



Astrodienst Ephemeris Tables for the year 1829

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 1829

geocentric

JANUARY 1829

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	6 41 31	10°23'29	9°41	2°34	6°29	22°19	4°39	2°27	1°7	17°48	5°28	12°R33	12°22	25°234	28°R33	T 1
F 2	6 45 27	11°24'40	22°53	4° 8	7°42	23° 2	4°51	2°23	1°10	17°50	5°28	12°28	12°18	25°41	28°Y32	F 2
S 3	6 49 24	12°25'52	6°34	5°43	8°56	23°44	5° 3	2°18	1°13	17°53	5°29	12°21	12°15	25°47	28°32	S 3
S 4	6 53 20	13°27'03	20°43	7°17	10°10	24°27	5°15	2°14	1°17	17°55	5°29	12°11	12°12	25°54	28°32	S 4
M 5	6 57 17	14°28'14	5°31	8°53	11°24	25° 9	5°27	2° 9	1°20	17°57	5°29	11°59	12° 9	26° 1	28°31	M 5
T 6	7 1 14	15°29'26	20° 9	10°28	12°38	25°51	5°38	2° 4	1°24	17°59	5°30	11°47	12° 6	26° 7	28°31	T 6
W 7	7 5 10	16°30'37	5°10	12° 4	13°52	26°34	5°50	2° 0	1°27	18° 2	5°30	11°36	12° 2	26°14	28°31	W 7
T 8	7 9 7	17°31'47	20°10	13°41	15° 6	27°16	6° 2	1°55	1°31	18° 4	5°31	11°26	11°59	26°21	28°D31	T 8
F 9	7 13 3	18°32'58	5°0	15°17	16°20	27°59	6°13	1°50	1°34	18° 6	5°31	11°20	11°56	26°27	28°31	F 9
S 10	7 17 0	19°34'07	19°35	16°55	17°34	28°41	6°25	1°46	1°37	18° 9	5°32	11°16	11°53	26°34	28°31	S 10
S 11	7 20 56	20°35'16	3°48	18°33	18°48	29°23	6°36	1°41	1°41	18°11	5°32	11°15	11°50	26°41	28°31	S 11
M12	7 24 53	21°36'24	17°41	20°11	20° 2	0°Y 6	6°47	1°36	1°44	18°13	5°33	11°15	11°47	26°47	28°31	M12
T 13	7 28 49	22°37'32	1°14	21°50	21°16	0°48	6°59	1°31	1°48	18°15	5°33	11°14	11°43	26°54	28°32	T 13
W14	7 32 46	23°38'38	14°28	23°29	22°30	1°31	7°10	1°26	1°51	18°18	5°34	11°13	11°40	27° 1	28°32	W14
T 15	7 36 43	24°39'44	27°26	25° 9	23°45	2°13	7°21	1°22	1°55	18°20	5°34	11° 9	11°37	27° 8	28°32	T 15
F 16	7 40 39	25°40'49	10°12	26°49	24°59	2°55	7°32	1°17	1°58	18°22	5°35	11° 2	11°34	27°14	28°33	F 16
S 17	7 44 36	26°41'54	22°46	28°30	26°13	3°38	7°43	1°12	2° 2	18°24	5°36	10°52	11°31	27°21	28°33	S 17
S 18	7 48 32	27°42'57	5°10	0°11	27°27	4°20	7°54	1° 7	2° 5	18°27	5°36	10°40	11°28	27°28	28°34	S 18
M19	7 52 29	28°44'00	17°25	1°53	28°41	5° 2	8° 4	1° 2	2° 9	18°29	5°37	10°26	11°24	27°34	28°35	M19
T 20	7 56 25	29°45'02	29°32	3°35	29°56	5°45	8°15	0°57	2°12	18°31	5°38	10°13	11°21	27°41	28°35	T 20
W21	8 0 22	0°46'04	11°32	5°18	1°10	6°27	8°25	0°52	2°16	18°33	5°38	10° 0	11°18	27°48	28°36	W21
T 22	8 4 18	1°47'04	23°26	7° 2	2°24	7° 9	8°36	0°47	2°19	18°36	5°39	9°49	11°15	27°54	28°37	T 22
F 23	8 8 15	2°48'04	5°16	8°45	3°39	7°51	8°46	0°42	2°23	18°38	5°40	9°41	11°12	28° 1	28°38	F 23
S 24	8 12 12	3°49'03	17° 3	10°30	4°53	8°34	8°56	0°37	2°26	18°40	5°41	9°36	11° 8	28° 8	28°38	S 24
S 25	8 16 8	4°50'01	28°53	12°14	6° 7	9°16	9° 7	0°32	2°30	18°42	5°41	9°33	11° 5	28°14	28°39	S 25
M26	8 20 5	5°50'59	10°47	13°59	7°22	9°58	9°17	0°27	2°34	18°45	5°42	9°D32	11° 2	28°21	28°40	M26
T 27	8 24 1	6°51'56	22°52	15°44	8°36	10°40	9°27	0°22	2°37	18°47	5°43	9°33	10°59	28°28	28°42	T 27
W28	8 27 58	7°52'53	5°12	17°30	9°50	11°23	9°37	0°18	2°41	18°49	5°44	9°R33	10°56	28°34	28°43	W28
T 29	8 31 54	8°53'48	17°53	19°15	11° 5	12° 5	9°46	0°13	2°44	18°51	5°45	9°33	10°53	28°41	28°44	T 29
F 30	8 35 51	9°54'43	0°59	21° 0	12°19	12°47	9°56	0° 8	2°48	18°53	5°46	9°31	10°49	28°48	28°45	F 30
S 31	8 39 47	10°55'37	14°34	22°44	13°33	13°Y29	10°5	0°13	2°51	18°55	5°47	9°26	10°46	28°54	28°Y47	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	lat	lat
T 1	23s 3	12s32	2n18	24s34	1s 8	19s49	1n37	3s31	0s31	20s21	0n44	20n 0	0n23	20s28	0s33	21s38	0n39	13s14	16s49	4s58	4s53	9n28	10n34	0s26	0s26	0s26
F 2	22 58	15 21	3 16	24 37	1 14	20 3	1 35	3 13	0 29	20 24	0 44	20 1	0 23	20 27	0 33	21 38	0 39	13 14	16 48	4 56	4 52	9 27	10 34	0 26	0 26	0 26
S 3	22 53	17 24	4 4	24 39	1 19	20 17	1 33	2 55	0 28	20 26	0 44	20 2	0 23	20 27	0 33	21 38	0 39	13 14	16 48	4 53	4 51	9 25	10 34	0 26	0 26	0 26
S 4	22 47	18 29	4 40	24 39	1 24	20 30	1 31	2 37	0 27	20 28	0 44	20 3	0 23	20 26	0 33	21 37	0 39	13 13	16 48	4 49	4 50	9 23	10 33	0 26	0 26	0 26
M 5	22 40	18 23	4 58	24 38	1 29	20 42	1 28	2 19	0 26	20 30	0 44	20 5	0 23	20 25	0 33	21 37	0 39	13 13	16 47	4 45	4 48	9 22	10 33	0 26	0 26	0 26
T 6	22 34	17 3	4 57	24 36	1 33	20 54	1 26	2 1	0 24	20 32	0 44	20 6	0 24	20 24	0 33	21 37	0 39	13 12	16 47	4 40	4 47	9 20	10 33	0 26	0 26	0 26
W 7	22 26	14 32	4 36	24 32	1 38	21 6	1 24	1 43	0 23	20 34	0 44	20 7	0 24	20 24	0 33	21 36	0 39	13 12	16 47	4 35	4 46	9 18	10 33	0 26	0 26	0 26
T 8	22 19	11 3	3 55	24 26	1 42	21 17	1 21	1 25	0 22	20 36	0 44	20 8	0 24	20 23	0 33	21 36	0 39	13 11	16 46	4 32	4 45	9 17	10 33	0 26	0 26	0 26
F 9	22 10	6 54	2 59	24 20	1 45	21 27	1 19	1 7	0 21	20 38	0 45	20 9	0 24	20 22	0 33	21 36	0 39	13 11	16 46	4 29	4 43	9 15	10 33	0 26	0 26	0 26
S 10	22 2	2 25	1 52	24 11	1 49	21 37	1 16	0 49	0 20	20 40	0 45	20 10	0 24	20 21	0 33	21 36	0 39	13 10	16 46	4 28	4 42	9 13	10 33	0 26	0 26	0 26
S 11	21 53	2n 7	0 39	24 1	1 52	21 46	1 14	0 32	0 18	20 42	0 45	20 12	0 24	20 21	0 33	21 35	0 39	13 10	16 45	4 27	4 41	9 12	10 33	0 26	0 26	0 26
M12	21 43	6 25	0s34	23 50	1 55	21 54	1 11	0 14	0 17	20 44	0 45	20 13	0 24	20 20	0 33	21 35	0 39	13 9	16 45	4 27	4 40	9 10	10 33	0 26	0 26	0 26
T 13	21 34	10 17	1 44	23 37	1 58	22 2	1 9	0n 4	0 16	20 46	0 45	20 14	0 24	20 19	0 33	21 35	0 39	13 9	16 45	4 27	4 38	9 8	10 33	0 26	0 26	0 26
W14	21 23	13 33	2 46	23 23	2 0	22 9	1 6	0 22	0 15	20 47	0 45	20 15	0 24	20 18	0 33	21 34	0 38	13 8	16 44	4 26	4 37	9 7	10 33	0 26	0 26	0 26
T 15	21 13	16 3	3 39	23 7	2 2	22 15	1 3	0 40	0 14	20 49	0 45	20 16	0 25	20 18	0 33	21 34	0 38	13 8	16 44	4 25	4 36	9 5	10 33	0 26	0 26	0 26
F 16	21 1	17 43	4 19	22 49	2 3	22 21	1 1	0 58	0 13	20 51	0 45	20 18	0 25	20 17	0 33	21 34	0 38	13 7	16 44	4 22	4 35	9 3	10 33	0 27	0 27	0 27
S 17	20 50	18 30	4 46	22 30	2 4	22 26	0 58	1 16	0 12	20 53	0 45	20 19	0 25	20 16	0 33	21 33	0 38	13 6	16 43	4 18	4 33	9 2	10 33	0 27	0 27	0 27
S 18	20 38	18 22	5 0	22 10	2 5	22 31	0 55	1 34	0 11	20 55	0 45	20 20	0 25	20 15	0 33	21 33	0 38	13 6	16 43	4 14	4 32	9 0	10 33	0 27	0 27	0 27
M19	20 26	17 23	4 59	21 48	2 5	22 35	0 52	1 51	0 10	20 56	0 45	20 21	0 25	20 14	0 33	21 33	0 38	13 5	16 43	4 8	4 31	8 58	10 34	0 27	0 27	0 27
T 20	20 13	15 38	4 44	21 24	2 5	22 38	0 50	2 9	0 8	20 58	0 45	20 22	0 25	20 14	0 33	21 33	0 38	13 5	16 42	4 3	4 30	8 57	10 34	0 27	0 27	0 27
W21	20 0	13 13	4 17	20 58	2 5	22 41	0 47	2 27	0 7	21 0	0 45	20 23	0 25	20 13	0 33	21 32	0 38	13 4	16 42	3 58	4 28	8 55	10 34	0 27	0 27	0 27
T 22	19 47	10 16	3 39	20 31	2 4	22 42	0 44	2 45	0 6	21 1	0 45	20 25	0 25	20 12	0 33	21 32	0 38	13 4	16 42	3 54	4 27	8 53	10 34	0 27	0 27	0 27
F 23	19 33	6 55	2 52	20 3	2 2	22 43	0 41	3 2	0 5	21 3	0 45	20 26	0 25	20 11	0 33	21 32	0 38	13 3	16 41	3 50	4 26	8 52	10 35	0 27	0 27	0 27
S 24	19 19	3 19	1 57	19 33	2 0	22 44	0 38	3 20	0 4	21 4	0 45	20 27	0 26	20 10	0 33	21 31	0 38	13 2	16 41	3 48	4 25	8 50	10 35	0 27	0 27	0 27
S 25	19 4	0s25	0 57	19 1	1 57	22 44	0 35	3 37	0 3	21 6	0 45	20 28	0 26	20 10	0 33	21 31	0 38	13 2	16 41	3 47	4 23	8 48	10 35	0 27	0 27	0 27
M26	18 49	4 10	0n 7	18 28	1 54	22 43	0 33	3 55	0 2	21 7	0 45	20 29	0 26	20 9	0 33	21 31	0 38	13 1	16 40	3 47	4 22	8 47	10 35	0 27	0 27	0 27
T 27	18 34	7 48	1 11	17 53	1 51	22 41	0 30	4 12	0 1	21 9	0 45	20 30	0 26	20 8	0 33	21 30	0 38	13 1	16 40	3 47	4 21	8 45	10 36	0 27	0 27	0 27
W28	18 19	11 11	2 13	17 17	1 46	22 39	0 27	4 30	0 0	21 10	0 45	20 32	0 26	20 7	0 33	21 30	0 38	13 0	16 40	3 47	4 20	8 43	10 36	0 27	0 27	0 27
T 29	18 3	14 8	3 10	16 40	1 41	22 36	0 24	4 47	0n 1	21 12	0 45	20 33	0 26	20 6	0 33	21 30	0 38	12 59	16 39	3 47	4 18	8 42	10 36	0 27	0 27	0 27
F 30	17 47	16 28	4 0	16 1	1 36	22 32	0 21	5 5	0 2	21 13	0 45	20 34	0 26	20 6	0 33	21 30	0 38	12 59	16 39	3 46	4 17	8 40	10 37	0 27	0 27	0 27
S 31	17s30	17s58	4n38	15s21	1s29	22s28	0n18	5n22	0n 3	21s14	0n45	20n35	0n26	20s 5	0s33	21s29	0n38	12s58	16s39	3s45	4s16	8n38	10n37	0s27	0s27	0s27

ASTRODIENST EPHEMERIS for the year 1829

geocentric

MARCH 1829

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 34 8	10°11'27	7°31'15	9°R28	19°33'33	3°R41	13°47'47	28°R 6	4°27'27	19°51'51	6°V20	7°R50	9°14'14	2°m 8	29°V47	S 1
M 2	10 38 4	11°11'36	21°36	8°R26	20°48	4°23	13°52	28°R 3	4°30	19°52	6°21	7°14'47	9°11	2°15	29°50	M 2
T 3	10 42 1	12°11'44	6°20	7°24	22° 2	5° 4	13°58	28° 0	4°33	19°54	6°23	7°44	9° 8	2°21	29°53	T 3
W 4	10 45 57	13°11'50	21°23	6°25	23°16	5°45	14° 3	27°57	4°36	19°56	6°24	7°40	9° 5	2°28	29°56	W 4
T 5	10 49 54	14°11'54	6°R36	5°29	24°31	6°27	14° 8	27°55	4°39	19°57	6°25	7°37	9° 1	2°35	29°59	T 5
F 6	10 53 50	15°11'56	21°49	4°37	25°45	7° 8	14°13	27°52	4°42	19°59	6°27	7°35	8°58	2°41	0°R 2	F 6
S 7	10 57 47	16°11'56	6°V52	3°50	27° 0	7°49	14°17	27°50	4°44	20° 0	6°28	7°D35	8°55	2°48	0° 5	S 7
S 8	11 1 43	17°11'54	21°36	3°10	28°14	8°31	14°22	27°47	4°47	20° 1	6°29	7°35	8°52	2°55	0° 8	S 8
M 9	11 5 40	18°11'50	5°R56	2°35	29°29	9°12	14°26	27°45	4°50	20° 3	6°31	7°36	8°49	3° 1	0°11	M 9
T 10	11 9 36	19°11'44	19°50	2° 7	0°R43	9°53	14°30	27°43	4°53	20° 4	6°32	7°38	8°45	3° 8	0°14	T 10
W11	11 13 33	20°11'36	3°R16	1°45	1°58	10°34	14°34	27°41	4°56	20° 6	6°34	7°39	8°42	3°15	0°17	W11
T 12	11 17 30	21°11'26	16°18	1°30	3°12	11°15	14°38	27°39	4°58	20° 7	6°35	7°R40	8°39	3°21	0°20	T 12
F 13	11 21 26	22°11'13	28°58	1°21	4°26	11°56	14°42	27°37	5° 1	20° 8	6°37	7°39	8°36	3°28	0°23	F 13
S 14	11 25 23	23°10'58	11°R19	1°D19	5°41	12°38	14°45	27°35	5° 4	20°10	6°38	7°39	8°33	3°35	0°26	S 14
S 15	11 29 19	24°10'41	23°27	1°22	6°55	13°19	14°48	27°34	5° 6	20°11	6°39	7°37	8°30	3°41	0°30	S 15
M16	11 33 16	25°10'21	5°R25	1°31	8°10	14° 0	14°51	27°32	5° 9	20°12	6°41	7°36	8°26	3°48	0°33	M16
T 17	11 37 12	26°10'00	17°18	1°46	9°24	14°41	14°54	27°31	5°11	20°13	6°42	7°34	8°23	3°55	0°36	T 17
W18	11 41 9	27° 9'36	29° 7	2° 6	10°38	15°21	14°57	27°29	5°14	20°14	6°44	7°32	8°20	4° 1	0°40	W18
T 19	11 45 5	28° 9'10	10°R56	2°31	11°53	16° 2	15° 0	27°28	5°16	20°16	6°45	7°31	8°17	4° 8	0°43	T 19
F 20	11 49 2	29° 8'41	22°47	3° 1	13° 7	16°43	15° 2	27°27	5°19	20°17	6°47	7°30	8°14	4°15	0°46	F 20
S 21	11 52 59	0°V 8'11	4°R43	3°35	14°21	17°24	15° 4	27°26	5°21	20°18	6°48	7°D30	8°10	4°21	0°50	S 21
S 22	11 56 55	1° 7'39	16°45	4°13	15°36	18° 5	15° 6	27°25	5°23	20°19	6°50	7°30	8° 7	4°28	0°53	S 22
M23	12 0 52	2° 7'05	28°56	4°55	16°50	18°46	15° 8	27°24	5°26	20°20	6°51	7°30	8° 4	4°35	0°57	M23
T 24	12 4 48	3° 6'28	11°R17	5°41	18° 4	19°26	15°10	27°24	5°28	20°21	6°53	7°31	8° 1	4°41	1° 0	T 24
W25	12 8 45	4° 5'50	23°51	6°30	19°19	20° 7	15°11	27°23	5°30	20°22	6°54	7°31	7°58	4°48	1° 4	W25
T 26	12 12 41	5° 5'11	6°R39	7°23	20°33	20°48	15°12	27°23	5°32	20°23	6°55	7°31	7°55	4°55	1° 7	T 26
F 27	12 16 38	6° 4'29	19°45	8°18	21°47	21°29	15°13	27°22	5°34	20°24	6°57	7°32	7°51	5° 1	1°11	F 27
S 28	12 20 34	7° 3'46	3°R 9	9°17	23° 2	22° 9	15°14	27°22	5°37	20°24	6°58	7°32	7°48	5° 8	1°14	S 28
S 29	12 24 31	8° 3'01	16°55	10°18	24°16	22°50	15°15	27°22	5°39	20°25	7° 0	7°32	7°45	5°15	1°18	S 29
M30	12 28 28	9° 2'14	1°R 1	11°21	25°30	23°30	15°16	27°D22	5°41	20°26	7° 1	7°32	7°42	5°21	1°22	M30
T 31	12 32 24	10°V 1'25	15°R27	12°R28	26°R45	24°R11	15°R16	27°R22	5°R43	20°R27	7°V 3	7°R32	7°R39	5°R28	1°R25	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	7s45	18s 2	5n14	4s36	3n41	15s51	0s55	13n10	0n26	21s43	0n46	21n 2	0n29	19s43	0s34	21s21
M 2	7 22	16 42	5 5	5 3	3 37	15 29	0 57	13 25	0 27	21 43	0 46	21 2	0 29	19 42	0 34	21 21
T 3	6 59	14 15	4 36	5 31	3 32	15 7	0 59	13 40	0 28	21 44	0 46	21 3	0 29	19 41	0 34	21 21
W 4	6 36	10 47	3 48	6 0	3 24	14 44	1 1	13 54	0 28	21 44	0 46	21 3	0 29	19 41	0 34	21 21
T 5	6 13	6 35	2 43	6 29	3 15	14 21	1 3	14 8	0 29	21 45	0 46	21 4	0 29	19 40	0 34	21 20
F 6	5 50	1 56	1 26	6 58	3 4	13 57	1 5	14 23	0 30	21 45	0 46	21 5	0 29	19 39	0 34	21 20
S 7	5 27	2n47	0 4	7 26	2 52	13 34	1 6	14 37	0 30	21 46	0 46	21 5	0 29	19 39	0 34	21 20
S 8	5 4	7 14	1s17	7 53	2 39	13 9	1 8	14 51	0 31	21 46	0 46	21 6	0 29	19 38	0 34	21 20
M 9	4 40	11 9	2 30	8 18	2 26	12 45	1 9	15 4	0 32	21 47	0 47	21 6	0 29	19 37	0 34	21 20
T 10	4 17	14 17	3 33	8 41	2 12	12 20	1 11	15 18	0 32	21 47	0 47	21 7	0 29	19 37	0 34	21 19
W11	3 53	16 33	4 21	9 2	1 57	11 55	1 12	15 32	0 33	21 48	0 47	21 7	0 29	19 36	0 34	21 19
T 12	3 30	17 52	4 55	9 21	1 43	11 29	1 14	15 45	0 34	21 48	0 47	21 8	0 29	19 36	0 34	21 19
F 13	3 6	18 14	5 13	9 38	1 28	11 3	1 15	15 58	0 34	21 48	0 47	21 8	0 29	19 35	0 34	21 19
S 14	2 43	17 44	5 16	9 52	1 13	10 37	1 16	16 12	0 35	21 49	0 47	21 8	0 29	19 34	0 34	21 19
S 15	2 19	16 25	5 5	10 5	0 59	10 11	1 18	16 25	0 35	21 49	0 47	21 9	0 29	19 34	0 34	21 18
M16	1 55	14 24	4 40	10 14	0 45	9 44	1 19	16 38	0 36	21 49	0 47	21 9	0 29	19 33	0 34	21 18
T 17	1 32	11 47	4 4	10 22	0 31	9 17	1 20	16 50	0 37	21 50	0 47	21 9	0 29	19 33	0 34	21 18
W18	1 8	8 43	3 17	10 27	0 18	8 50	1 21	17 3	0 37	21 50	0 47	21 10	0 30	19 32	0 34	21 18
T 19	0 44	5 17	2 22	10 31	0 5	8 22	1 22	17 15	0 38	21 50	0 47	21 10	0 30	19 31	0 34	21 18
F 20	0 20	1 38	1 21	10 32	0s 8	7 55	1 23	17 28	0 38	21 50	0 47	21 10	0 30	19 31	0 34	21 17
S 21	0n 3	2s 7	0 15	10 31	0 20	7 27	1 24	17 40	0 39	21 51	0 47	21 11	0 30	19 30	0 34	21 17
S 22	0 27	5 48	0n51	10 27	0 31	6 59	1 24	17 52	0 39	21 51	0 47	21 11	0 30	19 30	0 34	21 17
M23	0 51	9 17	1 56	10 22	0 43	6 31	1 25	18 4	0 40	21 51	0 47	21 11	0 30	19 29	0 34	21 17
T 24	1 14	12 25	2 57	10 15	0 53	6 2	1 26	18 15	0 41	21 51	0 47	21 11	0 30	19 29	0 35	21 17
W25	1 38	15 2	3 50	10 7	1 3	5 33	1 26	18 27	0 41	21 51	0 47	21 11	0 30	19 28	0 35	21 17
T 26	2 1	16 57	4 33	9 56	1 13	5 5	1 27	18 38	0 42	21 51	0 47	21 11	0 30	19 28	0 35	21 16
F 27	2 25	18 2	5 3	9 44	1 22	4 36	1 27	18 49	0 42	21 51	0 47	21 12	0 30	19 27	0 35	21 16
S 28	2 48	18 8	5 17	9 29	1 30	4 7	1 28	19 0	0 43	21 51	0 47	21 12	0 30	19 27	0 35	21 16
S 29	3 12	17 12	5 14	9 14	1 38	3 38	1 28	19 11	0 43	21 51	0 48	21 12	0 30	19 26	0 35	21 16
M30	3 35	15 12	4 52	8 56	1 45	3 8	1 28	19 22	0 44	21 51	0 48	21 12	0 30	19 26	0 35	21 16
T 31	3n58	12s13	4n11	8s37	1s52	2s39	1s28	19n33	0n44	21s51	0n48	21n12	0n30	19s25	0s35	21s16

Julian Day Number = 2389147.5, Delta T = 11.23 sec
 Ecliptic obliquity = 23°27'33", Nutation = 0°00'04", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°21'17", Lahiri = 21°28'18"

ASTRODIENST EPHEMERIS for the year 1829

geocentric

APRIL 1829

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	12 36 21	11°03'5	0°9	13°36	27°59	24°51	15°R16	27°22	5°45	20°28	7°4	7°32	7°32	5°35	1°29	W 1
T 2	12 40 17	11°59'42	15° 2	14°47	29°13	25°32	15°16	27°23	5°47	20°28	7° 6	7°33	7°32	5°41	1°33	T 2
F 3	12 44 14	12°58'48	29°59	16° 0	0°Y27	26°12	15°16	27°23	5°48	20°29	7° 7	7°R33	7°29	5°48	1°36	F 3
S 4	12 48 10	13°57'52	14°Y53	17°16	1°42	26°53	15°15	27°24	5°50	20°30	7° 9	7°33	7°26	5°55	1°40	S 4
S 5	12 52 7	14°56'53	29°35	18°33	2°56	27°33	15°15	27°24	5°52	20°30	7°10	7°32	7°23	6° 1	1°44	S 5
M 6	12 56 3	15°55'53	13°58	19°52	4°10	28°14	15°14	27°25	5°54	20°31	7°12	7°32	7°20	6° 8	1°48	M 6
T 7	13 0 0	16°54'51	27°57	21°13	5°24	28°54	15°13	27°26	5°55	20°31	7°13	7°31	7°16	6°15	1°51	T 7
W 8	13 3 56	17°53'46	11°31	22°36	6°38	29°34	15°12	27°27	5°57	20°32	7°14	7°29	7°13	6°21	1°55	W 8
T 9	13 7 53	18°52'39	24°40	24° 0	7°53	0°115	15°11	27°28	5°59	20°32	7°16	7°28	7°10	6°28	1°59	T 9
F 10	13 11 50	19°51'30	7°25	25°27	9° 7	0°55	15° 9	27°29	6° 0	20°33	7°17	7°27	7° 7	6°35	2° 3	F 10
S 11	13 15 46	20°50'18	19°50	26°55	10°21	1°35	15° 7	27°30	6° 2	20°33	7°19	7°D27	7° 4	6°41	2° 7	S 11
S 12	13 19 43	21°49'05	1°59	28°25	11°35	2°15	15° 5	27°32	6° 3	20°33	7°20	7°27	7° 1	6°48	2°10	S 12
M13	13 23 39	22°47'49	13°56	29°57	12°49	2°55	15° 3	27°33	6° 4	20°34	7°22	7°28	6°57	6°55	2°14	M13
T 14	13 27 36	23°46'30	25°47	1°Y30	14° 3	3°36	15° 1	27°35	6° 6	20°34	7°23	7°29	6°54	7° 1	2°18	T 14
W15	13 31 32	24°45'10	7°35	3° 5	15°18	4°16	14°59	27°37	6° 7	20°34	7°24	7°31	6°51	7° 8	2°22	W15
T 16	13 35 29	25°43'47	19°25	4°41	16°32	4°56	14°56	27°39	6° 8	20°35	7°26	7°32	6°48	7°15	2°26	T 16
F 17	13 39 25	26°42'22	1°21	6°20	17°46	5°36	14°53	27°41	6°10	20°35	7°27	7°33	6°45	7°21	2°30	F 17
S 18	13 43 22	27°40'56	13°24	7°59	19° 0	6°16	14°50	27°43	6°11	20°35	7°29	7°R33	6°42	7°28	2°33	S 18
S 19	13 47 19	28°39'27	25°39	9°41	20°14	6°56	14°47	27°45	6°12	20°35	7°30	7°32	6°38	7°35	2°37	S 19
M20	13 51 15	29°37'56	8°11	11°24	21°28	7°36	14°44	27°47	6°13	20°35	7°31	7°30	6°35	7°41	2°41	M20
T 21	13 55 12	0°36'23	20°54	13° 9	22°42	8°16	14°40	27°49	6°14	20°35	7°33	7°27	6°32	7°48	2°45	T 21
W22	13 59 8	1°34'49	3°37	14°56	23°56	8°56	14°36	27°52	6°15	20°35	7°34	7°23	6°29	7°55	2°49	W22
T 23	14 3 5	2°33'13	16°44	16°44	25°10	9°35	14°33	27°54	6°16	20°R35	7°36	7°19	6°26	8° 1	2°53	T 23
F 24	14 7 1	3°31'36	0°3	18°34	26°24	10°15	14°29	27°57	6°17	20°35	7°37	7°16	6°22	8° 8	2°57	F 24
S 25	14 10 58	4°29'56	13°38	20°26	27°38	10°55	14°24	28° 0	6°18	20°35	7°38	7°13	6°19	8°15	3° 1	S 25
S 26	14 14 54	5°28'16	27°25	22°19	28°52	11°35	14°20	28° 3	6°18	20°35	7°40	7°12	6°16	8°21	3° 4	S 26
M27	14 18 51	6°26'33	11°25	24°14	0°8	12°15	14°16	28° 6	6°19	20°35	7°41	7°D12	6°13	8°28	3° 8	M27
T 28	14 22 48	7°24'50	25°36	26°11	1°20	12°54	14°11	28° 9	6°20	20°35	7°42	7°13	6°10	8°35	3°12	T 28
W29	14 26 44	8°23'04	9°58	28° 9	2°34	13°34	14° 6	28°12	6°20	20°35	7°43	7°14	6° 7	8°41	3°16	W29
T 30	14 30 41	9°21'17	24°27	0°8	3°48	14°114	14° 1	28°15	6°21	20°35	7°45	7°15	6° 3	8°48	3°20	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	4n22	8s25	3n13	8s17	1s59	2s 9	1s29	19n43	0n45	21s51	0n48	21n12	0n30	19s25	0s35	21s16	0n39	12s20	16s30	3s 0	3s 1	6n56	11n31	0s31	
T 2	4 45	4 2	2 2	7 55	2 5	1 40	1 29	19 53	0 45	21 51	0 48	21 12	0 30	19 24	0 35	21 16	0 39	12 20	16 30	3 0	3 0	6 54	11 32	0 31	
F 3	5 8	0n38	0 42	7 31	2 10	1 10	1 29	20 3	0 46	21 51	0 48	21 12	0 30	19 24	0 35	21 15	0 39	12 19	16 30	3 0	2 58	6 52	11 33	0 31	
S 4	5 31	5 15	0s41	7 6	2 15	0 41	1 28	20 13	0 46	21 51	0 48	21 12	0 30	19 23	0 35	21 15	0 39	12 18	16 30	3 0	2 57	6 51	11 35	0 31	
S 5	5 54	9 28	1 59	6 40	2 19	0 11	1 28	20 23	0 46	21 51	0 48	21 12	0 30	19 23	0 35	21 15	0 39	12 18	16 30	3 0	2 56	6 49	11 36	0 31	
M 6	6 16	13 2	3 9	6 12	2 23	0n19	1 28	20 33	0 47	21 51	0 48	21 12	0 30	19 23	0 35	21 15	0 39	12 17	16 30	2 59	2 55	6 47	11 37	0 31	
T 7	6 39	15 44	4 5	5 43	2 26	0 48	1 28	20 42	0 47	21 51	0 48	21 11	0 30	19 22	0 35	21 15	0 39	12 17	16 31	2 59	2 53	6 45	11 38	0 31	
W 8	7 2	17 28	4 45	5 13	2 29	1 18	1 27	20 51	0 48	21 51	0 48	21 11	0 31	19 22	0 35	21 15	0 39	12 16	16 31	2 58	2 52	6 44	11 40	0 31	
T 9	7 24	18 12	5 9	4 41	2 31	1 48	1 27	21 0	0 48	21 50	0 48	21 11	0 31	19 22	0 35	21 15	0 39	12 16	16 31	2 58	2 51	6 42	11 41	0 31	
F 10	7 46	17 58	5 17	4 9	2 32	2 17	1 27	21 9	0 49	21 50	0 48	21 11	0 31	19 21	0 35	21 15	0 39	12 15	16 31	2 58	2 50	6 40	11 42	0 32	
S 11	8 8	16 53	5 10	3 35	2 34	2 47	1 26	21 18	0 49	21 50	0 48	21 11	0 31	19 21	0 35	21 15	0 39	12 15	16 31	2 57	2 48	6 38	11 43	0 32	
S 12	8 30	15 3	4 49	2 59	2 34	3 16	1 25	21 26	0 50	21 50	0 48	21 10	0 31	19 21	0 35	21 15	0 39	12 14	16 31	2 58	2 47	6 37	11 45	0 32	
M13	8 52	12 35	4 15	2 23	2 34	3 46	1 25	21 35	0 50	21 49	0 48	21 10	0 31	19 20	0 35	21 15	0 39	12 14	16 31	2 58	2 46	6 35	11 46	0 32	
T 14	9 14	9 37	3 31	1 45	2 34	4 15	1 24	21 43	0 50	21 49	0 48	21 10	0 31	19 20	0 35	21 15	0 39	12 14	16 31	2 58	2 45	6 33	11 47	0 32	
W15	9 36	6 17	2 38	1 7	2 33	4 45	1 23	21 51	0 51	21 49	0 48	21 10	0 31	19 20	0 35	21 14	0 39	12 13	16 31	2 59	2 43	6 31	11 48	0 32	
T 16	9 57	2 41	1 39	0 27	2 32	5 14	1 22	21 58	0 51	21 49	0 48	21 9	0 31	19 19	0 35	21 14	0 39	12 13	16 31	3 0	2 42	6 30	11 50	0 32	
F 17	10 18	1s 4	0 34	0n13	2 30	5 43	1 22	22 6	0 52	21 48	0 48	21 9	0 31	19 19	0 35	21 14	0 39	12 12	16 31	3 0	2 41	6 28	11 51	0 32	
S 18	10 39	4 48	0n32	0 55	2 27	6 12	1 21	22 13	0 52	21 48	0 48	21 8	0 31	19 19	0 35	21 14	0 39	12 12	16 32	3 0	2 40	6 26	11 52	0 32	
S 19	11 0	8 24	1 38	1 38	2 24	6 41	1 20	22 21	0 52	21 48	0 48	21 8	0 31	19 19	0 35	21 14	0 39	12 11	16 32	2 59	2 38	6 24	11 53	0 32	
M20	11 21	11 41	2 41	2 22	2 21	7 10	1 18	22 28	0 53	21 47	0 48	21 8	0 31	19 18	0 35	21 14	0 39	12 11	16 32	2 59	2 37	6 23	11 55	0 32	
T 21	11 42	14 29	3 36	3 6	2 17	7 38	1 17	22 35	0 53	21 47	0 48	21 7	0 31	19 18	0 35	21 14	0 39	12 11	16 32	2 57	2 36	6 21	11 56	0 32	
W22	12 2	16 37	4 21	3 51	2 12	8 7	1 16	22 41	0 53	21 46	0 48	21 7	0 31	19 18	0 35	21 14	0 39	12 10	16 32	2 56	2 34	6 19	11 57	0 32	
T 23	12 22	17 55	4 54	4 38	2 7	8 35	1 15	22 48	0 54	21 46	0 48	21 6	0 31	19 18	0 36	21 14	0 39	12 10	16 32	2 55	2 33	6 17	11 58	0 33	
F 24	12 42	18 16	5 12	5 25	2 1	9 3	1 14	22 54	0 54	21 45	0 48	21 6	0 31	19 18	0 36	21 14	0 39	12 9	16 32	2 53	2 32	6 16	12 0	0 33	
S 25	13 2	17 35	5 12	6 12	1 55	9 31	1 12	23 0	0 54	21 45	0 48	21 5	0 31	19 17	0 36	21 14	0 39	12 9	16 33	2 52	2 31	6 14	12 1	0 33	
S 26	13 21	15 52	4 55	7 1	1 49	9 59	1 11	23 6	0 55	21 44	0 48	21 5	0 31	19 17	0 36	21 14	0 39	12 9	16 33	2 52	2 29	6 12	12 2	0 33	
M27	13 41	13 12	4 20	7 50	1 42	10 26	1 9	23 11	0 55	21 44	0 48	21 4	0 31	19 17	0 36	21 14	0 39	12 8	16 33	2 52	2 28	6 10	12 3	0 33	
T 28	14 0	9 43	3 29	8 39	1 34	10 53	1 8	23 17	0 56	21 43	0 48	21 4	0 31	19 17	0 36	21 14	0 39	12 8	16 33	2 52	2 27	6 9	12 5	0 33	
W29	14 19	5 37	2 24	9 29	1 26	11 20	1 6	23 22	0 56	21 43	0 48	21 3	0 31	19 17	0 36	21 14	0 39	12 8	16 33	2 52	2 26	6 7	12 6	0 33	
T 30	14n37	1s 8	1n10	10n19	1s18	11n47	1s 5	23n27	0n56	21s42	0n48	21n 2	0n31	19s17	0s36	21s14	0n39	12s 7	16s33	2s53	2s24	6n 5	12n 7	0s33	

ASTRODIENST EPHEMERIS for the year 1829
geocentric

MAY 1829

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	14 34 37	10♌19'29	8♏59	2♊11	5♈ 2	14♏53	13°R56	28♏18	6♎22	20°R34	7♏46	7°R16	6♎ 0	8♏55	3♈24	F 1
S 2	14 38 34	11°17'39	23°30	4°14	6°16	15°33	13♎51	28°22	6°22	20♎34	7°47	7♎15	5°57	9° 1	3°28	S 2
S 3	14 42 30	12°15'48	7♈54	6°19	7°30	16°13	13°45	28°25	6°22	20°34	7°49	7°12	5°54	9° 8	3°31	S 3
M 4	14 46 27	13°13'55	22° 5	8°25	8°44	16°52	13°40	28°29	6°23	20°33	7°50	7° 8	5°51	9°15	3°35	M 4
T 5	14 50 23	14°12'00	5♏58	10°32	9°58	17°32	13°34	28°33	6°23	20°33	7°51	7° 3	5°47	9°21	3°39	T 5
W 6	14 54 20	15°10'03	19°30	12°40	11°12	18°11	13°28	28°36	6°23	20°32	7°52	6°56	5°44	9°28	3°43	W 6
T 7	14 58 17	16° 8'05	2♏39	14°50	12°26	18°51	13°23	28°40	6°24	20°32	7°53	6°50	5°41	9°35	3°47	T 7
F 8	15 2 13	17° 6'05	15°26	17° 0	13°40	19°30	13°17	28°44	6°24	20°31	7°55	6°45	5°38	9°41	3°51	F 8
S 9	15 6 10	18° 4'03	27°53	19°10	14°53	20°10	13°10	28°48	6°24	20°31	7°56	6°41	5°35	9°48	3°54	S 9
S 10	15 10 6	19° 1'59	10♏ 4	21°21	16° 7	20°49	13° 4	28°52	6°24	20°30	7°57	6°39	5°32	9°55	3°58	S 10
M 11	15 14 3	19°59'53	22° 2	23°32	17°21	21°28	12°58	28°57	6°R24	20°30	7°58	6°D39	5°28	10° 1	4° 2	M 11
T 12	15 17 59	20°57'46	3♏53	25°42	18°35	22° 8	12°51	29° 1	6°24	20°29	7°59	6°40	5°25	10° 8	4° 6	T 12
W 13	15 21 56	21°55'37	15°42	27°52	19°49	22°47	12°45	29° 5	6°24	20°29	8° 0	6°41	5°22	10°15	4° 9	W 13
T 14	15 25 52	22°53'26	27°34	0♏ 1	21° 3	23°27	12°38	29°10	6°24	20°28	8° 1	6°42	5°19	10°21	4°13	T 14
F 15	15 29 49	23°51'13	9♎33	2° 9	22°17	24° 6	12°31	29°15	6°24	20°27	8° 3	6°R43	5°16	10°28	4°17	F 15
S 16	15 33 46	24°48'59	21°44	4°16	23°30	24°45	12°24	29°19	6°24	20°27	8° 4	6°41	5°13	10°35	4°21	S 16
S 17	15 37 42	25°46'43	4♏10	6°21	24°44	25°24	12°17	29°24	6°23	20°26	8° 5	6°38	5° 9	10°41	4°24	S 17
M 18	15 41 39	26°44'26	16°52	8°24	25°58	26° 4	12°10	29°29	6°23	20°25	8° 6	6°33	5° 6	10°48	4°28	M 18
T 19	15 45 35	27°42'07	29°52	10°25	27°12	26°43	12° 3	29°34	6°23	20°24	8° 7	6°26	5° 3	10°55	4°32	T 19
W 20	15 49 32	28°39'48	13♎ 8	12°23	28°26	27°22	11°56	29°39	6°22	20°24	8° 8	6°17	5° 0	11° 1	4°35	W 20
T 21	15 53 28	29°37'27	26°39	14°20	29°39	28° 1	11°49	29°44	6°22	20°23	8° 9	6° 8	4°57	11° 8	4°39	T 21
F 22	15 57 25	0♏35'04	10♎22	16°13	0♏53	28°40	11°41	29°49	6°21	20°22	8°10	6° 0	4°53	11°15	4°42	F 22
S 23	16 1 21	1°32'41	24°15	18° 4	2° 7	29°19	11°34	29°54	6°21	20°21	8°11	5°53	4°50	11°21	4°46	S 23
S 24	16 5 18	2°30'17	8♎15	19°53	3°21	29°58	11°27	29°59	6°20	20°20	8°12	5°49	4°47	11°28	4°50	S 24
M 25	16 9 15	3°27'52	22°20	21°38	4°35	0♎37	11°19	0♏ 4	6°19	20°19	8°13	5°46	4°44	11°35	4°53	M 25
T 26	16 13 11	4°25'25	6♎28	23°21	5°48	1°16	11°12	0°10	6°19	20°18	8°14	5°D46	4°41	11°41	4°57	T 26
W 27	16 17 8	5°22'58	20°38	25° 1	7° 2	1°55	11° 4	0°15	6°18	20°17	8°14	5°46	4°38	11°48	5° 0	W 27
T 28	16 21 4	6°20'31	4♏47	26°38	8°16	2°34	10°56	0°21	6°17	20°16	8°15	5°R47	4°34	11°54	5° 3	T 28
F 29	16 25 1	7°18'02	18°56	28°12	9°30	3°13	10°49	0°26	6°16	20°15	8°16	5°46	4°31	12° 1	5° 7	F 29
S 30	16 28 57	8°15'33	3♈ 1	29°42	10°43	3°52	10°41	0°32	6°16	20°14	8°17	5°43	4°28	12° 8	5°10	S 30
S 31	16 32 54	9♏13'02	16♎59	1♏10	11♏57	4♏31	10♎34	0♏38	6♎15	20♎13	8♏18	5♎38	4♎25	12♏14	5♈14	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	decl	decl	decl	decl	lat	decl	decl	decl	lat
F 1	14n56	3n25	0s 9	11n10	1s 9	12n13	1s 3	23n32	0n56	21s42	0n48	21n 2	0n31	19s17	0s36	21s14	0n39	12s 7	16s34	2s53	2s23	6n 3	12n 8	0s33									
S 2	15 14	7 47	1 28	12 0	1 0	12 39	1 1	23 37	0 57	21 41	0 48	21 1	0 31	19 17	0 36	21 14	0 39	12 7	16 34	2 53	2 22	6 2	12 9	0 33									
S 3	15 32	11 38	2 40	12 50	0 50	13 5	1 0	23 41	0 57	21 40	0 48	21 0	0 31	19 16	0 36	21 14	0 39	12 6	16 34	2 52	2 21	6 0	12 11	0 33									
M 4	15 49	14 45	3 40	13 41	0 41	13 30	0 58	23 46	0 57	21 40	0 48	21 0	0 32	19 16	0 36	21 14	0 39	12 6	16 34	2 50	2 19	5 58	12 12	0 33									
T 5	16 7	16 57	4 27	14 31	0 31	13 56	0 56	23 50	0 58	21 39	0 48	20 59	0 32	19 16	0 36	21 14	0 39	12 6	16 34	2 48	2 18	5 56	12 13	0 33									
W 6	16 24	18 7	4 57	15 20	0 20	14 20	0 54	23 54	0 58	21 38	0 48	20 58	0 32	19 16	0 36	21 15	0 39	12 5	16 35	2 45	2 17	5 55	12 14	0 34									
T 7	16 41	18 16	5 10	16 8	0 10	14 45	0 52	23 57	0 58	21 38	0 48	20 58	0 32	19 16	0 36	21 15	0 39	12 5	16 35	2 43	2 16	5 53	12 16	0 34									
F 8	16 57	17 29	5 7	16 56	0n 1	15 9	0 50	24 1	0 59	21 37	0 48	20 57	0 32	19 16	0 36	21 15	0 39	12 5	16 35	2 41	2 14	5 51	12 17	0 34									
S 9	17 14	15 52	4 50	17 43	0 11	15 33	0 48	24 4	0 59	21 36	0 48	20 56	0 32	19 16	0 36	21 15	0 39	12 5	16 35	2 39	2 13	5 49	12 18	0 34									
S 10	17 30	13 34	4 20	18 28	0 22	15 56	0 46	24 7	0 59	21 36	0 48	20 55	0 32	19 16	0 36	21 15	0 39	12 4	16 36	2 39	2 12	5 48	12 19	0 34									
M 11	17 45	10 44	3 39	19 11	0 32	16 19	0 44	24 10	0 59	21 35	0 48	20 54	0 32	19 16	0 36	21 15	0 39	12 4	16 36	2 39	2 11	5 46	12 20	0 34									
T 12	18 1	7 28	2 49	19 53	0 42	16 41	0 42	24 13	1 0	21 34	0 48	20 53	0 32	19 16	0 36	21 15	0 39	12 4	16 36	2 39	2 9	5 44	12 22	0 34									
W 13	18 16	3 56	1 51	20 33	0 52	17 4	0 40	24 16	1 0	21 33	0 48	20 53	0 32	19 16	0 36	21 15	0 39	12 4	16 36	2 39	2 8	5 42	12 23	0 34									
T 14	18 31	0 13	0 49	21 11	1 2	17 25	0 38	24 18	1 0	21 32	0 48	20 52	0 32	19 16	0 36	21 15	0 39	12 4	16 36	2 40	2 7	5 41	12 24	0 34									
F 15	18 45	3s33	0n15	21 46	1 11	17 46	0 36	24 20	1 0	21 32	0 48	20 51	0 32	19 17	0 36	21 15	0 39	12 3	16 37	2 40	2 6	5 39	12 25	0 34									
S 16	18 59	7 14	1 20	22 19	1 20	18 7	0 34	24 22	1 1	21 31	0 48	20 50	0 32	19 17	0 36	21 15	0 39	12 3	16 37	2 40	2 4	5 37	12 26	0 34									
S 17	19 13	10 41	2 23	22 50	1 28	18 27	0 32	24 24	1 1	21 30	0 48	20 49	0 32	19 17	0 36	21 15	0 39	12 3	16 37	2 38	2 3	5 35	12 27	0 35									
M 18	19 27	13 42	3 19	23 18	1 36	18 47	0 29	24 25	1 1	21 29	0 47	20 48	0 32	19 17	0 36	21 16	0 39	12 3	16 38	2 36	2 2	5 34	12 29	0 35									
T 19	19 40	16 7	4 7	23 43	1 43	19 7	0 27	24 27	1 1	21 28	0 47	20 47	0 32	19 17	0 36	21 16	0 39	12 3	16 38	2 33	2 0	5 32	12 30	0 35									
W 20	19 53	17 44	4 42	24 6	1 49	19 25	0 25	24 28	1 2	21 27	0 47	20 46	0 32	19 17	0 36	21 16	0 39	12 3	16 38	2 30	1 59	5 30	12 31	0 35									
T 21	20 5	18 23	5 2	24 26	1 55	19 44	0 23	24 29	1 2	21 26	0 47	20 45	0 32	19 17	0 37	21 16	0 39	12 3	16 38	2 26	1 58	5 28	12 32	0 35									
F 22	20 17	17 59	5 5	24 44	2 0	20 1	0 20	24 29	1 2	21 26	0 47	20 44	0 32	19 17	0 37	21 16	0 39	12 2	16 39	2 23	1 57	5 26	12 33	0 35									
S 23	20 29	16 31	4 51	24 59	2 4	20 19	0 18	24 30	1 2	21 25	0 47	20 43	0 32	19 18	0 37	21 16	0 39	12 2	16 39	2 20	1 55	5 25	12 34	0 35									
S 24	20 41	14 3	4 19	25 11	2 7	20 35	0 16	24 30	1 3	21 24	0 47	20 42	0 32	19 18	0 37	21 16	0 39	12 2	16 39	2 19	1 54	5 23	12 35	0 35									
M 25	20 52	10 45	3 31	25 21	2 10	20 51	0 13	24 30	1 3	21 23	0 47	20 41	0 32	19 18	0 37	21 16	0 39	12 2	16 40	2 18	1 53	5 21	12 36	0 35									
T 26	21 3	6 49	2 30	25 29	2 12	21 7	0 11	24 30	1 3	21 22	0 47	20 40	0 32	19 18	0 37	21 17	0 39	12 2	16 40	2 17	1 52	5 19	12 37	0 35									
W 27	21 13	2 29	1 20	25 34	2 13	21 22	0 9	24 30	1 3	21 21	0 47	20 38	0 32	19 18	0 37	21 17	0 39	12 2	16 40	2 18	1 50	5 18	12 39	0 35									
T 28	21 23	1n59	0 5	25 38	2 13	21 36	0 6	24 29	1 3	21 20	0 47	20 37	0 32	19 19	0 37	21 17	0 39	12 2	16 40	2 18	1 49	5 16	12 40	0 36									
F 29	21 33	6 21	1s10	25 39	2 12	21 50	0 4	24 29	1 4	21 19	0 47	20 36	0 33	19 19	0 37	21 17	0 39	12 2	16 41	2 18	1 48	5 14	12 41	0 36									
S 30	21 42	10 20	2 20	25 38	2 11	22 3	0 1	24 28	1 4	21 18	0 46	20 35	0 33	19 19	0 37	21 17	0 39	12 2	16 41	2 17	1 47	5 12	12 42	0 36									
S 31	21n51	13n42	3s21	25n36	2n 9	22n15	0n 1	24n27	1n 4	21s17	0n46	20n34	0n33	19s19	0s37	21s17	0n39	12s 2	16s41	2s14	1s45	5n10	12n43	0s36									

ASTRODIENST EPHEMERIS for the year 1829

geocentric

JUNE 1829

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 36 50	10 ^{II} 10'31	0 ^{II} 48	25 ³⁵	13 ^{II} 11	5 ⁵ 10	10°R26	0 ^{II} 44	6°R14	20°R12	8°V19	5°R30	4 ^{II} 22	12 ^{II} 21	5 ⁸ 17	M 1
T 2	16 40 47	11° 7'59	14°23	3°57	14°25	5°49	10 ^{II} 18	0°50	6 ^{II} 13	20 ^{II} 10	8°19	5 ^{II} 20	4°19	12°28	5°20	T 2
W 3	16 44 44	12° 5'26	27°42	5°15	15°38	6°28	10°11	0°55	6°12	20° 9	8°20	5° 9	4°15	12°34	5°24	W 3
T 4	16 48 40	13° 2'53	10 ^{II} 43	6°30	16°52	7° 7	10° 3	1° 1	6°10	20° 8	8°21	4°58	4°12	12°41	5°27	T 4
F 5	16 52 37	14° 0'18	23°25	7°42	18° 6	7°46	9°55	1° 7	6° 9	20° 7	8°22	4°48	4° 9	12°48	5°30	F 5
S 6	16 56 33	14°57'42	5 ^{II} 50	8°51	19°20	8°25	9°48	1°14	6° 8	20° 6	8°22	4°40	4° 6	12°54	5°33	S 6
S 7	17 0 30	15°55'04	17°59	9°56	20°33	9° 3	9°40	1°20	6° 7	20° 4	8°23	4°35	4° 3	13° 1	5°37	S 7
M 8	17 4 26	16°52'26	29°56	10°58	21°47	9°42	9°33	1°26	6° 6	20° 3	8°24	4°31	3°59	13° 8	5°40	M 8
T 9	17 8 23	17°49'47	11 ^{II} 47	11°57	23° 1	10°21	9°25	1°32	6° 4	20° 2	8°24	4°30	3°56	13°14	5°43	T 9
W10	17 12 19	18°47'07	23°36	12°52	24°14	11° 0	9°18	1°39	6° 3	20° 1	8°25	4°D30	3°53	13°21	5°46	W10
T 11	17 16 16	19°44'26	5 ^{II} 28	13°43	25°28	11°38	9°10	1°45	6° 2	19°59	8°26	4°R30	3°50	13°28	5°49	T 11
F 12	17 20 13	20°41'44	17°30	14°30	26°42	12°17	9° 3	1°51	6° 0	19°58	8°26	4°29	3°47	13°34	5°52	F 12
S 13	17 24 9	21°39'01	29°45	15°13	27°55	12°56	8°55	1°58	5°59	19°56	8°27	4°27	3°44	13°41	5°55	S 13
S 14	17 28 6	22°36'17	12 ^{II} 19	15°53	29° 9	13°35	8°48	2° 4	5°57	19°55	8°27	4°22	3°40	13°48	5°58	S 14
M15	17 32 2	23°33'32	25°13	16°28	0 ^{II} 23	14°13	8°41	2°11	5°56	19°54	8°28	4°15	3°37	13°54	6° 1	M15
T 16	17 35 59	24°30'47	8 ^{II} 29	17° 0	1°37	14°52	8°34	2°18	5°54	19°52	8°28	4° 6	3°34	14° 1	6° 4	T 16
W17	17 39 55	25°28'01	22° 6	17°27	2°50	15°30	8°27	2°24	5°53	19°51	8°29	3°54	3°31	14° 8	6° 7	W17
T 18	17 43 52	26°25'15	6 ^{II} 2	2°12	17°49	4° 4	16° 9	2°31	5°51	19°49	8°29	3°43	3°28	14°14	6° 9	T 18
F 19	17 47 48	27°22'29	20°12	18° 7	5°18	16°48	8°13	2°38	5°49	19°48	8°30	3°32	3°25	14°21	6°12	F 19
S 20	17 51 45	28°19'42	4 ^{II} 30	18°21	6°31	17°26	8° 6	2°45	5°48	19°47	8°30	3°23	3°21	14°28	6°15	S 20
S 21	17 55 42	29°16'54	18°52	18°30	7°45	18° 5	7°59	2°52	5°46	19°45	8°31	3°16	3°18	14°34	6°17	S 21
M22	17 59 38	0 ^{II} 14'07	3 ^{II} 12	18°R35	8°59	18°43	7°53	2°58	5°44	19°44	8°31	3°12	3°15	14°41	6°20	M22
T 23	18 3 35	1°11'19	17°28	18°35	10°12	19°22	7°46	3° 5	5°42	19°42	8°31	3°10	3°12	14°48	6°23	T 23
W24	18 7 31	2° 8'32	1°V36	18°30	11°26	20° 0	7°40	3°12	5°40	19°41	8°32	3°10	3° 9	14°54	6°25	W24
T 25	18 11 28	3° 5'44	15°37	18°21	12°39	20°39	7°34	3°19	5°38	19°39	8°32	3°10	3° 5	15° 1	6°28	T 25
F 26	18 15 24	4° 2'57	29°30	18° 8	13°53	21°17	7°27	3°26	5°37	19°37	8°32	3° 9	3° 2	15° 7	6°30	F 26
S 27	18 19 21	5° 0'10	13 ^{II} 14	17°50	15° 7	21°56	7°21	3°34	5°35	19°36	8°33	3° 5	2°59	15°14	6°33	S 27
S 28	18 23 17	5°57'23	26°49	17°29	16°20	22°34	7°15	3°41	5°33	19°34	8°33	2°59	2°56	15°21	6°35	S 28
M29	18 27 14	6°54'36	10 ^{II} 13	17° 3	17°34	23°13	7° 9	3°48	5°31	19°33	8°33	2°50	2°53	15°27	6°37	M29
T 30	18 31 11	7°51'49	23 ^{II} 26	16°35	18°48	23°51	7 ^{II} 4	3°55	5 ^{II} 29	19°31	8°V33	2°539	2°50	15°34	6°40	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	decl	lat
M 1	22n 0	16n15	4s10	25n32	2n 6	22n27	0n 3	24n26	1n 4	21s16	0n46	20n33	0n33	19s20	0s37	21s17	0n39	12s 2	16s42	2s11	1s44	5n 9	12n44	0s36			
T 2	22 8	17 51	4 43	25 26	2 2	22 39	0 6	24 24	1 4	21 15	0 46	20 31	0 33	19 20	0 37	21 18	0 39	12 2	16 42	2 7	1 43	5 7	12 45	0 36			
W 3	22 16	18 26	5 0	25 18	1 57	22 49	0 8	24 23	1 5	21 14	0 46	20 30	0 33	19 20	0 37	21 18	0 39	12 2	16 42	2 3	1 42	5 5	12 46	0 36			
T 4	22 23	18 1	5 1	25 10	1 52	22 59	0 11	24 21	1 5	21 13	0 46	20 29	0 33	19 20	0 37	21 18	0 39	12 2	16 43	1 59	1 40	5 3	12 47	0 36			
F 5	22 30	16 42	4 47	25 0	1 46	23 8	0 13	24 19	1 5	21 12	0 46	20 28	0 33	19 21	0 37	21 18	0 39	12 2	16 43	1 55	1 39	5 2	12 48	0 36			
S 6	22 37	14 38	4 20	24 48	1 39	23 17	0 15	24 16	1 5	21 11	0 46	20 26	0 33	19 21	0 37	21 18	0 39	12 2	16 43	1 51	1 38	5 0	12 49	0 36			
S 7	22 43	11 57	3 41	24 36	1 31	23 25	0 18	24 14	1 5	21 10	0 45	20 25	0 33	19 21	0 37	21 18	0 39	12 2	16 44	1 49	1 37	4 58	12 50	0 37			
M 8	22 49	8 48	2 53	24 23	1 23	23 32	0 20	24 11	1 5	21 9	0 45	20 24	0 33	19 22	0 37	21 19	0 39	12 2	16 44	1 48	1 35	4 56	12 51	0 37			
T 9	22 54	5 20	1 58	24 9	1 14	23 39	0 22	24 9	1 6	21 8	0 45	20 22	0 33	19 22	0 37	21 19	0 39	12 2	16 44	1 47	1 34	4 54	12 52	0 37			
W10	22 59	1 40	0 58	23 54	1 4	23 45	0 25	24 6	1 6	21 7	0 45	20 21	0 33	19 23	0 37	21 19	0 39	12 2	16 45	1 47	1 33	4 53	12 53	0 37			
T 11	23 4	2s 6	0n 5	23 38	0 53	23 50	0 27	24 2	1 6	21 6	0 45	20 19	0 33	19 23	0 37	21 19	0 39	12 2	16 45	1 47	1 31	4 51	12 53	0 37			
F 12	23 8	5 49	1 9	23 22	0 42	23 54	0 29	23 59	1 6	21 5	0 45	20 18	0 33	19 23	0 37	21 19	0 39	12 2	16 45	1 47	1 30	4 49	12 54	0 37			
S 13	23 12	9 22	2 10	23 5	0 30	23 58	0 31	23 56	1 6	21 4	0 45	20 17	0 33	19 24	0 37	21 20	0 39	12 2	16 46	1 46	1 29	4 47	12 55	0 37			
S 14	23 15	12 35	3 6	22 48	0 18	24 1	0 34	23 52	1 6	21 3	0 44	20 15	0 33	19 24	0 37	21 20	0 39	12 2	16 46	1 44	1 28	4 46	12 56	0 37			
M15	23 18	15 17	3 55	22 31	0 5	24 3	0 36	23 48	1 6	21 2	0 44	20 14	0 33	19 24	0 37	21 20	0 39	12 3	16 46	1 41	1 26	4 44	12 57	0 37			
T 16	23 21	17 16	4 32	22 14	0s 9	24 5	0 38	23 44	1 7	21 1	0 44	20 12	0 33	19 25	0 37	21 20	0 39	12 3	16 47	1 38	1 25	4 42	12 58	0 37			
W17	23 23	18 19	4 55	21 56	0 23	24 6	0 40	23 40	1 7	21 0	0 44	20 11	0 33	19 25	0 37	21 20	0 39	12 3	16 47	1 33	1 24	4 40	12 59	0 38			
T 18	23 25	18 19	5 1	21 39	0 38	24 6	0 42	23 35	1 7	21 0	0 44	20 9	0 33	19 26	0 37	21 21	0 39	12 3	16 47	1 29	1 23	4 38	12 59	0 38			
F 19	23 26	17 11	4 48	21 21	0 53	24 6	0 45	23 31	1 7	20 59	0 44	20 8	0 34	19 26	0 37	21 21	0 39	12 3	16 48	1 24	1 21	4 37	13 0	0 38			
S 20	23 27	14 58	4 18	21 4	1 9	24 4	0 47	23 26	1 7	20 58	0 43	20 6	0 34	19 27	0 37	21 21	0 39	12 3	16 48	1 21	1 20	4 35	13 1	0 38			
S 21	23 27	11 50	3 31	20 47	1 24	24 3	0 49	23 21	1 7	20 57	0 43	20 5	0 34	19 27	0 37	21 21	0 39	12 3	16 49	1 18	1 19	4 33	13 2	0 38			
M22	23 28	7 59	2 31	20 31	1 40	24 0	0 51	23 16	1 7	20 56	0 43	20 3	0 34	19 28	0 38	21 22	0 39	12 4	16 49	1 16	1 18	4 31	13 3	0 38			
T 23	23 27	3 42	1 22	20 15	1 57	23 57	0 53	23 10	1 7	20 55	0 43	20 2	0 34	19 28	0 38	21 22	0 39	12 4	16 49	1 16	1 16	4 30	13 3	0 38			
W24	23 26	0n46	0 8	19 59	2 13	23 52	0 55	23 5	1 7	20 54	0 43	20 0	0 34	19 29	0 38	21 22	0 39	12 4	16 50	1 16	1 15	4 28	13 4	0 38			
T 25	23 25	5 9	1s 5	19 44	2 29	23 48	0 57	22 59	1 8	20 53	0 43	19 59	0 34	19 29	0 38	21 22	0 39	12 4	16 50	1 16	1 14	4 26	13 5	0 38			
F 26	23 24	9 12	2 14	19 30	2 45	23 42	0 58	22 53	1 8	20 53	0 42	19 57	0 34	19 29	0 38	21 22	0 39	12 4	16 50	1 15	1 13	4 24	13 6	0 39			
S 27	23 22	12 43	3 15	19 17	3 0	23 36	1 0	22 47	1 8	20 52	0 42	19 55	0 34	19 30	0 38	21 23	0 39	12 5	16 51	1 14	1 11	4 22	13 6	0 39			
S 28	23 19	15 31	4 3	19 5	3 16	23 29	1 2	22 41	1 8	20 51	0 42	19 54	0 34	19 30	0 38	21 23	0 39	12 5	16 51	1 11	1 10	4 21	13 7	0 39			
M29	23 17	17 25	4 38	18 54	3 30	23 22	1 4	22 35	1 8	20 50	0 42	19 52	0 34	19 31	0 38	21 23	0 39	12 5	16 51	1 8	1 9	4 19	13 8	0 39			
T 30	23n14	18n21	4s57	18n44	3s44	23n13	1n 6	22n28	1n 8	20s49	0n42	19n51	0n34	19s32	0s38	21s23	0n39	12s 5	16s52	1s 3	1s 7	4n17	13n 8	0s39			

ASTRODIENST EPHEMERIS for the year 1829
geocentric

JULY 1829

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	18 35 7	8°49'02	6°26	16°R 4	20°26 1	24°2630	6°R58	4°2 2	5°R27	19°R30	8°V33	2°R26	2°46	15°41	6°42	W 1
T 2	18 39 4	9°46'15	19°11	15°230	21°15	25° 8	6°R53	4°10	5°25	19°28	8°34	2°13	2°43	15°47	6°44	T 2
F 3	18 43 0	10°43'27	1°42	14°55	22°29	25°47	6°47	4°17	5°22	19°26	8°34	2° 2	2°40	15°54	6°46	F 3
S 4	18 46 57	11°40'40	13°58	14°18	23°42	26°25	6°42	4°24	5°20	19°25	8°34	1°52	2°37	16° 1	6°48	S 4
S 5	18 50 53	12°37'53	26° 2	13°40	24°56	27° 3	6°37	4°32	5°18	19°23	8°34	1°45	2°34	16° 7	6°51	S 5
M 6	18 54 50	13°35'05	7°57	13° 3	26°10	27°42	6°32	4°39	5°16	19°22	8°34	1°40	2°31	16°14	6°53	M 6
T 7	18 58 46	14°32'18	19°46	12°26	27°23	28°20	6°28	4°46	5°14	19°20	8°34	1°38	2°27	16°21	6°55	T 7
W 8	19 2 43	15°29'30	1°43	11°50	28°37	28°59	6°23	4°54	5°12	19°18	8°34	1°D38	2°24	16°27	6°56	W 8
T 9	19 6 40	16°26'42	13°25	11°17	29°51	29°37	6°19	5° 1	5° 9	19°17	8°R34	1°R38	2°21	16°34	6°58	T 9
F 10	19 10 36	17°23'55	25°26	10°45	1°4 4	0°15	6°15	5° 9	5° 7	19°15	8°34	1°37	2°18	16°41	7° 0	F 10
S 11	19 14 33	18°21'07	7°42	10°17	2°18	0°54	6°11	5°16	5° 5	19°14	8°34	1°36	2°15	16°47	7° 2	S 11
S 12	19 18 29	19°18'19	20°18	9°52	3°31	1°32	6° 7	5°24	5° 3	19°12	8°34	1°32	2°11	16°54	7° 4	S 12
M13	19 22 26	20°15'31	3°17	9°32	4°45	2°10	6° 3	5°31	5° 0	19°10	8°34	1°26	2° 8	17° 1	7° 5	M13
T 14	19 26 22	21°12'44	16°42	9°15	5°59	2°48	5°59	5°39	4°58	19° 9	8°34	1°18	2° 5	17° 7	7° 7	T 14
W15	19 30 19	22° 9'57	0°33	9° 4	7°12	3°27	5°56	5°46	4°56	19° 7	8°34	1° 8	2° 2	17°14	7° 9	W15
T 16	19 34 15	23° 7'10	14°46	8°57	8°26	4° 5	5°53	5°54	4°54	19° 5	8°34	0°58	1°59	17°20	7°10	T 16
F 17	19 38 12	24° 4'23	29°18	8°D56	9°39	4°43	5°50	6° 2	4°51	19° 4	8°33	0°48	1°56	17°27	7°12	F 17
S 18	19 42 9	25° 1'37	14°1	9° 1	10°53	5°22	5°47	6° 9	4°49	19° 2	8°33	0°40	1°52	17°34	7°13	S 18
S 19	19 46 5	25°58'52	28°46	9°11	12° 6	6° 0	5°44	6°17	4°46	19° 1	8°33	0°34	1°49	17°40	7°14	S 19
M20	19 50 2	26°56'07	13°28	9°27	13°20	6°38	5°42	6°25	4°44	18°59	8°33	0°31	1°46	17°47	7°16	M20
T 21	19 53 58	27°53'23	28° 1	9°48	14°34	7°16	5°39	6°32	4°42	18°57	8°33	0°D30	1°43	17°54	7°17	T 21
W22	19 57 55	28°50'40	12°V19	10°16	15°47	7°55	5°37	6°40	4°39	18°56	8°32	0°30	1°40	18° 0	7°18	W22
T 23	20 1 51	29°47'57	26°23	10°49	17° 1	8°33	5°35	6°48	4°37	18°54	8°32	0°R31	1°36	18° 7	7°19	T 23
F 24	20 5 48	0°45'16	10°B10	11°28	18°14	9°11	5°33	6°55	4°35	18°53	8°32	0°31	1°33	18°14	7°20	F 24
S 25	20 9 44	1°42'36	23°43	12°13	19°28	9°49	5°32	7° 3	4°32	18°51	8°31	0°28	1°30	18°20	7°21	S 25
S 26	20 13 41	2°39'57	7°II 1	13° 4	20°41	10°27	5°30	7°11	4°30	18°49	8°31	0°24	1°27	18°27	7°22	S 26
M27	20 17 38	3°37'19	20° 6	14° 0	21°55	11° 6	5°29	7°18	4°27	18°48	8°31	0°17	1°24	18°34	7°23	M27
T 28	20 21 34	4°34'41	2°58	15° 2	23° 8	11°44	5°28	7°26	4°25	18°46	8°30	0° 9	1°21	18°40	7°24	T 28
W29	20 25 31	5°32'05	15°38	16° 9	24°22	12°22	5°27	7°34	4°23	18°45	8°30	29°59	1°17	18°47	7°25	W29
T 30	20 29 27	6°29'30	28° 6	17°22	25°35	13° 0	5°26	7°42	4°20	18°43	8°29	29°50	1°14	18°54	7°26	T 30
F 31	20 33 24	7°26'55	10°22	18°23	26°49	13°39	5°26	7°49	4°18	18°42	8°V29	29°41	1°11	19°0	7°26	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	decl	decl	lat
W 1	23n10	18n19	5s 0	18n35	3s57	23n 4	1n 7	22n21	1n 8	20s49	0n41	19n49	0n34	19s32	0s38	21s24	0n39	12s 6	16s52	0s58	1s 6	4n15	13n 9	0s39		
T 2	23 6	17 20	4 48	18 27	4 8	22 55	1 9	22 14	1 8	20 48	0 41	19 47	0 34	19 33	0 38	21 24	0 39	12 6	16 53	0 53	1 5	4 13	13 9	0 39		
F 3	23 2	15 32	4 22	18 20	4 19	22 44	1 10	22 7	1 8	20 47	0 41	19 46	0 34	19 33	0 38	21 24	0 39	12 6	16 53	0 48	1 4	4 12	13 10	0 39		
S 4	22 57	13 4	3 44	18 15	4 28	22 33	1 12	22 0	1 8	20 47	0 41	19 44	0 34	19 34	0 38	21 24	0 39	12 7	16 53	0 45	1 2	4 10	13 11	0 39		
S 5	22 51	10 4	2 57	18 11	4 36	22 22	1 13	21 53	1 8	20 46	0 41	19 42	0 34	19 34	0 38	21 24	0 39	12 7	16 54	0 42	1 1	4 8	13 11	0 40		
M 6	22 46	6 42	2 2	18 8	4 42	22 10	1 15	21 45	1 8	20 45	0 40	19 41	0 35	19 35	0 38	21 25	0 39	12 7	16 54	0 40	1 0	4 6	13 12	0 40		
T 7	22 40	3 6	1 3	18 7	4 47	21 57	1 16	21 38	1 9	20 45	0 40	19 39	0 35	19 35	0 38	21 25	0 39	12 7	16 54	0 39	0 59	4 4	13 12	0 40		
W 8	22 34	0s38	0 0	18 7	4 50	21 43	1 18	21 30	1 9	20 44	0 40	19 37	0 35	19 36	0 38	21 25	0 39	12 8	16 55	0 39	0 57	4 3	13 13	0 40		
T 9	22 27	4 21	1n 2	18 8	4 52	21 29	1 19	21 22	1 9	20 44	0 40	19 35	0 35	19 36	0 38	21 25	0 39	12 8	16 55	0 39	0 56	4 1	13 13	0 40		
F 10	22 20	7 56	2 3	18 11	4 52	21 14	1 20	21 14	1 9	20 43	0 40	19 34	0 35	19 37	0 38	21 26	0 39	12 8	16 56	0 39	0 55	3 59	13 14	0 40		
S 11	22 12	11 16	3 0	18 15	4 50	20 59	1 21	21 6	1 9	20 43	0 39	19 32	0 35	19 37	0 38	21 26	0 39	12 9	16 56	0 38	0 54	3 57	13 14	0 40		
S 12	22 4	14 10	3 49	18 20	4 46	20 43	1 22	20 57	1 9	20 42	0 39	19 30	0 35	19 38	0 38	21 26	0 39	12 9	16 56	0 37	0 52	3 55	13 15	0 40		
M13	21 56	16 27	4 28	18 26	4 42	20 26	1 23	20 49	1 9	20 42	0 39	19 28	0 35	19 39	0 38	21 26	0 39	12 10	16 57	0 34	0 51	3 54	13 15	0 41		
T 14	21 47	17 56	4 53	18 33	4 36	20 9	1 24	20 40	1 9	20 41	0 39	19 26	0 35	19 39	0 38	21 27	0 39	12 10	16 57	0 31	0 50	3 52	13 16	0 41		
W15	21 38	18 24	5 3	18 42	4 28	19 51	1 25	20 31	1 9	20 41	0 39	19 25	0 35	19 40	0 38	21 27	0 39	12 10	16 57	0 27	0 49	3 50	13 16	0 41		
T 16	21 29	17 46	4 54	18 51	4 19	19 33	1 26	20 22	1 9	20 41	0 38	19 23	0 35	19 40	0 38	21 27	0 39	12 11	16 58	0 23	0 47	3 48	13 16	0 41		
F 17	21 19	15 58	4 27	19 0	4 9	19 14	1 27	20 13	1 9	20 40	0 38	19 21	0 35	19 41	0 38	21 27	0 39	12 11	16 58	0 19	0 46	3 46	13 17	0 41		
S 18	21 9	13 6	3 41	19 11	3 59	18 55	1 27	20 4	1 9	20 40	0 38	19 19	0 35	19 41	0 38	21 28	0 39	12 11	16 58	0 16	0 45	3 45	13 17	0 41		
S 19	20 58	9 24	2 41	19 22	3 47	18 35	1 28	19 54	1 9	20 40	0 38	19 17	0 35	19 42	0 38	21 28	0 39	12 12	16 59	0 14	0 43	3 43	13 17	0 41		
M20	20 47	5 7	1 30	19 33	3 35	18 15	1 29	19 45	1 9	20 39	0 38	19 16	0 35	19 43	0 38	21 28	0 39	12 12	16 59	0 12	0 42	3 41	13 18	0 41		
T 21	20 36	0 35	0 13	19 45	3 21	17 54	1 29	19 35	1 9	20 39	0 37	19 14	0 36	19 43	0 38	21 28	0 39	12 13	17 0	0 12	0 41	3 39	13 18	0 41		
W22	20 24	3n55	1s 3	19 57	3 8	17 33	1 30	19 25	1 9	20 39	0 37	19 12	0 36	19 44	0 38	21 29	0 39	12 13	17 0	0 12	0 40	3 37	13 18	0 42		
T 23	20 13	8 6	2 14	20 8	2 53	17 11	1 30	19 15	1 9	20 39	0 37	19 10	0 36	19 44	0 38	21 29	0 39	12 14	17 0	0 12	0 38	3 36	13 19	0 42		
F 24	20 0	11 47	3 16	20 19	2 39	16 48	1 30	19 5	1 9	20 39	0 37	19 8	0 36	19 45	0 38	21 29	0 39	12 14	17 1	0 12	0 37	3 34	13 19	0 42		
S 25	19 48	14 45	4 5	20 30	2 24	16 26	1 31	18 55	1 9	20 39	0 36	19 6	0 36	19 46	0 38	21 29	0 39	12 14	17 1	0 11	0 36	3 32	13 19	0 42		
S 26	19 35	16 53	4 41	20 41	2 9	16 2	1 31	18 44	1 9	20 39	0 36	19 4	0 36	19 46	0 38	21 29	0 39	12 15	17 1	0 10	0 35	3 30	13 19	0 42		
M27	19 22	18 5	5 1	20 50	1 54	15 39	1 31	18 34	1 9	20 39	0 36	19 2	0 36	19 47	0 38	21 30	0 39	12 15	17 2	0 7	0 33	3 28	13 19	0 42		
T 28	19 8	18 20	5 5	20 59	1 39	15 15	1 31	18 23	1 9	20 39	0 36	19 1	0 36	19 47	0 38	21 30	0 39	12 16	17 2	0 4	0 32	3 27	13 20	0 42		
W29	18 54	17 40	4 54	21 6	1 24	14 50	1 31	18 13	1 9	20 39	0 36	18 59	0 36	19 48	0 38	21 30	0 39	12 16	17 2	0n 0	0 31	3 25	13 20	0 42		
T 30	18 40	16 9	4 30	21 12	1 9	14 26	1 31	18 2	1 9	20 39	0 35	18 57	0 36	19 48	0 38	21 30	0 39	12 17	17 3	0 4	0 30	3 23	13 20	0 43		
F 31	18n25	13n55	3s53	21n16	0s54	14n 0	1n31	17n51	1n 9	20s39	0n35	18n55	0n36	19s49	0s38	21s31	0n39	12s17	17s 3	0n 8	0s28	3n21	13n20	0s43		

ASTRODIENST EPHEMERIS for the year 1829

geocentric

AUGUST 1829

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 37 20	8♌24'22	22♌28	20♌2	28♌2	14♌17	5°R25	7♌57	4°R15	18°R40	8°R28	29°R33	1♌8	19♌7	7♌27	S 1
S 2	20 41 17	9°21'49	4♍25	21°30	29°16	14°55	5°D25	8°5	4♍13	18♌39	8°V28	29♍28	1°5	19°14	7°28	S 2
M 3	20 45 13	10°19'17	16°16	23°2	0♍29	15°33	5°J25	8°12	4°11	18°37	8°27	29°25	1°2	19°20	7°28	M 3
T 4	20 49 10	11°16'46	28°3	24°38	1°43	16°11	5°25	8°20	4°8	18°36	8°27	29°D24	0°58	19°27	7°29	T 4
W 5	20 53 7	12°14'16	9♌49	26°19	2°56	16°49	5°26	8°28	4°6	18°34	8°26	29°24	0°55	19°33	7°29	W 5
T 6	20 57 3	13°11'46	21°40	28°3	4°10	17°28	5°26	8°36	4°4	18°33	8°26	29°26	0°52	19°40	7°29	T 6
F 7	21 1 0	14°9'18	3♍41	29°51	5°23	18°6	5°27	8°43	4°1	18°31	8°25	29°27	0°49	19°47	7°30	F 7
S 8	21 4 56	15°6'50	15°55	1♌42	6°37	18°44	5°28	8°51	3°59	18°30	8°25	29°R27	0°46	19°53	7°30	S 8
S 9	21 8 53	16°4'23	28°29	3°35	7°50	19°22	5°29	8°59	3°57	18°29	8°24	29°27	0°42	20°0	7°30	S 9
M10	21 12 49	17°1'58	11♌26	5°31	9°3	20°0	5°30	9°6	3°54	18°27	8°23	29°24	0°39	20°7	7°30	M10
T 11	21 16 46	17°59'33	24°51	7°28	10°17	20°39	5°32	9°14	3°52	18°26	8°23	29°20	0°36	20°13	7°30	T 11
W12	21 20 42	18°57'09	8♌43	9°27	11°30	21°17	5°34	9°22	3°50	18°25	8°22	29°14	0°33	20°20	7°R30	W12
T 13	21 24 39	19°54'46	23°3	11°28	12°44	21°55	5°35	9°29	3°47	18°23	8°21	29°9	0°30	20°27	7°30	T 13
F 14	21 28 36	20°52'24	7♌44	13°29	13°57	22°33	5°38	9°37	3°45	18°22	8°21	29°3	0°27	20°33	7°30	F 14
S 15	21 32 32	21°50'03	22°42	15°30	15°10	23°11	5°40	9°45	3°43	18°21	8°20	28°58	0°23	20°40	7°30	S 15
S 16	21 36 29	22°47'44	7♌47	17°32	16°24	23°49	5°42	9°52	3°41	18°19	8°19	28°55	0°20	20°47	7°30	S 16
M17	21 40 25	23°45'26	22°49	19°34	17°37	24°27	5°45	10°0	3°38	18°18	8°18	28°D54	0°17	20°53	7°30	M17
T 18	21 44 22	24°43'09	7°V42	21°35	18°50	25°6	5°47	10°7	3°36	18°17	8°17	28°54	0°14	21°0	7°29	T 18
W19	21 48 18	25°40'55	22°17	23°36	20°3	25°44	5°50	10°15	3°34	18°16	8°17	28°55	0°11	21°7	7°29	W19
T 20	21 52 15	26°38'41	6♌32	25°36	21°17	26°22	5°53	10°23	3°32	18°14	8°16	28°56	0°8	21°13	7°28	T 20
F 21	21 56 11	27°36'30	20°26	27°35	22°30	27°0	5°57	10°30	3°30	18°13	8°15	28°57	0°4	21°20	7°28	F 21
S 22	22 0 8	28°34'21	3♍57	29°34	23°43	27°38	6°0	10°38	3°28	18°12	8°14	28°R57	0°1	21°26	7°27	S 22
S 23	22 4 5	29°32'13	17°8	1♍31	24°56	28°17	6°4	10°45	3°26	18°11	8°13	28°56	29♍58	21°33	7°27	S 23
M24	22 8 1	0♍30'07	0♌2	3°28	26°10	28°55	6°8	10°53	3°23	18°10	8°12	28°54	29°55	21°40	7°26	M24
T 25	22 11 58	1°28'03	12°39	5°23	27°23	29°33	6°12	11°0	3°21	18°9	8°12	28°50	29°52	21°46	7°25	T 25
W26	22 15 54	2°26'00	25°3	7°17	28°36	0♍11	6°16	11°7	3°19	18°8	8°11	28°46	29°48	21°53	7°25	W26
T 27	22 19 51	3°24'00	7♌16	9°9	29°49	0°49	6°20	11°15	3°17	18°7	8°10	28°42	29°45	22°0	7°24	T 27
F 28	22 23 47	4°22'01	19°20	11°1	1♌2	1°27	6°24	11°22	3°16	18°6	8°9	28°38	29°42	22°6	7°23	F 28
S 29	22 27 44	5°20'03	1♍16	12°51	2°16	2°6	6°29	11°29	3°14	18°5	8°8	28°35	29°39	22°13	7°22	S 29
S 30	22 31 40	6°18'07	13°7	14°40	3°29	2°44	6°34	11°37	3°12	18°4	8°7	28°32	29°36	22°20	7°21	S 30
M31	22 35 37	7♍16'13	24♍54	16♍28	4♌42	3♍22	6°J39	11♌44	3♍10	18♌3	8°V6	28°D32	29♍33	22♍26	7♌20	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	18n11	11n 6	3s 6	21n19	0s40	13n35	1n30	17n40	1n 9	20s39	0n35	18n53	0n36	19s50	0s38	21s31	0n39	12s18	17s 3	0n11	0s27	3n19	13n20	0s43
S 2	17 56	7 52	2 11	21 19	0 26	13 9	1 30	17 29	1 9	20 39	0 35	18 51	0 37	19 50	0 38	21 31	0 39	12 18	17 4	0 13	0 26	3 18	13 20	0 43
M 3	17 40	4 21	1 10	21 18	0 12	12 42	1 30	17 17	1 9	20 39	0 35	18 49	0 37	19 51	0 38	21 31	0 39	12 19	17 4	0 14	0 25	3 16	13 20	0 43
T 4	17 24	0 40	0 7	21 14	0n 1	12 16	1 29	17 6	1 9	20 40	0 34	18 47	0 37	19 51	0 38	21 32	0 39	12 19	17 4	0 14	0 23	3 14	13 20	0 43
W 5	17 8	3s 2	0n56	21 8	0 14	11 49	1 29	16 54	1 9	20 40	0 34	18 45	0 37	19 52	0 38	21 32	0 39	12 20	17 5	0 14	0 22	3 12	13 20	0 43
T 6	16 52	6 38	1 58	20 59	0 25	11 22	1 28	16 43	1 9	20 40	0 34	18 43	0 37	19 52	0 38	21 32	0 39	12 20	17 5	0 14	0 21	3 10	13 20	0 43
F 7	16 36	10 0	2 55	20 48	0 37	10 54	1 28	16 31	1 9	20 41	0 34	18 41	0 37	19 53	0 38	21 32	0 39	12 21	17 5	0 13	0 19	3 9	13 20	0 44
S 8	16 19	13 1	3 46	20 34	0 47	10 26	1 27	16 19	1 9	20 41	0 33	18 39	0 37	19 54	0 38	21 32	0 39	12 21	17 6	0 13	0 18	3 7	13 20	0 44
S 9	16 2	15 30	4 27	20 17	0 57	9 58	1 26	16 7	1 9	20 41	0 33	18 37	0 37	19 54	0 38	21 33	0 39	12 22	17 6	0 13	0 17	3 5	13 20	0 44
M10	15 45	17 17	4 56	19 58	1 5	9 30	1 25	15 55	1 9	20 42	0 33	18 35	0 37	19 55	0 38	21 33	0 39	12 22	17 6	0 14	0 16	3 3	13 20	0 44
T 11	15 27	18 12	5 10	19 36	1 13	9 1	1 24	15 43	1 9	20 42	0 33	18 34	0 37	19 55	0 38	21 33	0 39	12 23	17 6	0 16	0 14	3 1	13 20	0 44
W12	15 9	18 5	5 6	19 11	1 20	8 32	1 23	15 30	1 9	20 43	0 33	18 32	0 37	19 56	0 38	21 33	0 39	12 23	17 7	0 18	0 13	2 59	13 20	0 44
T 13	14 51	16 49	4 44	18 44	1 26	8 3	1 22	15 18	1 9	20 43	0 32	18 30	0 38	19 56	0 38	21 33	0 39	12 24	17 7	0 20	0 12	2 58	13 20	0 44
F 14	14 33	14 26	4 3	18 15	1 32	7 34	1 21	15 5	1 9	20 44	0 32	18 28	0 38	19 57	0 38	21 34	0 39	12 24	17 7	0 23	0 11	2 56	13 19	0 45
S 15	14 14	11 3	3 5	17 44	1 36	7 4	1 20	14 53	1 9	20 45	0 32	18 26	0 38	19 57	0 38	21 34	0 39	12 25	17 8	0 25	0 9	2 54	13 19	0 45
S 16	13 56	6 55	1 53	17 10	1 40	6 35	1 19	14 40	1 9	20 45	0 32	18 24	0 38	19 58	0 38	21 34	0 39	12 26	17 8	0 26	0 8	2 52	13 19	0 45
M17	13 37	2 21	0 33	16 35	1 42	6 5	1 17	14 27	1 9	20 46	0 32	18 22	0 38	19 58	0 38	21 34	0 39	12 26	17 8	0 26	0 7	2 50	13 19	0 45
T 18	13 18	2n19	0s48	15 58	1 44	5 35	1 16	14 15	1 9	20 46	0 31	18 20	0 38	19 59	0 38	21 34	0 39	12 27	17 8	0 26	0 6	2 49	13 19	0 45
W19	12 58	6 45	2 5	15 19	1 45	5 5	1 14	14 2	1 8	20 47	0 31	18 18	0 38	19 59	0 38	21 35	0 39	12 27	17 9	0 26	0 4	2 47	13 18	0 45
T 20	12 39	10 41	3 12	14 39	1 46	4 34	1 13	13 49	1 8	20 48	0 31	18 16	0 38	20 0	0 38	21 35	0 39	12 28	17 9	0 25	0 3	2 45	13 18	0 45
F 21	12 19	13 55	4 6	13 58	1 46	4 4	1 11	13 35	1 8	20 49	0 31	18 14	0 38	20 0	0 38	21 35	0 38	12 28	17 9	0 25	0 2	2 43	13 18	0 45
S 22	11 59	16 18	4 44	13 16	1 45	3 34	1 9	13 22	1 8	20 49	0 31	18 12	0 38	20 1	0 38	21 35	0 38	12 29	17 9	0 25	0 0	2 41	13 18	0 46
S 23	11 39	17 44	5 7	12 33	1 43	3 3	1 8	13 9	1 8	20 50	0 30	18 10	0 38	20 1	0 38	21 35	0 38	12 29	17 10	0 25	0n 1	2 40	13 17	0 46
M24	11 18	18 14	5 14	11 49	1 41	2 32	1 6	12 56	1 8	20 51	0 30	18 8	0 39	20 2	0 38	21 35	0 38	12 30	17 10	0 26	0 2	2 38	13 17	0 46
T 25	10 58	17 48	5 5	11 5	1 39	2 1	1 4	12 42	1 8	20 52	0 30	18 6	0 39	20 2	0 38	21 36	0 38	12 30	17 10	0 28	0 3	2 36	13 17	0 46
W26	10 37	16 31	4 42	10 20	1 36	1 30	1 2	12 29	1 8	20 53	0 30	18 4	0 39	20 3	0 38	21 36	0 38	12 31	17 10	0 30	0 5	2 34	13 16	0 46
T 27	10 16	14 30	4 6	9 34	1 32	0 59	1 0	12 15	1 8	20 54	0 30	18 2	0 39	20 3	0 38	21 36	0 38	12 32	17 11	0 31	0 6	2 32	13 16	0 46
F 28	9 55	11 53	3 19	8 48	1 28	0 28	0 58	12 1	1 8	20 55	0 29	18 0	0 39	20 4	0 38	21 36	0 38	12 32	17 11	0 33	0 7	2 30	13 15	0 46
S 29	9 34	8 47	2 25	8 2	1 24	0s 3	0 56	11 47	1 8	20 56	0 29	17 59	0 39	20 4	0 38	21 36	0 38	12 33	17 11	0 34	0 8	2 29	13 15	0 46
S 30	9 12	5 21	1 24	7 16	1 19	0 34	0 54	11 34	1 8	20 57	0 29	17 57	0 39	20 4	0 38	21 36	0 38	12 33	17 11	0 35	0 10	2 27	13 14	0 47
M31	8n51	1n43	0s20	6n29	1n14	1s 5	0n52	11n20	1n 8	20s58	0n29	17n55	0n39	20s 5	0s38	21s37	0n38	12s34	17s11	0n35	0n11	2n25	13n14	0s47

ASTRODIENST EPHEMERIS for the year 1829
geocentric

SEPTEMBER 1829

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 39 34	8 ^h 14'21"	6 ^h 41'	18 ^h 14'	5 ^h 55'	4 ^h 00'	6 ^h 44'	11 ^h 51'	3 ^h R 8	18 ^h R 2	8 ^h R 5	28 ^h 32'	29 ^h 29'	22 ^h 33'	7 ^h R19	T 1
W 2	22 43 30	9 ^h 12'30"	18 ^h 29'	20 ^h 0'	7 ^h 8'	4 ^h 39'	6 ^h 49'	11 ^h 58'	3 ^h ≈ 6	18 ^h 3 ^h 1	8 ^h Y 4	28 ^h 33'	29 ^h 26'	22 ^h 40'	7 ^h 817	W 2
T 3	22 47 27	10 ^h 10'40"	0 ^h 12'22"	21 ^h 44'	8 ^h 21'	5 ^h 17'	6 ^h 55'	12 ^h 5'	3 ^h 4'	18 ^h 0'	8 ^h 3'	28 ^h 34'	29 ^h 23'	22 ^h 46'	7 ^h 16	T 3
F 4	22 51 23	11 ^h 8'53"	12 ^h 24'	23 ^h 26'	9 ^h 34'	5 ^h 55'	7 ^h 0'	12 ^h 13'	3 ^h 3'	17 ^h 59'	8 ^h 2'	28 ^h 36'	29 ^h 20'	22 ^h 53'	7 ^h 15	F 4
S 5	22 55 20	12 ^h 7'06"	24 ^h 39'	25 ^h 8'	10 ^h 47'	6 ^h 33'	7 ^h 6'	12 ^h 20'	3 ^h 1'	17 ^h 59'	8 ^h 1'	28 ^h 37'	29 ^h 17'	22 ^h 59'	7 ^h 14	S 5
S 6	22 59 16	13 ^h 5'22"	7 ^h 11'	26 ^h 49'	12 ^h 0'	7 ^h 11'	7 ^h 12'	12 ^h 27'	2 ^h 59'	17 ^h 58'	8 ^h 0'	28 ^h 38'	29 ^h 13'	23 ^h 6'	7 ^h 12	S 6
M 7	23 3 13	14 ^h 3'38"	20 ^h 5'	28 ^h 28'	13 ^h 13'	7 ^h 50'	7 ^h 18'	12 ^h 34'	2 ^h 58'	17 ^h 57'	7 ^h 59'	28 ^h R38'	29 ^h 10'	23 ^h 13'	7 ^h 11	M 7
T 8	23 7 9	15 ^h 1'57"	3 ^h 33'23"	0 ^h 4 ^h 6'	14 ^h 26'	8 ^h 28'	7 ^h 24'	12 ^h 41'	2 ^h 56'	17 ^h 56'	7 ^h 58'	28 ^h 37'	29 ^h 7'	23 ^h 19'	7 ^h 9	T 8
W 9	23 11 6	16 ^h 0'17"	17 ^h 8'	1 ^h 43'	15 ^h 39'	9 ^h 6'	7 ^h 30'	12 ^h 48'	2 ^h 55'	17 ^h 56'	7 ^h 57'	28 ^h 36'	29 ^h 4'	23 ^h 26'	7 ^h 8	W 9
T 10	23 15 2	16 ^h 58'38"	1 ^h ≈20'	3 ^h 19'	16 ^h 52'	9 ^h 44'	7 ^h 37'	12 ^h 54'	2 ^h 53'	17 ^h 55'	7 ^h 56'	28 ^h 34'	29 ^h 1'	23 ^h 33'	7 ^h 6	T 10
F 11	23 18 59	17 ^h 57'01"	15 ^h 57'	4 ^h 54'	18 ^h 5'	10 ^h 23'	7 ^h 44'	13 ^h 1'	2 ^h 52'	17 ^h 55'	7 ^h 54'	28 ^h 33'	28 ^h 58'	23 ^h 39'	7 ^h 5	F 11
S 12	23 22 56	18 ^h 55'26"	0 ^h ≈55'	6 ^h 27'	19 ^h 17'	11 ^h 1'	7 ^h 50'	13 ^h 8'	2 ^h 50'	17 ^h 54'	7 ^h 53'	28 ^h 32'	28 ^h 54'	23 ^h 46'	7 ^h 3	S 12
S 13	23 26 52	19 ^h 53'52"	16 ^h 5'	8 ^h 0'	20 ^h 30'	11 ^h 39'	7 ^h 57'	13 ^h 15'	2 ^h 49'	17 ^h 53'	7 ^h 52'	28 ^h 31'	28 ^h 51'	23 ^h 53'	7 ^h 1	S 13
M14	23 30 49	20 ^h 52'21"	1 ^h Y18'	9 ^h 31'	21 ^h 43'	12 ^h 17'	8 ^h 4'	13 ^h 22'	2 ^h 47'	17 ^h 53'	7 ^h 51'	28 ^h D31'	28 ^h 48'	23 ^h 59'	6 ^h 59	M14
T 15	23 34 45	21 ^h 50'51"	16 ^h 25'	11 ^h 2'	22 ^h 56'	12 ^h 56'	8 ^h 12'	13 ^h 28'	2 ^h 46'	17 ^h 52'	7 ^h 50'	28 ^h 32'	28 ^h 45'	24 ^h 6'	6 ^h 57	T 15
W16	23 38 42	22 ^h 49'23"	1 ^h 817'	12 ^h 31'	24 ^h 9'	13 ^h 34'	8 ^h 19'	13 ^h 35'	2 ^h 45'	17 ^h 52'	7 ^h 49'	28 ^h 32'	28 ^h 42'	24 ^h 13'	6 ^h 56	W16
T 17	23 42 38	23 ^h 47'58"	15 ^h 47'	13 ^h 59'	25 ^h 21'	14 ^h 12'	8 ^h 26'	13 ^h 41'	2 ^h 44'	17 ^h 51'	7 ^h 48'	28 ^h 32'	28 ^h 39'	24 ^h 19'	6 ^h 54	T 17
F 18	23 46 35	24 ^h 46'35"	29 ^h 52'	15 ^h 27'	26 ^h 34'	14 ^h 51'	8 ^h 34'	13 ^h 48'	2 ^h 42'	17 ^h 51'	7 ^h 47'	28 ^h 33'	28 ^h 35'	24 ^h 26'	6 ^h 52	F 18
S 19	23 50 31	25 ^h 45'14"	13 ^h II31'	16 ^h 53'	27 ^h 47'	15 ^h 29'	8 ^h 42'	13 ^h 54'	2 ^h 41'	17 ^h 51'	7 ^h 46'	28 ^h 33'	28 ^h 32'	24 ^h 33'	6 ^h 50	S 19
S 20	23 54 28	26 ^h 43'55"	26 ^h 44'	18 ^h 18'	28 ^h 59'	16 ^h 7'	8 ^h 50'	14 ^h 1'	2 ^h 40'	17 ^h 50'	7 ^h 44'	28 ^h R33'	28 ^h 29'	24 ^h 39'	6 ^h 48	S 20
M21	23 58 25	27 ^h 42'38"	9 ^h 33'55'	19 ^h 41'	0 ^h 11.12	16 ^h 46'	8 ^h 58'	14 ^h 7'	2 ^h 39'	17 ^h 50'	7 ^h 43'	28 ^h R33'	28 ^h 26'	24 ^h 46'	6 ^h 46	M21
T 22	0 2 21	28 ^h 41'24"	22 ^h 6'	21 ^h 4'	1 ^h 25'	17 ^h 24'	9 ^h 6'	14 ^h 13'	2 ^h 38'	17 ^h 50'	7 ^h 42'	28 ^h D33'	28 ^h 23'	24 ^h 52'	6 ^h 43	T 22
W23	0 6 18	29 ^h 40'12"	4 ^h 12.21	22 ^h 26'	2 ^h 37'	18 ^h 2'	9 ^h 14'	14 ^h 19'	2 ^h 37'	17 ^h 49'	7 ^h 41'	28 ^h 33'	28 ^h 19'	24 ^h 59'	6 ^h 41	W23
T 24	0 10 14	0 ^h ≈39'02"	16 ^h 24'	23 ^h 46'	3 ^h 50'	18 ^h 41'	9 ^h 23'	14 ^h 26'	2 ^h 36'	17 ^h 49'	7 ^h 40'	28 ^h 33'	28 ^h 16'	25 ^h 6'	6 ^h 39	T 24
F 25	0 14 11	1 ^h 37'55"	28 ^h 19'	25 ^h 5'	5 ^h 2'	19 ^h 19'	9 ^h 31'	14 ^h 32'	2 ^h 35'	17 ^h 49'	7 ^h 39'	28 ^h 34'	28 ^h 13'	25 ^h 12'	6 ^h 37	F 25
S 26	0 18 7	2 ^h 36'49"	10 ^h 9'	26 ^h 22'	6 ^h 15'	19 ^h 57'	9 ^h 40'	14 ^h 38'	2 ^h 35'	17 ^h 49'	7 ^h 37'	28 ^h 34'	28 ^h 10'	25 ^h 19'	6 ^h 34	S 26
S 27	0 22 4	3 ^h 35'46"	21 ^h 56'	27 ^h 38'	7 ^h 27'	20 ^h 36'	9 ^h 49'	14 ^h 44'	2 ^h 34'	17 ^h 49'	7 ^h 36'	28 ^h 34'	28 ^h 7'	25 ^h 26'	6 ^h 32	S 27
M28	0 26 0	4 ^h 34'45"	3 ^h ≈43'	28 ^h 53'	8 ^h 40'	21 ^h 14'	9 ^h 58'	14 ^h 50'	2 ^h 33'	17 ^h 49'	7 ^h 35'	28 ^h R34'	28 ^h 4'	25 ^h 32'	6 ^h 30	M28
T 29	0 29 57	5 ^h 33'45"	15 ^h 33'	0 ^h 11.6	9 ^h 52'	21 ^h 53'	10 ^h 7'	14 ^h 56'	2 ^h 32'	17 ^h 49'	7 ^h 34'	28 ^h 34'	28 ^h 0'	25 ^h 39'	6 ^h 27	T 29
W30	0 33 54	6 ^h ≈32'48"	27 ^h ≈27'	1 ^h 11.18	11 ^h 11.5	22 ^h 31'	10 ^h ≈16'	15 ^h 11.1	2 ^h ≈32'	17 ^h D49'	7 ^h Y33'	28 ^h 33'	27 ^h 57'	25 ^h 46'	6 ^h ≈25	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	8n29	1s58	0n45	5n42	1n 9	1s36	0n49	11n 6	1n 7	20s59	0n29	17n53	0n39	20s 5	0s38	21s37	0n38	12s34	17s12	0n35	0n12	2n23	13n14	0s47	
W 2	8 7	5 35	1 48	4 56	1 3	2 7	0 47	10 52	1 7	21 0	0 28	17 51	0 40	20 6	0 38	21 37	0 38	12 35	17 12	0 35	0 13	2 21	13 13	0 47	
T 3	7 46	9 0	2 47	4 9	0 57	2 38	0 45	10 38	1 7	21 1	0 28	17 49	0 40	20 6	0 38	21 37	0 38	12 36	17 12	0 34	0 15	2 20	13 12	0 47	
F 4	7 23	12 5	3 40	3 23	0 51	3 9	0 42	10 23	1 7	21 2	0 28	17 47	0 40	20 6	0 38	21 37	0 38	12 36	17 12	0 34	0 16	2 18	13 12	0 47	
S 5	7 1	14 41	4 23	2 37	0 44	3 40	0 40	10 9	1 7	21 3	0 28	17 45	0 40	20 7	0 38	21 37	0 38	12 37	17 12	0 33	0 17	2 16	13 11	0 47	
S 6	6 39	16 40	4 55	1 51	0 38	4 11	0 37	9 55	1 7	21 4	0 28	17 43	0 40	20 7	0 38	21 37	0 38	12 37	17 12	0 33	0 19	2 14	13 11	0 47	
M 7	6 17	17 52	5 14	1 5	0 31	4 41	0 35	9 40	1 7	21 6	0 28	17 42	0 40	20 8	0 38	21 38	0 38	12 38	17 13	0 33	0 20	2 12	13 10	0 48	
T 8	5 54	18 9	5 16	0 20	0 24	5 12	0 32	9 26	1 7	21 7	0 27	17 40	0 40	20 8	0 38	21 38	0 38	12 38	17 13	0 33	0 21	2 10	13 10	0 48	
W 9	5 31	17 23	5 1	0s25	0 17	5 43	0 29	9 12	1 7	21 8	0 27	17 38	0 40	20 8	0 38	21 38	0 38	12 39	17 13	0 34	0 22	2 9	13 9	0 48	
T 10	5 9	15 32	4 27	1 10	0 10	6 13	0 27	8 57	1 6	21 9	0 27	17 36	0 41	20 9	0 38	21 38	0 38	12 39	17 13	0 34	0 24	2 7	13 8	0 48	
F 11	4 46	12 38	3 35	1 55	0 2	6 44	0 24	8 42	1 6	21 11	0 27	17 34	0 41	20 9	0 38	21 38	0 38	12 40	17 13	0 35	0 25	2 5	13 8	0 48	
S 12	4 23	8 51	2 28	2 39	0s 5	7 14	0 21	8 28	1 6	21 12	0 27	17 32	0 41	20 9	0 38	21 38	0 38	12 40	17 13	0 35	0 26	2 3	13 7	0 48	
S 13	4 0	4 26	1 9	3 22	0 13	7 44	0 18	8 13	1 6	21 13	0 26	17 31	0 41	20 10	0 38	21 38	0 38	12 41	17 13	0 35	0 27	2 1	13 6	0 48	
M14	3 37	0n17	0s15	4 5	0 20	8 14	0 15	7 58	1 6	21 14	0 26	17 29	0 41	20 10	0 38	21 38	0 38	12 42	17 14	0 35	0 29	2 0	13 6	0 48	
T 15	3 14	4 57	1 38	4 48	0 28	8 44	0 12	7 43	1 6	21 16	0 26	17 27	0 41	20 10	0 38	21 38	0 38	12 42	17 14	0 35	0 30	1 58	13 5	0 49	
W16	2 51	9 14	2 52	5 30	0 36	9 13	0 9	7 29	1 6	21 17	0 26	17 25	0 41	20 10	0 38	21 39	0 38	12 43	17 14	0 35	0 31	1 56	13 4	0 49	
T 17	2 28	12 51	3 54	6 11	0 43	9 43	0 6	7 14	1 6	21 18	0 26	17 23	0 41	20 11	0 38	21 39	0 38	12 43	17 14	0 35	0 32	1 54	13 3	0 49	
F 18	2 5	15 35	4 39	6 52	0 51	10 12	0 3	6 59	1 5	21 20	0 26	17 22	0 42	20 11	0 38	21 39	0 38	12 44	17 14	0 35	0 34	1 52	13 3	0 49	
S 19	1 41	17 21	5 7	7 33	0 59	10 41	0 0	6 44	1 5	21 21	0 25	17 20	0 42	20 11	0 38	21 39	0 38	12 44	17 14	0 35	0 35	1 50	13 2	0 49	
S 20	1 18	18 7	5 18	8 12	1 7	11 10	0s 3	6 29	1 5	21 23	0 25	17 18	0 42	20 11	0 38	21 39	0 38	12 45	17 14	0 35	0 36	1 49	13 1	0 49	
M21	0 55	17 55	5 12	8 51	1 14	11 38	0 6	6 14	1 5	21 24	0 25	17 17	0 42	20 12	0 38	21 39	0 38	12 45	17 14	0 35	0 37	1 47	13 0	0 49	
T 22	0 31	16 51	4 52	9 30	1 22	12 7	0 9	5 59	1 5	21 25	0 25	17 15	0 42	20 12	0 38	21 39	0 38	12 46	17 14	0 35	0 39	1 45	13 0	0 49	
W23	0 8	15 0	4 18	10 7	1 30	12 35	0 12	5 44	1 5	21 27	0 25	17 13	0 42	20 12	0 38	21 39	0 38	12 46	17 14	0 35	0 40	1 43	12 59	0 50	
T24	0s16	12 32	3 34	10 44	1 37	13 2	0 15	5 28	1 5	21 28	0 25	17 12	0 42	20 12	0 37	21 39	0 38	12 47	17 14	0 34	0 41	1 41	12 58	0 50	
F 25	0 39	9 33	2 41	11 20	1 44	13 30	0 18	5 13	1 4	21 30	0 24	17 10	0 42	20 12	0 37	21 39	0 37	12 47	17 14	0 34	0 43	1 39	12 57	0 50	
S 26	1 2	6 13	1 41	11 55	1 52	13 57	0 21	4 58	1 4	21 31	0 24	17 8	0 43	20 13	0 37	21 39	0 37	12 48	17 15	0 34	0 44	1 38	12 56	0 50	
S 27	1 26	2 38	0 37	12 30	1 59	14 24	0 25	4 43	1 4	21 33	0 24	17 7	0 43	20 13	0 37	21 39	0 37	12 48	17 15	0 34	0 45	1 36	12 55	0 50	
M28	1 49	1s 3	0n29	13 3	2 6	14 50	0 28	4 27	1 4	21 34	0 24	17 5	0 43	20 13	0 37	21 39	0 37	12 49	17 15	0 34	0 46	1 34	12 54	0 50	
T 29	2 13	4 42	1 33	13 35	2 13	15 17	0 31	4 12	1 4	21 36	0 24	17 3	0 43	20 13	0 37	21 39	0 37	12 49	17 15	0 34	0 48	1 32	12 53	0 50	
W30	2s36	8s11	2n34	14s 7	2s20	15s42	0s34	3n57	1n 4	21s37	0n24	17n 2	0n43	20s13	0s37	21s39	0n37	12s50	17s15	0n35	0n49	1n30	12n53	0s50	

ASTRODIENST EPHEMERIS for the year 1829
geocentric

OCTOBER 1829

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	0 37 50	7♌31°53	9♍27	2♊27	12♋17	23♌9	10♎25	15♏7	2°R31	17♐49	7°R32	28°R32	27♑54	25♒52	6°R22	T 1
F 2	0 41 47	8°31'00	21°37	3°35	13°29	23°48	10°34	15°13	2♌31	17°49	7°Y30	28♑31	27°51	25°59	6♒20	F 2
S 3	0 45 43	9°30'08	3♌58	4°41	14°42	24°26	10°44	15°18	2°30	17°49	7°29	28°29	27°48	26°6	6°17	S 3
S 4	0 49 40	10°29'19	16°34	5°45	15°54	25°5	10°53	15°24	2°30	17°49	7°28	28°28	27°45	26°12	6°15	S 4
M 5	0 53 36	11°28'31	29°27	6°46	17°6	25°43	11°3	15°29	2°29	17°49	7°27	28°27	27°41	26°19	6°12	M 5
T 6	0 57 33	12°27'45	12♐40	7°44	18°19	26°22	11°13	15°35	2°29	17°49	7°26	28°D27	27°38	26°25	6°9	T 6
W 7	1 1 29	13°27'01	26°15	8°40	19°31	27°0	11°23	15°40	2°29	17°50	7°25	28°27	27°35	26°32	6°7	W 7
T 8	1 5 26	14°26'18	10♌13	9°33	20°43	27°39	11°33	15°45	2°28	17°50	7°23	28°28	27°32	26°39	6°4	T 8
F 9	1 9 22	15°25'38	24°35	10°22	21°55	28°17	11°43	15°50	2°28	17°50	7°22	28°29	27°29	26°45	6°1	F 9
S 10	1 13 19	16°24'59	9♌18	11°8	23°7	28°56	11°53	15°55	2°28	17°50	7°21	28°30	27°25	26°52	5°59	S 10
S 11	1 17 16	17°24'21	24°17	11°50	24°19	29°34	12°4	16°0	2°28	17°51	7°20	28°R31	27°22	26°59	5°56	S 11
M12	1 21 12	18°23'46	9♑24	12°27	25°31	0♌13	12°14	16°5	2°D28	17°51	7°19	28°31	27°19	27°5	5°53	M12
T 13	1 25 9	19°23'13	24°31	12°59	26°43	0°51	12°24	16°10	2°28	17°52	7°18	28°30	27°16	27°12	5°50	T 13
W14	1 29 5	20°22'42	9♒29	13°26	27°55	1°30	12°35	16°15	2°28	17°52	7°16	28°27	27°13	27°19	5°47	W14
T 15	1 33 2	21°22'13	24°8	13°47	29°7	2°8	12°46	16°19	2°28	17°52	7°15	28°24	27°10	27°25	5°44	T 15
F 16	1 36 58	22°21'46	8♐24	14°2	0♌19	2°47	12°57	16°24	2°28	17°53	7°14	28°21	27°6	27°32	5°42	F 16
S 17	1 40 55	23°21'22	22°12	14°10	1°30	3°25	13°7	16°29	2°28	17°54	7°13	28°18	27°3	27°39	5°39	S 17
S 18	1 44 51	24°21'00	5♐33	14°R10	2°42	4°4	13°18	16°33	2°29	17°54	7°12	28°15	27°0	27°45	5°36	S 18
M19	1 48 48	25°20'40	18°27	14°3	3°54	4°43	13°29	16°37	2°29	17°55	7°11	28°14	26°57	27°52	5°33	M19
T 20	1 52 45	26°20'22	0♑58	13°47	5°6	5°21	13°41	16°42	2°29	17°55	7°10	28°D14	26°54	27°58	5°30	T 20
W21	1 56 41	27°20'07	13°12	13°22	6°17	6°0	13°52	16°46	2°30	17°56	7°9	28°15	26°50	28°5	5°27	W21
T 22	2 0 38	28°19'54	25°11	12°49	7°29	6°39	14°3	16°50	2°30	17°57	7°8	28°16	26°47	28°12	5°24	T 22
F 23	2 4 34	29°19'43	7♑2	12°6	8°40	7°17	14°15	16°54	2°31	17°58	7°6	28°18	26°44	28°18	5°21	F 23
S 24	2 8 31	0♍19°34	18°49	11°15	9°52	7°56	14°26	16°58	2°31	17°58	7°5	28°20	26°41	28°25	5°18	S 24
S 25	2 12 27	1°19'28	0♌36	10°15	11°3	8°35	14°38	17°2	2°32	17°59	7°4	28°R20	26°38	28°32	5°15	S 25
M26	2 16 24	2°19'23	12°26	9°9	12°15	9°13	14°49	17°5	2°32	18°0	7°3	28°19	26°35	28°38	5°12	M26
T 27	2 20 20	3°19'20	24°21	7°57	13°26	9°52	15°1	17°9	2°33	18°1	7°2	28°16	26°31	28°45	5°9	T 27
W28	2 24 17	4°19'20	6♍25	6°41	14°37	10°31	15°13	17°12	2°34	18°2	7°1	28°12	26°28	28°52	5°6	W28
T 29	2 28 14	5°19'21	18°39	5°24	15°49	11°10	15°25	17°16	2°35	18°3	7°0	28°6	26°25	28°58	5°3	T 29
F 30	2 32 10	6°19'25	1♌3	4°7	17°0	11°48	15°37	17°19	2°36	18°4	6°59	27°59	26°22	29°5	5°0	F 30
S 31	2 36 7	7♍19°30	13♌39	2♍53	18♌11	12♌27	15♌49	17♏22	2♌37	18♐5	6°Y58	27♑51	26♒19	29♒12	4♒57	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	decl	lat	
T 1	2s59	11s22	3n28	14s37	2s26	16s 8	0s37	3n41	1n 3	21s38	0n23	17n 0	0n43	20s13	0s37	21s39	0n37	12s50	17s15	0n35	0n50	1n29	12n52	0s50		
F 2	3 23	14 6	4 14	15 7	2 32	16 33	0 41	3 26	1 3	21 40	0 23	16 59	0 43	20 13	0 37	21 39	0 37	12 51	17 15	0 36	0 51	1 27	12 51	0 51		
S 3	3 46	16 14	4 49	15 35	2 39	16 58	0 44	3 10	1 3	21 41	0 23	16 57	0 44	20 13	0 37	21 39	0 37	12 51	17 15	0 36	0 53	1 25	12 50	0 51		
S 4	4 9	17 38	5 10	16 2	2 44	17 22	0 47	2 55	1 3	21 43	0 23	16 56	0 44	20 13	0 37	21 39	0 37	12 51	17 15	0 37	0 54	1 23	12 49	0 51		
M 5	4 33	18 10	5 17	16 27	2 50	17 46	0 50	2 40	1 3	21 44	0 23	16 54	0 44	20 14	0 37	21 39	0 37	12 52	17 15	0 37	0 55	1 21	12 48	0 51		
T 6	4 56	17 45	5 7	16 51	2 55	18 9	0 54	2 24	1 2	21 46	0 23	16 53	0 44	20 14	0 37	21 39	0 37	12 52	17 15	0 37	0 56	1 19	12 47	0 51		
W 7	5 19	16 19	4 41	17 14	2 59	18 32	0 57	2 9	1 2	21 48	0 23	16 51	0 44	20 14	0 37	21 39	0 37	12 53	17 15	0 37	0 58	1 18	12 46	0 51		
T 8	5 42	13 54	3 57	17 35	3 4	18 55	1 0	1 53	1 2	21 49	0 22	16 50	0 44	20 14	0 37	21 39	0 37	12 53	17 14	0 37	0 59	1 16	12 45	0 51		
F 9	6 5	10 33	2 57	17 54	3 7	19 17	1 3	1 38	1 2	21 51	0 22	16 49	0 45	20 14	0 37	21 39	0 37	12 54	17 14	0 36	1 0	1 14	12 44	0 51		
S 10	6 28	6 29	1 44	18 12	3 11	19 38	1 6	1 22	1 2	21 52	0 22	16 47	0 45	20 14	0 37	21 39	0 37	12 54	17 14	0 36	1 2	1 12	12 43	0 51		
S 11	6 50	1 55	0 23	18 27	3 13	19 59	1 10	1 7	1 1	21 54	0 22	16 46	0 45	20 14	0 37	21 39	0 37	12 54	17 14	0 35	1 3	1 10	12 42	0 52		
M12	7 13	2n49	1s 0	18 41	3 15	20 20	1 13	0 51	1 1	21 55	0 22	16 45	0 45	20 14	0 37	21 39	0 37	12 55	17 14	0 36	1 4	1 8	12 41	0 52		
T 13	7 36	7 21	2 19	18 52	3 16	20 40	1 16	0 36	1 1	21 57	0 22	16 43	0 45	20 14	0 37	21 39	0 37	12 55	17 14	0 36	1 5	1 7	12 40	0 52		
W14	7 58	11 23	3 27	19 0	3 17	21 0	1 19	0 20	1 1	21 58	0 22	16 42	0 45	20 14	0 37	21 39	0 37	12 55	17 14	0 37	1 7	1 5	12 39	0 52		
T 15	8 20	14 36	4 21	19 6	3 16	21 19	1 22	0 4	1 1	22 0	0 21	16 41	0 45	20 14	0 37	21 39	0 37	12 56	17 14	0 38	1 8	1 3	12 38	0 52		
F 16	8 43	16 51	4 56	19 9	3 14	21 37	1 25	0s11	1 0	22 1	0 21	16 40	0 46	20 13	0 37	21 39	0 37	12 56	17 14	0 39	1 9	1 1	12 37	0 52		
S 17	9 5	18 1	5 13	19 9	3 11	21 55	1 28	0 27	1 0	22 3	0 21	16 38	0 46	20 13	0 37	21 39	0 37	12 57	17 14	0 41	1 10	0 59	12 36	0 52		
S 18	9 27	18 8	5 12	19 5	3 7	22 12	1 31	0 42	1 0	22 4	0 21	16 37	0 46	20 13	0 37	21 39	0 37	12 57	17 14	0 42	1 12	0 57	12 35	0 52		
M19	9 49	17 18	4 56	18 58	3 2	22 29	1 34	0 58	1 0	22 6	0 21	16 36	0 46	20 13	0 37	21 39	0 37	12 57	17 14	0 42	1 13	0 56	12 33	0 52		
T 20	10 10	15 39	4 25	18 46	2 55	22 45	1 37	1 13	0 59	22 7	0 21	16 35	0 46	20 13	0 37	21 39	0 37	12 58	17 13	0 42	1 14	0 54	12 32	0 53		
W21	10 32	13 18	3 43	18 30	2 46	23 1	1 40	1 29	0 59	22 9	0 21	16 34	0 46	20 13	0 37	21 39	0 37	12 58	17 13	0 42	1 15	0 52	12 31	0 53		
T 22	10 53	10 26	2 52	18 10	2 36	23 16	1 43	1 44	0 59	22 10	0 20	16 33	0 47	20 13	0 37	21 39	0 37	12 58	17 13	0 41	1 17	0 50	12 30	0 53		
F 23	11 15	7 10	1 54	17 46	2 24	23 30	1 45	2 0	0 59	22 12	0 20	16 32	0 47	20 13	0 37	21 39	0 37	12 58	17 13	0 40	1 18	0 48	12 29	0 53		
S 24	11 36	3 38	0 52	17 17	2 10	23 44	1 48	2 15	0 58	22 13	0 20	16 31	0 47	20 13	0 37	21 39	0 37	12 59	17 13	0 40	1 19	0 46	12 28	0 53		
S 25	11 57	0s 3	0n12	16 43	1 55	23 57	1 51	2 31	0 58	22 14	0 20	16 30	0 47	20 12	0 37	21 39	0 37	12 59	17 13	0 40	1 20	0 45	12 27	0 53		
M26	12 17	3 44	1 16	16 6	1 37	24 9	1 53	2 46	0 58	22 16	0 20	16 29	0 47	20 12	0 37	21 39	0 37	12 59	17 13	0 40	1 22	0 43	12 26	0 53		
T 27	12 38	7 19	2 17	15 25	1 19	24 21	1 56	3 2	0 58	22 17	0 20	16 28	0 47	20 12	0 37	21 39	0 36	12 59	17 12	0 41	1 23	0 41	12 25	0 53		
W28	12 58	10 38	3 13	14 41	0 59	24 32	1 59	3 17	0 57	22 19	0 20	16 27	0 48	20 12	0 37	21 38	0 36	13 0	17 12	0 43	1 24	0 39	12 24	0 53		
T 29	13 18	13 32	4 0	13 56	0 39	24 42	2 1	3 33	0 57	22 20	0 19	16 26	0 48	20 12	0 37	21 38	0 36	13 0	17 12	0 46	1 26	0 37	12 23	0 53		
F 30	13 38	15 52	4 37	13 11	0 18	24 52	2 3	3 48	0 57	22 22	0 19	16 25	0 48	20 11	0 37	21 38	0 36	13 0	17 12	0 48	1 27	0 35	12 22	0 53		
S 31	13s58	17s29	5n 1	12s27	0n 3	25s 1	2s 6	4s 3	0n57	22s23	0n19	16n24	0n48	20s11	0s37	21s38	0n36	13s 0	17s12	0n51	1n28	0n34	12n21	0s54		

ASTRODIENST EPHEMERIS for the year 1829

geocentric

NOVEMBER 1829

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 40 3	8♉19'37	26♊27	1°R45	19♊22	13♉6	16♊1	17♉25	2♉37	18♉6	6°R57	27°R45	26♉16	29♉18	4°R54	S 1
M 2	2 44 0	9°19'45	9♉28	0♉44	20°33	13°45	16°13	17°28	2°39	18°7	6°Y56	27♉39	26°12	29°25	4♉51	M 2
T 3	2 47 56	10°19'55	22°44	29♉53	21°44	14°24	16°25	17°31	2°40	18°8	6°55	27°36	26°9	29°31	4°48	T 3
W 4	2 51 53	11°20'07	6♉16	29°12	22°55	15°2	16°37	17°34	2°41	18°9	6°54	27°D34	26°6	29°38	4°45	W 4
T 5	2 55 49	12°20'20	20°4	28°43	24°5	15°41	16°50	17°37	2°42	18°10	6°53	27°35	26°3	29°45	4°42	T 5
F 6	2 59 46	13°20'34	4♉9	28°25	25°16	16°20	17°2	17°40	2°43	18°11	6°52	27°36	26°0	29°51	4°39	F 6
S 7	3 3 43	14°20'50	18°31	28°D18	26°27	16°59	17°15	17°42	2°44	18°13	6°52	27°37	25°56	29°58	4°36	S 7
S 8	3 7 39	15°21'08	3°Y7	28°23	27°37	17°38	17°27	17°44	2°46	18°14	6°51	27°R37	25°53	0♉5	4°33	S 8
M 9	3 11 36	16°21'27	17°54	28°39	28°48	18°17	17°40	17°47	2°47	18°15	6°50	27°35	25°50	0°11	4°31	M 9
T 10	3 15 32	17°21'47	2♉44	29°4	29°58	18°55	17°52	17°49	2°48	18°16	6°49	27°31	25°47	0°18	4°28	T 10
W11	3 19 29	18°22'09	17°31	29°39	1♉9	19°34	18°5	17°51	2°50	18°18	6°48	27°25	25°44	0°25	4°25	W11
T 12	3 23 25	19°22'33	2♉5	0♉21	2°19	20°13	18°18	17°53	2°51	18°19	6°47	27°17	25°41	0°31	4°22	T 12
F 13	3 27 22	20°22'58	16°21	1°11	3°29	20°52	18°31	17°55	2°53	18°21	6°46	27°8	25°37	0°38	4°19	F 13
S 14	3 31 18	21°23'26	0♉13	2°8	4°39	21°31	18°43	17°57	2°55	18°22	6°46	26°59	25°34	0°45	4°16	S 14
S 15	3 35 15	22°23'55	13°38	3°9	5°49	22°10	18°56	17°58	2°56	18°23	6°45	26°52	25°31	0°51	4°13	S 15
M16	3 39 12	23°24'26	26°37	4°16	6°59	22°49	19°9	18°0	2°58	18°25	6°44	26°46	25°28	0°58	4°11	M16
T 17	3 43 8	24°24'58	9♉12	5°27	8°8	23°28	19°22	18°1	3°0	18°26	6°43	26°42	25°25	1°5	4°8	T 17
W18	3 47 5	25°25'33	21°27	6°41	9°18	24°7	19°35	18°3	3°1	18°28	6°43	26°D41	25°22	1°11	4°5	W18
T 19	3 51 1	26°26'09	3♉27	7°59	10°27	24°46	19°48	18°4	3°3	18°29	6°42	26°41	25°18	1°18	4°2	T 19
F 20	3 54 58	27°26'47	15°18	9°19	11°37	25°25	20°1	18°5	3°5	18°31	6°41	26°42	25°15	1°24	4°0	F 20
S 21	3 58 54	28°27'26	27°5	10°41	12°46	26°4	20°15	18°6	3°7	18°33	6°41	26°R42	25°12	1°31	3°57	S 21
S 22	4 2 51	29°28'07	8♉53	12°6	13°55	26°43	20°28	18°7	3°9	18°34	6°40	26°42	25°9	1°38	3°54	S 22
M23	4 6 47	0♉28'50	20°46	13°31	15°4	27°22	20°41	18°8	3°11	18°36	6°39	26°39	25°6	1°44	3°52	M23
T 24	4 10 44	1°29'35	2♉49	14°59	16°13	28°2	20°54	18°8	3°13	18°38	6°39	26°33	25°2	1°51	3°49	T 24
W25	4 14 41	2°30'20	15°4	16°27	17°22	28°41	21°8	18°9	3°15	18°39	6°38	26°24	24°59	1°58	3°47	W25
T 26	4 18 37	3°31'08	27°32	17°56	18°31	29°20	21°21	18°9	3°17	18°41	6°38	26°14	24°56	2°4	3°44	T 26
F 27	4 22 34	4°31'56	10♉15	19°26	19°39	29°59	21°34	18°10	3°19	18°43	6°37	26°1	24°53	2°11	3°42	F 27
S 28	4 26 30	5°32'46	23°12	20°56	20°48	0♉38	21°48	18°10	3°22	18°44	6°37	25°49	24°50	2°18	3°39	S 28
S 29	4 30 27	6°33'37	6♉21	22°27	21°56	1°17	22°1	18°R10	3°24	18°46	6°36	25°37	24°47	2°24	3°37	S 29
M30	4 34 23	7♉34'29	19♉42	23♉59	23♉4	1♉57	22♉15	18♉10	3♉26	18♉48	6°Y36	25♉27	24♉43	2♉31	3♉34	M30

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	14s18	18s15	5n10	11s44	0n23	25s10	2s 8	4s19	0n56	22s24	0n19	16n23	0n48	20s11	0s37	21s38	0n36	13s 1	17s12	0n54	1n29	0n32	12n19	0s54	
M 2	14 37	18 5	5 3	11 6	0 42	25 17	2 10	4 34	0 56	22 26	0 19	16 23	0 48	20 11	0 37	21 38	0 36	13 1	17 11	0 56	1 31	0 30	12 18	0 54	
T 3	14 56	16 55	4 41	10 31	0 59	25 24	2 12	4 49	0 56	22 27	0 19	16 22	0 49	20 10	0 36	21 38	0 36	13 1	17 11	0 57	1 32	0 28	12 17	0 54	
W 4	15 15	14 48	4 2	10 1	1 15	25 30	2 14	5 5	0 55	22 28	0 19	16 21	0 49	20 10	0 36	21 38	0 36	13 1	17 11	0 58	1 33	0 26	12 16	0 54	
T 5	15 33	11 49	3 9	9 38	1 30	25 36	2 16	5 20	0 55	22 30	0 19	16 21	0 49	20 10	0 36	21 38	0 36	13 1	17 11	0 58	1 34	0 24	12 15	0 54	
F 6	15 51	8 5	2 4	9 20	1 42	25 41	2 18	5 35	0 55	22 31	0 19	16 20	0 49	20 10	0 36	21 37	0 36	13 1	17 11	0 57	1 36	0 23	12 14	0 54	
S 7	16 9	3 48	0 49	9 7	1 53	25 45	2 20	5 50	0 55	22 32	0 18	16 19	0 49	20 9	0 36	21 37	0 36	13 2	17 10	0 57	1 37	0 21	12 13	0 54	
S 8	16 27	0n47	0s30	9 1	2 1	25 48	2 22	6 5	0 54	22 34	0 18	16 19	0 50	20 9	0 36	21 37	0 36	13 2	17 10	0 57	1 38	0 19	12 12	0 54	
M 9	16 45	5 22	1 47	9 0	2 8	25 51	2 24	6 20	0 54	22 35	0 18	16 18	0 50	20 9	0 36	21 37	0 36	13 2	17 10	0 58	1 39	0 17	12 11	0 54	
T 10	17 2	9 39	2 58	9 4	2 14	25 53	2 25	6 35	0 54	22 36	0 18	16 18	0 50	20 8	0 36	21 37	0 36	13 2	17 10	0 59	1 41	0 15	12 10	0 54	
W11	17 19	13 18	3 56	9 13	2 17	25 54	2 27	6 50	0 53	22 38	0 18	16 17	0 50	20 8	0 36	21 37	0 36	13 2	17 9	1 2	1 42	0 13	12 9	0 54	
T 12	17 35	16 4	4 38	9 25	2 20	25 54	2 28	7 5	0 53	22 39	0 18	16 17	0 50	20 7	0 36	21 37	0 36	13 2	17 9	1 5	1 43	0 12	12 8	0 54	
F 13	17 51	17 46	5 1	9 42	2 21	25 54	2 29	7 20	0 53	22 40	0 18	16 17	0 50	20 7	0 36	21 36	0 36	13 2	17 9	1 8	1 44	0 10	12 7	0 55	
S 14	18 7	18 22	5 6	10 1	2 21	25 53	2 31	7 35	0 52	22 41	0 18	16 16	0 51	20 7	0 36	21 36	0 36	13 2	17 9	1 12	1 46	0 8	12 6	0 55	
S 15	18 23	17 53	4 54	10 23	2 20	25 52	2 32	7 50	0 52	22 42	0 17	16 16	0 51	20 6	0 36	21 36	0 36	13 2	17 8	1 15	1 47	0 6	12 5	0 55	
M16	18 38	16 29	4 26	10 48	2 17	25 49	2 33	8 5	0 52	22 44	0 17	16 15	0 51	20 6	0 36	21 36	0 36	13 2	17 8	1 17	1 48	0 4	12 4	0 55	
T 17	18 53	14 19	3 47	11 14	2 15	25 46	2 34	8 20	0 51	22 45	0 17	16 15	0 51	20 5	0 36	21 36	0 36	13 3	17 8	1 19	1 49	0 2	12 3	0 55	
W18	19 8	11 34	2 57	11 42	2 11	25 42	2 35	8 34	0 51	22 46	0 17	16 15	0 51	20 5	0 36	21 36	0 36	13 3	17 8	1 19	1 51	0 1	12 2	0 55	
T 19	19 22	8 22	2 1	12 11	2 7	25 38	2 35	8 49	0 51	22 47	0 17	16 15	0 52	20 5	0 36	21 35	0 36	13 3	17 7	1 19	1 52	0s1	12 1	0 55	
F 20	19 36	4 52	1 1	12 41	2 2	25 32	2 36	9 3	0 50	22 48	0 17	16 15	0 52	20 4	0 36	21 35	0 36	13 3	17 7	1 19	1 53	0 3	12 0	0 55	
S 21	19 50	1 12	0n2	13 11	1 57	25 26	2 36	9 18	0 50	22 49	0 17	16 14	0 52	20 4	0 36	21 35	0 36	13 3	17 7	1 19	1 55	0 5	11 59	0 55	
S 22	20 3	2s32	1 5	13 42	1 52	25 20	2 37	9 32	0 50	22 50	0 17	16 14	0 52	20 3	0 36	21 35	0 36	13 3	17 6	1 19	1 56	0 7	11 58	0 55	
M23	20 16	6 11	2 5	14 14	1 46	25 12	2 37	9 47	0 49	22 51	0 17	16 14	0 52	20 3	0 36	21 35	0 36	13 3	17 6	1 20	1 57	0 9	11 57	0 55	
T 24	20 29	9 38	3 0	14 45	1 40	25 4	2 37	10 1	0 49	22 52	0 16	16 14	0 53	20 2	0 36	21 34	0 36	13 3	17 6	1 22	1 58	0 11	11 56	0 55	
W25	20 41	12 44	3 48	15 17	1 33	24 56	2 37	10 15	0 49	22 53	0 16	16 14	0 53	20 2	0 36	21 34	0 36	13 3	17 5	1 26	2 0	0 12	11 55	0 55	
T 26	20 52	15 19	4 26	15 48	1 27	24 46	2 37	10 30	0 48	22 54	0 16	16 14	0 53	20 1	0 36	21 34	0 36	13 3	17 5	1 30	2 1	0 14	11 54	0 55	
F 27	21 4	17 12	4 51	16 19	1 20	24 36	2 37	10 44	0 48	22 55	0 16	16 14	0 53	20 1	0 36	21 34	0 36	13 3	17 5	1 35	2 2	0 16	11 53	0 55	
S 28	21 15	18 16	5 2	16 50	1 13	24 26	2 37	10 58	0 48	22 56	0 16	16 15	0 53	20 0	0 36	21 34	0 36	13 3	17 5	1 40	2 3	0 18	11 52	0 56	
S 29	21 25	18 22	4 57	17 20	1 6	24 14	2 36	11 12	0 47	22 57	0 16	16 15	0 53	20 0	0 36	21 33	0 36	13 3	17 4	1 45	2 5	0 20	11 52	0 56	
M30	21s35	17s28	4n36	17s50	0n59	24s 3	2s36	11s26	0n47	22s58	0n16	16n15	0n54	19s59	0s36	21s33	0n36	13s 2	17s 4	1n49	2n 6	0s22	11n51	0s56	

ASTRODIENST EPHEMERIS for the year 1829
geocentric

DECEMBER 1829

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 38 20	8♂35'22	3♂13	25♂30	24♂12	2♂36	22♂28	18°R10	3♂29	18♂50	6°R35	25°R19	24♂40	2♂38	3°R32	T 1
W 2	4 42 16	9°36'16	16°53	27° 2	25°20	3°15	22°42	18♂10	3°31	18°52	6°Y35	25♂15	24°37	2°44	3♂30	W 2
T 3	4 46 13	10°37'10	0♂43	28°35	26°27	3°54	22°55	18° 9	3°33	18°54	6°34	25°13	24°34	2°51	3°28	T 3
F 4	4 50 10	11°38'05	14°41	0♂7	27°35	4°33	23° 9	18° 9	3°36	18°56	6°34	25°D13	24°31	2°57	3°25	F 4
S 5	4 54 6	12°39'01	28°47	1°40	28°42	5°13	23°22	18° 8	3°38	18°57	6°33	25°R13	24°28	3° 4	3°23	S 5
S 6	4 58 3	13°39'58	13°Y 2	3°13	29°49	5°52	23°36	18° 8	3°41	18°59	6°33	25°12	24°24	3°11	3°21	S 6
M 7	5 1 59	14°40'55	27°23	4°45	0♂56	6°31	23°49	18° 7	3°43	19° 1	6°33	25° 9	24°21	3°17	3°19	M 7
T 8	5 5 56	15°41'53	11♂46	6°18	2° 3	7°10	24° 3	18° 6	3°46	19° 3	6°32	25° 3	24°18	3°24	3°17	T 8
W 9	5 9 52	16°42'52	26° 8	7°51	3° 9	7°50	24°17	18° 5	3°49	19° 5	6°32	24°54	24°15	3°31	3°15	W 9
T 10	5 13 49	17°43'51	10♂22	9°25	4°15	8°29	24°30	18° 4	3°51	19° 7	6°32	24°42	24°12	3°37	3°13	T 10
F 11	5 17 45	18°44'52	24°23	10°58	5°21	9° 8	24°44	18° 2	3°54	19° 9	6°32	24°30	24° 8	3°44	3°11	F 11
S 12	5 21 42	19°45'53	8♂6	12°31	6°27	9°48	24°58	18° 1	3°57	19°11	6°31	24°17	24° 5	3°51	3° 9	S 12
S 13	5 25 39	20°46'55	21°26	14° 5	7°32	10°27	25°12	18° 0	3°59	19°13	6°31	24° 5	24° 2	3°57	3° 8	S 13
M14	5 29 35	21°47'58	4♂24	15°38	8°37	11° 6	25°25	17°58	4° 2	19°15	6°31	23°56	23°59	4° 4	3° 6	M14
T 15	5 33 32	22°49'01	17° 0	17°12	9°42	11°46	25°39	17°56	4° 5	19°17	6°31	23°49	23°56	4°11	3° 4	T 15
W16	5 37 28	23°50'06	29°17	18°46	10°47	12°25	25°53	17°55	4° 8	19°20	6°31	23°45	23°53	4°17	3° 3	W16
T 17	5 41 25	24°51'11	11♂18	20°20	11°51	13° 5	26° 6	17°53	4°11	19°22	6°31	23°44	23°49	4°24	3° 1	T 17
F 18	5 45 21	25°52'17	23°10	21°54	12°55	13°44	26°20	17°51	4°14	19°24	6°31	23°43	23°46	4°31	2°59	F 18
S 19	5 49 18	26°53'24	4♂58	23°28	13°59	14°23	26°34	17°49	4°17	19°26	6°30	23°43	23°43	4°37	2°58	S 19
S 20	5 53 14	27°54'31	16°46	25° 2	15° 3	15° 3	26°48	17°46	4°20	19°28	6°30	23°42	23°40	4°44	2°57	S 20
M21	5 57 11	28°55'40	28°42	26°37	16° 6	15°42	27° 1	17°44	4°23	19°30	6°D30	23°39	23°37	4°50	2°55	M21
T 22	6 1 8	29°56'49	10♂49	28°12	17° 9	16°22	27°15	17°42	4°26	19°32	6°30	23°33	23°33	4°57	2°54	T 22
W23	6 5 4	0♂57'58	23°11	29°47	18°11	17° 1	27°29	17°39	4°29	19°35	6°30	23°25	23°30	5° 4	2°53	W23
T 24	6 9 1	1°59'09	5♂52	1♂22	19°13	17°41	27°43	17°37	4°32	19°37	6°30	23°14	23°27	5°10	2°51	T 24
F 25	6 12 57	3° 0'19	18°51	2°58	20°15	18°20	27°56	17°34	4°35	19°39	6°31	23° 1	23°24	5°17	2°50	F 25
S 26	6 16 54	4° 1'30	2♂9	4°34	21°17	19° 0	28°10	17°31	4°38	19°41	6°31	22°47	23°21	5°24	2°49	S 26
S 27	6 20 50	5° 2'41	15°43	6°10	22°18	19°40	28°24	17°28	4°41	19°43	6°31	22°35	23°18	5°30	2°48	S 27
M28	6 24 47	6° 3'53	29°30	7°46	23°18	20°19	28°38	17°25	4°44	19°46	6°31	22°24	23°14	5°37	2°47	M28
T 29	6 28 43	7° 5'04	13♂26	9°23	24°18	20°59	28°51	17°22	4°47	19°48	6°31	22°16	23°11	5°44	2°46	T 29
W30	6 32 40	8° 6'15	27°28	11° 0	25°18	21°38	29° 5	17°19	4°51	19°50	6°31	22°11	23° 8	5°50	2°45	W30
T 31	6 36 37	9♂7'26	11♂33	12♂38	26♂17	22♂18	29♂19	17♂16	4♂54	19♂52	6°Y32	22♂9	23♂5	5♂57	2♂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	decl lat	decl lat
T 1	21s45	15s34	3n59	18s19	0n52	23s50	2s35	11s39	0n46	22s59	0n16	16n15	0n54	19s58	0s36	21s33	0n36
W 2	21 55	12 47	3 8	18 47	0 45	23 37	2 34	11 53	0 46	23 0	0 16	16 15	0 54	19 58	0 36	21 33	0 36
T 3	22 3	9 16	2 6	19 15	0 38	23 23	2 33	12 7	0 46	23 1	0 16	16 16	0 54	19 57	0 36	21 32	0 35
F 4	22 12	5 11	0 56	19 42	0 30	23 9	2 32	12 20	0 45	23 1	0 15	16 16	0 54	19 57	0 36	21 32	0 35
S 5	22 20	0 46	0s19	20 8	0 23	22 54	2 31	12 34	0 45	23 2	0 15	16 16	0 55	19 56	0 36	21 32	0 35
S 6	22 28	3n43	1 33	20 33	0 16	22 38	2 30	12 47	0 44	23 3	0 15	16 17	0 55	19 56	0 36	21 32	0 35
M 7	22 35	8 2	2 41	20 57	0 9	22 22	2 28	13 1	0 44	23 4	0 15	16 17	0 55	19 55	0 36	21 31	0 35
T 8	22 41	11 53	3 40	21 21	0 2	22 6	2 26	13 14	0 44	23 4	0 15	16 18	0 55	19 54	0 36	21 31	0 35
W 9	22 48	15 1	4 24	21 43	0s 5	21 49	2 25	13 27	0 43	23 5	0 15	16 18	0 55	19 54	0 36	21 31	0 35
T 10	22 54	17 13	4 51	22 4	0 12	21 31	2 23	13 40	0 43	23 6	0 15	16 19	0 56	19 53	0 36	21 31	0 35
F 11	22 59	18 20	5 0	22 25	0 19	21 13	2 21	13 53	0 42	23 6	0 15	16 19	0 56	19 52	0 36	21 30	0 35
S 12	23 4	18 21	4 52	22 44	0 25	20 54	2 18	14 6	0 42	23 7	0 15	16 20	0 56	19 52	0 36	21 30	0 35
S 13	23 8	17 21	4 27	23 2	0 32	20 35	2 16	14 19	0 41	23 8	0 15	16 20	0 56	19 51	0 36	21 30	0 35
M14	23 12	15 27	3 50	23 19	0 38	20 16	2 13	14 31	0 41	23 8	0 14	16 21	0 56	19 50	0 36	21 30	0 35
T 15	23 16	12 52	3 1	23 35	0 44	19 56	2 11	14 44	0 40	23 9	0 14	16 22	0 57	19 50	0 36	21 29	0 35
W16	23 19	9 46	2 6	23 49	0 51	19 36	2 8	14 57	0 40	23 9	0 14	16 23	0 57	19 49	0 36	21 29	0 35
T 17	23 22	6 19	1 5	24 3	0 56	19 15	2 5	15 9	0 39	23 10	0 14	16 23	0 57	19 48	0 36	21 29	0 35
F 18	23 24	2 40	0 3	24 15	1 2	18 53	2 2	15 21	0 39	23 10	0 14	16 24	0 57	19 48	0 36	21 28	0 35
S 19	23 25	1s 4	0n59	24 26	1 8	18 32	1 58	15 33	0 39	23 11	0 14	16 25	0 57	19 47	0 36	21 28	0 35
S 20	23 27	4 46	1 59	24 35	1 13	18 10	1 55	15 45	0 38	23 11	0 14	16 26	0 57	19 46	0 36	21 28	0 35
M21	23 27	8 19	2 54	24 44	1 19	17 48	1 51	15 57	0 38	23 12	0 14	16 27	0 58	19 45	0 36	21 27	0 35
T 22	23 28	11 34	3 42	24 50	1 24	17 25	1 47	16 9	0 37	23 12	0 14	16 28	0 58	19 45	0 36	21 27	0 35
W23	23 27	14 23	4 21	24 56	1 29	17 2	1 43	16 21	0 37	23 12	0 14	16 28	0 58	19 44	0 35	21 27	0 35
T 24	23 27	16 35	4 47	25 0	1 33	16 38	1 39	16 32	0 36	23 13	0 14	16 29	0 58	19 43	0 35	21 27	0 35
F 25	23 25	18 1	5 0	25 3	1 38	16 15	1 35	16 44	0 36	23 13	0 13	16 30	0 58	19 42	0 35	21 26	0 35
S 26	23 24	18 30	4 57	25 4	1 42	15 51	1 30	16 55	0 35	23 13	0 13	16 31	0 59	19 42	0 35	21 26	0 35
S 27	23 22	17 57	4 37	25 4	1 46	15 27	1 26	17 7	0 35	23 14	0 13	16 32	0 59	19 41	0 35	21 26	0 35
M28	23 19	16 21	4 1	25 3	1 49	15 2	1 21	17 18	0 34	23 14	0 13	16 34	0 59	19 40	0 35	21 26	0 35
T 29	23 16	13 46	3 10	25 0	1 53	14 38	1 16	17 29	0 33	23 14	0 13	16 35	0 59	19 39	0 35	21 25	0 35
W30	23 13	10 22	2 7	24 55	1 56	14 13	1 11	17 39	0 33	23 14	0 13	16 36	0 59	19 39	0 35	21 25	0 35
T 31	23s 9	6s23	0n56	24s49	1s58	13s47	1s 6	17s50	0n32	23s14	0n13	16n37	0n59	19s38	0s35	21s25	0n35

Julian Day Number = 2389422.5, Delta T = 10.74 sec
Ecliptic obliquity = 23°27'31", Nutation = - 0°00'02", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°21'55", Lahiri = 21°28'56"