



Astrodienst Ephemeris Tables for the year 2159

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 2159
geocentric

JANUARY 2159

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 41 50	10 ³ 16'53	24 ⁸ 6	14 ³ 53	7 ⁴ 14	7 ¹¹ 13	13 ⁴ 30	27 ² 38	11 ³ 56	23 ³ 4	0°R13	19°R16	19 ³ 51	13 ² 2	19 ⁴ 4	M 1
T 2	6 45 46	11°18'01	9 ¹¹ 0	16°30	8°29	7°48	13°35	27°42	12° 0	23° 7	0 ⁰ 12	19 ³ 15	19°47	13° 9	19° 8	T 2
W 3	6 49 43	12°19'08	24° 3	18° 8	9°43	8°24	13°39	27°46	12° 3	23° 9	0°11	19°14	19°44	13°15	19°11	W 3
T 4	6 53 40	13°20'16	9 ⁰⁸ 8	19°45	10°58	8°59	13°44	27°49	12° 7	23°11	0°10	19°14	19°41	13°22	19°15	T 4
F 5	6 57 36	14°21'23	24° 6	21°23	12°12	9°35	13°49	27°53	12°11	23°13	0° 9	19°D14	19°38	13°29	19°19	F 5
S 6	7 1 33	15°22'31	8 ⁰² 47	23° 1	13°27	10°10	13°53	27°56	12°14	23°16	0° 7	19°14	19°35	13°35	19°23	S 6
S 7	7 5 29	16°23'39	23° 7	24°40	14°41	10°45	13°57	27°59	12°18	23°18	0° 6	19°14	19°32	13°42	19°27	S 7
M 8	7 9 26	17°24'46	7 ¹⁰ 0	26°18	15°55	11°21	14° 1	28° 2	12°21	23°20	0° 5	19°14	19°28	13°49	19°31	M 8
T 9	7 13 22	18°25'54	20°27	27°57	17°10	11°56	14° 5	28° 5	12°25	23°22	0° 4	19°15	19°25	13°56	19°35	T 9
W10	7 17 19	19°27'02	3 ¹² 28	29°35	18°24	12°31	14° 9	28° 8	12°29	23°25	0° 3	19°R15	19°22	14° 2	19°39	W10
T 11	7 21 15	20°28'11	16° 6	1 ¹¹ 14	19°38	13° 6	14°12	28°11	12°32	23°27	0° 2	19°D15	19°19	14° 9	19°43	T 11
F 12	7 25 12	21°29'19	28°25	2°53	20°52	13°41	14°16	28°14	12°36	23°29	0° 1	19°15	19°16	14°16	19°48	F 12
S 13	7 29 9	22°30'27	10 ¹¹ 30	4°32	22° 7	14°16	14°19	28°16	12°39	23°31	29 ¹¹ 59	19°15	19°13	14°22	19°52	S 13
S 14	7 33 5	23°31'36	22°25	6°10	23°21	14°51	14°22	28°19	12°43	23°34	29°59	19°15	19° 9	14°29	19°56	S 14
M15	7 37 2	24°32'44	4 ¹¹ 14	7°48	24°35	15°26	14°24	28°21	12°46	23°36	29°57	19°16	19° 6	14°36	20° 0	M15
T 16	7 40 58	25°33'53	16° 2	9°26	25°49	16° 1	14°27	28°23	12°50	23°38	29°56	19°16	19° 3	14°42	20° 4	T 16
W17	7 44 55	26°35'01	27°53	11° 3	27° 3	16°36	14°29	28°26	12°53	23°41	29°55	19°17	19° 0	14°49	20° 9	W17
T 18	7 48 51	27°36'09	9 ⁰⁸ 48	12°38	28°17	17°11	14°32	28°28	12°57	23°43	29°54	19°18	18°57	14°56	20°13	T 18
F 19	7 52 48	28°37'16	21°51	14°13	29°31	17°45	14°34	28°30	13° 0	23°45	29°53	19°R18	18°53	15° 2	20°17	F 19
S 20	7 56 44	29°38'23	4 ¹¹ 4	15°46	0 ¹¹ 45	18°20	14°36	28°32	13° 4	23°47	29°52	19°17	18°50	15° 9	20°21	S 20
S 21	8 0 41	0 ¹¹ 39'30	16°28	17°17	1°59	18°55	14°37	28°33	13° 7	23°50	29°51	19°16	18°47	15°16	20°26	S 21
M22	8 4 38	1°40'35	29° 3	18°46	3°13	19°29	14°39	28°35	13°11	23°52	29°50	19°15	18°44	15°22	20°30	M22
T 23	8 8 34	2°41'40	11 ¹¹ 52	20°12	4°27	20° 4	14°40	28°37	13°14	23°54	29°49	19°13	18°41	15°29	20°35	T 23
W24	8 12 31	3°42'45	24°54	21°35	5°41	20°38	14°41	28°38	13°18	23°56	29°48	19°11	18°38	15°36	20°39	W24
T 25	8 16 27	4°43'48	8 ¹¹ 10	22°53	6°55	21°12	14°42	28°40	13°21	23°59	29°47	19° 9	18°34	15°42	20°43	T 25
F 26	8 20 24	5°44'50	21°42	24° 7	8° 9	21°46	14°43	28°41	13°25	24° 1	29°46	19° 8	18°31	15°49	20°48	F 26
S 27	8 24 20	6°45'52	5 ¹¹ 28	25°16	9°22	22°21	14°43	28°42	13°28	24° 3	29°45	19°D 7	18°28	15°56	20°52	S 27
S 28	8 28 17	7°46'52	19°30	26°19	10°36	22°55	14°44	28°43	13°31	24° 5	29°45	19° 8	18°25	16° 2	20°57	S 28
M29	8 32 13	8°47'51	3 ¹¹ 46	27°14	11°49	23°29	14°R44	28°44	13°35	24° 8	29°44	19° 9	18°22	16° 9	21° 1	M29
T 30	8 36 10	9°48'50	18°14	28° 2	13° 3	24° 3	14°44	28°45	13°38	24°10	29°43	19°10	18°19	16°16	21° 6	T 30
W31	8 40 7	10 ¹¹ 49'47	2 ⁰⁸ 51	28 ¹¹ 41	14 ¹¹ 17	24 ¹¹ 36	14 ¹¹ 43	28 ¹¹ 46	13 ¹¹ 41	24 ¹¹ 12	29 ¹¹ 42	19 ¹¹ 31	18 ¹¹ 35	16 ¹¹ 22	21 ¹¹ 10	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	23s 1	22n59	4n21	24s34	2s 0	20s 5	1s42	12s47	1n11	4s 8	1n17	8s22	2n25	23s13	0s20	20s52
T 2	22 56	25 10	3 25	24 25	2 2	19 47	1 42	12 59	1 11	4 10	1 17	8 23	2 25	23 13	0 20	20 52
W 3	22 51	25 32	2 15	24 15	2 4	19 27	1 43	13 11	1 11	4 11	1 18	8 24	2 25	23 13	0 20	20 52
T 4	22 45	24 2	0 56	24 4	2 6	19 7	1 43	13 22	1 10	4 13	1 18	8 25	2 26	23 12	0 20	20 51
F 5	22 39	20 50	0s27	23 49	2 7	18 46	1 43	13 34	1 10	4 15	1 18	8 26	2 26	23 12	0 20	20 51
S 6	22 32	16 20	1 47	23 34	2 8	18 25	1 43	13 45	1 10	4 16	1 18	8 27	2 26	23 12	0 20	20 51
S 7	22 25	11 0	2 57	23 17	2 9	18 4	1 43	13 56	1 10	4 17	1 19	8 28	2 26	23 11	0 20	20 50
M 8	22 17	5 17	3 56	22 59	2 9	17 42	1 43	14 7	1 10	4 19	1 19	8 29	2 27	23 11	0 20	20 50
T 9	22 9	0s30	4 39	22 39	2 8	17 19	1 43	14 18	1 9	4 20	1 19	8 30	2 27	23 11	0 20	20 49
W10	22 1	6 3	5 6	22 18	2 7	16 56	1 43	14 29	1 9	4 21	1 20	8 31	2 27	23 10	0 20	20 49
T 11	21 52	11 12	5 17	21 55	2 6	16 33	1 43	14 40	1 9	4 22	1 20	8 31	2 27	23 10	0 20	20 49
F 12	21 42	15 47	5 14	21 31	2 4	16 9	1 42	14 51	1 8	4 23	1 20	8 32	2 28	23 10	0 20	20 48
S 13	21 33	19 39	4 56	21 5	2 2	15 44	1 42	15 1	1 8	4 24	1 20	8 33	2 28	23 9	0 20	20 48
S 14	21 22	22 39	4 26	20 38	1 59	15 19	1 42	15 12	1 8	4 25	1 21	8 33	2 28	23 9	0 20	20 48
M15	21 12	24 40	3 45	20 9	1 55	14 54	1 41	15 22	1 8	4 26	1 21	8 34	2 28	23 9	0 20	20 47
T 16	21 1	25 35	2 54	19 39	1 50	14 28	1 40	15 33	1 7	4 27	1 21	8 35	2 29	23 8	0 20	20 47
W17	20 49	25 20	1 56	19 8	1 45	14 2	1 39	15 43	1 7	4 27	1 21	8 35	2 29	23 8	0 20	20 46
T 18	20 37	23 56	0 52	18 36	1 40	13 36	1 39	15 53	1 7	4 28	1 22	8 36	2 29	23 8	0 20	20 46
F 19	20 25	21 25	0n14	18 2	1 33	13 9	1 38	16 3	1 6	4 29	1 22	8 36	2 30	23 7	0 20	20 46
S 20	20 13	17 55	1 21	17 28	1 26	12 42	1 37	16 13	1 6	4 29	1 22	8 36	2 30	23 7	0 20	20 45
S 21	20 0	13 35	2 25	16 53	1 18	12 15	1 36	16 23	1 5	4 29	1 22	8 37	2 30	23 7	0 20	20 45
M22	19 46	8 37	3 23	16 17	1 9	11 47	1 35	16 32	1 5	4 30	1 23	8 37	2 30	23 6	0 20	20 45
T 23	19 32	3 13	4 12	15 40	0 59	11 19	1 33	16 42	1 5	4 30	1 23	8 38	2 31	23 6	0 20	20 44
W24	19 18	2n23	4 48	15 4	0 48	10 51	1 32	16 51	1 5	4 30	1 23	8 38	2 31	23 6	0 20	20 44
T 25	19 4	7 59	5 10	14 27	0 37	10 22	1 31	17 1	1 4	4 30	1 23	8 38	2 31	23 5	0 20	20 43
F 26	18 49	13 20	5 16	13 51	0 24	9 53	1 29	17 10	1 4	4 30	1 24	8 38	2 31	23 5	0 21	20 43
S 27	18 34	18 6	5 3	13 16	0 11	9 24	1 28	17 19	1 4	4 30	1 24	8 38	2 32	23 5	0 21	20 43
S 28	18 19	21 58	4 33	12 41	0n 3	8 55	1 26	17 28	1 3	4 30	1 24	8 38	2 32	23 4	0 21	20 42
M29	18 3	24 34	3 45	12 8	0 18	8 25	1 24	17 37	1 3	4 30	1 25	8 39	2 32	23 4	0 21	20 42
T 30	17 47	25 36	2 43	11 37	0 34	7 55	1 22	17 46	1 2	4 30	1 25	8 39	2 32	23 4	0 21	20 42
W31	17s30	24n52	1n29	11s 8	0n50	7s25	1s21	17s54	1n 2	4s29	1n25	8s39	2n33	23s 3	0s21	20s41

Julian Day Number = 2509618.5, Delta T = 128.05 sec
Ecliptic obliquity = 23°25'10, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°57'43, Lahiri = 26°04'44

ASTRODIENST EPHEMERIS for the year 2159

geocentric

FEBRUARY 2159

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 44 3	11°50'43	17°31	29°10	15°30	25°10	14°R43	28°46	13°45	24°14	29°R41	19°R12	18°12	16°29	21°15	T 1
F 2	8 48 0	12°51'38	2°9	29°30	16°43	25°44	14°42	28°47	13°48	24°16	29°R40	19°R11	18°9	16°36	21°19	F 2
S 3	8 51 56	13°52'31	16°38	29°R39	17°57	26°18	14°42	28°47	13°51	24°19	29°39	19°10	18°6	16°42	21°24	S 3
S 4	8 55 53	14°53'24	0°52	29°36	19°10	26°51	14°41	28°48	13°54	24°21	29°39	19°7	18°3	16°49	21°28	S 4
M 5	8 59 49	15°54'16	14°45	29°23	20°23	27°25	14°39	28°48	13°58	24°23	29°38	19°3	17°59	16°56	21°33	M 5
T 6	9 3 346	16°55'07	28°16	28°58	21°36	27°58	14°38	28°48	14°1	24°25	29°37	18°58	17°56	17°2	21°37	T 6
W 7	9 7 42	17°55'57	11°22	28°23	22°49	28°31	14°36	28°R48	14°4	24°27	29°36	18°54	17°53	17°9	21°42	W 7
T 8	9 11 39	18°56'46	24°6	27°38	24°2	29°5	14°35	28°48	14°7	24°29	29°36	18°50	17°50	17°16	21°46	T 8
F 9	9 15 36	19°57'34	6°29	26°44	25°15	29°38	14°33	28°48	14°10	24°31	29°35	18°48	17°47	17°22	21°51	F 9
S 10	9 19 32	20°58'21	18°36	25°43	26°28	0°11	14°31	28°47	14°13	24°33	29°34	18°D47	17°44	17°29	21°55	S 10
S 11	9 23 29	21°59'08	0°32	24°37	27°41	0°44	14°28	28°47	14°16	24°36	29°34	18°47	17°40	17°36	22°0	S 11
M 12	9 27 25	22°59'53	12°22	23°27	28°53	1°17	14°26	28°46	14°19	24°38	29°33	18°48	17°37	17°42	22°4	M 12
T 13	9 31 22	24°0'37	24°10	22°16	0°6	1°49	14°23	28°46	14°22	24°40	29°32	18°50	17°34	17°49	22°9	T 13
W 14	9 35 18	25°1'21	6°2	21°5	1°19	2°22	14°20	28°45	14°25	24°42	29°32	18°52	17°31	17°56	22°13	W 14
T 15	9 39 15	26°2'03	18°2	19°57	2°31	2°55	14°17	28°44	14°28	24°44	29°31	18°R53	17°28	18°2	22°18	T 15
F 16	9 43 11	27°2'44	0°13	18°52	3°44	3°27	14°14	28°43	14°31	24°46	29°30	18°52	17°24	18°9	22°22	F 16
S 17	9 47 8	28°3'23	12°39	17°53	4°56	4°0	14°11	28°42	14°34	24°48	29°30	18°49	17°21	18°16	22°27	S 17
S 18	9 51 5	29°4'02	25°20	16°59	6°8	4°32	14°7	28°41	14°37	24°50	29°29	18°45	17°18	18°22	22°31	S 18
M 19	9 55 1	0°4'38	8°17	16°13	7°20	5°4	14°3	28°40	14°39	24°52	29°29	18°39	17°15	18°29	22°36	M 19
T 20	9 58 58	1°5'14	21°30	15°34	8°32	5°36	13°59	28°39	14°42	24°54	29°28	18°31	17°12	18°36	22°40	T 20
W 21	10 2 54	2°5'47	4°56	15°3	9°44	6°8	13°55	28°37	14°45	24°56	29°28	18°23	17°9	18°42	22°45	W 21
T 22	10 6 51	3°6'19	18°34	14°39	10°56	6°40	13°51	28°36	14°48	24°57	29°27	18°16	17°5	18°49	22°49	T 22
F 23	10 10 47	4°6'49	2°22	14°24	12°8	7°11	13°46	28°34	14°50	24°59	29°27	18°11	17°2	18°56	22°54	F 23
S 24	10 14 44	5°7'18	16°18	14°15	13°20	7°43	13°42	28°32	14°53	25°1	29°27	18°7	16°59	19°2	22°58	S 24
S 25	10 18 40	6°7'45	0°20	14°D14	14°32	8°14	13°37	28°30	14°55	25°3	29°26	18°D5	16°56	19°9	23°3	S 25
M 26	10 22 37	7°8'09	14°26	14°19	15°43	8°46	13°32	28°28	14°58	25°5	29°26	18°5	16°53	19°15	23°7	M 26
T 27	10 26 34	8°8'32	28°36	14°30	16°55	9°17	13°27	28°26	15°0	25°7	29°25	18°6	16°50	19°22	23°11	T 27
W 28	10 30 30	9°8'53	12°48	14°48	18°6	9°48	13°22	28°24	15°3	25°8	29°25	18°R7	16°46	19°29	23°16	W 28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	17s13	22n25	0n 9	10s42	1n 7	6s55	1s19	18s 3	1n 2	4s29	1n25	8s39	2n33	23s 3	0s21	20s41	0n35	16n44	6s41	22s 3	22s11	25s26	8s37	6n 7	
F 2	16 56	18 31	1s11	10 19	1 25	6 25	1 17	18 11	1 1	4 29	1 26	8 39	2 33	23 3	0 21	20 40	0 35	16 44	6 41	22 3	22 11	25 26	8 35	6 6	
S 3	16 39	13 32	2 25	10 0	1 42	5 54	1 15	18 19	1 1	4 28	1 26	8 38	2 34	23 3	0 21	20 40	0 35	16 45	6 41	22 3	22 12	25 26	8 34	6 6	
S 4	16 21	7 54	3 29	9 44	1 59	5 24	1 12	18 28	1 0	4 27	1 26	8 38	2 34	23 2	0 21	20 40	0 35	16 45	6 40	22 4	22 12	25 26	8 33	6 6	
M 5	16 3	2 1	4 19	9 33	2 16	4 53	1 10	18 36	1 0	4 27	1 26	8 38	2 34	23 2	0 21	20 39	0 35	16 45	6 40	22 4	22 13	25 26	8 31	6 6	
T 6	15 45	3s48	4 53	9 26	2 32	4 22	1 8	18 44	0 59	4 26	1 27	8 38	2 34	23 2	0 21	20 39	0 35	16 45	6 40	22 5	22 13	25 25	8 30	6 6	
W 7	15 27	9 15	5 11	9 24	2 48	3 51	1 5	18 51	0 59	4 25	1 27	8 38	2 35	23 1	0 21	20 39	0 35	16 45	6 40	22 5	22 14	25 25	8 29	6 6	
T 8	15 8	14 10	5 12	9 27	3 1	3 20	1 3	18 59	0 58	4 24	1 27	8 37	2 35	23 1	0 21	20 38	0 35	16 45	6 40	22 6	22 14	25 25	8 27	6 6	
F 9	14 49	18 22	4 59	9 33	3 14	2 49	1 0	19 7	0 58	4 23	1 27	8 37	2 35	23 1	0 21	20 38	0 35	16 46	6 40	22 6	22 14	25 25	8 26	6 6	
S 10	14 30	21 42	4 32	9 44	3 24	2 17	0 58	19 14	0 57	4 22	1 28	8 37	2 35	23 0	0 21	20 37	0 35	16 46	6 39	22 6	22 15	25 25	8 25	6 6	
S 11	14 10	24 4	3 54	9 59	3 32	1 46	0 55	19 22	0 57	4 21	1 28	8 36	2 36	23 0	0 21	20 37	0 35	16 46	6 39	22 6	22 15	25 25	8 23	6 6	
M12	13 50	25 20	3 6	10 16	3 38	1 15	0 52	19 29	0 56	4 20	1 28	8 36	2 36	23 0	0 21	20 37	0 35	16 46	6 39	22 6	22 16	25 25	8 22	6 6	
T 13	13 30	25 28	2 11	10 36	3 41	0 43	0 50	19 36	0 56	4 19	1 28	8 35	2 36	22 59	0 21	20 36	0 35	16 46	6 39	22 6	22 16	25 25	8 20	6 6	
W14	13 10	24 26	1 10	10 57	3 42	0 12	0 47	19 43	0 55	4 17	1 29	8 35	2 36	22 59	0 21	20 36	0 35	16 46	6 39	22 6	22 16	25 24	8 19	6 6	
T 15	12 50	22 17	0 5	11 20	3 40	0n20	0 44	19 50	0 55	4 16	1 29	8 34	2 37	22 59	0 21	20 36	0 35	16 47	6 39	22 5	22 17	25 24	8 18	6 6	
F 16	12 29	19 5	1n 1	11 43	3 36	0 51	0 41	19 57	0 54	4 14	1 29	8 34	2 37	22 59	0 21	20 35	0 35	16 47	6 38	22 6	22 17	25 24	8 16	6 6	
S 17	12 8	14 59	2 6	12 7	3 31	1 23	0 38	20 3	0 53	4 13	1 29	8 33	2 37	22 58	0 21	20 35	0 35	16 47	6 38	22 6	22 18	25 24	8 15	6 6	
S 18	11 47	10 10	3 5	12 30	3 23	1 54	0 35	20 10	0 53	4 11	1 30	8 33	2 38	22 58	0 21	20 35	0 35	16 47	6 38	22 7	22 18	25 24	8 13	6 6	
M19	11 26	4 48	3 56	12 52	3 15	2 26	0 32	20 16	0 52	4 10	1 30	8 32	2 38	22 58	0 21	20 34	0 35	16 47	6 38	22 7	22 18	25 24	8 12	6 6	
T 20	11 5	0n51	4 35	13 13	3 5	2 57	0 28	20 22	0 52	4 8	1 30	8 31	2 38	22 57	0 21	20 34	0 35	16 47	6 38	22 8	22 19	25 23	8 11	6 6	
W21	10 43	6 33	5 0	13 33	2 53	3 28	0 25	20 29	0 51	4 6	1 30	8 30	2 38	22 57	0 21	20 33	0 35	16 48	6 37	22 9	22 19	25 23	8 9	6 6	
T 22	10 21	12 1	5 8	13 51	2 42	4 0	0 22	20 35	0 50	4 4	1 30	8 30	2 39	22 57	0 21	20 33	0 35	16 48	6 37	22 10	22 20	25 23	8 8	6 6	
F 23	10 0	16 58	4 59	14 7	2 29	4 31	0 18	20 41	0 50	4 2	1 31	8 29	2 39	22 57	0 21	20 33	0 35	16 48	6 37	22 11	22 20	25 23	8 6	6 6	
S 24	9 38	21 2	4 32	14 22	2 16	5 2	0 15	20 46	0 49	4 0	1 31	8 28	2 39	22 56	0 21	20 32	0 35	16 48	6 37	22 12	22 20	25 23	8 5	6 6	
S 25	9 15	23 56	3 49	14 35	2 3	5 33	0 11	20 52	0 48	3 58	1 31	8 27	2 39	22 56	0 21	20 32	0 35	16 48	6 37	22 12	22 21	25 22	8 3	6 6	
M26	8 53	25 21	2 51	14 46	1 50	6 4	0 8	20 58	0 47	3 56	1 31	8 26	2 39	22 56	0 21	20 32	0 35	16 49	6 37	22 12	22 21	25 22	8 2	6 6	
T 27	8 31	25 8	1 43	14 55	1 37	6 34	0 4	21 3	0 47	3 54	1 32	8 25	2 40	22 56	0 21	20 31	0 35	16 49	6 36	22 12	22 22	25 22	8 0	6 6	
W28	8s 8	23n17	0n29	15s 2	1n24	7n 5	0s 1	21s 9	0n46	3s52	1n32	8s24	2n40	22s55	0s21	20s31	0n35	16n49	6s36	22s12	22s22	25s22	7s59	6n 6	

Julian Day Number = 2509649.5, Delta T = 128.11 sec

Ecliptic obliquity = 23°25'10, Nutation = 0°00'18, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°57'48, Lahiri = 26°04'48

ASTRODIENST EPHEMERIS for the year 2159

geocentric

MARCH 2159

00:00 UT

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

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	7s45	19n58	0s48	15s 8	1n11	7n35	0n 3	21s14	0n45	3s50	1n32	8s23	2n40	22s55	0s21	20s31
F 2	7 23	15 29	2 1	15 12	0 59	8 6	0 7	21 19	0 44	3 47	1 32	8 22	2 40	22 55	0 21	20 31
S 3	7 0	10 11	3 6	15 14	0 46	8 36	0 10	21 24	0 44	3 45	1 32	8 21	2 41	22 55	0 21	20 30
S 4	6 37	4 28	3 59	15 14	0 34	9 6	0 14	21 29	0 43	3 42	1 32	8 20	2 41	22 54	0 21	20 30
M 5	6 13	1s22	4 37	15 13	0 22	9 35	0 18	21 34	0 42	3 40	1 33	8 19	2 41	22 54	0 21	20 30
T 6	5 50	7 0	4 59	15 10	0 11	10 5	0 22	21 38	0 41	3 37	1 33	8 18	2 41	22 54	0 21	20 29
W 7	5 27	12 11	5 5	15 5	0s 0	10 34	0 26	21 43	0 40	3 35	1 33	8 17	2 41	22 54	0 21	20 29
T 8	5 4	16 43	4 55	14 59	0 11	11 3	0 30	21 48	0 39	3 32	1 33	8 16	2 42	22 53	0 21	20 29
F 9	4 40	20 26	4 32	14 51	0 21	11 32	0 34	21 52	0 38	3 30	1 33	8 14	2 42	22 53	0 21	20 28
S 10	4 17	23 10	3 56	14 42	0 31	12 0	0 38	21 56	0 38	3 27	1 33	8 13	2 42	22 53	0 21	20 28
S 11	3 53	24 49	3 11	14 31	0 41	12 29	0 42	22 0	0 37	3 24	1 34	8 12	2 42	22 53	0 21	20 28
M 12	3 30	25 21	2 18	14 19	0 50	12 57	0 46	22 4	0 36	3 22	1 34	8 10	2 42	22 53	0 21	20 28
T 13	3 6	24 43	1 19	14 5	0 59	13 24	0 50	22 8	0 35	3 19	1 34	8 9	2 43	22 52	0 21	20 27
W 14	2 42	22 58	0 17	13 50	1 7	13 52	0 54	22 12	0 34	3 16	1 34	8 8	2 43	22 52	0 21	20 27
T 15	2 19	20 10	0n48	13 33	1 15	14 19	0 58	22 16	0 33	3 13	1 34	8 6	2 43	22 52	0 21	20 27
F 16	1 55	16 26	1 49	13 15	1 22	14 46	1 2	22 20	0 32	3 10	1 34	8 5	2 43	22 52	0 22	20 27
S 17	1 31	11 53	2 50	12 56	1 29	15 12	1 6	22 23	0 31	3 7	1 34	8 4	2 43	22 52	0 22	20 26
S 18	1 8	6 43	3 41	12 35	1 36	15 38	1 10	22 27	0 30	3 4	1 34	8 2	2 44	22 51	0 22	20 26
M 19	0 44	1 8	4 23	12 13	1 42	16 4	1 14	22 30	0 28	3 2	1 34	8 1	2 44	22 51	0 22	20 26
T 20	0 20	4n38	4 50	11 49	1 48	16 29	1 18	22 34	0 27	2 59	1 35	7 59	2 44	22 51	0 22	20 26
W 21	0n 4	10 18	5 1	11 25	1 53	16 54	1 22	22 37	0 26	2 56	1 35	7 58	2 44	22 51	0 22	20 25
T 22	0 27	15 31	4 54	10 59	1 58	17 19	1 26	22 40	0 25	2 53	1 35	7 56	2 44	22 51	0 22	20 25
F 23	0 51	19 55	4 29	10 31	2 3	17 43	1 30	22 43	0 24	2 50	1 35	7 55	2 44	22 51	0 22	20 25
S 24	1 15	23 9	3 47	10 3	2 7	18 7	1 34	22 46	0 23	2 47	1 35	7 53	2 44	22 50	0 22	20 25
S 25	1 38	24 56	2 51	9 33	2 10	18 30	1 38	22 49	0 21	2 44	1 35	7 52	2 45	22 50	0 22	20 24
M 26	2 2	25 5	1 45	9 2	2 13	18 53	1 42	22 52	0 20	2 40	1 35	7 50	2 45	22 50	0 22	20 24
T 27	2 26	23 37	0 32	8 30	2 16	19 16	1 46	22 54	0 19	2 37	1 35	7 49	2 45	22 50	0 22	20 24
W 28	2 49	20 41	0s42	7 57	2 18	19 38	1 50	22 57	0 17	2 34	1 35	7 47	2 45	22 50	0 22	20 24
T 29	3 13	16 36	1 52	7 22	2 20	20 0	1 54	23 0	0 16	2 31	1 35	7 45	2 45	22 50	0 22	20 24
F 30	3 36	11 39	2 56	6 47	2 21	20 21	1 58	23 2	0 15	2 28	1 35	7 44	2 45	22 50	0 22	20 23
S 31	3n59	6n12	3s49	6s10	2s22	20n41	2n 2	23s 5	0n13	2s25	1n35	7s42	2n45	22s50	0s22	20s23

Julian Day Number = 2509677.5, Delta T = 128.17 sec
 Ecliptic obliquity = 23°25'10, Nutation = 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°57'52, Lahiri = 26°04'52

ASTRODIENST EPHEMERIS for the year 2159
geocentric

APRIL 2159

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 36 40	11° 3' 58"	18° 14'	21° 32'	24° 58'	24° 50'	9° 40'	26° 35'	15° 59'	25° 52'	29° 27'	15° 17'	15° 5'	23° 2'	25° 23'	S 1
M 2	12 40 36	12° 3' 15"	1° 30'	23° 11'	26° 4'	25° 14'	9° 32'	26° 30'	16° 0'	25° 52'	29° 27'	15° 5'	15° 1'	23° 9'	25° 27'	M 2
T 3	12 44 33	13° 2' 30"	14° 33'	24° 50'	27° 10'	25° 39'	9° 25'	26° 26'	16° 1'	25° 53'	29° 28'	14° 52'	14° 58'	23° 15'	25° 30'	T 3
W 4	12 48 29	14° 1' 43"	27° 21'	26° 32'	28° 16'	26° 3'	9° 17'	26° 22'	16° 2'	25° 54'	29° 28'	14° 38'	14° 55'	23° 22'	25° 34'	W 4
T 5	12 52 26	15° 0' 53"	9° 54'	28° 14'	29° 21'	26° 26'	9° 9'	26° 17'	16° 3'	25° 55'	29° 28'	14° 26'	14° 52'	23° 28'	25° 37'	T 5
F 6	12 56 23	16° 0' 02"	22° 13'	29° 58'	0° 11' 27"	26° 50'	9° 2'	26° 13'	16° 3'	25° 56'	29° 29'	14° 16'	14° 49'	23° 35'	25° 40'	F 6
S 7	13 0 19	16° 59' 10"	4° 18'	1° 44'	1° 32'	27° 13'	8° 54'	26° 8'	16° 4'	25° 56'	29° 29'	14° 8'	14° 46'	23° 42'	25° 43'	S 7
S 8	13 4 16	17° 58' 15"	16° 14'	3° 30'	2° 36'	27° 35'	8° 46'	26° 4'	16° 5'	25° 57'	29° 30'	14° 3'	14° 42'	23° 48'	25° 47'	S 8
M 9	13 8 12	18° 57' 19"	28° 3'	5° 19'	3° 41'	27° 58'	8° 39'	25° 59'	16° 5'	25° 58'	29° 31'	14° 1'	14° 39'	23° 55'	25° 50'	M 9
T 10	13 12 9	19° 56' 20"	9° 51'	7° 8'	4° 45'	28° 20'	8° 31'	25° 55'	16° 6'	25° 58'	29° 31'	14° 0'	14° 36'	24° 2'	25° 53'	T 10
W 11	13 16 5	20° 55' 20"	21° 43'	9° 0'	5° 49'	28° 42'	8° 24'	25° 50'	16° 7'	25° 59'	29° 32'	14° 0'	14° 33'	24° 8'	25° 56'	W 11
T 12	13 20 2	21° 54' 19"	3° 45'	10° 52'	6° 53'	29° 3'	8° 16'	25° 45'	16° 7'	25° 59'	29° 32'	13° 59'	14° 30'	24° 15'	25° 59'	T 12
F 13	13 23 58	22° 53' 15"	16° 2'	12° 46'	7° 57'	29° 24'	8° 9'	25° 41'	16° 7'	26° 0'	29° 33'	13° 58'	14° 27'	24° 22'	26° 2'	F 13
S 14	13 27 55	23° 52' 10"	28° 38'	14° 42'	9° 0'	29° 45'	8° 2'	25° 36'	16° 8'	26° 0'	29° 34'	13° 53'	14° 23'	24° 28'	26° 5'	S 14
S 15	13 31 52	24° 51' 03"	11° 38'	16° 39'	10° 3'	0° 5'	7° 55'	25° 32'	16° 8'	26° 1'	29° 34'	13° 47'	14° 20'	24° 35'	26° 8'	S 15
M 16	13 35 48	25° 49' 54"	25° 3'	18° 37'	11° 5'	0° 25'	7° 48'	25° 27'	16° 8'	26° 1'	29° 35'	13° 38'	14° 17'	24° 42'	26° 10'	M 16
T 17	13 39 45	26° 48' 43"	8° 54'	20° 37'	12° 7'	0° 44'	7° 41'	25° 22'	16° 9'	26° 2'	29° 36'	13° 27'	14° 14'	24° 48'	26° 13'	T 17
W 18	13 43 41	27° 47' 30"	23° 7'	22° 39'	13° 9'	1° 3'	7° 34'	25° 18'	16° 9'	26° 2'	29° 37'	13° 15'	14° 11'	24° 55'	26° 16'	W 18
T 19	13 47 38	28° 46' 16"	7° 37'	24° 41'	14° 11'	1° 22'	7° 27'	25° 13'	16° 9'	26° 2'	29° 37'	13° 4'	14° 7'	25° 2'	26° 18'	T 19
F 20	13 51 34	29° 44' 59"	22° 17'	26° 45'	15° 12'	1° 40'	7° 20'	25° 8'	16° 9'	26° 3'	29° 38'	12° 55'	14° 4'	25° 8'	26° 21'	F 20
S 21	13 55 31	0° 43' 41"	6° 59'	28° 50'	16° 13'	1° 58'	7° 13'	25° 4'	16° 9'	26° 3'	29° 39'	12° 48'	14° 1'	25° 15'	26° 24'	S 21
S 22	13 59 27	1° 42' 20"	21° 36'	0° 55'	17° 13'	2° 15'	7° 7'	24° 59'	16° 9'	26° 3'	29° 40'	12° 44'	13° 58'	25° 22'	26° 26'	S 22
M 23	14 3 24	2° 40' 57"	6° 4'	3° 2'	18° 14'	2° 32'	7° 0'	24° 55'	16° 9'	26° 3'	29° 41'	12° 43'	13° 55'	25° 28'	26° 28'	M 23
T 24	14 7 21	3° 39' 32"	20° 18'	5° 10'	19° 13'	2° 48'	6° 54'	24° 50'	16° 9'	26° 3'	29° 42'	12° 43'	13° 52'	25° 35'	26° 31'	T 24
W 25	14 11 17	4° 38' 05"	4° 18'	7° 17'	20° 13'	3° 4'	6° 48'	24° 46'	16° 8'	26° 4'	29° 42'	12° 43'	13° 48'	25° 42'	26° 33'	W 25
T 26	14 15 14	5° 36' 36"	18° 4'	9° 26'	21° 11'	3° 20'	6° 42'	24° 41'	16° 8'	26° 4'	29° 43'	12° 42'	13° 45'	25° 48'	26° 35'	T 26
F 27	14 19 10	6° 35' 04"	1° 35'	11° 34'	22° 10'	3° 35'	6° 36'	24° 37'	16° 8'	26° 4'	29° 44'	12° 40'	13° 42'	25° 55'	26° 38'	F 27
S 28	14 23 7	7° 33' 30"	14° 54'	13° 41'	23° 8'	3° 49'	6° 30'	24° 32'	16° 7'	26° 4'	29° 45'	12° 35'	13° 39'	26° 1'	26° 40'	S 28
S 29	14 27 3	8° 31' 54"	28° 0'	15° 49'	24° 5'	4° 3'	6° 24'	24° 28'	16° 7'	26° 4'	29° 46'	12° 27'	13° 36'	26° 8'	26° 42'	S 29
M 30	14 31 0	9° 30' 16"	10° 54'	17° 55'	25° 11' 2"	4° 17'	6° 19'	24° 23'	16° 7'	26° 4'	29° 47'	12° 18'	13° 33'	26° 15'	26° 44'	M 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	4n23	0n32	4s28	5s32	2s23	21n 2	2n 6	23s 7	0n12	2s22	1n35	7s40	2n45	22s50	0s22	20s23
M 2	4 46	5s 4	4 52	4 53	2 23	21 21	2 10	23 10	0 10	2 19	1 35	7 39	2 45	22 49	0 22	20 23
T 3	5 9	10 20	5 0	4 13	2 22	21 41	2 14	23 12	0 9	2 16	1 35	7 37	2 45	22 49	0 22	20 23
W 4	5 32	15 4	4 53	3 32	2 21	21 59	2 17	23 14	0 7	2 13	1 35	7 35	2 46	22 49	0 22	20 23
T 5	5 55	19 4	4 31	2 50	2 19	22 17	2 21	23 17	0 6	2 10	1 35	7 34	2 46	22 49	0 22	20 22
F 6	6 17	22 8	3 58	2 7	2 17	22 35	2 25	23 19	0 4	2 7	1 35	7 32	2 46	22 49	0 22	20 22
S 7	6 40	24 9	3 14	1 23	2 15	22 52	2 28	23 21	0 2	2 4	1 35	7 30	2 46	22 49	0 22	20 22
S 8	7 3	25 3	2 21	0 38	2 12	23 9	2 32	23 23	0 1	2 1	1 35	7 29	2 46	22 49	0 22	20 22
M 9	7 25	24 48	1 23	0n 9	2 8	23 25	2 36	23 25	0s 1	1 58	1 35	7 27	2 46	22 49	0 22	20 22
T 10	7 47	23 25	0 22	0 56	2 4	23 41	2 39	23 27	0 3	1 55	1 35	7 25	2 46	22 49	0 22	20 22
W 11	8 10	21 0	0n41	1 43	2 0	0 25	2 42	23 29	0 4	1 53	1 35	7 24	2 46	22 49	0 22	20 22
T 12	8 32	17 38	1 43	2 32	1 55	24 10	2 46	23 31	0 6	1 50	1 35	7 22	2 46	22 49	0 22	20 22
F 13	8 54	13 27	2 41	3 22	1 49	24 24	2 49	23 33	0 8	1 47	1 35	7 20	2 46	22 49	0 22	20 21
S 14	9 15	8 36	3 33	4 12	1 43	24 37	2 52	23 35	0 10	1 44	1 35	7 19	2 46	22 49	0 22	20 21
S 15	9 37	3 15	4 16	5 3	1 37	24 50	2 55	23 37	0 12	1 41	1 34	7 17	2 46	22 49	0 22	20 21
M 16	9 58	2n25	4 46	5 54	1 30	25 2	2 59	23 39	0 14	1 39	1 34	7 15	2 46	22 49	0 22	20 21
T 17	10 20	8 8	5 0	6 46	1 22	25 14	3 2	23 41	0 16	1 36	1 34	7 14	2 46	22 49	0 22	20 21
W 18	10 41	13 34	4 57	7 39	1 14	25 25	3 4	23 43	0 18	1 33	1 34	7 12	2 46	22 49	0 22	20 21
T 19	11 2	18 22	4 35	8 32	1 6	25 35	3 7	23 45	0 20	1 31	1 34	7 10	2 46	22 49	0 22	20 21
F 20	11 22	22 5	3 54	9 25	0 57	25 45	3 10	23 46	0 22	1 28	1 34	7 9	2 46	22 49	0 22	20 21
S 21	11 43	24 22	2 58	10 18	0 48	25 54	3 13	23 48	0 24	1 26	1 34	7 7	2 46	22 49	0 22	20 21
S 22	12 3	24 59	1 50	11 11	0 38	26 3	3 15	23 50	0 26	1 23	1 34	7 5	2 46	22 49	0 23	20 21
M 23	12 24	23 52	0 35	12 4	0 29	26 11	3 18	23 52	0 29	1 21	1 34	7 4	2 46	22 49	0 23	20 21
T 24	12 44	21 13	0s40	12 57	0 18	26 18	3 20	23 54	0 31	1 18	1 33	7 2	2 46	22 49	0 23	20 21
W 25	13 3	17 21	1 52	13 49	0 8	26 25	3 22	23 56	0 33	1 16	1 33	7 1	2 46	22 49	0 23	20 21
T 26	13 23	12 36	2 56	14 40	0n 3	26 31	3 24	23 58	0 36	1 14	1 33	6 59	2 46	22 49	0 23	20 21
F 27	13 42	7 19	3 50	15 30	0 13	26 37	3 26	24 0	0 38	1 12	1 33	6 57	2 46	22 49	0 23	20 21
S 28	14 1	1 48	4 29	16 19	0 24	26 42	3 28	24 2	0 40	1 10	1 33	6 56	2 46	22 49	0 23	20 21
S 29	14 20	3s42	4 54	17 7	0 35	26 47	3 30	24 4	0 43	1 7	1 33	6 54	2 46	22 49	0 23	20 21
M 30	14n39	8s58	5s 3	17n53	0n46	26n51	3n32	24s 6	0s45	1s 5	1n32	6s53	2n45	22s49	0s23	20s21

Julian Day Number = 2509708.5, Delta T = 128.23 sec
Ecliptic obliquity = 23°25'10", Nutation = 0°00'16", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°57'56", Lahiri = 26°04'56"

ASTRODIENST EPHEMERIS for the year 2159
geocentric

JUNE 2159

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 37 10	10 ^{II} 24°10	9 [♂] 20	28 ^{II} 1	18 [♂] 51	5°R46	4°D47	22°R32	15°R28	25°R46	0 [♂] 25	10°R17	11 [♂] 51	29 [♂] 48	27°R17	F 1
S 2	16 41 6	11°21'42	21°12	28° 7	19°17	5 [♂] 37	4 [♂] 47	22 [♂] 30	15 [♂] 26	25 [♂] 45	0°27	10 [♂] 15	11°48	29°54	27°16	S 2
S 3	16 45 3	12°19'13	3 [♂] 1	28°R 8	19°41	5°27	4°48	22°28	15°25	25°44	0°28	10°13	11°45	0 [♂] 1	27°16	S 3
M 4	16 48 59	13°16'43	14°48	28° 5	20° 4	5°17	4°48	22°26	15°23	25°43	0°29	10°D13	11°41	0° 8	27°16	M 4
T 5	16 52 56	14°14'13	26°37	27°57	20°24	5° 6	4°49	22°24	15°21	25°42	0°31	10°14	11°38	0°14	27°16	T 5
W 6	16 56 52	15°11'41	8 [♂] 31	27°45	20°43	4°54	4°49	22°22	15°19	25°41	0°32	10°15	11°35	0°21	27°16	W 6
T 7	17 0 49	16° 9'08	20°34	27°30	21° 0	4°41	4°50	22°20	15°17	25°39	0°34	10°17	11°32	0°27	27°15	T 7
F 8	17 4 46	17° 6'35	2 [♂] 50	27°10	21°16	4°28	4°51	22°18	15°15	25°38	0°35	10°18	11°29	0°34	27°15	F 8
S 9	17 8 42	18° 4'01	15°24	26°47	21°29	4°14	4°53	22°17	15°13	25°37	0°36	10°R19	11°25	0°41	27°15	S 9
S 10	17 12 39	19° 1'26	28°19	26°21	21°40	4° 0	4°54	22°15	15°11	25°36	0°38	10°19	11°22	0°47	27°14	S 10
M 11	17 16 35	19°58'51	11 [♂] 40	25°52	21°49	3°45	4°56	22°14	15° 8	25°35	0°39	10°18	11°19	0°54	27°13	M 11
T 12	17 20 32	20°56'15	25°28	25°22	21°55	3°29	4°58	22°12	15° 6	25°33	0°41	10°16	11°16	1° 1	27°13	T 12
W 13	17 24 28	21°53'39	9 [♂] 43	24°50	22° 0	3°13	5° 0	22°11	15° 4	25°32	0°42	10°13	11°13	1° 7	27°12	W 13
T 14	17 28 25	22°51'02	24°22	24°16	22°R 2	2°56	5° 2	22°10	15° 2	25°31	0°43	10°11	11°10	1°14	27°11	T 14
F 15	17 32 21	23°48'25	9 ^{II} 21	23°43	22° 2	2°39	5° 4	22° 9	15° 0	25°30	0°45	10° 9	11° 6	1°21	27°10	F 15
S 16	17 36 18	24°45'47	24°30	23° 9	22° 0	2°22	5° 7	22° 8	14°58	25°28	0°46	10° 8	11° 3	1°27	27°10	S 16
S 17	17 40 15	25°43'08	9 [♂] 40	22°36	21°55	2° 4	5° 9	22° 7	14°55	25°27	0°48	10°D 8	11° 0	1°34	27° 9	S 17
M 18	17 44 11	26°40'29	24°43	22° 5	21°48	1°46	5°12	22° 6	14°53	25°26	0°49	10° 8	10°57	1°41	27° 8	M 18
T 19	17 48 8	27°37'49	9 [♂] 30	21°35	21°38	1°28	5°15	22° 6	14°51	25°24	0°51	10° 9	10°54	1°47	27° 6	T 19
W 20	17 52 4	28°35'08	23°56	21° 7	21°26	1° 9	5°18	22° 5	14°49	25°23	0°52	10°10	10°51	1°54	27° 5	W 20
T 21	17 56 1	29°32'26	7 [♂] 56	20°43	21°12	0°50	5°22	22° 5	14°46	25°21	0°53	10°11	10°47	2° 1	27° 4	T 21
F 22	17 59 57	0 [♂] 29'43	21°32	20°21	20°55	0°31	5°25	22° 4	14°44	25°20	0°55	10°11	10°44	2° 7	27° 3	F 22
S 23	18 3 54	1°26'59	4 [♂] 43	20° 3	20°36	0°12	5°29	22° 4	14°42	25°19	0°56	10°R11	10°41	2°14	27° 2	S 23
S 24	18 7 50	2°24'15	17°33	19°49	20°15	29 [♂] 53	5°33	22° 4	14°39	25°17	0°58	10°11	10°38	2°20	27° 0	S 24
M 25	18 11 47	3°21'30	0 [♂] 4	19°39	19°51	29°34	5°37	22°D 4	14°37	25°16	0°59	10°10	10°35	2°27	26°59	M 25
T 26	18 15 44	4°18'44	12° 21	19°33	19°25	29°15	5°41	22° 4	14°35	25°14	1° 1	10°10	10°31	2°34	26°57	T 26
W 27	18 19 40	5°15'58	24°25	19°D32	18°58	28°56	5°45	22° 4	14°32	25°13	1° 2	10° 9	10°28	2°40	26°56	W 27
T 28	18 23 37	6°13'11	6 [♂] 22	19°35	18°28	28°37	5°50	22° 4	14°30	25°11	1° 3	10° 8	10°25	2°47	26°54	T 28
F 29	18 27 33	7°10'24	18°13	19°44	17°57	28°18	5°55	22° 5	14°27	25°10	1° 5	10° 8	10°22	2°54	26°52	F 29
S 30	18 31 30	8 [♂] 7'36	0 [♂] 1	19 ^{II} 57	17 [♂] 24	28 [♂] 0	5 [♂] 59	22 [♂] 5	14 [♂] 25	25 [♂] 8	1 [♂] 6	10 [♂] 8	10 [♂] 19	3 [♂] 0	26 [♂] 51	S 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
F 1	21n59	24s29	2s41	23n54	0n29	24n51	2n47	25s50	2s33	0s36	1n25	6s17	2n40	22s55	0s24	20s24
S 2	22 7	24 50	1 43	23 39	0 14	24 42	2 42	25 55	2 37	0 36	1 25	6 16	2 40	22 55	0 24	20 24
S 3	22 15	24 3	0 40	23 23	0s 1	24 33	2 36	25 59	2 41	0 36	1 25	6 15	2 40	22 55	0 24	20 24
M 4	22 22	22 11	0n25	23 7	0 17	24 23	2 30	26 4	2 45	0 37	1 25	6 15	2 40	22 55	0 24	20 24
T 5	22 29	19 21	1 29	22 51	0 34	24 14	2 23	26 8	2 49	0 37	1 24	6 14	2 40	22 56	0 24	20 24
W 6	22 36	15 43	2 30	22 34	0 50	24 4	2 16	26 12	2 53	0 38	1 24	6 14	2 39	22 56	0 24	20 25
T 7	22 42	11 23	3 24	22 16	1 8	23 54	2 9	26 17	2 57	0 38	1 24	6 13	2 39	22 56	0 24	20 25
F 8	22 48	6 33	4 11	21 58	1 25	23 44	2 1	26 21	3 1	0 39	1 24	6 13	2 39	22 56	0 24	20 25
S 9	22 53	1 21	4 47	21 41	1 42	23 34	1 53	26 26	3 5	0 40	1 23	6 13	2 39	22 57	0 24	20 25
S 10	22 58	4n 3	5 9	21 23	2 0	23 23	1 44	26 30	3 9	0 40	1 23	6 12	2 38	22 57	0 24	20 25
M 11	23 2	9 27	5 16	21 5	2 16	23 13	1 35	26 35	3 13	0 41	1 23	6 12	2 38	22 57	0 24	20 26
T 12	23 7	14 34	5 5	20 47	2 33	23 3	1 26	26 39	3 17	0 42	1 23	6 12	2 38	22 57	0 24	20 26
W 13	23 10	19 3	4 35	20 30	2 49	22 53	1 16	26 43	3 21	0 43	1 22	6 11	2 38	22 58	0 24	20 26
T 14	23 14	22 31	3 47	20 14	3 4	22 42	1 6	26 47	3 24	0 44	1 22	6 11	2 37	22 58	0 24	20 26
F 15	23 16	24 30	2 42	19 58	3 18	22 32	0 55	26 52	3 28	0 45	1 22	6 11	2 37	22 58	0 24	20 27
S 16	23 19	24 44	1 26	19 44	3 31	22 21	0 44	26 56	3 32	0 47	1 22	6 11	2 37	22 58	0 24	20 27
S 17	23 21	23 7	0 3	19 30	3 43	22 11	0 33	27 0	3 36	0 48	1 21	6 11	2 37	22 59	0 24	20 27
M 18	23 23	19 51	1s20	19 17	3 54	22 0	0 21	27 4	3 39	0 49	1 21	6 11	2 36	22 59	0 24	20 27
T 19	23 24	15 21	2 36	19 6	4 4	21 50	0 9	27 7	3 43	0 51	1 21	6 11	2 36	22 59	0 24	20 28
W 20	23 25	10 4	3 40	18 56	4 12	21 40	0s 3	27 11	3 46	0 52	1 21	6 11	2 36	23 0	0 24	20 28
T 21	23 25	4 26	4 29	18 48	4 19	21 29	0 16	27 15	3 50	0 54	1 20	6 11	2 36	23 0	0 24	20 28
F 22	23 25	1s15	5 1	18 41	4 24	21 19	0 29	27 18	3 53	0 55	1 20	6 11	2 35	23 0	0 24	20 28
S 23	23 25	6 42	5 16	18 36	4 28	21 9	0 42	27 21	3 56	0 57	1 20	6 11	2 35	23 0	0 24	20 29
S 24	23 24	11 44	5 15	18 32	4 30	20 58	0 56	27 24	3 59	0 59	1 20	6 11	2 35	23 1	0 24	20 29
M 25	23 23	16 8	4 59	18 30	4 31	20 48	1 10	27 27	4 2	1 1	1 19	6 12	2 35	23 1	0 24	20 29
T 26	23 21	19 47	4 29	18 30	4 31	20 38	1 24	27 30	4 5	1 3	1 19	6 12	2 34	23 1	0 24	20 29
W 27	23 19	22 32	3 48	18 31	4 30	20 28	1 38	27 33	4 8	1 5	1 19	6 12	2 34	23 1	0 24	20 30
T 28	23 16	24 15	2 57	18 34	4 27	20 18	1 52	27 35	4 11	1 7	1 19	6 12	2 34	23 2	0 24	20 30
F 29	23 13	24 52	1 59	18 39	4 23	20 8	2 6	27 38	4 13	1 9	1 19	6 13	2 34	23 2	0 24	20 30
S 30	23n10	24s21	0s56	18n45	4s18	19n58	2s21	27s40	4s16	1s11	1n18	6s13	2n33	23s 2	0s24	20s30

Julian Day Number = 2509769.5, Delta T = 128.35 sec
Ecliptic obliquity = 23°25'08, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°58'04, Lahiri = 26°05'05

ASTRODIENST EPHEMERIS for the year 2159

geocentric

JULY 2159

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 35 26	9 ⁵⁵ 4'48	11 ³⁸ 49	20 ¹¹ 14	16 ⁰ R50	27 ⁰ R42	6 ⁵⁴ 4	22 ⁵⁴ 6	14 ⁰ R23	25 ⁰ R 7	1 ⁵⁵ 8	10 ⁰ D 8	10 ⁰ R16	3 ³⁸ 7	26 ⁰ R49	S 1
M 2	18 39 23	10 ⁰ 2'00	23 ⁰ 39	20 ⁰ 37	16 ⁰ R15	27 ⁰ R24	6 ⁰ 9	22 ⁰ 6	14 ⁰ R20	25 ⁰ R 5	1 ⁰ 9	10 ⁰ R 8	10 ⁰ 12	3 ⁰ 14	26 ⁰ R47	M 2
T 3	18 43 20	10 ⁰ 59'12	5 ⁵⁵ 33	21 ⁰ 4	15 ⁰ 39	27 ⁰ 6	6 ⁰ 15	22 ⁰ 7	14 ⁰ 18	25 ⁰ 4	1 ⁰ 11	10 ⁰ R 8	10 ⁰ 9	3 ⁰ 20	26 ⁰ 45	T 3
W 4	18 47 16	11 ⁰ 56'24	17 ⁰ 34	21 ⁰ 36	15 ⁰ 2	26 ⁰ 49	6 ⁰ 20	22 ⁰ 8	14 ⁰ 15	25 ⁰ 2	1 ⁰ 12	10 ⁰ 8	10 ⁰ 6	3 ⁰ 27	26 ⁰ 43	W 4
T 5	18 51 13	12 ⁰ 53'35	29 ⁰ 44	22 ⁰ 13	14 ⁰ 25	26 ⁰ 32	6 ⁰ 26	22 ⁰ 9	14 ⁰ 13	25 ⁰ 0	1 ⁰ 13	10 ⁰ 7	10 ⁰ 3	3 ⁰ 34	26 ⁰ 41	T 5
F 6	18 55 9	13 ⁰ 50'47	12 ⁰ 36	22 ⁰ 55	13 ⁰ 47	26 ⁰ 16	6 ⁰ 31	22 ⁰ 10	14 ⁰ 11	24 ⁰ 59	1 ⁰ 15	10 ⁰ 7	10 ⁰ 0	3 ⁰ 40	26 ⁰ 39	F 6
S 7	18 59 6	14 ⁰ 47'59	24 ⁰ 43	23 ⁰ 41	13 ⁰ 9	26 ⁰ 0	6 ⁰ 37	22 ⁰ 11	14 ⁰ 8	24 ⁰ 57	1 ⁰ 16	10 ⁰ 7	9 ⁰ 57	3 ⁰ 47	26 ⁰ 37	S 7
S 8	19 3 2	15 ⁰ 45'11	7 ⁰ 39	24 ⁰ 32	12 ⁰ 32	25 ⁰ 45	6 ⁰ 43	22 ⁰ 12	14 ⁰ 6	24 ⁰ 56	1 ⁰ 18	10 ⁰ 6	9 ⁰ 53	3 ⁰ 54	26 ⁰ 35	S 8
M 9	19 6 59	16 ⁰ 42'23	20 ⁰ 55	25 ⁰ 27	11 ⁰ 55	25 ⁰ 30	6 ⁰ 49	22 ⁰ 13	14 ⁰ 3	24 ⁰ 54	1 ⁰ 19	10 ⁰ D 6	9 ⁰ 50	4 ⁰ 0	26 ⁰ 33	M 9
T 10	19 10 55	17 ⁰ 39'36	4 ⁰ 35	26 ⁰ 27	11 ⁰ 19	25 ⁰ 16	6 ⁰ 56	22 ⁰ 15	14 ⁰ 1	24 ⁰ 52	1 ⁰ 20	10 ⁰ 7	9 ⁰ 47	4 ⁰ 7	26 ⁰ 31	T 10
W11	19 14 52	18 ⁰ 36'49	18 ⁰ 39	27 ⁰ 31	10 ⁰ 44	25 ⁰ 2	7 ⁰ 2	22 ⁰ 16	13 ⁰ 58	24 ⁰ 51	1 ⁰ 22	10 ⁰ 7	9 ⁰ 44	4 ⁰ 13	26 ⁰ 29	W11
T 12	19 18 49	19 ⁰ 34'03	3 ⁰ 11	28 ⁰ 40	10 ⁰ 10	24 ⁰ 49	7 ⁰ 8	22 ⁰ 18	13 ⁰ 56	24 ⁰ 49	1 ⁰ 23	10 ⁰ 8	9 ⁰ 41	4 ⁰ 20	26 ⁰ 26	T 12
F 13	19 22 45	20 ⁰ 31'17	17 ⁰ 52	29 ⁰ 53	9 ⁰ 38	24 ⁰ 37	7 ⁰ 15	22 ⁰ 20	13 ⁰ 54	24 ⁰ 48	1 ⁰ 25	10 ⁰ 9	9 ⁰ 37	4 ⁰ 27	26 ⁰ 24	F 13
S 14	19 26 42	21 ⁰ 28'32	2 ⁰ 53	1 ⁰ 10	9 ⁰ 7	24 ⁰ 25	7 ⁰ 22	22 ⁰ 22	13 ⁰ 51	24 ⁰ 46	1 ⁰ 26	10 ⁰ R 9	9 ⁰ 34	4 ⁰ 33	26 ⁰ 22	S 14
S 15	19 30 38	22 ⁰ 25'46	18 ⁰ 0	2 ⁰ 31	8 ⁰ 37	24 ⁰ 15	7 ⁰ 29	22 ⁰ 23	13 ⁰ 49	24 ⁰ 44	1 ⁰ 27	10 ⁰ 9	9 ⁰ 31	4 ⁰ 40	26 ⁰ 19	S 15
M16	19 34 35	23 ⁰ 23'01	3 ⁰ 5	3 ⁰ 56	8 ⁰ 10	24 ⁰ 4	7 ⁰ 36	22 ⁰ 25	13 ⁰ 46	24 ⁰ 43	1 ⁰ 29	10 ⁰ 8	9 ⁰ 28	4 ⁰ 47	26 ⁰ 17	M16
T 17	19 38 31	24 ⁰ 20'16	17 ⁰ 58	5 ⁰ 25	7 ⁰ 44	23 ⁰ 55	7 ⁰ 43	22 ⁰ 28	13 ⁰ 44	24 ⁰ 41	1 ⁰ 30	10 ⁰ 7	9 ⁰ 25	4 ⁰ 53	26 ⁰ 14	T 17
W18	19 42 28	25 ⁰ 17'31	2 ⁰ 13	6 ⁰ 59	7 ⁰ 21	23 ⁰ 47	7 ⁰ 51	22 ⁰ 30	13 ⁰ 42	24 ⁰ 39	1 ⁰ 31	10 ⁰ 5	9 ⁰ 22	5 ⁰ 0	26 ⁰ 12	W18
T 19	19 46 24	26 ⁰ 14'47	16 ⁰ 43	8 ⁰ 36	6 ⁰ 59	23 ⁰ 39	7 ⁰ 58	22 ⁰ 32	13 ⁰ 39	24 ⁰ 38	1 ⁰ 33	10 ⁰ 3	9 ⁰ 18	5 ⁰ 7	26 ⁰ 9	T 19
F 20	19 50 21	27 ⁰ 12'02	0 ⁰ 26	10 ⁰ 16	6 ⁰ 40	23 ⁰ 32	8 ⁰ 6	22 ⁰ 34	13 ⁰ 37	24 ⁰ 36	1 ⁰ 34	10 ⁰ 2	9 ⁰ 15	5 ⁰ 13	26 ⁰ 6	F 20
S 21	19 54 18	28 ⁰ 9'18	13 ⁰ 43	12 ⁰ 1	6 ⁰ 23	23 ⁰ 26	8 ⁰ 13	22 ⁰ 37	13 ⁰ 35	24 ⁰ 35	1 ⁰ 35	10 ⁰ 0	9 ⁰ 12	5 ⁰ 20	26 ⁰ 4	S 21
S 22	19 58 14	29 ⁰ 6'33	26 ⁰ 35	13 ⁰ 48	6 ⁰ 9	23 ⁰ 21	8 ⁰ 21	22 ⁰ 39	13 ⁰ 32	24 ⁰ 33	1 ⁰ 37	10 ⁰ D 0	9 ⁰ 9	5 ⁰ 27	26 ⁰ 1	S 22
M23	20 2 11	0 ⁰ 3'49	9 ⁰ 11	15 ⁰ 39	5 ⁰ 57	23 ⁰ 17	8 ⁰ 29	22 ⁰ 42	13 ⁰ 30	24 ⁰ 31	1 ⁰ 38	10 ⁰ 0	9 ⁰ 6	5 ⁰ 33	25 ⁰ 58	M23
T 24	20 6 7	1 ⁰ 1'05	21 ⁰ 18	17 ⁰ 33	5 ⁰ 47	23 ⁰ 13	8 ⁰ 37	22 ⁰ 45	13 ⁰ 28	24 ⁰ 30	1 ⁰ 39	10 ⁰ 1	9 ⁰ 2	5 ⁰ 40	25 ⁰ 56	T 24
W25	20 10 4	1 ⁰ 58'22	3 ⁰ 18	19 ⁰ 29	5 ⁰ 39	23 ⁰ 11	8 ⁰ 45	22 ⁰ 48	13 ⁰ 25	24 ⁰ 28	1 ⁰ 40	10 ⁰ 2	8 ⁰ 59	5 ⁰ 47	25 ⁰ 53	W25
T 26	20 14 0	2 ⁰ 55'38	15 ⁰ 10	21 ⁰ 28	5 ⁰ 34	23 ⁰ 9	8 ⁰ 54	22 ⁰ 51	13 ⁰ 23	24 ⁰ 27	1 ⁰ 42	10 ⁰ 4	8 ⁰ 56	5 ⁰ 53	25 ⁰ 50	T 26
F 27	20 17 57	3 ⁰ 52'56	26 ⁰ 58	23 ⁰ 28	5 ⁰ 32	23 ⁰ 8	9 ⁰ 2	22 ⁰ 54	13 ⁰ 21	24 ⁰ 25	1 ⁰ 43	10 ⁰ 5	8 ⁰ 53	6 ⁰ 0	25 ⁰ 47	F 27
S 28	20 21 53	4 ⁰ 50'13	8 ⁰ 36	25 ⁰ 31	5 ⁰ D32	23 ⁰ D 8	9 ⁰ 11	22 ⁰ 57	13 ⁰ 19	24 ⁰ 23	1 ⁰ 44	10 ⁰ R 6	8 ⁰ 50	6 ⁰ 6	25 ⁰ 44	S 28
S 29	20 25 50	5 ⁰ 47'31	20 ⁰ 36	27 ⁰ 35	5 ⁰ 34	23 ⁰ 9	9 ⁰ 19	23 ⁰ 0	13 ⁰ 17	24 ⁰ 22	1 ⁰ 45	10 ⁰ 6	8 ⁰ 47	6 ⁰ 13	25 ⁰ 42	S 29
M30	20 29 47	6 ⁰ 44'50	2 ⁰ 32	29 ⁰ 40	5 ⁰ 38	23 ⁰ 11	9 ⁰ 28	23 ⁰ 3	13 ⁰ 14	24 ⁰ 20	1 ⁰ 47	10 ⁰ 4	8 ⁰ 43	6 ⁰ 20	25 ⁰ 39	M30
T 31	20 33 43	7 ⁰ 42'10	14 ⁰ 35	1 ⁰ 45	5 ⁰ 44	23 ⁰ 13	9 ⁰ 37	23 ⁰ 5	13 ⁰ 12	24 ⁰ 19	1 ⁰ 48	10 ⁰ R 1	8 ⁰ 40	6 ⁰ 26	25 ⁰ 36	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	decl	lat
S 1	23n 6	22s44	0n 9	18n52	4s13	19n48	2s35	27s42	4s18	1s13	1n18	6s14	2n33	23s 2	0s24	20s31	0n35	17n 6	6s19	23s 2	23s 1	24s 1	6s15	6n42					
M 2	23 2	20 8	1 14	19 0	4 6	19 38	2 49	27 44	4 20	1 15	1 18	6 14	2 33	23 3	0 24	20 31	0 35	17 6	6 19	23 2	23 2	24 0	6 16	6 42					
T 3	22 58	16 39	2 17	19 10	3 58	19 29	3 3	27 46	4 22	1 17	1 18	6 15	2 33	23 3	0 24	20 31	0 35	17 6	6 19	23 2	23 2	23 59	6 16	6 43					
W 4	22 53	12 29	3 13	19 20	3 49	19 19	3 16	27 47	4 24	1 20	1 17	6 15	2 32	23 3	0 24	20 32	0 35	17 6	6 19	23 2	23 2	23 58	6 16	6 43					
T 5	22 48	7 46	4 2	19 32	3 40	19 10	3 30	27 49	4 26	1 22	1 17	6 16	2 32	23 4	0 24	20 32	0 35	17 6	6 19	23 2	23 2	23 57	6 17	6 43					
F 6	22 42	2 42	4 41	19 44	3 30	19 1	3 42	27 50	4 28	1 25	1 17	6 16	2 32	23 4	0 24	20 32	0 35	17 6	6 19	23 2	23 3	23 56	6 17	6 44					
S 7	22 36	2n35	5 6	19 57	3 20	18 52	3 55	27 51	4 30	1 27	1 17	6 17	2 31	23 4	0 24	20 32	0 35	17 6	6 19	23 2	23 3	23 55	6 18	6 44					
S 8	22 29	7 53	5 17	20 10	3 8	18 44	4 7	27 52	4 31	1 30	1 16	6 18	2 31	23 4	0 24	20 33	0 35	17 6	6 19	23 2	23 3	23 54	6 18	6 44					
M 9	22 23	12 58	5 12	20 24	2 57	18 36	4 19	27 53	4 33	1 32	1 16	6 19	2 31	23 5	0 24	20 33	0 35	17 6	6 19	23 2	23 3	23 53	6 18	6 44					
T 10	22 15	17 34	4 49	20 38	2 45	18 28	4 30	27 54	4 34	1 35	1 16	6 19	2 31	23 5	0 24	20 33	0 35	17 6	6 19	23 2	23 4	23 52	6 19	6 45					
W11	22 8	21 20	4 9	20 51	2 32	18 20	4 40	27 55	4 35	1 38	1 16	6 20	2 30	23 5	0 24	20 34	0 35	17 6	6 18	23 2	23 4	23 51	6 19	6 45					
T 12	22 0	23 53	3 12	21 5	2 20	18 13	4 50	27 55	4 36	1 40	1 16	6 21	2 30	23 5	0 24	20 34	0 35	17 6	6 18	23 2	23 4	23 50	6 20	6 45					
F 13	21 51	24 52	2 1	21 18	2 7	18 6	4 59	27 56	4 37	1 43	1 15	6 22	2 30	23 6	0 24	20 34	0 35	17 6	6 18	23 2	23 4	23 49	6 21	6 45					
S 14	21 42	24 3	0 40	21 31	1 54	17 59	5 8	27 56	4 38	1 46	1 15	6 23	2 30	23 6	0 24	20 35	0 35	17 6	6 18	23 2	23 4	23 47	6 21	6 46					
S 15	21 33	21 29	0s43	21 43	1 40	17 53	5 16	27 56	4 39	1 49	1 15	6 24	2 29	23 6	0 24	20 35	0 35	17 6	6 18	23 2	23 5	23 46	6 22	6 46					
M16	21 24	17 27	2 4	21 55	1 27	17 48	5 23	27 56	4 40	1 52	1 15	6 25	2 29	23 6	0 24	20 35	0 35	17 6	6 18	23 2	23 5	23 45	6 22	6 46					
T 17	21 14	12 20	3 15	22 5	1 14	17 43	5 29	27 57	4 40	1 55	1 15	6 26	2 29	23 7	0 24	20 35	0 35	17 6	6 18	23 2	23 5	23 44	6 23	6 46					
W18	21 4	6 39	4 11	22 14	1 0	17 38	5 35	27 57	4 41	1 58	1 14	6 27	2 29	23 7	0 24	20 36	0 35	17 6	6 19	23 2	23 5	23 43	6 24	6 46					
T 19	20 53	0 47	4 51	22 21	0 47	17 34	5 41	27 57	4 41	2 1	1 14	6 28	2 28	23 7	0 24	20 36	0 35	17 6	6 19	23 2	23 6	23 42	6 24	6 47					
F 20	20 42	4s57	5 12	22 27	0 34	17 30	5 45	27 56	4 41	2 5	1 14	6 29	2 28	23 7	0 24	20 36	0 35	17 6	6 19	23 2	23 6	23 41	6 25	6 47					
S 21	20 31	10 15	5 16	22 31	0 21	17 27	5 50	27 56	4 41	2 8	1 14	6 30	2 28	23 8	0 24	20 37	0 35	17 6	6 19	23 3	23 6	23 40	6 26	6 47					
S 22	20 19	14 57	5 3	22 34	0 9	17 24	5 53	27 56	4 41	2 11	1 14	6 31	2 28	23 8	0 24	20 37	0 35	17 6	6 19	23 3	23 6	23 38	6 26	6 47					
M23	20 7	18 52	4 37	22 33	0n 3	17 22	5 56	27 56	4 41	2 14	1 13	6 32	2 27	23 8	0 24	20 37	0 35	17 6	6 19	23 3	23 6	23 37	6 27	6 47					
T 24	19 55	21 54	3 58	22 31	0 15	17 20	5 58	27 55	4 41	2 18	1 13	6 34	2 27	23 8	0 24	20 38	0 35	17 6	6 19	23 2	23 7	23 36	6 28	6 47					
W25	19 42	23 54	3 9	22 26	0 26	17 18	6 0	27 55	4 41	2 21	1 13	6 35	2 27	23 9	0 24	20 38	0 35	17 6	6 19	23 2	23 7	23 35	6 29	6 48					
T 26	19 29	24 48	2 13	22 19	0 37	17 17	6 1	27 55	4 40	2 24	1 13	6 36	2 27	23 9	0 24	20 38	0 35	17 6	6 19	23 2	23 7	23 34	6 30	6 48					
F 27	19 16	24 35	1 12	22 9	0 47	17 16	6 2	27 54	4 40	2 28	1 13	6 38	2 26	23 9	0 24	20 38	0 35	17 6	6 19	23 2	23 7	23 33	6 30	6 48					
S 28	19 2	23 15	0 7	21 56	0 56	17 16	6 2	27 54	4 40	2 31	1 12	6 39	2 26	23 9	0 24	20 39	0 35	17 6	6 19	23 2	23 8	23 31	6 31	6 48					
S 29	18 48	20 54	0n58	21 41	1 4	17 16	6 2	27 53	4 39	2 35	1 12	6 40	2 26	23 9	0 24	20 39	0 35	17 6	6 19	23 2	23 8	23 30	6 32	6 48					
M30	18 34	17 58	2 0	21 23	1 12	17 16	6 2	27 53	4 39	2 39	1 12	6 42	2 26	23 10	0 24	20 39	0 35	17 6	6 19	23 2	23 8	23 29	6 33	6 48					
T 31	18n20	13s36	2n58	21n 2	1n19	17n17	6s 1	27s52	4s38	2s42	1n12	6s43	2n25	23s10	0s24	20s40	0n35	17n 6	6s19	23s 2	23s 8	23s28	6s34	6n48					

ASTRODIENST EPHEMERIS for the year 2159
geocentric

AUGUST 2159

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 37 40	8♂39'30	26♂47	3♂52	5♂53	23♂16	9♂46	23♂10	13♂R10	24♂R17	1♂49	9♂R57	8♂37	6♂33	25♂R33	W 1
T 2	20 41 36	9°36'51	9♂10	5°58	6° 4	23°20	9°55	23°13	13♂8	24♂16	1°50	9♂52	8°34	6°40	25♂30	T 2
F 3	20 45 33	10°34'12	21°45	8° 4	6°17	23°25	10° 4	23°17	13° 6	24°14	1°51	9°47	8°31	6°46	25°27	F 3
S 4	20 49 29	11°31'35	4♂34	10°10	6°31	23°31	10°13	23°21	13° 4	24°12	1°53	9°43	8°28	6°53	25°24	S 4
S 5	20 53 26	12°28'59	17°37	12°15	6°48	23°37	10°23	23°25	13° 2	24°11	1°54	9°39	8°24	7° 0	25°21	S 5
M 6	20 57 22	13°26'24	0♂55	14°20	7° 7	23°45	10°32	23°28	13° 0	24° 9	1°55	9°37	8°21	7° 6	25°18	M 6
T 7	21 1 19	14°23'50	14°32	16°24	7°28	23°53	10°42	23°32	12°58	24° 8	1°56	9°D36	8°18	7°13	25°15	T 7
W 8	21 5 16	15°21'18	28°26	18°26	7°50	24° 2	10°51	23°36	12°56	24° 6	1°57	9°37	8°15	7°20	25°11	W 8
T 9	21 9 12	16°18'47	12♂37	20°27	8°14	24°11	11° 1	23°40	12°54	24° 5	1°58	9°38	8°12	7°26	25° 8	T 9
F 10	21 13 9	17°16'17	27° 6	22°27	8°40	24°21	11°11	23°45	12°52	24° 3	1°59	9°39	8° 8	7°33	25° 5	F 10
S 11	21 17 5	18°13'49	11♂48	24°26	9° 7	24°33	11°21	23°49	12°50	24° 2	2° 0	9°R40	8° 5	7°39	25° 2	S 11
S 12	21 21 2	19°11'21	26°38	26°23	9°36	24°44	11°31	23°53	12°49	24° 1	2° 1	9°39	8° 2	7°46	24°59	S 12
M13	21 24 58	20° 8'55	11♂30	28°19	10° 6	24°57	11°41	23°58	12°47	23°59	2° 2	9°36	7°59	7°53	24°56	M13
T 14	21 28 55	21° 6'30	26°16	0♂14	10°38	25°10	11°51	24° 2	12°45	23°58	2° 3	9°31	7°56	7°59	24°53	T 14
W15	21 32 51	22° 4'06	10♂47	2° 7	11°11	25°24	12° 1	24° 7	12°43	23°56	2° 4	9°25	7°53	8° 6	24°50	W15
T 16	21 36 48	23° 1'43	24°59	3°58	11°45	25°39	12°12	24°11	12°42	23°55	2° 5	9°18	7°49	8°13	24°46	T 16
F 17	21 40 45	23°59'22	8♂45	5°48	12°21	25°54	12°22	24°16	12°40	23°54	2° 6	9°12	7°46	8°19	24°43	F 17
S 18	21 44 41	24°57'01	22° 5	7°36	12°57	26°10	12°33	24°21	12°39	23°52	2° 7	9° 6	7°43	8°26	24°40	S 18
S 19	21 48 38	25°54'41	5♂0	9°23	13°35	26°27	12°43	24°26	12°37	23°51	2° 8	9° 2	7°40	8°33	24°37	S 19
M20	21 52 34	26°52'22	17°31	11° 9	14°15	26°44	12°54	24°30	12°35	23°50	2° 9	9° 0	7°37	8°39	24°34	M20
T 21	21 56 31	27°50'04	29°45	12°53	14°55	27° 2	13° 5	24°35	12°34	23°48	2°10	8°D59	7°34	8°46	24°31	T 21
W22	22 0 27	28°47'48	11♂44	14°36	15°36	27°21	13°16	24°40	12°33	23°47	2°11	9° 0	7°30	8°53	24°28	W22
T 23	22 4 24	29°45'32	23°35	16°17	16°18	27°40	13°27	24°46	12°31	23°46	2°12	9° 1	7°27	8°59	24°24	T 23
F 24	22 8 20	0♂43'18	5♂23	17°57	17° 2	28° 0	13°38	24°51	12°30	23°45	2°13	9°R 2	7°24	9° 6	24°21	F 24
S 25	22 12 17	1°41'04	17°12	19°35	17°46	28°20	13°49	24°56	12°29	23°43	2°13	9° 2	7°21	9°12	24°18	S 25
S 26	22 16 14	2°38'52	29° 6	21°12	18°31	28°41	14° 0	25° 1	12°27	23°42	2°14	9° 0	7°18	9°19	24°15	S 26
M27	22 20 10	3°36'42	11♂10	22°48	19°17	29° 2	14°11	25° 7	12°26	23°41	2°15	8°55	7°14	9°26	24°12	M27
T 28	22 24 7	4°34'32	23°24	24°22	20° 4	29°24	14°22	25°12	12°25	23°40	2°16	8°48	7°11	9°32	24° 9	T 28
W29	22 28 3	5°32'24	5♂52	25°55	20°51	29°47	14°34	25°18	12°24	23°39	2°17	8°40	7° 8	9°39	24° 6	W29
T 30	22 32 0	6°30'17	18°33	27°26	21°40	0♂10	14°45	25°23	12°23	23°38	2°17	8°30	7° 5	9°46	24° 3	T 30
F 31	22 35 56	7♂28'12	1°27	28♂56	22♂29	0♂33	14♂56	25♂29	12♂21	23♂37	2♂18	8♂20	7♂2	9♂52	24♂0	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	18n 5	8s59	3n49	20n39	1n25	17n18	6s 0	27s52	4s37	2s46	1n12	6s45	2n25	23s10	0s24	20s40
T 2	17 50	3 58	4 29	20 14	1 30	17 19	5 58	27 51	4 36	2 50	1 11	6 46	2 25	23 10	0 24	20 40
F 3	17 34	1n17	4 57	19 46	1 35	17 20	5 56	27 51	4 36	2 53	1 11	6 48	2 25	23 10	0 24	20 40
S 4	17 19	6 34	5 11	19 16	1 39	17 22	5 54	27 50	4 35	2 57	1 11	6 49	2 25	23 11	0 24	20 41
S 5	17 3	11 40	5 9	18 44	1 42	17 24	5 51	27 49	4 34	3 1	1 11	6 51	2 24	23 11	0 24	20 41
M 6	16 46	16 20	4 51	18 10	1 44	17 26	5 49	27 49	4 33	3 5	1 11	6 53	2 24	23 11	0 24	20 41
T 7	16 30	20 16	4 16	17 35	1 45	17 28	5 45	27 48	4 32	3 9	1 11	6 54	2 24	23 11	0 24	20 42
W 8	16 13	23 8	3 26	16 58	1 46	17 30	5 42	27 47	4 31	3 13	1 10	6 56	2 24	23 11	0 24	20 42
T 9	15 56	24 38	2 22	16 20	1 46	17 32	5 39	27 47	4 30	3 17	1 10	6 58	2 23	23 12	0 24	20 42
F 10	15 39	24 31	1 8	15 40	1 45	17 34	5 35	27 46	4 28	3 21	1 10	6 59	2 23	23 12	0 24	20 42
S 11	15 21	22 42	0s12	15 0	1 44	17 36	5 31	27 45	4 27	3 25	1 10	7 1	2 23	23 12	0 24	20 43
S 12	15 3	19 19	1 31	14 19	1 42	17 38	5 27	27 45	4 26	3 29	1 10	7 3	2 23	23 12	0 24	20 43
M13	14 45	14 41	2 44	13 36	1 40	17 40	5 23	27 44	4 25	3 33	1 10	7 5	2 23	23 12	0 24	20 43
T 14	14 27	9 12	3 46	12 53	1 37	17 42	5 18	27 43	4 23	3 37	1 10	7 7	2 22	23 12	0 24	20 43
W15	14 8	3 19	4 32	12 10	1 33	17 44	5 14	27 42	4 22	3 41	1 9	7 8	2 22	23 13	0 24	20 44
T 16	13 50	2s35	5 0	11 26	1 29	17 46	5 9	27 41	4 21	3 45	1 9	7 10	2 22	23 13	0 24	20 44
F 17	13 31	8 12	5 9	10 42	1 25	17 48	5 4	27 41	4 19	3 49	1 9	7 12	2 22	23 13	0 24	20 44
S 18	13 12	13 15	5 1	9 57	1 20	17 49	4 59	27 40	4 18	3 54	1 9	7 14	2 21	23 13	0 24	20 44
S 19	12 52	17 32	4 38	9 12	1 15	17 51	4 54	27 39	4 17	3 58	1 9	7 16	2 21	23 13	0 24	20 45
M20	12 33	20 55	4 2	8 27	1 9	17 52	4 49	27 38	4 15	4 2	1 9	7 18	2 21	23 13	0 24	20 45
T 21	12 13	23 16	3 16	7 42	1 4	17 53	4 44	27 37	4 14	4 7	1 9	7 20	2 21	23 13	0 24	20 45
W22	11 53	24 31	2 22	6 57	0 57	17 54	4 38	27 36	4 12	4 11	1 8	7 22	2 21	23 14	0 24	20 45
T 23	11 33	24 38	1 22	6 12	0 51	17 54	4 33	27 34	4 11	4 15	1 8	7 24	2 21	23 14	0 24	20 46
F 24	11 12	23 38	0 20	5 26	0 44	17 55	4 28	27 33	4 9	4 20	1 8	7 26	2 20	23 14	0 24	20 46
S 25	10 52	21 35	0n44	4 42	0 37	17 55	4 22	27 32	4 7	4 24	1 8	7 28	2 20	23 14	0 24	20 46
S 26	10 31	18 36	1 46	3 57	0 30	17 54	4 16	27 31	4 6	4 28	1 8	7 30	2 20	23 14	0 24	20 46
M27	10 10	14 47	2 44	3 12	0 23	17 54	4 11	27 29	4 4	4 33	1 8	7 32	2 20	23 14	0 24	20 47
T 28	9 49	10 19	3 35	2 28	0 15	17 53	4 5	27 28	4 3	4 37	1 8	7 35	2 20	23 14	0 24	20 47
W29	9 28	5 22	4 17	1 44	0 7	17 52	3 59	27 26	4 1	4 42	1 7	7 37	2 19	23 14	0 24	20 47
T 30	9 7	0 8	4 46	1 0	0s 1	17 50	3 53	27 25	3 59	4 46	1 7	7 39	2 19	23 14	0 24	20 47
F 31	8n46	5n12	5n 2	0n17	0s 9	17n48	3s48	27s23	3s58	4s51	1n 7	7s41	2n19	23s15	0s24	20s47

Julian Day Number = 2509830.5, Delta T = 128.48 sec
Ecliptic obliquity = 23°25'08, Nutation = 0°00'18, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°58'13, Lahiri = 26°05'13

ASTRODIENST EPHEMERIS for the year 2159
geocentric

SEPTEMBER 2159

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 39 53	8 ^h 26'09	14 ^h 34	0 ^h 25	23 ^h 19	0 ^h 57	15 ^h 8	25 ^h 34	12 ^h R20	23 ^h R36	2 ^h 19	8 ^h R10	6 ^h 59	9 ^h 59	23 ^h R57	S 1
S 2	22 43 49	9 ^h 24'08	27 ^h 54	1 ^h 52	24 ^h 10	1 ^h 22	15 ^h 20	25 ^h 40	12 ^h 20	23 ^h 35	2 ^h 19	8 ^h 2	6 ^h 55	10 ^h 6	23 ^h 54	S 2
M 3	22 47 46	10 ^h 22'08	11 ^h 24	3 ^h 18	25 ^h 1	1 ^h 47	15 ^h 31	25 ^h 46	12 ^h 19	23 ^h 34	2 ^h 20	7 ^h 56	6 ^h 52	10 ^h 12	23 ^h 51	M 3
T 4	22 51 43	11 ^h 20'10	25 ^h 6	4 ^h 43	25 ^h 53	2 ^h 12	15 ^h 43	25 ^h 52	12 ^h 18	23 ^h 33	2 ^h 21	7 ^h 53	6 ^h 49	10 ^h 19	23 ^h 48	T 4
W 5	22 55 39	12 ^h 18'14	8 ^h 15	6 ^h 6	26 ^h 46	2 ^h 38	15 ^h 55	25 ^h 58	12 ^h 17	23 ^h 32	2 ^h 21	7 ^h D52	6 ^h 46	10 ^h 26	23 ^h 45	W 5
T 6	22 59 36	13 ^h 16'21	23 ^h 1	7 ^h 27	27 ^h 39	3 ^h 4	16 ^h 6	26 ^h 3	12 ^h 16	23 ^h 31	2 ^h 22	7 ^h 52	6 ^h 43	10 ^h 32	23 ^h 42	T 6
F 7	23 3 32	14 ^h 14'29	7 ^h 513	8 ^h 48	28 ^h 33	3 ^h 31	16 ^h 18	26 ^h 9	12 ^h 15	23 ^h 30	2 ^h 22	7 ^h R52	6 ^h 40	10 ^h 39	23 ^h 39	F 7
S 8	23 7 29	15 ^h 12'39	21 ^h 35	10 ^h 6	29 ^h 28	3 ^h 58	16 ^h 30	26 ^h 15	12 ^h 15	23 ^h 29	2 ^h 23	7 ^h 52	6 ^h 36	10 ^h 46	23 ^h 36	S 8
S 9	23 11 25	16 ^h 10'51	6 ^h 2	11 ^h 23	0 ^h 23	4 ^h 26	16 ^h 42	26 ^h 22	12 ^h 14	23 ^h 28	2 ^h 24	7 ^h 49	6 ^h 33	10 ^h 52	23 ^h 33	S 9
M10	23 15 22	17 ^h 9'05	20 ^h 31	12 ^h 38	1 ^h 18	4 ^h 54	16 ^h 54	26 ^h 28	12 ^h 13	23 ^h 27	2 ^h 24	7 ^h 44	6 ^h 30	10 ^h 59	23 ^h 31	M10
T 11	23 19 18	18 ^h 7'21	4 ^h 56	13 ^h 52	2 ^h 15	5 ^h 23	17 ^h 6	26 ^h 34	12 ^h 13	23 ^h 27	2 ^h 25	7 ^h 36	6 ^h 27	11 ^h 5	23 ^h 28	T 11
W12	23 23 15	19 ^h 5'39	19 ^h 11	15 ^h 4	3 ^h 11	5 ^h 51	17 ^h 19	26 ^h 40	12 ^h 12	23 ^h 26	2 ^h 25	7 ^h 26	6 ^h 24	11 ^h 12	23 ^h 25	W12
T 13	23 27 12	20 ^h 3'58	3 ^h 11	16 ^h 14	4 ^h 8	6 ^h 21	17 ^h 31	26 ^h 46	12 ^h 12	23 ^h 25	2 ^h 25	7 ^h 14	6 ^h 20	11 ^h 19	23 ^h 22	T 13
F 14	23 31 8	21 ^h 2'19	16 ^h 50	17 ^h 22	5 ^h 6	6 ^h 50	17 ^h 43	26 ^h 53	12 ^h 12	23 ^h 24	2 ^h 26	7 ^h 3	6 ^h 17	11 ^h 25	23 ^h 20	F 14
S 15	23 35 5	22 ^h 0'42	0 ^h 7	18 ^h 27	6 ^h 4	7 ^h 20	17 ^h 55	26 ^h 59	12 ^h 11	23 ^h 24	2 ^h 26	6 ^h 53	6 ^h 14	11 ^h 32	23 ^h 17	S 15
S 16	23 39 1	22 ^h 59'07	13 ^h 1	19 ^h 31	7 ^h 2	7 ^h 51	18 ^h 8	27 ^h 6	12 ^h 11	23 ^h 23	2 ^h 27	6 ^h 45	6 ^h 11	11 ^h 39	23 ^h 15	S 16
M17	23 42 58	23 ^h 57'33	25 ^h 32	20 ^h 32	8 ^h 1	8 ^h 21	18 ^h 20	27 ^h 12	12 ^h 11	23 ^h 23	2 ^h 27	6 ^h 39	6 ^h 8	11 ^h 45	23 ^h 12	M17
T 18	23 46 54	24 ^h 56'01	7 ^h 46	21 ^h 31	9 ^h 1	8 ^h 52	18 ^h 32	27 ^h 18	12 ^h 10	23 ^h 22	2 ^h 27	6 ^h 36	6 ^h 5	11 ^h 52	23 ^h 9	T 18
W19	23 50 51	25 ^h 54'30	19 ^h 46	22 ^h 27	10 ^h 1	9 ^h 24	18 ^h 45	27 ^h 25	12 ^h 10	23 ^h 21	2 ^h 28	6 ^h 35	6 ^h 1	11 ^h 59	23 ^h 7	W19
T 20	23 54 47	26 ^h 53'01	1 ^h 37	23 ^h 21	11 ^h 1	9 ^h 56	18 ^h 57	27 ^h 32	12 ^h 10	23 ^h 21	2 ^h 28	6 ^h 35	5 ^h 58	12 ^h 5	23 ^h 5	T 20
F 21	23 58 44	27 ^h 51'34	13 ^h 25	24 ^h 11	12 ^h 1	10 ^h 28	19 ^h 10	27 ^h 38	12 ^h D10	23 ^h 21	2 ^h 28	6 ^h 35	5 ^h 55	12 ^h 12	23 ^h 2	F 21
S 22	0 2 40	28 ^h 50'09	25 ^h 15	24 ^h 58	13 ^h 2	11 ^h 0	19 ^h 22	27 ^h 45	12 ^h 10	23 ^h 20	2 ^h 29	6 ^h 34	5 ^h 52	12 ^h 19	23 ^h 0	S 22
S 23	0 6 37	29 ^h 48'45	7 ^h 13	25 ^h 41	14 ^h 3	11 ^h 33	19 ^h 35	27 ^h 52	12 ^h 10	23 ^h 20	2 ^h 29	6 ^h 30	5 ^h 49	12 ^h 25	22 ^h 58	S 23
M24	0 10 34	0 ^h 47'22	19 ^h 23	26 ^h 20	15 ^h 5	12 ^h 6	19 ^h 47	27 ^h 58	12 ^h 10	23 ^h 19	2 ^h 29	6 ^h 25	5 ^h 45	12 ^h 32	22 ^h 55	M24
T 25	0 14 30	1 ^h 46'02	1 ^h 47	26 ^h 56	16 ^h 7	12 ^h 39	20 ^h 0	28 ^h 5	12 ^h 10	23 ^h 19	2 ^h 29	6 ^h 16	5 ^h 42	12 ^h 38	22 ^h 53	T 25
W26	0 18 27	2 ^h 44'43	14 ^h 29	27 ^h 26	17 ^h 9	13 ^h 13	20 ^h 13	28 ^h 12	12 ^h 11	23 ^h 19	2 ^h 29	6 ^h 5	5 ^h 39	12 ^h 45	22 ^h 51	W26
T 27	0 22 23	3 ^h 43'26	27 ^h 29	27 ^h 52	18 ^h 12	13 ^h 46	20 ^h 25	28 ^h 19	12 ^h 11	23 ^h 18	2 ^h 29	5 ^h 53	5 ^h 36	12 ^h 52	22 ^h 49	T 27
F 28	0 26 20	4 ^h 42'11	10 ^h 45	28 ^h 13	19 ^h 15	14 ^h 21	20 ^h 38	28 ^h 25	12 ^h 11	23 ^h 18	2 ^h 30	5 ^h 40	5 ^h 33	12 ^h 58	22 ^h 47	F 28
S 29	0 30 16	5 ^h 40'58	24 ^h 16	28 ^h 28	20 ^h 18	14 ^h 55	20 ^h 51	28 ^h 32	12 ^h 12	23 ^h 18	2 ^h 30	5 ^h 28	5 ^h 30	13 ^h 5	22 ^h 45	S 29
S 30	0 34 13	6 ^h 39'48	7 ^h 59	28 ^h 37	21 ^h 22	15 ^h 30	21 ^h 4	28 ^h 39	12 ^h 12	23 ^h 18	2 ^h 30	5 ^h 28	5 ^h 26	13 ^h 12	22 ^h 43	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
S 1	8n24	10n23	5n 2	0s26	0s17	17n46	3s42	27s21	3s56	4s55	1n 7	7s43	2n19	23s15	0s24	20s48	0n34	17n 3	6s21	23s10	23s14	22s46	7s 7	6n47	
S 2	8 2	15 10	4 46	1 8	0 25	17 43	3 36	27 19	3 55	5 0	1 7	7 45	2 19	23 15	0 24	20 48	0 34	17 3	6 21	23 11	23 14	22 45	7 8	6 47	
M 3	7 40	19 16	4 14	1 50	0 34	17 40	3 30	27 17	3 53	5 5	1 7	7 48	2 19	23 15	0 24	20 48	0 34	17 3	6 21	23 11	23 14	22 44	7 9	6 47	
T 4	7 18	22 23	3 27	2 31	0 42	17 37	3 24	27 15	3 51	5 9	1 7	7 50	2 18	23 15	0 24	20 48	0 34	17 3	6 21	23 11	23 15	22 42	7 10	6 47	
W 5	6 56	24 13	2 28	3 12	0 51	17 33	3 18	27 13	3 50	5 14	1 7	7 52	2 18	23 15	0 24	20 48	0 34	17 3	6 21	23 11	23 15	22 41	7 11	6 46	
T 6	6 34	24 32	1 18	3 52	0 59	17 28	3 12	27 11	3 48	5 18	1 7	7 54	2 18	23 15	0 24	20 49	0 34	17 3	6 21	23 11	23 15	22 39	7 13	6 46	
F 7	6 12	23 17	0 3	4 32	1 8	17 24	3 6	27 8	3 46	5 23	1 6	7 57	2 18	23 15	0 24	20 49	0 34	17 3	6 21	23 11	23 15	22 38	7 14	6 46	
S 8	5 49	20 30	1s12	5 10	1 17	17 19	3 0	27 6	3 44	5 28	1 6	7 59	2 18	23 15	0 24	20 49	0 34	17 3	6 21	23 11	23 15	22 37	7 15	6 46	
S 9	5 27	16 25	2 24	5 49	1 25	17 13	2 54	27 3	3 43	5 32	1 6	8 1	2 18	23 15	0 24	20 49	0 34	17 3	6 21	23 11	23 15	22 35	7 16	6 45	
M10	5 4	11 23	3 26	6 26	1 34	17 7	2 48	27 1	3 41	5 37	1 6	8 4	2 18	23 15	0 24	20 49	0 34	17 2	6 21	23 12	23 16	22 34	7 17	6 45	
T 11	4 42	5 44	4 15	7 2	1 43	17 0	2 42	26 58	3 39	5 42	1 6	8 6	2 17	23 15	0 24	20 49	0 34	17 2	6 22	23 12	23 16	22 32	7 18	6 45	
W12	4 19	0s 8	4 47	7 38	1 51	16 54	2 36	26 55	3 38	5 46	1 6	8 8	2 17	23 15	0 24	20 50	0 34	17 2	6 22	23 13	23 16	22 31	7 19	6 45	
T 13	3 56	5 52	5 1	8 13	2 0	16 46	2 30	26 52	3 36	5 51	1 6	8 11	2 17	23 15	0 24	20 50	0 34	17 2	6 22	23 13	23 16	22 30	7 20	6 45	
F 14	3 33	11 11	4 58	8 47	2 8	16 38	2 24	26 48	3 34	5 56	1 6	8 13	2 17	23 15	0 24	20 50	0 34	17 2	6 22	23 14	23 16	22 28	7 21	6 44	
S 15	3 10	15 50	4 38	9 20	2 16	16 30	2 19	26 45	3 32	6 1	1 6	8 16	2 17	23 15	0 24	20 50	0 34	17 2	6 22	23 14	23 16	22 27	7 23	6 44	
S 16	2 47	19 36	4 4	9 51	2 24	16 21	2 13	26 41	3 31	6 5	1 6	8 18	2 17	23 15	0 24	20 50	0 34	17 2	6 22	23 15	23 16	22 25	7 24	6 44	
M17	2 24	22 21	3 20	10 22	2 32	16 12	2 7	26 38	3 29	6 10	1 6	8 20	2 17	23 15	0 24	20 50	0 34	17 2	6 22	23 15	23 17	22 24	7 25	6 43	
T 18	2 1	24 0	2 27	10 51	2 40	16 3	2 1	26 34	3 27	6 15	1 5	8 23	2 17	23 15	0 24	20 50	0 34	17 2	6 22	23 15	23 17	22 22	7 26	6 43	
W19	1 38	24 29	1 28	11 20	2 48	15 52	1 55	26 30	3 25	6 20	1 5	8 25	2 16	23 15	0 24	20 51	0 34	17 2	6 22	23 15	23 17	22 21	7 27	6 43	
T 20	1 14	23 51	0 26	11 46	2 55	15 42	1 49	26 26	3 24	6 25	1 5	8 28	2 16	23 15	0 24	20 51	0 34	17 1	6 22	23 15	23 17	22 19	7 28	6 43	
F 21	0 51	22 9	0n36	12 11	3 2	15 31	1 44	26 22	3 22	6 29	1 5	8 30	2 16	23 15	0 24	20 51	0 34	17 1	6 23	23 15	23 17	22 18	7 29	6 42	
S 22	0 28	19 28	1 37	12 35	3 9	15 19	1 38	26 17	3 20	6 34	1 5	8 33	2 16	23 15	0 24	20 51	0 34	17 1	6 23	23 15	23 17	22 16	7 30	6 42	
S 23	0 4	15 57	2 35	12 57	3 15	15 7	1 32	26 13	3 18	6 39	1 5	8 35	2 16	23 15	0 24	20 51	0 34	17 1	6 23	23 16	23 17	22 15	7 31	6 42	
M24	0s19	11 44	3 26	13 17	3 21	14 55	1 27	26 8	3 17	6 44	1 5	8 38	2 16	23 15	0 24	20 51	0 34	17 1	6 23	23 16	23 18	22 13	7 32	6 41	
T 25	0 42	6 57	4 8	13 35	3 26	14 42	1 21	26 3	3 15	6 49	1 5	8 40	2 16	23 15	0 24	20 51	0 34	17 1	6 23	23 16	23 18	22 12	7 33	6 41	
W26	1 5	1 48	4 40	13 50	3 31	14 29	1 16	25 58	3 13	6 53	1 5	8 43	2 16	23 15	0 24	20 51	0 34	17 1	6 23	23 17	23 18	22 10	7 34	6 41	
T 27	1 29	3n32	4 57	14 4	3 35	14 15	1 10	25 53	3 11	6 58	1 5	8 45	2 16	23 15	0 24	20 51	0 34	17 1	6 23	23 17	23 18	22 9	7 35	6 40	
F 28	1 52	8 50	4 59	14 14	3 39	14 1	1 5	25 47	3 10	7 3	1 5	8 48	2 15	23 15	0 24	20 51	0 34	17 1	6 23	23 18	23 18	22 7	7 36	6 40	
S 29	2 15	13 48	4 45	14 22	3 42	13 46	0 59	25 42	3 8	7 8	1 5	8 50	2 15	23 15	0 24	20 51	0 34	17 1	6 23	23 18	23 18	22 6	7 37	6 40	
S 30	2s39	18n 9	4n13	14s27	3s43	13n31	0s54	25s36	3s 6	7s13	1n 5	8s53	2n15	23s15	0s24	20s51	0n34	17n 0	6s23	23s19	23s18	22s 4	7s38	6n39	

ASTRODIENST EPHEMERIS for the year 2159

geocentric

OCTOBER 2159

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 38 9	7♂38'39	21♂52	28°R40	22♂26	16♂4	21♂16	28♂46	12♂13	23°R17	2♂30	5°R10	5♂23	13♂18	22°R41	M 1
T 2	0 42 6	8°37'33	5♂50	28♂36	23°30	16°40	21°29	28°53	12°13	23♂17	2°30	5♂5	5°20	13°25	22°R39	T 2
W 3	0 46 3	9°36'29	19°52	28°24	24°34	17°15	21°42	29°0	12°14	23°17	2°R30	5°3	5°17	13°32	22°37	W 3
T 4	0 49 59	10°35'27	3♂56	28°5	25°39	17°50	21°55	29°7	12°14	23°17	2°30	5°3	5°14	13°38	22°35	T 4
F 5	0 53 56	11°34'28	18°2	27°39	26°44	18°26	22°8	29°14	12°15	23°D17	2°30	5°3	5°11	13°45	22°34	F 5
S 6	0 57 52	12°33'31	2♂9	27°5	27°50	19°2	22°21	29°21	12°16	23°17	2°30	5°2	5°7	13°52	22°32	S 6
S 7	1 1 49	13°32'36	16°15	26°23	28°55	19°39	22°34	29°28	12°16	23°17	2°30	4°59	5°4	13°58	22°30	S 7
M 8	1 5 45	14°31'43	0♂20	25°34	0♂1	20°15	22°47	29°35	12°17	23°17	2°30	4°53	5°1	14°5	22°29	M 8
T 9	1 9 42	15°30'53	14°19	24°38	1°7	20°52	23°0	29°42	12°18	23°17	2°29	4°44	4°58	14°11	22°27	T 9
W10	1 13 38	16°30'05	28°9	23°36	2°13	21°29	23°13	29°50	12°19	23°17	2°29	4°33	4°55	14°18	22°26	W10
T 11	1 17 35	17°29'19	11♂47	22°30	3°20	22°6	23°26	29°57	12°20	23°18	2°29	4°21	4°51	14°25	22°25	T 11
F 12	1 21 32	18°28'35	25°10	21°20	4°26	22°43	23°39	0♂4	12°21	23°18	2°29	4°9	4°48	14°31	22°23	F 12
S 13	1 25 28	19°27'53	8♂14	20°9	5°33	23°21	23°52	0°11	12°22	23°18	2°29	3°57	4°45	14°38	22°22	S 13
S 14	1 29 25	20°27'13	20°59	18°58	6°41	23°59	24°5	0°18	12°23	23°18	2°28	3°48	4°42	14°45	22°21	S 14
M15	1 33 21	21°26'35	3♂27	17°49	7°48	24°37	24°18	0°26	12°24	23°19	2°28	3°42	4°39	14°51	22°20	M15
T 16	1 37 18	22°25'59	15°38	16°45	8°56	25°15	24°31	0°33	12°26	23°19	2°28	3°38	4°36	14°58	22°19	T 16
W17	1 41 14	23°25'25	27°36	15°47	10°3	25°53	24°44	0°40	12°27	23°19	2°28	3°37	4°32	15°5	22°18	W17
T 18	1 45 11	24°24'52	9♂37	14°57	11°11	26°32	24°57	0°47	12°28	23°20	2°27	3°D36	4°29	15°11	22°17	T 18
F 19	1 49 7	25°24'22	21°15	14°16	12°19	27°10	25°10	0°54	12°30	23°20	2°27	3°R37	4°26	15°18	22°16	F 19
S 20	1 53 4	26°23'53	3♂5	13°46	13°28	27°49	25°23	1°2	12°31	23°21	2°27	3°37	4°23	15°25	22°15	S 20
S 21	1 57 1	27°23'26	15°4	13°26	14°36	28°28	25°36	1°9	12°32	23°21	2°26	3°35	4°20	15°31	22°14	S 21
M22	2 0 57	28°23'00	27°15	13°D18	15°45	29°7	25°49	1°16	12°34	23°22	2°26	3°31	4°17	15°38	22°13	M22
T 23	2 4 54	29°22'36	9♂44	13°20	16°54	29°46	26°2	1°23	12°35	23°22	2°25	3°25	4°13	15°45	22°13	T 23
W24	2 8 50	0♂22'14	22°34	13°34	18°3	0♂26	26°15	1°31	12°37	23°23	2°25	3°16	4°10	15°51	22°12	W24
T 25	2 12 47	1°21'54	5°P46	13°57	19°12	1°5	26°28	1°38	12°39	23°24	2°24	3°6	4°7	15°58	22°12	T 25
F 26	2 16 43	2°21'36	19°20	14°31	20°21	1°45	26°41	1°45	12°40	23°24	2°24	2°56	4°4	16°4	22°11	F 26
S 27	2 20 40	3°21'19	3♂14	15°13	21°31	2°25	26°54	1°53	12°42	23°25	2°23	2°46	4°1	16°11	22°11	S 27
S 28	2 24 36	4°21'05	17°22	16°4	22°41	3°5	27°7	2°0	12°44	23°26	2°23	2°37	3°57	16°18	22°11	S 28
M29	2 28 33	5°20'52	1♂41	17°1	23°50	3°45	27°20	2°7	12°46	23°26	2°22	2°31	3°54	16°24	22°10	M29
T 30	2 32 30	6°20'42	16°5	18°6	25°0	4°25	27°33	2°14	12°48	23°27	2°22	2°28	3°51	16°31	22°10	T 30
W31	2 36 26	7♂20'34	0♂28	19♂15	26♂10	5♂6	27♂46	2♂22	12♂50	23♂28	2♂21	2°D27	3♂48	16♂38	22♂10	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	3s 2	21n33	3n27	14s29	3s44	13n15	0s49	25s30	3s 4	7s18	1n 5	8s55	2n15	23s15	0s24	20s52
T 2	3 25	23 41	2 28	14 27	3 44	12 59	0 43	25 24	3 3	7 22	1 5	8 58	2 15	23 15	0 24	20 52
W 3	3 48	24 21	1 19	14 21	3 42	12 43	0 38	25 18	3 1	7 27	1 5	9 0	2 15	23 15	0 24	20 52
T 4	4 11	23 27	0 6	14 12	3 39	12 26	0 33	25 11	2 59	7 32	1 4	9 3	2 15	23 15	0 24	20 52
F 5	4 34	21 5	1s 8	13 58	3 35	12 9	0 28	25 5	2 57	7 37	1 4	9 5	2 15	23 15	0 24	20 52
S 6	4 57	17 25	2 18	13 40	3 28	11 51	0 23	24 58	2 56	7 42	1 4	9 8	2 15	23 15	0 24	20 52
S 7	5 20	12 46	3 20	13 17	3 20	11 33	0 18	24 51	2 54	7 47	1 4	9 10	2 15	23 15	0 24	20 52
M 8	5 43	7 28	4 9	12 50	3 10	11 15	0 14	24 44	2 52	7 51	1 4	9 13	2 15	23 15	0 24	20 52
T 9	6 6	1 49	4 42	12 18	2 59	10 56	0 9	24 36	2 50	7 56	1 4	9 15	2 15	23 14	0 24	20 52
W10	6 29	3s50	4 59	11 43	2 45	10 37	0 4	24 29	2 49	8 1	1 4	9 18	2 15	23 14	0 23	20 52
T 11	6 52	9 14	4 59	11 4	2 30	10 17	0n 1	24 21	2 47	8 6	1 4	9 21	2 15	23 14	0 23	20 52
F 12	7 14	14 5	4 41	10 22	2 13	9 57	0 5	24 13	2 45	8 11	1 4	9 23	2 15	23 14	0 23	20 52
S 13	7 37	18 10	4 10	9 38	1 54	9 37	0 10	24 5	2 43	8 15	1 4	9 26	2 14	23 14	0 23	20 52
S 14	7 59	21 18	3 26	8 53	1 35	9 16	0 14	23 57	2 42	8 20	1 4	9 28	2 14	23 14	0 23	20 52
M15	8 21	23 20	2 33	8 8	1 15	8 55	0 18	23 48	2 40	8 25	1 4	9 31	2 14	23 14	0 23	20 52
T 16	8 43	24 12	1 34	7 25	0 54	8 34	0 22	23 39	2 38	8 30	1 4	9 33	2 14	23 14	0 23	20 52
W17	9 5	23 56	0 32	6 43	0 34	8 12	0 27	23 31	2 36	8 35	1 4	9 36	2 14	23 14	0 23	20 52
T 18	9 27	22 34	0n31	6 6	0 13	7 50	0 31	23 22	2 35	8 39	1 4	9 38	2 14	23 13	0 23	20 52
F 19	9 49	20 13	1 33	5 32	0n 6	7 28	0 35	23 12	2 33	8 44	1 4	9 41	2 14	23 13	0 23	20 52
S 20	10 11	17 1	2 30	5 3	0 24	7 5	0 38	23 3	2 31	8 49	1 4	9 43	2 14	23 13	0 23	20 52
S 21	10 32	13 5	3 22	4 40	0 42	6 42	0 42	22 53	2 29	8 54	1 4	9 46	2 14	23 13	0 23	20 51
M22	10 53	8 34	4 6	4 22	0 57	6 19	0 46	22 43	2 28	8 58	1 4	9 48	2 14	23 13	0 23	20 51
T 23	11 15	3 36	4 39	4 10	1 11	5 56	0 50	22 33	2 26	9 3	1 4	9 51	2 14	23 13	0 23	20 51
W24	11 36	1n38	4 59	4 4	1 24	5 32	0 53	22 23	2 24	9 8	1 4	9 53	2 14	23 12	0 23	20 51
T 25	11 56	6 56	5 4	4 3	1 34	5 8	0 57	22 13	2 23	9 13	1 4	9 56	2 14	23 12	0 23	20 51
F 26	12 17	12 4	4 52	4 8	1 43	4 44	1 0	22 2	2 21	9 17	1 4	9 58	2 14	23 12	0 23	20 51
S 27	12 37	16 41	4 23	4 17	1 51	4 20	1 3	21 52	2 19	9 22	1 4	10 1	2 14	23 12	0 23	20 51
S 28	12 58	20 28	3 37	4 31	1 57	3 55	1 6	21 41	2 17	9 27	1 4	10 3	2 14	23 12	0 23	20 51
M29	13 18	23 3	2 37	4 48	2 2	3 30	1 9	21 30	2 16	9 31	1 4	10 6	2 14	23 12	0 23	20 51
T 30	13 37	24 8	1 27	5 10	2 5	3 6	1 12	21 18	2 14	9 36	1 4	10 8	2 14	23 11	0 23	20 51
W31	13s57	23n36	0n11	5s34	2n 7	2n40	1n15	21s 7	2s12	9s41	1n 4	10s11	2n14	23s11	0s23	20s51

Julian Day Number = 2509891.5, Delta T = 128.60 sec

Ecliptic obliquity = 23°25'08, Nutation = 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°58'21, Lahiri = 26°05'22

ASTRODIENST EPHEMERIS for the year 2159
geocentric

NOVEMBER 2159

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	2 40 23	8♑20'28	14♌48	20♊30	27♎21	5♈46	27♎59	2♑29	12♏52	23♏29	2°R20	2♏27	3♏45	16♏44	22°D10	T 1
F 2	2 44 19	9°20'25	29° 0	21°49	28°31	6°27	28°12	2°36	12°54	23°30	2♏20	2°28	3°42	16°51	22°10	F 2
S 3	2 48 16	10°20'23	13♌ 5	23°11	29°42	7° 7	28°25	2°43	12°56	23°31	2°19	2°R28	3°38	16°58	22°10	S 3
S 4	2 52 12	11°20'24	27° 1	24°36	0♊52	7°48	28°38	2°51	12°58	23°32	2°18	2°27	3°35	17° 4	22°10	S 4
M 5	2 56 9	12°20'27	10♎47	26° 4	2° 3	8°29	28°51	2°58	13° 0	23°33	2°18	2°24	3°32	17°11	22°10	M 5
T 6	3 0 5	13°20'32	24°23	27°34	3°14	9°10	29° 4	3° 5	13° 2	23°34	2°17	2°18	3°29	17°18	22°11	T 6
W 7	3 4 2	14°20'39	7♊48	29° 6	4°25	9°51	29°16	3°12	13° 4	23°35	2°16	2°11	3°26	17°24	22°11	W 7
T 8	3 7 59	15°20'48	21° 1	0♑39	5°36	10°32	29°29	3°19	13° 7	23°36	2°16	2° 3	3°22	17°31	22°11	T 8
F 9	3 11 55	16°20'58	4♑ 0	2°13	6°48	11°14	29°42	3°27	13° 9	23°37	2°15	1°54	3°19	17°38	22°12	F 9
S 10	3 15 52	17°21'11	16°46	3°47	7°59	11°55	29°55	3°34	13°11	23°38	2°14	1°46	3°16	17°44	22°13	S 10
S 11	3 19 48	18°21'26	29°17	5°23	9°11	12°37	0♑ 8	3°41	13°14	23°39	2°13	1°40	3°13	17°51	22°13	S 11
M12	3 23 45	19°21'42	11♊34	6°59	10°22	13°18	0°20	3°48	13°16	23°40	2°12	1°36	3°10	17°58	22°14	M12
T 13	3 27 41	20°22'00	23°39	8°35	11°34	14° 0	0°33	3°55	13°19	23°42	2°12	1°34	3° 7	18° 4	22°15	T 13
W14	3 31 38	21°22'20	5♏35	10°12	12°46	14°42	0°46	4° 2	13°21	23°43	2°11	1°D34	3° 3	18°11	22°15	W14
T 15	3 35 34	22°22'41	17°24	11°48	13°58	15°24	0°58	4° 9	13°24	23°44	2°10	1°35	3° 0	18°17	22°16	T 15
F 16	3 39 31	23°23'04	29°11	13°25	15°10	16° 6	1°11	4°16	13°26	23°46	2° 9	1°36	2°57	18°24	22°17	F 16
S 17	3 43 28	24°23'28	11♈ 0	15° 2	16°22	16°48	1°23	4°23	13°29	23°47	2° 8	1°38	2°54	18°31	22°18	S 17
S 18	3 47 24	25°23'53	22°57	16°38	17°34	17°30	1°36	4°30	13°31	23°48	2° 7	1°R39	2°51	18°37	22°19	S 18
M19	3 51 21	26°24'19	5♊ 7	18°15	18°47	18°12	1°48	4°37	13°34	23°50	2° 6	1°39	2°48	18°44	22°20	M19
T 20	3 55 17	27°24'47	17°34	19°51	19°59	18°54	2° 1	4°44	13°37	23°51	2° 5	1°37	2°44	18°51	22°22	T 20
W21	3 59 14	28°25'16	0°Y23	21°27	21°11	19°37	2°13	4°51	13°40	23°53	2° 4	1°33	2°41	18°57	22°23	W21
T 22	4 3 10	29°25'47	13°37	23° 3	22°24	20°19	2°25	4°58	13°42	23°54	2° 3	1°29	2°38	19° 4	22°24	T 22
F 23	4 7 7	0♊26'19	27°17	24°39	23°37	21° 2	2°38	5° 5	13°45	23°56	2° 2	1°24	2°35	19°11	22°25	F 23
S 24	4 11 3	1°26'52	11♏22	26°15	24°49	21°44	2°50	5°11	13°48	23°57	2° 1	1°19	2°32	19°17	22°27	S 24
S 25	4 15 0	2°27'27	25°48	27°50	26° 2	22°27	3° 2	5°18	13°51	23°59	2° 0	1°15	2°28	19°24	22°28	S 25
M26	4 18 57	3°28'03	10♑29	29°26	27°15	23° 9	3°14	5°25	13°54	24° 0	1°59	1°12	2°25	19°31	22°30	M26
T 27	4 22 53	4°28'40	25°19	1♊ 1	28°28	23°52	3°26	5°31	13°57	24° 2	1°58	1°D11	2°22	19°37	22°32	T 27
W28	4 26 50	5°29'19	10♏ 9	2°36	29°41	24°35	3°38	5°38	14° 0	24° 4	1°57	1°11	2°19	19°44	22°33	W28
T 29	4 30 46	6°30'00	24°53	4°11	0♑54	25°18	3°50	5°45	14° 3	24° 5	1°56	1°12	2°16	19°51	22°35	T 29
F 30	4 34 43	7♊30'42	9♌25	5♊46	2♑ 7	26°11	4♑ 2	5♑51	14♏ 6	24♏ 7	1°55	1°14	2°13	19°57	22°37	F 30

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	14s16	21n30	1 s 6	6 s 1	2n 8	2n15	1n18	20s55	2s11	9s45	1n 4	10s13	2n14	23s11
F 2	14 36 18	5 2 18	6 31	2 8	1 49	1 21	20 44	2 9	9 50	1 4	10 16	2 14	23 11	0 23
S 3	14 55	13 40	3 21	7 2	2 7	1 24	1 23	20 32	2 7	9 54	1 4	10 18	2 14	23 11
S 4	15 13	8 34	4 11	7 35	2 6	0 58	1 26	20 20	2 6	9 59	1 4	10 21	2 14	23 10
M 5	15 32	3 6	4 46	8 9	2 3	0 32	1 28	20 7	2 4	10 3	1 4	10 23	2 14	23 10
T 6	15 50	2s26	5 5	8 44	2 0	0 6	1 31	19 55	2 2	10 8	1 4	10 25	2 14	23 10
W 7	16 8	7 47	5 6	9 19	1 57	0s20	1 33	19 42	2 1	10 12	1 4	10 28	2 14	23 10
T 8	16 25	12 41	4 51	9 56	1 52	0 46	1 35	19 29	1 59	10 17	1 4	10 30	2 14	23 9
F 9	16 43	16 56	4 21	10 33	1 48	1 13	1 37	19 16	1 57	10 21	1 4	10 33	2 14	23 9
S 10	17 0	20 19	3 39	11 9	1 43	1 39	1 39	19 3	1 56	10 26	1 4	10 35	2 14	23 9
S 11	17 17	22 41	2 46	11 46	1 38	2 5	1 41	18 50	1 54	10 30	1 4	10 37	2 15	23 9
M12	17 33	23 55	1 46	12 23	1 32	2 32	1 42	18 36	1 53	10 35	1 4	10 40	2 15	23 8
T 13	17 49	23 59	0 43	13 0	1 26	2 59	1 44	18 23	1 51	10 39	1 4	10 42	2 15	23 8
W14	18 5	22 56	0n22	13 36	1 20	3 25	1 46	18 9	1 49	10 43	1 4	10 44	2 15	23 8
T 15	18 21	20 53	1 25	14 12	1 14	3 52	1 47	17 55	1 48	10 48	1 4	10 47	2 15	23 8
F 16	18 36	17 56	2 25	14 47	1 7	4 18	1 48	17 41	1 46	10 52	1 4	10 49	2 15	23 7
S 17	18 51	14 16	3 19	15 22	1 1	4 45	1 50	17 27	1 44	10 56	1 4	10 51	2 15	23 7
S 18	19 6	10 0	4 4	15 56	0 54	5 11	1 51	17 13	1 43	11 1	1 4	10 53	2 15	23 7
M19	19 20	5 17	4 40	16 29	0 47	5 38	1 52	16 58	1 41	11 5	1 4	10 56	2 15	23 7
T 20	19 34	0 15	5 3	17 2	0 40	6 4	1 53	16 43	1 40	11 9	1 5	10 58	2 15	23 6
W21	19 47	4n56	5 13	17 34	0 34	6 30	1 53	16 29	1 38	11 13	1 5	11 0	2 15	23 6
T 22	20 1	10 4	5 6	18 5	0 27	6 57	1 54	16 14	1 37	11 18	1 5	11 2	2 15	23 6
F 23	20 13	14 52	4 42	18 36	0 20	7 23	1 55	15 59	1 35	11 22	1 5	11 5	2 15	23 5
S 24	20 26	19 2	4 0	19 5	0 13	7 49	1 55	15 43	1 34	11 26	1 5	11 7	2 15	23 5
S 25	20 38	22 8	3 2	19 34	0 6	8 15	1 56	15 28	1 32	11 30	1 5	11 9	2 15	23 5
M26	20 50	23 50	1 51	20 1	0s 1	8 41	1 56	15 13	1 30	11 34	1 5	11 11	2 16	23 5
T 27	21 1	23 52	0 32	20 28	0 8	9 6	1 57	14 57	1 29	11 38	1 5	11 13	2 16	23 4
W28	21 12	22 13	0s49	20 54	0 14	9 32	1 57	14 41	1 27	11 42	1 5	11 15	2 16	23 4
T 29	21 23	19 3	2 7	21 18	0 21	9 57	1 57	14 26	1 26	11 46	1 5	11 17	2 16	23 4
F 30	21s33	14n44	3s15	21s42	0s27	10s22	1n57	14s10	1s24	11s50	1n 5	11s19	2n16	23s 3

Julian Day Number = 2509922.5, Delta T = 128.66 sec
Ecliptic obliquity = 23°25'07, Nutation = 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°58'25, Lahiri = 26°05'26

ASTRODIENST EPHEMERIS for the year 2159
geocentric

DECEMBER 2159

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 38 39	8♂31'25	23♂41	7♂20	3♂21	26♂43	4♂14	5♂58	14♂9	24♂9	1♂R54	1♂R15	2♂9	20♂4	22♂39	S 1
S 2	4 42 36	9°32'11	7♂40	8°55	4°34	27°26	4°26	6°4	14°12	24°10	1♂R53	1♂R15	2°6	20°11	22°41	S 2
M 3	4 46 32	10°32'57	21°20	10°29	5°47	28°9	4°38	6°11	14°15	24°12	1°52	1°15	2°3	20°17	22°43	M 3
T 4	4 50 29	11°33'45	4♂43	12°3	7°1	28°52	4°49	6°17	14°18	24°14	1°51	1°14	2°0	20°24	22°45	T 4
W 5	4 54 26	12°34'35	17°50	13°37	8°14	29°35	5°1	6°24	14°21	24°16	1°50	1°12	1°57	20°30	22°47	W 5
T 6	4 58 22	13°35'26	0♂42	15°12	9°28	0♂18	5°13	6°30	14°25	24°17	1°49	1°9	1°54	20°37	22°49	T 6
F 7	5 2 19	14°36'19	13°20	16°46	10°41	1°1	5°24	6°36	14°28	24°19	1°48	1°6	1°50	20°44	22°51	F 7
S 8	5 6 15	15°37'12	25°46	18°20	11°55	1°44	5°36	6°42	14°31	24°21	1°46	1°4	1°47	20°50	22°53	S 8
S 9	5 10 12	16°38'07	8♂0	19°54	13°9	2°28	5°47	6°48	14°34	24°23	1°45	1°2	1°44	20°57	22°56	S 9
M10	5 14 8	17°39'03	20°6	21°28	14°23	3°11	5°58	6°55	14°37	24°25	1°44	1°1	1°41	21°4	22°58	M10
T 11	5 18 5	18°40'00	2♂3	23°2	15°37	3°54	6°10	7°1	14°41	24°27	1°43	1°D 1	1°38	21°10	23°1	T 11
W12	5 22 1	19°40'58	13°54	24°36	16°50	4°37	6°21	7°7	14°44	24°29	1°42	1°1	1°34	21°17	23°3	W12
T 13	5 25 58	20°41'57	25°42	26°11	18°4	5°21	6°32	7°13	14°47	24°31	1°41	1°2	1°31	21°24	23°6	T 13
F 14	5 29 55	21°42'56	7♂29	27°45	19°18	6°4	6°43	7°18	14°51	24°33	1°39	1°3	1°28	21°30	23°8	F 14
S 15	5 33 51	22°43'56	19°19	29°19	20°32	6°48	6°54	7°24	14°54	24°35	1°38	1°4	1°25	21°37	23°11	S 15
S 16	5 37 48	23°44'57	1♂15	0♂53	21°46	7°31	7°5	7°30	14°58	24°37	1°37	1°5	1°22	21°44	23°14	S 16
M17	5 41 44	24°45'58	13°23	2°28	23°0	8°14	7°15	7°36	15°1	24°39	1°36	1°5	1°19	21°50	23°16	M17
T 18	5 45 41	25°46'59	25°46	4°2	24°14	8°58	7°26	7°41	15°4	24°41	1°35	1°R 5	1°15	21°57	23°19	T 18
W19	5 49 37	26°48'01	8♂29	5°37	25°29	9°41	7°37	7°47	15°8	24°43	1°34	1°5	1°12	22°4	23°22	W19
T 20	5 53 34	27°49'04	21°35	7°11	26°43	10°25	7°47	7°53	15°11	24°45	1°32	1°5	1°9	22°10	23°25	T 20
F 21	5 57 30	28°50'06	5♂9	8°46	27°57	11°8	7°57	7°58	15°15	24°47	1°31	1°5	1°6	22°17	23°28	F 21
S 22	6 1 27	29°51'10	19°9	10°21	29°11	11°52	8°8	8°3	15°18	24°49	1°30	1°4	1°3	22°24	23°31	S 22
S 23	6 5 24	0♂52'13	3♂37	11°55	0♂25	12°35	8°18	8°9	15°22	24°51	1°29	1°D 4	1°0	22°30	23°34	S 23
M24	6 9 20	1°53'17	18°26	13°30	1°40	13°19	8°28	8°14	15°25	24°53	1°28	1°4	0°56	22°37	23°37	M24
T 25	6 13 17	2°54'22	3♂30	15°4	2°54	14°2	8°38	8°19	15°29	24°55	1°26	1°R 4	0°53	22°44	23°40	T 25
W26	6 17 13	3°55'27	18°41	16°39	4°9	14°46	8°48	8°24	15°32	24°58	1°25	1°4	0°50	22°50	23°43	W26
T 27	6 21 10	4°56'32	3♂48	18°13	5°23	15°29	8°58	8°29	15°36	25°0	1°24	1°4	0°47	22°57	23°46	T 27
F 28	6 25 6	5°57'38	18°44	19°47	6°37	16°13	9°8	8°34	15°39	25°2	1°23	1°4	0°44	23°4	23°50	F 28
S 29	6 29 3	6°58'45	3♂20	21°20	7°52	16°57	9°17	8°39	15°43	25°4	1°22	1°3	0°40	23°10	23°53	S 29
S 30	6 33 0	7°59'52	17°33	22°53	9°6	17°40	9°27	8°44	15°46	25°6	1°20	1°2	0°37	23°17	23°56	S 30
M31	6 36 56	9♂0'59	1♂21	24♂25	10♂21	18♂24	9♂36	8♂49	15♂50	25♂9	1♂R19	1♂R 2	0♂34	23♂24	24♂0	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	9n40	4s10	22s 4	0s34	10s47	1n57	13s54	1s23	11s54	1n 5	11s21	2n16	23s 3	0s23	20s44	0n32	16n57	6s27	23s25	23s24	20s21	8s 5	6n12	
S 2	21 52	4 12	4 49	22 26	0 40	11 12	1 57	13 38	1 21	11 58	1 5	11 23	2 16	23 3	0 23	20 44	0 32	16 57	6 27	23 25	23 24	20 19	8 5	6 12	
M 3	22 1	1s20	5 11	22 46	0 47	11 37	1 56	13 21	1 20	12 2	1 5	11 25	2 16	23 2	0 23	20 44	0 32	16 57	6 27	23 25	23 24	20 17	8 5	6 11	
T 4	22 9	6 42	5 15	23 5	0 53	12 1	1 56	13 5	1 18	12 5	1 5	11 27	2 16	23 2	0 23	20 44	0 32	16 57	6 27	23 25	23 24	20 16	8 4	6 11	
W 5	22 17	11 39	5 3	23 23	0 59	12 25	1 55	12 49	1 17	12 9	1 5	11 29	2 17	23 2	0 23	20 43	0 32	16 57	6 27	23 25	23 24	20 14	8 4	6 10	
T 6	22 25	16 0	4 35	23 40	1 4	12 49	1 55	12 32	1 16	12 13	1 6	11 31	2 17	23 1	0 23	20 43	0 32	16 57	6 27	23 25	23 24	20 12	8 4	6 10	
F 7	22 32	19 33	3 54	23 55	1 10	13 12	1 54	12 15	1 14	12 17	1 6	11 33	2 17	23 1	0 23	20 43	0 32	16 57	6 27	23 25	23 24	20 10	8 4	6 9	
S 8	22 39	22 9	3 3	24 10	1 16	13 36	1 54	11 59	1 13	12 20	1 6	11 35	2 17	23 1	0 23	20 42	0 32	16 57	6 27	23 25	23 24	20 8	8 3	6 9	
S 9	22 45	23 40	2 4	24 23	1 21	13 59	1 53	11 42	1 11	12 24	1 6	11 37	2 17	23 0	0 23	20 42	0 32	16 57	6 27	23 25	23 24	20 7	8 3	6 9	
M10	22 51	24 3	1 0	24 35	1 26	14 21	1 52	11 25	1 10	12 28	1 6	11 39	2 17	23 0	0 23	20 42	0 32	16 57	6 27	23 25	23 24	20 5	8 2	6 8	
T 11	22 56	23 18	0n6	24 45	1 31	14 44	1 51	11 8	1 8	12 31	1 6	11 41	2 17	23 0	0 23	20 41	0 32	16 57	6 27	23 25	23 25	20 3	8 2	6 8	
W12	23 1	21 31	1 11	24 54	1 36	15 6	1 50	10 51	1 7	12 35	1 6	11 42	2 17	22 59	0 23	20 41	0 32	16 57	6 27	23 25	23 25	20 1	8 2	6 7	
T 13	23 6	18 48	2 13	25 2	1 40	15 27	1 49	10 33	1 5	12 39	1 6	11 44	2 18	22 59	0 23	20 41	0 32	16 57	6 27	23 25	23 25	19 59	8 1	6 7	
F 14	23 10	15 20	3 9	25 9	1 45	15 48	1 48	10 16	1 4	12 42	1 6	11 46	2 18	22 58	0 23	20 40	0 32	16 57	6 27	23 25	23 25	19 57	8 1	6 7	
S 15	23 13	11 15	3 58	25 14	1 49	16 9	1 47	9 59	1 3	12 46	1 6	11 48	2 18	22 58	0 23	20 40	0 32	16 57	6 27	23 25	23 25	19 56	8 0	6 6	
S 16	23 16	6 43	4 36	25 17	1 53	16 30	1 45	9 41	1 1	12 49	1 6	11 50	2 18	22 58	0 23	20 40	0 32	16 57	6 27	23 25	23 25	19 54	8 0	6 6	
M17	23 19	1 52	5 3	25 20	1 56	16 50	1 44	9 24	1 0	12 52	1 7	11 51	2 18	22 57	0 23	20 39	0 32	16 57	6 27	23 25	23 25	19 52	7 59	6 6	
T 18	23 21	3n10	5 17	25 21	1 59	17 9	1 43	9 6	0 59	12 56	1 7	11 53	2 18	22 57	0 23	20 39	0 32	16 57	6 27	23 25	23 25	19 50	7 59	6 5	
W19	23 23	8 11	5 15	25 20	2 2	17 29	1 41	8 49	0 57	12 59	1 7	11 55	2 19	22 57	0 23	20 39	0 32	16 57	6 27	23 25	23 25	19 48	7 58	6 5	
T 20	23 24	13 1	4 58	25 18	2 5	17 47	1 39	8 31	0 56	13 2	1 7	11 56	2 19	22 56	0 23	20 38	0 32	16 57	6 27	23 25	23 25	19 46	7 57	6 4	
F 21	23 25	17 22	4 24	25 15	2 7	18 6	1 38	8 13	0 54	13 6	1 7	11 58	2 19	22 56	0 23	20 38	0 32	16 57	6 27	23 25	23 25	19 44	7 57	6 4	
S 22	23 25	20 54	3 33	25 10	2 9	18 24	1 36	7 56	0 53	13 9	1 7	11 59	2 19	22 55	0 23	20 38	0 32	16 58	6 27	23 25	23 25	19 42	7 56	6 4	
S 23	23 25	23 16	2 27	25 3	2 11	18 41	1 34	7 38	0 52	13 12	1 7	12 1	2 19	22 55	0 23	20 37	0 32	16 58	6 27	23 25	23 25	19 41	7 56	6 3	
M24	23 24	24 4	1 10	24 55	2 12	18 58	1 33	7 20	0 51	13 15	1 7	12 2	2 19	22 55	0 23	20 37	0 31	16 58	6 27	23 25	23 25	19 39	7 55	6 3	
T 25	23 23	23 9	0s13	24 46	2 13	19 14	1 31	7 2	0 49	13 18	1 7	12 4	2 20	22 54	0 23	20 37	0 31	16 58	6 27	23 25	23 25	19 37	7 54	6 3	
W26	23 22	20 32	1 36	24 35	2 13	19 30	1 29	6 44	0 48	13 21	1 8	12 5	2 20	22 54	0 23	20 36	0 31	16 58	6 27	23 25	23 25	19 35	7 54	6 2	
T 27	23 20	16 29	2 52	24 22	2 13	19 45	1 27	6 26	0 47	13 24	1 8	12 7	2 20	22 53	0 23	20 36	0 31	16 58	6 27	23 25	23 25	19 33	7 53	6 2	
F 28	23 17	11 28	3 55	24 8	2 12	20 0	1 25	6 8	0 45	13 27	1 8	12 8	2 20	22 53	0 23	20 36	0 31	16 58	6 27	23 25	23 25	19 31	7 52	6 2	
S 29	23 14	5 54	4 42	23 53	2 11	20 14	1 23	5 50	0 44	13 30	1 8	12 10	2 20	22 53	0 23	20 35	0 31	16 58	6 27	23 25	23 25	19 29	7 51	6 1	
S 30	23 11	0 10	5 9	23 36	2 9	20 28	1 21	5 32	0 43	13 33	1 8	12 11	2 20	22 52	0 23	20 35	0 31	16 58	6 27	23 25	23 25	19 27	7 51	6 1	
M31	23s 7	5s24	5s18	23s18	2s 7	20s41	1n18	5s13	0s42	13s36	1n 8	12s12	2n21	22s52	0s23	20s34	0n31	16n58	6s27	23s25	23s25	19s25	7s50	6n 1	