



Astrodienst Ephemeris Tables for the year 1859

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 1859
geocentric

JANUARY 1859

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 40 28	10♌ 5'59	4♌55	6♌27	14♌28	6♌45	13♌35	11♌2	0♌1	22♌21	5♌40	0♌42	2♌9	16♌14	14♌53	S 1
S 2	6 44 25	11° 7'10	16°55	5♌9	14♌23	7°31	13♌29	10♌58	29♌59	22°22	5♌40	0♌32	2° 5	16°20	14°57	S 2
M 3	6 48 21	12° 8'22	28°51	3°58	14°20	8°16	13°23	10°54	29°57	22°23	5°40	0°22	2° 2	16°27	15° 1	M 3
T 4	6 52 18	13° 9'33	10♌343	2°54	14°D20	9° 2	13°16	10°50	29°55	22°24	5°39	0°13	1°59	16°34	15° 5	T 4
W 5	6 56 14	14°10'44	22°32	1°59	14°22	9°47	13°10	10°46	29°54	22°25	5°39	0° 5	1°56	16°40	15° 9	W 5
T 6	7 0 11	15°11'55	4♌21	1°13	14°27	10°32	13° 4	10°42	29°52	22°26	5°39	29♌59	1°53	16°47	15°13	T 6
F 7	7 4 7	16°13'05	16°12	0°38	14°34	11°18	12°59	10°38	29°51	22°28	5°38	29°56	1°50	16°54	15°17	F 7
S 8	7 8 4	17°14'15	28° 7	0°12	14°44	12° 3	12°53	10°33	29°49	22°29	5°38	29°D55	1°46	17° 0	15°21	S 8
S 9	7 12 1	18°15'25	10♌8	29♌57	14°55	12°49	12°48	10°29	29°48	22°30	5°38	29°55	1°43	17° 7	15°25	S 9
M10	7 15 57	19°16'34	22°21	29°D50	15° 9	13°34	12°43	10°25	29°46	22°31	5°38	29°57	1°40	17°14	15°29	M10
T 11	7 19 54	20°17'43	4♌49	29°52	15°25	14°20	12°37	10°20	29°45	22°32	5°37	29°59	1°37	17°20	15°33	T 11
W12	7 23 50	21°18'51	17°37	0♌3	15°42	15° 5	12°33	10°16	29°44	22°34	5°37	29°R59	1°34	17°27	15°38	W12
T 13	7 27 47	22°19'58	0♌48	0°21	16° 2	15°50	12°28	10°11	29°43	22°35	5°37	29°59	1°30	17°34	15°42	T 13
F 14	7 31 43	23°21'05	14°27	0°46	16°24	16°36	12°23	10° 7	29°41	22°36	5°37	29°57	1°27	17°40	15°46	F 14
S 15	7 35 40	24°22'10	28°33	1°17	16°47	17°21	12°19	10° 2	29°40	22°38	5°37	29°54	1°24	17°47	15°50	S 15
S 16	7 39 36	25°23'16	13♌7	1°54	17°13	18° 6	12°15	9°57	29°39	22°39	5°37	29°49	1°21	17°54	15°55	S 16
M17	7 43 33	26°24'20	28° 4	2°35	17°40	18°51	12°11	9°53	29°38	22°41	5°37	29°44	1°18	18° 0	15°59	M17
T 18	7 47 30	27°25'24	13♌16	3°22	18° 9	19°37	12° 7	9°48	29°37	22°42	5°37	29°39	1°15	18° 7	16° 3	T 18
W19	7 51 26	28°26'27	28°33	4°12	18°39	20°22	12° 4	9°43	29°36	22°44	5°37	29°35	1°11	18°14	16° 8	W19
T 20	7 55 23	29°27'29	13♌45	5° 6	19°11	21° 7	12° 0	9°38	29°35	22°45	5°D37	29°33	1° 8	18°21	16°12	T 20
F 21	7 59 19	0♌28'31	28°42	6° 4	19°44	21°52	11°57	9°34	29°34	22°47	5°37	29°D32	1° 5	18°27	16°16	F 21
S 22	8 3 16	1°29'31	13♌16	7° 5	20°19	22°37	11°54	9°29	29°33	22°48	5°37	29°32	1° 2	18°34	16°21	S 22
S 23	8 7 12	2°30'32	27°24	8° 8	20°55	23°22	11°51	9°24	29°32	22°50	5°37	29°34	0°59	18°41	16°25	S 23
M24	8 11 9	3°31'31	11♌4	9°14	21°33	24° 8	11°48	9°19	29°32	22°51	5°37	29°36	0°56	18°47	16°30	M24
T 25	8 15 5	4°32'31	24°18	10°22	22°11	24°53	11°46	9°14	29°31	22°53	5°37	29°37	0°52	18°54	16°34	T 25
W26	8 19 2	5°33'29	7♌8	11°32	22°51	25°38	11°44	9° 9	29°30	22°55	5°37	29°R37	0°49	19° 1	16°38	W26
T 27	8 22 59	6°34'27	19°38	12°44	23°33	26°23	11°42	9° 4	29°30	22°56	5°37	29°36	0°46	19° 7	16°43	T 27
F 28	8 26 55	7°35'25	1♌52	13°58	24°15	27° 8	11°40	8°59	29°29	22°58	5°37	29°35	0°43	19°14	16°47	F 28
S 29	8 30 52	8°36'22	13°55	15°13	24°58	27°53	11°38	8°55	29°29	23° 0	5°38	29°32	0°40	19°21	16°52	S 29
S 30	8 34 48	9°37'18	25°50	16°30	25°43	28°37	11°37	8°50	29°28	23° 2	5°38	29°29	0°36	19°27	16°56	S 30
M31	8 38 45	10♌38'13	7♌40	17♌49	26♌28	29♌22	11♌36	8♌45	29♌28	23♌3	5♌38	29♌25	0♌33	19♌34	17♌1	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	23s 5	26s 8	5s 5	20s26	2n53	18s 0	4n35	9s53	0s55	21n54	0s33	18n11	0n44	20n 1	0s10	4s10	1s14	2s 9	16s28	11s14	10s43	26s 9	10s20	6n19	
S 2	23 0	27 41	4 54	20 19	3 2	17 53	4 41	9 35	0 54	21 53	0 33	18 12	0 44	20 0	0 10	4 9	1 13	2 8	16 28	11 17	10 44	26 7	10 19	6 19	
M 3	22 54	27 57	4 30	20 15	3 9	17 47	4 47	9 17	0 53	21 53	0 33	18 13	0 44	20 0	0 10	4 9	1 13	2 8	16 27	11 21	10 46	26 6	10 18	6 19	
T 4	22 49	26 55	3 54	20 12	3 14	17 42	4 53	8 59	0 52	21 52	0 33	18 14	0 44	20 0	0 10	4 8	1 13	2 8	16 27	11 24	10 47	26 4	10 17	6 18	
W 5	22 42	24 40	3 8	20 10	3 16	17 37	4 58	8 41	0 51	21 52	0 33	18 16	0 44	19 59	0 10	4 8	1 13	2 8	16 27	11 27	10 48	26 3	10 16	6 18	
T 6	22 36	21 21	2 14	20 11	3 17	17 33	5 2	8 23	0 50	21 51	0 32	18 17	0 44	19 59	0 10	4 7	1 13	2 8	16 26	11 29	10 49	26 2	10 16	6 18	
F 7	22 28	17 10	1 14	20 13	3 15	17 30	5 6	8 5	0 49	21 51	0 32	18 18	0 45	19 59	0 9	4 7	1 13	2 7	16 26	11 30	10 50	26 0	10 15	6 18	
S 8	22 21	12 18	0 10	20 16	3 11	17 28	5 9	7 47	0 48	21 50	0 32	18 19	0 45	19 59	0 9	4 7	1 13	2 7	16 26	11 31	10 51	25 59	10 14	6 18	
S 9	22 13	6 55	0n55	20 21	3 6	17 26	5 12	7 29	0 47	21 50	0 32	18 21	0 45	19 58	0 9	4 6	1 13	2 7	16 25	11 30	10 52	25 57	10 13	6 17	
M10	22 4	1 13	1 59	20 27	3 0	17 25	5 15	7 10	0 46	21 49	0 32	18 22	0 45	19 58	0 9	4 6	1 13	2 7	16 25	11 30	10 53	25 56	10 12	6 17	
T 11	21 55	4n39	2 58	20 34	2 53	17 25	5 17	6 52	0 45	21 49	0 31	18 23	0 45	19 58	0 9	4 5	1 13	2 6	16 25	11 29	10 55	25 54	10 11	6 17	
W12	21 46	10 28	3 51	20 42	2 45	17 25	5 18	6 33	0 44	21 48	0 31	18 25	0 45	19 57	0 9	4 4	1 13	2 6	16 24	11 29	10 56	25 53	10 10	6 17	
T 13	21 36	16 1	4 32	20 51	2 37	17 26	5 19	6 15	0 43	21 48	0 31	18 26	0 45	19 57	0 9	4 4	1 13	2 6	16 24	11 29	10 57	25 51	10 9	6 17	
F 14	21 26	20 58	5 0	20 59	2 28	17 27	5 20	5 57	0 42	21 47	0 31	18 27	0 46	19 57	0 9	4 3	1 13	2 5	16 24	11 30	10 58	25 50	10 8	6 16	
S 15	21 16	24 55	5 12	21 9	2 19	17 29	5 21	5 38	0 41	21 47	0 31	18 29	0 46	19 57	0 9	4 3	1 13	2 5	16 23	11 31	10 59	25 48	10 7	6 16	
S 16	21 5	27 24	5 3	21 18	2 9	17 31	5 21	5 19	0 40	21 47	0 30	18 30	0 46	19 56	0 9	4 2	1 13	2 5	16 23	11 33	11 0	25 46	10 5	6 16	
M17	20 53	28 1	4 35	21 27	1 59	17 34	5 21	5 1	0 39	21 46	0 30	18 32	0 46	19 56	0 9	4 2	1 13	2 5	16 23	11 35	11 1	25 45	10 4	6 16	
T 18	20 42	26 33	3 46	21 36	1 49	17 37	5 20	4 42	0 38	21 46	0 30	18 33	0 46	19 56	0 9	4 1	1 13	2 4	16 22	11 36	11 3	25 43	10 3	6 16	
W19	20 29	23 6	2 42	21 44	1 39	17 40	5 19	4 24	0 37	21 46	0 30	18 34	0 46	19 56	0 9	4 0	1 13	2 4	16 22	11 38	11 4	25 42	10 2	6 15	
T 20	20 17	18 5	1 25	21 52	1 30	17 44	5 18	4 5	0 36	21 46	0 30	18 36	0 46	19 56	0 9	4 0	1 13	2 4	16 21	11 38	11 5	25 40	10 1	6 15	
F 21	20 4	12 1	0 5	22 0	1 20	17 48	5 17	3 46	0 35	21 45	0 29	18 37	0 46	19 55	0 9	3 59	1 13	2 3	16 21	11 39	11 6	25 39	10 0	6 15	
S 22	19 51	5 26	1s15	22 7	1 10	17 52	5 15	3 28	0 35	21 45	0 29	18 39	0 47	19 55	0 9	3 58	1 13	2 3	16 21	11 39	11 7	25 37	9 59	6 15	
S 23	19 37	1s13	2 27	22 13	1 0	17 56	5 14	3 9	0 34	21 45	0 29	18 40	0 47	19 55	0 9	3 58	1 13	2 3	16 20	11 38	11 8	25 35	9 58	6 15	
M24	19 23	7 35	3 29	22 18	0 50	18 0	5 12	2 50	0 33	21 45	0 29	18 41	0 47	19 55	0 9	3 57	1 13	2 2	16 20	11 37	11 9	25 34	9 56	6 15	
T 25	19 9	13 25	4 17	22 23	0 41	18 5	5 9	2 31	0 32	21 45	0 28	18 43	0 47	19 55	0 9	3 57	1 13	2 2	16 20	11 37	11 10	25 32	9 55	6 15	
W26	18 54	18 29	4 51	22 26	0 32	18 10	5 7	2 13	0 31	21 45	0 28	18 44	0 47	19 55	0 9	3 56	1 13	2 1	16 19	11 37	11 12	25 31	9 54	6 15	
T 27	18 39	22 38	5 10	22 29	0 22	18 14	5 4	1 54	0 30	21 45	0 28	18 46	0 47	19 55	0 9	3 55	1 13	2 1	16 19	11 37	11 13	25 29	9 53	6 14	
F 28	18 23	25 41	5 14	22 30	0 13	18 19	5 1	1 35	0 29	21 45	0 28	18 47	0 47	19 55	0 9	3 54	1 13	2 1	16 19	11 38	11 14	25 27	9 52	6 14	
S 29	18 8	27 32	5 5	22 31	0 5	18 24	4 58	1 17	0 28	21 45	0 28	18 48	0 47	19 54	0 9	3 54	1 13	2 0	16 18	11 39	11 15	25 26	9 50	6 14	
S 30	17 51	28 6	4 42	22 30	0s 4	18 28	4 55	0 58	0 27	21 45	0 27	18 50	0 47	19 54	0 9	3 53	1 13	2 0	16 18	11 40	11 16	25 24	9 49	6 14	
M31	17s35	27s22	4s 8	22s29	0s12	18s33	4n52	0s39	0s26	21n45	0s27	18n51	0n48	19n54	0s 9	3s52	1s13	1s59	16s18	11s41	11s17	25s23	9s48	6n14	

ASTRODIENST EPHEMERIS for the year 1859

geocentric

FEBRUARY 1859

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 42 41	11 ³⁹ 07	19 ³ 29	19 ³ 8	27 ²⁷ 14	0 ⁷ 7	11 ³ 35	8 ⁸ 40	29 ² 28	23 ⁵ 5	5 ³ 38	29 ² 22	0 ³ 30	19 ³ 41	17 ⁵ 5	T 1
W 2	8 46 38	12 ⁴⁰ 00	1 ³ 19	20 ² 29	28 ² 2	0 ⁵ 52	11 ³ 34	8 ⁸ 35	29 ² 27	23 ⁷ 7	5 ³ 39	29 ² 20	0 ² 27	19 ⁴ 47	17 ¹⁰ 10	W 2
T 3	8 50 35	13 ⁴⁰ 52	13 ¹² 12	21 ⁵ 51	28 ⁵ 50	1 ³ 37	11 ³ 33	8 ⁸ 30	29 ² 27	23 ⁹ 9	5 ³ 39	29 ² 18	0 ² 24	19 ⁵ 54	17 ¹⁴ 14	T 3
F 4	8 54 31	14 ⁴¹ 43	25 ⁹ 9	23 ¹⁴ 14	29 ³ 39	2 ² 22	11 ³ 33	8 ⁸ 25	29 ² 27	23 ¹¹ 11	5 ³ 39	29 ² D17	0 ² 21	20 ¹ 1	17 ¹⁹ 19	F 4
S 5	8 58 28	15 ⁴² 33	7 ¹⁴ 14	24 ³ 39	0 ³ 28	3 ⁶ 6	11 ³ D33	8 ⁸ 20	29 ² 27	23 ¹³ 13	5 ⁴ 40	29 ² 18	0 ¹ 17	20 ⁷ 7	17 ²³ 23	S 5
S 6	9 2 24	16 ⁴³ 21	19 ² 27	26 ⁴ 4	1 ¹⁹ 19	3 ⁵ 51	11 ³ 33	8 ⁸ 15	29 ² 27	23 ¹⁴ 14	5 ⁴ 40	29 ² 18	0 ¹⁴ 14	20 ¹⁴ 14	17 ²⁸ 28	S 6
M 7	9 6 21	17 ⁴⁴ 08	1 ¹⁹ 50	27 ³ 30	2 ¹⁰ 10	4 ³ 36	11 ³ 33	8 ⁸ 11	29 ² D27	23 ¹⁶ 16	5 ⁴ 40	29 ² 19	0 ¹¹ 11	20 ²¹ 21	17 ³² 32	M 7
T 8	9 10 17	18 ⁴⁴ 53	14 ² 28	28 ⁵ 57	3 ² 2	5 ² 20	11 ³ 33	8 ⁸ 6	29 ² 27	23 ¹⁸ 18	5 ⁴ 41	29 ² 20	0 ⁸ 8	20 ²⁷ 27	17 ³⁷ 37	T 8
W 9	9 14 14	19 ⁴⁵ 37	27 ²¹ 21	0 ²⁵ 25	3 ⁵ 55	6 ⁵ 5	11 ³ 34	8 ⁸ 1	29 ² 27	23 ²⁰ 20	5 ⁴ 41	29 ² 21	0 ⁵ 5	20 ³⁴ 34	17 ⁴¹ 41	W 9
T 10	9 18 10	20 ⁴⁶ 19	10 ³ 32	1 ⁵ 55	4 ⁴ 48	6 ⁵ 50	11 ³ 35	7 ⁵ 56	29 ² 27	23 ²² 22	5 ⁴ 42	29 ² 22	0 ² 2	20 ⁴¹ 41	17 ⁴⁶ 46	T 10
F 11	9 22 7	21 ⁴⁶ 59	24 ⁴ 4	3 ² 25	5 ⁴ 42	7 ³ 34	11 ³ 36	7 ⁵ 52	29 ² 27	23 ²⁴ 24	5 ⁴ 42	29 ² R22	29 ² 58	20 ⁴⁷ 47	17 ⁵⁰ 50	F 11
S 12	9 26 4	22 ⁴⁷ 38	7 ¹¹ 58	4 ⁵ 55	6 ³ 36	8 ¹ 19	11 ³ 37	7 ⁴ 47	29 ² 28	23 ²⁶ 26	5 ⁴ 43	29 ² 22	29 ² 55	20 ⁵⁴ 54	17 ⁵⁵ 55	S 12
S 13	9 30 0	23 ⁴⁸ 16	22 ¹⁴ 14	6 ² 27	7 ³ 32	9 ³ 3	11 ³ 38	7 ⁴ 42	29 ² 28	23 ²⁸ 28	5 ⁴ 43	29 ² 21	29 ² 52	21 ¹ 1	17 ⁵⁹ 59	S 13
M14	9 33 57	24 ⁴⁸ 51	6 ² 29	8 ⁰ 0	8 ² 27	9 ⁴ 8	11 ⁴ 40	7 ³ 38	29 ² 28	23 ³⁰ 30	5 ⁴ 44	29 ² 21	29 ² 49	21 ⁷ 7	18 ⁴ 4	M14
T 15	9 37 53	25 ⁴⁹ 25	21 ³ 39	9 ³ 33	9 ² 23	10 ³ 32	11 ⁴ 42	7 ³ 33	29 ² 29	23 ³² 32	5 ⁴ 44	29 ² 20	29 ² 46	21 ¹⁴ 14	18 ⁸ 8	T 15
W16	9 41 50	26 ⁴⁹ 57	6 ² 39	11 ⁸ 8	10 ² 20	11 ¹ 16	11 ⁴ 44	7 ² 29	29 ² 29	23 ³⁴ 34	5 ⁴ 45	29 ² 20	29 ² 42	21 ²¹ 21	18 ¹³ 13	W16
T 17	9 45 46	27 ⁵⁰ 27	21 ³ 38	12 ⁴ 43	11 ¹ 17	12 ¹ 1	11 ⁴ 46	7 ² 24	29 ² 30	23 ³⁷ 37	5 ⁴ 45	29 ² 20	29 ² 39	21 ²⁸ 28	18 ¹⁷ 17	T 17
F 18	9 49 43	28 ⁵⁰ 56	6 ¹¹ 39	14 ² 20	12 ¹ 15	12 ⁴ 5	11 ⁴ 48	7 ² 20	29 ² 30	23 ³⁹ 39	5 ⁴ 46	29 ² 20	29 ² 36	21 ³⁴ 34	18 ²² 22	F 18
S 19	9 53 39	29 ⁵¹ 23	21 ⁶ 6	15 ⁵ 57	13 ¹ 13	13 ² 29	11 ⁵ 51	7 ¹ 15	29 ² 31	23 ⁴¹ 41	5 ⁴ 47	29 ² 20	29 ² 33	21 ⁴¹ 41	18 ²⁶ 26	S 19
S 20	9 57 36	0 ⁵ 51'48	5 ² 20	17 ³ 35	14 ¹ 12	14 ¹ 13	11 ⁵ 54	7 ¹ 11	29 ² 32	23 ⁴³ 43	5 ⁴ 47	29 ² 20	29 ² 30	21 ⁴⁸ 48	18 ³⁰ 30	S 20
M21	10 1 33	1 ⁵ 52'13	19 ¹⁰ 10	19 ¹⁴ 14	15 ¹ 11	14 ⁵ 58	11 ⁵ 57	7 ⁰ 7	29 ² 33	23 ⁴⁵ 45	5 ⁴ 48	29 ² 20	29 ² 27	21 ⁵⁴ 54	18 ³⁵ 35	M21
T 22	10 5 29	2 ⁵ 52'35	2 ¹¹ 33	20 ⁵ 54	16 ¹ 11	15 ⁴ 42	12 ⁰ 0	7 ³ 3	29 ² 33	23 ⁴⁷ 47	5 ⁴ 49	29 ² 19	29 ² 23	22 ¹ 1	18 ³⁹ 39	T 22
W23	10 9 26	3 ⁵ 52'57	15 ³ 31	22 ³ 35	17 ¹ 11	16 ² 26	12 ³ 3	6 ⁵ 59	29 ² 34	23 ⁴⁹ 49	5 ⁴ 49	29 ² 19	29 ² 20	22 ⁸ 8	18 ⁴⁴ 44	W23
T 24	10 13 22	4 ⁵ 53'17	28 ⁶ 6	24 ¹ 17	18 ¹ 11	17 ¹ 10	12 ⁷ 7	6 ⁵ 55	29 ² 35	23 ⁵¹ 51	5 ⁵ 50	29 ² 19	29 ² 17	22 ¹⁴ 14	18 ⁴⁸ 48	T 24
F 25	10 17 19	5 ⁵ 53'35	10 ² 23	26 ⁰ 0	19 ¹ 12	17 ⁵ 54	12 ¹⁰ 10	6 ⁵ 51	29 ² 36	23 ⁵⁴ 54	5 ⁵ 51	29 ² D19	29 ² 14	22 ²¹ 21	18 ⁵² 52	F 25
S 26	10 21 15	6 ⁵ 53'52	22 ² 27	27 ⁴ 44	20 ¹ 13	18 ³ 38	12 ¹⁴ 14	6 ⁴ 47	29 ² 37	23 ⁵⁶ 56	5 ⁵ 52	29 ² 19	29 ² 11	22 ²⁸ 28	18 ⁵⁷ 57	S 26
S 27	10 25 12	7 ⁵ 54'08	4 ³ 20	29 ² 29	21 ¹ 14	19 ² 22	12 ¹⁸ 18	6 ⁴ 43	29 ² 38	23 ⁵⁸ 58	5 ⁵ 52	29 ² 20	29 ² 8	22 ³⁴ 34	19 ¹ 1	S 27
M28	10 29 8	8 ⁵ 54'22	16 ³ 9	1 ¹ 15	22 ³ 16	20 ¹ 6	12 ¹¹ 23	6 ⁴ 39	29 ² 39	24 ⁰ 0	5 ⁵ 53	29 ² 20	29 ² 4	22 ³⁴ 34	19 ⁵ 5	M28

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	17s18	25s23	3s23	22s26	0s20	18s38	4n48	0s20	0s25	21n45	0s27	18n53	0n48	19n54	0s9	3s52	1s13	1s59	16s17	11s42	11s18	25s21	9s47	6n14	
W 2	17 1 22 18	2 29 22 22	0 28 18 42	4 45 0 2	0 25 21 45	0 27 18 54	0 48 19 54	0 9 3 51	1 13 1 59	16 17 11 43	11 19 25 19	9 45 6 14													
T 3	16 44 18 17	1 28 22 16	0 36 18 47	4 41 0n17	0 24 21 45	0 27 18 55	0 48 19 54	0 9 3 50	1 13 1 58	16 17 11 44	11 21 25 18	9 44 6 14													
F 4	16 26 13 30	0 23 22 10	0 43 18 51	4 37 0 35	0 23 21 45	0 26 18 57	0 48 19 54	0 9 3 49	1 13 1 58	16 16 11 44	11 22 25 16	9 43 6 14													
S 5	16 8 8 11	0n44 22 2	0 50 18 55	4 33 0 54	0 22 21 45	0 26 18 58	0 48 19 54	0 9 3 49	1 13 1 57	16 16 11 44	11 23 25 14	9 42 6 14													
S 6	15 50 2 30	1 49 21 53	0 57 18 59	4 29 1 13	0 21 21 45	0 26 18 59	0 48 19 54	0 9 3 48	1 13 1 57	16 15 11 44	11 24 25 13	9 40 6 14													
M 7	15 32 3n21	2 51 21 43	1 4 19 2	4 24 1 31	0 20 21 46	0 26 19 1	0 48 19 54	0 9 3 47	1 13 1 56	16 15 11 43	11 25 25 11	9 39 6 14													
T 8	15 13 9 10	3 45 21 32	1 10 19 5	4 20 1 50	0 19 21 46	0 26 19 2	0 48 19 54	0 9 3 46	1 13 1 56	16 15 11 43	11 26 25 9	9 38 6 14													
W 9	14 54 14 43	4 29 21 19	1 16 19 9	4 16 2 8	0 18 21 46	0 25 19 3	0 48 19 54	0 9 3 45	1 13 1 55	16 14 11 42	11 27 25 7	9 36 6 14													
T 10	14 35 19 45	5 1 21 5	1 22 19 11	4 11 2 27	0 18 21 47	0 25 19 5	0 48 19 54	0 9 3 45	1 13 1 55	16 14 11 42	11 28 25 6	9 35 6 14													
F 11	14 15 23 54	5 16 20 49	1 27 19 14	4 6 2 45	0 17 21 47	0 25 19 6	0 49 19 54	0 9 3 44	1 13 1 55	16 14 11 42	11 29 25 4	9 34 6 14													
S 12	13 56 26 49	5 14 20 33	1 32 19 16	4 2 3 3	0 16 21 47	0 25 19 7	0 49 19 54	0 9 3 43	1 13 1 54	16 13 11 42	11 31 25 2	9 32 6 14													
S 13	13 36 28 6	4 53 20 15	1 37 19 18	3 57 3 22	0 15 21 48	0 25 19 9	0 49 19 55	0 9 3 42	1 12 1 54	16 13 11 42	11 32 25 1	9 31 6 14													
M14	13 16 27 29	4 12 19 55	1 42 19 20	3 52 3 40	0 14 21 48	0 24 19 10	0 49 19 55	0 9 3 41	1 12 1 53	16 13 11 43	11 33 24 59	9 30 6 14													
T 15	12 55 24 55	3 14 19 34	1 46 19 21	3 47 3 58	0 13 21 49	0 24 19 11	0 49 19 55	0 9 3 41	1 12 1 53	16 12 11 43	11 34 24 57	9 28 6 14													
W16	12 35 20 37	2 3 19 12	1 50 19 22	3 42 4 16	0 12 21 49	0 24 19 12	0 49 19 55	0 9 3 40	1 12 1 52	16 12 11 43	11 35 24 55	9 27 6 14													
T 17	12 14 14 59	0 43 18 49	1 53 19 22	3 37 4 34	0 12 21 50	0 24 19 13	0 49 19 55	0 9 3 39	1 12 1 52	16 12 11 43	11 36 24 54	9 26 6 14													
F 18	11 53 8 31	0s40 18 24	1 56 19 22	3 32 4 52	0 11 21 50	0 24 19 15	0 49 19 55	0 9 3 38	1 12 1 51	16 11 11 43	11 37 24 52	9 24 6 14													
S 19	11 32 1 43	1 58 17 58	1 59 19 22	3 27 5 10	0 10 21 51	0 23 19 16	0 49 19 55	0 9 3 37	1 12 1 51	16 11 11 43	11 38 24 50	9 23 6 14													
S 20	11 11 4s59	3 7 17 30	2 2 19 21	3 22 5 28	0 9 21 51	0 23 19 17	0 49 19 55	0 9 3 36	1 12 1 50	16 11 11 43	11 40 24 48	9 22 6 14													
M21	10 49 11 15	4 3 17 1	2 4 19 20	3 17 5 46	0 8 21 52	0 23 19 18	0 49 19 56	0 9 3 36	1 12 1 50	16 10 11 43	11 41 24 47	9 20 6 14													
T 22	10 27 16 48	4 44 16 31	2 5 19 19	3 11 6 4	0 8 21 52	0 23 19 19	0 49 19 56	0 9 3 35	1 12 1 49	16 10 11 43	11 42 24 45	9 19 6 14													
W23	10 6 21 25	5 8 16 0	2 7 19 17	3 6 6 22	0 7 21 53	0 23 19 20	0 49 19 56	0 9 3 34	1 12 1 49	16 10 11 43	11 43 24 43	9 18 6 14													
T 24	9 44 24 54	5 17 15 27	2 8 19 14	3 1 6 39	0 6 21 54	0 22 19 21	0 49 19 56	0 9 3 33	1 12 1 48	16 10 11 43	11 44 24 41	9 16 6 14													
F 25	9 21 27 10	5 12 14 52	2 8 19 11	2 55 6 57	0 5 21 54	0 22 19 23	0 49 19 56	0 9 3 32	1 12 1 48	16 9 11 43	11 45 24 39	9 15 6 14													
S 26	8 59 28 6	4 52 14 16	2 8 19 8	2 50 7 14	0 4 21 55	0 22 19 24	0 49 19 57	0 9 3 31	1 12 1 47	16 9 11 43	11 46 24 38	9 13 6 14													
S 27	8 37 27 43	4 20 13 39	2 8 19 4	2 45 7 32	0 4 21 56	0 22 19 25	0 50 19 57	0 9 3 30	1 12 1 46	16 9 11 43	11 47 24 36	9 12 6 14													
M28	8s14 26s 5	3s38 13s 1	2s 7 19s 0	2n39 7n49	0s 3 21n56	0s22 19n26	0n50 19n57	0s 9 3s29	1s12 1s46	16s 8 11s43	11s48 24s34	9s11 6n14													

ASTRODIENST EPHEMERIS for the year 1859
geocentric

MARCH 1859

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 33 5	9♂54'35	27♂58	3♂2	23♂18	20♂49	12♂27	6°R35	29♂40	24♂2	5♂54	29♂22	29♂1	22♂48	19♂9	T 1
W 2	10 37 2	10°54'45	9♂50	4°50	24°20	21°33	12°32	6♂32	29°42	24°5	5°55	29°23	28°58	22°54	19°14	W 2
T 3	10 40 58	11°54'54	21°48	6°40	25°23	22°17	12°37	6°28	29°43	24°7	5°56	29°23	28°55	23°1	19°18	T 3
F 4	10 44 55	12°55'02	3♂55	8°30	26°26	23°1	12°42	6°25	29°44	24°9	5°57	29°R23	28°52	23°8	19°22	F 4
S 5	10 48 51	13°55'07	16°12	10°21	27°29	23°44	12°47	6°21	29°45	24°11	5°58	29°23	28°48	23°14	19°26	S 5
S 6	10 52 48	14°55'11	28°42	12°14	28°33	24°28	12°52	6°18	29°47	24°14	5°58	29°21	28°45	23°21	19°30	S 6
M 7	10 56 44	15°55'12	11♂25	14°7	29°37	25°12	12°58	6°15	29°48	24°16	5°59	29°19	28°42	23°28	19°35	M 7
T 8	11 0 41	16°55'12	24°21	16°1	0♂41	25°55	13°3	6°12	29°50	24°18	6°0	29°16	28°39	23°34	19°39	T 8
W 9	11 4 37	17°55'10	7♂31	17°57	1°45	26°39	13°9	6°9	29°51	24°20	6°1	29°14	28°36	23°41	19°43	W 9
T 10	11 8 34	18°55'05	20°55	19°53	2°49	27°22	13°15	6°6	29°53	24°23	6°2	29°11	28°33	23°48	19°47	T 10
F 11	11 12 30	19°54'58	4♂32	21°50	3°54	28°6	13°21	6°3	29°55	24°25	6°3	29°10	28°29	23°54	19°51	F 11
S 12	11 16 27	20°54'49	18°23	23°48	4°59	28°49	13°27	6°0	29°56	24°27	6°4	29°D 9	28°26	24°1	19°55	S 12
S 13	11 20 24	21°54'38	2♂28	25°46	6°4	29°32	13°34	5°57	29°58	24°30	6°5	29°9	28°23	24°8	19°59	S 13
M14	11 24 20	22°54'25	16°44	27°45	7°10	0♂16	13°41	5°55	29°59	24°32	6°6	29°10	28°20	24°14	20°3	M14
T 15	11 28 17	23°54'09	1♂10	29°44	8°15	0°59	13°47	5°52	0♂2	24°34	6°7	29°12	28°17	24°21	20°7	T 15
W16	11 32 13	24°53'51	15°42	1♂44	9°21	1°42	13°54	5°50	0°3	24°36	6°8	29°13	28°14	24°28	20°11	W16
T 17	11 36 10	25°53'31	0♂16	3°43	10°27	2°25	14°1	5°48	0°5	24°39	6°10	29°R14	28°10	24°34	20°14	T 17
F 18	11 40 6	26°53'08	14°46	5°42	11°33	3°8	14°9	5°46	0°7	24°41	6°11	29°13	28°7	24°41	20°18	F 18
S 19	11 44 3	27°52'44	29°7	7°41	12°39	3°52	14°16	5°44	0°9	24°43	6°12	29°11	28°4	24°48	20°22	S 19
S 20	11 47 59	28°52'17	13♂13	9°38	13°46	4°35	14°23	5°42	0°11	24°45	6°13	29°7	28°1	24°54	20°26	S 20
M21	11 51 56	29°51'49	26°59	11°34	14°52	5°18	14°31	5°40	0°13	24°48	6°14	29°2	27°58	25°1	20°30	M21
T 22	11 55 53	0♂51'18	10♂23	13°29	15°59	6°0	14°39	5°38	0°16	24°50	6°15	28°57	27°54	25°8	20°33	T 22
W23	11 59 49	1°50'46	23°24	15°21	17°6	6°43	14°47	5°36	0°18	24°52	6°16	28°52	27°51	25°14	20°37	W23
T 24	12 3 46	2°50'12	6♂4	17°11	18°13	7°26	14°55	5°35	0°20	24°55	6°17	28°48	27°48	25°21	20°40	T 24
F 25	12 7 42	3°49'36	18°24	18°58	19°20	8°9	15°3	5°33	0°22	24°57	6°19	28°45	27°45	25°28	20°44	F 25
S 26	12 11 39	4°48'59	0♂29	20°41	20°28	8°52	15°11	5°32	0°24	24°59	6°20	28°D44	27°42	25°34	20°48	S 26
S 27	12 15 35	5°48'20	12°24	22°21	21°35	9°35	15°20	5°31	0°27	25°1	6°21	28°44	27°39	25°41	20°51	S 27
M28	12 19 32	6°47'39	24°14	23°56	22°43	10°17	15°28	5°29	0°29	25°4	6°22	28°45	27°35	25°48	20°54	M28
T 29	12 23 28	7°46'56	6♂3	25°27	23°51	11°0	15°37	5°28	0°31	25°6	6°23	28°47	27°32	25°54	20°58	T 29
W30	12 27 25	8°46'11	17°57	26°53	24°59	11°42	15°46	5°27	0°34	25°8	6°25	28°48	27°29	26°1	21°1	W30
T 31	12 31 22	9♂45'24	0♂0	28♂14	26♂7	12♂25	15♂55	5♂27	0♂36	25♂10	6♂26	28°R49	27♂26	26♂8	21♂5	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	7s52	23s17	2s46	12s21	2s5	18s55	2n34	8n6	0s2	21n57	0s21	19n27	0n50	19n57	0s9	3s29
W 2	7 29	19 31	1 46	11 40	2 4	18 50	2 29	8 23	0 1	21 58	0 21	19 28	0 50	19 58	0 9	3 28
T 3	7 6	14 55	0 42	10 57	2 1	18 44	2 23	8 40	0 0	21 59	0 21	19 28	0 50	19 58	0 9	3 27
F 4	6 43	9 42	0n25	10 13	1 59	18 38	2 18	8 57	0n0	22 0	0 21	19 29	0 50	19 58	0 9	3 26
S 5	6 20	4 2	1 32	9 28	1 55	18 31	2 12	9 14	0 1	22 0	0 21	19 30	0 50	19 59	0 9	3 25
S 6	5 57	1n51	2 35	8 42	1 52	18 24	2 7	9 31	0 2	22 1	0 21	19 31	0 50	19 59	0 9	3 24
M 7	5 33	7 46	3 32	7 54	1 47	18 16	2 2	9 48	0 3	22 2	0 20	19 32	0 50	19 59	0 9	3 23
T 8	5 10	13 27	4 19	7 5	1 42	18 8	1 56	10 4	0 3	22 3	0 20	19 33	0 50	20 0	0 8	3 22
W 9	4 47	18 39	4 53	6 15	1 37	17 59	1 51	10 21	0 4	22 4	0 20	19 34	0 50	20 0	0 8	3 21
T 10	4 23	23 0	5 12	5 24	1 31	17 50	1 46	10 37	0 5	22 5	0 20	19 34	0 50	20 0	0 8	3 21
F 11	4 0	26 12	5 14	4 32	1 24	17 40	1 40	10 53	0 5	22 6	0 20	19 35	0 50	20 1	0 8	3 20
S 12	3 36	27 54	4 58	3 39	1 17	17 30	1 35	11 10	0 6	22 7	0 19	19 36	0 50	20 1	0 8	3 19
S 13	3 13	27 50	4 24	2 45	1 10	17 19	1 30	11 26	0 7	22 8	0 19	19 36	0 50	20 1	0 8	3 18
M14	2 49	25 56	3 33	1 50	1 1	17 8	1 25	11 42	0 8	22 9	0 19	19 37	0 50	20 2	0 8	3 17
T 15	2 25	22 20	2 28	0 55	0 53	16 56	1 20	11 57	0 8	22 10	0 19	19 38	0 50	20 2	0 8	3 16
W16	2 2	17 19	1 4s	0n2	0 43	16 44	1 14	12 13	0 9	22 11	0 19	19 38	0 50	20 3	0 8	3 15
T 17	1 38	11 18	0 0	0 58	0 34	16 31	1 9	12 29	0 10	22 12	0 19	19 39	0 50	20 3	0 8	3 14
F 18	1 14	4 42	1 24	1 55	0 23	16 18	1 4	12 44	0 10	22 13	0 18	19 40	0 50	20 3	0 8	3 13
S 19	0 51	2s3	2 37	2 51	0 13	16 5	0 59	12 59	0 11	22 14	0 18	19 40	0 50	20 4	0 8	3 12
S 20	0 27	8 34	3 38	3 48	0 1	15 51	0 54	13 15	0 12	22 15	0 18	19 41	0 50	20 4	0 8	3 12
M21	0 3	14 31	4 25	4 44	0n10	15 36	0 49	13 30	0 13	22 16	0 18	19 41	0 50	20 5	0 8	3 11
T 22	0n20	19 38	4 56	5 40	0 22	15 21	0 44	13 45	0 13	22 17	0 18	19 42	0 50	20 5	0 8	3 10
W23	0 44	23 39	5 11	6 34	0 34	15 6	0 40	13 59	0 14	22 18	0 18	19 42	0 50	20 6	0 8	3 9
T 24	1 8	26 25	5 10	7 28	0 46	14 50	0 35	14 14	0 15	22 19	0 17	19 42	0 50	20 6	0 8	3 8
F 25	1 31	27 50	4 54	8 20	0 58	14 33	0 30	14 29	0 15	22 20	0 17	19 43	0 50	20 7	0 8	3 7
S 26	1 55	27 53	4 26	9 10	1 10	14 17	0 25	14 43	0 16	22 21	0 17	19 43	0 50	20 7	0 8	3 6
S 27	2 18	26 38	3 46	9 59	1 22	13 59	0 21	14 57	0 17	22 22	0 17	19 43	0 50	20 8	0 8	3 5
M28	2 42	24 12	2 57	10 45	1 34	13 42	0 16	15 11	0 17	22 23	0 17	19 44	0 50	20 8	0 8	3 4
T 29	3 5	20 43	2 1	11 30	1 46	13 24	0 12	15 25	0 18	22 24	0 17	19 44	0 50	20 9	0 8	3 4
W30	3 29	16 24	0 59	12 11	1 57	13 5	0 7	15 39	0 18	22 25	0 17	19 44	0 50	20 9	0 8	3 3
T 31	3n52	11s23	0n6	12n50	2n8	12s47	0n3	15n53	0n19	22n27	0s16	19n44	0n50	20n10	0s8	3s2

Julian Day Number = 2400104.5, Delta T = 9.16 sec
Ecliptic obliquity = 23°27'36", Nutation = 0°00'10", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°46'25", Lahiri = 21°53'25"

ASTRODIENST EPHEMERIS for the year 1859
geocentric

APRIL 1859

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 35 18	10°44'36	12°16	29°29	27°15	13°8	16°11	5°R26	0°11	25°12	6°27	28°R48	27°23	26°14	21°8	F 1
S 2	12 39 15	11°43'45	24°46	0°39	28°24	13°50	16°13	5°25	0°41	25°15	6°28	28°45	27°19	26°21	21°11	S 2
S 3	12 43 11	12°42'53	7°34	1°42	29°32	14°32	16°22	5°25	0°44	25°17	6°30	28°40	27°16	26°28	21°14	S 3
M 4	12 47 8	13°41'58	20°39	2°39	0°40	15°15	16°32	5°24	0°47	25°19	6°31	28°33	27°13	26°34	21°17	M 4
T 5	12 51 4	14°41'02	3°39	3°30	1°49	15°57	16°41	5°24	0°49	25°21	6°32	28°26	27°10	26°41	21°21	T 5
W 6	12 55 1	15°40'03	17°34	4°15	2°58	16°40	16°51	5°24	0°52	25°23	6°33	28°18	27°7	26°48	21°24	W 6
T 7	12 58 57	16°39'03	1°20	4°52	4°7	17°22	17°1	5°D24	0°55	25°26	6°35	28°10	27°4	26°54	21°27	T 7
F 8	13 2 54	17°38'00	15°15	5°23	5°16	18°4	17°11	5°24	0°57	25°28	6°36	28°4	27°0	27°1	21°30	F 8
S 9	13 6 51	18°36'55	29°17	5°48	6°25	18°46	17°21	5°24	1°0	25°30	6°37	28°1	26°57	27°8	21°32	S 9
S 10	13 10 47	19°35'47	13°22	6°5	7°34	19°28	17°31	5°25	1°3	25°32	6°39	27°D59	26°54	27°14	21°35	S 10
M 11	13 14 44	20°34'37	27°31	6°17	8°43	20°10	17°41	5°25	1°6	25°34	6°40	27°59	26°51	27°21	21°38	M 11
T 12	13 18 40	21°33'25	11°40	6°R21	9°52	20°52	17°51	5°25	1°9	25°36	6°41	28°0	26°48	27°28	21°41	T 12
W 13	13 22 37	22°32'11	25°49	6°19	11°1	21°34	18°2	5°26	1°12	25°38	6°43	28°R0	26°45	27°34	21°44	W 13
T 14	13 26 33	23°30'54	9°17	6°12	12°11	22°16	18°12	5°27	1°15	25°40	6°44	28°0	26°41	27°41	21°46	T 14
F 15	13 30 30	24°29'35	24°0	5°58	13°20	22°58	18°23	5°28	1°18	25°42	6°45	27°57	26°38	27°48	21°49	F 15
S 16	13 34 26	25°28'14	7°55	5°39	14°30	23°40	18°33	5°28	1°20	25°44	6°47	27°52	26°35	27°54	21°51	S 16
S 17	13 38 23	26°26'51	21°40	5°15	15°39	24°22	18°44	5°30	1°23	25°46	6°48	27°44	26°32	28°1	21°54	S 17
M 18	13 42 20	27°25'26	5°10	4°47	16°49	25°4	18°55	5°31	1°27	25°48	6°49	27°35	26°29	28°8	21°56	M 18
T 19	13 46 16	28°23'59	18°24	4°14	17°59	25°45	19°6	5°32	1°30	25°50	6°51	27°24	26°25	28°14	21°59	T 19
W 20	13 50 13	29°22'30	1°19	3°39	19°9	26°27	19°17	5°33	1°33	25°52	6°52	27°14	26°22	28°21	22°1	W 20
T 21	13 54 9	0°21'00	13°56	3°1	20°19	27°9	19°28	5°35	1°36	25°54	6°53	27°5	26°19	28°28	22°3	T 21
F 22	13 58 6	1°19'28	26°15	2°21	21°29	27°50	19°39	5°36	1°39	25°56	6°55	26°57	26°16	28°34	22°6	F 22
S 23	14 2 2	2°17'54	8°31	1°41	22°39	28°32	19°50	5°38	1°42	25°58	6°56	26°52	26°13	28°41	22°8	S 23
S 24	14 5 59	3°16'18	20°16	1°0	23°49	29°13	20°2	5°40	1°45	26°0	6°57	26°49	26°10	28°48	22°10	S 24
M 25	14 9 55	4°14'41	2°6	0°19	24°59	29°55	20°13	5°42	1°48	26°2	6°59	26°D48	26°6	28°54	22°12	M 25
T 26	14 13 52	5°13'03	29°40	26°9	0°11	36°20	20°25	5°44	1°52	26°4	7°0	26°48	26°3	29°1	22°14	T 26
W 27	14 17 49	6°11'23	25°50	29°2	27°20	1°18	20°36	5°46	1°55	26°6	7°2	26°R49	26°0	29°8	22°16	W 27
T 28	14 21 45	7°9'41	7°55	28°28	28°30	1°59	20°48	5°48	1°58	26°8	7°3	26°48	25°57	29°14	22°18	T 28
F 29	14 25 42	8°7'57	20°16	27°56	29°40	2°40	21°0	5°50	2°1	26°9	7°4	26°46	25°54	29°21	22°20	F 29
S 30	14 29 38	9°6'12	2°56	27°27	0°51	3°11	21°12	5°53	2°11	26°11	7°6	26°41	25°51	29°28	22°21	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4n15	5s51	1n12	13n27	2n18	12s27	0s1	16n6	0n20	22n28	0s16	19n45	0n50	20n10	0s8	F 1
S 2	4 39	0n0	2 16	14 0	2 27	12 8	0 6	16 20	0 20	22 29	0 16	19 45	0 50	20 11	0 8	S 2
S 3	5 2	5 59	3 14	14 30	2 35	11 48	0 10	16 33	0 21	22 30	0 16	19 45	0 50	20 11	0 8	S 3
M 4	5 25	11 49	4 3	14 58	2 43	11 28	0 14	16 46	0 22	22 31	0 16	19 45	0 50	20 12	0 8	M 4
T 5	5 48	17 15	4 40	15 21	2 50	11 7	0 18	16 59	0 22	22 32	0 16	19 45	0 50	20 13	0 8	T 5
W 6	6 10	21 55	5 2	15 42	2 56	10 46	0 22	17 12	0 23	22 33	0 15	19 45	0 50	20 13	0 8	W 6
T 7	6 33	25 27	5 7	15 59	3 1	10 25	0 26	17 24	0 23	22 34	0 15	19 45	0 50	20 14	0 8	T 7
F 8	6 56	27 31	4 54	16 13	3 4	10 3	0 29	17 37	0 24	22 35	0 15	19 45	0 50	20 14	0 8	F 8
S 9	7 18	27 51	4 23	16 24	3 6	9 41	0 33	17 49	0 25	22 36	0 15	19 45	0 50	20 15	0 8	S 9
S 10	7 40	26 23	3 36	16 30	3 7	9 19	0 37	18 1	0 25	22 38	0 15	19 45	0 50	20 15	0 8	S 10
M 11	8 3	23 14	2 36	16 34	3 7	8 56	0 40	18 13	0 26	22 39	0 15	19 45	0 50	20 16	0 8	M 11
T 12	8 25	18 41	1 27	16 34	3 5	8 33	0 44	18 25	0 26	22 40	0 15	19 45	0 50	20 17	0 8	T 12
W 13	8 47	13 6	0 12	16 30	3 2	8 10	0 47	18 36	0 27	22 41	0 15	19 45	0 50	20 17	0 8	W 13
T 14	9 8	6 52	1s4	16 23	2 58	7 47	0 51	18 48	0 28	22 42	0 14	19 44	0 50	20 18	0 8	T 14
F 15	9 30	0 20	2 15	16 13	2 52	7 23	0 54	18 59	0 28	22 43	0 14	19 44	0 50	20 18	0 8	F 15
S 16	9 51	6s9	3 17	16 0	2 44	6 59	0 57	19 10	0 29	22 44	0 14	19 44	0 50	20 19	0 8	S 16
S 17	10 13	12 15	4 6	15 43	2 35	6 35	1 0	19 21	0 29	22 45	0 14	19 44	0 50	20 20	0 8	S 17
M 18	10 34	17 40	4 41	15 24	2 25	6 11	1 3	19 32	0 30	22 46	0 14	19 43	0 50	20 20	0 8	M 18
T 19	10 55	22 7	5 0	15 2	2 13	5 46	1 6	19 42	0 30	22 47	0 14	19 43	0 50	20 21	0 8	T 19
W 20	11 16	25 23	5 3	14 38	2 0	5 21	1 9	19 53	0 31	22 48	0 14	19 43	0 50	20 22	0 8	W 20
T 21	11 36	27 18	4 51	14 12	1 47	4 56	1 12	20 3	0 31	22 49	0 13	19 42	0 50	20 22	0 8	T 21
F 22	11 57	27 50	4 26	13 44	1 32	4 31	1 14	20 13	0 32	22 50	0 13	19 42	0 50	20 23	0 8	F 22
S 23	12 17	27 0	3 48	13 15	1 16	4 6	1 17	20 23	0 32	22 51	0 13	19 42	0 50	20 23	0 8	S 23
S 24	12 37	24 56	3 2	12 46	1 0	3 40	1 19	20 32	0 33	22 52	0 13	19 41	0 50	20 24	0 8	S 24
M 25	12 57	21 47	2 8	12 16	0 43	3 15	1 22	20 42	0 34	22 53	0 13	19 41	0 50	20 25	0 8	M 25
T 26	13 16	17 45	1 8	11 46	0 26	2 49	1 24	20 51	0 34	22 54	0 13	19 40	0 50	20 25	0 8	T 26
W 27	13 36	13 0	0 5	11 17	0 9	2 23	1 26	21 0	0 35	22 55	0 13	19 40	0 50	20 26	0 8	W 27
T 28	13 55	7 42	0n50	10 48	0s8	1 57	1 28	21 9	0 35	22 56	0 13	19 39	0 50	20 27	0 8	T 28
F 29	14 14	2 0	2 1	10 21	0 25	1 30	1 30	21 18	0 36	22 57	0 12	19 39	0 50	20 27	0 8	F 29
S 30	14n33	3n54	2n59	9n55	0s42	1s4	1s32	21n26	0n36	22n58	0s12	19n38	0n50	20n28	0s8	S 30

Julian Day Number = 2400135.5, Delta T = 9.13 sec
Ecliptic obliquity = 23°27'36, Nutation = 0°00'09, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°46'29, Lahiri = 21°53'30

ASTRODIENST EPHEMERIS for the year 1859
geocentric

MAY 1859

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 33 35	10° 4'26"	15° 5'56"	27° R 2	2° 1' 1	4° 11 3	21° 11 23	5° 12 55	2° 11 8	26° 13 13	7° 8 7	26° R34	25° 47	29° 34	22° 23	S 1
M 2	14 37 31	11° 2'38"	29° 19	26° 42	3° 12	4° 44	21° 35	5° 58	2° 11	26° 15	7° 8	26° 24	25° 44	29° 41	22° 25	M 2
T 3	14 41 28	12° 0'48"	13° 3	26° 26	4° 23	5° 25	21° 47	6° 0	2° 15	26° 16	7° 10	26° 13	25° 41	29° 48	22° 26	T 3
W 4	14 45 24	12° 58'57"	27° 4	26° 14	5° 33	6° 6	22° 0	6° 3	2° 18	26° 18	7° 11	26° 1	25° 38	29° 54	22° 28	W 4
T 5	14 49 21	13° 57'04"	11° 17	26° 7	6° 44	6° 48	22° 12	6° 6	2° 21	26° 20	7° 13	25° 50	25° 35	0° 1	22° 29	T 5
F 6	14 53 18	14° 55'09"	25° 37	26° D 5	7° 55	7° 29	22° 24	6° 9	2° 25	26° 22	7° 14	25° 42	25° 31	0° 7	22° 31	F 6
S 7	14 57 14	15° 53'12"	9° 59	26° 7	9° 6	8° 10	22° 36	6° 12	2° 28	26° 23	7° 15	25° 35	25° 28	0° 14	22° 32	S 7
S 8	15 1 11	16° 51'14"	24° 18	26° 15	10° 16	8° 51	22° 48	6° 15	2° 32	26° 25	7° 17	25° 32	25° 25	0° 21	22° 33	S 8
M 9	15 5 7	17° 49'11"	8° 31	26° 26	11° 27	9° 32	23° 1	6° 19	2° 35	26° 26	7° 18	25° 30	25° 22	0° 27	22° 35	M 9
T 10	15 9 4	18° 47'11"	22° 36	26° 43	12° 38	10° 12	23° 13	6° 22	2° 38	26° 28	7° 19	25° 30	25° 19	0° 34	22° 36	T 10
W 11	15 13 0	19° 45'06"	6° 34	27° 4	13° 49	10° 53	23° 26	6° 25	2° 42	26° 29	7° 21	25° 30	25° 16	0° 41	22° 37	W 11
T 12	15 16 57	20° 43'00"	20° 22	27° 29	15° 0	11° 34	23° 38	6° 29	2° 45	26° 31	7° 22	25° 28	25° 12	0° 47	22° 38	T 12
F 13	15 20 53	21° 40'52"	4° 2	27° 58	16° 11	12° 15	23° 51	6° 33	2° 49	26° 32	7° 23	25° 25	25° 9	0° 54	22° 39	F 13
S 14	15 24 50	22° 38'42"	17° 33	28° 32	17° 22	12° 56	24° 4	6° 36	2° 52	26° 34	7° 25	25° 18	25° 6	1° 1	22° 40	S 14
S 15	15 28 47	23° 36'31"	0° 54	29° 9	18° 33	13° 36	24° 16	6° 40	2° 56	26° 35	7° 26	25° 8	25° 3	1° 7	22° 41	S 15
M 16	15 32 43	24° 34'18"	14° 2	29° 50	19° 44	14° 17	24° 29	6° 44	2° 59	26° 37	7° 27	24° 57	25° 0	1° 14	22° 41	M 16
T 17	15 36 40	25° 32'04"	26° 57	0° 35	20° 56	14° 57	24° 42	6° 48	3° 3	26° 38	7° 29	24° 44	24° 57	1° 21	22° 42	T 17
W 18	15 40 36	26° 29'48"	9° 39	1° 24	22° 7	15° 38	24° 55	6° 52	3° 6	26° 40	7° 30	24° 31	24° 53	1° 27	22° 43	W 18
T 19	15 44 33	27° 27'31"	22° 6	2° 15	23° 18	16° 19	25° 8	6° 56	3° 10	26° 41	7° 31	24° 19	24° 50	1° 34	22° 43	T 19
F 20	15 48 29	28° 25'13"	4° 19	3° 11	24° 29	16° 59	25° 21	7° 1	3° 13	26° 42	7° 33	24° 9	24° 47	1° 41	22° 44	F 20
S 21	15 52 26	29° 22'54"	16° 21	4° 9	25° 41	17° 40	25° 33	7° 5	3° 17	26° 43	7° 34	24° 2	24° 44	1° 47	22° 44	S 21
S 22	15 56 22	0° 11 20'33"	28° 14	5° 11	26° 52	18° 20	25° 47	7° 9	3° 20	26° 45	7° 35	23° 58	24° 41	1° 54	22° 45	S 22
M 23	16 0 19	1° 18'12"	10° 3	6° 16	28° 3	19° 0	26° 0	7° 14	3° 24	26° 46	7° 36	23° 55	24° 37	2° 1	22° 45	M 23
T 24	16 4 16	2° 15'49"	21° 51	7° 24	29° 15	19° 41	26° 13	7° 18	3° 27	26° 47	7° 38	23° D55	24° 34	2° 7	22° 45	T 24
W 25	16 8 12	3° 13'26"	3° 46	8° 34	0° 26	20° 21	26° 26	7° 23	3° 31	26° 48	7° 39	23° R55	24° 31	2° 14	22° 46	W 25
T 26	16 12 9	4° 11'01"	15° 51	9° 48	1° 38	21° 1	26° 39	7° 28	3° 34	26° 49	7° 40	23° 55	24° 28	2° 21	22° 46	T 26
F 27	16 16 5	5° 8'36"	28° 13	11° 4	2° 49	21° 42	26° 52	7° 33	3° 38	26° 51	7° 41	23° 53	24° 25	2° 27	22° 46	F 27
S 28	16 20 2	6° 6'09"	10° 55	12° 23	4° 1	22° 22	27° 5	7° 37	3° 41	26° 52	7° 43	23° 49	24° 22	2° 34	22° R46	S 28
S 29	16 23 58	7° 3'42"	24° 2	13° 45	5° 12	23° 2	27° 19	7° 42	3° 45	26° 53	7° 44	23° 42	24° 18	2° 41	22° 46	S 29
M 30	16 27 55	8° 1'14"	7° 35	15° 10	6° 24	23° 42	27° 32	7° 48	3° 48	26° 54	7° 45	23° 33	24° 15	2° 47	22° 46	M 30
T 31	16 31 51	8° 11 58'45"	21° 33	16° 37	7° 36	24° 11 22	27° 11 45	7° 53	3° 52	26° 55	7° 46	23° 23	24° 12	2° 54	22° 45	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	14n51	9n48	3n50	9n32	0s58	0s38	1s34	21n34	0n37	22n59	0s12	19n37	0n50	20n29	0s 8	2s38	1s13	1s14	15s58	12s40	12s56	22s29	7s54	6n30					
M 2	15 9	15 26	4 29	9 10	1 13	0 11	1 36	21 43	0 37	23 0	0 12	19 37	0 50	20 29	0 8	2 37	1 13	1 13	15 58	12 44	12 57	22 27	7 53	6 31					
T 3	15 27	20 25	4 53	8 50	1 28	0n15	1 37	21 50	0 38	23 0	0 12	19 36	0 50	20 30	0 8	2 36	1 13	1 13	15 58	12 47	12 58	22 25	7 53	6 31					
W 4	15 45	24 24	5 1	8 33	1 42	0 42	1 39	21 58	0 38	23 1	0 12	19 35	0 50	20 31	0 8	2 36	1 14	1 13	15 58	12 51	12 59	22 23	7 52	6 31					
T 5	16 2	26 57	4 50	8 18	1 55	1 8	1 40	22 6	0 39	23 2	0 12	19 35	0 50	20 31	0 8	2 35	1 14	1 12	15 58	12 55	13 0	22 20	7 51	6 32					
F 6	16 20	27 45	4 21	8 6	2 8	1 35	1 42	22 13	0 39	23 3	0 12	19 34	0 50	20 32	0 8	2 34	1 14	1 12	15 58	12 58	13 1	22 18	7 50	6 32					
S 7	16 36	26 40	3 36	7 56	2 19	2 2	1 43	22 20	0 39	23 4	0 11	19 33	0 50	20 33	0 8	2 34	1 14	1 11	15 58	13 0	13 2	22 16	7 49	6 32					
S 8	16 53	23 51	2 37	7 49	2 29	2 28	1 44	22 27	0 40	23 5	0 11	19 32	0 50	20 34	0 8	2 33	1 14	1 11	15 58	13 1	13 4	22 14	7 49	6 33					
M 9	17 9	19 35	1 29	7 44	2 39	2 55	1 45	22 34	0 40	23 5	0 11	19 32	0 50	20 34	0 8	2 33	1 14	1 11	15 59	13 2	13 5	22 11	7 48	6 33					
T 10	17 26	14 14	0 15	7 42	2 48	3 22	1 46	22 40	0 41	23 6	0 11	19 31	0 50	20 35	0 8	2 32	1 14	1 10	15 59	13 2	13 6	22 9	7 47	6 34					
W 11	17 41	8 13	0s58	7 42	2 55	3 48	1 47	22 47	0 41	23 7	0 11	19 30	0 50	20 36	0 8	2 31	1 14	1 10	15 59	13 2	13 7	22 7	7 46	6 34					
T 12	17 57	1 52	2 7	7 45	3 2	4 15	1 48	22 53	0 42	23 8	0 11	19 29	0 50	20 36	0 8	2 31	1 14	1 10	15 59	13 2	13 8	22 5	7 46	6 34					
F 13	18 12	4s29	3 9	7 50	3 8	4 42	1 49	22 59	0 42	23 8	0 11	19 28	0 50	20 37	0 8	2 30	1 14	1 9	15 59	13 4	13 9	22 2	7 45	6 35					
S 14	18 27	10 34	3 58	7 57	3 13	5 8	1 50	23 4	0 43	23 9	0 11	19 27	0 50	20 38	0 8	2 30	1 14	1 9	15 59	13 6	13 10	22 0	7 44	6 35					
S 15	18 41	16 4	4 34	8 7	3 17	5 35	1 50	23 10	0 43	23 10	0 11	19 26	0 50	20 38	0 8	2 29	1 14	1 9	15 59	13 9	13 11	21 58	7 44	6 36					
M 16	18 56	20 45	4 55	8 18	3 20	6 1	1 51	23 15	0 44	23 10	0 10	19 25	0 50	20 39	0 8	2 29	1 14	1 8	15 59	13 13	13 12	21 56	7 43	6 36					
T 17	19 10	24 21	5 0	8 31	3 23	6 28	1 51	23 20	0 44	23 11	0 10	19 24	0 50	20 40	0 8	2 28	1 14	1 8	15 59	13 17	13 13	21 53	7 42	6 36					
W 18	19 23	26 41	4 50	8 46	3 24	6 54	1 51	23 25	0 44	23 12	0 10	19 23	0 50	20 40	0 8	2 28	1 14	1 8	15 59	13 22	13 14	21 51	7 42	6 37					
T 19	19 37	27 39	4 26	9 3	3 25	7 20	1 52	23 30	0 45	23 12	0 10	19 22	0 50	20 41	0 8	2 27	1 14	1 7	15 59	13 26	13 15	21 49	7 41	6 37					
F 20	19 49	27 14	3 50	9 22	3 25	7 46	1 52	23 34	0 45	23 13	0 10	19 21	0 50	20 42	0 8	2 27	1 14	1 7	15 59	13 29	13 16	21 47	7 41	6 38					
S 21	20 2	25 31	3 5	9 42	3 24	8 12	1 52	23 39	0 46	23 13	0 10	19 20	0 50	20 42	0 8	2 26	1 14	1 7	15 59	13 31	13 17	21 44	7 40	6 38					
S 22	20 14	22 41	2 12	10 4	3 23	8 38	1 52	23 43	0 46	23 14	0 10	19 19	0 50	20 43	0 8	2 26	1 14	1 6	15 59	13 33	13 18	21 42	7 40	6 38					
M 23	20 26	18 55	1 13	10 28	3 21	9 3	1 52	23 47	0 46	23 14	0 10	19 18	0 51	20 44	0 8	2 25	1 14	1 6	16 0	13 33	13 20	21 40	7 39	6 39					
T 24	20 38	14 24	0 11	10 52	3 18	9 29	1 51	23 50	0 47	23 15	0 10	19 16	0 51	20 44	0 8	2 25	1 14	1 6	16 0	13 34	13 21	21 37	7 39	6 39					
W 25	20 49	9 20	0n52	11 18	3 14	9 54	1 51	23 54	0 47	23 15	0 9	19 15	0 51	20 45	0 8	2 25	1 14	1 5	16 0	13 34	13 22	21 35	7 38	6 40					
T 26	21 0	3 50	1 54	11 45	3 10	10 19	1 51	23 57	0 48	23 16	0 9	19 14	0 51	20 46	0 7	2 24	1 14	1 5	16 0	13 34	13 23	21 33	7 38	6 40					
F 27	21 11	1n54	2 51	12 13	3 6	10 44	1 50	24 0	0 48	23 16	0 9	19 13	0 51	20 46	0 7	2 24	1 14	1 5	16 0	13 34	13 24	21 30	7 37	6 40					
S 28	21 21	7 43	3 42	12 42	3 0	11 9	1 50	24 3	0 48	23 17	0 9	19 12	0 51	20 47	0 7	2 23	1 15	1 5	16 0	13 36	13 25	21 28	7 37	6 41					
S 29	21 30	13 24	4 23	13 12	2 54	11 33	1 49	24 5	0 49	23 17	0 9	19 10	0 51	20 48	0 7	2 23	1 15	1 4	16 0	13 38	13 26	21 26	7 37	6 41					
M 30	21 40	18 37	4 50	13 43	2 48	11 57	1 49	24 8	0 49	23 17	0 9	19 9	0 51	20 48	0 7	2 23	1 15	1 4	16 0	13 41	13 27	21 23	7 36	6 42					
T 31	21n49	23n 1	5n 2	14n15	2s41	12n21	1s48	24n10	0n50	23n18	0s 9	19n 8	0n51	20n49	0s 7	2s22	1s15	1s 4	16s 1	13s44	13s28	21s21	7s36	6n42					

ASTRODIENST EPHEMERIS for the year 1859

geocentric

JUNE 1859

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 35 48	9II56'16	5II53	188 6	8847	25II 2	27II59	7858	3II55	26856	7847	23°R12	2488 9	388 1	22°R45	W 1
T 2	16 39 45	10°53'45	20°29	19°39	9°59	25°42	28°12	8° 3	3°59	26°57	7°49	2388 1	24° 6	3° 7	228845	T 2
F 3	16 43 41	11°51'14	5814	21°14	11°11	26°23	28°25	8° 8	4° 2	26°58	7°50	22°53	24° 3	3°14	22°45	F 3
S 4	16 47 38	12°48'41	19°59	22°51	12°23	27° 3	28°39	8°14	4° 6	26°58	7°51	22°47	23°59	3°21	22°44	S 4
S 5	16 51 34	13°46'07	4839	24°31	13°34	27°42	28°52	8°19	4° 9	26°59	7°52	22°44	23°56	3°27	22°44	S 5
M 6	16 55 31	14°43'32	19° 6	26°14	14°46	28°22	29° 6	8°25	4°13	27° 0	7°53	22°D43	23°53	3°34	22°43	M 6
T 7	16 59 27	15°40'56	3820	27°59	15°58	29° 2	29°19	8°30	4°16	27° 1	7°54	22°43	23°50	3°41	22°42	T 7
W 8	17 3 24	16°38'18	17°17	29°47	17°10	29°42	29°33	8°36	4°20	27° 2	7°56	22°R43	23°47	3°47	22°42	W 8
T 9	17 7 20	17°35'40	0859	1II37	18°22	0822	29°46	8°42	4°23	27° 2	7°57	22°42	23°43	3°54	22°41	T 9
F 10	17 11 17	18°33'00	14°26	3°30	19°34	1° 2	29°59	8°48	4°27	27° 3	7°58	22°40	23°40	4° 0	22°40	F 10
S 11	17 15 14	19°30'19	27°39	5°25	20°46	1°42	0813	8°54	4°30	27° 4	7°59	22°34	23°37	4° 7	22°39	S 11
S 12	17 19 10	20°27'38	10839	7°22	21°58	2°21	0°27	8°59	4°34	27° 4	8° 0	22°27	23°34	4°14	22°38	S 12
M13	17 23 7	21°24'56	23°27	9°21	23°10	3° 1	0°41	9° 5	4°37	27° 5	8° 1	22°18	23°31	4°20	22°37	M13
T 14	17 27 3	22°22'13	68 3	11°23	24°22	3°41	0°54	9°11	4°40	27° 5	8° 2	22° 7	23°28	4°27	22°36	T 14
W15	17 31 0	23°19'29	18°28	13°27	25°34	4°20	1° 8	9°18	4°44	27° 6	8° 3	21°57	23°24	4°34	22°35	W15
T 16	17 34 56	24°16'45	0842	15°32	26°46	5° 0	1°21	9°24	4°47	27° 6	8° 4	21°47	23°21	4°40	22°34	T 16
F 17	17 38 53	25°14'00	12°46	17°39	27°58	5°39	1°35	9°30	4°50	27° 7	8° 5	21°39	23°18	4°47	22°33	F 17
S 18	17 42 50	26°11'15	24°42	19°48	29°10	6°19	1°49	9°36	4°54	27° 7	8° 6	21°33	23°15	4°54	22°32	S 18
S 19	17 46 46	27° 8'29	6831	21°57	0II22	6°59	2° 2	9°43	4°57	27° 8	8° 7	21°30	23°12	5° 0	22°30	S 19
M20	17 50 43	28° 5'43	18°19	24° 8	1°34	7°38	2°16	9°49	5° 0	27° 8	8° 8	21°D28	23° 9	5° 7	22°29	M20
T 21	17 54 39	29° 2'57	08 7	26°19	2°46	8°17	2°30	9°55	5° 4	27° 8	8° 9	21°29	23° 5	5°14	22°28	T 21
W22	17 58 36	08 0'10	12° 1	28°30	3°59	8°57	2°43	10° 2	5° 7	27° 9	8°10	21°30	23° 2	5°20	22°26	W22
T 23	18 2 32	0°57'24	24° 6	0842	5°11	9°36	2°57	10° 8	5°10	27° 9	8°11	21°31	22°59	5°27	22°25	T 23
F 24	18 6 29	1°54'37	6826	2°53	6°23	10°16	3°11	10°15	5°14	27° 9	8°12	21°R31	22°56	5°34	22°23	F 24
S 25	18 10 25	2°51'51	19° 7	5° 4	7°36	10°55	3°24	10°22	5°17	27° 9	8°12	21°30	22°53	5°40	22°21	S 25
S 26	18 14 22	3°49'04	2813	7°14	8°48	11°34	3°38	10°28	5°20	27°10	8°13	21°26	22°49	5°47	22°20	S 26
M27	18 18 19	4°46'18	15°46	9°23	10° 0	12°14	3°52	10°35	5°23	27°10	8°14	21°21	22°46	5°54	22°18	M27
T 28	18 22 15	5°43'31	29°48	11°31	11°13	12°53	4° 5	10°42	5°26	27°10	8°15	21°15	22°43	6° 0	22°16	T 28
W29	18 26 12	6°40'45	14II15	13°37	12°25	13°32	4°19	10°48	5°29	27°10	8°16	21° 8	22°40	6° 7	22°14	W29
T 30	18 30 8	7837'59	29II 3	15842	13II38	14812	4833	10855	5II33	27810	8817	2188 2	22837	68814	228812	T 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	21n58	26n 8	4n54	14n47	2s34	12n45	1s47	24n12	0n50	23n18	0s 9	19n 6	0n51	20n50	0s 7	2s22	1s15	1s 4	16s 1	13s48	13s29	21s19	7s36	6n42	
T 2	22 6	27 35	4 28	15 19	2 26	13 8	1 46	24 14	0 50	23 18	0 9	19 5	0 51	20 50	0 7	2 22	1 15	1 4	16 1	13 51	13 30	21 16	7 36	6 43	
F 3	22 14	27 5	3 44	15 53	2 17	13 32	1 45	24 15	0 51	23 19	0 8	19 4	0 51	20 51	0 7	2 21	1 15	1 3	16 1	13 54	13 31	21 14	7 35	6 43	
S 4	22 21	24 41	2 45	16 26	2 8	13 54	1 44	24 17	0 51	23 19	0 8	19 2	0 51	20 52	0 7	2 21	1 15	1 3	16 1	13 56	13 32	21 12	7 35	6 43	
S 5	22 28	20 39	1 35	17 0	1 59	14 17	1 43	24 18	0 51	23 19	0 8	19 1	0 51	20 52	0 7	2 21	1 15	1 3	16 1	13 57	13 33	21 9	7 35	6 44	
M 6	22 35	15 25	0 19	17 33	1 49	14 39	1 42	24 19	0 52	23 19	0 8	18 59	0 51	20 53	0 7	2 20	1 15	1 3	16 2	13 57	13 34	21 7	7 35	6 44	
T 7	22 41	9 25	0s56	18 7	1 39	15 1	1 41	24 19	0 52	23 19	0 8	18 58	0 51	20 54	0 7	2 20	1 15	1 3	16 2	13 57	13 35	21 4	7 35	6 45	
W 8	22 47	3 5	2 7	18 40	1 29	15 23	1 40	24 20	0 52	23 20	0 8	18 56	0 51	20 54	0 7	2 20	1 15	1 2	16 2	13 57	13 36	21 2	7 34	6 45	
T 9	22 53	3s17	3 9	19 13	1 18	15 44	1 38	24 20	0 53	23 20	0 8	18 55	0 51	20 55	0 7	2 20	1 15	1 2	16 2	13 58	13 37	21 0	7 34	6 45	
F 10	22 58	9 22	3 59	19 46	1 8	16 5	1 37	24 20	0 53	23 20	0 8	18 53	0 51	20 56	0 7	2 19	1 15	1 2	16 2	13 58	13 38	20 57	7 34	6 46	
S 11	23 3	14 56	4 36	20 18	0 57	16 26	1 35	24 20	0 53	23 20	0 8	18 52	0 51	20 56	0 7	2 19	1 15	1 2	16 3	14 0	13 40	20 55	7 34	6 46	
S 12	23 7	19 44	4 58	20 49	0 46	16 46	1 34	24 20	0 54	23 20	0 8	18 50	0 51	20 57	0 7	2 19	1 15	1 2	16 3	14 3	13 41	20 53	7 34	6 46	
M13	23 11	23 33	5 4	21 18	0 34	17 5	1 32	24 20	0 54	23 20	0 7	18 49	0 51	20 58	0 7	2 19	1 15	1 2	16 3	14 6	13 42	20 50	7 34	6 47	
T 14	23 14	26 11	4 55	21 47	0 23	17 25	1 31	24 19	0 54	23 20	0 7	18 47	0 51	20 58	0 7	2 19	1 15	1 2	16 3	14 9	13 43	20 48	7 34	6 47	
W15	23 17	27 29	4 32	22 14	0 12	17 44	1 29	24 18	0 55	23 20	0 7	18 46	0 51	20 59	0 7	2 18	1 15	1 2	16 3	14 12	13 44	20 45	7 34	6 47	
T 16	23 20	27 25	3 57	22 39	0 1	18 2	1 27	24 17	0 55	23 20	0 7	18 44	0 51	20 59	0 7	2 18	1 15	1 1	16 4	14 15	13 45	20 43	7 34	6 48	
F 17	23 22	26 2	3 12	23 3	0n10	18 20	1 25	24 16	0 55	23 20	0 7	18 42	0 51	21 0	0 7	2 18	1 16	1 1	16 4	14 18	13 46	20 40	7 34	6 48	
S 18	23 24	23 29	2 19	23 24	0 20	18 38	1 23	24 14	0 56	23 20	0 7	18 41	0 51	21 1	0 7	2 18	1 16	1 1	16 4	14 20	13 47	20 38	7 34	6 49	
S 19	23 26	19 56	1 20	23 44	0 31	18 55	1 22	24 12	0 56	23 20	0 7	18 39	0 51	21 1	0 7	2 18	1 16	1 1	16 4	14 21	13 48	20 36	7 34	6 49	
M20	23 27	15 37	0 17	24 0	0 41	19 12	1 20	24 11	0 56	23 20	0 7	18 37	0 51	21 2	0 7	2 18	1 16	1 1	16 4	14 21	13 49	20 33	7 34	6 49	
T 21	23 27	10 43	0n46	24 14	0 50	19 28	1 18	24 9	0 57	23 20	0 7	18 36	0 51	21 2	0 7	2 18	1 16	1 1	16 5	14 21	13 50	20 31	7 35	6 50	
W22	23 28	5 23	1 49	24 26	0 59	19 43	1 16	24 6	0 57	23 19	0 7	18 34	0 51	21 3	0 7	2 18	1 16	1 1	16 5	14 21	13 51	20 28	7 35	6 50	
T 23	23 27	0n12	2 47	24 35	1 7	19 59	1 13	24 4	0 57	23 19	0 6	18 32	0 51	21 4	0 7	2 18	1 16	1 1	16 5	14 21	13 52	20 26	7 35	6 50	
F 24	23 27	5 54	3 39	24 41	1 15	20 13	1 11	24 1	0 58	23 19	0 6	18 30	0 51	21 4	0 7	2 18	1 16	1 1	16 5	14 21	13 53	20 23	7 35	6 50	
S 25	23 26	11 31	4 21	24 44	1 22	20 27	1 9	23 58	0 58	23 19	0 6	18 29	0 51	21 5	0 7	2 18	1 16	1 1	16 6	14 21	13 54	20 21	7 35	6 51	
S 26	23 24	16 49	4 52	24 44	1 28	20 41	1 7	23 55	0 58	23 18	0 6	18 27	0 51	21 5	0 7	2 18	1 16	1 1	16 6	14 22	13 55	20 18	7 36	6 51	
M27	23 22	21 28	5 7	24 41	1 34	20 54	1 5	23 52	0 58	23 18	0 6	18 25	0 51	21 6	0 7	2 18	1 16	1 1	16 6	14 24	13 56	20 16	7 36	6 51	
T 28	23 20	25 5	5 5	24 36	1 39	21 7	1 2	23 48	0 59	23 18	0 6	18 23	0 51	21 7	0 7	2 18	1 16	1 1	16 6	14 26	13 57	20 13	7 36	6 52	
W29	23 17	27 14	4 44	24 28	1 43	21 19	1 0	23 45	0 59	23 17	0 6	18 21	0 51	21 7	0 7	2 18	1 16	1 1	16 7	14 28	13 58	20 11	7 36	6 52	
T 30	23n14	27n31	4n 4	24n18	1n46	21n30	0s58	23n41	0n59	23n17	0s 6	18n20	0n51	21n 8	0s 7	2s18	1s16	1s 1	16s 7	14s30	13s59	20s 8	7s37	6ns52	

ASTRODIENST EPHEMERIS for the year 1859

geocentric

JULY 1859

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	18 34 5	8 ⁵³ 51'12	14 ⁵⁶ 3	17 ⁵⁴ 46	14 ¹¹ 50	14 ⁵¹ 51	4 ⁵⁶ 46	11 ¹² 2	5 ¹¹ 36	27 ¹⁰ R10	8 ¹⁷ 17	20 ¹⁰ R57	22 ³⁴ 34	6 ²⁰ 20	22 ¹⁰ R10	F 1
S 2	18 38 1	9 ³² 26	29 ⁸ 8	19 ⁴⁸ 19	16 ³ 3	15 ³⁰ 15	5 ⁰ 0	11 ⁹ 11	5 ³⁹ 5	27 ¹⁰ 10	8 ¹⁸ 8	20 ⁵³ 20	22 ³⁰ 22	6 ²⁷ 6	22 ⁸ 22	S 2
S 3	18 41 58	10 ²⁹ 39	14 ¹² 7	21 ⁴⁸ 21	17 ¹⁶ 17	16 ⁹ 16	5 ¹⁴ 5	11 ¹⁶ 11	5 ⁴² 5	27 ¹⁰ 27	8 ¹⁹ 8	20 ⁵¹ 20	22 ²⁷ 22	6 ³³ 6	22 ⁶ 22	S 3
M 4	18 45 54	11 ²⁶ 52	28 ⁵³ 28	23 ⁴⁶ 23	18 ²⁸ 18	16 ⁴⁸ 16	5 ²⁷ 5	11 ²³ 11	5 ⁴⁵ 5	27 ¹⁰ 27	8 ²⁰ 8	20 ⁵¹ 20	22 ²⁴ 22	6 ⁴⁰ 6	22 ⁴ 22	M 4
T 5	18 49 51	12 ²⁴ 05	13 ¹⁷ 21	25 ⁴³ 25	19 ⁴¹ 19	17 ²⁷ 17	5 ⁴¹ 5	11 ³⁰ 11	5 ⁴⁸ 5	27 ¹⁰ 27	8 ²⁰ 8	20 ⁵³ 20	22 ²¹ 22	6 ⁴⁷ 6	22 ² 22	T 5
W 6	18 53 48	13 ²¹ 18	27 ²⁸ 27	27 ³⁷ 27	20 ⁵³ 20	18 ⁶ 18	5 ⁵⁴ 5	11 ³⁷ 11	5 ⁵¹ 5	27 ⁹ 27	8 ²¹ 8	20 ⁵⁴ 20	22 ¹⁸ 22	6 ⁵³ 6	22 ⁰ 22	W 6
T 7	18 57 44	14 ¹⁸ 30	11 ¹³ 11	29 ³⁰ 29	22 ⁶ 22	18 ⁴⁵ 18	6 ⁸ 6	11 ⁴⁴ 11	5 ⁵⁴ 5	27 ⁹ 27	8 ²² 8	20 ⁵⁵ 20	22 ¹⁵ 22	7 ⁰ 7	21 ⁵⁷ 21	T 7
F 8	19 1 141	15 ¹⁵ 42	24 ³⁷ 24	1 ²⁰ 20	23 ¹⁹ 23	19 ²⁵ 19	6 ²² 6	11 ⁵² 11	5 ⁵⁷ 5	27 ⁹ 27	8 ²² 8	20 ⁵⁴ 20	22 ¹¹ 22	7 ⁷ 7	21 ⁵⁵ 21	F 8
S 9	19 5 37	16 ¹² 54	7 ¹⁴ 42	3 ⁹ 3	24 ³² 24	20 ⁴ 20	6 ³⁵ 6	11 ⁵⁹ 11	5 ⁵⁹ 5	27 ⁹ 27	8 ²³ 8	20 ⁵² 20	22 ⁸ 22	7 ¹³ 7	21 ⁵³ 21	S 9
S 10	19 9 34	17 ¹⁰ 06	20 ³⁰ 20	4 ⁵⁶ 4	25 ⁴⁴ 25	20 ⁴³ 20	6 ⁴⁹ 6	12 ⁶ 12	6 ² 6	27 ⁸ 27	8 ²³ 8	20 ⁴⁹ 20	22 ⁵ 22	7 ²⁰ 7	21 ⁵⁰ 21	S 10
M 11	19 13 30	18 ⁷ 18	3 ¹⁷ 3	6 ⁴⁰ 6	26 ⁵⁷ 26	21 ²¹ 21	7 ² 7	12 ¹³ 12	6 ⁵ 6	27 ⁸ 27	8 ²⁴ 8	20 ⁴⁵ 20	22 ² 22	7 ²⁷ 7	21 ⁴⁸ 21	M 11
T 12	19 17 27	19 ⁴ 31	15 ²⁴ 15	8 ²³ 8	28 ¹⁰ 28	22 ⁰ 22	7 ¹⁶ 7	12 ²⁰ 12	6 ⁸ 6	27 ⁸ 27	8 ²⁵ 8	20 ³⁹ 20	21 ⁵⁹ 21	7 ³³ 7	21 ⁴⁵ 21	T 12
W 13	19 21 23	20 ¹ 43	27 ³⁴ 27	10 ⁴ 10	29 ²³ 29	22 ³⁹ 22	7 ²⁹ 7	12 ²⁸ 12	6 ¹¹ 6	27 ⁷ 27	8 ²⁵ 8	20 ³⁴ 20	21 ⁵⁵ 21	7 ⁴⁰ 7	21 ⁴³ 21	W 13
T 14	19 25 20	20 ⁵⁸ 55	9 ³⁶ 9	11 ⁴³ 11	0 ³⁶ 36	23 ¹⁸ 23	7 ⁴³ 7	12 ³⁵ 12	6 ¹³ 6	27 ⁷ 27	8 ²⁶ 8	20 ²⁹ 20	21 ⁵² 21	7 ⁴⁷ 7	21 ⁴⁰ 21	T 14
F 15	19 29 17	21 ⁵⁶ 08	21 ³² 21	1 ⁴⁹ 1	23 ⁵⁷ 23	23 ⁵⁷ 23	7 ⁵⁶ 7	12 ⁴² 12	6 ¹⁶ 6	27 ⁷ 27	8 ²⁶ 8	20 ²⁶ 20	21 ⁴⁹ 21	7 ⁵³ 7	21 ³⁸ 21	F 15
S 16	19 33 13	22 ⁵³ 22	3 ²² 3	14 ⁵⁵ 14	3 ¹ 3	24 ³⁶ 24	8 ⁹ 8	12 ⁵⁰ 12	6 ¹⁹ 6	27 ⁶ 27	8 ²⁷ 8	20 ²³ 20	21 ⁴⁶ 21	8 ⁰ 8	21 ³⁵ 21	S 16
S 17	19 37 10	23 ⁵⁰ 35	15 ¹⁰ 15	16 ²⁷ 16	4 ¹⁴ 4	25 ¹⁵ 25	8 ²³ 8	12 ⁵⁷ 12	6 ²¹ 6	27 ⁶ 27	8 ²⁷ 8	20 ²² 20	21 ⁴³ 21	8 ⁷ 8	21 ³³ 21	S 17
M 18	19 41 6	24 ⁴⁷ 49	26 ⁵⁸ 26	17 ⁵⁸ 17	5 ²⁷ 5	25 ⁵⁴ 25	8 ³⁶ 8	13 ⁵ 13	6 ²⁴ 6	27 ⁵ 27	8 ²⁸ 8	20 ²² 20	21 ⁴⁰ 21	8 ¹³ 8	21 ³⁰ 21	M 18
T 19	19 45 3	25 ⁴⁵ 04	8 ¹⁴ 8	19 ²⁷ 19	6 ⁴⁰ 6	26 ³² 26	8 ⁴⁹ 8	13 ¹² 13	6 ²⁷ 6	27 ⁴ 27	8 ²⁸ 8	20 ²³ 20	21 ³⁶ 21	8 ²⁰ 8	21 ²⁷ 21	T 19
W 20	19 48 59	26 ⁴² 19	20 ⁴⁵ 20	20 ⁵⁴ 20	7 ⁵⁴ 7	27 ¹¹ 27	9 ³ 9	13 ²⁰ 13	6 ²⁹ 6	27 ⁴ 27	8 ²⁹ 8	20 ²⁴ 20	21 ³³ 21	8 ²⁷ 8	21 ²⁴ 21	W 20
T 21	19 52 56	27 ³⁹ 35	2 ¹⁷ 2	22 ¹⁹ 22	9 ⁷ 9	27 ⁵⁰ 27	9 ¹⁶ 9	13 ²⁷ 13	6 ³² 6	27 ³ 27	8 ²⁹ 8	20 ²⁶ 20	21 ³⁰ 21	8 ³³ 8	21 ²² 21	T 21
F 22	19 56 52	28 ³⁶ 52	15 ¹² 15	23 ⁴² 23	10 ²⁰ 10	28 ²⁹ 28	9 ²⁹ 9	13 ³⁵ 13	6 ³⁴ 6	27 ³ 27	8 ²⁹ 8	20 ²⁷ 20	21 ²⁷ 21	8 ⁴⁰ 8	21 ¹⁹ 21	F 22
S 23	20 0 49	29 ³⁴ 10	27 ⁵² 27	25 ³ 25	11 ³³ 11	29 ⁷ 29	9 ⁴³ 9	13 ⁴² 13	6 ³⁷ 6	27 ² 27	8 ³⁰ 8	20 ²⁸ 20	21 ²⁴ 21	8 ⁴⁶ 8	21 ¹⁶ 21	S 23
S 24	20 4 46	0 ¹³ 29	10 ¹⁸ 10	26 ²¹ 26	12 ⁴⁶ 12	29 ⁴⁶ 29	9 ⁵⁶ 9	13 ⁵⁰ 13	6 ³⁹ 6	27 ¹ 27	8 ³⁰ 8	20 ²⁷ 20	21 ²¹ 21	8 ⁵³ 8	21 ¹³ 21	S 24
M 25	20 8 42	1 ²⁸ 49	24 ²² 24	27 ³⁸ 27	13 ⁵⁹ 13	0 ¹² 5	10 ⁹ 10	13 ⁵⁷ 13	6 ⁴¹ 6	27 ⁰ 27	8 ³⁰ 8	20 ²⁶ 20	21 ¹⁷ 21	9 ⁰ 9	21 ¹⁰ 21	M 25
T 26	20 12 39	2 ²⁶ 09	8 ¹¹ 17	28 ⁵² 28	15 ¹³ 15	1 ³ 1	10 ²² 10	14 ⁵ 14	6 ⁴⁴ 6	27 ⁰ 27	8 ³¹ 8	20 ²⁵ 20	21 ¹⁴ 21	9 ⁶ 9	21 ⁷ 21	T 26
W 27	20 16 35	3 ²³ 31	22 ³⁸ 22	0 ¹⁷ 4	16 ²⁶ 16	1 ⁴² 1	10 ³⁵ 10	14 ¹² 14	6 ⁴⁶ 6	26 ⁵⁹ 26	8 ³¹ 8	20 ²² 20	21 ¹¹ 21	9 ¹³ 9	21 ⁴ 21	W 27
T 28	20 20 32	4 ²⁰ 54	7 ⁵³ 23	1 ¹⁴ 1	17 ³⁹ 17	2 ²¹ 2	10 ⁴⁸ 10	14 ²⁰ 14	6 ⁴⁸ 6	26 ⁵⁸ 26	8 ³¹ 8	20 ²⁰ 20	21 ⁸ 21	9 ²⁰ 9	21 ¹ 21	T 28
F 29	20 24 28	5 ¹⁸ 18	22 ²⁵ 22	2 ²¹ 2	18 ⁵³ 18	2 ⁵⁹ 2	11 ¹ 1	14 ²⁸ 14	6 ⁵⁰ 6	26 ⁵⁷ 26	8 ³¹ 8	20 ¹⁹ 20	21 ⁵ 21	9 ²⁶ 9	20 ⁵⁸ 20	F 29
S 30	20 28 25	6 ¹⁵ 42	7 ¹³ 36	3 ²⁵ 3	20 ⁶ 20	3 ³⁸ 3	11 ¹⁴ 11	14 ³⁵ 14	6 ⁵³ 6	26 ⁵⁶ 26	8 ³² 8	20 ¹⁸ 20	21 ¹ 21	9 ³³ 9	20 ⁵⁵ 20	S 30
S 31	20 32 22	7 ¹³ 08	22 ¹⁴ 46	4 ¹⁷ 27	21 ⁵⁰ 21	4 ¹⁶ 4	11 ²⁷ 11	14 ⁴³ 14	6 ⁵⁵ 6	26 ⁵⁵ 26	8 ³² 8	20 ¹⁸ 20	20 ⁵⁸ 20	9 ⁴⁰ 9	20 ⁵² 20	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	23n11	25n48	3n 6	24n 5	1n49	21n41	0s55	23n37	0n59	23n17	0s 6	18n18	0n51	21n 8	0s 7	F 1
S 2	23 7	22 14	1 55	23 50	1 51	21 51	0 53	23 33	1 0	23 16	0 6	18 16	0 51	21 9	0 7	S 2
S 3	23 3	17 12	0 37	23 32	1 52	22 0	0 51	23 28	1 0	23 16	0 5	18 14	0 51	21 9	0 7	S 3
M 4	22 58	11 11	0s44	23 13	1 53	22 9	0 48	23 24	1 0	23 15	0 5	18 12	0 51	21 10	0 7	M 4
T 5	22 53	4 43	1 59	22 52	1 52	22 18	0 46	23 19	1 0	23 15	0 5	18 10	0 51	21 10	0 7	T 5
W 6	22 47	1s50	3 6	22 29	1 52	22 26	0 43	23 14	1 1	23 14	0 5	18 8	0 51	21 11	0 7	W 6
T 7	22 41	8 7	4 0	22 4	1 50	22 33	0 41	23 9	1 1	23 14	0 5	18 6	0 51	21 11	0 7	T 7
F 8	22 35	13 53	4 40	21 38	1 48	22 39	0 38	23 4	1 1	23 13	0 5	18 4	0 52	21 12	0 7	F 8
S 9	22 28	18 52	5 4	21 10	1 45	22 45	0 36	22 58	1 1	23 13	0 5	18 2	0 52	21 12	0 7	S 9
S 10	22 21	22 54	5 12	20 42	1 42	22 50	0 33	22 53	1 2	23 12	0 5	18 0	0 52	21 13	0 7	S 10
M 11	22 14	25 46	5 5	20 12	1 38	22 55	0 31	22 47	1 2	23 12	0 5	17 58	0 52	21 13	0 7	M 11
T 12	22 6	27 21	4 44	19 41	1 33	22 59	0 28	22 41	1 2	23 11	0 5	17 56	0 52	21 14	0 7	T 12
W 13	21 58	27 36	4 10	19 9	1 28	23 2	0 25	22 35	1 2	23 10	0 5	17 54	0 52	21 14	0 7	W 13
T 14	21 49	26 31	3 25	18 37	1 23	23 5	0 23	22 28	1 3	23 10	0 4	17 52	0 52	21 15	0 7	T 14
F 15	21 40	24 14	2 32	18 4	1 17	23 7	0 20	22 22	1 3	23 9	0 4	17 50	0 52	21 15	0 7	F 15
S 16	21 31	20 55	1 32	17 30	1 11	23 8	0 18	22 15	1 3	23 8	0 4	17 48	0 52	21 16	0 7	S 16
S 17	21 21	16 45	0 29	16 56	1 4	23 8	0 15	22 9	1 3	23 7	0 4	17 46	0 52	21 16	0 7	S 17
M 18	21 11	11 58	0n36	16 21	0 56	23 8	0 12	22 2	1 4	23 7	0 4	17 44	0 52	21 17	0 7	M 18
T 19	21 1	6 44	1 40	15 46	0 49	23 8	0 10	21 54	1 4	23 6	0 4	17 42	0 52	21 17	0 7	T 19
W 20	20 50	1 13	2 40	15 11	0 41	23 6	0 7	21 47	1 4	23 5	0 4	17 40	0 52	21 18	0 7	W 20
T 21	20 39	4n24	3 33	14 35	0 32	23 4	0 5	21 40	1 4	23 4	0 4	17 38	0 52	21 18	0 7	T 21
F 22	20 27	9 58	4 18	14 0	0 23	23 1	0 2	21 32	1 4	23 4	0 4	17 36	0 52	21 18	0 7	F 22
S 23	20 15	15 15	4 52	13 24	0 14	22 58	0n 0	21 24	1 5	23 3	0 4	17 34	0 52	21 19	0 7	S 23
S 24	20 3	20 2	5 12	12 49	0 5	22 54	0 3	21 16	1 5	23 2	0 4	17 32	0 52	21 19	0 7	S 2

ASTRODIENST EPHEMERIS for the year 1859

geocentric

AUGUST 1859

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 36 18	8♂10'34	7♂46	5♂26	22♂33	4♂55	11♂40	14♂51	6♂57	26♂55	8♂32	20♂18	20♂55	9♂46	20♂49	M 1
T 2	20 40 15	9° 8'00	22°29	6°23	23°46	5°34	11°53	14°58	6°59	26♂54	8°32	20°19	20°52	9°53	20♂46	T 2
W 3	20 44 11	10° 5'28	6♂49	7°16	25° 0	6°12	12° 6	15° 6	7° 1	26°53	8°32	20°20	20°49	10° 0	20°43	W 3
T 4	20 48 8	11° 2'56	20°43	8° 6	26°14	6°51	12°18	15°14	7° 3	26°52	8°32	20°20	20°46	10° 6	20°40	T 4
F 5	20 52 4	12° 0'25	4♂12	8°53	27°27	7°29	12°31	15°21	7° 5	26°50	8°32	20°21	20°42	10°13	20°37	F 5
S 6	20 56 1	12°57'55	17°17	9°36	28°41	8° 8	12°44	15°29	7° 7	26°49	8°32	20°R21	20°39	10°20	20°34	S 6
S 7	20 59 57	13°55'25	0♂1	10°16	29°54	8°46	12°56	15°37	7° 9	26°48	8°33	20°21	20°36	10°26	20°31	S 7
M 8	21 3 54	14°52'56	12°27	10°52	1♂ 8	9°24	13° 9	15°45	7°10	26°47	8°33	20°20	20°33	10°33	20°28	M 8
T 9	21 7 51	15°50'29	24°39	11°24	2°22	10° 3	13°21	15°52	7°12	26°46	8°R33	20°19	20°30	10°40	20°25	T 9
W10	21 11 47	16°48'02	6♂40	11°52	3°35	10°41	13°34	16° 0	7°14	26°45	8°33	20°19	20°27	10°46	20°21	W10
T 11	21 15 44	17°45'36	18°34	12°15	4°49	11°20	13°46	16° 8	7°16	26°44	8°33	20°19	20°23	10°53	20°18	T 11
F 12	21 19 40	18°43'11	0♂24	12°33	6° 3	11°58	13°58	16°15	7°17	26°43	8°32	20°18	20°20	10°59	20°15	F 12
S 13	21 23 37	19°40'47	12°12	12°47	7°17	12°36	14°11	16°23	7°19	26°41	8°32	20°18	20°17	11° 6	20°12	S 13
S 14	21 27 33	20°38'25	24° 0	12°56	8°31	13°15	14°23	16°31	7°20	26°40	8°32	20°18	20°14	11°13	20° 9	S 14
M15	21 31 30	21°36'03	5♂52	12°R59	9°44	13°53	14°35	16°38	7°22	26°39	8°32	20°18	20°11	11°19	20° 6	M15
T 16	21 35 26	22°33'43	17°48	12°57	10°58	14°31	14°47	16°46	7°23	26°38	8°32	20°18	20° 7	11°26	20° 3	T 16
W17	21 39 23	23°31'25	29°52	12°49	12°12	15°10	14°59	16°54	7°25	26°36	8°32	20°18	20° 4	11°33	20° 0	W17
T 18	21 43 19	24°29'07	12♂7	12°35	13°26	15°48	15°11	17° 1	7°26	26°35	8°32	20°17	20° 1	11°39	19°56	T 18
F 19	21 47 16	25°26'52	24°34	12°16	14°40	16°26	15°23	17° 9	7°27	26°34	8°31	20°17	19°58	11°46	19°53	F 19
S 20	21 51 13	26°24'38	7♂16	11°51	15°54	17° 5	15°35	17°17	7°29	26°32	8°31	20°16	19°55	11°53	19°50	S 20
S 21	21 55 9	27°22'26	20°18	11°21	17° 8	17°43	15°46	17°24	7°30	26°31	8°31	20°16	19°52	11°59	19°47	S 21
M22	21 59 6	28°20'16	3♂40	10°45	18°22	18°21	15°58	17°32	7°31	26°29	8°31	20°D16	19°48	12° 6	19°44	M22
T 23	22 3 2	29°18'07	17°26	10° 4	19°36	18°59	16°10	17°39	7°32	26°28	8°30	20°16	19°45	12°13	19°41	T 23
W24	22 6 59	0♂16'00	1♂35	9°19	20°51	19°38	16°21	17°47	7°33	26°27	8°30	20°17	19°42	12°19	19°38	W24
T 25	22 10 55	1°13'55	16° 6	8°30	22° 5	20°16	16°33	17°55	7°34	26°25	8°30	20°18	19°39	12°26	19°35	T 25
F 26	22 14 52	2°11'52	0♂55	7°38	23°19	20°54	16°44	18° 2	7°35	26°24	8°29	20°19	19°36	12°32	19°32	F 26
S 27	22 18 49	3° 9'50	15°57	6°43	24°33	21°32	16°55	18°10	7°36	26°22	8°29	20°R19	19°32	12°39	19°29	S 27
S 28	22 22 45	4° 7'50	1♂ 3	5°47	25°47	22°11	17° 7	18°17	7°37	26°21	8°29	20°19	19°29	12°46	19°26	S 28
M29	22 26 42	5° 5'52	16° 5	4°52	27° 2	22°49	17°18	18°25	7°38	26°19	8°28	20°18	19°26	12°52	19°23	M29
T 30	22 30 38	6° 3'55	0♂53	3°57	28°16	23°27	17°29	18°32	7°38	26°18	8°28	20°16	19°23	12°59	19°20	T 30
W31	22 34 35	7♂ 2'00	15♂22	3♂ 5	29♂30	24♂ 5	17♂40	18♂40	7♂39	26♂16	8♂27	20♂14	19♂20	13♂ 6	19♂17	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	18n14	7n11	1s35	8n17	1s20	21n57	0n23	20n 7	1n 6	22n54	0s 3	17n14	0n53	21n22	0s 7	2s25
T 2	17 59	0 24	2 49	7 45	1 32	21 47	0 25	19 58	1 6	22 53	0 3	17 12	0 53	21 23	0 7	2 26
W 3	17 44	6s14	3 50	7 15	1 43	21 36	0 28	19 49	1 7	22 52	0 3	17 10	0 53	21 23	0 7	2 26
T 4	17 28	12 21	4 36	6 46	1 55	21 25	0 30	19 39	1 7	22 51	0 2	17 8	0 53	21 23	0 7	2 26
F 5	17 12	17 42	5 5	6 17	2 7	21 13	0 32	19 29	1 7	22 50	0 2	17 5	0 53	21 24	0 7	2 27
S 6	16 56	22 4	5 17	5 50	2 19	21 0	0 34	19 20	1 7	22 49	0 2	17 3	0 53	21 24	0 7	2 27
S 7	16 40	25 16	5 13	5 24	2 30	20 47	0 37	19 10	1 7	22 48	0 2	17 1	0 53	21 24	0 7	2 28
M 8	16 23	27 10	4 54	5 0	2 42	20 33	0 39	19 0	1 7	22 47	0 2	16 59	0 53	21 25	0 7	2 28
T 9	16 6	27 43	4 22	4 37	2 53	20 19	0 41	18 50	1 7	22 45	0 2	16 57	0 53	21 25	0 7	2 29
W10	15 49	26 57	3 39	4 16	3 5	20 4	0 43	18 39	1 8	22 44	0 2	16 54	0 54	21 25	0 7	2 29
T 11	15 31	24 56	2 47	3 57	3 16	19 48	0 45	18 29	1 8	22 43	0 2	16 52	0 54	21 25	0 7	2 30
F 12	15 14	21 51	1 48	3 40	3 27	19 32	0 47	18 18	1 8	22 42	0 2	16 50	0 54	21 26	0 7	2 30
S 13	14 56	17 52	0 45	3 25	3 37	19 16	0 49	18 8	1 8	22 41	0 2	16 48	0 54	21 26	0 7	2 31
S 14	14 37	13 13	0n21	3 13	3 47	18 58	0 51	17 57	1 8	22 39	0 1	16 45	0 54	21 26	0 7	2 31
M15	14 19	8 3	1 25	3 3	3 57	18 41	0 53	17 46	1 8	22 38	0 1	16 43	0 54	21 26	0 7	2 32
T 16	14 0	2 34	2 27	2 55	4 6	18 22	0 55	17 35	1 8	22 37	0 1	16 41	0 54	21 27	0 7	2 32
W17	13 41	3n 3	3 23	2 51	4 14	18 4	0 57	17 24	1 9	22 36	0 1	16 39	0 54	21 27	0 7	2 33
T 18	13 22	8 37	4 10	2 49	4 21	17 44	0 59	17 12	1 9	22 35	0 1	16 37	0 54	21 27	0 7	2 33
F 19	13 3	13 57	4 46	2 51	4 27	17 24	1 0	17 1	1 9	22 33	0 1	16 34	0 54	21 27	0 7	2 34
S 20	12 43	18 49	5 9	2 56	4 32	17 4	1 2	16 49	1 9	22 32	0 1	16 32	0 54	21 28	0 7	2 35
S 21	12 24	22 56	5 17	3 4	4 35	16 43	1 4	16 38	1 9	22 31	0 1	16 30	0 55	21 28	0 7	2 35
M22	12 4	25 57	5 9	3 16	4 37	16 22	1 5	16 26	1 9	22 30	0 1	16 28	0 55	21 28	0 7	2 36
T 23	11 44	27 33	4 43	3 30	4 38	16 0	1 7	16 14	1 9	22 28	0 1	16 25	0 55	21 28	0 7	2 36
W24	11 23	27 26	3 59	3 48	4 37	15 38	1 8	16 2	1 9	22 27	0 0	16 23	0 55	21 28	0 7	2 37
T 25	11 3	25 27	2 59	4 9	4 34	15 15	1 9	15 50	1 9	22 26	0 0	16 21	0 55	21 29	0 7	2 38
F 26	10 42	21 41	1 46	4 33	4 29	14 52	1 11	15 38	1 10	22 24	0 0	16 19	0 55	21 29	0 7	2 38
S 27	10 21	16 27	0 24	5 0	4 22	14 29	1 12	15 26	1 10	22 23	0 0	16 16	0 55	21 29	0 7	2 39
S 28	10 0	10 11	0s59	5 28	4 13	14 5	1 13	15 14	1 10	22 22	0 0	16 14	0 55	21 29	0 7	2 39
M29	9 39	3 23	2 18	5 58	4 3	13 41	1 15	15 1	1 10	22 20	0n 0	16 12	0 55	21 29	0 7	2 40
T 30	9 18	3s30	3 26	6 29	3 50	13 16	1 16	14 49	1 10	22 19	0 0	16 10	0 55	21 29	0 7	2 41
W31	8n56	10s 2	4s20	7n 1	3s36	12n51	1n17	14n36	1n10	22n18	0n 0	16n 7	0n56	21n29	0s 7	2s41

Julian Day Number = 2400257.5, Delta T = 9.06 sec
 Ecliptic obliquity = 23°27'34", Nutation = 0°00'12", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°46'46", Lahiri = 21°53'46"

ASTRODIENST EPHEMERIS for the year 1859
geocentric

SEPTEMBER 1859

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 38 31	8 ^h 0'06	29 ^h 25	2°R16	0 ^h 45	24 ^h 43	17 ^h 51	18 ^h 47	7 ^h 40	26°R14	8°R27	20°R12	19 ^h 17	13 ^h 12	19°R14	T 1
F 2	22 42 28	8°58'13	13 ^h 1	1 ^h 31	1°59	25°21	18° 1	18°55	7°40	26 ^h 13	8°R27	20 ^h 10	19°13	13°19	19 ^h 11	F 2
S 3	22 46 24	9°56'23	26°11	0°53	3°13	26° 0	18°12	19° 2	7°41	26°11	8°26	20° 9	19°10	13°26	19° 8	S 3
S 4	22 50 21	10°54'33	8 ^h 56	0°21	4°28	26°38	18°23	19° 9	7°41	26°10	8°25	20°D 8	19° 7	13°32	19° 5	S 4
M 5	22 54 17	11°52'45	21°21	29 ^h 56	5°42	27°16	18°33	19°17	7°42	26° 8	8°25	20° 8	19° 4	13°39	19° 2	M 5
T 6	22 58 14	12°50'59	3 ^h 30	29°40	6°57	27°54	18°44	19°24	7°42	26° 7	8°24	20° 9	19° 1	13°46	19° 0	T 6
W 7	23 2 11	13°49'14	15°27	29°D32	8°11	28°32	18°54	19°31	7°43	26° 5	8°24	20°11	18°58	13°52	18°57	W 7
T 8	23 6 7	14°47'30	27°17	29°33	9°26	29°10	19° 4	19°38	7°43	26° 3	8°23	20°13	18°54	13°59	18°54	T 8
F 9	23 10 4	15°45'48	9 ^h 5	29°43	10°40	29°48	19°14	19°46	7°43	26° 2	8°23	20°14	18°51	14° 6	18°52	F 9
S 10	23 14 0	16°44'08	20°53	0 ^h 2	11°55	0 ^h 26	19°24	19°53	7°43	26° 0	8°22	20°R15	18°48	14°12	18°49	S 10
S 11	23 17 57	17°42'29	2 ^h 45	0°30	13° 9	1° 4	19°34	20° 0	7°44	25°58	8°21	20°14	18°45	14°19	18°46	S 11
M12	23 21 53	18°40'53	14°44	1° 6	14°24	1°42	19°44	20° 7	7°44	25°57	8°21	20°12	18°42	14°25	18°44	M12
T 13	23 25 50	19°39'18	26°52	1°51	15°38	2°20	19°54	20°14	7°R44	25°55	8°20	20° 8	18°38	14°32	18°41	T 13
W14	23 29 46	20°37'44	9 ^h 9	2°45	16°53	2°58	20° 4	20°21	7°44	25°54	8°19	20° 4	18°35	14°39	18°39	W14
T 15	23 33 43	21°36'13	21°38	3°45	18° 8	3°36	20°13	20°28	7°44	25°52	8°19	19°58	18°32	14°45	18°36	T 15
F 16	23 37 40	22°34'44	4 ^h 19	4°53	19°22	4°14	20°22	20°35	7°44	25°50	8°18	19°53	18°29	14°52	18°34	F 16
S 17	23 41 36	23°33'17	17°13	6° 7	20°37	4°52	20°32	20°42	7°43	25°49	8°17	19°48	18°26	14°59	18°31	S 17
S 18	23 45 33	24°31'53	0 ^h 21	7°27	21°52	5°30	20°41	20°49	7°43	25°47	8°16	19°44	18°23	15° 5	18°29	S 18
M19	23 49 29	25°30'30	13°45	8°52	23° 6	6° 8	20°50	20°56	7°43	25°45	8°16	19°42	18°19	15°12	18°27	M19
T 20	23 53 26	26°29'10	27°26	10°22	24°21	6°46	20°59	21° 2	7°43	25°44	8°15	19°D42	18°16	15°19	18°25	T 20
W21	23 57 22	27°27'52	11 ^h 23	11°56	25°36	7°24	21° 8	21° 9	7°42	25°42	8°14	19°42	18°13	15°25	18°22	W21
T 22	0 1 19	28°26'37	25°37	13°33	26°51	8° 2	21°16	21°16	7°42	25°40	8°13	19°44	18°10	15°32	18°20	T 22
F 23	0 5 15	29°25'23	10 ^h 6	15°13	28° 5	8°40	21°25	21°22	7°42	25°39	8°12	19°45	18° 7	15°39	18°18	F 23
S 24	0 9 12	0 ^h 24'12	24°47	16°55	29°20	9°18	21°33	21°29	7°41	25°37	8°12	19°R45	18° 4	15°45	18°16	S 24
S 25	0 13 9	1°23'03	9 ^h 35	18°40	0 ^h 35	9°56	21°42	21°36	7°40	25°35	8°11	19°43	18° 0	15°52	18°14	S 25
M26	0 17 5	2°21'56	24°23	20°25	1°50	10°34	21°50	21°42	7°40	25°34	8°10	19°40	17°57	15°58	18°12	M26
T 27	0 21 2	3°20'51	9 ^h 4	22°12	3° 5	11°12	21°58	21°49	7°39	25°32	8° 9	19°35	17°54	16° 5	18°10	T 27
W28	0 24 58	4°19'48	23°29	23°59	4°20	11°50	22° 6	21°55	7°38	25°30	8° 8	19°28	17°51	16°12	18° 8	W28
T 29	0 28 55	5°18'47	7 ^h 33	25°47	5°35	12°28	22°14	22° 1	7°38	25°29	8° 7	19°20	17°48	16°18	18° 6	T 29
F 30	0 32 51	6 ^h 17'48	21 ^h 12	27 ^h 36	6 ^h 49	13 ^h 6	22 ^h 21	22 ^h 7	7 ^h 37	25 ^h 27	8 ^h 6	19 ^h 13	17 ^h 44	16 ^h 25	18 ^h 5	F 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	8n35	15s53	4s55	7n33	3s21	12n26	1n18	14n24	1n10	22n16	0n 0	16n 5	0n56	21n30	0s 7	2s42	1s19	1s16	16s26	14s46	15s 3	17s23	8s28	6n56	
F 2	8 13	20 44	5 13	8 5	3 4	12 0	1 19	14 11	1 10	22 15	0 0	16 3	0 56	21 30	0 7	2 43	1 19	1 16	16 26	14 46	15 4	17 21	8 30	6 56	
S 3	7 51	24 24	5 14	8 35	2 46	11 34	1 20	13 58	1 10	22 14	0 1	16 1	0 56	21 30	0 7	2 43	1 19	1 17	16 26	14 47	15 5	17 18	8 31	6 55	
S 4	7 29	26 44	4 59	9 3	2 28	11 8	1 20	13 45	1 10	22 12	0 1	15 59	0 56	21 30	0 7	2 44	1 19	1 17	16 27	14 47	15 6	17 15	8 32	6 55	
M 5	7 7	27 40	4 30	9 30	2 9	10 41	1 21	13 32	1 10	22 11	0 1	15 56	0 56	21 30	0 7	2 45	1 19	1 17	16 27	14 47	15 7	17 12	8 33	6 55	
T 6	6 44	27 15	3 50	9 53	1 50	10 14	1 22	13 19	1 11	22 10	0 1	15 54	0 56	21 30	0 7	2 45	1 19	1 18	16 27	14 47	15 8	17 10	8 34	6 55	
W 7	6 22	25 33	3 0	10 14	1 30	9 47	1 22	13 6	1 11	22 8	0 1	15 52	0 56	21 30	0 7	2 46	1 19	1 18	16 28	14 46	15 9	17 7	8 35	6 55	
T 8	6 0	22 44	2 3	10 32	1 11	9 19	1 23	12 53	1 11	22 7	0 1	15 50	0 56	21 30	0 7	2 46	1 19	1 19	16 28	14 46	15 10	17 4	8 36	6 54	
F 9	5 37	18 59	1 1	10 46	0 53	8 52	1 23	12 39	1 11	22 6	0 1	15 48	0 57	21 30	0 7	2 47	1 19	1 19	16 28	14 45	15 11	17 1	8 37	6 54	
S 10	5 14	14 29	0n 4	10 56	0 35	8 24	1 24	12 26	1 11	22 5	0 1	15 46	0 57	21 30	0 7	2 48	1 19	1 20	16 28	14 45	15 12	16 59	8 38	6 54	
S 11	4 52	9 26	1 8	11 2	0 17	7 55	1 24	12 12	1 11	22 3	0 1	15 44	0 57	21 30	0 7	2 48	1 19	1 20	16 29	14 45	15 13	16 56	8 39	6 53	
M12	4 29	4 1	2 10	11 5	0 1	7 27	1 25	11 59	1 11	22 2	0 1	15 41	0 57	21 30	0 7	2 49	1 19	1 20	16 29	14 46	15 14	16 53	8 40	6 53	
T 13	4 6	1n37	3 7	11 3	0n14	6 58	1 25	11 45	1 11	22 1	0 2	15 39	0 57	21 30	0 7	2 50	1 19	1 21	16 29	14 47	15 15	16 50	8 41	6 53	
W14	3 43	7 15	3 56	10 57	0 29	6 29	1 25	11 32	1 11	21 59	0 2	15 37	0 57	21 30	0 7	2 50	1 19	1 21	16 29	14 48	15 16	16 48	8 42	6 53	
T 15	3 20	12 41	4 35	10 48	0 42	6 0	1 25	11 18	1 11	21 58	0 2	15 35	0 57	21 30	0 7	2 51	1 19	1 22	16 30	14 50	15 17	16 45	8 43	6 52	
F 16	2 57	17 41	5 0	10 34	0 54	5 31	1 25	11 4	1 11	21 57	0 2	15 33	0 57	21 30	0 7	2 52	1 19	1 22	16 30	14 52	15 18	16 42	8 44	6 52	
S 17	2 34	21 58	5 11	10 17	1 5	5 1	1 25	10 50	1 11	21 55	0 2	15 31	0 58	21 30	0 7	2 52	1 19	1 23	16 30	14 53	15 19	16 39	8 45	6 52	
S 18	2 10	25 14	5 6	9 56	1 15	4 32	1 25	10 36	1 11	21 54	0 2	15 29	0 58	21 30	0 7	2 53	1 19	1 23	16 30	14 55	15 20	16 36	8 46	6 51	
M19	1 47	27 11	4 45	9 32	1 23	4 2	1 25	10 22	1 11	21 53	0 2	15 27	0 58	21 30	0 7	2 54	1 19	1 23	16 30	14 55	15 21	16 34	8 47	6 51	
T 20	1 24	27 33	4 7	9 5	1 31	3 32	1 25	10 8	1 11	21 52	0 2	15 25	0 58	21 30	0 7	2 54	1 19	1 24	16 31	14 55	15 22	16 31	8 48	6 51	
W21	1 1	26 11	3 14	8 35	1 37	3 2	1 24	9 54	1 11	21 50	0 3	15 23	0 58	21 30	0 7	2 55	1 19	1 24	16 31	14 55	15 23	16 28	8 49	6 50	
T 22	0 37	23 8	2 8	8 2	1 42	2 32	1 24	9 40	1 11	21 49	0 3	15 21	0 58	21 30	0 7	2 56	1 19	1 25	16 31	14 55	15 24	16 25	8 50	6 50	
F 23	0 14	18 34	0 52	7 27	1 46	2 2	1 24	9 26	1 11	21 48	0 3	15 19	0 58	21 30	0 7	2 56	1 19	1 25	16 31	14 54	15 25	16 22	8 51	6 50	
S 24	0s10	12 50	0s27	6 50	1 49	1 32	1 23	9 11	1 11	21 47	0 3	15 17	0 59	21 30	0 7	2 57	1 19	1 26	16 31	14 54	15 26	16 20	8 52	6 49	
S 25	0 33	6 21	1 46	6 12	1 51	1 2	1 23	8 57	1 11	21 46	0 3	15 15	0 59	21 30	0 7	2 58	1 19	1 26	16 32	14 55	15 27	16 17	8 53	6 49	
M26	0 56	0s28	2 57	5 31	1 52	0 31	1 22	8 43	1 11	21 44	0 3	15 13	0 59	21 30	0 7	2 58	1 19	1 27	16 32	14 56	15 28	16 14	8 54	6 49	
T 27	1 20	7 12	3 55	4 49	1 53	0 1	1 21	8 28	1 11	21 43	0 3	15 11	0 59	21 29	0 7	2 59	1 19	1 27	16 32	14 58	15 29	16 11	8 55	6 48	
W28	1 43	13 25	4 38	4 6	1 52	0s29	1 21	8 14	1 12	21 42	0 3	15 9	0 59	21 29	0 7	3 0	1 19	1 27	16 32	15 0	15 30	16 8	8 56	6 48	
T 29	2 7	18 48	5 2	3 22	1 51	1 0	1 20	7 59	1 12	21 41	0 3	15 7	0 59	21 29	0 7	3 0	1 19	1 28	16 32	15 2	15 31	16 5	8 57	6 48	
F 30	2s30	23s 2	5s 8	2n38	1n49	1s30	1n19	7n45	1n12	21n40	0n 4	15n 5	0n59	21n29	0s 7	3s 1	1s19	1s28	16s33	15s 4	15s32	16s 3	8s58	6n47	

ASTRODIENST EPHEMERIS for the year 1859
geocentric

OCTOBER 1859

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 36 48	7♌16'51	4♌26	29♏24	8♏ 4	13♏44	22♏29	22♏14	7°R36	25°R25	8°R 5	19°R 7	17♏41	16♏32	18°R 3	S 1
S 2	0 40 44	8°15'55	17°14	1♏12	9°19	14°22	22°36	22°20	7♏35	25°R24	8°R 4	19°R 3	17°38	16°38	18°R 1	S 2
M 3	0 44 41	9°15'02	29°41	3° 0	10°34	15° 0	22°43	22°26	7°34	25°22	8° 3	19° 0	17°35	16°45	18° 0	M 3
T 4	0 48 38	10°14'10	11♏30	4°48	11°49	15°38	22°50	22°32	7°33	25°21	8° 2	19°D 0	17°32	16°52	17°58	T 4
W 5	0 52 34	11°13'20	23°46	6°35	13° 4	16°16	22°57	22°38	7°32	25°19	8° 1	19° 0	17°29	16°58	17°57	W 5
T 6	0 56 31	12°12'31	5♏36	8°21	14°19	16°53	23° 4	22°44	7°31	25°17	8° 0	19° 2	17°25	17° 5	17°55	T 6
F 7	1 0 27	13°11'45	17°23	10° 7	15°34	17°31	23°11	22°50	7°30	25°16	7°59	19°R 2	17°22	17°12	17°54	F 7
S 8	1 4 24	14°11'00	29°14	11°53	16°49	18° 9	23°17	22°55	7°29	25°14	7°58	19° 2	17°19	17°18	17°53	S 8
S 9	1 8 20	15°10'17	11♏11	13°37	18° 4	18°47	23°24	23° 1	7°27	25°13	7°57	18°59	17°16	17°25	17°51	S 9
M10	1 12 17	16° 9'36	23°18	15°21	19°19	19°25	23°30	23° 7	7°26	25°11	7°56	18°54	17°13	17°31	17°50	M10
T 11	1 16 13	17° 8'57	5°Y38	17° 4	20°34	20° 3	23°36	23°12	7°25	25°10	7°55	18°47	17° 9	17°38	17°49	T 11
W12	1 20 10	18° 8'20	18°12	18°47	21°49	20°41	23°42	23°18	7°24	25° 8	7°54	18°37	17° 6	17°45	17°48	W12
T 13	1 24 6	19° 7'45	1♏ 1	20°29	23° 4	21°18	23°47	23°23	7°22	25° 7	7°53	18°26	17° 3	17°51	17°47	T 13
F 14	1 28 3	20° 7'12	14° 2	22°10	24°19	21°56	23°53	23°29	7°21	25° 5	7°52	18°15	17° 0	17°58	17°46	F 14
S 15	1 32 0	21° 6'41	27°17	23°51	25°34	22°34	23°58	23°34	7°19	25° 4	7°51	18° 5	16°57	18° 5	17°45	S 15
S 16	1 35 56	22° 6'13	10♏43	25°31	26°49	23°12	24° 3	23°39	7°18	25° 2	7°50	17°57	16°54	18°11	17°44	S 16
M17	1 39 53	23° 5'47	24°19	27°10	28° 4	23°50	24° 9	23°44	7°16	25° 1	7°49	17°51	16°50	18°18	17°44	M17
T 18	1 43 49	24° 5'23	8♏ 4	28°48	29°19	24°28	24°13	23°49	7°14	25° 0	7°48	17°48	16°47	18°25	17°43	T 18
W19	1 47 46	25° 5'01	21°59	0♏26	0♏34	25° 6	24°18	23°54	7°13	24°58	7°47	17°D47	16°44	18°31	17°42	W19
T 20	1 51 42	26° 4'42	6♏ 2	2° 4	1°49	25°43	24°23	23°59	7°11	24°57	7°46	17°47	16°41	18°38	17°42	T 20
F 21	1 55 39	27° 4'25	20°14	3°40	3° 4	26°21	24°27	24° 4	7° 9	24°55	7°45	17°R47	16°38	18°45	17°41	F 21
S 22	1 59 36	28° 4'10	4♏32	5°16	4°19	26°59	24°31	24° 9	7° 8	24°54	7°43	17°46	16°35	18°51	17°41	S 22
S 23	2 3 32	29° 3'58	18°55	6°52	5°34	27°37	24°35	24°14	7° 6	24°53	7°42	17°43	16°31	18°58	17°40	S 23
M24	2 7 29	0♏ 3'47	3♏19	8°27	6°49	28°15	24°39	24°18	7° 4	24°52	7°41	17°37	16°28	19° 5	17°40	M24
T 25	2 11 25	1° 3'39	17°37	10° 1	8° 5	28°52	24°43	24°23	7° 2	24°50	7°40	17°28	16°25	19°11	17°40	T 25
W26	2 15 22	2° 3'33	1♏46	11°35	9°20	29°30	24°46	24°27	7° 0	24°49	7°39	17°17	16°22	19°18	17°40	W26
T 27	2 19 18	3° 3'29	15°38	13° 9	10°35	0♏ 8	24°49	24°31	6°58	24°48	7°38	17° 4	16°19	19°24	17°40	T 27
F 28	2 23 15	4° 3'26	29°10	14°42	11°50	0°46	24°53	24°36	6°56	24°47	7°37	16°52	16°15	19°31	17°D40	F 28
S 29	2 27 11	5° 3'26	12♏21	16°14	13° 5	1°24	24°55	24°40	6°54	24°45	7°36	16°42	16°12	19°38	17°40	S 29
S 30	2 31 8	6° 3'27	25° 8	17°46	14°20	2° 1	24°58	24°44	6°52	24°44	7°34	16°33	16° 9	19°44	17°40	S 30
M31	2 35 5	7♏ 3'30	7♏35	19♏18	15♏35	2♏39	25° 1	24°44	6♏50	24°43	7♏33	16°27	16° 6	19°55	17°40	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	decl	lat	
S 1	2s54	25s55	4s58	1n53	1n47	2s 1	1n18	7n30	1n12	21n39	0n 4	15n 3	1n 0	21n29	0s 7	3s 2	1s19	1s29	16s33	15s 6	15s33	16s 0	8s58	6n47				
S 2	3 17	27 22	4 32	1 7	1 44	2 31	1 17	7 16	1 12	21 38	0 4	15 1	1 0	21 29	0 7	3 2	1 19	1 29	16 33	15 8	15 34	15 57	8 59	6 46				
M 3	3 40	27 22	3 54	0 21	1 41	3 1	1 16	7 1	1 12	21 36	0 4	14 59	1 0	21 29	0 7	3 3	1 19	1 30	16 33	15 8	15 35	15 54	9 0	6 46				
T 4	4 3	26 2	3 7	0s25	1 37	3 32	1 15	6 46	1 12	21 35	0 4	14 58	1 0	21 29	0 7	3 4	1 19	1 30	16 33	15 8	15 36	15 51	9 1	6 46				
W 5	4 27	23 32	2 12	1 11	1 33	4 2	1 14	6 31	1 12	21 34	0 4	14 56	1 0	21 28	0 7	3 4	1 19	1 30	16 33	15 8	15 37	15 48	9 2	6 45				
T 6	4 50	20 3	1 12	1 58	1 29	4 32	1 13	6 17	1 12	21 33	0 4	14 54	1 0	21 28	0 7	3 5	1 19	1 31	16 33	15 8	15 38	15 45	9 3	6 45				
F 7	5 13	15 47	0 9	2 44	1 24	5 2	1 11	6 2	1 12	21 32	0 4	14 52	1 0	21 28	0 7	3 5	1 19	1 31	16 34	15 8	15 38	15 43	9 3	6 44				
S 8	5 36	10 54	0n55	3 30	1 18	5 32	1 10	5 47	1 12	21 31	0 5	14 50	1 1	21 28	0 7	3 6	1 19	1 32	16 34	15 8	15 39	15 40	9 4	6 44				
S 9	5 59	5 35	1 56	4 15	1 13	6 2	1 9	5 32	1 12	21 30	0 5	14 49	1 1	21 28	0 7	3 7	1 19	1 32	16 34	15 9	15 40	15 37	9 5	6 43				
M10	6 22	0 1	2 53	5 1	1 7	6 32	1 7	5 17	1 11	21 30	0 5	14 47	1 1	21 27	0 7	3 7	1 19	1 33	16 34	15 10	15 41	15 34	9 6	6 43				
T 11	6 44	5n39	3 43	5 46	1 2	7 1	1 6	5 2	1 11	21 29	0 5	14 45	1 1	21 27	0 7	3 8	1 19	1 33	16 34	15 13	15 42	15 31	9 6	6 43				
W12	7 7	11 11	4 22	6 31	0 55	7 31	1 4	4 48	1 11	21 28	0 5	14 44	1 1	21 27	0 7	3 8	1 19	1 33	16 34	15 15	15 43	15 28	9 7	6 42				
T 13	7 30	16 21	4 50	7 15	0 49	8 0	1 3	4 33	1 11	21 27	0 5	14 42	1 1	21 27	0 7	3 9	1 19	1 34	16 34	15 19	15 44	15 25	9 8	6 42				
F 14	7 52	20 53	5 3	7 59	0 43	8 29	1 1	4 18	1 11	21 26	0 5	14 40	1 2	21 27	0 7	3 10	1 19	1 34	16 34	15 22	15 45	15 23	9 9	6 41				
S 15	8 15	24 26	5 0	8 42	0 36	8 58	0 59	4 3	1 11	21 25	0 5	14 39	1 2	21 26	0 7	3 10	1 19	1 35	16 34	15 25	15 46	15 20	9 9	6 41				
S 16	8 37	26 42	4 40	9 24	0 30	9 27	0 58	3 48	1 11	21 24	0 6	14 37	1 2	21 26	0 7	3 11	1 19	1 35	16 34	15 28	15 47	15 17	9 10	6 40				
M17	8 59	27 25	4 5	10 7	0 23	9 55	0 56	3 33	1 11	21 24	0 6	14 36	1 2	21 26	0 7	3 11	1 19	1 35	16 35	15 30	15 48	15 14	9 11	6 40				
T 18	9 21	26 27	3 15	10 48	0 17	10 24	0 54	3 18	1 11	21 23	0 6	14 34	1 2	21 26	0 7	3 12	1 19	1 36	16 35	15 31	15 49	15 11	9 11	6 40				
W19	9 43	23 51	2 13	11 29	0 10	10 52	0 52	3 2	1 11	21 22	0 6	14 33	1 2	21 25	0 7	3 12	1 19	1 36	16 35	15 31	15 50	15 8	9 12	6 39				
T 20	10 5	19 47	1 2	12 9	0 3	11 20	0 50	2 47	1 11	21 22	0 6	14 31	1 3	21 25	0 7	3 13	1 19	1 37	16 35	15 31	15 51	15 5	9 12	6 39				
F 21	10 26	14 33	0s13	12 49	0s 4	11 47	0 48	2 32	1 11	21 21	0 6	14 30	1 3	21 25	0 7	3 13	1 19	1 37	16 35	15 31	15 52	15 2	9 13	6 38				
S 22	10 48	8 29	1 28	13 27	0 11	12 15	0 46	2 17	1 11	21 20	0 6	14 28	1 3	21 24	0 7	3 14	1 19	1 37	16 35	15 31	15 53	14 59	9 14	6 38				
S 23	11 9	1 59	2 37	14 5	0 17	12 42	0 44	2 2	1 11	21 20	0 7	14 27	1 3	21 24	0 7	3 14	1 19	1 38	16 35	15 32	15 54	14 57	9 14	6 37				
M24	11 30	4s38	3 37	14 43	0 24	13 8	0 42	1 47	1 11	21 19	0 7	14 26	1 3	21 24	0 7	3 15	1 19	1 38	16 35	15 34	15 55	14 54	9 15	6 37				
T 25	11 51	10 57	4 22	15 19	0 31	13 35	0 40	1 32	1 11	21 19	0 7	14 24	1 4	21 24	0 7	3 15	1 19	1 38	16 35	15 37	15 56	14 51	9 15	6 36				
W26	12 12	16 38	4 50	15 55	0 38	14 1	0 38	1 17	1 11	21 18	0 7	14 23	1 4	21 23	0 7	3 16	1 19	1 39	16 35	15 40	15 57	14 48	9 16	6 36				
T 27	12 33	21 20	5 1	16 30	0 44	14 26	0 36	1 2	1 11	21 18	0 7	14 22	1 4	21 23	0 7	3 16	1 19	1 39	16 35	15 44	15 58	14 45	9 16	6 35				
F 28	12 53	24 47	4 54	17 4	0 51	14 52	0 34	0 47	1 11	21 17	0 7	14 21	1 4	21 23	0 7	3 17	1 19	1 40	16 35	15 48	15 59	14 42	9 17	6 35				
S 29	13 13	26 47	4 32	17 37	0 57	15 17	0 32	0 32	1 11	21 17	0 7	14 19	1 4	21 22	0 7	3 17	1 19	1 40	16 35	15 51	16 0	14 39	9 17	6 34				
S 30	13 33	27 18	3 56	18 10	1 4	15 41	0 29	0 16	1 11	21 17	0 8	14 18	1 5	21 22	0 7	3 18	1 19	1 40	16 35	15 53	16 1	14 36	9 17	6 34				
M31	13s53	26s24	3s10	18s41	1s10	16s 5	0n27	0n 1	1n10	21n16	0n 8	14n17	1n 5	21n22	0s 7	3s18	1s19	1s41	16s35	15s55	16s 1	14s33	9s18	6n34				

ASTRODIENST EPHEMERIS for the year 1859
geocentric

NOVEMBER 1859

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 39 1	8♉ 3'35	19♊45	20♉49	16♉50	3♊17	25♊3	24♉52	6♉48	24♉42	7♉32	16♉24	16♊3	19♊58	17♊40	T 1
W 2	2 42 58	9° 3'41	1♊42	22°19	18° 5	3°55	25° 5	24°56	6♉46	24♉41	7♉31	16♊23	16° 0	20° 4	17°40	W 2
T 3	2 46 54	10° 3'48	13°31	23°50	19°21	4°32	25° 7	24°59	6°44	24°40	7°30	16°23	15°56	20°11	17°41	T 3
F 4	2 50 51	11° 3'58	25°19	25°19	20°36	5°10	25° 9	25° 3	6°42	24°39	7°29	16°23	15°53	20°18	17°41	F 4
S 5	2 54 47	12° 4'08	7♊10	26°49	21°51	5°48	25°10	25° 6	6°39	24°38	7°28	16°21	15°50	20°24	17°42	S 5
S 6	2 58 44	13° 4'21	19°11	28°17	23° 6	6°26	25°12	25°10	6°37	24°37	7°27	16°18	15°47	20°31	17°42	S 6
M 7	3 2 40	14° 4'34	1♊24	29°46	24°21	7° 3	25°13	25°13	6°35	24°36	7°25	16°12	15°44	20°38	17°43	M 7
T 8	3 6 37	15° 4'50	13°54	1♊14	25°36	7°41	25°14	25°16	6°32	24°35	7°24	16° 3	15°41	20°44	17°43	T 8
W 9	3 10 33	16° 5'07	26°43	2°41	26°51	8°19	25°15	25°19	6°30	24°34	7°23	15°51	15°37	20°51	17°44	W 9
T 10	3 14 30	17° 5'25	9♊50	4° 8	28° 6	8°56	25°15	25°23	6°28	24°33	7°22	15°39	15°34	20°57	17°45	T 10
F 11	3 18 27	18° 5'46	23°15	5°34	29°21	9°34	25°16	25°25	6°26	24°32	7°21	15°25	15°31	21° 4	17°46	F 11
S 12	3 22 23	19° 6'08	6♉55	6°59	0♊37	10°12	25°16	25°28	6°23	24°32	7°20	15°13	15°28	21°11	17°47	S 12
S 13	3 26 20	20° 6'32	20°46	8°24	1°52	10°50	25°R16	25°31	6°21	24°31	7°19	15° 3	15°25	21°17	17°48	S 13
M14	3 30 16	21° 6'58	4♊45	9°48	3° 7	11°27	25°16	25°34	6°18	24°30	7°18	14°55	15°21	21°24	17°49	M14
T 15	3 34 13	22° 7'25	18°49	11°11	4°22	12° 5	25°15	25°36	6°16	24°29	7°17	14°51	15°18	21°31	17°50	T 15
W16	3 38 9	23° 7'55	2♉54	12°34	5°37	12°43	25°15	25°39	6°14	24°29	7°16	14°49	15°15	21°37	17°51	W16
T 17	3 42 6	24° 8'26	17° 0	13°55	6°52	13°20	25°14	25°41	6°11	24°28	7°14	14°48	15°12	21°44	17°52	T 17
F 18	3 46 3	25° 8'59	1♊9	15°15	8° 7	13°58	25°13	25°43	6° 9	24°27	7°13	14°48	15° 9	21°51	17°54	F 18
S 19	3 49 59	26° 9'33	15° 8	16°34	9°22	14°36	25°12	25°45	6° 6	24°27	7°12	14°47	15° 6	21°57	17°55	S 19
S 20	3 53 56	27°10'10	29°10	17°51	10°38	15°13	25°10	25°47	6° 4	24°26	7°11	14°44	15° 2	22° 4	17°57	S 20
M21	3 57 52	28°10'48	13♊7	19° 7	11°53	15°51	25° 9	25°49	6° 1	24°26	7°10	14°38	14°59	22°11	17°58	M21
T 22	4 1 49	29°11'28	26°59	20°20	13° 8	16°29	25° 7	25°51	5°59	24°25	7° 9	14°29	14°56	22°17	18° 0	T 22
W23	4 5 45	0♊12'10	10♉41	21°32	14°23	17° 6	25° 5	25°52	5°56	24°25	7° 8	14°17	14°53	22°24	18° 1	W23
T 24	4 9 42	1°12'53	24°11	22°41	15°38	17°44	25° 3	25°54	5°54	24°24	7° 7	14° 5	14°50	22°31	18° 3	T 24
F 25	4 13 38	2°13'37	7♊26	23°47	16°53	18°21	25° 0	25°56	5°51	24°24	7° 6	13°52	14°47	22°37	18° 5	F 25
S 26	4 17 35	3°14'23	20°23	24°50	18° 8	18°59	24°58	25°57	5°49	24°23	7° 5	13°41	14°43	22°44	18° 7	S 26
S 27	4 21 32	4°15'10	3♊3	25°49	19°23	19°37	24°55	25°58	5°46	24°23	7° 4	13°32	14°40	22°50	18° 8	S 27
M28	4 25 28	5°15'59	15°25	26°44	20°39	20°14	24°52	25°59	5°43	24°23	7° 3	13°26	14°37	22°57	18°10	M28
T 29	4 29 25	6°16'48	27°33	27°35	21°54	20°52	24°49	26° 0	5°41	24°23	7° 2	13°22	14°34	23° 4	18°12	T 29
W30	4 33 21	7♊17'38	9♊29	28♊19	23♊9	21♊29	24♊46	26♉1	5♉38	24♊22	7♉1	13°D21	14♊31	23♊10	18♊14	W30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14s12	24s15	2s16	19s12	1s16	16s29	0n25	0s14	1n10	21n16	0n 8	14n16	1n 5	21n21	0s 7	3s19	1s19	1s41	16s35	15s56	16s 2	14s30	9s18	6n33	
W 2	14 32	21 3	1 17	19 41	1 22	16 52	0 23	0 29	1 10	21 16	0 8	14 15	1 5	21 21	0 7	3 19	1 19	1 41	16 35	15 56	16 3	14 27	9 19	6 33	
T 3	14 51	17 1	0 15	20 10	1 28	17 15	0 20	0 44	1 10	21 16	0 8	14 14	1 5	21 20	0 7	3 19	1 19	1 41	16 35	15 56	16 4	14 24	9 19	6 32	
F 4	15 10	12 21	0n47	20 38	1 34	17 38	0 18	0 59	1 10	21 15	0 8	14 13	1 5	21 20	0 7	3 20	1 18	1 42	16 35	15 56	16 5	14 21	9 19	6 31	
S 5	15 28	7 13	1 48	21 4	1 39	18 0	0 15	1 14	1 10	21 15	0 8	14 12	1 6	21 20	0 7	3 20	1 18	1 42	16 35	15 57	16 6	14 19	9 20	6 32	
S 6	15 47	1 46	2 44	21 30	1 45	18 21	0 13	1 29	1 10	21 15	0 9	14 11	1 6	21 19	0 7	3 20	1 18	1 42	16 35	15 58	16 7	14 16	9 20	6 31	
M 7	16 5	3n50	3 34	21 54	1 50	18 42	0 11	1 44	1 10	21 15	0 9	14 10	1 6	21 19	0 7	3 21	1 18	1 43	16 35	16 0	16 8	14 13	9 20	6 30	
T 8	16 22	9 24	4 15	22 18	1 55	19 3	0 8	1 59	1 10	21 15	0 9	14 9	1 6	21 19	0 7	3 21	1 18	1 43	16 35	16 2	16 9	14 10	9 20	6 30	
W 9	16 40	14 43	4 44	22 40	2 0	19 23	0 6	2 14	1 10	21 15	0 9	14 8	1 6	21 18	0 7	3 22	1 18	1 43	16 35	16 6	16 10	14 7	9 21	6 29	
T 10	16 57	19 29	4 59	23 1	2 4	19 42	0 3	2 29	1 10	21 15	0 9	14 7	1 7	21 18	0 7	3 22	1 18	1 43	16 34	16 10	16 11	14 4	9 21	6 29	
F 11	17 14	23 24	4 57	23 21	2 9	20 1	0 1	2 44	1 9	21 15	0 9	14 6	1 7	21 17	0 7	3 22	1 18	1 44	16 34	16 14	16 12	14 1	9 21	6 28	
S 12	17 31	26 4	4 39	23 40	2 13	20 19	0s 1	2 59	1 9	21 15	0 9	14 6	1 7	21 17	0 7	3 22	1 18	1 44	16 34	16 17	16 13	13 58	9 21	6 28	
S 13	17 47	27 12	4 4	23 58	2 16	20 37	0 4	3 14	1 9	21 16	0 10	14 5	1 7	21 17	0 7	3 23	1 18	1 44	16 34	16 20	16 14	13 55	9 21	6 27	
M14	18 3	26 37	3 15	24 14	2 20	20 54	0 6	3 28	1 9	21 16	0 10	14 4	1 8	21 16	0 7	3 23	1 18	1 44	16 34	16 22	16 15	13 52	9 21	6 27	
T 15	18 19	24 20	2 13	24 29	2 23	21 11	0 9	3 43	1 9	21 16	0 10	14 4	1 8	21 16	0 7	3 23	1 18	1 45	16 34	16 24	16 16	13 49	9 22	6 27	
W16	18 34	20 32	1 3	24 43	2 25	21 27	0 11	3 58	1 9	21 16	0 10	14 3	1 8	21 15	0 7	3 23	1 18	1 45	16 34	16 24	16 17	13 46	9 22	6 26	
T 17	18 49	15 34	0s12	24 56	2 28	21 42	0 14	4 13	1 9	21 16	0 10	14 2	1 8	21 15	0 7	3 24	1 18	1 45	16 34	16 24	16 17	13 43	9 22	6 26	
F 18	19 4	9 46	1 25	25 7	2 29	21 57	0 16	4 28	1 9	21 17	0 10	14 2	1 8	21 15	0 7	3 24	1 18	1 45	16 34	16 24	16 18	13 40	9 22	6 25	
S 19	19 19	3 30	2 33	25 17	2 31	22 11	0 19	4 42	1 8	21 17	0 11	14 1	1 9	21 14	0 7	3 24	1 18	1 46	16 34	16 25	16 19	13 37	9 22	6 25	
S 20	19 33	2s54	3 32	25 25	2 32	22 24	0 21	4 57	1 8	21 18	0 11	14 1	1 9	21 14	0 7	3 24	1 18	1 46	16 33	16 26	16 20	13 34	9 22	6 24	
M21	19 46	9 8	4 17	25 32	2 32	22 37	0 24	5 12	1 8	21 18	0 11	14 0	1 9	21 13	0 7	3 25	1 18	1 46	16 33	16 27	16 21	13 31	9 22	6 24	
T 22	20 0	14 52	4 48	25 38	2 32	22 49	0 26	5 26	1 8	21 19	0 11	14 0	1 9	21 13	0 7	3 25	1 18	1 46	16 33	16 30	16 22	13 28	9 22	6 23	
W23	20 13	19 48	5 1	25 42	2 31	23 1	0 28	5 41	1 8	21 19	0 11	14 0	1 9	21 12	0 7	3 25	1 18	1 46	16 33	16 33	16 23	13 25	9 22	6 23	
T 24	20 25	23 37	4 57	25 44	2 29	23 12	0 31	5 55	1 8	21 20	0 11	13 59	1 10	21 12	0 7	3 25	1 18	1 46	16 33	16 37	16 24	13 22	9 21	6 23	
F 25	20 37	26 7	4 37	25 46	2 27	23 22	0 33	6 10	1 7	21 20	0 12	13 59	1 10	21 12	0 7	3 25	1 18	1 47	16 33	16 41	16 25	13 19	9 21	6 22	
S 26	20 49	27 8	4 3	25 45	2 24	23 31	0 36	6 24	1 7	21 21	0 12	13 59	1 10	21 11	0 7	3 25	1 18	1 47	16 32	16 44	16 26	13 16	9 21	6 22	
S 27	21 1	26 42	3 17	25 43	2 20	23 40	0 38	6 39	1 7	21 21	0 12	13 58	1 10	21 11	0 6	3 25	1 18	1 47	16 32	16 47	16 27	13 13	9 21	6 21	
M28	21 12	24 56	2 23	25 40	2 15	23 48	0 40	6 53	1 7	21 22	0 12	13 58	1 10	21 10	0 6	3 25	1 18	1 47	16 32	16 48	16 28	13 10	9 21	6 21	
T 29	21 22	22 2	1 23	25 35	2 9	23 55	0 43	7 7	1 7	21 23	0 12	13 58	1 11	21 10	0 6	3 25	1 18	1 47	16 32	16 49	16 29	13 7	9 21	6 20	
W30	21s33	18s13	0s21	25s29	2s 2	24s 2	0s45	7s21	1n 7	21n24	0n12	13n58	1n11	21n 9	0s 6	3s26	1s18	1s47	16s32	16s50	16s30	13s 4	9s21	6n20	

Julian Day Number = 2400349.5, Delta T = 9.02 sec
Ecliptic obliquity = 23°27'34", Nutation = 0°00'11", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°46'59", Lahiri = 21°53'59"

ASTRODIENST EPHEMERIS for the year 1859

geocentric

DECEMBER 1859

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 37 18	8♂18'29	21♂18	28♂58	24♂24	22♂7	24♂R42	26♂2	5♂R36	24♂R22	7♂R 0	13♂21	14♂27	23♂17	18♂16	T 1
F 2	4 41 14	9♂19'21	3♂5	29♂30	25♂39	22♂44	24♂38	26♂3	5♂II33	24♂R22	6♂59	13♂21	14♂24	23♂24	18♂19	F 2
S 3	4 45 11	10♂20'14	14♂56	29♂54	26♂54	23♂22	24♂34	26♂3	5♂31	24♂22	6♂58	13♂R21	14♂21	23♂30	18♂21	S 3
S 4	4 49 7	11♂21'07	26♂56	0♂39	28♂9	23♂59	24♂30	26♂4	5♂28	24♂22	6♂57	13♂20	14♂18	23♂37	18♂23	S 4
M 5	4 53 4	12♂22'02	9♂11	0♂R15	29♂24	24♂37	24♂26	26♂4	5♂26	24♂22	6♂57	13♂16	14♂15	23♂44	18♂25	M 5
T 6	4 57 1	13♂22'57	21♂44	0♂10	0♂39	25♂14	24♂22	26♂4	5♂23	24♂D22	6♂56	13♂10	14♂12	23♂50	18♂28	T 6
W 7	5 0 57	14♂23'53	4♂39	29♂55	1♂55	25♂52	24♂17	26♂R 4	5♂21	24♂22	6♂55	13♂2	14♂8	23♂57	18♂30	W 7
T 8	5 4 54	15♂24'50	17♂58	29♂28	3♂10	26♂29	24♂12	26♂4	5♂18	24♂22	6♂54	12♂52	14♂5	24♂4	18♂33	T 8
F 9	5 8 50	16♂25'47	1♂39	28♂50	4♂25	27♂7	24♂7	26♂4	5♂16	24♂22	6♂53	12♂42	14♂2	24♂10	18♂35	F 9
S 10	5 12 47	17♂26'46	15♂41	28♂1	5♂40	27♂44	24♂2	26♂4	5♂13	24♂22	6♂52	12♂33	13♂59	24♂17	18♂38	S 10
S 11	5 16 43	18♂27'45	29♂58	27♂2	6♂55	28♂22	23♂57	26♂4	5♂11	24♂22	6♂52	12♂25	13♂56	24♂24	18♂40	S 11
M12	5 20 40	19♂28'45	14♂25	25♂53	8♂10	28♂59	23♂51	26♂3	5♂9	24♂22	6♂51	12♂19	13♂53	24♂30	18♂43	M12
T 13	5 24 36	20♂29'46	28♂55	24♂37	9♂25	29♂37	23♂46	26♂3	5♂6	24♂23	6♂50	12♂16	13♂49	24♂37	18♂46	T 13
W14	5 28 33	21♂30'48	13♂24	23♂16	10♂40	0♂14	23♂40	26♂2	5♂4	24♂23	6♂49	12♂D16	13♂46	24♂43	18♂49	W14
T 15	5 32 30	22♂31'51	27♂46	21♂53	11♂55	0♂51	23♂34	26♂1	5♂1	24♂23	6♂48	12♂16	13♂43	24♂50	18♂52	T 15
F 16	5 36 26	23♂32'55	11♂59	20♂31	13♂10	1♂29	23♂28	26♂0	4♂59	24♂23	6♂48	12♂18	13♂40	24♂57	18♂54	F 16
S 17	5 40 23	24♂33'59	26♂2	19♂12	14♂25	2♂6	23♂22	25♂59	4♂57	24♂24	6♂47	12♂R18	13♂37	25♂3	18♂57	S 17
S 18	5 44 19	25♂35'05	9♂54	17♂59	15♂40	2♂43	23♂16	25♂58	4♂54	24♂24	6♂46	12♂17	13♂33	25♂10	19♂0	S 18
M19	5 48 16	26♂36'11	23♂35	16♂54	16♂55	3♂21	23♂9	25♂57	4♂52	24♂25	6♂46	12♂14	13♂30	25♂17	19♂3	M19
T 20	5 52 12	27♂37'19	7♂14	15♂58	18♂10	3♂58	23♂2	25♂55	4♂50	24♂25	6♂45	12♂9	13♂27	25♂23	19♂6	T 20
W21	5 56 9	28♂38'27	20♂21	15♂12	19♂25	4♂35	22♂56	25♂54	4♂47	24♂25	6♂44	12♂2	13♂24	25♂30	19♂10	W21
T 22	6 0 5	29♂39'35	3♂25	14♂37	20♂40	5♂13	22♂49	25♂52	4♂45	24♂26	6♂44	11♂54	13♂21	25♂37	19♂13	T 22
F 23	6 4 2	0♂34'045	16♂17	14♂13	21♂55	5♂50	22♂42	25♂51	4♂43	24♂27	6♂43	11♂46	13♂18	25♂43	19♂16	F 23
S 24	6 7 59	1♂41'54	28♂56	14♂0	23♂10	6♂27	22♂35	25♂49	4♂41	24♂27	6♂42	11♂39	13♂14	25♂50	19♂19	S 24
S 25	6 11 55	2♂43'04	11♂31	13♂D56	24♂25	7♂5	22♂28	25♂47	4♂39	24♂28	6♂42	11♂34	13♂11	25♂57	19♂23	S 25
M26	6 15 52	3♂44'15	23♂34	14♂2	25♂40	7♂42	22♂20	25♂45	4♂36	24♂28	6♂41	11♂30	13♂8	26♂3	19♂26	M26
T 27	6 19 48	4♂45'25	5♂35	14♂17	26♂55	8♂19	22♂13	25♂43	4♂34	24♂29	6♂41	11♂28	13♂5	26♂10	19♂29	T 27
W28	6 23 45	5♂46'36	17♂29	14♂39	28♂9	8♂56	22♂6	25♂41	4♂32	24♂30	6♂40	11♂D28	13♂2	26♂17	19♂33	W28
T 29	6 27 41	6♂47'46	29♂17	15♂9	29♂24	9♂33	21♂58	25♂39	4♂30	24♂31	6♂40	11♂29	12♂59	26♂23	19♂36	T 29
F 30	6 31 38	7♂48'57	11♂3	15♂45	0♂39	10♂11	21♂50	25♂36	4♂28	24♂32	6♂39	11♂31	12♂55	26♂30	19♂40	F 30
S 31	6 35 35	8♂50'07	22♂53	16♂27	1♂54	10♂148	21♂543	25♂34	4♂II26	24♂R32	6♂39	11♂33	12♂52	26♂37	19♂43	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	21s43	13s45	0n42	25s21	1s54	24s8	0s47	7s36	1n6	21n24	0n12	13n58	1n11	21n9	0s6	3s26
F 2	21s52	8s46	1s44	25s12	1s44	24s13	0s49	7s50	1s6	21s25	0s13	13s58	1s11	21s9	0s6	3s26
S 3	22s1	3s28	2s41	25s1	1s34	24s17	0s52	8s4	1s6	21s26	0s13	13s58	1s12	21s8	0s6	3s26
S 4	22s10	2n1	3s31	24s49	1s21	24s21	0s54	8s18	1s6	21s27	0s13	13s58	1s12	21s8	0s6	3s26
M 5	22s18	7s31	4s13	24s35	1s8	24s23	0s56	8s32	1s6	21s28	0s13	13s58	1s12	21s7	0s6	3s26
T 6	22s25	12s52	4s44	24s21	0s53	24s25	0s58	8s46	1s5	21s29	0s13	13s58	1s12	21s7	0s6	3s26
W 7	22s33	17s49	5s2	24s4	0s37	24s27	1s0	8s59	1s5	21s30	0s13	13s58	1s12	21s6	0s6	3s26
T 8	22s40	22s3	5s4	23s47	0s19	24s27	1s2	9s13	1s5	21s31	0s14	13s59	1s13	21s6	0s6	3s26
F 9	22s46	25s13	4s49	23s28	0s1	24s27	1s4	9s27	1s5	21s32	0s14	13s59	1s13	21s6	0s6	3s25
S 10	22s52	26s56	4s16	23s8	0n19	24s26	1s6	9s40	1s5	21s33	0s14	13s59	1s13	21s5	0s6	3s25
S 11	22s57	26s55	3s27	22s46	0s39	24s25	1s8	9s54	1s4	21s34	0s14	13s59	1s13	21s5	0s6	3s25
M12	23s3	25s4	2s24	22s24	0s59	24s22	1s10	10s7	1s4	21s35	0s14	14s0	1s14	21s4	0s6	3s25
T 13	23s7	21s33	1s11	22s2	1s19	24s19	1s12	10s21	1s4	21s36	0s14	14s0	1s14	21s4	0s6	3s25
W14	23s11	16s43	0s6	21s39	1s38	24s15	1s13	10s34	1s4	21s37	0s15	14s1	1s14	21s3	0s6	3s25
T 15	23s15	10s58	1s23	21s17	1s56	24s10	1s15	10s48	1s3	21s39	0s15	14s1	1s14	21s3	0s6	3s25
F 16	23s18	4s42	2s33	20s55	2s12	24s5	1s17	11s1	1s3	21s40	0s15	14s2	1s14	21s3	0s6	3s25
S 17	23s21	1s42	3s34	20s36	2s26	23s59	1s19	11s14	1s3	21s41	0s15	14s2	1s15	21s2	0s6	3s24
S 18	23s23	7s55	4s21	20s18	2s38	23s52	1s20	11s27	1s3	21s42	0s15	14s3	1s15	21s2	0s6	3s24
M19	23s25	13s41	4s53	20s3	2s47	23s44	1s22	11s40	1s2	21s43	0s15	14s3	1s15	21s1	0s6	3s24
T 20	23s26	18s43	5s8	19s50	2s54	23s36	1s23	11s53	1s2	21s45	0s16	14s4	1s15	21s1	0s6	3s24
W21	23s27	22s45	5s6	19s41	2s58	23s27	1s25	12s6	1s2	21s46	0s16	14s5	1s15	21s1	0s6	3s24
T 22	23s28	25s33	4s47	19s35	3s1	23s17	1s26	12s18	1s1	21s47	0s16	14s5	1s16	21s0	0s6	3s23
F 23	23s27	26s59	4s15	19s31	3s1	23s7	1s27	12s31	1s1	21s49	0s16	14s6	1s16	21s0	0s6	3s23
S 24	23s27	26s58	3s31	19s31	3s0	22s55	1s28	12s44	1s1	21s50	0s16	14s7	1s16	20s59	0s6	3s23
S 25	23s26	25s34	2s37	19s33	2s58	22s43	1s30	12s56	1s0	21s51	0s16	14s8	1s16	20s59	0s6	3s23
M26	23s24	22s59	1s36	19s38	2s54	22s31	1s31	13s8	1s0	21s53	0s17	14s9	1s16	20s59	0s6	3s22
T 27	23s22	19s24	0s32	19s44	2s49	22s18	1s32	13s21	1s0	21s54	0s17	14s10	1s17	20s58	0s6	3s22
W28	23s20	15s5	0n33	19s53	2s43	22s4	1s33	13s33	1s0	21s55	0s17	14s11	1s17	20s58	0s6	3s22
T 29	23s17	10s14	1s36	20s3	2s36	21s49	1s34	13s45	0s59	21s57	0s17	14s12	1s17	20s58	0s6	3s21
F 30	23s14	5s2	2s35	20s14	2s29	21s34	1s35	13s57	0s59	21s58	0s17	14s13	1s17	20s57	0s6	3s21
S 31	23s10	0n21	3n28	20s26	2n21	21s18	1s35	14s9	0n59	21n59	0n17	14n14	1n18	20n57	0s6	3s21

Julian Day Number = 2400379.5, Delta T = 9.01 sec
 Ecliptic obliquity = 23°27'33", Nutation = 0°00'11", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°47'03", Lahiri = 21°54'03"