Astrodienst Ephemeris Tables

for the year 1869

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 AG, Dammstr. 23, CH-8702 Zollikon / Zürich, www.astro.com / order@astro.com

ASTRODIENST EPHEMERIS for the year 1869
geocentric

JANUARY 1869 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 42 44	10♑40'45	13♌47	9♑16	9♐30	4♍42	6♈ 6	11♐54	15°R35	14♈32	15°R13	17°D12	18♌42	3♓ 1	26♓ 4	F 1
S 2	6 46 40	11°41'53	28°26	10°53	10°44	4°44	6°13	12° 0	15♋32	14°32	15♉13	17♌12	18°39	3° 7	26° 5	S 2
S 3	6 50 37	12°43'02	12♍57	12°29	11°58	4°46	6°19	12° 7	15°30	14°32	15°12	17°14	18°35	3°14	26° 6	S 3
M 4	6 54 33	13°44'11	27°16	14° 7	13°13	4°47	6°26	12°13	15°27	14°33	15°12	17°15	18°32	3°20	26° 8	M 4
T 5	6 58 30	14°45'20	11♎20	15°44	14°27	4°R47	6°33	12°19	15°24	14°33	15°11	17°R16	18°29	3°27	26°10	T 5
W 6	7 2 26	15°46'29	25° 9	17°22	15°41	4°46	6°40	12°26	15°22	14°34	15°11	17°16	18°26	3°34	26°11	W 6
T 7	7 6 23	16°47'39	8♏42	19° 1	16°56	4°45	6°48	12°32	15°19	14°34	15°10	17°14	18°23	3°40	26°13	T 7
F 8	7 10 20	17°48'48	22° 1	20°40	18°10	4°43	6°55	12°38	15°17	14°34	15°10	17°11	18°20	3°47	26°15	F 8
S 9	7 14 16	18°49'58	5♐ 6	22°19	19°24	4°40	7° 3	12°45	15°14	14°35	15° 9	17° 6	18°16	3°54	26°16	S 9
S 10	7 18 13	19°51'08	17°57	23°59	20°39	4°36	7°10	12°51	15°11	14°35	15° 9	17° 2	18°13	4° 0	26°18	S 10
M11	7 22 9	20°52'17	0♑36	25°39	21°53	4°31	7°18	12°57	15° 9	14°36	15° 8	16°57	18°10	4° 7	26°20	M11
T 12	7 26 6	21°53'26	13° 2	27°20	23° 8	4°26	7°26	13° 3	15° 6	14°37	15° 8	16°53	18° 7	4°14	26°22	T 12
W13	7 30 2	22°54'35	25°17	29° 1	24°22	4°19	7°35	13° 9	15° 4	14°37	15° 8	16°50	18° 4	4°20	26°24	W13
T 14	7 33 59	23°55'43	7♒22	0♒42	25°37	4°12	7°43	13°15	15° 1	14°38	15° 7	16°48	18° 1	4°27	26°26	T 14
F 15	7 37 55	24°56'50	19°19	2°24	26°51	4° 4	7°52	13°21	14°59	14°39	15° 7	16°D48	17°57	4°34	26°28	F 15
S 16	7 41 52	25°57'57	1♓ 9	4° 6	28° 6	3°56	8° 0	13°27	14°56	14°39	15° 7	16°49	17°54	4°40	26°30	S 16
S 17	7 45 49	26°59'03	12°56	5°48	29°20	3°46	8° 9	13°33	14°53	14°40	15° 6	16°50	17°51	4°47	26°33	S 17
M18	7 49 45	28° 0'09	24°44	7°30	0♑35	3°36	8°18	13°38	14°51	14°41	15° 6	16°52	17°48	4°54	26°35	M18
T 19	7 53 42	29° 1'13	6♈36	9°12	1°49	3°25	8°27	13°44	14°48	14°42	15° 6	16°53	17°45	5° 0	26°37	T 19
W20	7 57 38	0♒ 2'17	18°36	10°55	3° 4	3°13	8°36	13°50	14°46	14°43	15° 6	16°55	17°41	5° 7	26°39	W20
T 21	8 1 35	1° 3'19	0♉51	12°37	4°18	3° 0	8°46	13°55	14°43	14°43	15° 6	16°R55	17°38	5°14	26°42	T 21
F 22	8 5 31	2° 4'21	13°24	14°19	5°33	2°47	8°55	14° 1	14°41	14°44	15° 6	16°55	17°35	5°20	26°44	F 22
S 23	8 9 28	3° 5'21	26°19	16° 0	6°48	2°32	9° 5	14° 6	14°39	14°45	15° 5	16°54	17°32	5°27	26°47	S 23
S 24	8 13 24	4° 6'21	9♊40	17°41	8° 2	2°18	9°14	14°12	14°36	14°46	15° 5	16°52	17°29	5°33	26°49	S 24
M25	8 17 21	5° 7'19	23°29	19°21	9°17	2° 2	9°24	14°17	14°34	14°47	15° 5	16°51	17°26	5°40	26°52	M25
T 26	8 21 18	6° 8'17	7♋44	20°59	10°31	1°46	9°34	14°22	14°31	14°48	15° 5	16°49	17°22	5°47	26°54	T 26
W27	8 25 14	7° 9'13	22°22	22°36	11°46	1°29	9°44	14°28	14°29	14°49	15° 5	16°48	17°19	5°53	26°57	W27
T 28	8 29 11	8°10'08	7♌17	24°10	13° 1	1°11	9°54	14°33	14°27	14°51	15° 5	16°47	17°16	6° 0	26°59	T 28
F 29	8 33 7	9°11'02	22°22	25°43	14°15	0°53	10° 5	14°38	14°24	14°52	15°D 5	16°D47	17°13	6° 7	27° 2	F 29
S 30	8 37 4	10°11'55	7♍27	27°12	15°30	0°34	10°15	14°43	14°22	14°53	15° 5	16°48	17°10	6°13	27° 5	S 30
S 31	8 41 0	11♒12'48	22♍23	28♒37	16♑45	0♍14	10♈26	14♐48	14♋20	14♈54	15♉ 5	16♌48	17♌ 7	6♓20	27♓ 7	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	23s 1	16n24	0s19	24s49	1s42	20s30	1n24	13n 0	3n26	1n14	1s18	20s40	1n35	22n58	0n26	4n14	1s38	1n35	15s28	15n41	15n14	11s36	1n35	3n26
S 2	22 56	12 59	1n 1	24 46	1 46	20 43	1 22	13 1	3 29	1 17	1 18	20 41	1 35	22 59	0 26	4 14	1 38	1 36	15 27	15 41	15 15	11 34	1 36	3 26
S 3	22 51	8 48	2 16	24 41	1 49	20 55	1 20	13 2	3 31	1 20	1 18	20 42	1 35	22 59	0 26	4 14	1 38	1 36	15 27	15 41	15 16	11 33	1 36	3 26
M 4	22 45	4 10	3 22	24 34	1 52	21 7	1 17	13 4	3 33	1 22	1 17	20 42	1 35	22 59	0 26	4 14	1 38	1 36	15 27	15 40	15 17	11 31	1 36	3 25
T 5	22 38	0s35	4 14	24 26	1 55	21 18	1 15	13 6	3 35	1 25	1 17	20 43	1 35	23 0	0 26	4 14	1 38	1 36	15 26	15 40	15 18	11 29	1 37	3 25
W 6	22 31	5 14	4 50	24 16	1 58	21 29	1 13	13 8	3 37	1 28	1 17	20 44	1 35	23 0	0 26	4 14	1 38	1 36	15 26	15 40	15 19	11 28	1 37	3 25
T 7	22 24	9 31	5 10	24 5	2 0	21 39	1 10	13 11	3 40	1 32	1 17	20 45	1 35	23 0	0 26	4 15	1 38	1 36	15 26	15 41	15 20	11 26	1 38	3 25
F 8	22 16	13 15	5 12	23 53	2 2	21 48	1 8	13 14	3 42	1 35	1 16	20 46	1 35	23 1	0 26	4 15	1 38	1 36	15 25	15 42	15 21	11 24	1 38	3 24
S 9	22 8	16 16	4 58	23 38	2 4	21 57	1 5	13 17	3 44	1 38	1 16	20 46	1 35	23 1	0 26	4 15	1 38	1 37	15 25	15 43	15 22	11 23	1 39	3 24
S 10	21 59	18 26	4 29	23 23	2 5	22 5	1 3	13 20	3 46	1 41	1 16	20 47	1 35	23 1	0 26	4 15	1 38	1 37	15 25	15 45	15 23	11 21	1 39	3 24
M11	21 50	19 40	3 47	23 5	2 6	22 12	1 0	13 24	3 48	1 45	1 16	20 48	1 35	23 1	0 26	4 16	1 38	1 37	15 25	15 46	15 24	11 20	1 40	3 24
T 12	21 40	19 54	2 55	22 46	2 6	22 19	0 57	13 28	3 51	1 48	1 15	20 48	1 35	23 2	0 26	4 16	1 37	1 37	15 24	15 47	15 25	11 18	1 40	3 24
W13	21 30	19 12	1 56	22 26	2 6	22 25	0 55	13 32	3 53	1 52	1 15	20 49	1 35	23 2	0 26	4 16	1 37	1 37	15 24	15 48	15 26	11 16	1 41	3 23
T 14	21 20	17 36	0 52	22 4	2 6	22 31	0 52	13 37	3 55	1 55	1 15	20 50	1 35	23 2	0 26	4 16	1 37	1 38	15 24	15 49	15 27	11 15	1 41	3 23
F 15	21 9	15 15	0s14	21 40	2 5	22 36	0 49	13 42	3 57	1 59	1 15	20 51	1 35	23 3	0 26	4 17	1 37	1 38	15 23	15 49	15 28	11 13	1 42	3 23
S 16	20 58	12 18	1 19	21 15	2 3	22 40	0 47	13 47	3 59	2 2	1 14	20 51	1 35	23 3	0 26	4 17	1 37	1 38	15 23	15 48	15 29	11 11	1 43	3 23
S 17	20 46	8 51	2 20	20 48	2 1	22 43	0 44	13 52	4 1	2 6	1 14	20 52	1 35	23 3	0 26	4 17	1 37	1 38	15 23	15 48	15 29	11 10	1 43	3 22
M18	20 34	5 4	3 15	20 19	1 59	22 46	0 41	13 58	4 3	2 10	1 14	20 53	1 35	23 3	0 26	4 18	1 37	1 39	15 22	15 47	15 30	11 8	1 44	3 22
T 19	20 22	1 5	4 2	19 49	1 56	22 48	0 38	14 4	4 5	2 14	1 14	20 53	1 35	23 4	0 26	4 18	1 37	1 39	15 22	15 47	15 31	11 6	1 45	3 22
W20	20 9	2n59	4 39	19 18	1 52	22 49	0 36	14 10	4 7	2 17	1 13	20 54	1 35	23 4	0 26	4 18	1 37	1 39	15 22	15 47	15 32	11 5	1 45	3 22
T 21	19 56	7 1	5 5	18 45	1 48	22 50	0 33	14 16	4 9	2 21	1 13	20 54	1 35	23 4	0 26	4 19	1 37	1 39	15 21	15 47	15 33	11 3	1 46	3 22
F 22	19 43	10 50	5 17	18 11	1 43	22 50	0 30	14 23	4 11	2 25	1 13	20 55	1 35	23 5	0 26	4 19	1 37	1 40	15 21	15 47	15 34	11 1	1 47	3 21
S 23	19 29	14 16	5 13	17 36	1 37	22 50	0 27	14 30	4 12	2 29	1 13	20 56	1 36	23 5	0 26	4 20	1 37	1 40	15 21	15 47	15 35	11 0	1 48	3 21
S 24	19 15	17 6	4 52	16 59	1 31	22 48	0 25	14 37	4 14	2 33	1 12	20 56	1 36	23 5	0 26	4 20	1 37	1 40	15 20	15 47	15 36	10 58	1 48	3 21
M25	19 0	19 3	4 15	16 21	1 24	22 46	0 22	14 44	4 16	2 37	1 12	20 57	1 36	23 5	0 26	4 21	1 37	1 41	15 20	15 48	15 37	10 56	1 49	3 21
T 26	18 45	19 54	3 20	15 42	1 16	22 43	0 19	14 51	4 17	2 41	1 12	20 57	1 36	23 6	0 26	4 21	1 37	1 41	15 20	15 48	15 38	10 55	1 50	3 20
W27	18 30	19 26	2 12	15 3	1 7	22 40	0 16	14 59	4 19	2 46	1 12	20 58	1 36	23 6	0 26	4 21	1 37	1 41	15 19	15 49	15 39	10 53	1 51	3 20
T 28	18 14	17 37	0 53	14 23	0 58	22 36	0 13	15 7	4 20	2 50	1 12	20 58	1 36	23 6	0 26	4 22	1 37	1 42	15 19	15 49	15 40	10 51	1 52	3 20
F 29	17 58	14 33	0n31	13 42	0 47	22 31	0 11	15 15	4 22	2 54	1 11	20 59	1 36	23 6	0 26	4 22	1 37	1 42	15 19	15 49	15 41	10 50	1 53	3 20
S 30	17 42	10 31	1 52	13 1	0 36	22 25	0 8	15 23	4 23	2 58	1 11	20 59	1 36	23 7	0 26	4 23	1 37	1 42	15 18	15 49	15 42	10 48	1 53	3 20
S 31	17s25	5n52	3n 5	12s20	0s24	22s19	0n 5	15n31	4n24	3n 3	1s11	21s 0	1n36	23n 7	0n26	4n23	1s37	1n43	15s18	15n49	15n43	10s46	1n54	3n19

Julian Day Number = 2403698.5, Delta T = 3.55 sec
Ecliptic obliquity = 23°27'15, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°54'39, Lahiri = 22°01'40

ASTRODIENST EPHEMERIS for the year 1869
geocentric

FEBRUARY 1869 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 44 57	12♒13'39	7♎ 4	29♒59	17♑59	29°R54	10♈36	14♐53	14°R18	14♈55	15♉ 5	16♌49	17♌ 3	6♓27	27♓10	M 1
T 2	8 48 53	13°14'29	21°24	1♓15	19°14	29♌33	10°47	14°58	14♋15	14°57	15° 5	16°49	17° 0	6°33	27°13	T 2
W 3	8 52 50	14°15'19	5♏21	2°26	20°28	29°12	10°58	15° 2	14°13	14°58	15° 5	16°49	16°57	6°40	27°16	W 3
T 4	8 56 47	15°16'08	18°56	3°31	21°43	28°51	11° 9	15° 7	14°11	14°59	15° 5	16°R49	16°54	6°47	27°19	T 4
F 5	9 0 43	16°16'56	2♐ 8	4°28	22°58	28°29	11°20	15°12	14° 9	15° 1	15° 6	16°D49	16°51	6°53	27°22	F 5
S 6	9 4 40	17°17'43	15° 0	5°17	24°13	28° 6	11°31	15°16	14° 7	15° 2	15° 6	16°49	16°47	7° 0	27°25	S 6
S 7	9 8 36	18°18'29	27°36	5°58	25°27	27°43	11°43	15°21	14° 5	15° 3	15° 6	16°49	16°44	7° 7	27°28	S 7
M 8	9 12 33	19°19'14	9♑58	6°29	26°42	27°20	11°54	15°25	14° 3	15° 5	15° 6	16°50	16°41	7°13	27°31	M 8
T 9	9 16 29	20°19'58	22° 8	6°51	27°57	26°57	12° 6	15°29	14° 1	15° 6	15° 6	16°50	16°38	7°20	27°34	T 9
W10	9 20 26	21°20'40	4♒10	7° 2	29°11	26°33	12°17	15°33	13°59	15° 8	15° 7	16°50	16°35	7°27	27°37	W10
T 11	9 24 22	22°21'22	16° 5	7°R 3	0♒26	26°10	12°29	15°38	13°57	15° 9	15° 7	16°R50	16°32	7°33	27°40	T 11
F 12	9 28 19	23°22'01	27°55	6°52	1°41	25°46	12°41	15°42	13°55	15°11	15° 7	16°50	16°28	7°40	27°43	F 12
S 13	9 32 16	24°22'40	9♓43	6°32	2°55	25°22	12°52	15°46	13°53	15°12	15° 8	16°50	16°25	7°47	27°46	S 13
S 14	9 36 12	25°23'16	21°31	6° 1	4°10	24°58	13° 4	15°49	13°52	15°14	15° 8	16°49	16°22	7°53	27°49	S 14
M15	9 40 9	26°23'51	3♈21	5°22	5°25	24°34	13°16	15°53	13°50	15°16	15° 8	16°47	16°19	8° 0	27°53	M15
T 16	9 44 5	27°24'25	15°16	4°34	6°39	24°10	13°29	15°57	13°48	15°17	15° 9	16°46	16°16	8° 7	27°56	T 16
W17	9 48 2	28°24'57	27°19	3°39	7°54	23°46	13°41	16° 1	13°47	15°19	15° 9	16°44	16°13	8°13	27°59	W17
T 18	9 51 58	29°25'27	9♉33	2°39	9° 9	23°22	13°53	16° 4	13°45	15°21	15°10	16°43	16° 9	8°20	28° 2	T 18
F 19	9 55 55	0♓25'55	22° 3	1°35	10°23	22°59	14° 5	16° 8	13°43	15°22	15°10	16°42	16° 6	8°26	28° 6	F 19
S 20	9 59 51	1°26'21	4♊52	0°29	11°38	22°36	14°18	16°11	13°42	15°24	15°10	16°D42	16° 3	8°33	28° 9	S 20
S 21	10 3 48	2°26'45	18° 4	29♒22	12°53	22°13	14°30	16°14	13°40	15°26	15°11	16°43	16° 0	8°40	28°12	S 21
M22	10 7 45	3°27'08	1♋42	28°17	14° 7	21°50	14°43	16°18	13°39	15°28	15°12	16°44	15°57	8°46	28°16	M22
T 23	10 11 41	4°27'28	15°46	27°15	15°22	21°28	14°56	16°21	13°38	15°29	15°12	16°45	15°53	8°53	28°19	T 23
W24	10 15 38	5°27'47	0♌16	26°16	16°37	21° 6	15° 8	16°24	13°36	15°31	15°13	16°46	15°50	9° 0	28°23	W24
T 25	10 19 34	6°28'03	15° 9	25°23	17°51	20°45	15°21	16°27	13°35	15°33	15°13	16°R47	15°47	9° 6	28°26	T 25
F 26	10 23 31	7°28'18	0♍18	24°35	19° 6	20°24	15°34	16°29	13°34	15°35	15°14	16°46	15°44	9°13	28°29	F 26
S 27	10 27 27	8°28'31	15°34	23°54	20°21	20° 4	15°47	16°32	13°33	15°37	15°14	16°45	15°41	9°20	28°33	S 27
S 28	10 31 24	9♓28'42	0♎46	23♒19	21♒35	19♌44	16♈ 0	16♐35	13♋31	15♈39	15♉15	16♌42	15♌38	9♓26	28♓36	S 28

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	17s 8	0n57	4n 5	11s40	0s12	22s12	0n 2	15n39	4n25	3n 7	1s11	21s 0	1n36	23n 7	0n26	4n24	1s36	1n43	15s18	15n48	15n44	10s45	1n55	3n19
T 2	16 51	3s54	4 47	11 0	0n 2	22 5	0s 0	15 47	4 26	3 11	1 11	21 1	1 36	23 7	0 26	4 24	1 36	1 43	15 17	15 48	15 45	10 43	1 56	3 19
W 3	16 34	8 25	5 12	10 22	0 16	21 57	0 3	15 56	4 27	3 16	1 10	21 1	1 36	23 8	0 26	4 25	1 36	1 44	15 17	15 48	15 46	10 41	1 57	3 19
T 4	16 16	12 22	5 18	9 45	0 31	21 48	0 6	16 4	4 28	3 20	1 10	21 2	1 36	23 8	0 26	4 26	1 36	1 44	15 17	15 48	15 47	10 39	1 58	3 19
F 5	15 58	15 35	5 7	9 9	0 47	21 38	0 8	16 13	4 29	3 25	1 10	21 2	1 36	23 8	0 26	4 26	1 36	1 44	15 16	15 48	15 48	10 38	1 59	3 19
S 6	15 40	17 58	4 41	8 36	1 3	21 28	0 11	16 21	4 30	3 29	1 10	21 2	1 37	23 8	0 26	4 27	1 36	1 45	15 16	15 48	15 49	10 36	2 0	3 18
S 7	15 21	19 25	4 1	8 6	1 19	21 17	0 14	16 30	4 30	3 34	1 10	21 3	1 37	23 8	0 26	4 27	1 36	1 45	15 16	15 48	15 50	10 34	2 1	3 18
M 8	15 2	19 54	3 11	7 40	1 35	21 6	0 16	16 38	4 31	3 39	1 9	21 3	1 37	23 9	0 26	4 28	1 36	1 45	15 15	15 48	15 51	10 33	2 2	3 18
T 9	14 43	19 27	2 13	7 16	1 52	20 54	0 19	16 47	4 31	3 43	1 9	21 4	1 37	23 9	0 26	4 28	1 36	1 46	15 15	15 48	15 52	10 31	2 3	3 18
W10	14 24	18 6	1 10	6 57	2 8	20 41	0 21	16 55	4 31	3 48	1 9	21 4	1 37	23 9	0 26	4 29	1 36	1 46	15 15	15 48	15 53	10 29	2 4	3 18
T 11	14 4	15 58	0 4	6 42	2 24	20 28	0 24	17 3	4 31	3 53	1 9	21 4	1 37	23 9	0 26	4 30	1 36	1 47	15 14	15 48	15 54	10 27	2 5	3 17
F 12	13 44	13 10	1s 1	6 32	2 39	20 14	0 27	17 12	4 31	3 57	1 9	21 5	1 37	23 9	0 26	4 30	1 36	1 47	15 14	15 48	15 55	10 26	2 7	3 17
S 13	13 24	9 50	2 4	6 26	2 53	19 59	0 29	17 20	4 31	4 2	1 9	21 5	1 37	23 10	0 26	4 31	1 36	1 47	15 14	15 48	15 56	10 24	2 8	3 17
S 14	13 4	6 8	3 1	6 25	3 6	19 44	0 31	17 28	4 31	4 7	1 8	21 5	1 37	23 10	0 26	4 32	1 36	1 48	15 13	15 48	15 56	10 22	2 9	3 17
M15	12 44	2 12	3 51	6 29	3 17	19 28	0 34	17 36	4 31	4 12	1 8	21 6	1 37	23 10	0 26	4 32	1 36	1 48	15 13	15 49	15 57	10 21	2 10	3 17
T 16	12 23	1n51	4 31	6 38	3 27	19 12	0 36	17 43	4 31	4 17	1 8	21 6	1 37	23 10	0 26	4 33	1 36	1 49	15 13	15 49	15 58	10 19	2 11	3 17
W17	12 2	5 52	4 59	6 50	3 35	18 55	0 38	17 51	4 30	4 21	1 8	21 6	1 37	23 10	0 26	4 34	1 36	1 49	15 12	15 50	15 59	10 17	2 12	3 17
T 18	11 41	9 42	5 15	7 7	3 40	18 38	0 41	17 58	4 29	4 26	1 8	21 6	1 38	23 10	0 26	4 34	1 36	1 50	15 12	15 50	16 0	10 15	2 13	3 16
F 19	11 20	13 12	5 16	7 27	3 43	18 20	0 43	18 5	4 29	4 31	1 8	21 7	1 38	23 11	0 26	4 35	1 36	1 50	15 12	15 50	16 1	10 14	2 15	3 16
S 20	10 58	16 11	5 1	7 49	3 44	18 2	0 45	18 12	4 28	4 36	1 7	21 7	1 38	23 11	0 26	4 36	1 36	1 50	15 11	15 50	16 2	10 12	2 16	3 16
S 21	10 37	18 25	4 31	8 13	3 43	17 43	0 47	18 19	4 27	4 41	1 7	21 7	1 38	23 11	0 26	4 36	1 36	1 51	15 11	15 50	16 3	10 10	2 17	3 16
M22	10 15	19 42	3 45	8 39	3 39	17 23	0 49	18 26	4 26	4 46	1 7	21 7	1 38	23 11	0 26	4 37	1 36	1 51	15 11	15 50	16 4	10 8	2 18	3 16
T 23	9 53	19 49	2 43	9 6	3 33	17 4	0 52	18 32	4 25	4 51	1 7	21 8	1 38	23 11	0 26	4 38	1 36	1 52	15 10	15 50	16 5	10 7	2 19	3 16
W24	9 31	18 38	1 30	9 32	3 26	16 43	0 54	18 38	4 24	4 56	1 7	21 8	1 38	23 11	0 26	4 39	1 36	1 52	15 10	15 49	16 6	10 5	2 21	3 16
T 25	9 9	16 9	0 9	9 59	3 17	16 22	0 55	18 43	4 22	5 1	1 7	21 8	1 38	23 11	0 26	4 39	1 36	1 53	15 10	15 49	16 7	10 3	2 22	3 15
F 26	8 46	12 32	1n14	10 24	3 7	16 1	0 57	18 49	4 21	5 7	1 7	21 8	1 38	23 11	0 26	4 40	1 36	1 53	15 9	15 49	16 8	10 1	2 23	3 15
S 27	8 24	8 2	2 32	10 48	2 55	15 39	0 59	18 54	4 19	5 12	1 6	21 8	1 38	23 12	0 26	4 41	1 36	1 54	15 9	15 50	16 9	10 0	2 24	3 15
S 28	8s 1	3n 3	3n40	11s11	2n43	15s17	1s 1	18n59	4n18	5n17	1s 6	21s 9	1n39	23n12	0n26	4n42	1s35	1n54	15s 9	15n50	16n10	9s58	2n26	3n15

Julian Day Number = 2403729.5, Delta T = 3.44 sec
Ecliptic obliquity = 23°27'16, Nutation = - 0°00'10, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°54'44, Lahiri = 22°01'44

ASTRODIENST EPHEMERIS for the year 1869
geocentric

MARCH 1869 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	10 35 20	10♓28'51	15♎46	22°R52	22♒50	19°R25	16♈13	16♐37	13°R30	15♈41	15♉16	16°R39	15♌34	9♓33	28♓40	M 1
T 2	10 39 17	11°28'59	0♏25	22♒32	24° 4	19♌ 6	16°26	16°40	13♋29	15°42	15°16	16♌36	15°31	9°40	28°43	T 2
W 3	10 43 13	12°29'05	14°37	22°18	25°19	18°48	16°39	16°42	13°28	15°44	15°17	16°33	15°28	9°46	28°47	W 3
T 4	10 47 10	13°29'10	28°21	22°12	26°34	18°31	16°53	16°45	13°27	15°46	15°18	16°30	15°25	9°53	28°50	T 4
F 5	10 51 7	14°29'13	11♐37	22°D12	27°48	18°14	17° 6	16°47	13°26	15°48	15°18	16°D29	15°22	10° 0	28°54	F 5
S 6	10 55 3	15°29'15	24°29	22°18	29° 3	17°58	17°19	16°49	13°26	15°50	15°19	16°30	15°18	10° 6	28°58	S 6
S 7	10 59 0	16°29'15	6♑59	22°30	0♓17	17°43	17°33	16°51	13°25	15°52	15°20	16°31	15°15	10°13	29° 1	S 7
M 8	11 2 56	17°29'13	19°13	22°48	1°32	17°28	17°46	16°53	13°24	15°54	15°21	16°33	15°12	10°20	29° 5	M 8
T 9	11 6 53	18°29'10	1♒14	23°11	2°47	17°14	18° 0	16°55	13°23	15°57	15°22	16°34	15° 9	10°26	29° 8	T 9
W10	11 10 49	19°29'05	13° 7	23°39	4° 1	17° 1	18°13	16°56	13°23	15°59	15°22	16°R35	15° 6	10°33	29°12	W10
T 11	11 14 46	20°28'58	24°56	24°11	5°16	16°49	18°27	16°58	13°22	16° 1	15°23	16°35	15° 3	10°40	29°16	T 11
F 12	11 18 42	21°28'49	6♓43	24°48	6°30	16°37	18°40	16°59	13°22	16° 3	15°24	16°33	14°59	10°46	29°19	F 12
S 13	11 22 39	22°28'38	18°31	25°29	7°45	16°26	18°54	17° 1	13°21	16° 5	15°25	16°29	14°56	10°53	29°23	S 13
S 14	11 26 36	23°28'26	0♈22	26°13	8°59	16°16	19° 8	17° 2	13°21	16° 7	15°26	16°24	14°53	11° 0	29°26	S 14
M15	11 30 32	24°28'11	12°18	27° 2	10°14	16° 7	19°22	17° 3	13°20	16° 9	15°27	16°17	14°50	11° 6	29°30	M15
T 16	11 34 29	25°27'54	24°21	27°53	11°29	15°58	19°36	17° 4	13°20	16°11	15°28	16°10	14°47	11°13	29°34	T 16
W17	11 38 25	26°27'35	6♉32	28°48	12°43	15°51	19°49	17° 5	13°20	16°13	15°29	16° 2	14°44	11°20	29°37	W17
T 18	11 42 22	27°27'14	18°54	29°45	13°58	15°44	20° 3	17° 6	13°20	16°16	15°29	15°56	14°40	11°26	29°41	T 18
F 19	11 46 18	28°26'51	1♊28	0♓46	15°12	15°38	20°17	17° 7	13°19	16°18	15°30	15°51	14°37	11°33	29°45	F 19
S 20	11 50 15	29°26'25	14°17	1°49	16°27	15°32	20°31	17° 8	13°19	16°20	15°31	15°47	14°34	11°40	29°48	S 20
S 21	11 54 11	0♈25'58	27°24	2°54	17°41	15°28	20°45	17° 8	13°D19	16°22	15°32	15°D46	14°31	11°46	29°52	S 21
M22	11 58 8	1°25'28	10♋52	4° 2	18°55	15°24	20°59	17° 9	13°19	16°24	15°33	15°47	14°28	11°53	29°56	M22
T 23	12 2 5	2°24'55	24°43	5°12	20°10	15°21	21°13	17° 9	13°19	16°27	15°34	15°48	14°24	12° 0	29°59	T 23
W24	12 6 1	3°24'21	8♌57	6°24	21°24	15°19	21°28	17°10	13°19	16°29	15°36	15°R49	14°21	12° 6	0♈ 3	W24
T 25	12 9 58	4°23'43	23°34	7°38	22°39	15°17	21°42	17°10	13°20	16°31	15°37	15°49	14°18	12°13	0° 6	T 25
F 26	12 13 54	5°23'04	8♍30	8°54	23°53	15°D17	21°56	17°10	13°20	16°33	15°38	15°47	14°15	12°20	0°10	F 26
S 27	12 17 51	6°22'22	23°38	10°12	25° 8	15°17	22°10	17°R10	13°20	16°35	15°39	15°42	14°12	12°26	0°14	S 27
S 28	12 21 47	7°21'38	8♎48	11°32	26°22	15°18	22°24	17°10	13°20	16°38	15°40	15°36	14° 9	12°33	0°17	S 28
M29	12 25 44	8°20'53	23°52	12°53	27°36	15°19	22°38	17°10	13°21	16°40	15°41	15°28	14° 5	12°40	0°21	M29
T 30	12 29 40	9°20'05	8♏38	14°16	28°51	15°21	22°53	17° 9	13°21	16°42	15°42	15°20	14° 2	12°46	0°25	T 30
W31	12 33 37	10♈19'15	23♏ 0	15♓41	0♈ 5	15♌24	23♈ 7	17♐ 9	13♋22	16♈44	15♉43	15♌12	13♌59	12♓53	0♈28	W31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	7s39	2s 3	4n30	11s33	2n30	14s54	1s 3	19n 4	4n16	5n22	1s 6	21s 9	1n39	23n12	0n26	4n42	1s35	1n55	15s 8	15n51	16n11	9s56	2n27	3n15
T 2	7 16	6 54	5 2	11 52	2 16	14 31	1 5	19 8	4 15	5 27	1 6	21 9	1 39	23 12	0 26	4 43	1 35	1 55	15 8	15 52	16 12	9 54	2 28	3 15
W 3	6 53	11 13	5 15	12 9	2 2	14 8	1 6	19 12	4 13	5 32	1 6	21 9	1 39	23 12	0 26	4 44	1 35	1 56	15 8	15 53	16 13	9 52	2 30	3 15
T 4	6 30	14 48	5 8	12 25	1 49	13 44	1 8	19 16	4 11	5 37	1 6	21 9	1 39	23 12	0 26	4 45	1 35	1 56	15 7	15 54	16 13	9 51	2 31	3 15
F 5	6 7	17 29	4 45	12 38	1 35	13 20	1 9	19 19	4 9	5 43	1 6	21 9	1 39	23 12	0 26	4 45	1 35	1 56	15 7	15 54	16 14	9 49	2 32	3 14
S 6	5 43	19 12	4 8	12 49	1 21	12 55	1 11	19 22	4 7	5 48	1 5	21 9	1 39	23 12	0 26	4 46	1 35	1 57	15 7	15 54	16 15	9 47	2 33	3 14
S 7	5 20	19 56	3 21	12 58	1 7	12 30	1 12	19 25	4 5	5 53	1 5	21 9	1 39	23 12	0 26	4 47	1 35	1 57	15 7	15 54	16 16	9 45	2 35	3 14
M 8	4 57	19 41	2 25	13 5	0 53	12 5	1 14	19 28	4 3	5 58	1 5	21 9	1 39	23 12	0 26	4 48	1 35	1 58	15 6	15 53	16 17	9 44	2 36	3 14
T 9	4 33	18 33	1 23	13 10	0 40	11 39	1 15	19 30	4 1	6 4	1 5	21 10	1 40	23 12	0 26	4 49	1 35	1 58	15 6	15 53	16 18	9 42	2 37	3 14
W10	4 10	16 35	0 19	13 13	0 27	11 13	1 16	19 32	3 59	6 9	1 5	21 10	1 40	23 12	0 26	4 49	1 35	1 59	15 6	15 52	16 19	9 40	2 39	3 14
T 11	3 46	13 56	0s46	13 14	0 15	10 47	1 17	19 34	3 57	6 14	1 5	21 10	1 40	23 13	0 26	4 50	1 35	1 59	15 5	15 53	16 20	9 38	2 40	3 14
F 12	3 23	10 43	1 48	13 13	0 3	10 21	1 18	19 35	3 54	6 19	1 5	21 10	1 40	23 13	0 26	4 51	1 35	2 0	15 5	15 53	16 21	9 36	2 42	3 14
S 13	2 59	7 5	2 45	13 10	0s 9	9 54	1 20	19 37	3 52	6 25	1 5	21 10	1 40	23 13	0 26	4 52	1 35	2 0	15 5	15 54	16 22	9 35	2 43	3 14
S 14	2 36	3 9	3 36	13 6	0 20	9 27	1 21	19 37	3 50	6 30	1 5	21 10	1 40	23 13	0 26	4 53	1 35	2 1	15 5	15 56	16 23	9 33	2 44	3 14
M15	2 12	0n55	4 18	13 0	0 31	9 0	1 21	19 38	3 48	6 35	1 4	21 10	1 40	23 13	0 26	4 54	1 35	2 1	15 4	15 58	16 24	9 31	2 46	3 14
T 16	1 48	4 59	4 48	12 52	0 41	8 32	1 22	19 38	3 45	6 41	1 4	21 10	1 40	23 13	0 26	4 54	1 35	2 2	15 4	16 0	16 25	9 29	2 47	3 13
W17	1 25	8 54	5 6	12 42	0 51	8 4	1 23	19 38	3 43	6 46	1 4	21 10	1 40	23 13	0 26	4 55	1 35	2 2	15 4	16 2	16 26	9 27	2 48	3 13
T 18	1 1	12 29	5 9	12 31	1 0	7 36	1 24	19 38	3 41	6 51	1 4	21 10	1 41	23 13	0 26	4 56	1 35	2 3	15 4	16 4	16 27	9 26	2 50	3 13
F 19	0 37	15 36	4 58	12 18	1 9	7 8	1 25	19 38	3 38	6 57	1 4	21 10	1 41	23 13	0 26	4 57	1 35	2 3	15 3	16 6	16 27	9 24	2 51	3 13
S 20	0 13	18 1	4 33	12 3	1 18	6 40	1 25	19 37	3 36	7 2	1 4	21 10	1 41	23 13	0 26	4 58	1 35	2 4	15 3	16 7	16 28	9 22	2 53	3 13
S 21	0n10	19 34	3 52	11 47	1 26	6 11	1 26	19 36	3 33	7 7	1 4	21 10	1 41	23 13	0 26	4 59	1 35	2 4	15 3	16 7	16 29	9 20	2 54	3 13
M22	0 34	20 3	2 58	11 29	1 33	5 42	1 26	19 35	3 31	7 13	1 4	21 10	1 41	23 13	0 26	5 0	1 35	2 5	15 3	16 7	16 30	9 18	2 55	3 13
T 23	0 58	19 22	1 52	11 10	1 40	5 14	1 27	19 34	3 29	7 18	1 4	21 9	1 41	23 13	0 26	5 0	1 35	2 5	15 2	16 7	16 31	9 16	2 57	3 13
W24	1 21	17 26	0 37	10 50	1 47	4 45	1 27	19 32	3 26	7 23	1 4	21 9	1 41	23 13	0 25	5 1	1 35	2 6	15 2	16 6	16 32	9 15	2 58	3 13
T 25	1 45	14 20	0n42	10 28	1 53	4 15	1 27	19 30	3 24	7 29	1 4	21 9	1 41	23 13	0 25	5 2	1 35	2 6	15 2	16 6	16 33	9 13	3 0	3 13
F 26	2 8	10 14	1 59	10 4	1 59	3 46	1 28	19 28	3 21	7 34	1 3	21 9	1 41	23 13	0 25	5 3	1 35	2 7	15 2	16 7	16 34	9 11	3 1	3 13
S 27	2 32	5 26	3 9	9 40	2 4	3 17	1 28	19 26	3 19	7 39	1 3	21 9	1 41	23 13	0 25	5 4	1 35	2 7	15 1	16 8	16 35	9 9	3 2	3 13
S 28	2 55	0 17	4 6	9 13	2 8	2 47	1 28	19 23	3 17	7 45	1 3	21 9	1 42	23 12	0 25	5 5	1 35	2 8	15 1	16 10	16 36	9 7	3 4	3 13
M29	3 19	4s51	4 45	8 46	2 13	2 18	1 28	19 21	3 14	7 50	1 3	21 9	1 42	23 12	0 25	5 6	1 35	2 8	15 1	16 12	16 37	9 5	3 5	3 13
T 30	3 42	9 35	5 4	8 17	2 16	1 48	1 28	19 18	3 12	7 55	1 3	21 9	1 42	23 12	0 25	5 6	1 35	2 9	15 1	16 15	16 38	9 4	3 7	3 13
W31	4n 5	13s38	5n 4	7s47	2s19	1s18	1s28	19n15	3n10	8n 1	1s 3	21s 9	1n42	23n12	0n25	5n 7	1s35	2n 9	15s 1	16n17	16n39	9s 2	3n 8	3n13

Julian Day Number = 2403757.5, Delta T = 3.35 sec
Ecliptic obliquity = 23°27'17, Nutation = - 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°54'48, Lahiri = 22°01'48

ASTRODIENST EPHEMERIS for the year 1869
geocentric

APRIL 1869 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	12 37 34	11♈18'24	6♐54	17♓ 8	1♈19	15♌28	23♈21	17°R 9	13♋22	16♈47	15♉44	15°R 5	13♌56	12♓59	0♈32	T 1
F 2	12 41 30	12°17'31	20°18	18°36	2°34	15°32	23°36	17♐ 8	13°23	16°49	15°45	15♌ 1	13°53	13° 6	0°35	F 2
S 3	12 45 27	13°16'36	3♑14	20° 6	3°48	15°37	23°50	17° 7	13°23	16°51	15°47	14°58	13°50	13°13	0°39	S 3
S 4	12 49 23	14°15'39	15°47	21°37	5° 2	15°42	24° 4	17° 6	13°24	16°54	15°48	14°D58	13°46	13°19	0°43	S 4
M 5	12 53 20	15°14'41	28° 0	23°10	6°17	15°49	24°19	17° 6	13°25	16°56	15°49	14°58	13°43	13°26	0°46	M 5
T 6	12 57 16	16°13'40	9♒59	24°45	7°31	15°56	24°33	17° 5	13°26	16°58	15°50	14°R59	13°40	13°33	0°50	T 6
W 7	13 1 13	17°12'38	21°50	26°21	8°45	16° 3	24°47	17° 4	13°27	17° 0	15°51	14°59	13°37	13°39	0°53	W 7
T 8	13 5 9	18°11'34	3♓37	27°58	10° 0	16°11	25° 2	17° 2	13°27	17° 3	15°53	14°57	13°34	13°46	0°57	T 8
F 9	13 9 6	19°10'29	15°24	29°37	11°14	16°20	25°16	17° 1	13°28	17° 5	15°54	14°53	13°30	13°53	1° 0	F 9
S 10	13 13 2	20° 9'21	27°14	1♈18	12°28	16°29	25°31	17° 0	13°29	17° 7	15°55	14°46	13°27	13°59	1° 4	S 10
S 11	13 16 59	21° 8'11	9♈11	3° 0	13°42	16°39	25°45	16°58	13°30	17° 9	15°56	14°36	13°24	14° 6	1° 7	S 11
M12	13 20 56	22° 7'00	21°17	4°44	14°57	16°49	26° 0	16°57	13°32	17°12	15°57	14°25	13°21	14°13	1°11	M12
T 13	13 24 52	23° 5'46	3♉32	6°29	16°11	17° 1	26°14	16°55	13°33	17°14	15°59	14°12	13°18	14°19	1°14	T 13
W14	13 28 49	24° 4'31	15°57	8°16	17°25	17°12	26°28	16°53	13°34	17°16	16° 0	14° 0	13°15	14°26	1°18	W14
T 15	13 32 45	25° 3'13	28°32	10° 4	18°39	17°24	26°43	16°51	13°35	17°18	16° 1	13°48	13°11	14°33	1°21	T 15
F 16	13 36 42	26° 1'54	11♊19	11°54	19°53	17°37	26°57	16°50	13°37	17°21	16° 3	13°39	13° 8	14°39	1°24	F 16
S 17	13 40 38	27° 0'32	24°18	13°46	21° 8	17°50	27°12	16°48	13°38	17°23	16° 4	13°33	13° 5	14°46	1°28	S 17
S 18	13 44 35	27°59'08	7♋31	15°39	22°22	18° 4	27°26	16°45	13°39	17°25	16° 5	13°29	13° 2	14°53	1°31	S 18
M19	13 48 31	28°57'42	20°58	17°34	23°36	18°18	27°41	16°43	13°41	17°27	16° 6	13°27	12°59	14°59	1°34	M19
T 20	13 52 28	29°56'14	4♌42	19°30	24°50	18°33	27°55	16°41	13°42	17°30	16° 8	13°D27	12°55	15° 6	1°38	T 20
W21	13 56 25	0♉54'43	18°44	21°28	26° 4	18°48	28° 9	16°39	13°44	17°32	16° 9	13°R27	12°52	15°13	1°41	W21
T 22	14 0 21	1°53'11	3♍ 4	23°27	27°18	19° 3	28°24	16°36	13°46	17°34	16°10	13°26	12°49	15°19	1°44	T 22
F 23	14 4 18	2°51'36	17°39	25°28	28°32	19°19	28°38	16°34	13°47	17°36	16°12	13°23	12°46	15°26	1°48	F 23
S 24	14 8 14	3°49'59	2♎27	27°31	29°46	19°36	28°53	16°31	13°49	17°38	16°13	13°17	12°43	15°33	1°51	S 24
S 25	14 12 11	4°48'19	17°19	29°34	1♉ 1	19°53	29° 7	16°28	13°51	17°41	16°14	13° 8	12°40	15°39	1°54	S 25
M26	14 16 7	5°46'38	2♏ 8	1♉39	2°15	20°10	29°21	16°26	13°52	17°43	16°16	12°58	12°36	15°46	1°57	M26
T 27	14 20 4	6°44'56	16°46	3°46	3°29	20°28	29°36	16°23	13°54	17°45	16°17	12°46	12°33	15°53	2° 0	T 27
W28	14 24 0	7°43'11	1♐ 4	5°53	4°43	20°46	29°50	16°20	13°56	17°47	16°18	12°35	12°30	15°59	2° 3	W28
T 29	14 27 57	8°41'25	14°57	8° 1	5°57	21° 5	0♉ 5	16°17	13°58	17°49	16°20	12°26	12°27	16° 6	2° 6	T 29
F 30	14 31 54	9♉39'37	28♐23	10♉10	7♉11	21♌24	0♉19	16♐14	14♋ 0	17♈52	16♉21	12♌18	12♌24	16♓13	2♈10	F 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	4n29	16s48	4n45	7s16	2s22	0s49	1s27	19n11	3n 7	8n 6	1s 3	21s 8	1n42	23n12	0n25	5n 8	1s35	2n10	15s 0	16n19	16n39	9s 0	3n 9	3n13
F 2	4 52	18 56	4 11	6 43	2 24	0 19	1 27	19 8	3 5	8 11	1 3	21 8	1 42	23 12	0 25	5 9	1 35	2 10	15 0	16 21	16 40	8 58	3 11	3 13
S 3	5 15	20 0	3 25	6 10	2 26	0n11	1 27	19 4	3 2	8 17	1 3	21 8	1 42	23 12	0 25	5 10	1 35	2 11	15 0	16 21	16 41	8 56	3 12	3 13
S 4	5 38	20 2	2 30	5 35	2 27	0 41	1 27	19 0	3 0	8 22	1 3	21 8	1 42	23 12	0 25	5 11	1 35	2 11	15 0	16 21	16 42	8 54	3 14	3 13
M 5	6 0	19 6	1 30	4 59	2 28	1 11	1 26	18 56	2 58	8 27	1 3	21 8	1 42	23 12	0 25	5 12	1 35	2 12	15 0	16 21	16 43	8 52	3 15	3 13
T 6	6 23	17 20	0 27	4 22	2 28	1 40	1 26	18 52	2 56	8 33	1 3	21 8	1 42	23 12	0 25	5 12	1 35	2 12	14 59	16 21	16 44	8 51	3 16	3 12
W 7	6 46	14 49	0s37	3 43	2 28	2 10	1 25	18 47	2 53	8 38	1 3	21 7	1 43	23 12	0 25	5 13	1 35	2 13	14 59	16 21	16 45	8 49	3 18	3 12
T 8	7 8	11 43	1 38	3 4	2 27	2 40	1 25	18 43	2 51	8 43	1 3	21 7	1 43	23 12	0 25	5 14	1 35	2 13	14 59	16 22	16 46	8 47	3 19	3 12
F 9	7 31	8 8	2 35	2 23	2 26	3 10	1 24	18 38	2 49	8 49	1 3	21 7	1 43	23 11	0 25	5 15	1 35	2 14	14 59	16 23	16 47	8 45	3 21	3 12
S 10	7 53	4 14	3 25	1 41	2 24	3 39	1 23	18 33	2 47	8 54	1 2	21 7	1 43	23 11	0 25	5 16	1 35	2 14	14 59	16 25	16 48	8 43	3 22	3 12
S 11	8 15	0 8	4 7	0 59	2 22	4 9	1 22	18 28	2 44	8 59	1 2	21 7	1 43	23 11	0 25	5 17	1 35	2 15	14 59	16 28	16 49	8 41	3 23	3 12
M12	8 37	4n 0	4 38	0 15	2 19	4 38	1 21	18 23	2 42	9 5	1 2	21 6	1 43	23 11	0 25	5 18	1 35	2 15	14 58	16 31	16 49	8 39	3 25	3 12
T 13	8 59	8 3	4 57	0n30	2 16	5 8	1 21	18 17	2 40	9 10	1 2	21 6	1 43	23 11	0 25	5 18	1 35	2 16	14 58	16 35	16 50	8 37	3 26	3 12
W14	9 21	11 48	5 2	1 15	2 12	5 37	1 20	18 12	2 38	9 15	1 2	21 6	1 43	23 11	0 25	5 19	1 35	2 16	14 58	16 38	16 51	8 36	3 27	3 12
T 15	9 42	15 6	4 52	2 2	2 8	6 6	1 19	18 6	2 36	9 20	1 2	21 6	1 43	23 11	0 25	5 20	1 35	2 17	14 58	16 42	16 52	8 34	3 29	3 12
F 16	10 4	17 44	4 28	2 49	2 3	6 35	1 17	18 0	2 34	9 26	1 2	21 5	1 43	23 11	0 25	5 21	1 35	2 17	14 58	16 44	16 53	8 32	3 30	3 12
S 17	10 25	19 31	3 50	3 37	1 58	7 4	1 16	17 54	2 32	9 31	1 2	21 5	1 43	23 10	0 25	5 22	1 35	2 18	14 58	16 46	16 54	8 30	3 31	3 12
S 18	10 46	20 16	2 58	4 26	1 52	7 33	1 15	17 48	2 30	9 36	1 2	21 5	1 44	23 10	0 25	5 23	1 35	2 18	14 58	16 47	16 55	8 28	3 33	3 12
M19	11 7	19 54	1 56	5 16	1 46	8 1	1 14	17 42	2 28	9 41	1 2	21 4	1 44	23 10	0 25	5 24	1 35	2 19	14 58	16 48	16 56	8 26	3 34	3 12
T 20	11 27	18 21	0 46	6 6	1 39	8 30	1 13	17 35	2 26	9 46	1 2	21 4	1 44	23 10	0 25	5 24	1 35	2 19	14 57	16 48	16 57	8 24	3 35	3 12
W21	11 48	15 40	0n28	6 57	1 32	8 58	1 11	17 28	2 24	9 52	1 2	21 4	1 44	23 10	0 25	5 25	1 35	2 19	14 57	16 48	16 58	8 22	3 37	3 12
T 22	12 8	11 58	1 42	7 49	1 24	9 26	1 10	17 22	2 22	9 57	1 2	21 4	1 44	23 10	0 25	5 26	1 35	2 20	14 57	16 48	16 58	8 20	3 38	3 13
F 23	12 28	7 30	2 50	8 41	1 16	9 54	1 8	17 15	2 20	10 2	1 2	21 3	1 44	23 9	0 25	5 27	1 35	2 20	14 57	16 49	16 59	8 19	3 39	3 13
S 24	12 48	2 31	3 48	9 33	1 7	10 21	1 7	17 8	2 18	10 7	1 2	21 3	1 44	23 9	0 25	5 28	1 35	2 21	14 57	16 51	17 0	8 17	3 41	3 13
S 25	13 8	2s38	4 31	10 25	0 58	10 49	1 5	17 0	2 16	10 12	1 2	21 3	1 44	23 9	0 25	5 29	1 35	2 21	14 57	16 53	17 1	8 15	3 42	3 13
M26	13 27	7 36	4 55	11 17	0 49	11 16	1 4	16 53	2 14	10 17	1 2	21 2	1 44	23 9	0 25	5 29	1 35	2 22	14 57	16 56	17 2	8 13	3 43	3 13
T 27	13 47	12 3	5 0	12 10	0 39	11 43	1 2	16 46	2 12	10 22	1 2	21 2	1 44	23 9	0 25	5 30	1 35	2 22	14 57	16 59	17 3	8 11	3 45	3 13
W28	14 6	15 44	4 45	13 2	0 29	12 9	1 0	16 38	2 10	10 27	1 2	21 2	1 44	23 8	0 25	5 31	1 35	2 23	14 57	17 2	17 4	8 9	3 46	3 13
T 29	14 24	18 24	4 14	13 53	0 19	12 35	0 59	16 30	2 8	10 32	1 2	21 1	1 44	23 8	0 25	5 32	1 35	2 23	14 57	17 5	17 5	8 7	3 47	3 13
F 30	14n43	19s57	3n30	14n44	0s 9	13n 1	0s57	16n22	2n 6	10n37	1s 2	21s 1	1n44	23n 8	0n25	5n33	1s35	2n23	14s57	17n 7	17n 6	8s 5	3n48	3n13

Julian Day Number = 2403788.5, Delta T = 3.24 sec
Ecliptic obliquity = 23°27'17, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°54'52, Lahiri = 22°01'52

ASTRODIENST EPHEMERIS for the year 1869
geocentric

MAY 1869 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 35 50	10♉37'48	11♋23	12♉20	8♉25	21♌43	0♉33	16°R11	14♋ 2	17♈54	16♉22	12°R14	12♌21	16♓19	2♈13	S 1
S 2	14 39 47	11°35'57	23°59	14°30	9°39	22° 3	0°47	16♐ 8	14° 4	17°56	16°24	12♌12	12°17	16°26	2°16	S 2
M 3	14 43 43	12°34'05	6♒15	16°39	10°53	22°23	1° 2	16° 4	14° 6	17°58	16°25	12°11	12°14	16°33	2°19	M 3
T 4	14 47 40	13°32'12	18°16	18°49	12° 7	22°43	1°16	16° 1	14° 8	18° 0	16°26	12°11	12°11	16°39	2°21	T 4
W 5	14 51 36	14°30'16	0♓ 8	20°58	13°21	23° 4	1°30	15°58	14°11	18° 2	16°28	12°10	12° 8	16°46	2°24	W 5
T 6	14 55 33	15°28'20	11°56	23° 6	14°35	23°25	1°44	15°54	14°13	18° 4	16°29	12° 8	12° 5	16°53	2°27	T 6
F 7	14 59 29	16°26'22	23°45	25°13	15°49	23°47	1°59	15°51	14°15	18° 6	16°31	12° 4	12° 1	16°59	2°30	F 7
S 8	15 3 26	17°24'23	5♈40	27°19	17° 2	24° 8	2°13	15°47	14°17	18° 8	16°32	11°57	11°58	17° 6	2°33	S 8
S 9	15 7 23	18°22'22	17°44	29°23	18°16	24°31	2°27	15°43	14°20	18°10	16°33	11°47	11°55	17°13	2°36	S 9
M10	15 11 19	19°20'20	29°59	1♊25	19°30	24°53	2°41	15°40	14°22	18°12	16°35	11°35	11°52	17°19	2°38	M10
T 11	15 15 16	20°18'16	12♉27	3°24	20°44	25°16	2°55	15°36	14°25	18°14	16°36	11°22	11°49	17°26	2°41	T 11
W12	15 19 12	21°16'11	25° 9	5°22	21°58	25°39	3° 9	15°32	14°27	18°16	16°37	11° 9	11°46	17°33	2°44	W12
T 13	15 23 9	22°14'04	8♊ 3	7°17	23°12	26° 2	3°23	15°28	14°30	18°18	16°39	10°57	11°42	17°40	2°46	T 13
F 14	15 27 5	23°11'56	21° 9	9° 9	24°26	26°26	3°37	15°24	14°32	18°20	16°40	10°47	11°39	17°46	2°49	F 14
S 15	15 31 2	24° 9'47	4♋27	10°58	25°40	26°50	3°51	15°20	14°35	18°22	16°41	10°40	11°36	17°53	2°52	S 15
S 16	15 34 58	25° 7'35	17°56	12°44	26°54	27°14	4° 5	15°16	14°37	18°24	16°43	10°36	11°33	18° 0	2°54	S 16
M17	15 38 55	26° 5'23	1♌35	14°28	28° 7	27°39	4°19	15°12	14°40	18°26	16°44	10°34	11°30	18° 6	2°57	M17
T 18	15 42 52	27° 3'08	15°24	16° 8	29°21	28° 3	4°33	15° 8	14°43	18°28	16°45	10°D34	11°27	18°13	2°59	T 18
W19	15 46 48	28° 0'52	29°23	17°45	0♊35	28°29	4°47	15° 4	14°46	18°30	16°47	10°R34	11°23	18°20	3° 2	W19
T 20	15 50 45	28°58'33	13♍33	19°18	1°49	28°54	5° 0	15° 0	14°48	18°31	16°48	10°34	11°20	18°26	3° 4	T 20
F 21	15 54 41	29°56'14	27°51	20°49	3° 3	29°19	5°14	14°56	14°51	18°33	16°49	10°31	11°17	18°33	3° 6	F 21
S 22	15 58 38	0♊53'52	12♎16	22°16	4°17	29°45	5°28	14°52	14°54	18°35	16°51	10°26	11°14	18°40	3° 9	S 22
S 23	16 2 34	1°51'30	26°44	23°39	5°30	0♍11	5°42	14°47	14°57	18°37	16°52	10°18	11°11	18°46	3°11	S 23
M24	16 6 31	2°49'06	11♏ 8	25° 0	6°44	0°38	5°55	14°43	15° 0	18°39	16°53	10° 9	11° 7	18°53	3°13	M24
T 25	16 10 27	3°46'40	25°23	26°16	7°58	1° 4	6° 9	14°39	15° 3	18°40	16°55	9°59	11° 4	19° 0	3°15	T 25
W26	16 14 24	4°44'14	9♐23	27°30	9°12	1°31	6°22	14°34	15° 6	18°42	16°56	9°49	11° 1	19° 6	3°17	W26
T 27	16 18 21	5°41'46	23° 4	28°39	10°25	1°58	6°36	14°30	15° 9	18°44	16°57	9°40	10°58	19°13	3°19	T 27
F 28	16 22 17	6°39'17	6♑22	29°45	11°39	2°25	6°49	14°26	15°12	18°45	16°59	9°34	10°55	19°20	3°21	F 28
S 29	16 26 14	7°36'47	19°18	0♋48	12°53	2°53	7° 3	14°21	15°15	18°47	17° 0	9°29	10°52	19°26	3°23	S 29
S 30	16 30 10	8°34'17	1♒53	1°46	14° 7	3°20	7°16	14°17	15°18	18°49	17° 1	9°27	10°48	19°33	3°25	S 30
M31	16 34 7	9♊31'45	14♒10	2♋41	15♊20	3♍48	7♉29	14♐12	15♋21	18♈50	17♉ 2	9°D27	10♌45	19♓40	3♈27	M31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	15n 1	20s23	2n35	15n35	0n 2	13n27	0s55	16n14	2n 5	10n42	1s 2	21s 0	1n44	23n 8	0n25	5n33	1s35	2n24	14s57	17n 8	17n 7	8s 3	3n50	3n13
S 2	15 19	19 46	1 35	16 24	0 12	13 52	0 53	16 6	2 3	10 47	1 2	21 0	1 44	23 7	0 25	5 34	1 35	2 24	14 56	17 9	17 7	8 1	3 51	3 13
M 3	15 37	18 13	0 31	17 12	0 23	14 17	0 51	15 58	2 1	10 52	1 2	21 0	1 44	23 7	0 25	5 35	1 35	2 25	14 56	17 9	17 8	7 59	3 52	3 13
T 4	15 55	15 52	0s32	17 58	0 34	14 42	0 49	15 50	1 59	10 57	1 2	20 59	1 44	23 7	0 25	5 36	1 35	2 25	14 56	17 9	17 9	7 57	3 53	3 13
W 5	16 12	12 54	1 34	18 43	0 44	15 6	0 47	15 41	1 57	11 2	1 2	20 59	1 44	23 7	0 25	5 36	1 35	2 25	14 56	17 9	17 10	7 55	3 54	3 13
T 6	16 29	9 25	2 31	19 26	0 54	15 30	0 45	15 33	1 56	11 7	1 2	20 59	1 45	23 7	0 25	5 37	1 35	2 26	14 56	17 10	17 11	7 54	3 56	3 13
F 7	16 46	5 33	3 21	20 7	1 4	15 54	0 43	15 24	1 54	11 12	1 2	20 58	1 45	23 6	0 25	5 38	1 35	2 26	14 56	17 11	17 12	7 52	3 57	3 13
S 8	17 2	1 28	4 3	20 46	1 13	16 17	0 41	15 15	1 52	11 17	1 2	20 58	1 45	23 6	0 25	5 39	1 36	2 27	14 56	17 13	17 13	7 50	3 58	3 13
S 9	17 18	2n44	4 35	21 22	1 22	16 39	0 39	15 6	1 51	11 22	1 2	20 57	1 45	23 6	0 25	5 39	1 36	2 27	14 56	17 16	17 14	7 48	3 59	3 13
M10	17 34	6 53	4 54	21 56	1 31	17 2	0 37	14 57	1 49	11 27	1 2	20 57	1 45	23 5	0 25	5 40	1 36	2 27	14 56	17 19	17 15	7 46	4 0	3 13
T 11	17 50	10 49	5 0	22 28	1 39	17 23	0 35	14 48	1 47	11 31	1 2	20 57	1 45	23 5	0 25	5 41	1 36	2 28	14 56	17 23	17 15	7 44	4 1	3 13
W12	18 5	14 20	4 52	22 57	1 46	17 45	0 33	14 38	1 46	11 36	1 2	20 56	1 45	23 5	0 25	5 42	1 36	2 28	14 56	17 26	17 16	7 42	4 3	3 13
T 13	18 20	17 15	4 28	23 24	1 53	18 6	0 30	14 29	1 44	11 41	1 2	20 56	1 45	23 5	0 25	5 42	1 36	2 28	14 56	17 30	17 17	7 40	4 4	3 13
F 14	18 35	19 20	3 50	23 48	1 59	18 26	0 28	14 19	1 43	11 46	1 2	20 55	1 45	23 4	0 25	5 43	1 36	2 29	14 56	17 32	17 18	7 38	4 5	3 14
S 15	18 49	20 24	2 59	24 9	2 4	18 46	0 26	14 10	1 41	11 50	1 2	20 55	1 45	23 4	0 25	5 44	1 36	2 29	14 56	17 34	17 19	7 36	4 6	3 14
S 16	19 4	20 19	1 57	24 28	2 9	19 6	0 24	14 0	1 40	11 55	1 2	20 54	1 45	23 4	0 25	5 44	1 36	2 29	14 56	17 35	17 20	7 34	4 7	3 14
M17	19 17	19 3	0 48	24 44	2 12	19 25	0 21	13 50	1 38	12 0	1 2	20 54	1 45	23 3	0 25	5 45	1 36	2 30	14 56	17 36	17 21	7 32	4 8	3 14
T 18	19 31	16 38	0n26	24 58	2 15	19 43	0 19	13 40	1 36	12 4	1 2	20 53	1 45	23 3	0 25	5 46	1 36	2 30	14 56	17 36	17 22	7 30	4 9	3 14
W19	19 44	13 14	1 38	25 10	2 17	20 1	0 17	13 30	1 35	12 9	1 2	20 53	1 45	23 3	0 25	5 47	1 36	2 30	14 56	17 36	17 22	7 28	4 10	3 14
T 20	19 57	9 1	2 46	25 19	2 18	20 18	0 14	13 19	1 33	12 14	1 2	20 53	1 45	23 3	0 25	5 47	1 36	2 31	14 56	17 36	17 23	7 26	4 11	3 14
F 21	20 9	4 16	3 43	25 27	2 19	20 35	0 12	13 9	1 32	12 18	1 2	20 52	1 45	23 2	0 25	5 48	1 36	2 31	14 56	17 37	17 24	7 24	4 12	3 14
S 22	20 21	0s45	4 27	25 32	2 18	20 51	0 10	12 59	1 31	12 23	1 2	20 52	1 45	23 2	0 25	5 48	1 36	2 31	14 56	17 38	17 25	7 22	4 13	3 14
S 23	20 33	5 44	4 54	25 35	2 17	21 7	0 7	12 48	1 29	12 27	1 2	20 51	1 45	23 2	0 25	5 49	1 36	2 32	14 57	17 40	17 26	7 20	4 14	3 14
M24	20 44	10 23	5 3	25 36	2 15	21 22	0 5	12 37	1 28	12 32	1 2	20 51	1 45	23 1	0 25	5 50	1 36	2 32	14 57	17 43	17 27	7 18	4 15	3 14
T 25	20 55	14 23	4 52	25 36	2 12	21 37	0 2	12 27	1 26	12 36	1 2	20 50	1 45	23 1	0 25	5 50	1 36	2 32	14 57	17 45	17 28	7 16	4 16	3 14
W26	21 6	17 31	4 24	25 34	2 8	21 51	0 0	12 16	1 25	12 40	1 2	20 50	1 45	23 1	0 25	5 51	1 36	2 33	14 57	17 48	17 29	7 14	4 17	3 14
T 27	21 16	19 36	3 41	25 30	2 3	22 4	0n 2	12 5	1 23	12 45	1 2	20 49	1 44	23 0	0 25	5 52	1 36	2 33	14 57	17 50	17 29	7 12	4 18	3 15
F 28	21 26	20 31	2 47	25 25	1 58	22 16	0 5	11 54	1 22	12 49	1 2	20 49	1 44	23 0	0 25	5 52	1 36	2 33	14 57	17 52	17 30	7 10	4 19	3 15
S 29	21 36	20 19	1 46	25 18	1 51	22 29	0 7	11 43	1 21	12 53	1 2	20 49	1 44	23 0	0 25	5 53	1 36	2 33	14 57	17 53	17 31	7 8	4 20	3 15
S 30	21 45	19 6	0 40	25 10	1 44	22 40	0 10	11 31	1 19	12 58	1 2	20 48	1 44	22 59	0 25	5 53	1 36	2 34	14 57	17 54	17 32	7 6	4 20	3 15
M31	21n54	17s 0	0s25	25n 1	1n36	22n51	0n12	11n20	1n18	13n 2	1s 2	20s48	1n44	22n59	0n25	5n54	1s36	2n34	14s57	17n54	17n33	7s 4	4n21	3n15

Julian Day Number = 2403818.5, Delta T = 3.13 sec
Ecliptic obliquity = 23°27'16, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°54'56, Lahiri = 22°01'56

ASTRODIENST EPHEMERIS for the year 1869
geocentric

JUNE 1869 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	16 38 3	10♊29'13	26♒12	3♋32	16♊34	4♍16	7♉42	14°R 8	15♋24	18♈52	17♉ 4	9♌28	10♌42	19♓46	3♈29	T 1
W 2	16 42 0	11°26'40	8♓ 6	4°19	17°48	4°44	7°55	14♐ 4	15°27	18°53	17° 5	9°R29	10°39	19°53	3°31	W 2
T 3	16 45 56	12°24'06	19°56	5° 1	19° 1	5°13	8° 9	13°59	15°30	18°55	17° 6	9°28	10°36	20° 0	3°33	T 3
F 4	16 49 53	13°21'32	1♈48	5°40	20°15	5°41	8°22	13°55	15°33	18°56	17° 7	9°27	10°33	20° 6	3°34	F 4
S 5	16 53 50	14°18'57	13°46	6°14	21°29	6°10	8°35	13°50	15°37	18°58	17° 9	9°23	10°29	20°13	3°36	S 5
S 6	16 57 46	15°16'21	25°55	6°44	22°42	6°39	8°48	13°46	15°40	18°59	17°10	9°16	10°26	20°20	3°38	S 6
M 7	17 1 43	16°13'45	8♉18	7°10	23°56	7° 9	9° 0	13°41	15°43	19° 1	17°11	9° 9	10°23	20°26	3°39	M 7
T 8	17 5 39	17°11'08	20°56	7°31	25°10	7°38	9°13	13°37	15°46	19° 2	17°12	9° 0	10°20	20°33	3°41	T 8
W 9	17 9 36	18° 8'30	3♊53	7°48	26°24	8° 8	9°26	13°32	15°50	19° 4	17°14	8°51	10°17	20°40	3°42	W 9
T 10	17 13 32	19° 5'52	17° 6	8° 0	27°37	8°37	9°39	13°28	15°53	19° 5	17°15	8°43	10°13	20°46	3°44	T 10
F 11	17 17 29	20° 3'13	0♋34	8° 8	28°51	9° 7	9°51	13°24	15°56	19° 6	17°16	8°36	10°10	20°53	3°45	F 11
S 12	17 21 25	21° 0'34	14°16	8°R11	0♋ 5	9°38	10° 4	13°19	16° 0	19° 8	17°17	8°32	10° 7	21° 0	3°46	S 12
S 13	17 25 22	21°57'53	28° 8	8° 9	1°18	10° 8	10°16	13°15	16° 3	19° 9	17°18	8°29	10° 4	21° 6	3°48	S 13
M14	17 29 19	22°55'12	12♌ 8	8° 3	2°32	10°38	10°29	13°11	16° 7	19°10	17°19	8°D29	10° 1	21°13	3°49	M14
T 15	17 33 15	23°52'30	26°13	7°53	3°45	11° 9	10°41	13° 6	16°10	19°11	17°20	8°30	9°58	21°20	3°50	T 15
W16	17 37 12	24°49'47	10♍22	7°39	4°59	11°40	10°53	13° 2	16°14	19°13	17°22	8°31	9°54	21°26	3°51	W16
T 17	17 41 8	25°47'03	24°32	7°20	6°13	12°11	11° 5	12°58	16°17	19°14	17°23	8°R32	9°51	21°33	3°52	T 17
F 18	17 45 5	26°44'18	8♎43	6°58	7°26	12°42	11°18	12°53	16°20	19°15	17°24	8°31	9°48	21°40	3°53	F 18
S 19	17 49 1	27°41'33	22°53	6°33	8°40	13°13	11°30	12°49	16°24	19°16	17°25	8°29	9°45	21°47	3°54	S 19
S 20	17 52 58	28°38'46	6♏58	6° 5	9°54	13°45	11°42	12°45	16°27	19°17	17°26	8°25	9°42	21°53	3°55	S 20
M21	17 56 54	29°36'00	20°56	5°34	11° 7	14°16	11°53	12°41	16°31	19°18	17°27	8°20	9°38	22° 0	3°56	M21
T 22	18 0 51	0♋33'12	4♐43	5° 1	12°21	14°48	12° 5	12°37	16°34	19°19	17°28	8°14	9°35	22° 7	3°57	T 22
W23	18 4 48	1°30'25	18°18	4°27	13°34	15°20	12°17	12°33	16°38	19°20	17°29	8° 8	9°32	22°13	3°58	W23
T 24	18 8 44	2°27'36	1♑37	3°52	14°48	15°52	12°28	12°28	16°42	19°21	17°30	8° 3	9°29	22°20	3°59	T 24
F 25	18 12 41	3°24'48	14°39	3°16	16° 1	16°24	12°40	12°24	16°45	19°22	17°31	7°59	9°26	22°27	3°59	F 25
S 26	18 16 37	4°21'59	27°24	2°41	17°15	16°56	12°51	12°21	16°49	19°23	17°32	7°57	9°23	22°33	4° 0	S 26
S 27	18 20 34	5°19'11	9♒51	2° 7	18°29	17°29	13° 3	12°17	16°52	19°24	17°33	7°D57	9°19	22°40	4° 0	S 27
M28	18 24 30	6°16'22	22° 5	1°35	19°42	18° 1	13°14	12°13	16°56	19°24	17°34	7°58	9°16	22°47	4° 1	M28
T 29	18 28 27	7°13'33	4♓ 6	1° 4	20°56	18°34	13°25	12° 9	17° 0	19°25	17°35	7°59	9°13	22°53	4° 1	T 29
W30	18 32 23	8♋10'44	16♓ 0	0♋36	22♋ 9	19♍ 7	13♉36	12♐ 5	17♋ 3	19♈26	17♉36	8♌ 1	9♌10	23♓ 0	4♈ 2	W30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	22n 2	14s11	1s29	24n51	1n27	23n 1	0n14	11n 8	1n17	13n 6	1s 2	20s47	1n44	22n58	0n25	5n54	1s36	2n34	14s57	17n54	17n34	7s 2	4n22	3n15
W 2	22 10	10 49	2 27	24 40	1 17	23 10	0 17	10 57	1 15	13 10	1 3	20 47	1 44	22 58	0 25	5 55	1 36	2 34	14 57	17 53	17 35	7 0	4 23	3 15
T 3	22 18	7 3	3 19	24 28	1 7	23 19	0 19	10 45	1 14	13 15	1 3	20 46	1 44	22 58	0 25	5 56	1 37	2 35	14 57	17 54	17 35	6 58	4 24	3 15
F 4	22 25	3 0	4 3	24 15	0 55	23 27	0 21	10 33	1 13	13 19	1 3	20 46	1 44	22 57	0 25	5 56	1 37	2 35	14 57	17 54	17 36	6 56	4 25	3 15
S 5	22 32	1n11	4 37	24 2	0 43	23 35	0 24	10 21	1 11	13 23	1 3	20 45	1 44	22 57	0 25	5 57	1 37	2 35	14 58	17 55	17 37	6 54	4 25	3 15
S 6	22 38	5 23	4 58	23 48	0 31	23 41	0 26	10 10	1 10	13 27	1 3	20 45	1 44	22 57	0 25	5 57	1 37	2 35	14 58	17 57	17 38	6 52	4 26	3 16
M 7	22 45	9 27	5 6	23 33	0 17	23 47	0 28	9 57	1 9	13 31	1 3	20 44	1 44	22 56	0 25	5 58	1 37	2 35	14 58	17 59	17 39	6 50	4 27	3 16
T 8	22 50	13 11	5 0	23 17	0 3	23 53	0 31	9 45	1 8	13 35	1 3	20 44	1 44	22 56	0 25	5 58	1 37	2 36	14 58	18 1	17 40	6 48	4 27	3 16
W 9	22 55	16 23	4 38	23 2	0s12	23 57	0 33	9 33	1 6	13 39	1 3	20 43	1 44	22 55	0 25	5 59	1 37	2 36	14 58	18 3	17 41	6 46	4 28	3 16
T 10	23 0	18 50	4 1	22 46	0 27	24 1	0 35	9 21	1 5	13 43	1 3	20 43	1 44	22 55	0 25	5 59	1 37	2 36	14 58	18 6	17 42	6 44	4 29	3 16
F 11	23 5	20 17	3 10	22 30	0 43	24 4	0 37	9 8	1 4	13 47	1 3	20 43	1 44	22 55	0 25	5 59	1 37	2 36	14 58	18 7	17 42	6 42	4 29	3 16
S 12	23 9	20 35	2 7	22 13	0 59	24 7	0 40	8 56	1 3	13 51	1 3	20 42	1 43	22 54	0 25	6 0	1 37	2 36	14 58	18 9	17 43	6 40	4 30	3 16
S 13	23 13	19 38	0 56	21 57	1 15	24 9	0 42	8 43	1 1	13 55	1 3	20 42	1 43	22 54	0 25	6 0	1 37	2 36	14 59	18 9	17 44	6 38	4 31	3 16
M14	23 16	17 29	0n20	21 41	1 32	24 10	0 44	8 31	1 0	13 58	1 3	20 41	1 43	22 53	0 25	6 1	1 37	2 37	14 59	18 9	17 45	6 36	4 31	3 16
T 15	23 19	14 16	1 35	21 25	1 49	24 10	0 46	8 18	0 59	14 2	1 3	20 41	1 43	22 53	0 25	6 1	1 37	2 37	14 59	18 9	17 46	6 34	4 32	3 17
W16	23 21	10 13	2 44	21 9	2 6	24 10	0 48	8 5	0 58	14 6	1 3	20 40	1 43	22 53	0 25	6 2	1 37	2 37	14 59	18 9	17 47	6 32	4 32	3 17
T 17	23 23	5 35	3 43	20 53	2 22	24 9	0 50	7 52	0 57	14 10	1 3	20 40	1 43	22 52	0 25	6 2	1 37	2 37	14 59	18 9	17 47	6 30	4 33	3 17
F 18	23 25	0 40	4 29	20 38	2 39	24 7	0 52	7 39	0 56	14 13	1 4	20 40	1 43	22 52	0 25	6 2	1 37	2 37	14 59	18 9	17 48	6 28	4 33	3 17
S 19	23 26	4s16	4 59	20 23	2 54	24 4	0 54	7 26	0 54	14 17	1 4	20 39	1 43	22 51	0 25	6 3	1 37	2 37	15 0	18 9	17 49	6 26	4 34	3 17
S 20	23 27	8 58	5 10	20 9	3 10	24 1	0 56	7 13	0 53	14 20	1 4	20 39	1 43	22 51	0 25	6 3	1 37	2 37	15 0	18 10	17 50	6 24	4 34	3 17
M21	23 27	13 8	5 3	19 56	3 24	23 57	0 58	7 0	0 52	14 24	1 4	20 38	1 42	22 50	0 25	6 3	1 37	2 38	15 0	18 12	17 51	6 22	4 35	3 17
T 22	23 27	16 32	4 38	19 44	3 38	23 53	1 0	6 46	0 51	14 28	1 4	20 38	1 42	22 50	0 25	6 4	1 37	2 38	15 0	18 13	17 52	6 20	4 35	3 17
W23	23 27	19 0	3 58	19 32	3 51	23 47	1 2	6 33	0 50	14 31	1 4	20 37	1 42	22 50	0 25	6 4	1 38	2 38	15 0	18 15	17 53	6 18	4 36	3 17
T 24	23 26	20 22	3 5	19 22	4 2	23 41	1 4	6 20	0 49	14 34	1 4	20 37	1 42	22 49	0 25	6 4	1 38	2 38	15 1	18 16	17 53	6 16	4 36	3 18
F 25	23 25	20 36	2 4	19 12	4 13	23 35	1 5	6 6	0 48	14 38	1 4	20 37	1 42	22 49	0 25	6 5	1 38	2 38	15 1	18 17	17 54	6 14	4 36	3 18
S 26	23 23	19 45	0 57	19 4	4 22	23 27	1 7	5 53	0 47	14 41	1 4	20 36	1 42	22 48	0 25	6 5	1 38	2 38	15 1	18 17	17 55	6 12	4 37	3 18
S 27	23 21	17 57	0s10	18 57	4 29	23 19	1 9	5 39	0 46	14 45	1 4	20 36	1 42	22 48	0 25	6 5	1 38	2 38	15 1	18 18	17 56	6 10	4 37	3 18
M28	23 18	15 22	1 17	18 52	4 35	23 10	1 10	5 25	0 44	14 48	1 4	20 36	1 42	22 47	0 25	6 5	1 38	2 38	15 1	18 17	17 57	6 8	4 37	3 18
T 29	23 15	12 9	2 18	18 47	4 40	23 1	1 12	5 11	0 43	14 51	1 5	20 35	1 41	22 47	0 25	6 6	1 38	2 38	15 2	18 17	17 58	6 5	4 38	3 18
W30	23n12	8s30	3s14	18n45	4s43	22n50	1n14	4n58	0n42	14n54	1s 5	20s35	1n41	22n46	0n25	6n 6	1s38	2n38	15s 2	18n17	17n58	6s 3	4n38	3n18

Julian Day Number = 2403849.5, Delta T = 3.03 sec
Ecliptic obliquity = 23°27'16, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°55'00, Lahiri = 22°02'01

ASTRODIENST EPHEMERIS for the year 1869
geocentric

JULY 1869 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	18 36 20	9♋ 7'56	27♓51	0°R11	23♋23	19♍40	13♉47	12°R 1	17♋ 7	19♈27	17♉37	8♌ 2	9♌ 7	23♓ 7	4♈ 2	T 1
F 2	18 40 17	10° 5'07	9♈44	29♊50	24°36	20°13	13°58	11♐58	17°10	19°27	17°38	8°R 3	9° 4	23°13	4° 2	F 2
S 3	18 44 13	11° 2'19	21°43	29°32	25°50	20°46	14° 9	11°54	17°14	19°28	17°39	8° 2	9° 0	23°20	4° 3	S 3
S 4	18 48 10	11°59'31	3♉53	29°19	27° 3	21°20	14°20	11°51	17°18	19°29	17°40	8° 1	8°57	23°27	4° 3	S 4
M 5	18 52 6	12°56'44	16°19	29°11	28°17	21°53	14°30	11°47	17°21	19°29	17°40	7°58	8°54	23°33	4° 3	M 5
T 6	18 56 3	13°53'57	29° 3	29°D 7	29°30	22°27	14°41	11°44	17°25	19°30	17°41	7°55	8°51	23°40	4° 3	T 6
W 7	18 59 59	14°51'10	12♊ 8	29° 8	0♌44	23° 1	14°51	11°40	17°29	19°30	17°42	7°51	8°48	23°47	4°R 3	W 7
T 8	19 3 56	15°48'23	25°34	29°14	1°57	23°34	15° 1	11°37	17°32	19°31	17°43	7°48	8°44	23°54	4° 3	T 8
F 9	19 7 52	16°45'37	9♋21	29°26	3°11	24° 8	15°12	11°34	17°36	19°31	17°44	7°45	8°41	24° 0	4° 3	F 9
S 10	19 11 49	17°42'51	23°25	29°43	4°24	24°43	15°22	11°31	17°40	19°32	17°44	7°44	8°38	24° 7	4° 3	S 10
S 11	19 15 46	18°40'05	7♌42	0♋ 5	5°38	25°17	15°32	11°28	17°43	19°32	17°45	7°D44	8°35	24°14	4° 3	S 11
M12	19 19 42	19°37'19	22° 8	0°32	6°51	25°51	15°41	11°25	17°47	19°33	17°46	7°44	8°32	24°20	4° 2	M12
T 13	19 23 39	20°34'34	6♍38	1° 5	8° 5	26°26	15°51	11°22	17°50	19°33	17°47	7°45	8°29	24°27	4° 2	T 13
W14	19 27 35	21°31'48	21° 6	1°43	9°18	27° 0	16° 1	11°19	17°54	19°33	17°47	7°46	8°25	24°34	4° 2	W14
T 15	19 31 32	22°29'03	5♎28	2°26	10°32	27°35	16°10	11°16	17°58	19°34	17°48	7°47	8°22	24°40	4° 1	T 15
F 16	19 35 28	23°26'17	19°42	3°14	11°45	28°10	16°19	11°13	18° 1	19°34	17°49	7°R47	8°19	24°47	4° 1	F 16
S 17	19 39 25	24°23'32	3♏46	4° 8	12°58	28°45	16°29	11°11	18° 5	19°34	17°49	7°47	8°16	24°54	4° 0	S 17
S 18	19 43 21	25°20'47	17°37	5° 6	14°12	29°20	16°38	11° 8	18° 9	19°34	17°50	7°47	8°13	25° 0	4° 0	S 18
M19	19 47 18	26°18'02	1♐14	6°10	15°25	29°55	16°47	11° 5	18°12	19°34	17°51	7°45	8°10	25° 7	3°59	M19
T 20	19 51 15	27°15'18	14°38	7°19	16°39	0♎30	16°56	11° 3	18°16	19°35	17°51	7°44	8° 6	25°14	3°59	T 20
W21	19 55 11	28°12'34	27°47	8°32	17°52	1° 6	17° 4	11° 1	18°20	19°35	17°52	7°43	8° 3	25°20	3°58	W21
T 22	19 59 8	29° 9'50	10♑43	9°50	19° 5	1°41	17°13	10°59	18°23	19°35	17°52	7°42	8° 0	25°27	3°57	T 22
F 23	20 3 4	0♌ 7'07	23°25	11°13	20°19	2°17	17°21	10°56	18°27	19°R35	17°53	7°41	7°57	25°34	3°56	F 23
S 24	20 7 1	1° 4'25	5♒53	12°41	21°32	2°52	17°30	10°54	18°30	19°35	17°53	7°D41	7°54	25°40	3°55	S 24
S 25	20 10 57	2° 1'43	18°10	14°12	22°45	3°28	17°38	10°52	18°34	19°35	17°54	7°41	7°50	25°47	3°55	S 25
M26	20 14 54	2°59'02	0♓16	15°48	23°59	4° 4	17°46	10°50	18°37	19°35	17°54	7°41	7°47	25°54	3°54	M26
T 27	20 18 51	3°56'21	12°14	17°28	25°12	4°40	17°54	10°49	18°41	19°35	17°55	7°42	7°44	26° 1	3°53	T 27
W28	20 22 47	4°53'42	24° 7	19°12	26°25	5°16	18° 2	10°47	18°45	19°34	17°55	7°42	7°41	26° 7	3°51	W28
T 29	20 26 44	5°51'03	5♈57	20°59	27°39	5°52	18° 9	10°45	18°48	19°34	17°56	7°43	7°38	26°14	3°50	T 29
F 30	20 30 40	6°48'26	17°50	22°49	28°52	6°29	18°17	10°44	18°52	19°34	17°56	7°43	7°35	26°21	3°49	F 30
S 31	20 34 37	7♌45'50	29♈48	24♋42	0♍ 5	7♎ 5	18♉24	10♐42	18♋55	19♈34	17♉56	7♌43	7♌31	26♓27	3♈48	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23n 8	4s32	4s 0	18n43	4s44	22n40	1n15	4n44	0n41	14n57	1s 5	20s35	1n41	22n46	0n25	6n 6	1s38	2n38	15s 2	18n16	17n59	6s 1	4n38	3n18
F 2	23 4	0 23	4 37	18 43	4 44	22 28	1 16	4 30	0 40	15 1	1 5	20 34	1 41	22 46	0 25	6 6	1 38	2 38	15 2	18 16	18 0	5 59	4 39	3 18
S 3	23 0	3n48	5 1	18 45	4 42	22 16	1 18	4 16	0 39	15 4	1 5	20 34	1 41	22 45	0 25	6 7	1 38	2 38	15 2	18 16	18 1	5 57	4 39	3 19
S 4	22 55	7 54	5 13	18 48	4 39	22 3	1 19	4 1	0 38	15 7	1 5	20 34	1 41	22 45	0 25	6 7	1 38	2 38	15 3	18 17	18 2	5 55	4 39	3 19
M 5	22 49	11 46	5 11	18 52	4 35	21 50	1 20	3 47	0 37	15 10	1 5	20 33	1 40	22 44	0 25	6 7	1 38	2 38	15 3	18 17	18 3	5 53	4 39	3 19
T 6	22 44	15 11	4 53	18 58	4 29	21 36	1 22	3 33	0 36	15 13	1 5	20 33	1 40	22 44	0 25	6 7	1 38	2 38	15 3	18 18	18 4	5 51	4 39	3 19
W 7	22 38	17 58	4 20	19 5	4 22	21 21	1 23	3 19	0 35	15 16	1 5	20 33	1 40	22 43	0 25	6 7	1 38	2 38	15 3	18 19	18 4	5 49	4 39	3 19
T 8	22 31	19 51	3 32	19 13	4 15	21 6	1 24	3 4	0 34	15 19	1 5	20 32	1 40	22 43	0 25	6 7	1 38	2 38	15 4	18 20	18 5	5 47	4 39	3 19
F 9	22 24	20 38	2 30	19 21	4 6	20 50	1 25	2 50	0 33	15 21	1 6	20 32	1 40	22 42	0 25	6 7	1 38	2 38	15 4	18 20	18 6	5 45	4 39	3 19
S 10	22 17	20 8	1 18	19 31	3 56	20 34	1 26	2 36	0 32	15 24	1 6	20 32	1 40	22 42	0 25	6 8	1 39	2 38	15 4	18 21	18 7	5 43	4 40	3 19
S 11	22 9	18 21	0 0	19 42	3 45	20 17	1 27	2 21	0 31	15 27	1 6	20 32	1 39	22 41	0 25	6 8	1 39	2 38	15 4	18 21	18 8	5 41	4 40	3 20
M12	22 1	15 23	1n19	19 53	3 34	19 59	1 28	2 7	0 30	15 30	1 6	20 31	1 39	22 41	0 25	6 8	1 39	2 38	15 4	18 21	18 8	5 38	4 40	3 20
T 13	21 53	11 27	2 33	20 5	3 22	19 41	1 28	1 52	0 29	15 32	1 6	20 31	1 39	22 40	0 25	6 8	1 39	2 38	15 5	18 21	18 9	5 36	4 40	3 20
W14	21 44	6 52	3 37	20 17	3 10	19 22	1 29	1 37	0 28	15 35	1 6	20 31	1 39	22 40	0 25	6 8	1 39	2 38	15 5	18 20	18 10	5 34	4 40	3 20
T 15	21 35	1 55	4 28	20 29	2 57	19 3	1 30	1 23	0 27	15 38	1 6	20 31	1 39	22 39	0 25	6 8	1 39	2 38	15 5	18 20	18 11	5 32	4 39	3 20
F 16	21 25	3s 4	5 1	20 42	2 43	18 43	1 30	1 8	0 26	15 40	1 6	20 31	1 39	22 39	0 25	6 8	1 39	2 38	15 5	18 20	18 12	5 30	4 39	3 20
S 17	21 15	7 50	5 16	20 54	2 29	18 23	1 31	0 53	0 25	15 43	1 7	20 30	1 38	22 39	0 25	6 8	1 39	2 38	15 6	18 20	18 13	5 28	4 39	3 20
S 18	21 5	12 6	5 12	21 6	2 16	18 2	1 31	0 38	0 24	15 45	1 7	20 30	1 38	22 38	0 25	6 8	1 39	2 38	15 6	18 20	18 13	5 26	4 39	3 20
M19	20 54	15 41	4 50	21 17	2 1	17 41	1 32	0 24	0 23	15 48	1 7	20 30	1 38	22 38	0 25	6 8	1 39	2 38	15 6	18 20	18 14	5 24	4 39	3 20
T 20	20 43	18 22	4 13	21 28	1 47	17 19	1 32	0 9	0 23	15 50	1 7	20 30	1 38	22 37	0 25	6 8	1 39	2 37	15 7	18 21	18 15	5 22	4 39	3 20
W21	20 32	20 3	3 23	21 38	1 33	16 57	1 32	0s 6	0 22	15 52	1 7	20 30	1 38	22 37	0 25	6 8	1 39	2 37	15 7	18 21	18 16	5 20	4 39	3 21
T 22	20 20	20 38	2 24	21 47	1 18	16 34	1 32	0 21	0 21	15 55	1 7	20 30	1 37	22 36	0 25	6 8	1 39	2 37	15 7	18 21	18 17	5 17	4 38	3 21
F 23	20 8	20 8	1 18	21 55	1 4	16 11	1 32	0 36	0 20	15 57	1 7	20 30	1 37	22 36	0 25	6 8	1 39	2 37	15 7	18 22	18 18	5 15	4 38	3 21
S 24	19 56	18 39	0 10	22 1	0 50	15 48	1 32	0 51	0 19	15 59	1 7	20 30	1 37	22 35	0 25	6 8	1 39	2 37	15 8	18 22	18 18	5 13	4 38	3 21
S 25	19 43	16 19	0s58	22 5	0 37	15 24	1 32	1 6	0 18	16 1	1 8	20 29	1 37	22 35	0 25	6 8	1 39	2 37	15 8	18 22	18 19	5 11	4 38	3 21
M26	19 30	13 17	2 2	22 8	0 23	14 59	1 32	1 21	0 17	16 3	1 8	20 29	1 37	22 34	0 25	6 8	1 39	2 37	15 8	18 22	18 20	5 9	4 37	3 21
T 27	19 17	9 45	3 0	22 9	0 10	14 35	1 32	1 37	0 16	16 5	1 8	20 29	1 36	22 34	0 25	6 8	1 40	2 37	15 8	18 21	18 21	5 7	4 37	3 21
W28	19 3	5 52	3 50	22 7	0n 3	14 9	1 32	1 52	0 15	16 7	1 8	20 29	1 36	22 33	0 25	6 8	1 40	2 36	15 9	18 21	18 22	5 5	4 37	3 21
T 29	18 49	1 46	4 30	22 3	0 15	13 44	1 32	2 7	0 14	16 9	1 8	20 29	1 36	22 33	0 25	6 7	1 40	2 36	15 9	18 21	18 22	5 3	4 36	3 21
F 30	18 35	2n24	4 59	21 57	0 26	13 18	1 31	2 22	0 14	16 11	1 8	20 29	1 36	22 32	0 25	6 7	1 40	2 36	15 9	18 21	18 23	5 1	4 36	3 21
S 31	18n20	6n30	5s14	21n48	0n37	12n52	1n31	2s37	0n13	16n13	1s 8	20s29	1n36	22n32	0n25	6n 7	1s40	2n36	15s10	18n21	18n24	4s58	4n36	3n22

Julian Day Number = 2403879.5, Delta T = 2.93 sec
Ecliptic obliquity = 23°27'16, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°55'04, Lahiri = 22°02'05

ASTRODIENST EPHEMERIS for the year 1869
geocentric

AUGUST 1869 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 38 33	8♌43'15	11♉57	26♋38	1♍18	7♎42	18♉32	10°R41	18♋59	19°R33	17♉57	7♌43	7♌28	26♓34	3°R47	S 1
M 2	20 42 30	9°40'41	24°21	28°36	2°32	8°18	18°39	10♐40	19° 2	19♈33	17°57	7°43	7°25	26°41	3♈45	M 2
T 3	20 46 26	10°38'08	7♊ 5	0♌36	3°45	8°55	18°46	10°39	19° 6	19°33	17°57	7°43	7°22	26°47	3°44	T 3
W 4	20 50 23	11°35'37	20°10	2°37	4°58	9°32	18°52	10°37	19° 9	19°32	17°58	7°43	7°19	26°54	3°43	W 4
T 5	20 54 20	12°33'07	3♋40	4°40	6°11	10° 9	18°59	10°36	19°12	19°32	17°58	7°44	7°16	27° 1	3°41	T 5
F 6	20 58 16	13°30'38	17°35	6°43	7°24	10°46	19° 5	10°36	19°16	19°32	17°58	7°44	7°12	27° 7	3°40	F 6
S 7	21 2 13	14°28'11	1♌53	8°47	8°38	11°23	19°12	10°35	19°19	19°31	17°58	7°R44	7° 9	27°14	3°38	S 7
S 8	21 6 9	15°25'44	16°30	10°51	9°51	12° 0	19°18	10°34	19°23	19°31	17°59	7°44	7° 6	27°21	3°37	S 8
M 9	21 10 6	16°23'19	1♍20	12°54	11° 4	12°37	19°24	10°34	19°26	19°30	17°59	7°44	7° 3	27°28	3°35	M 9
T 10	21 14 2	17°20'54	16°14	14°58	12°17	13°15	19°30	10°33	19°29	19°30	17°59	7°43	7° 0	27°34	3°33	T 10
W11	21 17 59	18°18'31	1♎ 6	17° 1	13°30	13°52	19°35	10°33	19°33	19°29	17°59	7°42	6°56	27°41	3°32	W11
T 12	21 21 55	19°16'09	15°48	19° 3	14°43	14°30	19°41	10°32	19°36	19°28	17°59	7°41	6°53	27°48	3°30	T 12
F 13	21 25 52	20°13'47	0♏15	21° 4	15°56	15° 7	19°46	10°32	19°39	19°28	17°59	7°40	6°50	27°54	3°28	F 13
S 14	21 29 48	21°11'27	14°22	23° 5	17° 9	15°45	19°51	10°32	19°43	19°27	17°59	7°39	6°47	28° 1	3°26	S 14
S 15	21 33 45	22° 9'07	28° 9	25° 4	18°22	16°23	19°56	10°D32	19°46	19°26	18° 0	7°D39	6°44	28° 8	3°24	S 15
M16	21 37 42	23° 6'49	11♐36	27° 2	19°35	17° 1	20° 1	10°32	19°49	19°26	18° 0	7°40	6°41	28°14	3°22	M16
T 17	21 41 38	24° 4'31	24°43	28°59	20°48	17°39	20° 5	10°32	19°52	19°25	18° 0	7°41	6°37	28°21	3°20	T 17
W18	21 45 35	25° 2'15	7♑34	0♍54	22° 1	18°17	20°10	10°32	19°55	19°24	18°R 0	7°42	6°34	28°28	3°18	W18
T 19	21 49 31	26° 0'00	20°10	2°49	23°14	18°55	20°14	10°33	19°58	19°23	18° 0	7°43	6°31	28°34	3°16	T 19
F 20	21 53 28	26°57'46	2♒34	4°41	24°27	19°33	20°18	10°33	20° 2	19°22	18° 0	7°R44	6°28	28°41	3°14	F 20
S 21	21 57 24	27°55'34	14°47	6°33	25°40	20°12	20°22	10°34	20° 5	19°22	17°59	7°44	6°25	28°48	3°12	S 21
S 22	22 1 21	28°53'23	26°52	8°23	26°53	20°50	20°26	10°35	20° 8	19°21	17°59	7°43	6°22	28°55	3°10	S 22
M23	22 5 17	29°51'13	8♓50	10°12	28° 6	21°29	20°29	10°35	20°11	19°20	17°59	7°41	6°18	29° 1	3° 8	M23
T 24	22 9 14	0♍49'05	20°44	11°59	29°19	22° 8	20°33	10°36	20°14	19°19	17°59	7°37	6°15	29° 8	3° 6	T 24
W25	22 13 11	1°46'58	2♈35	13°45	0♎31	22°46	20°36	10°37	20°17	19°18	17°59	7°34	6°12	29°15	3° 3	W25
T 26	22 17 7	2°44'53	14°26	15°30	1°44	23°25	20°39	10°38	20°20	19°17	17°59	7°29	6° 9	29°21	3° 1	T 26
F 27	22 21 4	3°42'50	26°19	17°14	2°57	24° 4	20°42	10°39	20°22	19°16	17°59	7°25	6° 6	29°28	2°59	F 27
S 28	22 25 0	4°40'49	8♉17	18°56	4°10	24°43	20°44	10°41	20°25	19°15	17°59	7°22	6° 2	29°35	2°56	S 28
S 29	22 28 57	5°38'49	20°25	20°37	5°23	25°22	20°47	10°42	20°28	19°14	17°58	7°20	5°59	29°41	2°54	S 29
M30	22 32 53	6°36'51	2♊46	22°16	6°35	26° 1	20°49	10°43	20°31	19°13	17°58	7°D19	5°56	29°48	2°52	M30
T 31	22 36 50	7♍34'56	15♊25	23♍55	7♎48	26♎40	20♉51	10♐45	20♋34	19♈11	17♉58	7♌19	5♌53	29♓55	2♈49	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	18n 5	10n24	5s16	21n37	0n47	12n25	1n30	2s52	0n12	16n15	1s 9	20s29	1n35	22n31	0n25	6n 7	1s40	2n36	15s10	18n21	18n25	4s56	4n35	3n22
M 2	17 50	13 57	5 4	21 22	0 56	11 58	1 30	3 8	0 11	16 17	1 9	20 29	1 35	22 31	0 25	6 7	1 40	2 36	15 10	18 21	18 26	4 54	4 35	3 22
T 3	17 35	16 57	4 37	21 6	1 5	11 31	1 29	3 23	0 10	16 19	1 9	20 29	1 35	22 30	0 25	6 7	1 40	2 35	15 10	18 21	18 27	4 52	4 34	3 22
W 4	17 19	19 12	3 54	20 46	1 13	11 4	1 28	3 38	0 9	16 20	1 9	20 29	1 35	22 30	0 25	6 6	1 40	2 35	15 11	18 21	18 27	4 50	4 34	3 22
T 5	17 3	20 26	2 58	20 24	1 20	10 36	1 27	3 53	0 8	16 22	1 9	20 30	1 35	22 30	0 25	6 6	1 40	2 35	15 11	18 21	18 28	4 48	4 33	3 22
F 6	16 47	20 29	1 50	19 59	1 26	10 8	1 26	4 9	0 8	16 24	1 9	20 30	1 34	22 29	0 25	6 6	1 40	2 35	15 11	18 21	18 29	4 46	4 33	3 22
S 7	16 30	19 14	0 32	19 32	1 31	9 40	1 25	4 24	0 7	16 25	1 10	20 30	1 34	22 29	0 25	6 6	1 40	2 35	15 12	18 21	18 30	4 43	4 32	3 22
S 8	16 13	16 40	0n48	19 3	1 35	9 11	1 24	4 39	0 6	16 27	1 10	20 30	1 34	22 28	0 25	6 6	1 40	2 34	15 12	18 21	18 31	4 41	4 32	3 22
M 9	15 56	12 59	2 7	18 32	1 39	8 42	1 23	4 55	0 5	16 28	1 10	20 30	1 34	22 28	0 25	6 5	1 40	2 34	15 12	18 21	18 31	4 39	4 31	3 22
T 10	15 39	8 28	3 18	17 59	1 42	8 13	1 22	5 10	0 4	16 30	1 10	20 30	1 33	22 27	0 25	6 5	1 40	2 34	15 12	18 21	18 32	4 37	4 31	3 22
W11	15 21	3 27	4 14	17 24	1 44	7 44	1 21	5 25	0 3	16 31	1 10	20 30	1 33	22 27	0 25	6 5	1 40	2 34	15 13	18 21	18 33	4 35	4 30	3 22
T 12	15 3	1s42	4 54	16 47	1 45	7 15	1 19	5 41	0 3	16 32	1 10	20 30	1 33	22 26	0 25	6 4	1 40	2 33	15 13	18 22	18 34	4 33	4 29	3 23
F 13	14 45	6 40	5 14	16 9	1 46	6 45	1 18	5 56	0 2	16 33	1 10	20 31	1 33	22 26	0 25	6 4	1 41	2 33	15 13	18 22	18 35	4 31	4 29	3 23
S 14	14 27	11 9	5 14	15 30	1 46	6 15	1 17	6 11	0 1	16 35	1 11	20 31	1 33	22 25	0 25	6 4	1 41	2 33	15 14	18 22	18 35	4 28	4 28	3 23
S 15	14 8	14 56	4 57	14 49	1 45	5 45	1 15	6 27	0 0	16 36	1 11	20 31	1 32	22 25	0 25	6 4	1 41	2 33	15 14	18 22	18 36	4 26	4 27	3 23
M16	13 49	17 51	4 23	14 8	1 44	5 15	1 13	6 42	0s 1	16 37	1 11	20 31	1 32	22 24	0 25	6 3	1 41	2 32	15 14	18 22	18 37	4 24	4 27	3 23
T 17	13 30	19 45	3 36	13 25	1 42	4 45	1 12	6 57	0 1	16 38	1 11	20 31	1 32	22 24	0 25	6 3	1 41	2 32	15 14	18 22	18 38	4 22	4 26	3 23
W18	13 11	20 35	2 39	12 42	1 39	4 14	1 10	7 12	0 2	16 39	1 11	20 32	1 32	22 24	0 25	6 3	1 41	2 32	15 15	18 21	18 39	4 20	4 25	3 23
T 19	12 52	20 22	1 36	11 58	1 36	3 44	1 8	7 28	0 3	16 40	1 11	20 32	1 32	22 23	0 25	6 2	1 41	2 31	15 15	18 21	18 39	4 18	4 24	3 23
F 20	12 32	19 8	0 29	11 14	1 33	3 13	1 6	7 43	0 4	16 41	1 12	20 32	1 31	22 23	0 25	6 2	1 41	2 31	15 15	18 21	18 40	4 15	4 24	3 23
S 21	12 12	17 2	0s39	10 29	1 29	2 43	1 4	7 58	0 5	16 42	1 12	20 33	1 31	22 22	0 25	6 1	1 41	2 31	15 16	18 21	18 41	4 13	4 23	3 23
S 22	11 52	14 11	1 44	9 44	1 24	2 12	1 2	8 13	0 5	16 43	1 12	20 33	1 31	22 22	0 25	6 1	1 41	2 31	15 16	18 21	18 42	4 11	4 22	3 23
M23	11 32	10 47	2 43	8 59	1 20	1 41	1 0	8 28	0 6	16 43	1 12	20 33	1 31	22 21	0 25	6 1	1 41	2 30	15 16	18 22	18 43	4 9	4 21	3 23
T 24	11 11	6 58	3 35	8 13	1 15	1 10	0 58	8 44	0 7	16 44	1 12	20 34	1 30	22 21	0 25	6 0	1 41	2 30	15 16	18 23	18 43	4 7	4 20	3 23
W25	10 51	2 54	4 17	7 27	1 9	0 39	0 56	8 59	0 8	16 45	1 12	20 34	1 30	22 21	0 25	6 0	1 41	2 30	15 17	18 24	18 44	4 5	4 19	3 23
T 26	10 30	1n15	4 49	6 42	1 3	0 8	0 54	9 14	0 8	16 45	1 13	20 34	1 30	22 20	0 26	5 59	1 41	2 29	15 17	18 25	18 45	4 2	4 18	3 23
F 27	10 9	5 23	5 8	5 56	0 57	0s23	0 52	9 29	0 9	16 46	1 13	20 35	1 30	22 20	0 26	5 59	1 41	2 29	15 17	18 26	18 46	4 0	4 18	3 23
S 28	9 48	9 20	5 13	5 10	0 51	0 54	0 49	9 44	0 10	16 47	1 13	20 35	1 30	22 19	0 26	5 59	1 41	2 29	15 18	18 26	18 46	3 58	4 17	3 23
S 29	9 27	12 57	5 5	4 24	0 45	1 25	0 47	9 59	0 11	16 47	1 13	20 35	1 29	22 19	0 26	5 58	1 41	2 28	15 18	18 27	18 47	3 56	4 16	3 23
M30	9 5	16 6	4 43	3 39	0 38	1 56	0 44	10 14	0 11	16 47	1 13	20 36	1 29	22 19	0 26	5 58	1 41	2 28	15 18	18 27	18 48	3 54	4 15	3 23
T 31	8n44	18n34	4s 7	2n54	0n31	2s27	0n42	10s29	0s12	16n48	1s13	20s36	1n29	22n18	0n26	5n57	1s41	2n28	15s18	18n27	18n49	3s51	4n14	3n23

Julian Day Number = 2403910.5, Delta T = 2.82 sec
Ecliptic obliquity = 23°27'17, Nutation = - 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°55'09, Lahiri = 22°02'09

ASTRODIENST EPHEMERIS for the year 1869
geocentric

SEPTEMBER 1869 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	22 40 46	8♍33'02	28♊25	25♍32	9♎ 1	27♎20	20♉53	10♐46	20♋36	19°R10	17°R58	7♌20	5♌50	0♈ 1	2°R47	W 1
T 2	22 44 43	9°31'11	11♋50	27° 8	10°13	27°59	20°54	10°48	20°39	19♈ 9	17♉57	7°21	5°47	0° 8	2♈44	T 2
F 3	22 48 40	10°29'21	25°42	28°42	11°26	28°39	20°56	10°50	20°42	19° 8	17°57	7°23	5°43	0°15	2°42	F 3
S 4	22 52 36	11°27'33	10♌ 2	0♎16	12°38	29°18	20°57	10°52	20°44	19° 7	17°57	7°R23	5°40	0°22	2°39	S 4
S 5	22 56 33	12°25'47	24°45	1°48	13°51	29°58	20°58	10°54	20°47	19° 5	17°56	7°22	5°37	0°28	2°37	S 5
M 6	23 0 29	13°24'03	9♍47	3°19	15° 3	0♏38	20°59	10°56	20°50	19° 4	17°56	7°19	5°34	0°35	2°34	M 6
T 7	23 4 26	14°22'21	24°59	4°49	16°16	1°18	21° 0	10°58	20°52	19° 3	17°55	7°15	5°31	0°42	2°32	T 7
W 8	23 8 22	15°20'40	10♎11	6°18	17°29	1°57	21° 0	11° 0	20°55	19° 1	17°55	7°10	5°27	0°48	2°29	W 8
T 9	23 12 19	16°19'01	25°13	7°45	18°41	2°37	21° 0	11° 3	20°57	19° 0	17°55	7° 4	5°24	0°55	2°26	T 9
F 10	23 16 15	17°17'24	9♏56	9°12	19°53	3°18	21°R 0	11° 5	20°59	18°59	17°54	6°59	5°21	1° 2	2°24	F 10
S 11	23 20 12	18°15'48	24°15	10°37	21° 6	3°58	21° 0	11° 8	21° 2	18°57	17°54	6°55	5°18	1° 8	2°21	S 11
S 12	23 24 9	19°14'14	8♐ 7	12° 0	22°18	4°38	21° 0	11°10	21° 4	18°56	17°53	6°53	5°15	1°15	2°18	S 12
M13	23 28 5	20°12'42	21°33	13°23	23°31	5°18	20°59	11°13	21° 6	18°55	17°53	6°D52	5°12	1°22	2°16	M13
T 14	23 32 2	21°11'11	4♑34	14°44	24°43	5°59	20°58	11°16	21° 9	18°53	17°52	6°53	5° 8	1°29	2°13	T 14
W15	23 35 58	22° 9'42	17°15	16° 3	25°55	6°39	20°57	11°19	21°11	18°52	17°51	6°54	5° 5	1°35	2°10	W15
T 16	23 39 55	23° 8'15	29°38	17°22	27° 7	7°20	20°56	11°22	21°13	18°50	17°51	6°55	5° 2	1°42	2° 8	T 16
F 17	23 43 51	24° 6'49	11♒50	18°39	28°20	8° 0	20°55	11°25	21°15	18°49	17°50	6°R55	4°59	1°49	2° 5	F 17
S 18	23 47 48	25° 5'25	23°52	19°54	29°32	8°41	20°53	11°28	21°17	18°47	17°50	6°54	4°56	1°55	2° 2	S 18
S 19	23 51 44	26° 4'02	5♓48	21° 7	0♏44	9°22	20°52	11°31	21°19	18°46	17°49	6°50	4°53	2° 2	1°59	S 19
M20	23 55 41	27° 2'42	17°40	22°19	1°56	10° 3	20°50	11°35	21°21	18°44	17°48	6°44	4°49	2° 9	1°57	M20
T 21	23 59 38	28° 1'23	29°31	23°30	3° 8	10°44	20°47	11°38	21°23	18°43	17°48	6°36	4°46	2°15	1°54	T 21
W22	0 3 34	29° 0'06	11♈23	24°38	4°20	11°25	20°45	11°42	21°25	18°41	17°47	6°26	4°43	2°22	1°51	W22
T 23	0 7 31	29°58'52	23°16	25°44	5°32	12° 6	20°43	11°45	21°27	18°40	17°46	6°16	4°40	2°29	1°48	T 23
F 24	0 11 27	0♎57'39	5♉13	26°49	6°44	12°47	20°40	11°49	21°29	18°38	17°46	6° 5	4°37	2°36	1°45	F 24
S 25	0 15 24	1°56'29	17°15	27°50	7°56	13°28	20°37	11°53	21°30	18°37	17°45	5°56	4°33	2°42	1°43	S 25
S 26	0 19 20	2°55'21	29°26	28°50	9° 8	14°10	20°34	11°57	21°32	18°35	17°44	5°49	4°30	2°49	1°40	S 26
M27	0 23 17	3°54'15	11♊47	29°47	10°20	14°51	20°30	12° 1	21°34	18°33	17°44	5°44	4°27	2°56	1°37	M27
T 28	0 27 13	4°53'12	24°23	0♏41	11°32	15°33	20°27	12° 5	21°35	18°32	17°43	5°42	4°24	3° 2	1°34	T 28
W29	0 31 10	5°52'11	7♋18	1°31	12°43	16°14	20°23	12° 9	21°37	18°30	17°42	5°D41	4°21	3° 9	1°32	W29
T 30	0 35 6	6♎51'12	20♋35	2♏19	13♏55	16♏56	20♉19	12♐13	21♋38	18♈28	17♉41	5♌42	4♌18	3♈16	1♈29	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	8n22	20n10	3s17	2n 8	0n24	2s58	0n39	10s44	0s13	16n48	1s14	20s37	1n29	22n18	0n26	5n57	1s41	2n27	15s19	18n27	18n50	3s49	4n13	3n23
T 2	8 0	20 41	2 15	1 24	0 16	3 29	0 37	10 58	0 13	16 48	1 14	20 37	1 29	22 17	0 26	5 56	1 41	2 27	15 19	18 27	18 50	3 47	4 12	3 23
F 3	7 38	19 59	1 3	0 39	0 9	4 0	0 34	11 13	0 14	16 49	1 14	20 38	1 28	22 17	0 26	5 56	1 42	2 27	15 19	18 26	18 51	3 45	4 11	3 23
S 4	7 16	17 59	0n14	0s 5	0 1	4 31	0 31	11 28	0 15	16 49	1 14	20 38	1 28	22 17	0 26	5 55	1 42	2 26	15 19	18 26	18 52	3 43	4 10	3 23
S 5	6 54	14 45	1 33	0 49	0s 6	5 2	0 29	11 43	0 16	16 49	1 14	20 39	1 28	22 16	0 26	5 55	1 42	2 26	15 20	18 26	18 53	3 41	4 9	3 23
M 6	6 32	10 29	2 47	1 32	0 14	5 32	0 26	11 57	0 16	16 49	1 14	20 39	1 28	22 16	0 26	5 54	1 42	2 26	15 20	18 27	18 54	3 38	4 8	3 23
T 7	6 9	5 31	3 50	2 15	0 22	6 3	0 23	12 12	0 17	16 49	1 15	20 40	1 28	22 16	0 26	5 54	1 42	2 25	15 20	18 28	18 54	3 36	4 7	3 23
W 8	5 47	0 12	4 37	2 58	0 30	6 33	0 20	12 26	0 18	16 49	1 15	20 40	1 27	22 15	0 26	5 53	1 42	2 25	15 21	18 30	18 55	3 34	4 6	3 23
T 9	5 24	5s 3	5 4	3 40	0 38	7 4	0 17	12 41	0 18	16 49	1 15	20 41	1 27	22 15	0 26	5 53	1 42	2 25	15 21	18 31	18 56	3 32	4 5	3 23
F 10	5 1	9 54	5 10	4 21	0 46	7 34	0 14	12 55	0 19	16 49	1 15	20 41	1 27	22 14	0 26	5 52	1 42	2 24	15 21	18 32	18 57	3 30	4 4	3 23
S 11	4 39	14 3	4 56	5 2	0 54	8 4	0 11	13 9	0 20	16 49	1 15	20 42	1 27	22 14	0 26	5 52	1 42	2 24	15 21	18 33	18 57	3 27	4 3	3 23
S 12	4 16	17 18	4 25	5 42	1 2	8 34	0 8	13 24	0 20	16 48	1 15	20 42	1 26	22 14	0 26	5 51	1 42	2 23	15 22	18 34	18 58	3 25	4 1	3 23
M13	3 53	19 31	3 41	6 22	1 10	9 4	0 5	13 38	0 21	16 48	1 16	20 43	1 26	22 13	0 26	5 50	1 42	2 23	15 22	18 34	18 59	3 23	4 0	3 23
T 14	3 30	20 36	2 46	7 1	1 18	9 33	0 2	13 52	0 22	16 48	1 16	20 43	1 26	22 13	0 26	5 50	1 42	2 23	15 22	18 34	19 0	3 21	3 59	3 23
W15	3 7	20 37	1 45	7 39	1 26	10 2	0s 1	14 6	0 22	16 47	1 16	20 44	1 26	22 13	0 26	5 49	1 42	2 22	15 22	18 34	19 0	3 18	3 58	3 23
T 16	2 44	19 36	0 39	8 16	1 34	10 32	0 5	14 20	0 23	16 47	1 16	20 45	1 26	22 13	0 26	5 49	1 42	2 22	15 23	18 33	19 1	3 16	3 57	3 23
F 17	2 20	17 41	0s26	8 53	1 42	11 0	0 8	14 34	0 24	16 46	1 16	20 45	1 25	22 12	0 26	5 48	1 42	2 22	15 23	18 33	19 2	3 14	3 56	3 23
S 18	1 57	15 0	1 30	9 29	1 50	11 29	0 11	14 47	0 24	16 46	1 16	20 46	1 25	22 12	0 26	5 48	1 42	2 21	15 23	18 34	19 3	3 12	3 55	3 23
S 19	1 34	11 42	2 29	10 4	1 58	11 57	0 14	15 1	0 25	16 45	1 16	20 46	1 25	22 12	0 26	5 47	1 42	2 21	15 23	18 35	19 4	3 10	3 54	3 23
M20	1 11	7 58	3 21	10 38	2 6	12 26	0 17	15 15	0 26	16 44	1 17	20 47	1 25	22 11	0 26	5 46	1 42	2 20	15 23	18 36	19 4	3 7	3 53	3 23
T 21	0 47	3 55	4 4	11 11	2 13	12 53	0 21	15 28	0 26	16 44	1 17	20 48	1 25	22 11	0 26	5 46	1 42	2 20	15 24	18 38	19 5	3 5	3 51	3 23
W22	0 24	0n15	4 37	11 44	2 21	13 21	0 24	15 42	0 27	16 43	1 17	20 48	1 24	22 11	0 26	5 45	1 42	2 20	15 24	18 41	19 6	3 3	3 50	3 23
T 23	0 0	4 26	4 57	12 15	2 28	13 48	0 27	15 55	0 28	16 42	1 17	20 49	1 24	22 11	0 26	5 44	1 42	2 19	15 24	18 43	19 7	3 1	3 49	3 23
F 24	0s23	8 28	5 5	12 45	2 35	14 15	0 31	16 8	0 28	16 41	1 17	20 50	1 24	22 10	0 26	5 44	1 42	2 19	15 24	18 46	19 7	2 58	3 48	3 23
S 25	0 46	12 12	4 59	13 13	2 41	14 42	0 34	16 21	0 29	16 40	1 17	20 50	1 24	22 10	0 26	5 43	1 42	2 19	15 25	18 48	19 8	2 56	3 47	3 23
S 26	1 10	15 29	4 40	13 41	2 48	15 8	0 37	16 34	0 30	16 39	1 17	20 51	1 24	22 10	0 26	5 43	1 42	2 18	15 25	18 50	19 9	2 54	3 46	3 23
M27	1 33	18 8	4 7	14 7	2 54	15 34	0 41	16 47	0 30	16 38	1 18	20 52	1 24	22 10	0 26	5 42	1 42	2 18	15 25	18 51	19 10	2 52	3 44	3 22
T 28	1 57	19 58	3 22	14 31	3 0	16 0	0 44	17 0	0 31	16 37	1 18	20 53	1 23	22 9	0 26	5 41	1 42	2 17	15 25	18 52	19 10	2 50	3 43	3 22
W29	2 20	20 50	2 26	14 54	3 5	16 25	0 48	17 12	0 31	16 36	1 18	20 53	1 23	22 9	0 26	5 41	1 42	2 17	15 25	18 52	19 11	2 47	3 42	3 22
T 30	2s43	20n34	1s20	15s16	3s10	16s50	0s51	17s25	0s32	16n35	1s18	20s54	1n23	22n 9	0n26	5n40	1s42	2n17	15s26	18n52	19n12	2s45	3n41	3n22

Julian Day Number = 2403941.5, Delta T = 2.72 sec
Ecliptic obliquity = 23°27'17, Nutation = - 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°55'13, Lahiri = 22°02'13

ASTRODIENST EPHEMERIS for the year 1869
geocentric

OCTOBER 1869 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	0 39 3	7♎50'16	4♌17	3♏ 2	15♏ 7	17♏38	20°R15	12♐17	21♋40	18°R27	17°R40	5°R42	4♌14	3♈22	1°R26	F 1
S 2	0 43 0	8°49'21	18°26	3°42	16°18	18°20	20♉11	12°21	21°41	18♈25	17♉40	5♌42	4°11	3°29	1♈23	S 2
S 3	0 46 56	9°48'29	3♍ 2	4°18	17°30	19° 1	20° 6	12°26	21°43	18°24	17°39	5°39	4° 8	3°36	1°21	S 3
M 4	0 50 53	10°47'40	18° 0	4°48	18°42	19°43	20° 2	12°30	21°44	18°22	17°38	5°34	4° 5	3°43	1°18	M 4
T 5	0 54 49	11°46'52	3♎14	5°13	19°53	20°25	19°57	12°35	21°45	18°20	17°37	5°26	4° 2	3°49	1°15	T 5
W 6	0 58 46	12°46'07	18°32	5°33	21° 5	21° 8	19°52	12°39	21°46	18°19	17°36	5°17	3°59	3°56	1°12	W 6
T 7	1 2 42	13°45'23	3♏45	5°47	22°16	21°50	19°47	12°44	21°48	18°17	17°35	5° 6	3°55	4° 3	1°10	T 7
F 8	1 6 39	14°44'42	18°40	5°R54	23°28	22°32	19°41	12°49	21°49	18°15	17°34	4°56	3°52	4° 9	1° 7	F 8
S 9	1 10 35	15°44'02	3♐11	5°54	24°39	23°14	19°36	12°53	21°50	18°14	17°33	4°48	3°49	4°16	1° 4	S 9
S 10	1 14 32	16°43'25	17°12	5°46	25°50	23°57	19°30	12°58	21°51	18°12	17°32	4°43	3°46	4°23	1° 2	S 10
M11	1 18 29	17°42'49	0♑43	5°31	27° 1	24°39	19°25	13° 3	21°52	18°10	17°31	4°40	3°43	4°30	0°59	M11
T 12	1 22 25	18°42'15	13°47	5° 7	28°13	25°22	19°19	13° 8	21°53	18° 9	17°30	4°D38	3°39	4°36	0°56	T 12
W13	1 26 22	19°41'42	26°26	4°35	29°24	26° 5	19°13	13°13	21°53	18° 7	17°30	4°38	3°36	4°43	0°54	W13
T 14	1 30 18	20°41'12	8♒46	3°55	0♐35	26°47	19° 6	13°18	21°54	18° 5	17°29	4°R38	3°33	4°50	0°51	T 14
F 15	1 34 15	21°40'43	20°52	3° 6	1°46	27°30	19° 0	13°24	21°55	18° 3	17°28	4°37	3°30	4°56	0°49	F 15
S 16	1 38 11	22°40'16	2♓49	2° 9	2°57	28°13	18°53	13°29	21°56	18° 2	17°27	4°34	3°27	5° 3	0°46	S 16
S 17	1 42 8	23°39'50	14°40	1° 6	4° 8	28°56	18°47	13°34	21°56	18° 0	17°26	4°28	3°24	5°10	0°44	S 17
M18	1 46 4	24°39'27	26°30	29♎57	5°19	29°39	18°40	13°40	21°57	17°58	17°25	4°20	3°20	5°16	0°41	M18
T 19	1 50 1	25°39'05	8♈21	28°44	6°30	0♐22	18°33	13°45	21°57	17°57	17°23	4° 8	3°17	5°23	0°39	T 19
W20	1 53 58	26°38'46	20°16	27°30	7°40	1° 5	18°26	13°51	21°58	17°55	17°22	3°55	3°14	5°30	0°36	W20
T 21	1 57 54	27°38'28	2♉15	26°15	8°51	1°48	18°19	13°56	21°58	17°54	17°21	3°40	3°11	5°37	0°34	T 21
F 22	2 1 51	28°38'12	14°20	25° 2	10° 2	2°31	18°12	14° 2	21°59	17°52	17°20	3°26	3° 8	5°43	0°31	F 22
S 23	2 5 47	29°37'59	26°32	23°54	11°12	3°15	18° 4	14° 7	21°59	17°50	17°19	3°13	3° 4	5°50	0°29	S 23
S 24	2 9 44	0♏37'47	8♊51	22°53	12°23	3°58	17°57	14°13	21°59	17°49	17°18	3° 3	3° 1	5°57	0°27	S 24
M25	2 13 40	1°37'38	21°21	22° 0	13°33	4°42	17°49	14°19	21°59	17°47	17°17	2°55	2°58	6° 3	0°25	M25
T 26	2 17 37	2°37'31	4♋ 2	21°17	14°43	5°25	17°42	14°25	21°59	17°45	17°16	2°50	2°55	6°10	0°22	T 26
W27	2 21 33	3°37'26	16°57	20°44	15°53	6° 9	17°34	14°31	22° 0	17°44	17°15	2°48	2°52	6°17	0°20	W27
T 28	2 25 30	4°37'23	0♌11	20°23	17° 4	6°52	17°26	14°37	22°R 0	17°42	17°14	2°48	2°49	6°24	0°18	T 28
F 29	2 29 27	5°37'23	13°44	20°D13	18°14	7°36	17°19	14°43	22° 0	17°41	17°13	2°48	2°45	6°30	0°16	F 29
S 30	2 33 23	6°37'25	27°41	20°15	19°24	8°20	17°11	14°49	21°59	17°39	17°12	2°47	2°42	6°37	0°14	S 30
S 31	2 37 20	7♏37'28	12♍ 1	20♎28	20♐34	9♐ 4	17♉ 3	14♐55	21♋59	17♈37	17♉11	2♌44	2♌39	6♈44	0♈12	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	3s 7	19n 5	0s 8	15s35	3s15	17s15	0s54	17s37	0s33	16n34	1s18	20s55	1n23	22n 9	0n26	5n39	1s42	2n16	15s26	18n51	19n13	2s43	3n40	3n22
S 2	3 30	16 23	1n 7	15 52	3 19	17 39	0 58	17 50	0 33	16 33	1 18	20 55	1 23	22 9	0 27	5 39	1 42	2 16	15 26	18 52	19 13	2 41	3 38	3 22
S 3	3 53	12 35	2 20	16 8	3 22	18 2	1 1	18 2	0 34	16 31	1 18	20 56	1 22	22 8	0 27	5 38	1 42	2 15	15 26	18 52	19 14	2 38	3 37	3 22
M 4	4 16	7 53	3 25	16 21	3 25	18 26	1 4	18 14	0 34	16 30	1 18	20 57	1 22	22 8	0 27	5 38	1 42	2 15	15 26	18 54	19 15	2 36	3 36	3 22
T 5	4 40	2 38	4 16	16 31	3 27	18 48	1 8	18 26	0 35	16 29	1 18	20 58	1 22	22 8	0 27	5 37	1 42	2 15	15 26	18 55	19 16	2 34	3 35	3 22
W 6	5 3	2s48	4 50	16 39	3 28	19 11	1 11	18 37	0 35	16 27	1 19	20 58	1 22	22 8	0 27	5 36	1 42	2 14	15 27	18 58	19 16	2 32	3 34	3 22
T 7	5 26	8 2	5 2	16 44	3 28	19 33	1 14	18 49	0 36	16 26	1 19	20 59	1 22	22 8	0 27	5 36	1 42	2 14	15 27	19 0	19 17	2 29	3 33	3 21
F 8	5 49	12 41	4 54	16 45	3 27	19 54	1 18	19 0	0 37	16 24	1 19	21 0	1 22	22 8	0 27	5 35	1 42	2 13	15 27	19 3	19 18	2 27	3 31	3 21
S 9	6 12	16 27	4 27	16 43	3 25	20 15	1 21	19 12	0 37	16 23	1 19	21 1	1 21	22 7	0 27	5 34	1 42	2 13	15 27	19 5	19 19	2 25	3 30	3 21
S 10	6 35	19 8	3 44	16 37	3 22	20 35	1 24	19 23	0 38	16 21	1 19	21 2	1 21	22 7	0 27	5 34	1 42	2 13	15 27	19 6	19 19	2 23	3 29	3 21
M11	6 57	20 37	2 50	16 27	3 17	20 55	1 27	19 34	0 38	16 20	1 19	21 2	1 21	22 7	0 27	5 33	1 42	2 12	15 27	19 7	19 20	2 20	3 28	3 21
T 12	7 20	20 57	1 48	16 13	3 10	21 15	1 31	19 45	0 39	16 18	1 19	21 3	1 21	22 7	0 27	5 32	1 42	2 12	15 27	19 7	19 21	2 18	3 27	3 21
W13	7 43	20 10	0 43	15 55	3 2	21 34	1 34	19 55	0 39	16 16	1 19	21 4	1 21	22 7	0 27	5 32	1 42	2 12	15 28	19 7	19 22	2 16	3 26	3 21
T 14	8 5	18 26	0s22	15 32	2 52	21 52	1 37	20 6	0 40	16 14	1 19	21 5	1 21	22 7	0 27	5 31	1 42	2 11	15 28	19 7	19 22	2 14	3 24	3 21
F 15	8 27	15 53	1 25	15 4	2 41	22 10	1 40	20 16	0 40	16 13	1 19	21 6	1 20	22 7	0 27	5 31	1 42	2 11	15 28	19 7	19 23	2 11	3 23	3 20
S 16	8 49	12 42	2 23	14 32	2 27	22 27	1 43	20 27	0 41	16 11	1 19	21 6	1 20	22 7	0 27	5 30	1 42	2 10	15 28	19 8	19 24	2 9	3 22	3 20
S 17	9 12	9 2	3 15	13 55	2 12	22 43	1 46	20 37	0 42	16 9	1 19	21 7	1 20	22 7	0 27	5 29	1 42	2 10	15 28	19 9	19 25	2 7	3 21	3 20
M18	9 34	5 2	3 58	13 15	1 55	22 59	1 49	20 46	0 42	16 7	1 19	21 8	1 20	22 7	0 27	5 29	1 42	2 10	15 28	19 11	19 25	2 4	3 20	3 20
T 19	9 55	0 49	4 30	12 32	1 37	23 15	1 52	20 56	0 43	16 5	1 19	21 9	1 20	22 7	0 27	5 28	1 42	2 9	15 28	19 14	19 26	2 2	3 19	3 20
W20	10 17	3n25	4 51	11 47	1 17	23 30	1 55	21 6	0 43	16 3	1 19	21 10	1 20	22 7	0 27	5 27	1 42	2 9	15 28	19 17	19 27	2 0	3 18	3 20
T 21	10 38	7 34	4 59	11 1	0 57	23 44	1 58	21 15	0 44	16 1	1 19	21 10	1 20	22 6	0 27	5 27	1 42	2 9	15 28	19 21	19 28	1 58	3 17	3 20
F 22	11 0	11 28	4 54	10 15	0 36	23 57	2 0	21 24	0 44	15 59	1 19	21 11	1 19	22 6	0 27	5 26	1 42	2 8	15 29	19 24	19 28	1 55	3 15	3 19
S 23	11 21	14 55	4 36	9 31	0 16	24 10	2 3	21 33	0 45	15 57	1 19	21 12	1 19	22 6	0 27	5 26	1 42	2 8	15 29	19 27	19 29	1 53	3 14	3 19
S 24	11 42	17 46	4 4	8 50	0n 5	24 22	2 6	21 42	0 45	15 55	1 19	21 13	1 19	22 6	0 27	5 25	1 42	2 8	15 29	19 29	19 30	1 51	3 13	3 19
M25	12 3	19 51	3 20	8 12	0 24	24 34	2 9	21 50	0 46	15 53	1 19	21 14	1 19	22 6	0 27	5 24	1 42	2 7	15 29	19 31	19 30	1 49	3 12	3 19
T 26	12 24	20 58	2 26	7 39	0 42	24 45	2 11	21 59	0 46	15 51	1 19	21 14	1 19	22 6	0 27	5 24	1 42	2 7	15 29	19 32	19 31	1 46	3 11	3 19
W27	12 44	21 1	1 23	7 11	0 59	24 55	2 14	22 7	0 47	15 49	1 19	21 15	1 19	22 6	0 27	5 23	1 42	2 7	15 29	19 33	19 32	1 44	3 10	3 19
T 28	13 4	19 54	0 14	6 50	1 14	25 5	2 16	22 15	0 47	15 47	1 19	21 16	1 19	22 6	0 27	5 23	1 42	2 6	15 29	19 33	19 33	1 42	3 9	3 18
F 29	13 24	17 38	0n58	6 34	1 27	25 14	2 18	22 22	0 47	15 45	1 19	21 17	1 18	22 7	0 27	5 22	1 42	2 6	15 29	19 33	19 33	1 39	3 8	3 18
S 30	13 44	14 17	2 7	6 24	1 39	25 22	2 21	22 30	0 48	15 42	1 19	21 18	1 18	22 7	0 27	5 21	1 42	2 6	15 29	19 33	19 34	1 37	3 7	3 18
S 31	14s 4	10n 0	3n11	6s19	1n49	25s30	2s23	22s37	0s48	15n40	1s19	21s18	1n18	22n 7	0n27	5n21	1s42	2n 5	15s29	19n34	19n35	1s35	3n 6	3n18

Julian Day Number = 2403971.5, Delta T = 2.63 sec
Ecliptic obliquity = 23°27'18, Nutation = - 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°55'17, Lahiri = 22°02'17

ASTRODIENST EPHEMERIS for the year 1869
geocentric

NOVEMBER 1869 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	2 41 16	8♏37'34	26♍42	20♎51	21♐43	9♐48	16°R55	15♐ 1	21°R59	17°R36	17°R10	2°R38	2♌36	6♈50	0°R10	M 1
T 2	2 45 13	9°37'42	11♎40	21°24	22°53	10°32	16♑47	15° 7	21♋59	17♈34	17♑ 8	2♌29	2°33	6°57	0♈ 8	T 2
W 3	2 49 9	10°37'52	26°47	22° 5	24° 3	11°16	16°39	15°13	21°59	17°33	17° 7	2°19	2°30	7° 4	0° 6	W 3
T 4	2 53 6	11°38'04	11♏52	22°54	25°12	12° 0	16°30	15°20	21°58	17°31	17° 6	2° 7	2°26	7°10	0° 4	T 4
F 5	2 57 2	12°38'18	26°46	23°50	26°22	12°44	16°22	15°26	21°58	17°30	17° 5	1°56	2°23	7°17	0° 2	F 5
S 6	3 0 59	13°38'33	11♐19	24°52	27°31	13°29	16°14	15°32	21°57	17°28	17° 4	1°46	2°20	7°24	0° 0	S 6
S 7	3 4 55	14°38'51	25°25	26° 0	28°41	14°13	16° 6	15°39	21°57	17°27	17° 3	1°39	2°17	7°31	29♓58	S 7
M 8	3 8 52	15°39'09	9♑ 3	27°12	29°50	14°57	15°58	15°45	21°56	17°26	17° 2	1°35	2°14	7°37	29°56	M 8
T 9	3 12 49	16°39'29	22°12	28°27	0♑59	15°42	15°50	15°52	21°56	17°24	17° 1	1°33	2°10	7°44	29°55	T 9
W10	3 16 45	17°39'51	4♒56	29°47	2° 8	16°26	15°41	15°58	21°55	17°23	16°59	1°D33	2° 7	7°51	29°53	W10
T 11	3 20 42	18°40'14	17°18	1♏ 9	3°16	17°11	15°33	16° 5	21°54	17°21	16°58	1°R33	2° 4	7°57	29°52	T 11
F 12	3 24 38	19°40'38	29°25	2°33	4°25	17°56	15°25	16°11	21°54	17°20	16°57	1°32	2° 1	8° 4	29°50	F 12
S 13	3 28 35	20°41'04	11♓21	3°59	5°34	18°40	15°17	16°18	21°53	17°19	16°56	1°30	1°58	8°11	29°48	S 13
S 14	3 32 31	21°41'31	23°12	5°27	6°42	19°25	15° 9	16°25	21°52	17°17	16°55	1°26	1°55	8°18	29°47	S 14
M15	3 36 28	22°41'59	5♈ 2	6°57	7°50	20°10	15° 1	16°31	21°51	17°16	16°54	1°19	1°51	8°24	29°46	M15
T 16	3 40 24	23°42'29	16°55	8°27	8°58	20°55	14°53	16°38	21°50	17°15	16°53	1° 9	1°48	8°31	29°44	T 16
W17	3 44 21	24°43'00	28°54	9°58	10° 6	21°40	14°45	16°45	21°49	17°13	16°52	0°57	1°45	8°38	29°43	W17
T 18	3 48 18	25°43'33	11♉ 1	11°31	11°14	22°25	14°37	16°51	21°48	17°12	16°50	0°44	1°42	8°44	29°42	T 18
F 19	3 52 14	26°44'07	23°17	13° 3	12°22	23°10	14°29	16°58	21°47	17°11	16°49	0°32	1°39	8°51	29°40	F 19
S 20	3 56 11	27°44'42	5♊42	14°36	13°29	23°55	14°21	17° 5	21°46	17°10	16°48	0°21	1°36	8°58	29°39	S 20
S 21	4 0 7	28°45'20	18°18	16°10	14°37	24°40	14°14	17°12	21°44	17° 9	16°47	0°12	1°32	9° 5	29°38	S 21
M22	4 4 4	29°45'58	1♋ 4	17°43	15°44	25°25	14° 6	17°19	21°43	17° 8	16°46	0° 5	1°29	9°11	29°37	M22
T 23	4 8 0	0♐46'38	14° 0	19°17	16°51	26°10	13°59	17°26	21°42	17° 6	16°45	0° 1	1°26	9°18	29°36	T 23
W24	4 11 57	1°47'20	27° 8	20°51	17°58	26°56	13°51	17°32	21°40	17° 5	16°44	0°D 0	1°23	9°25	29°35	W24
T 25	4 15 54	2°48'03	10♌30	22°25	19° 4	27°41	13°44	17°39	21°39	17° 4	16°43	0° 0	1°20	9°31	29°34	T 25
F 26	4 19 50	3°48'48	24° 5	24° 0	20°10	28°27	13°37	17°46	21°37	17° 3	16°42	0° 1	1°16	9°38	29°33	F 26
S 27	4 23 47	4°49'34	7♍56	25°34	21°17	29°12	13°30	17°53	21°36	17° 2	16°41	0°R 2	1°13	9°45	29°33	S 27
S 28	4 27 43	5°50'22	22° 3	27° 8	22°23	29°58	13°23	18° 0	21°34	17° 1	16°40	0° 0	1°10	9°52	29°32	S 28
M29	4 31 40	6°51'12	6♎25	28°42	23°28	0♑43	13°16	18° 7	21°33	17° 0	16°39	29♋57	1° 7	9°58	29°31	M29
T 30	4 35 36	7♐52'02	20♎59	0♐16	24♑34	1♑29	13♑ 9	18♐14	21♋31	16♈59	16♑38	29♋51	1♌ 4	10♈ 5	29♓31	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
M 1	14s23	5n 2	4n 4	6s20	1n57	25s36	2s25	22s44	0s49	15n38	1s19	21s19	1n18	22n 7	0n28	5n20	1s42	2n 5	15s29	19n35	19n36	1s33	3n 5	3n18
T 2	14 42	0s18	4 41	6 27	2 3	25 43	2 27	22 51	0 49	15 36	1 19	21 20	1 18	22 7	0 28	5 20	1 42	2 5	15 29	19 37	19 36	1 30	3 4	3 17
W 3	15 1	5 41	4 59	6 37	2 8	25 48	2 29	22 58	0 50	15 34	1 19	21 21	1 18	22 7	0 28	5 19	1 42	2 4	15 29	19 39	19 37	1 28	3 3	3 17
T 4	15 20	10 42	4 56	6 52	2 12	25 53	2 31	23 4	0 50	15 31	1 19	21 22	1 18	22 7	0 28	5 19	1 42	2 4	15 29	19 42	19 38	1 26	3 2	3 17
F 5	15 38	15 1	4 33	7 11	2 14	25 57	2 33	23 11	0 51	15 29	1 19	21 22	1 17	22 7	0 28	5 18	1 42	2 4	15 29	19 45	19 38	1 23	3 1	3 17
S 6	15 57	18 19	3 53	7 33	2 15	26 0	2 34	23 17	0 51	15 27	1 19	21 23	1 17	22 7	0 28	5 17	1 42	2 3	15 29	19 47	19 39	1 21	3 0	3 17
S 7	16 15	20 24	2 59	7 57	2 15	26 3	2 36	23 22	0 51	15 25	1 19	21 24	1 17	22 7	0 28	5 17	1 42	2 3	15 29	19 48	19 40	1 19	2 59	3 16
M 8	16 32	21 13	1 56	8 24	2 14	26 5	2 38	23 28	0 52	15 22	1 19	21 25	1 17	22 7	0 28	5 16	1 42	2 3	15 29	19 49	19 41	1 16	2 59	3 16
T 9	16 50	20 49	0 49	8 53	2 12	26 6	2 39	23 33	0 52	15 20	1 19	21 26	1 17	22 7	0 28	5 16	1 42	2 3	15 29	19 50	19 41	1 14	2 58	3 16
W10	17 7	19 20	0s18	9 23	2 9	26 7	2 40	23 38	0 53	15 18	1 18	21 26	1 17	22 8	0 28	5 15	1 42	2 2	15 29	19 50	19 42	1 12	2 57	3 16
T 11	17 23	16 58	1 23	9 55	2 6	26 6	2 42	23 43	0 53	15 16	1 18	21 27	1 17	22 8	0 28	5 15	1 42	2 2	15 29	19 50	19 43	1 10	2 56	3 16
F 12	17 40	13 54	2 22	10 27	2 2	26 6	2 43	23 48	0 54	15 13	1 18	21 28	1 17	22 8	0 28	5 14	1 42	2 2	15 29	19 50	19 43	1 7	2 55	3 15
S 13	17 56	10 19	3 15	11 1	1 58	26 4	2 44	23 52	0 54	15 11	1 18	21 29	1 17	22 8	0 28	5 14	1 42	2 2	15 29	19 50	19 44	1 5	2 54	3 15
S 14	18 12	6 21	3 58	11 35	1 53	26 2	2 45	23 56	0 54	15 9	1 18	21 30	1 16	22 8	0 28	5 13	1 42	2 1	15 29	19 51	19 45	1 3	2 54	3 15
M15	18 28	2 9	4 31	12 9	1 47	25 59	2 46	24 0	0 55	15 7	1 18	21 30	1 16	22 8	0 28	5 13	1 42	2 1	15 29	19 53	19 46	1 0	2 53	3 15
T 16	18 43	2n 8	4 53	12 43	1 42	25 55	2 46	24 4	0 55	15 4	1 18	21 31	1 16	22 9	0 28	5 12	1 42	2 1	15 29	19 55	19 46	0 58	2 52	3 15
W17	18 58	6 23	5 2	13 18	1 36	25 50	2 47	24 7	0 55	15 2	1 18	21 32	1 16	22 9	0 28	5 12	1 42	2 1	15 29	19 58	19 47	0 56	2 51	3 14
T 18	19 12	10 26	4 57	13 52	1 30	25 45	2 47	24 10	0 56	15 0	1 17	21 33	1 16	22 9	0 28	5 12	1 42	2 0	15 29	20 0	19 48	0 53	2 51	3 14
F 19	19 26	14 6	4 39	14 26	1 24	25 40	2 48	24 13	0 56	14 58	1 17	21 33	1 16	22 9	0 28	5 11	1 42	2 0	15 29	20 3	19 48	0 51	2 50	3 14
S 20	19 40	17 13	4 7	15 0	1 17	25 33	2 48	24 15	0 56	14 56	1 17	21 34	1 16	22 9	0 28	5 11	1 42	2 0	15 28	20 5	19 49	0 49	2 49	3 14
S 21	19 54	19 34	3 23	15 34	1 10	25 26	2 48	24 18	0 57	14 54	1 17	21 35	1 16	22 10	0 28	5 10	1 42	2 0	15 28	20 7	19 50	0 46	2 49	3 13
M22	20 7	20 59	2 28	16 7	1 4	25 18	2 48	24 20	0 57	14 52	1 17	21 36	1 16	22 10	0 28	5 10	1 42	2 0	15 28	20 9	19 51	0 44	2 48	3 13
T 23	20 20	21 19	1 24	16 39	0 57	25 10	2 48	24 21	0 58	14 50	1 17	21 36	1 16	22 10	0 28	5 10	1 42	1 59	15 28	20 10	19 51	0 42	2 47	3 13
W24	20 32	20 30	0 15	17 11	0 50	25 1	2 47	24 23	0 58	14 48	1 16	21 37	1 15	22 10	0 28	5 9	1 42	1 59	15 28	20 10	19 52	0 39	2 47	3 13
T 25	20 44	18 31	0n56	17 42	0 43	24 51	2 47	24 24	0 58	14 46	1 16	21 38	1 15	22 11	0 28	5 9	1 42	1 59	15 28	20 10	19 53	0 37	2 46	3 12
F 26	20 56	15 28	2 5	18 12	0 36	24 41	2 46	24 25	0 58	14 44	1 16	21 39	1 15	22 11	0 28	5 8	1 42	1 59	15 28	20 10	19 53	0 35	2 46	3 12
S 27	21 7	11 31	3 9	18 42	0 29	24 30	2 46	24 26	0 59	14 42	1 16	21 39	1 15	22 11	0 28	5 8	1 41	1 59	15 28	20 9	19 54	0 32	2 45	3 12
S 28	21 18	6 52	4 2	19 11	0 22	24 18	2 45	24 26	0 59	14 40	1 16	21 40	1 15	22 11	0 28	5 8	1 41	1 59	15 28	20 10	19 55	0 30	2 45	3 12
M29	21 28	1 45	4 41	19 38	0 15	24 6	2 44	24 27	0 59	14 38	1 15	21 41	1 15	22 12	0 28	5 7	1 41	1 58	15 27	20 10	19 55	0 28	2 44	3 12
T 30	21s38	3s31	5n 3	20s 6	0n 8	23s53	2s43	24s26	1s 0	14n36	1s15	21s41	1n15	22n12	0n28	5n 7	1s41	1n58	15s27	20n12	19n56	0s26	2n44	3n11

Julian Day Number = 2404002.5, Delta T = 2.53 sec
Ecliptic obliquity = 23°27'18, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°55'21, Lahiri = 22°02'22

ASTRODIENST EPHEMERIS for the year 1869
geocentric

DECEMBER 1869 — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	4 39 33	8♐52'55	5♏41	1♐51	25♑39	2♑15	13°R 2	18♐21	21°R30	16°R58	16°R36	29°R44	1♌ 1	10♈12	29°R30	W 1
T 2	4 43 29	9°53'48	20°22	3°25	26°44	3° 0	12♉56	18°28	21♋28	16♈58	16♉35	29♋35	0°57	10°18	29♓29	T 2
F 3	4 47 26	10°54'43	4♐57	4°59	27°49	3°46	12°49	18°35	21°26	16°57	16°34	29°27	0°54	10°25	29°29	F 3
S 4	4 51 23	11°55'39	19°16	6°33	28°54	4°32	12°43	18°43	21°24	16°56	16°33	29°20	0°51	10°32	29°29	S 4
S 5	4 55 19	12°56'36	3♑16	8° 7	29°58	5°18	12°37	18°50	21°22	16°55	16°32	29°15	0°48	10°39	29°28	S 5
M 6	4 59 16	13°57'34	16°51	9°41	1♒ 2	6° 4	12°31	18°57	21°21	16°54	16°31	29°13	0°45	10°45	29°28	M 6
T 7	5 3 12	14°58'33	0♒ 2	11°15	2° 6	6°50	12°26	19° 4	21°19	16°54	16°30	29°D12	0°42	10°52	29°28	T 7
W 8	5 7 9	15°59'32	12°49	12°49	3° 9	7°36	12°20	19°11	21°17	16°53	16°30	29°12	0°38	10°59	29°28	W 8
T 9	5 11 5	17° 0'32	25°15	14°23	4°12	8°22	12°15	19°18	21°15	16°52	16°29	29°14	0°35	11° 5	29°27	T 9
F 10	5 15 2	18° 1'32	7♓26	15°58	5°15	9° 8	12° 9	19°25	21°13	16°52	16°28	29°15	0°32	11°12	29°27	F 10
S 11	5 18 58	19° 2'33	19°24	17°32	6°17	9°54	12° 4	19°32	21°11	16°51	16°27	29°R16	0°29	11°19	29°D27	S 11
S 12	5 22 55	20° 3'35	1♈17	19° 6	7°19	10°41	11°59	19°39	21° 8	16°51	16°26	29°15	0°26	11°26	29°27	S 12
M13	5 26 52	21° 4'37	13° 8	20°41	8°21	11°27	11°55	19°46	21° 6	16°50	16°25	29°13	0°22	11°32	29°28	M13
T 14	5 30 48	22° 5'39	25° 3	22°15	9°22	12°13	11°50	19°53	21° 4	16°50	16°24	29° 8	0°19	11°39	29°28	T 14
W15	5 34 45	23° 6'42	7♉ 5	23°50	10°23	12°59	11°46	20° 1	21° 2	16°49	16°23	29° 3	0°16	11°46	29°28	W15
T 16	5 38 41	24° 7'46	19°18	25°24	11°24	13°46	11°41	20° 8	21° 0	16°49	16°22	28°56	0°13	11°52	29°28	T 16
F 17	5 42 38	25° 8'50	1♊43	26°59	12°24	14°32	11°37	20°15	20°58	16°48	16°21	28°50	0°10	11°59	29°29	F 17
S 18	5 46 34	26° 9'54	14°22	28°34	13°23	15°19	11°34	20°22	20°55	16°48	16°21	28°44	0° 7	12° 6	29°29	S 18
S 19	5 50 31	27°10'59	27°16	0♑10	14°22	16° 5	11°30	20°29	20°53	16°48	16°20	28°40	0° 3	12°13	29°29	S 19
M20	5 54 27	28°12'05	10♋23	1°45	15°21	16°52	11°27	20°36	20°51	16°47	16°19	28°37	0° 0	12°19	29°30	M20
T 21	5 58 24	29°13'11	23°44	3°21	16°19	17°38	11°23	20°43	20°48	16°47	16°18	28°D35	29♋57	12°26	29°30	T 21
W22	6 2 21	0♑14'17	7♌16	4°57	17°17	18°25	11°20	20°50	20°46	16°47	16°17	28°36	29°54	12°33	29°31	W22
T 23	6 6 17	1°15'24	20°58	6°33	18°14	19°12	11°17	20°57	20°44	16°47	16°17	28°37	29°51	12°39	29°32	T 23
F 24	6 10 14	2°16'32	4♍49	8° 9	19°11	19°58	11°15	21° 4	20°41	16°46	16°16	28°38	29°48	12°46	29°32	F 24
S 25	6 14 10	3°17'40	18°49	9°46	20° 7	20°45	11°12	21°11	20°39	16°46	16°15	28°40	29°44	12°53	29°33	S 25
S 26	6 18 7	4°18'48	2♎55	11°22	21° 2	21°32	11°10	21°18	20°36	16°46	16°14	28°R40	29°41	13° 0	29°34	S 26
M27	6 22 3	5°19'58	17° 6	12°59	21°57	22°19	11° 8	21°25	20°34	16°46	16°14	28°40	29°38	13° 6	29°35	M27
T 28	6 26 0	6°21'07	1♏21	14°36	22°51	23° 5	11° 6	21°32	20°31	16°D46	16°13	28°38	29°35	13°13	29°36	T 28
W29	6 29 56	7°22'18	15°36	16°14	23°45	23°52	11° 5	21°39	20°29	16°46	16°12	28°36	29°32	13°20	29°37	W29
T 30	6 33 53	8°23'28	29°48	17°51	24°37	24°39	11° 3	21°46	20°26	16°46	16°12	28°33	29°28	13°26	29°38	T 30
F 31	6 37 50	9♑24'39	13♐52	19♑29	25♒30	25♑26	11♉ 2	21♐53	20♋24	16♈46	16♉11	28♋30	29♋25	13♈33	29♓39	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	21s48	8s38	5n 5	20s32	0n 1	23s40	2s41	24s26	1s 0	14n34	1s15	21s42	1n15	22n12	0n28	5n 7	1s41	1n58	15s27	20n13	19n57	0s23	2n43	3n11
T 2	21 57	13 15	4 47	20 57	0s 6	23 26	2 40	24 25	1 0	14 33	1 15	21 43	1 15	22 13	0 28	5 6	1 41	1 58	15 27	20 15	19 57	0 21	2 43	3 11
F 3	22 6	17 2	4 10	21 21	0 13	23 12	2 38	24 25	1 0	14 31	1 14	21 43	1 15	22 13	0 28	5 6	1 41	1 58	15 27	20 17	19 58	0 19	2 42	3 11
S 4	22 14	19 44	3 18	21 44	0 19	22 57	2 37	24 23	1 1	14 29	1 14	21 44	1 15	22 13	0 28	5 6	1 41	1 58	15 27	20 18	19 59	0 16	2 42	3 10
S 5	22 22	21 10	2 15	22 6	0 26	22 41	2 35	24 22	1 1	14 28	1 14	21 45	1 15	22 14	0 29	5 6	1 41	1 58	15 27	20 19	20 0	0 14	2 42	3 10
M 6	22 29	21 18	1 6	22 27	0 32	22 26	2 33	24 20	1 1	14 26	1 14	21 45	1 14	22 14	0 29	5 5	1 41	1 58	15 26	20 20	20 0	0 11	2 41	3 10
T 7	22 36	20 14	0s 5	22 47	0 39	22 9	2 31	24 18	1 2	14 25	1 13	21 46	1 14	22 14	0 29	5 5	1 41	1 57	15 26	20 20	20 1	0 9	2 41	3 10
W 8	22 43	18 9	1 13	23 6	0 45	21 52	2 28	24 16	1 2	14 23	1 13	21 47	1 14	22 14	0 29	5 5	1 41	1 57	15 26	20 20	20 2	0 7	2 41	3 9
T 9	22 49	15 15	2 17	23 23	0 51	21 35	2 26	24 13	1 2	14 22	1 13	21 47	1 14	22 15	0 29	5 5	1 41	1 57	15 26	20 19	20 2	0 4	2 41	3 9
F 10	22 55	11 46	3 12	23 40	0 57	21 17	2 23	24 10	1 2	14 20	1 13	21 48	1 14	22 15	0 29	5 5	1 41	1 57	15 26	20 19	20 3	0 2	2 40	3 9
S 11	23 0	7 51	3 59	23 55	1 3	20 58	2 20	24 7	1 2	14 19	1 12	21 49	1 14	22 16	0 29	5 4	1 41	1 57	15 25	20 19	20 4	0n 0	2 40	3 9
S 12	23 5	3 41	4 35	24 9	1 8	20 40	2 17	24 4	1 3	14 18	1 12	21 49	1 14	22 16	0 29	5 4	1 41	1 57	15 25	20 19	20 4	0 3	2 40	3 8
M13	23 9	0n36	4 59	24 21	1 14	20 20	2 14	24 0	1 3	14 17	1 12	21 50	1 14	22 16	0 29	5 4	1 41	1 57	15 25	20 20	20 5	0 5	2 40	3 8
T 14	23 13	4 54	5 10	24 33	1 19	20 1	2 10	23 56	1 3	14 16	1 12	21 50	1 14	22 17	0 29	5 4	1 41	1 57	15 25	20 21	20 6	0 7	2 39	3 8
W15	23 17	9 2	5 8	24 43	1 24	19 41	2 7	23 52	1 3	14 14	1 11	21 51	1 14	22 17	0 29	5 4	1 41	1 57	15 25	20 22	20 6	0 10	2 39	3 8
T 16	23 19	12 53	4 51	24 52	1 29	19 21	2 3	23 48	1 3	14 13	1 11	21 52	1 14	22 17	0 29	5 4	1 41	1 57	15 24	20 23	20 7	0 12	2 39	3 7
F 17	23 22	16 15	4 21	24 59	1 34	19 0	1 59	23 43	1 4	14 12	1 11	21 52	1 14	22 18	0 29	5 4	1 41	1 57	15 24	20 24	20 8	0 14	2 39	3 7
S 18	23 24	18 56	3 38	25 5	1 38	18 39	1 55	23 38	1 4	14 12	1 11	21 53	1 14	22 18	0 29	5 3	1 41	1 57	15 24	20 26	20 8	0 17	2 39	3 7
S 19	23 25	20 43	2 43	25 10	1 43	18 17	1 51	23 33	1 4	14 11	1 10	21 53	1 14	22 18	0 29	5 3	1 40	1 57	15 24	20 27	20 9	0 19	2 39	3 7
M20	23 27	21 25	1 38	25 13	1 46	17 56	1 46	23 27	1 4	14 10	1 10	21 54	1 14	22 19	0 29	5 3	1 40	1 57	15 23	20 27	20 10	0 21	2 39	3 6
T 21	23 27	20 56	0 27	25 15	1 50	17 34	1 41	23 21	1 4	14 9	1 10	21 54	1 14	22 19	0 29	5 3	1 40	1 57	15 23	20 27	20 10	0 24	2 39	3 6
W22	23 27	19 14	0n47	25 15	1 54	17 12	1 36	23 15	1 4	14 9	1 9	21 55	1 14	22 20	0 29	5 3	1 40	1 57	15 23	20 27	20 11	0 26	2 39	3 6
T 23	23 27	16 24	2 0	25 14	1 57	16 49	1 31	23 9	1 5	14 8	1 9	21 55	1 14	22 20	0 29	5 3	1 40	1 57	15 23	20 27	20 12	0 28	2 39	3 6
F 24	23 26	12 38	3 6	25 12	2 0	16 27	1 26	23 2	1 5	14 7	1 9	21 56	1 14	22 20	0 29	5 3	1 40	1 57	15 22	20 27	20 12	0 31	2 39	3 5
S 25	23 25	8 8	4 2	25 7	2 2	16 4	1 20	22 55	1 5	14 7	1 8	21 56	1 13	22 21	0 29	5 3	1 40	1 57	15 22	20 27	20 13	0 33	2 39	3 5
S 26	23 23	3 11	4 43	25 2	2 4	15 40	1 15	22 48	1 5	14 7	1 8	21 57	1 13	22 21	0 29	5 3	1 40	1 57	15 22	20 26	20 14	0 36	2 39	3 5
M27	23 21	1s58	5 8	24 55	2 6	15 17	1 9	22 41	1 5	14 6	1 8	21 57	1 13	22 21	0 29	5 3	1 40	1 57	15 22	20 26	20 14	0 38	2 40	3 5
T 28	23 18	7 2	5 14	24 46	2 7	14 54	1 3	22 33	1 5	14 6	1 8	21 58	1 13	22 22	0 29	5 3	1 40	1 57	15 21	20 27	20 15	0 40	2 40	3 5
W29	23 15	11 43	5 1	24 36	2 9	14 30	0 56	22 25	1 5	14 6	1 7	21 58	1 13	22 22	0 29	5 3	1 40	1 58	15 21	20 27	20 16	0 43	2 40	3 4
T 30	23 11	15 44	4 29	24 24	2 9	14 6	0 50	22 17	1 5	14 6	1 7	21 59	1 13	22 23	0 29	5 3	1 40	1 58	15 21	20 28	20 16	0 45	2 40	3 4
F 31	23s 7	18s49	3n42	24s10	2s 9	13s42	0s43	22s 8	1s 6	14n 5	1s 7	21s59	1n13	22n23	0n29	5n 4	1s40	1n58	15s21	20n28	20n17	0n47	2n40	3n 4

Julian Day Number = 2404032.5, Delta T = 2.43 sec
Ecliptic obliquity = 23°27'17, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°55'25, Lahiri = 22°02'26