16s41	0s 2
F 2	7 44	11 27	4 15	4 24	3 57	5 10	0 26	9 18	0 0	18 55	0 21	19 6	0 44	15 23	0 45	16 42	0 2
S 3	7 22	6 21	4 49	4 56	3 44	5 40	0 23	9 33	0s 0	18 52	0 21	19 6	0 44	15 23	0 45	16 42	0 2
S 4	7 0	1 2	5 4	5 29	3 29	6 11	0 20	9 48	0 1	18 49	0 22	19 7	0 44	15 24	0 45	16 43	0 2
M 5	6 38	4s12	5 2	6 2	3 13	6 41	0 17	10 3	0 2	18 46	0 22	19 8	0 44	15 25	0 45	16 43	0 2
T 6	6 16	9 4	4 43	6 33	2 56	7 11	0 14	10 18	0 3	18 43	0 22	19 9	0 44	15 25	0 45	16 43	0 2
W 7	5 53	13 24	4 10	7 3	2 37	7 41	0 10	10 33	0 3	18 40	0 22	19 10	0 44	15 26	0 45	16 44	0 2
T 8	5 31	17 2	3 26	7 32	2 36	8 11	0 7	10 47	0 4	18 37	0 22	19 11	0 44	15 27	0 45	16 44	0 2
F 9	5 8	19 50	2 34	7 58	1 59	8 41	0 4	11 2	0 5	18 34	0 22	19 11	0 44	15 27	0 45	16 44	0 2
S 10	4 46	21 44	1 36	8 20	1 40	9 10	0 1	11 17	0 5	18 31	0 22	19 12	0 44	15 28	0 45	16 45	0 2
S 11	4 23	22 39	0 34	8 40	1 21	9 40	0s 3	11 31	0 6	18 28	0 22	19 13	0 44	15 29	0 45	16 45	0 2
M12	4 0	22 32	0s28	8 56	1 2	10 9	0 6	11 46	0 7	18 25	0 23	19 14	0 44	15 29	0 45	16 46	0 2
T 13	3 37	21 25	1 30	9 9	0 44	10 38	0 9	12 1	0 7	18 23	0 23	19 14	0 44	15 30	0 45	16 46	0 2
W14	3 14	19 19	2 29	9 17	0 26	11 7	0 13	12 15	0 8	18 20	0 23	19 15	0 44	15 30	0 45	16 46	0 2
T 15	2 51	16 20	3 21	9 22	0 9	11 35	0 16	12 29	0 9	18 17	0 23	19 16	0 44	15 31	0 45	16 47	0 2
F 16	2 28	12 35	4 5	9 22	0n 7	12 3	0 20	12 44	0 9	18 14	0 23	19 16	0 44	15 32	0 45	16 47	0 2
S 17	2 5	8 12	4 38	9 18	0 22	12 31	0 23	12 58	0 10	18 11	0 23	19 17	0 44	15 32	0 45	16 47	0 2
S 18	1 42	3 23	4 57	9 11	0 36	12 59	0 27	13 12	0 11	18 8	0 23	19 17	0 44	15 33	0 45	16 48	0 2
M19	1 19	1n41	5 1	8 59	0 49	13 27	0 30	13 26	0 11	18 5	0 23	19 18	0 44	15 33	0 45	16 48	0 2
T 20	0 55	6 45	4 49	8 43	1 0	13 54	0 34	13 40	0 12	18 2	0 24	19 18	0 44	15 34	0 45	16 48	0 2
W21	0 32	11 34	4 20	8 24	1 10	14 21	0 37	13 54	0 13	18 0	0 24	19 19	0 44	15 34	0 44	16 49	0 2
T 22	0 9	15 52	3 37	8 1	1 20	14 47	0 41	14 8	0 13	17 57	0 24	19 19	0 44	15 35	0 44	16 49	0 2
F 23	0s14	19 21	2 40	7 35	1 27	15 13	0 44	14 22	0 14	17 54	0 24	19 20	0 44	15 35	0 44	16 49	0 2
S 24	0 38	21 45	1 33	7 6	1 34	15 39	0 48	14 35	0 15	17 51	0 24	19 20	0 44	15 36	0 44	16 49	0 2
S 25	1 1	22 49	0 20	6 34	1 40	16 5	0 52	14 49	0 15	17 49	0 24	19 21	0 44	15 36	0 44	16 50	0 2
M26	1 24	22 25	0n55	6 0	1 44	16 30	0 55	15 2	0 16	17 46	0 24	19 21	0 44	15 37	0 44	16 50	0 2
T 27	1 48	20 35	2 6	5 23	1 48	16 55	0 59	15 16	0 17	17 43	0 25	19 21	0 44	15 37	0 44	16 50	0 2
W28	2 11	17 27	3 10	4 45	1 50	17 19	1 2	15 29	0 17	17 40	0 25	19 22	0 44	15 38	0 44	16 51	0 2
T 29	2 34	13 16	4 2	4 5	1 52	17 43	1 6	15 42	0 18	17 38	0 25	19 22	0 44	15 38	0 44	16 51	0 2
F 30	2s58	8n22	4n38	3n24	1n53	18s 7	1s10	15s55	0s19	17n35	0n25	19s22	0s44	15s38	0s44	16s51	0s 2

Julian Day Number = 2513149.5, Delta T = 135.40 sec

Ecliptic obliquity = 23°25'01", Nutation = - 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°05'50", Lahiri = 26°12'50"

ASTRODIENST EPHEMERIS for the year 2168  
geocentric

OCTOBER 2168

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 41 21	8♂26'40	3♂39	27♂34	18♂33	13♂22	12♂9	6°R23	19°R32	13°R17	12♂21	11°R40	11♂16	19♂35	2°R31	S 1
S 2	0 45 18	9°25'37	17°26	29°22	19°44	14° 3	12°19	6♂22	19♂31	13♂16	12°21	11♂27	11°13	19°42	2°Y28	S 2
M 3	0 49 15	10°24'36	0♂54	1♂10	20°54	14°44	12°29	6°22	19°30	13°15	12°22	11°15	11°10	19°48	2°25	M 3
T 4	0 53 11	11°23'37	14° 1	2°58	22° 4	15°25	12°38	6°21	19°28	13°15	12°22	11° 4	11° 6	19°55	2°23	T 4
W 5	0 57 8	12°22'40	26°46	4°46	23°15	16° 7	12°48	6°20	19°27	13°14	12°22	10°56	11° 3	20° 2	2°20	W 5
T 6	1 1 4	13°21'44	9♂12	6°35	24°25	16°48	12°57	6°20	19°26	13°13	12°22	10°50	11° 0	20° 8	2°17	T 6
F 7	1 5 1	14°20'51	21°20	8°22	25°35	17°30	13° 7	6°20	19°25	13°13	12°22	10°47	10°57	20°15	2°14	F 7
S 8	1 8 57	15°19'59	3♂17	10°10	26°45	18°11	13°16	6°19	19°24	13°12	12°22	10°46	10°54	20°22	2°12	S 8
S 9	1 12 54	16°19'09	15° 7	11°57	27°55	18°53	13°25	6°19	19°23	13°12	12°23	10°46	10°51	20°28	2° 9	S 9
M10	1 16 50	17°18'21	26°55	13°43	29° 5	19°34	13°34	6°D19	19°22	13°11	12°23	10°46	10°47	20°35	2° 6	M10
T 11	1 20 47	18°17'35	8♂47	15°29	0♂15	20°16	13°43	6°19	19°21	13°11	12°23	10°45	10°44	20°42	2° 4	T 11
W12	1 24 44	19°16'50	20°49	17°14	1°25	20°58	13°52	6°19	19°20	13°10	12°R23	10°41	10°41	20°48	2° 1	W12
T 13	1 28 40	20°16'07	3♂ 4	18°58	2°34	21°40	14° 0	6°19	19°20	13°10	12°23	10°35	10°38	20°55	1°58	T 13
F 14	1 32 37	21°15'26	15°36	20°42	3°44	22°22	14° 9	6°20	19°19	13° 9	12°23	10°26	10°35	21° 2	1°56	F 14
S 15	1 36 33	22°14'47	28°28	22°25	4°53	23° 4	14°17	6°20	19°18	13° 9	12°23	10°15	10°32	21° 8	1°53	S 15
S 16	1 40 30	23°14'09	11°Y39	24° 7	6° 3	23°46	14°25	6°21	19°17	13° 9	12°22	10° 3	10°28	21°15	1°51	S 16
M17	1 44 26	24°13'34	25° 9	25°49	7°12	24°28	14°34	6°21	19°17	13° 8	12°22	9°50	10°25	21°22	1°48	M17
T 18	1 48 23	25°13'01	8♂54	27°30	8°21	25°10	14°42	6°22	19°16	13° 8	12°22	9°39	10°22	21°28	1°46	T 18
W19	1 52 19	26°12'29	22°52	29°10	9°30	25°52	14°50	6°23	19°16	13° 8	12°22	9°30	10°19	21°35	1°43	W19
T 20	1 56 16	27°12'00	6♂57	0♂50	10°39	26°35	14°57	6°24	19°15	13° 8	12°22	9°24	10°16	21°41	1°41	T 20
F 21	2 0 13	28°11'34	21° 6	2°29	11°48	27°17	15° 5	6°25	19°15	13° 8	12°22	9°20	10°12	21°48	1°38	F 21
S 22	2 4 9	29°11'09	5♂16	4° 7	12°57	28° 0	15°12	6°26	19°15	13° 8	12°22	9°D19	10° 9	21°55	1°36	S 22
S 23	2 8 6	0♂10'47	19°25	5°45	14° 6	28°42	15°20	6°27	19°14	13° 8	12°21	9°19	10° 6	22° 1	1°34	S 23
M24	2 12 2	1°10'27	3♂32	7°22	15°15	29°25	15°27	6°29	19°14	13° 8	12°21	9°R19	10° 3	22° 8	1°31	M24
T 25	2 15 59	2°10'09	17°35	8°58	16°23	0♂ 8	15°34	6°30	19°14	13°D 8	12°21	9°18	10° 0	22°15	1°29	T 25
W26	2 19 55	3° 9'54	1♂34	10°34	17°31	0°50	15°41	6°32	19°14	13° 8	12°20	9°15	9°57	22°21	1°27	W26
T 27	2 23 52	4° 9'41	15°27	12°10	18°40	1°33	15°48	6°33	19°13	13° 8	12°20	9°10	9°53	22°28	1°25	T 27
F 28	2 27 48	5° 9'30	29°13	13°44	19°48	2°16	15°54	6°35	19°13	13° 8	12°20	9° 1	9°50	22°35	1°22	F 28
S 29	2 31 45	6° 9'21	12♂49	15°19	20°56	2°59	16° 1	6°37	19°D13	13° 8	12°19	8°51	9°47	22°41	1°20	S 29
S 30	2 35 41	7° 9'14	26°12	16°52	22° 4	3°42	16° 7	6°39	19°13	13° 8	12°19	8°40	9°44	22°48	1°18	S 30
M31	2 39 38	8♂ 9'09	9♂21	18♂26	23♂11	4♂25	16♂13	6♂41	19♂14	13♂ 8	12♂19	8♂29	9♂41	22♂55	1°Y16	M31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	3s21	3n 6	4n58	2n41	1n53	18s30	1s13	16s 8	0s19	17n32	0n25	19s23	0s44	15s39	0s44	16s51
S 2	3 44	2s14	4 59	1 58	1 52	18 53	1 17	16 21	0 20	17 30	0 25	19 23	0 44	15 39	0 44	16 51
M 3	4 7	7 21	4 43	1 13	1 50	19 15	1 20	16 34	0 20	17 27	0 26	19 23	0 44	15 40	0 44	16 52
T 4	4 30	12 0	4 13	0 28	1 48	19 37	1 24	16 47	0 21	17 25	0 26	19 23	0 44	15 40	0 44	16 52
W 5	4 53	16 0	3 30	0s17	1 46	19 59	1 27	16 59	0 22	17 22	0 26	19 23	0 44	15 40	0 44	16 52
T 6	5 16	19 11	2 39	1 3	1 42	20 20	1 31	17 12	0 22	17 20	0 26	19 23	0 44	15 41	0 44	16 52
F 7	5 39	21 27	1 41	1 48	1 39	20 40	1 34	17 24	0 23	17 17	0 26	19 23	0 44	15 41	0 44	16 52
S 8	6 2	22 43	0 40	2 34	1 35	21 0	1 38	17 36	0 24	17 15	0 26	19 24	0 44	15 41	0 44	16 53
S 9	6 25	22 57	0s23	3 20	1 30	21 19	1 41	17 48	0 24	17 12	0 26	19 24	0 44	15 41	0 44	16 53
M10	6 47	22 8	1 25	4 6	1 25	21 38	1 45	18 0	0 25	17 10	0 27	19 24	0 44	15 42	0 44	16 53
T 11	7 10	20 20	2 23	4 51	1 20	21 57	1 48	18 12	0 25	17 7	0 27	19 24	0 44	15 42	0 44	16 53
W12	7 32	17 38	3 15	5 36	1 15	22 15	1 51	18 24	0 26	17 5	0 27	19 24	0 44	15 42	0 44	16 53
T 13	7 55	14 6	4 0	6 21	1 9	22 32	1 55	18 35	0 26	17 3	0 27	19 24	0 44	15 42	0 44	16 53
F 14	8 17	9 53	4 34	7 6	1 3	22 49	1 58	18 47	0 27	17 0	0 27	19 23	0 44	15 43	0 44	16 53
S 15	8 39	5 7	4 55	7 50	0 57	23 5	2 1	18 58	0 28	16 58	0 27	19 23	0 44	15 43	0 44	16 54
S 16	9 1	0 1	5 1	8 33	0 51	23 20	2 4	19 9	0 28	16 56	0 28	19 23	0 44	15 43	0 44	16 54
M17	9 23	5n12	4 51	9 16	0 45	23 35	2 8	19 20	0 29	16 54	0 28	19 23	0 44	15 43	0 44	16 54
T 18	9 45	10 17	4 23	9 59	0 38	23 50	2 11	19 31	0 29	16 51	0 28	19 23	0 45	15 43	0 44	16 54
W19	10 7	14 55	3 40	10 40	0 32	24 4	2 14	19 42	0 30	16 49	0 28	19 23	0 45	15 43	0 44	16 54
T 20	10 28	18 46	2 43	11 21	0 25	24 17	2 17	19 52	0 31	16 47	0 28	19 22	0 45	15 44	0 44	16 54
F 21	10 49	21 32	1 35	12 2	0 19	24 29	2 20	20 2	0 31	16 45	0 29	19 22	0 45	15 44	0 44	16 54
S 22	11 10	22 57	0 22	12 42	0 12	24 41	2 22	20 13	0 32	16 43	0 29	19 22	0 45	15 44	0 44	16 54
S 23	11 31	22 54	0n54	13 21	0 5	24 52	2 25	20 23	0 32	16 41	0 29	19 22	0 45	15 44	0 44	16 54
M24	11 52	21 22	2 5	13 59	0s 2	25 3	2 28	20 32	0 33	16 39	0 29	19 21	0 45	15 44	0 44	16 54
T 25	12 13	18 33	3 9	14 37	0 9	25 13	2 31	20 42	0 33	16 37	0 29	19 21	0 45	15 44	0 44	16 54
W26	12 33	14 39	4 1	15 13	0 15	25 22	2 33	20 52	0 34	16 35	0 29	19 21	0 45	15 44	0 43	16 54
T 27	12 54	10 0	4 38	15 49	0 22	25 31	2 36	21 1	0 34	16 33	0 30	19 20	0 45	15 44	0 43	16 54
F 28	13 14	4 53	4 59	16 25	0 29	25 39	2 38	21 10	0 35	16 32	0 30	19 20	0 45	15 44	0 43	16 54
S 29	13 34	0s24	5 3	16 59	0 36	25 47	2 40	21 19	0 35	16 30	0 30	19 19	0 45	15 44	0 43	16 54
S 30	13 53	5 36	4 50	17 32	0 42	25 53	2 43	21 28	0 36	16 28	0 30	19 19	0 45	15 44	0 43	16 54
M31	14s13	10s28	4n21	18s 5	0s49	25s59	2s45	21s36	0s37	16n27	0n30	19s18	0s45	15s44	0s43	16s54

Julian Day Number = 2513179.5, Delta T = 135.47 sec  
Ecliptic obliquity = 23°25'01, Nutation = -0°00'17, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 27°05'54, Lahiri = 26°12'55

ASTRODIENST EPHEMERIS for the year 2168  
geocentric

NOVEMBER 2168

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 43 35	9♉ 9'06	22♉13	19♉58	24♉19	5♉ 8	16♉19	6♉43	19♉14	13♉ 8	12°R18	8°R20	9♉37	23♉ 1	1°R14	T 1
W 2	2 47 31	10° 9'05	4♉48	21°31	25°27	5°51	16°25	6°45	19°14	13° 9	12°18	8°13	9°34	23° 8	1°Y12	W 2
T 3	2 51 28	11° 9'06	17° 7	23° 3	26°34	6°35	16°31	6°47	19°14	13° 9	12°17	8° 8	9°31	23°15	1°10	T 3
F 4	2 55 24	12° 9'09	29°13	24°34	27°41	7°18	16°37	6°50	19°14	13° 9	12°17	8° 5	9°28	23°21	1° 8	F 4
S 5	2 59 21	13° 9'13	11♊ 8	26° 5	28°48	8° 1	16°42	6°52	19°15	13°10	12°16	8°D 5	9°25	23°28	1° 6	S 5
S 6	3 3 17	14° 9'18	22°57	27°35	29°55	8°45	16°47	6°55	19°15	13°10	12°16	8° 6	9°22	23°34	1° 4	S 6
M 7	3 7 14	15° 9'26	4♊45	29° 5	1♊ 2	9°28	16°52	6°58	19°16	13°10	12°15	8° 7	9°18	23°41	1° 3	M 7
T 8	3 11 11	16° 9'35	16°36	0♊35	2° 8	10°12	16°57	7° 0	19°16	13°11	12°14	8°R 7	9°15	23°48	1° 1	T 8
W 9	3 15 7	17° 9'45	28°37	2° 4	3°15	10°56	17° 2	7° 3	19°17	13°11	12°14	8° 7	9°12	23°54	0°59	W 9
T 10	3 19 4	18° 9'57	10♋52	3°33	4°21	11°39	17° 6	7° 6	19°17	13°12	12°13	8° 4	9° 9	24° 1	0°57	T 10
F 11	3 23 0	19°10'10	23°26	5° 1	5°27	12°23	17°11	7° 9	19°18	13°13	12°13	7°59	9° 6	24° 8	0°56	F 11
S 12	3 26 57	20°10'25	6♋23	6°28	6°32	13° 7	17°15	7°13	19°19	13°13	12°12	7°52	9° 3	24°14	0°54	S 12
S 13	3 30 53	21°10'41	19°43	7°56	7°38	13°51	17°19	7°16	19°19	13°14	12°11	7°45	8°59	24°21	0°53	S 13
M14	3 34 50	22°10'59	3♋27	9°22	8°43	14°35	17°23	7°19	19°20	13°14	12°10	7°37	8°56	24°28	0°51	M14
T 15	3 38 46	23°11'19	17°32	10°48	9°48	15°19	17°26	7°23	19°21	13°15	12°10	7°29	8°53	24°34	0°50	T 15
W16	3 42 43	24°11'40	1♌54	12°13	10°53	16° 3	17°30	7°26	19°22	13°16	12° 9	7°23	8°50	24°41	0°48	W16
T 17	3 46 39	25°12'03	16°26	13°38	11°58	16°47	17°33	7°30	19°23	13°17	12° 8	7°20	8°47	24°48	0°47	T 17
F 18	3 50 36	26°12'28	1♌ 3	15° 1	13° 2	17°31	17°36	7°33	19°24	13°17	12° 7	7°D18	8°43	24°54	0°46	F 18
S 19	3 54 33	27°12'54	15°37	16°24	14° 6	18°16	17°39	7°37	19°25	13°18	12° 7	7°18	8°40	25° 1	0°45	S 19
S 20	3 58 29	28°13'23	0♌ 5	17°46	15°10	19° 0	17°42	7°41	19°26	13°19	12° 6	7°19	8°37	25° 8	0°43	S 20
M21	4 2 26	29°13'53	14°22	19° 7	16°13	19°44	17°45	7°45	19°27	13°20	12° 5	7°21	8°34	25°14	0°42	M21
T 22	4 6 22	0♌14'25	28°27	20°27	17°17	20°29	17°47	7°49	19°29	13°21	12° 4	7°R21	8°31	25°21	0°41	T 22
W23	4 10 19	1°14'59	12♍19	21°45	18°20	21°13	17°49	7°53	19°30	13°22	12° 3	7°21	8°28	25°28	0°40	W23
T 24	4 14 15	2°15'34	25°58	23° 2	19°22	21°58	17°51	7°57	19°31	13°23	12° 2	7°19	8°24	25°34	0°39	T 24
F 25	4 18 12	3°16'11	9♎23	24°17	20°25	22°42	17°53	8° 1	19°32	13°24	12° 1	7°15	8°21	25°41	0°38	F 25
S 26	4 22 9	4°16'50	22°35	25°30	21°27	23°27	17°55	8° 6	19°34	13°25	12° 1	7°10	8°18	25°47	0°37	S 26
S 27	4 26 5	5°17'30	5♎34	26°40	22°28	24°12	17°56	8°10	19°35	13°26	12° 0	7° 4	8°15	25°54	0°36	S 27
M28	4 30 2	6°18'12	18°20	27°48	23°30	24°57	17°57	8°15	19°37	13°27	11°59	6°59	8°12	26° 1	0°36	M28
T 29	4 33 58	7°18'56	0♎53	28°54	24°31	25°42	17°58	8°19	19°38	13°28	11°58	6°54	8° 9	26° 7	0°35	T 29
W30	4 37 55	8♎19'41	13♎13	29♎55	25♎31	26♎26	17♎59	8♎24	19♎40	13♎30	11°57	6°50	8° 5	26♎14	0°Y34	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
T 1	14s32	14s46	3n40	18s36	0s55	26s 5	2s47	21s45	0s37	16n25	0n31	19s18	0s45	15s44	0s43	16s54	0s 3	19n19	3s32	23n 9	23n 4	22s38	3n37	3n25	
W 2	14 51	18 19	2 49	19 7	1 2	26 9	2 49	21 53	0 38	16 23	0 31	19 17	0 45	15 44	0 43	16 54	0 3	19 19	3 32	23 10	23 4	22 38	3 36	3 25	
T 3	15 10	20 58	1 50	19 37	1 8	26 13	2 51	22 1	0 38	16 22	0 31	19 17	0 45	15 43	0 43	16 54	0 3	19 19	3 32	23 10	23 5	22 37	3 35	3 24	
F 4	15 28	22 37	0 47	20 6	1 14	26 16	2 53	22 9	0 39	16 20	0 31	19 16	0 45	15 43	0 43	16 54	0 3	19 19	3 33	23 10	23 5	22 37	3 34	3 24	
S 5	15 46	23 13	0s16	20 34	1 20	26 19	2 54	22 16	0 39	16 19	0 31	19 15	0 45	15 43	0 43	16 54	0 3	19 19	3 33	23 10	23 5	22 37	3 34	3 24	
S 6	16 4	22 46	1 19	21 0	1 26	26 21	2 56	22 24	0 40	16 17	0 32	19 15	0 45	15 43	0 43	16 53	0 3	19 19	3 33	23 10	23 5	22 37	3 33	3 24	
M 7	16 22	21 18	2 19	21 26	1 32	26 22	2 58	22 31	0 40	16 16	0 32	19 14	0 45	15 43	0 43	16 53	0 3	19 19	3 33	23 10	23 5	22 36	3 32	3 24	
T 8	16 39	18 54	3 12	21 51	1 38	26 23	2 59	22 38	0 41	16 15	0 32	19 13	0 45	15 43	0 43	16 53	0 3	19 20	3 33	23 10	23 6	22 36	3 31	3 23	
W 9	16 57	15 40	3 58	22 14	1 43	26 23	3 0	22 44	0 41	16 14	0 32	19 13	0 45	15 42	0 43	16 53	0 3	19 20	3 33	23 10	23 6	22 36	3 30	3 23	
T 10	17 13	11 43	4 35	22 37	1 48	26 22	3 1	22 51	0 42	16 12	0 32	19 12	0 45	15 42	0 43	16 53	0 3	19 20	3 33	23 10	23 6	22 35	3 29	3 23	
F 11	17 30	7 10	4 58	22 58	1 54	26 21	3 2	22 57	0 42	16 11	0 33	19 11	0 45	15 42	0 43	16 53	0 3	19 20	3 33	23 11	23 6	22 35	3 28	3 23	
S 12	17 46	2 11	5 8	23 19	1 58	26 18	3 3	23 3	0 43	16 10	0 33	19 10	0 45	15 42	0 43	16 53	0 3	19 20	3 33	23 11	23 7	22 35	3 27	3 23	
S 13	18 2	3n 3	5 2	23 38	2 3	26 16	3 4	23 9	0 43	16 9	0 33	19 9	0 45	15 41	0 43	16 52	0 3	19 20	3 33	23 11	23 7	22 34	3 27	3 22	
M14	18 18	8 18	4 38	23 56	2 7	26 12	3 5	23 15	0 44	16 8	0 33	19 9	0 45	15 41	0 43	16 52	0 3	19 20	3 33	23 12	23 7	22 34	3 26	3 22	
T 15	18 33	13 16	3 57	24 13	2 11	26 8	3 5	23 20	0 44	16 7	0 33	19 8	0 45	15 41	0 43	16 52	0 3	19 20	3 33	23 12	23 7	22 34	3 25	3 22	
W16	18 48	17 35	3 0	24 28	2 15	26 3	3 6	23 25	0 45	16 6	0 34	19 7	0 45	15 41	0 43	16 52	0 3	19 20	3 33	23 13	23 7	22 33	3 24	3 22	
T 17	19 3	20 53	1 51	24 42	2 19	25 58	3 6	23 30	0 45	16 6	0 34	19 6	0 45	15 40	0 43	16 52	0 3	19 20	3 33	23 13	23 8	22 33	3 24	3 21	
F 18	19 17	22 51	0 34	24 55	2 22	25 52	3 6	23 35	0 45	16 5	0 34	19 5	0 45	15 40	0 43	16 51	0 3	19 20	3 33	23 13	23 8	22 33	3 23	3 21	
S 19	19 31	23 15	0n45	25 7	2 24	25 45	3 6	23 40	0 46	16 4	0 34	19 4	0 45	15 40	0 43	16 51	0 3	19 20	3 33	23 13	23 8	22 32	3 22	3 21	
S 20	19 45	22 5	2 1	25 18	2 27	25 38	3 6	23 44	0 46	16 4	0 34	19 3	0 45	15 39	0 43	16 51	0 3	19 20	3 33	23 13	23 8	22 32	3 21	3 21	
M21	19 58	19 30	3 8	25 27	2 29	25 30	3 6	23 48	0 47	16 3	0 35	19 2	0 45	15 39	0 43	16 51	0 3	19 20	3 33	23 13	23 8	22 31	3 21	3 21	
T 22	20 11	15 48	4 3	25 34	2 30	25 22	3 5	23 52	0 47	16 2	0 35	19 1	0 45	15 38	0 43	16 50	0 3	19 20	3 33	23 13	23 9	22 31	3 20	3 20	
W23	20 23	11 17	4 43	25 41	2 31	25 13	3 5	23 55	0 48	16 2	0 35	19 0	0 45	15 38	0 43	16 50	0 3	19 20	3 33	23 13	23 9	22 31	3 20	3 20	
T 24	20 36	6 17	5 6	25 46	2 32	25 3	3 4	23 58	0 48	16 2	0 35	18 59	0 45	15 37	0 43	16 50	0 3	19 20	3 33	23 13	23 9	22 30	3 19	3 20	
F 25	20 47	1 4	5 12	25 49	2 32	24 53	3 3	24 1	0 49	16 1	0 35	18 58	0 45	15 37	0 42	16 50	0 3	19 21	3 33	23 13	23 9	22 30	3 18	3 20	
S 26	20 59	4s 7	5 1	25 51	2 31	24 42	3 2	24 4	0 49	16 1	0 36	18 57	0 45	15 37	0 42	16 49	0 3	19 21	3 33	23 13	23 9	22 29	3 18	3 19	
S 27	21 10	9 3	4 35	25 52	2 30	24 31	3 1	24 7	0 49	16 1	0 36	18 55	0 45	15 36	0 42	16 49	0 3	19 21	3 33	23 14	23 10	22 29	3 17	3 19	
M28	21 20	13 30	3 55	25 52	2 28	24 19	2 59	24 9	0 50	16 1	0 36	18 54	0 45	15 36	0 42	16 49	0 3	19 21	3 33	23 14	23 10	22 29	3 17	3 19	
T 29	21 31	17 18	3 4	25 50	2 25	24 7	2 58	24 11	0 50	16 0	0 36	18 53	0 45	15 35	0 42	16 48	0 3	19 21	3 33	23 14	23 10	22 28	3 16	3 19	
W30	21s40	20s17	2n 6	25s46	2s21	23s54	2s56	24s13	0s51	16n 0	0n37	18s52	0s45	15s35	0s42	16s48	0s 3	19n21	3s33	23n14	23n10	22s28	3n16	3n18	

ASTRODIENST EPHEMERIS for the year 2168  
geocentric

DECEMBER 2168

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	4 41 51	9♉20'27	25♊23	0♈53	26♈32	27♉11	18♊0	8♋29	19♋42	13♌31	11♍R56	6♎R48	8♏2	26♈21	0♎R34	T 1
F 2	4 45 48	10°21'14	7♈22	1°47	27°31	27°56	18° 0	8°33	19°43	13°32	11♏55	6°D48	7°59	26°27	0♎Y33	F 2
S 3	4 49 44	11°22'02	19°14	2°35	28°31	28°42	18° 0	8°38	19°45	13°33	11°54	6♏48	7°56	26°34	0°33	S 3
S 4	4 53 41	12°22'52	1♋2	3°18	29°30	29°27	18°R 0	8°43	19°47	13°35	11°53	6°50	7°53	26°41	0°32	S 4
M 5	4 57 38	13°23'42	12°49	3°54	0♋28	0♈12	18° 0	8°48	19°49	13°36	11°52	6°52	7°49	26°47	0°32	M 5
T 6	5 1 34	14°24'33	24°39	4°23	1°26	0°57	18° 0	8°53	19°50	13°37	11°50	6°53	7°46	26°54	0°32	T 6
W 7	5 5 31	15°25'26	6♊38	4°44	2°24	1°42	17°59	8°58	19°52	13°39	11°49	6°54	7°43	27° 1	0°31	W 7
T 8	5 9 27	16°26'18	18°51	4°57	3°21	2°28	17°59	9° 4	19°54	13°40	11°48	6°R55	7°40	27° 7	0°31	T 8
F 9	5 13 24	17°27'12	1♎21	4°R59	4°17	3°13	17°58	9° 9	19°56	13°42	11°47	6°54	7°37	27°14	0°31	F 9
S 10	5 17 20	18°28'06	14°13	4°51	5°13	3°59	17°57	9°14	19°58	13°43	11°46	6°52	7°34	27°21	0°31	S 10
S 11	5 21 17	19°29'01	27°31	4°32	6° 8	4°44	17°55	9°20	20° 0	13°44	11°45	6°50	7°30	27°27	0°D31	S 11
M12	5 25 13	20°29'57	11♊16	4° 1	7° 3	5°30	17°54	9°25	20° 2	13°46	11°44	6°48	7°27	27°34	0°31	M12
T 13	5 29 10	21°30'54	25°27	3°20	7°57	6°15	17°52	9°31	20° 5	13°48	11°43	6°46	7°24	27°41	0°31	T 13
W14	5 33 7	22°31'51	10♊0	2°27	8°50	7° 1	17°50	9°36	20° 7	13°49	11°42	6°44	7°21	27°47	0°31	W14
T 15	5 37 3	23°32'49	24°51	1°24	9°43	7°46	17°48	9°42	20° 9	13°51	11°40	6°43	7°18	27°54	0°31	T 15
F 16	5 41 0	24°33'48	9♏51	0°13	10°35	8°32	17°46	9°48	20°11	13°52	11°39	6°D43	7°15	28° 1	0°32	F 16
S 17	5 44 56	25°34'48	24°52	28♊55	11°26	9°18	17°43	9°53	20°14	13°54	11°38	6°43	7°11	28° 7	0°32	S 17
S 18	5 48 53	26°35'49	9♊45	27°33	12°17	10° 4	17°40	9°59	20°16	13°56	11°37	6°44	7° 8	28°14	0°32	S 18
M19	5 52 49	27°36'50	24°24	26°10	13° 6	10°50	17°38	10° 5	20°18	13°57	11°36	6°45	7° 5	28°21	0°33	M19
T 20	5 56 46	28°37'53	8♎44	24°48	13°55	11°35	17°34	10°11	20°21	13°59	11°35	6°46	7° 2	28°27	0°33	T 20
W21	6 0 42	29°38'56	22°43	23°31	14°43	12°21	17°31	10°17	20°23	14° 1	11°33	6°46	6°59	28°34	0°34	W21
T 22	6 4 39	0♈40'00	6♊20	22°20	15°30	13° 7	17°28	10°23	20°26	14° 3	11°32	6°R46	6°55	28°40	0°34	T 22
F 23	6 8 36	1°41'05	19°36	21°18	16°16	13°53	17°24	10°29	20°28	14° 4	11°31	6°46	6°52	28°47	0°35	F 23
S 24	6 12 32	2°42'11	2♊34	20°26	17° 2	14°40	17°20	10°35	20°31	14° 6	11°30	6°45	6°49	28°54	0°36	S 24
S 25	6 16 29	3°43'18	15°15	19°44	17°46	15°26	17°16	10°42	20°34	14° 8	11°29	6°45	6°46	29° 0	0°36	S 25
M26	6 20 25	4°44'25	27°42	19°12	18°29	16°12	17°12	10°48	20°36	14°10	11°27	6°45	6°43	29° 7	0°37	M26
T 27	6 24 22	5°45'33	9♊57	18°52	19°11	16°58	17° 8	10°54	20°39	14°12	11°26	6°44	6°40	29°14	0°38	T 27
W28	6 28 18	6°46'42	22° 3	18°42	19°52	17°44	17° 3	11° 0	20°42	14°14	11°25	6°D44	6°36	29°20	0°39	W28
T 29	6 32 15	7°47'50	4♈2	18°D42	20°31	18°31	16°59	11° 7	20°44	14°15	11°24	6°R44	6°33	29°27	0°40	T 29
F 30	6 36 11	8°49'00	15°54	18°51	21°10	19°17	16°54	11°13	20°47	14°17	11°22	6°44	6°30	29°34	0°41	F 30
S 31	6 40 8	9♈50'09	27♈43	19♊8	21♋47	20♈3	16♊49	11♋20	20♋50	14♋19	11♏21	6♏44	6♏27	29♈40	0♎Y42	S 31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	21s50	22s18	1n 2	25s42	2s17	23s40	2s54	24s14	0s51	16n 0	0n37	18s51	0s45	15s34
F 2	21 59	23 16	0s 3	25 36	2 11	23 26	2 52	24 15	0 51	16 0	0 37	18 49	0 45	15 33
S 3	22 7	23 10	1 8	25 28	2 5	23 12	2 49	24 16	0 52	16 1	0 37	18 48	0 45	15 33
S 4	22 15	22 1	2 10	25 20	1 57	22 57	2 47	24 17	0 52	16 1	0 37	18 47	0 45	15 32
M 5	22 23	19 55	3 6	25 10	1 48	22 42	2 44	24 18	0 53	16 1	0 38	18 46	0 45	15 32
T 6	22 30	16 58	3 54	24 59	1 38	22 26	2 41	24 18	0 53	16 1	0 38	18 44	0 45	15 31
W 7	22 37	13 18	4 33	24 47	1 27	22 10	2 38	24 18	0 53	16 2	0 38	18 43	0 45	15 30
T 8	22 44	9 1	5 1	24 34	1 14	21 54	2 35	24 17	0 54	16 2	0 38	18 42	0 45	15 30
F 9	22 50	4 17	5 15	24 19	1 0	21 37	2 31	24 17	0 54	16 3	0 39	18 40	0 45	15 29
S 10	22 55	0n47	5 14	24 4	0 45	21 20	2 28	24 16	0 54	16 3	0 39	18 39	0 45	15 28
S 11	23 0	5 58	4 56	23 48	0 28	21 2	2 24	24 15	0 55	16 4	0 39	18 37	0 45	15 28
M12	23 5 11	3 4	21 23	31 0	0 10	20 44	2 19	24 13	0 55	16 5	0 39	18 36	0 45	15 27
T 13	23 9 15	43 3	29 23	13 0n	9 20	26 2	15 24	11 0	55 16	5 0	39 18	34 0	45 15	26 0
W14	23 12 19	34 2	23 22	55 0	29 20	8 2	10 24	10 0	56 16	6 0	40 18	33 0	45 15	26 0
T 15	23 16 22	14 1	5 22	35 0	49 19	49 2	6 24	7 0	56 16	7 0	40 18	32 0	45 15	25 0
F 16	23 18 23	20 1	39 22	16 1	9 19	30 2	0 24	5 0	56 16	8 0	40 18	30 0	45 15	24 0
S 17	23 21 22	46 1n17	21 56 1	29 19	11 1	55 24	2 0	16 8	57 16	9 0	40 18	28 0	45 15	23 0
S 18	23 22 20	35 2	53 21	36 1	47 18	51 1	50 23	59 0	57 16	10 0	41 18	27 0	45 15	23 0
M19	23 24 17	4 3	55 21	17 2	4 18	31 1	44 23	56 0	57 16	11 0	41 18	25 0	45 15	22 0
T 20	23 25 12	37 4	41 20	59 2	20 18	12 1	38 23	52 0	58 16	12 0	41 18	24 0	45 15	21 0
W21	23 25 7	37 5	8 20	43 2	32 17	52 1	31 23	48 0	58 16	13 0	41 18	22 0	45 15	20 0
T 22	23 25 2	21 5	18 20	29 2	43 17	31 1	25 23	44 0	58 16	15 0	41 18	21 0	45 15	19 0
F 23	23 24 2s53	5 10	20 17 2	51 17	11 1	18 23	40 0	58 16	16 0	16 0	42 18	19 0	45 15	19 0
S 24	23 23 7	52 4	46 20	8 2	57 16	51 1	11 23	35 0	59 16	17 0	42 18	17 0	45 15	18 0
S 25	23 22 12	25 4	9 20	1 3	0 16	30 1	3 23	30 0	59 16	19 0	42 18	16 0	45 15	17 0
M26	23 20 16	22 3	21 19	58 3	2 16	9 0	56 23	25 0	59 16	20 0	42 18	14 0	45 15	16 0
T 27	23 18 19	33 2	24 19	56 3	1 15	49 0	48 23	20 1	0 16	22 0	43 18	12 0	45 15	15 0
W28	23 15 21	50 1	21 19	57 2	59 15	28 0	39 23	14 1	0 16	23 0	43 18	11 0	45 15	14 0
T 29	23 11 23	6 0	15 20	1 2	56 15	8 0	31 23	8 1	0 16	25 0	43 18	9 0	45 15	13 0
F 30	23 7 23	19 0s1	20 6 2	51 14	47 0	22 23	2 1	0 16	27 0	43 18	7 0	45 15	13 0	12 0
S 31	23s 3	22s28	1s54	20s13	2n46	14s26	0s13	22s55	1s 1	16n28	0n43	18s 5	0s45	15s12

Julian Day Number = 2513240.5, Delta T = 135.60 sec  
Ecliptic obliquity = 23°25'01, Nutation = - 0°00'18, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 27°06'03, Lahiri = 26°13'03