



Astrodienst Ephemeris Tables for the year 1679

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 1679
geocentric

JANUARY 1679 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 42 49	10 ³ 49'03	25 ² 53	19 ³ 23	2 ³ 6	20°R38	27 ⁷ 8	19°R 4	8 ⁷ 11	17 ³ 3	11°R15	4°R15	3 ¹ 30	12 ⁷ 8	9 ⁷ 7	S 1
M 2	6 46 46	11°50'12	7 ⁷ 49	21° 1	3°22	20 ² 29	27°16	19 ² 0	8°12	17° 5	11 ² 14	4 ¹ 7	3°27	12°15	9° 8	M 2
T 3	6 50 43	12°51'21	19°39	22°41	4°37	20°20	27°24	18°56	8°13	17° 7	11°13	4° 2	3°24	12°22	9° 8	T 3
W 4	6 54 39	13°52'30	1 ² 28	24°20	5°52	20°10	27°33	18°51	8°14	17° 9	11°11	3°59	3°21	12°28	9° 9	W 4
T 5	6 58 36	14°53'39	13°21	25°59	7° 8	19°59	27°41	18°47	8°15	17°11	11°10	3°D58	3°17	12°35	9°10	T 5
F 6	7 2 32	15°54'48	25°24	27°38	8°23	19°47	27°50	18°43	8°16	17°13	11° 9	3°58	3°14	12°42	9°11	F 6
S 7	7 6 29	16°55'57	7 ¹ 42	29°17	9°39	19°34	27°59	18°39	8°17	17°15	11° 8	3°R58	3°11	12°48	9°12	S 7
S 8	7 10 25	17°57'06	20°20	0 ² 55	10°54	19°21	28° 8	18°35	8°18	17°17	11° 6	3°57	3° 8	12°55	9°13	S 8
M 9	7 14 22	18°58'15	3 ² 22	2°33	12°10	19° 7	28°17	18°31	8°19	17°19	11° 5	3°54	3° 5	13° 2	9°14	M 9
T 10	7 18 18	19°59'24	16°51	4°11	13°25	18°52	28°26	18°27	8°20	17°21	11° 4	3°48	3° 1	13° 8	9°15	T 10
W11	7 22 15	21° 0'32	0 ³ 48	5°47	14°41	18°37	28°35	18°23	8°21	17°23	11° 3	3°39	2°58	13°15	9°17	W11
T 12	7 26 12	22° 1'40	15° 8	7°23	15°56	18°20	28°45	18°20	8°23	17°26	11° 1	3°28	2°55	13°22	9°18	T 12
F 13	7 30 8	23° 2'48	29°48	8°57	17°11	18° 3	28°54	18°16	8°24	17°28	11° 0	3°16	2°52	13°28	9°19	F 13
S 14	7 34 5	24° 3'55	14 ² 39	10°29	18°27	17°45	29° 4	18°12	8°26	17°30	10°59	3° 4	2°49	13°35	9°21	S 14
S 15	7 38 1	25° 5'01	29°31	11°59	19°42	17°27	29°14	18° 9	8°27	17°32	10°58	2°54	2°46	13°42	9°22	S 15
M16	7 41 58	26° 6'06	14 ³ 17	13°26	20°58	17° 8	29°24	18° 6	8°28	17°34	10°57	2°46	2°42	13°49	9°24	M16
T 17	7 45 54	27° 7'10	28°50	14°50	22°13	16°48	29°34	18° 2	8°30	17°36	10°55	2°41	2°39	13°55	9°25	T 17
W18	7 49 51	28° 8'13	13 ³ 7	16°10	23°28	16°28	29°44	17°59	8°32	17°38	10°54	2°39	2°36	14° 2	9°27	W18
T 19	7 53 47	29° 9'16	27° 3	17°26	24°44	16° 8	29°55	17°56	8°33	17°41	10°53	2°39	2°33	14° 9	9°28	T 19
F 20	7 57 44	0 ² 10'17	10 ³ 43	18°37	25°59	15°46	0 ⁷ 5	17°53	8°35	17°43	10°52	2°39	2°30	14°15	9°30	F 20
S 21	8 1 41	1°11'17	24° 5	19°41	27°15	15°25	0°16	17°50	8°37	17°45	10°51	2°38	2°26	14°22	9°32	S 21
S 22	8 5 37	2°12'16	7 ² 13	20°39	28°30	15° 3	0°26	17°47	8°38	17°47	10°49	2°35	2°23	14°29	9°34	S 22
M23	8 9 34	3°13'13	20° 9	21°29	29°45	14°40	0°37	17°45	8°40	17°49	10°48	2°28	2°20	14°35	9°36	M23
T 24	8 13 30	4°14'10	2 ² 53	22°11	1 ² 1	14°17	0°48	17°42	8°42	17°52	10°47	2°19	2°17	14°42	9°37	T 24
W25	8 17 27	5°15'05	15°27	22°44	2°16	13°54	0°59	17°39	8°44	17°54	10°46	2° 7	2°14	14°49	9°39	W25
T 26	8 21 23	6°16'00	27°51	23° 7	3°31	13°31	1°10	17°37	8°46	17°56	10°45	1°53	2°11	14°55	9°41	T 26
F 27	8 25 20	7°16'53	10 ² 6	23°19	4°47	13° 7	1°22	17°35	8°48	17°58	10°44	1°39	2° 7	15° 2	9°43	F 27
S 28	8 29 16	8°17'45	22°13	23°R20	6° 2	12°44	1°33	17°32	8°50	18° 1	10°43	1°24	2° 4	15° 9	9°46	S 28
S 29	8 33 13	9°18'36	4 ¹ 11	23°10	7°17	12°20	1°44	17°30	8°52	18° 3	10°42	1°12	2° 1	15°15	9°48	S 29
M30	8 37 10	10°19'27	16° 4	22°49	8°32	11°56	1°56	17°28	8°54	18° 5	10°40	1° 2	1°58	15°22	9°50	M30
T 31	8 41 6	11 ² 20'16	27 ⁷ 53	22 ² 17	9 ² 48	11 ² 32	2 ⁷ 7	17 ² 26	8 ⁷ 56	18 ² 7	10 ² 39	0 ¹ 54	1 ¹ 55	15 ⁷ 29	9 ⁷ 52	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
S 1	23s 2	8n29	4s42	24s11	2s 8	23s38	0s10	18n13	3n47	2s19	1s17	21n40	1s22	2n38	0s41	16s 2
M 2	22 57	4 45	4 13	23 56	2 8	23 38	0 12	18 18	3 49	2 16	1 17	21 39	1 22	2 38	0 41	16 2
T 3	22 51	0 51	3 33	23 40	2 7	23 39	0 15	18 23	3 52	2 12	1 17	21 39	1 22	2 39	0 41	16 1
W 4	22 45	3s 5	2 44	23 21	2 6	23 38	0 17	18 29	3 54	2 9	1 16	21 39	1 22	2 39	0 40	16 0
T 5	22 39	6 56	1 47	23 1	2 5	23 37	0 19	18 35	3 56	2 5	1 16	21 39	1 22	2 39	0 40	16 0
F 6	22 32	10 33	0 45	22 40	2 2	23 35	0 22	18 41	3 58	2 1	1 16	21 39	1 22	2 40	0 40	15 59
S 7	22 24	13 47	0n20	22 17	2 0	23 32	0 24	18 47	4 1	1 58	1 16	21 38	1 21	2 40	0 40	15 59
S 8	22 16	16 29	1 26	21 52	1 56	23 28	0 26	18 53	4 3	1 54	1 15	21 38	1 21	2 41	0 40	15 58
M 9	22 8	18 25	2 29	21 26	1 52	23 24	0 29	18 59	4 5	1 50	1 15	21 38	1 21	2 41	0 40	15 57
T 10	21 59	19 24	3 26	20 59	1 47	23 19	0 31	19 6	4 7	1 46	1 15	21 38	1 21	2 42	0 40	15 57
W11	21 50	19 15	4 13	20 30	1 42	23 13	0 33	19 13	4 9	1 42	1 15	21 38	1 21	2 42	0 40	15 56
T 12	21 40	17 53	4 46	20 0	1 36	23 7	0 35	19 20	4 11	1 38	1 15	21 38	1 21	2 43	0 40	15 56
F 13	21 30	15 20	5 0	19 29	1 29	22 59	0 38	19 27	4 13	1 34	1 14	21 38	1 20	2 43	0 40	15 55
S 14	21 20	11 46	4 55	18 57	1 21	22 52	0 40	19 35	4 15	1 30	1 14	21 37	1 20	2 44	0 40	15 54
S 15	21 9	7 27	4 29	18 23	1 13	22 43	0 42	19 42	4 17	1 26	1 14	21 37	1 20	2 45	0 40	15 54
M16	20 58	2 43	3 46	17 49	1 3	22 34	0 44	19 49	4 18	1 22	1 14	21 37	1 20	2 45	0 40	15 53
T 17	20 46	2n 7	2 48	17 15	0 53	22 24	0 46	19 57	4 20	1 18	1 14	21 37	1 20	2 46	0 40	15 52
W18	20 34	6 44	1 41	16 41	0 41	22 13	0 48	20 5	4 22	1 14	1 13	21 37	1 19	2 46	0 40	15 52
T 19	20 22	10 54	0 30	16 6	0 29	22 2	0 50	20 12	4 23	1 9	1 13	21 37	1 19	2 47	0 40	15 51
F 20	20 9	14 23	0s43	15 32	0 16	21 50	0 52	20 20	4 24	1 5	1 13	21 37	1 19	2 48	0 40	15 50
S 21	19 56	17 2	1 51	14 58	0 2	21 37	0 54	20 28	4 26	1 0	1 13	21 37	1 19	2 49	0 40	15 50
S 22	19 42	18 44	2 52	14 26	0n13	21 24	0 55	20 36	4 27	0 56	1 13	21 37	1 19	2 49	0 40	15 49
M23	19 28	19 25	3 43	13 55	0 28	21 10	0 57	20 43	4 28	0 52	1 12	21 37	1 18	2 50	0 40	15 48
T 24	19 14	19 5	4 22	13 26	0 44	20 56	0 59	20 51	4 29	0 47	1 12	21 37	1 18	2 51	0 40	15 48
W25	18 59	17 50	4 47	13 0	1 1	20 40	1 1	20 59	4 30	0 42	1 12	21 37	1 18	2 52	0 40	15 47
T 26	18 44	15 44	4 59	12 36	1 18	20 25	1 2	21 7	4 31	0 38	1 12	21 37	1 18	2 52	0 40	15 46
F 27	18 29	12 59	4 56	12 16	1 36	20 8	1 4	21 14	4 31	0 33	1 12	21 37	1 18	2 53	0 40	15 46
S 28	18 13	9 42	4 41	11 59	1 53	19 51	1 6	21 21	4 32	0 29	1 11	21 37	1 17	2 54	0 40	15 45
S 29	17 57	6 4	4 12	11 46	2 10	19 34	1 7	21 29	4 32	0 24	1 11	21 37	1 17	2 55	0 40	15 44
M30	17 41	2 14	3 33	11 37	2 27	19 16	1 9	21 36	4 33	0 19	1 11	21 37	1 17	2 56	0 40	15 44
T 31	17s24	1s41	2s45	11s32	2n43	18s57	1s10	21n43	4n33	0s14	1s11	21n37	1s17	2n57	0s40	15s43

Julian Day Number = 2334302.5, Delta T = 24.23 sec
Ecliptic obliquity = 23°28'43", Nutation = 0°00'10", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'34", Lahiri = 19°22'35"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1679
geocentric

FEBRUARY 1679 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 45 3	12 ²² 11'04	9 ²² 41	21 ¹⁰ R35	11 ²² 3	11 ¹⁰ R 8	2 ¹⁰ Y19	17 ¹⁰ R25	8 ¹⁰ Y58	18 ²² 10	10 ¹⁰ R38	0 ¹⁰ R50	1 ¹⁰ M52	15 ¹⁰ M36	9 ¹⁰ Y54	W 1
T 2	8 48 59	13 ²¹ 21'51	21 ¹⁰ 33	20 ²² 44	12 ¹⁰ 18	10 ¹⁰ Q44	2 ¹⁰ 31	17 ¹⁰ II23	9 ¹⁰ 1	18 ¹⁰ 12	10 ¹⁰ Q37	0 ¹⁰ M48	1 ¹⁰ 48	15 ¹⁰ 42	9 ¹⁰ 57	T 2
F 3	8 52 56	14 ²⁰ 22'37	3 ¹⁰ M33	19 ¹⁰ 46	13 ¹⁰ 34	10 ¹⁰ 20	2 ¹⁰ 43	17 ¹⁰ 21	9 ¹⁰ 3	18 ¹⁰ 14	10 ¹⁰ 36	0 ¹⁰ D48	1 ¹⁰ 45	15 ¹⁰ 49	9 ¹⁰ 59	F 3
S 4	8 56 52	15 ²⁰ 23'22	15 ¹⁰ 47	18 ¹⁰ 42	14 ¹⁰ 49	9 ¹⁰ 56	2 ¹⁰ 55	17 ¹⁰ 20	9 ¹⁰ 5	18 ¹⁰ 16	10 ¹⁰ 35	0 ¹⁰ R48	1 ¹⁰ 42	15 ¹⁰ 56	10 ¹⁰ 2	S 4
S 5	9 0 49	16 ²⁰ 24'06	28 ¹⁰ 21	17 ¹⁰ 33	16 ¹⁰ 4	9 ¹⁰ 33	3 ¹⁰ 7	17 ¹⁰ 18	9 ¹⁰ 8	18 ¹⁰ 19	10 ¹⁰ 34	0 ¹⁰ 48	1 ¹⁰ 39	16 ¹⁰ 2	10 ¹⁰ 4	S 5
M 6	9 4 45	17 ²⁰ 24'49	11 ¹⁰ 19	16 ¹⁰ 23	17 ¹⁰ 19	9 ¹⁰ 9	3 ¹⁰ 19	17 ¹⁰ 17	9 ¹⁰ 10	18 ¹⁰ 21	10 ¹⁰ 33	0 ¹⁰ 45	1 ¹⁰ 36	16 ¹⁰ 9	10 ¹⁰ 6	M 6
T 7	9 8 42	18 ²⁰ 25'31	24 ¹⁰ 45	15 ¹⁰ 12	18 ¹⁰ 34	8 ¹⁰ 46	3 ¹⁰ 31	17 ¹⁰ 16	9 ¹⁰ 12	18 ¹⁰ 23	10 ¹⁰ 32	0 ¹⁰ 41	1 ¹⁰ 32	16 ¹⁰ 16	10 ¹⁰ 9	T 7
W 8	9 12 39	19 ²⁰ 26'12	8 ¹⁰ 30	14 ¹⁰ 3	19 ¹⁰ 50	8 ¹⁰ 24	3 ¹⁰ 44	17 ¹⁰ 15	9 ¹⁰ 15	18 ¹⁰ 26	10 ¹⁰ 31	0 ¹⁰ 33	1 ¹⁰ 29	16 ¹⁰ 22	10 ¹⁰ 12	W 8
T 9	9 16 35	20 ²⁰ 26'52	23 ¹⁰ 5	12 ¹⁰ 57	21 ¹⁰ 5	8 ¹⁰ 1	3 ¹⁰ 56	17 ¹⁰ 14	9 ¹⁰ 17	18 ¹⁰ 28	10 ¹⁰ 30	0 ¹⁰ 24	1 ¹⁰ 26	16 ¹⁰ 29	10 ¹⁰ 14	T 9
F 10	9 20 32	21 ²⁰ 27'30	7 ¹⁰ 55	11 ¹⁰ 56	22 ¹⁰ 20	7 ¹⁰ 40	4 ¹⁰ 8	17 ¹⁰ 13	9 ¹⁰ 20	18 ¹⁰ 30	10 ¹⁰ 29	0 ¹⁰ 13	1 ¹⁰ 23	16 ¹⁰ 36	10 ¹⁰ 17	F 10
S 11	9 24 28	22 ²⁰ 28'07	23 ¹⁰ 1	11 ¹⁰ 1	23 ¹⁰ 35	7 ¹⁰ 18	4 ¹⁰ 21	17 ¹⁰ 12	9 ¹⁰ 23	18 ¹⁰ 32	10 ¹⁰ 29	0 ¹⁰ 2	1 ¹⁰ 20	16 ¹⁰ 42	10 ¹⁰ 20	S 11
S 12	9 28 25	23 ²⁰ 28'42	8 ¹⁰ 13	10 ¹⁰ 13	24 ¹⁰ 50	6 ¹⁰ 57	4 ¹⁰ 34	17 ¹⁰ 12	9 ¹⁰ 25	18 ¹⁰ 35	10 ¹⁰ 28	29 ¹⁰ 53	1 ¹⁰ 17	16 ¹⁰ 49	10 ¹⁰ 22	S 12
M13	9 32 21	24 ²⁰ 29'16	23 ¹⁰ 22	9 ¹⁰ 31	26 ¹⁰ 6	6 ¹⁰ 37	4 ¹⁰ 46	17 ¹⁰ 11	9 ¹⁰ 28	18 ¹⁰ 37	10 ¹⁰ 27	29 ¹⁰ 46	1 ¹⁰ 13	16 ¹⁰ 56	10 ¹⁰ 25	M13
T 14	9 36 18	25 ²⁰ 29'48	8 ¹⁰ Y16	8 ¹⁰ 58	27 ¹⁰ 21	6 ¹⁰ 17	4 ¹⁰ 59	17 ¹⁰ 11	9 ¹⁰ 30	18 ¹⁰ 39	10 ¹⁰ 26	29 ¹⁰ 42	1 ¹⁰ 10	17 ¹⁰ 2	10 ¹⁰ 28	T 14
W15	9 40 14	26 ²⁰ 30'18	22 ¹⁰ 50	8 ¹⁰ 32	28 ¹⁰ 36	5 ¹⁰ 57	5 ¹⁰ 12	17 ¹⁰ 11	9 ¹⁰ 33	18 ¹⁰ 41	10 ¹⁰ 25	29 ¹⁰ 40	1 ¹⁰ 7	17 ¹⁰ 9	10 ¹⁰ 31	W15
T 16	9 44 11	27 ²⁰ 30'46	7 ¹⁰ 1	8 ¹⁰ 13	29 ¹⁰ 51	5 ¹⁰ 39	5 ¹⁰ 25	17 ¹⁰ 11	9 ¹⁰ 36	18 ¹⁰ 44	10 ¹⁰ 24	29 ¹⁰ D40	1 ¹⁰ 4	17 ¹⁰ 16	10 ¹⁰ 34	T 16
F 17	9 48 8	28 ²⁰ 31'13	20 ¹⁰ 47	8 ¹⁰ 2	1 ¹⁰ 6	5 ¹⁰ 21	5 ¹⁰ 38	17 ¹⁰ D11	9 ¹⁰ 39	18 ¹⁰ 46	10 ¹⁰ 24	29 ¹⁰ 40	1 ¹⁰ 1	17 ¹⁰ 22	10 ¹⁰ 36	F 17
S 18	9 52 4	29 ²⁰ 31'37	4 ¹⁰ II 9	7 ¹⁰ D58	2 ¹⁰ 21	5 ¹⁰ 3	5 ¹⁰ 51	17 ¹⁰ 11	9 ¹⁰ 41	18 ¹⁰ 48	10 ¹⁰ 23	29 ¹⁰ R41	0 ¹⁰ 58	17 ¹⁰ 29	10 ¹⁰ 39	S 18
S 19	9 56 1	0 ¹⁰ 32'00	17 ¹⁰ 12	8 ¹⁰ 1	3 ¹⁰ 36	4 ¹⁰ 46	6 ¹⁰ 4	17 ¹⁰ 11	9 ¹⁰ 44	18 ¹⁰ 50	10 ¹⁰ 22	29 ¹⁰ 39	0 ¹⁰ 54	17 ¹⁰ 36	10 ¹⁰ 42	S 19
M20	9 59 57	1 ¹⁰ 32'21	29 ¹⁰ 57	8 ¹⁰ 10	4 ¹⁰ 51	4 ¹⁰ 30	6 ¹⁰ 17	17 ¹⁰ 11	9 ¹⁰ 47	18 ¹⁰ 53	10 ¹⁰ 21	29 ¹⁰ 35	0 ¹⁰ 51	17 ¹⁰ 43	10 ¹⁰ 45	M20
T 21	10 3 54	2 ¹⁰ 32'39	12 ¹⁰ Q29	8 ¹⁰ 25	6 ¹⁰ 6	4 ¹⁰ 15	6 ¹⁰ 30	17 ¹⁰ 12	9 ¹⁰ 50	18 ¹⁰ 55	10 ¹⁰ 21	29 ¹⁰ 29	0 ¹⁰ 48	17 ¹⁰ 49	10 ¹⁰ 48	T 21
W22	10 7 50	3 ¹⁰ 32'56	24 ¹⁰ 48	8 ¹⁰ 46	7 ¹⁰ 21	4 ¹⁰ 0	6 ¹⁰ 44	17 ¹⁰ 12	9 ¹⁰ 53	18 ¹⁰ 57	10 ¹⁰ 20	29 ¹⁰ 21	0 ¹⁰ 45	17 ¹⁰ 56	10 ¹⁰ 52	W22
T 23	10 11 47	4 ¹⁰ 33'11	6 ¹⁰ Q29	9 ¹⁰ 12	8 ¹⁰ 36	3 ¹⁰ 47	6 ¹⁰ 57	17 ¹⁰ 13	9 ¹⁰ 56	18 ¹⁰ 59	10 ¹⁰ 19	29 ¹⁰ 11	0 ¹⁰ 42	18 ¹⁰ 3	10 ¹⁰ 55	T 23
F 24	10 15 43	5 ¹⁰ 33'23	19 ¹⁰ 2	9 ¹⁰ 44	9 ¹⁰ 51	3 ¹⁰ 33	7 ¹⁰ 10	17 ¹⁰ 14	9 ¹⁰ 59	19 ¹⁰ 2	10 ¹⁰ 19	29 ¹⁰ 0	0 ¹⁰ 38	18 ¹⁰ 9	10 ¹⁰ 58	F 24
S 25	10 19 40	6 ¹⁰ 33'34	1 ¹⁰ 0	10 ¹⁰ 19	11 ¹⁰ 6	3 ¹⁰ 21	7 ¹⁰ 24	17 ¹⁰ 15	10 ¹⁰ 2	19 ¹⁰ 4	10 ¹⁰ 18	28 ¹⁰ 49	0 ¹⁰ 35	18 ¹⁰ 16	11 ¹⁰ 1	S 25
S 26	10 23 37	7 ¹⁰ 33'43	12 ¹⁰ 53	10 ¹⁰ 59	12 ¹⁰ 21	3 ¹⁰ 10	7 ¹⁰ 37	17 ¹⁰ 16	10 ¹⁰ 5	19 ¹⁰ 6	10 ¹⁰ 17	28 ¹⁰ 40	0 ¹⁰ 32	18 ¹⁰ 23	11 ¹⁰ 4	S 26
M27	10 27 33	8 ¹⁰ 33'51	24 ¹⁰ 43	11 ¹⁰ 43	13 ¹⁰ 36	2 ¹⁰ 59	7 ¹⁰ 51	17 ¹⁰ 17	10 ¹⁰ 8	19 ¹⁰ 8	10 ¹⁰ 17	28 ¹⁰ 33	0 ¹⁰ 29	18 ¹⁰ 29	11 ¹⁰ 7	M27
T 28	10 31 30	9 ¹⁰ 33'56	6 ¹⁰ Q31	12 ¹⁰ 53	14 ¹⁰ 51	2 ¹⁰ Q49	8 ¹⁰ Y 4	17 ¹⁰ II18	10 ¹⁰ Y11	19 ¹⁰ 10	10 ¹⁰ Q16	28 ¹⁰ Q28	0 ¹⁰ M26	18 ¹⁰ M36	11 ¹⁰ Y11	T 28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	17s 7	5s31	1s50	11s32	2n57	18s38	1s11	21n50	4n33	0s10	1s11	21n37	1s16	2n58	0s39	15s42	0s18	21n36	1s27	11s47	12s 8	2n15	5n28	1n40			
T 2	16 50	9 10	0 49	11 36	3 10	18 18	1 13	21 57	4 33	0 5	1 11	21 37	1 16	2 58	0 39	15 41	0 18	21 36	1 27	11 46	12 7	2 13	5 29	1 40			
F 3	16 33	12 29	0n15	11 44	3 21	17 58	1 14	22 3	4 33	0n 0	1 10	21 37	1 16	2 59	0 39	15 41	0 18	21 36	1 27	11 46	12 6	2 11	5 30	1 40			
S 4	16 15	15 20	1 19	11 55	3 30	17 37	1 15	22 10	4 33	0 5	1 10	21 37	1 16	3 0	0 39	15 40	0 18	21 36	1 27	11 46	12 5	2 9	5 30	1 40			
S 5	15 57	17 32	2 21	12 9	3 37	17 16	1 16	22 16	4 32	0 10	1 10	21 37	1 16	3 1	0 39	15 39	0 18	21 37	1 27	11 46	12 4	2 7	5 31	1 40			
M 6	15 38	18 55	3 18	12 26	3 41	16 54	1 17	22 22	4 32	0 15	1 10	21 37	1 15	3 2	0 39	15 39	0 18	21 37	1 27	11 45	12 3	2 5	5 32	1 40			
T 7	15 20	19 17	4 6	12 45	3 43	16 31	1 18	22 27	4 32	0 20	1 10	21 37	1 15	3 3	0 39	15 38	0 18	21 37	1 27	11 44	12 2	2 3	5 33	1 39			
W 8	15 1	18 31	4 41	13 5	3 43	16 9	1 19	22 33	4 31	0 25	1 10	21 37	1 15	3 4	0 39	15 37	0 18	21 37	1 27	11 41	12 1	2 1	5 34	1 39			
T 9	14 42	16 34	5 0	13 26	3 40	15 46	1 20	22 38	4 30	0 30	1 10	21 38	1 15	3 5	0 39	15 37	0 18	21 37	1 27	11 38	12 0	1 59	5 35	1 39			
F 10	14 22	13 29	5 0	13 48	3 35	15 22	1 21	22 43	4 29	0 35	1 9	21 38	1 14	3 6	0 39	15 36	0 18	21 37	1 27	11 34	11 58	1 57	5 36	1 39			
S 11	14 3	9 28	4 39	14 9	3 29	14 58	1 22	22 48	4 28	0 40	1 9	21 38	1 14	3 7	0 39	15 35	0 18	21 37	1 27	11 30	11 57	1 55	5 37	1 39			
S 12	13 43	4 49	3 58	14 30	3 20	14 34	1 23	22 52	4 27	0 45	1 9	21 38	1 14	3 8	0 39	15 35	0 18	21 38	1 27	11 27	11 56	1 53	5 38	1 39			
M13	13 23	0n 7	3 1	14 50	3 11	14 9	1 23	22 57	4 26	0 51	1 9	21 38	1 14	3 9	0 39	15 34	0 18	21 38	1 26	11 24	11 55	1 51	5 39	1 39			
T 14	13 3	5 0	1 51	15 9	3 0	13 44	1 24	23 1	4 25	0 56	1 9	21 38	1 14	3 10	0 39	15 33	0 18	21 38	1 26	11 23	11 54	1 49	5 40	1 39			
W15	12 42	9 27	0 36	15 27	2 49	13 18	1 24	23 4	4 24	1 1	1 9	21 39	1 13	3 12	0 39	15 32	0 18	21 38	1 26	11 22	11 53	1 47	5 41	1 38			
T 16	12 21	13 16	0s39	15 43	2 37	12 52	1 25	23 8	4 22	1 6	1 9	21 39	1 13	3 13	0 39	15 32	0 19	21 38	1 26	11 22	11 52	1 45	5 42	1 38			
F 17	12 0	16 12	1 50	15 58	2 24	12 26	1 25	23 11	4 21	1 12	1 8	21 39	1 13	3 14	0 39	15 31	0 19	21 38	1 26	11 23	11 51	1 43	5 43	1 38			
S 18	11 39	18 10	2 53	16 11	2 11	11 59	1 26	23 14	4 20	1 17	1 8	21 39	1 13	3 15	0 39	15 30	0 19	21 39	1 26	11 23	11 50	1 41	5 44	1 38			
S 19	11 18	19 7	3 46	16 23	1 58	11 32	1 26	23 16	4 18	1 22	1 8	21 40	1 12	3 16	0 39	15 30	0 19	21 39	1 26	11 22	11 48	1 39	5 45	1 38			
M20	10 57	19 3	4 26	16 33	1 45	11 5	1 26	23 19	4 16	1 27	1 8	21 40	1 12	3 17	0 39	15 29	0 19	21 39	1 26	11 21	11 47	1 37	5 46	1 38			
T 21	10 35	18 3	4 52	16 42	1 32	10 37	1 26	23 21	4 15	1 33	1 8	21 40	1 12	3 18	0 39	15 28	0 19	21 39	1 26	11 19	11 46	1 35	5 47	1 38			
W22	10 13	16 13	5 4	16 49	1 19	10 10	1 26	23 23	4 13	1 38	1 8	21 40	1 12	3 19	0 39	15 28	0 19	21 39	1 26	11 16	11 45	1 33	5 48	1 37			
T 23	9 51	13 41	5 2	16 54	1 7	9 42	1 26	23 24	4 11	1 44	1 8	21 41	1 12	3 21	0 39	15 27	0 19	21 39	1 26	11 12	11 44	1 31	5 49	1 37			
F 24	9 29	10 35	4 47	16 58	0 54	9 13	1 26	23 26	4 9	1 49	1 8	21 41	1 11	3 22	0 39	15 26	0 19	21 39	1 26	11 8	11 43	1 29	5 50	1 37			
S 25	9 7	7 6	4 19	17 1	0 42	8 45	1 26	23 27	4 7	1 54	1 8	21 41	1 11	3 23	0 39	15 26	0 19	21 40	1 25	11 4	11 42	1 27	5 51	1 37			
S 26	8 45	3 21	3 40	17 1	0 30	8 16	1 26	23 28	4 5	2 0	1 7	21 41	1 11	3 24	0 39	15 25	0 19	21 40	1 25	11 1	11 41	1 25	5 51	1 37			
M27	8 22	0s31	2 51	17 0	0 19	7 47	1 26	23 28	4 3	2 5	1 7	21 42	1 11	3 25	0 39	15 24	0 19	21 40	1 25	10 59	11 40	1 23	5 52	1 37			
T 28	8s 0	4s22	1s55	16s58	0n 7	7s18	1s26	23n29	4n 1	2n11	1s 7	21n42	1s10	3n27	0s39	15s24	0s19	21n40	1s25	10s57	11s38	1n21	5n55	1n37			

ASTRODIENST EPHEMERIS for the year 1679
geocentric

MARCH 1679 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	10 35 26	10 ^h 34'00	18 ^h 22	13 ^h 22	16 ^h 6	2 ^h R40	8 ^h Y18	17 ^h II19	10 ^h Y14	19 ^h 13	10 ^h R16	28 ^h R25	0 ^h M23	18 ^h 43	11 ^h Y14	W 1
T 2	10 39 23	11 ^h 34'02	0 ^h M16	14 ^h 16	17 ^h 20	2 ^h U31	8 ^h 32	17 ^h 21	10 ^h 17	19 ^h 15	10 ^h U15	28 ^h D25	0 ^h 19	18 ^h 49	11 ^h 17	T 2
F 3	10 43 19	12 ^h 34'02	12 ^h 19	15 ^h 13	18 ^h 35	2 ^h 23	8 ^h 46	17 ^h 22	10 ^h 20	19 ^h 17	10 ^h 15	28 ^h U25	0 ^h 16	18 ^h 56	11 ^h 20	F 3
S 4	10 47 16	13 ^h 34'01	24 ^h 34	16 ^h 13	19 ^h 50	2 ^h 17	8 ^h 59	17 ^h 24	10 ^h 23	19 ^h 19	10 ^h 14	28 ^h 27	0 ^h 13	19 ^h 3	11 ^h 24	S 4
S 5	10 51 12	14 ^h 33'58	7 ^h 5	17 ^h 15	21 ^h 5	2 ^h 10	9 ^h 13	17 ^h 26	10 ^h 26	19 ^h 21	10 ^h 14	28 ^h 28	0 ^h 10	19 ^h 9	11 ^h 27	S 5
M 6	10 55 9	15 ^h 33'54	19 ^h 59	18 ^h 20	22 ^h 20	2 ^h 5	9 ^h 27	17 ^h 27	10 ^h 29	19 ^h 23	10 ^h 13	28 ^h R28	0 ^h 7	19 ^h 16	11 ^h 31	M 6
T 7	10 59 5	16 ^h 33'48	3 ^h 317	19 ^h 28	23 ^h 34	2 ^h 1	9 ^h 41	17 ^h 29	10 ^h 33	19 ^h 25	10 ^h 13	28 ^h 27	0 ^h 4	19 ^h 23	11 ^h 34	T 7
W 8	11 3 2	17 ^h 33'40	17 ^h 4	20 ^h 37	24 ^h 49	1 ^h 57	9 ^h 55	17 ^h 32	10 ^h 36	19 ^h 27	10 ^h 12	28 ^h 24	0 ^h 0	19 ^h 29	11 ^h 37	W 8
T 9	11 6 59	18 ^h 33'30	1 ^h 20	21 ^h 49	26 ^h 4	1 ^h 54	10 ^h 9	17 ^h 34	10 ^h 39	19 ^h 29	10 ^h 12	28 ^h 19	29 ^h U57	19 ^h 36	11 ^h 41	T 9
F 10	11 10 55	19 ^h 33'19	16 ^h 2	23 ^h 2	27 ^h 19	1 ^h 52	10 ^h 23	17 ^h 36	10 ^h 42	19 ^h 31	10 ^h 12	28 ^h 13	29 ^h 54	19 ^h 43	11 ^h 44	F 10
S 11	11 14 52	20 ^h 33'06	1 ^h 4	24 ^h 17	28 ^h 33	1 ^h 50	10 ^h 37	17 ^h 38	10 ^h 46	19 ^h 33	10 ^h 11	28 ^h 7	29 ^h 51	19 ^h 49	11 ^h 48	S 11
S 12	11 18 48	21 ^h 32'51	16 ^h 19	25 ^h 34	29 ^h 48	1 ^h D50	10 ^h 51	17 ^h 41	10 ^h 49	19 ^h 35	10 ^h 11	28 ^h 2	29 ^h 48	19 ^h 56	11 ^h 51	S 12
M13	11 22 45	22 ^h 32'34	1 ^h Y35	26 ^h 53	1 ^h Y3	1 ^h 50	11 ^h 5	17 ^h 44	10 ^h 52	19 ^h 37	10 ^h 11	27 ^h 58	29 ^h 44	20 ^h 3	11 ^h 55	M13
T 14	11 26 41	23 ^h 32'15	16 ^h 42	28 ^h 14	2 ^h 17	1 ^h 50	11 ^h 19	17 ^h 46	10 ^h 56	19 ^h 39	10 ^h 10	27 ^h 56	29 ^h 41	20 ^h 9	11 ^h 58	T 14
W15	11 30 38	24 ^h 31'54	1 ^h 31	29 ^h 36	3 ^h 32	1 ^h 52	11 ^h 33	17 ^h 49	10 ^h 59	19 ^h 41	10 ^h 10	27 ^h D56	29 ^h 38	20 ^h 16	12 ^h 2	W15
T 16	11 34 34	25 ^h 31'30	1 ^h 56	1 ^h 0	4 ^h 46	1 ^h 54	11 ^h 48	17 ^h 52	11 ^h 2	19 ^h 43	10 ^h 10	27 ^h 57	29 ^h 35	20 ^h 23	12 ^h 5	T 16
F 17	11 38 31	26 ^h 31'05	29 ^h 55	2 ^h 25	6 ^h 1	1 ^h 57	12 ^h 2	17 ^h 55	11 ^h 6	19 ^h 45	10 ^h 10	27 ^h 58	29 ^h 32	20 ^h 29	12 ^h 9	F 17
S 18	11 42 28	27 ^h 30'37	13 ^h II27	3 ^h 52	7 ^h 16	2 ^h 1	12 ^h 16	17 ^h 58	11 ^h 9	19 ^h 47	10 ^h 10	28 ^h 0	29 ^h 29	20 ^h 36	12 ^h 13	S 18
S 19	11 46 24	28 ^h 30'06	26 ^h 35	5 ^h 20	8 ^h 30	2 ^h 5	12 ^h 30	18 ^h 2	11 ^h 12	19 ^h 49	10 ^h 10	28 ^h R0	29 ^h 25	20 ^h 43	12 ^h 16	S 19
M20	11 50 21	29 ^h 29'34	9 ^h U21	6 ^h 49	9 ^h 45	2 ^h 10	12 ^h 45	18 ^h 5	11 ^h 16	19 ^h 51	10 ^h 9	28 ^h 0	29 ^h 22	20 ^h 50	12 ^h 20	M20
T 21	11 54 17	0 ^h Y28'59	21 ^h 48	8 ^h 21	10 ^h 59	2 ^h 16	12 ^h 59	18 ^h 8	11 ^h 19	19 ^h 53	10 ^h 9	27 ^h 58	29 ^h 19	20 ^h 56	12 ^h 23	T 21
W22	11 58 14	1 ^h 28'22	4 ^h U2	9 ^h 53	12 ^h 13	2 ^h 22	13 ^h 13	18 ^h 12	11 ^h 22	19 ^h 55	10 ^h 9	27 ^h 55	29 ^h 16	21 ^h 3	12 ^h 27	W22
T 23	12 2 10	2 ^h 27'42	16 ^h 5	11 ^h 27	13 ^h 28	2 ^h 29	13 ^h 28	18 ^h 15	11 ^h 26	19 ^h 56	10 ^h 9	27 ^h 51	29 ^h 13	21 ^h 10	12 ^h 31	T 23
F 24	12 6 7	3 ^h 27'00	28 ^h 0	13 ^h 2	14 ^h 42	2 ^h 36	13 ^h 42	18 ^h 19	11 ^h 29	19 ^h 58	10 ^h D9	27 ^h 47	29 ^h 9	21 ^h 16	12 ^h 34	F 24
S 25	12 10 3	4 ^h 26'16	9 ^h U52	14 ^h 39	15 ^h 57	2 ^h 45	13 ^h 56	18 ^h 23	11 ^h 33	20 ^h 0	10 ^h 9	27 ^h 43	29 ^h 6	21 ^h 23	12 ^h 38	S 25
S 26	12 14 0	5 ^h 25'30	21 ^h 41	16 ^h 17	17 ^h 11	2 ^h 53	14 ^h 11	18 ^h 27	11 ^h 36	20 ^h 2	10 ^h 9	27 ^h 39	29 ^h 3	21 ^h 30	12 ^h 42	S 26
M27	12 17 57	6 ^h 24'42	3 ^h U31	17 ^h 56	18 ^h 25	3 ^h 3	14 ^h 25	18 ^h 31	11 ^h 39	20 ^h 3	10 ^h 9	27 ^h 37	29 ^h 0	21 ^h 36	12 ^h 45	M27
T 28	12 21 53	7 ^h 23'51	15 ^h 23	19 ^h 37	19 ^h 39	3 ^h 13	14 ^h 40	18 ^h 35	11 ^h 43	20 ^h 5	10 ^h 10	27 ^h 35	28 ^h 57	21 ^h 43	12 ^h 49	T 28
W29	12 25 50	8 ^h 22'59	27 ^h 19	21 ^h 19	20 ^h 54	3 ^h 23	14 ^h 54	18 ^h 39	11 ^h 46	20 ^h 7	10 ^h 10	27 ^h D35	28 ^h 54	21 ^h 50	12 ^h 53	W29
T 30	12 29 46	9 ^h 22'04	9 ^h M22	23 ^h 3	22 ^h 8	3 ^h 34	15 ^h 8	18 ^h 43	11 ^h 50	20 ^h 8	10 ^h 10	27 ^h 35	28 ^h 50	21 ^h 56	12 ^h 56	T 30
F 31	12 33 43	10 ^h Y21'08	21 ^h M34	24 ^h 48	23 ^h Y22	3 ^h U46	15 ^h Y23	18 ^h II48	11 ^h Y53	20 ^h 10	10 ^h U10	27 ^h U36	28 ^h U47	22 ^h U3	13 ^h Y0	F 31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
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ASTRODIENST EPHEMERIS for the year 1679
geocentric

APRIL 1679 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 37 39	11°20'10	3♌57	26♋35	24♊36	3♊58	15♊37	18♊52	11♊57	20♌12	10♌10	27♌38	28♌44	22♎10	13♊ 4	S 1
S 2	12 41 36	12°19'10	16°35	28°23	25°50	4°10	15°52	18°57	12° 0	20°13	10°10	27°39	28°41	22°16	13° 8	S 2
M 3	12 45 32	13°18'09	29°30	0♊12	27° 5	4°24	16° 6	19° 1	12° 3	20°15	10°11	27°40	28°38	22°23	13°11	M 3
T 4	12 49 29	14°17'05	12♌46	2° 3	28°19	4°37	16°21	19° 6	12° 7	20°16	10°11	27°R40	28°35	22°30	13°15	T 4
W 5	12 53 26	15°16'00	26°26	3°56	29°33	4°51	16°35	19°11	12°10	20°18	10°11	27°40	28°31	22°36	13°19	W 5
T 6	12 57 22	16°14'53	10♌28	5°50	0♋47	5° 6	16°50	19°16	12°14	20°19	10°11	27°39	28°28	22°43	13°22	T 6
F 7	13 1 19	17°13'45	24°54	7°45	2° 1	5°21	17° 4	19°21	12°17	20°21	10°12	27°38	28°25	22°50	13°26	F 7
S 8	13 5 15	18°12'34	9♋39	9°42	3°15	5°37	17°19	19°26	12°21	20°22	10°12	27°37	28°22	22°56	13°30	S 8
S 9	13 9 12	19°11'22	24°39	11°40	4°29	5°53	17°33	19°31	12°24	20°24	10°12	27°36	28°19	23° 3	13°33	S 9
M10	13 13 8	20°10'08	9♊44	13°40	5°43	6° 9	17°47	19°36	12°27	20°25	10°13	27°35	28°15	23°10	13°37	M10
T 11	13 17 5	21° 8'52	24°46	15°41	6°57	6°26	18° 2	19°41	12°31	20°26	10°13	27°D35	28°12	23°16	13°41	T 11
W12	13 21 1	22° 7'34	9♋36	17°43	8°10	6°43	18°16	19°46	12°34	20°28	10°14	27°35	28° 9	23°23	13°44	W12
T 13	13 24 58	23° 6'14	24° 7	19°47	9°24	7° 1	18°31	19°52	12°38	20°29	10°14	27°35	28° 6	23°30	13°48	T 13
F 14	13 28 54	24° 4'52	8♊15	21°52	10°38	7°19	18°45	19°57	12°41	20°30	10°15	27°36	28° 3	23°36	13°52	F 14
S 15	13 32 51	25° 3'28	21°57	23°58	11°52	7°37	19° 0	20° 3	12°44	20°31	10°15	27°36	28° 0	23°43	13°55	S 15
S 16	13 36 48	26° 2'01	5♌12	26° 4	13° 6	7°56	19°14	20° 8	12°48	20°33	10°16	27°36	27°56	23°50	13°59	S 16
M17	13 40 44	27° 0'33	18° 3	28°12	14°19	8°16	19°28	20°14	12°51	20°34	10°16	27°36	27°53	23°56	14° 3	M17
T 18	13 44 41	27°59'02	0♊34	0♋20	15°33	8°35	19°43	20°20	12°55	20°35	10°17	27°36	27°50	24° 3	14° 6	T 18
W19	13 48 37	28°57'29	12°47	2°28	16°47	8°55	19°57	20°26	12°58	20°36	10°17	27°36	27°47	24°10	14°10	W19
T 20	13 52 34	29°55'54	24°48	4°36	18° 1	9°16	20°12	20°32	13° 1	20°37	10°18	27°37	27°44	24°16	14°13	T 20
F 21	13 56 30	0♋54'17	6♎41	6°44	19°14	9°37	20°26	20°37	13° 4	20°38	10°19	27°37	27°40	24°23	14°17	F 21
S 22	14 0 27	1°52'37	18°30	8°52	20°28	9°58	20°40	20°43	13° 8	20°39	10°19	27°37	27°37	24°30	14°21	S 22
S 23	14 4 23	2°50'56	0♌19	10°58	21°41	10°19	20°55	20°50	13°11	20°40	10°20	27°38	27°34	24°36	14°24	S 23
M24	14 8 20	3°49'12	12°11	13° 4	22°55	10°41	21° 9	20°56	13°14	20°41	10°21	27°38	27°31	24°43	14°28	M24
T 25	14 12 17	4°47'27	24° 9	15° 8	24° 8	11° 3	21°23	21° 2	13°18	20°42	10°21	27°R39	27°28	24°50	14°31	T 25
W26	14 16 13	5°45'40	6♎15	17°11	25°22	11°25	21°37	21° 8	13°21	20°43	10°22	27°39	27°25	24°56	14°35	W26
T 27	14 20 10	6°43'52	18°30	19°11	26°35	11°48	21°51	21°14	13°24	20°44	10°23	27°38	27°21	25° 3	14°38	T 27
F 28	14 24 6	7°42'01	0♌57	21° 9	27°49	12°11	22° 6	21°21	13°27	20°45	10°24	27°37	27°18	25°10	14°42	F 28
S 29	14 28 3	8°40'09	13°37	23° 5	29° 2	12°34	22°20	21°27	13°30	20°46	10°25	27°36	27°15	25°16	14°45	S 29
S 30	14 31 59	9♋38'16	26♌30	24♋58	0♊15	12♊57	22♊34	21♊34	13♊34	20♌46	10♌25	27♌34	27♌12	25♎23	14♊49	S 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	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	4n30	17s54 3n 8	3s23 2s13	8n51 0s45	22n 6 2n53	5n 9 1s 5	21n57 1s 4	4n 8 0s38	15s 5 0s19	21n43 1s22	10s39 11s 3	0n18 6n36	1n34			
S 2	4 53	18 50 3 59	2 37 2 9	9 20 0 43	22 1 2 51	5 15 1 5	21 58 1 4	4 10 0 38	15 4 0 19	21 43 1 22	10 39 11 1	0 16 6 38	1 34			
M 3	5 16	18 49 4 40	1 50 2 6	9 49 0 41	21 56 2 49	5 21 1 5	21 58 1 3	4 11 0 38	15 4 0 19	21 44 1 22	10 40 11 0	0 14 6 39	1 34			
T 4	5 38	17 47 5 6	1 2 2 1	10 17 0 39	21 51 2 47	5 26 1 5	21 59 1 3	4 13 0 38	15 3 0 19	21 44 1 22	10 40 10 59	0 12 6 40	1 33			
W 5	6 1	15 43 5 17	0 13 1 57	10 46 0 37	21 45 2 45	5 32 1 5	21 59 1 3	4 14 0 38	15 3 0 19	21 44 1 22	10 40 10 58	0 10 6 42	1 33			
T 6	6 24	12 41 5 9	0n37 1 51	11 14 0 34	21 40 2 43	5 37 1 5	22 0 1 3	4 15 0 38	15 2 0 19	21 44 1 22	10 39 10 57	0 8 6 43	1 33			
F 7	6 47	8 49 4 42	1 28 1 46	11 41 0 32	21 34 2 42	5 43 1 5	22 1 1 3	4 17 0 38	15 2 0 19	21 44 1 22	10 39 10 56	0 6 6 45	1 33			
S 8	7 9	4 19 3 56	2 20 1 39	12 9 0 30	21 29 2 40	5 49 1 5	22 1 1 2	4 18 0 38	15 2 0 19	21 44 1 22	10 39 10 55	0 4 6 46	1 33			
S 9	7 31	0n31 2 53	3 12 1 33	12 36 0 27	21 23 2 38	5 54 1 5	22 2 1 2	4 19 0 38	15 1 0 19	21 44 1 21	10 38 10 53	0 2 6 47	1 33			
M10	7 54	5 21 1 38	4 5 1 25	13 3 0 25	21 17 2 36	6 0 1 5	22 2 1 2	4 21 0 38	15 1 0 19	21 44 1 21	10 38 10 52	0s 0 6 49	1 33			
T 11	8 16	9 51 0 16	4 59 1 18	13 30 0 23	21 11 2 34	6 5 1 5	22 3 1 2	4 22 0 38	15 0 0 19	21 44 1 21	10 38 10 51	0 2 6 50	1 33			
W12	8 38	13 40 1s 6	5 54 1 9	13 56 0 20	21 5 2 32	6 11 1 5	22 3 1 2	4 23 0 38	15 0 0 19	21 44 1 21	10 38 10 50	0 4 6 51	1 33			
T 13	9 0	16 32 2 22	6 49 1 1	14 22 0 18	20 58 2 30	6 16 1 5	22 4 1 2	4 25 0 38	15 0 0 19	21 44 1 21	10 38 10 49	0 6 6 53	1 33			
F 14	9 21	18 18 3 27	7 44 0 52	14 48 0 15	20 52 2 29	6 22 1 5	22 5 1 1	4 26 0 38	14 59 0 19	21 44 1 21	10 38 10 48	0 8 6 54	1 33			
S 15	9 43	18 56 4 18	8 39 0 42	15 13 0 13	20 46 2 27	6 27 1 5	22 5 1 1	4 27 0 38	14 59 0 19	21 44 1 21	10 38 10 47	0 10 6 56	1 33			
S 16	10 4	18 29 4 54	9 35 0 32	15 38 0 10	20 39 2 25	6 33 1 5	22 6 1 1	4 28 0 38	14 58 0 20	21 44 1 21	10 38 10 46	0 12 6 57	1 33			
M17	10 25	17 5 5 13	10 30 0 22	16 2 0 8	20 32 2 23	6 38 1 5	22 6 1 1	4 30 0 38	14 58 0 20	21 44 1 21	10 38 10 44	0 14 6 58	1 33			
T 18	10 46	14 54 5 17	11 25 0 12	16 26 0 5	20 25 2 22	6 43 1 5	22 7 1 1	4 31 0 38	14 58 0 20	21 44 1 21	10 38 10 43	0 16 7 0	1 33			
W19	11 7	12 6 5 7	12 20 0 1	16 50 0 3	20 18 2 20	6 49 1 5	22 8 1 1	4 32 0 38	14 57 0 20	21 44 1 21	10 38 10 42	0 18 7 1	1 33			
T 20	11 28	8 50 4 43	13 13 0n 9	17 13 0 0	20 11 2 18	6 54 1 5	22 8 1 0	4 34 0 38	14 57 0 20	21 45 1 20	10 38 10 41	0 20 7 2	1 33			
F 21	11 48	5 15 4 7	14 6 0 20	17 36 0n 2	20 4 2 17	7 0 1 5	22 9 1 0	4 35 0 38	14 57 0 20	21 45 1 20	10 39 10 40	0 22 7 4	1 32			
S 22	12 9	1 28 3 21	14 58 0 31	17 58 0 5	19 57 2 15	7 5 1 5	22 9 1 0	4 36 0 38	14 56 0 20	21 45 1 20	10 39 10 39	0 24 7 5	1 32			
S 23	12 29	2s22 2 26	15 48 0 42	18 20 0 8	19 49 2 13	7 10 1 5	22 10 1 0	4 38 0 38	14 56 0 20	21 45 1 20	10 39 10 38	0 26 7 6	1 32			
M24	12 49	6 8 1 25	16 37 0 52	18 42 0 10	19 42 2 12	7 16 1 5	22 10 1 0	4 39 0 38	14 56 0 20	21 45 1 20	10 39 10 36	0 28 7 8	1 32			
T 25	13 8	9 41 0 19	17 24 1 2	19 3 0 13	19 34 2 10	7 21 1 5	22 11 1 0	4 40 0 38	14 56 0 20	21 45 1 20	10 39 10 35	0 30 7 9	1 32			
W26	13 28	12 53 0n48	18 9 1 12	19 23 0 15	19 27 2 9	7 26 1 5	22 12 0 59	4 41 0 38	14 55 0 20	21 45 1 20	10 39 10 34	0 32 7 10	1 32			
T 27	13 47	15 33 1 53	18 52 1 22	19 43 0 18	19 19 2 7	7 32 1 5	22 12 0 59	4 43 0 38	14 55 0 20	21 45 1 20	10 39 10 33	0 34 7 12	1 32			
F 28	14 6	17 32 2 54	19 33 1 31	20 2 0 21	19 11 2 5	7 37 1 5	22 13 0 59	4 44 0 38	14 55 0 20	21 45 1 20	10 39 10 32	0 35 7 13	1 32			
S 29	14 25	18 42 3 48	20 11 1 40	20 21 0 23	19 3 2 4	7 42 1 5	22 13 0 59	4 45 0 38	14 55 0 20	21 45 1 20	10 38 10 31	0 37 7 14	1 32			
S 30	14n43	18s55 4n31	20n47 1n48	20n39 0n26	18n54 2n 2	7n47 1s 5	22n14 0s59	4n46 0s38	14s54 0s20	21n45 1s20	10s38 10s30	0s39 7n16	1n32			

Julian Day Number = 2334392.5, Delta T = 24.09 sec
Ecliptic obliquity = 23°28'44", Nutation = 0°00'08", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°15'47", Lahiri = 19°22'47"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1679

geocentric

MAY 1679 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	14 35 56	10836'21	9338	26847	11129	13821	22748	21140	13737	20847	10826	27R33	27A 9	25730	14752	M 1
T 2	14 39 52	11°34'24	23° 1	28°34	2°42	13°45	23° 2	21°47	13°40	20°48	10°27	27A31	27° 6	25°36	14°55	T 2
W 3	14 43 49	12°32'26	641	0118	3°55	14°10	23°16	21°53	13°43	20°49	10°28	27°D31	27° 2	25°43	14°59	W 3
T 4	14 47 46	13°30'27	20°37	1°58	5° 8	14°34	23°30	22° 0	13°46	20°49	10°29	27°31	26°59	25°50	15° 2	T 4
F 5	14 51 42	14°28'27	4848	3°34	6°21	14°59	23°44	22° 7	13°49	20°50	10°30	27°31	26°56	25°56	15° 5	F 5
S 6	14 55 39	15°26'25	19°14	5° 8	7°35	15°24	23°58	22°14	13°52	20°50	10°31	27°33	26°53	26° 3	15° 9	S 6
S 7	14 59 35	16°24'22	3750	6°37	8°48	15°49	24°12	22°21	13°55	20°51	10°32	27°34	26°50	26°10	15°12	S 7
M 8	15 3 32	17°22'17	18°32	8° 3	10° 1	16°15	24°26	22°27	13°58	20°52	10°33	27°35	26°46	26°16	15°15	M 8
T 9	15 7 28	18°20'11	3814	9°24	11°14	16°41	24°40	22°34	14° 1	20°52	10°34	27°R35	26°43	26°23	15°19	T 9
W10	15 11 25	19°18'04	17°50	10°42	12°27	17° 7	24°53	22°41	14° 4	20°52	10°35	27°34	26°40	26°30	15°22	W10
T 11	15 15 21	20°15'55	2113	11°57	13°40	17°33	25° 7	22°48	14° 7	20°53	10°36	27°32	26°37	26°36	15°25	T 11
F 12	15 19 18	21°13'45	16°18	13° 7	14°53	18° 0	25°21	22°55	14°10	20°53	10°37	27°29	26°34	26°43	15°28	F 12
S 13	15 23 15	22°11'34	29°59	14°13	16° 6	18°27	25°35	23° 2	14°13	20°54	10°38	27°25	26°31	26°50	15°31	S 13
S 14	15 27 11	23° 9'20	13818	15°15	17°19	18°54	25°48	23°10	14°16	20°54	10°39	27°22	26°27	26°56	15°34	S 14
M15	15 31 8	24° 7'06	26°13	16°13	18°32	19°21	26° 2	23°17	14°19	20°54	10°40	27°18	26°24	27° 3	15°37	M15
T 16	15 35 4	25° 4'49	8847	17° 7	19°44	19°48	26°15	23°24	14°22	20°55	10°41	27°16	26°21	27°10	15°40	T 16
W17	15 39 1	26° 2'31	21° 2	17°56	20°57	20°16	26°29	23°31	14°24	20°55	10°43	27°D15	26°18	27°16	15°43	W17
T 18	15 42 57	27° 0'11	3714	18°41	22°10	20°44	26°42	23°39	14°27	20°55	10°44	27°15	26°15	27°23	15°46	T 18
F 19	15 46 54	27°57'50	14°57	19°22	23°23	21°12	26°55	23°46	14°30	20°55	10°45	27°16	26°12	27°30	15°49	F 19
S 20	15 50 50	28°55'27	26°47	19°58	24°35	21°40	27° 9	23°53	14°32	20°55	10°46	27°18	26° 8	27°36	15°52	S 20
S 21	15 54 47	29°53'02	8837	20°29	25°48	22° 8	27°22	24° 1	14°35	20°55	10°47	27°19	26° 5	27°43	15°55	S 21
M22	15 58 44	01150'37	20°32	20°56	27° 1	22°37	27°35	24° 8	14°38	20°55	10°49	27°21	26° 2	27°50	15°58	M22
T 23	16 2 40	1°48'10	21136	21°19	28°13	23° 6	27°48	24°15	14°40	20°55	10°50	27°R21	25°59	27°56	16° 1	T 23
W24	16 6 37	2°45'41	14°53	21°36	29°26	23°35	28° 1	24°23	14°43	20°R55	10°51	27°19	25°56	28° 3	16° 4	W24
T 25	16 10 33	3°43'12	27°23	21°49	0838	24° 4	28°15	24°30	14°45	20°55	10°52	27°16	25°52	28°10	16° 6	T 25
F 26	16 14 30	4°40'41	10878	21°57	1°51	24°33	28°28	24°38	14°48	20°55	10°54	27°11	25°49	28°16	16° 9	F 26
S 27	16 18 26	5°38'10	23° 9	22°R 1	3° 3	25° 2	28°40	24°45	14°50	20°55	10°55	27° 6	25°46	28°23	16°12	S 27
S 28	16 22 23	6°35'37	6825	22° 0	4°15	25°32	28°53	24°53	14°53	20°55	10°56	26°59	25°43	28°30	16°14	S 28
M29	16 26 19	7°33'04	19°54	21°54	5°28	26° 2	29° 6	25° 1	14°55	20°55	10°57	26°53	25°40	28°36	16°17	M29
T 30	16 30 16	8°30'30	3834	21°45	6°40	26°32	29°19	25° 8	14°58	20°55	10°59	26°48	25°37	28°43	16°20	T 30
W31	16 34 13	91127'55	17825	21131	7852	2782	29731	25116	1570	20855	1180	26844	25833	28750	16722	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	15n 2	18s 7	5n 1	21n21	1n55	20n57	0n28	18n46	2n 1	7n53	1s 5	22n14	0s59	4n47	0s38	14s54
T 2	15 20	16 19	5 16	21 52	2 2	21 14	0 31	18 38	1 59	7 58	1 5	22 15	0 59	4 49	0 38	14 54
W 3	15 38	13 35	5 13	22 20	2 8	21 31	0 34	18 29	1 58	8 3	1 5	22 16	0 58	4 50	0 38	14 54
T 4	15 55	10 2	4 51	22 46	2 14	21 47	0 36	18 21	1 56	8 8	1 5	22 16	0 58	4 51	0 38	14 54
F 5	16 12	5 51	4 12	23 10	2 18	22 2	0 39	18 12	1 55	8 13	1 5	22 17	0 58	4 52	0 38	14 53
S 6	16 29	1 15	3 16	23 31	2 22	22 17	0 41	18 3	1 54	8 18	1 5	22 17	0 58	4 53	0 38	14 53
S 7	16 46	3n29	2 8	23 49	2 25	22 31	0 44	17 54	1 52	8 23	1 5	22 18	0 58	4 55	0 38	14 53
M 8	17 3	8 3	0 50	24 6	2 26	22 45	0 46	17 45	1 51	8 28	1 5	22 18	0 58	4 56	0 38	14 53
T 9	17 19	12 8	0s31	24 20	2 28	22 58	0 49	17 36	1 49	8 33	1 5	22 19	0 58	4 57	0 38	14 53
W10	17 35	15 25	1 50	24 31	2 28	23 10	0 51	17 27	1 48	8 38	1 5	22 19	0 57	4 58	0 39	14 53
T 11	17 50	17 42	3 0	24 41	2 27	23 22	0 54	17 17	1 46	8 43	1 5	22 20	0 57	4 59	0 39	14 52
F 12	18 6	18 50	3 57	24 49	2 25	23 33	0 56	17 8	1 45	8 48	1 5	22 20	0 57	5 0	0 39	14 52
S 13	18 21	18 50	4 39	24 54	2 23	23 43	0 58	16 58	1 44	8 53	1 5	22 21	0 57	5 1	0 39	14 52
S 14	18 36	17 45	5 5	24 58	2 19	23 53	1 1	16 48	1 42	8 58	1 6	22 21	0 57	5 2	0 39	14 52
M15	18 50	15 48	5 14	25 0	2 15	24 2	1 3	16 39	1 41	9 3	1 6	22 22	0 57	5 4	0 39	14 52
T 16	19 4	13 8	5 8	25 0	2 9	24 10	1 5	16 29	1 40	9 8	1 6	22 22	0 57	5 5	0 39	14 52
W17	19 18	9 58	4 48	24 58	2 3	24 17	1 7	16 19	1 38	9 13	1 6	22 23	0 56	5 6	0 39	14 52
T 18	19 31	6 26	4 15	24 55	1 56	24 24	1 10	16 9	1 37	9 17	1 6	22 23	0 56	5 7	0 39	14 52
F 19	19 44	2 41	3 32	24 50	1 47	24 30	1 12	15 58	1 36	9 22	1 6	22 24	0 56	5 8	0 39	14 52
S 20	19 57	1s10	2 40	24 44	1 38	24 36	1 14	15 48	1 35	9 27	1 6	22 24	0 56	5 9	0 39	14 52
S 21	20 10	4 58	1 41	24 36	1 28	24 41	1 16	15 38	1 33	9 32	1 6	22 25	0 56	5 10	0 39	14 52
M22	20 22	8 36	0 37	24 27	1 17	24 45	1 18	15 27	1 32	9 36	1 6	22 25	0 56	5 11	0 39	14 52
T 23	20 33	11 57	0n29	24 17	1 5	24 48	1 20	15 16	1 31	9 41	1 6	22 26	0 56	5 12	0 39	14 52
W24	20 45	14 49	1 34	24 5	0 53	24 51	1 22	15 6	1 30	9 46	1 6	22 26	0 56	5 13	0 39	14 52
T 25	20 56	17 4	2 36	23 53	0 39	24 52	1 24	14 55	1 28	9 50	1 6	22 26	0 56	5 14	0 39	14 52
F 26	21 6	18 31	3 32	23 39	0 25	24 54	1 26	14 44	1 27	9 55	1 6	22 27	0 55	5 15	0 39	14 52
S 27	21 17	19 1	4 18	23 24	0 10	24 54	1 27	14 33	1 26	9 59	1 6	22 27	0 55	5 16	0 39	14 52
S 28	21 27	18 29	4 50	23 8	0s 6	24 54	1 29	14 22	1 25	10 4	1 6	22 28	0 55	5 17	0 39	14 52
M29	21 36	16 56	5 8	22 52	0 22	24 53	1 31	14 10	1 24	10 8	1 7	22 28	0 55	5 17	0 39	14 52
T 30	21 46	14 24	5 8	22 35	0 39	24 51	1 33	13 59	1 22	10 13	1 7	22 28	0 55	5 18	0 39	14 52
W31	21n54	11s 2	4n50	22n17	0s56	24n49	1n34	13n48	1n21	10n17	1s 7	22n29	0s55	5n19	0s39	14s52

Julian Day Number = 2334422.5, Delta T = 24.04 sec
 Ecliptic obliquity = 23°28'43", Nutation = 0°00'07", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 20°15'51", Lahiri = 19°22'51"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1679

geocentric

JUNE 1679 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 38 9	10 ^{II} 25'19	1 [♂] 24	21°R13	9 [♂] 5 5	27 [♂] 32	29 [♂] 44	25 ^{II} 23	15 [♂] 2	20°R54	11 [♂] 1	26°R42	25 [♂] 30	28 [♂] 56	16 [♂] 25	T 1
F 2	16 42 6	11°22'43	15°31	20 ^{II} 52	10°17	28°2	29°57	25°31	15°4	20°R54	11°3	26°D42	25°27	29°3	16°27	F 2
S 3	16 46 2	12°20'06	29°43	20°27	11°29	28°33	0 [♂] 9	25°39	15°7	20°54	11°4	26 [♂] 43	25°24	29°10	16°30	S 3
S 4	16 49 59	13°17'29	13 [♂] 59	20°0	12°41	29°4	0°21	25°47	15°9	20°53	11°6	26°44	25°21	29°16	16°32	S 4
M 5	16 53 55	14°14'51	28°17	19°30	13°53	29°35	0°34	25°54	15°11	20°53	11°7	26°R44	25°18	29°23	16°34	M 5
T 6	16 57 52	15°12'12	12 [♂] 33	18°59	15°5	0 [♂] 6	0°46	26°2	15°13	20°53	11°8	26°43	25°14	29°30	16°37	T 6
W 7	17 1 48	16°9'33	26°45	18°26	16°17	0°37	0°58	26°10	15°15	20°52	11°10	26°40	25°11	29°36	16°39	W 7
T 8	17 5 45	17°6'54	10 ^{II} 47	17°53	17°29	1°8	1°10	26°18	15°17	20°52	11°11	26°35	25°8	29°43	16°41	T 8
F 9	17 9 42	18°4'14	24°36	17°19	18°41	1°40	1°22	26°25	15°19	20°51	11°13	26°27	25°5	29°49	16°43	F 9
S 10	17 13 38	19°1'33	8 [♂] 8	16°45	19°53	2°11	1°34	26°33	15°21	20°51	11°14	26°19	25°2	29°56	16°45	S 10
S 11	17 17 35	19°58'52	21°21	16°13	21°4	2°43	1°46	26°41	15°23	20°50	11°16	26°10	24°58	0 [♂] 3	16°47	S 11
M12	17 21 31	20°56'09	4 [♂] 13	15°42	22°16	3°15	1°58	26°49	15°25	20°50	11°17	26°1	24°55	0°9	16°49	M12
T 13	17 25 28	21°53'26	16°45	15°13	23°28	3°47	2°9	26°57	15°27	20°49	11°18	25°54	24°52	0°16	16°51	T 13
W14	17 29 24	22°50'42	29°0	14°47	24°40	4°19	2°21	27°4	15°28	20°48	11°20	25°49	24°49	0°23	16°53	W14
T 15	17 33 21	23°47'58	11 [♂] 2	14°24	25°51	4°51	2°33	27°12	15°30	20°48	11°21	25°47	24°46	0°29	16°55	T 15
F 16	17 37 17	24°45'12	22°56	14°4	27°3	5°24	2°44	27°20	15°32	20°47	11°23	25°D46	24°43	0°36	16°57	F 16
S 17	17 41 14	25°42'26	4 [♂] 45	13°47	28°14	5°56	2°55	27°28	15°33	20°46	11°24	25°46	24°39	0°43	16°59	S 17
S 18	17 45 11	26°39'40	16°36	13°35	29°26	6°29	3°7	27°36	15°35	20°45	11°26	25°47	24°36	0°49	17°1	S 18
M19	17 49 7	27°36'52	28°33	13°27	0 [♂] 37	7°2	3°18	27°44	15°37	20°45	11°27	25°R47	24°33	0°56	17°2	M19
T 20	17 53 4	28°34'05	10 ^{II} 42	13°D23	1°48	7°35	3°29	27°51	15°38	20°44	11°29	25°46	24°30	1°3	17°4	T 20
W21	17 57 0	29°31'16	23°7	13°24	3°0	8°8	3°40	27°59	15°40	20°43	11°30	25°43	24°27	1°9	17°6	W21
T 22	18 0 57	0 [♂] 28'28	5 [♂] 50	13°30	4°11	8°41	3°50	28°7	15°41	20°42	11°32	25°37	24°23	1°16	17°7	T 22
F 23	18 4 53	1°25'39	18°53	13°41	5°22	9°14	4°1	28°15	15°42	20°41	11°34	25°29	24°20	1°23	17°9	F 23
S 24	18 8 50	2°22'49	2 [♂] 15	13°56	6°33	9°47	4°12	28°23	15°44	20°40	11°35	25°19	24°17	1°29	17°10	S 24
S 25	18 12 46	3°20'00	15°56	14°16	7°44	10°21	4°22	28°30	15°45	20°39	11°37	25°9	24°14	1°36	17°12	S 25
M26	18 16 43	4°17'10	29°51	14°41	8°55	10°54	4°33	28°38	15°46	20°38	11°38	24°58	24°11	1°43	17°13	M26
T 27	18 20 40	5°14'21	13 [♂] 56	15°11	10°6	11°28	4°43	28°46	15°48	20°37	11°40	24°49	24°8	1°49	17°14	T 27
W28	18 24 36	6°11'31	28°7	15°46	11°17	12°2	4°53	28°54	15°49	20°36	11°41	24°42	24°4	1°56	17°16	W28
T 29	18 28 33	7°8'42	12 [♂] 20	16°25	12°28	12°36	5°4	29°2	15°50	20°35	11°43	24°38	24°1	2°3	17°17	T 29
F 30	18 32 29	8 [♂] 5'53	26 [♂] 32	17 ^{II} 9	13 [♂] 38	13 [♂] 10	5 [♂] 14	29 ^{II} 9	15 [♂] 51	20 [♂] 34	11 [♂] 44	24 [♂] 36	23 [♂] 58	2 [♂] 9	17 [♂] 18	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	22n 3	7s 1	4n15	21n59	1s13	24n45	1n36	13n36	1n20	10n21	1s 7	22n29	0s55	5n20	0s39	14s52	0s21	21n45	1s17	10s19	9s53	1s42	7n52	1n31	
F 2	22 11	2 35	3 24	21 40	1 30	24 41	1 37	13 24	1 19	10 26	1 7	22 30	0 55	5 21	0 39	14 53	0 21	21 45	1 17	10 19	9 51	1 43	7 53	1 31	
S 3	22 19	2n 2	2 21	21 21	1 47	24 37	1 38	13 13	1 18	10 30	1 7	22 30	0 55	5 22	0 39	14 53	0 21	21 44	1 17	10 19	9 50	1 45	7 54	1 31	
S 4	22 26	6 34	1 8	21 2	2 4	24 32	1 40	13 1	1 17	10 34	1 7	22 30	0 54	5 23	0 39	14 53	0 21	21 44	1 17	10 19	9 49	1 47	7 55	1 31	
M 5	22 33	10 45	0s 8	20 43	2 21	24 26	1 41	12 49	1 15	10 38	1 7	22 31	0 54	5 23	0 39	14 53	0 21	21 44	1 17	10 19	9 48	1 49	7 56	1 31	
T 6	22 39	14 17	1 24	20 25	2 37	24 19	1 42	12 37	1 14	10 43	1 7	22 31	0 54	5 24	0 39	14 53	0 21	21 44	1 17	10 19	9 47	1 51	7 57	1 31	
W 7	22 45	16 57	2 35	20 6	2 53	24 11	1 43	12 25	1 13	10 47	1 7	22 31	0 54	5 25	0 39	14 53	0 21	21 44	1 16	10 18	9 46	1 53	7 58	1 31	
T 8	22 51	18 34	3 35	19 49	3 7	24 3	1 44	12 13	1 12	10 51	1 7	22 32	0 54	5 26	0 39	14 53	0 21	21 44	1 16	10 16	9 45	1 55	7 58	1 31	
F 9	22 57	19 2	4 21	19 32	3 21	23 55	1 45	12 0	1 11	10 55	1 8	22 32	0 54	5 26	0 39	14 54	0 21	21 44	1 16	10 13	9 43	1 57	7 59	1 31	
S 10	23 1	18 23	4 51	19 16	3 34	23 45	1 46	11 48	1 10	10 59	1 8	22 32	0 54	5 27	0 39	14 54	0 21	21 44	1 16	10 10	9 42	1 59	8 0	1 31	
S 11	23 6	16 45	5 5	19 2	3 45	23 35	1 47	11 36	1 9	11 3	1 8	22 32	0 54	5 28	0 39	14 54	0 21	21 44	1 16	10 7	9 41	2 1	8 1	1 31	
M12	23 10	14 19	5 3	18 48	3 55	23 24	1 48	11 23	1 8	11 7	1 8	22 33	0 54	5 29	0 39	14 54	0 21	21 44	1 16	10 4	9 40	2 3	8 2	1 31	
T 13	23 14	11 17	4 46	18 37	4 4	23 13	1 48	11 10	1 7	11 11	1 8	22 33	0 54	5 29	0 39	14 54	0 21	21 44	1 16	10 1	9 39	2 5	8 2	1 31	
W14	23 17	7 49	4 17	18 26	4 12	23 1	1 49	10 58	1 6	11 15	1 8	22 33	0 53	5 30	0 39	14 55	0 21	21 44	1 16	10 0	9 38	2 6	8 3	1 31	
T 15	23 20	4 6	3 36	18 18	4 18	22 48	1 49	10 45	1 5	11 18	1 8	22 34	0 53	5 31	0 39	14 55	0 21	21 44	1 16	9 59	9 36	2 8	8 4	1 31	
F 16	23 22	0 16	2 47	18 11	4 23	22 35	1 50	10 32	1 4	11 22	1 8	22 34	0 53	5 31	0 39	14 55	0 21	21 44	1 16	9 58	9 35	2 10	8 5	1 31	
S 17	23 25	3s35	1 50	18 5	4 26	22 21	1 50	10 19	1 3	11 26	1 8	22 34	0 53	5 32	0 39	14 55	0 21	21 44	1 16	9 58	9 34	2 12	8 5	1 31	
S 18	23 26	7 17	0 49	18 2	4 28	22 6	1 51	10 6	1 2	11 30	1 9	22 34	0 53	5 32	0 39	14 56	0 21	21 44	1 16	9 59	9 33	2 14	8 6	1 31	
M19	23 27	10 45	0n15	18 0	4 29	21 51	1 51	9 53	1 1	11 33	1 9	22 34	0 53	5 33	0 39	14 56	0 21	21 44	1 16	9 59	9 32	2 16	8 7	1 31	
T 20	23 28	13 49	1 19	18 1	4 28	21 35	1 51	9 40	0 59	11 37	1 9	22 35	0 53	5 34	0 39	14 56	0 21	21 44	1 16	9 58	9 31	2 18	8 7	1 31	
W21	23 29	16 19	2 21	18 3	4 26	21 19	1 51	9 26	0 58	11 41	1 9	22 35	0 53	5 34	0 39	14 57	0 21	21 44	1 16	9 57	9 29	2 20	8 8	1 31	
T 22	23 29	18 5	3 17	18 7	4 23	21 2	1 51	9 13	0 57	11 44	1 9	22 35	0 53	5 35	0 39	14 57	0 21	21 43	1 15	9 55	9 28	2 22	8 9	1 31	
F 23	23 28	18 58	4 4	18 12	4 18	20 45	1 51	9 0	0 56	11 48	1 9	22 35	0 53	5 35	0 39	14 57	0 21	21 43	1 15	9 52	9 27	2 24	8 9	1 31	
S 24	23 27	18 49	4 39	18 19	4 13	20 27	1 50	8 46	0 55	11 51	1 9	22 35	0 53	5 36	0 39	14 57	0 21	21 43	1 15	9 49	9 26	2 26	8 10	1 31	
S 25	23 26	17 35	4 59	18 28	4 7	20 8	1 50	8 32	0 54	11 55	1 9	22 36	0 53	5 36	0 39	14 58	0 21	21 43	1 15	9 45	9 25	2 27	8 10	1 31	
M26	23 25	15 18	5 2	18 38	4 0	19 49	1 50	8 19	0 53	11 58	1 10	22 36	0 53	5 37	0 40	14 58	0 21	21 43	1 15	9 41	9 24	2 29	8 11	1 32	
T 27	23 22	12 6	4 46	18 49	3 51	19 30	1 49	8 5	0 53	12 1	1 10	22 36	0 52	5 37	0 40	14 58	0 21	21 43	1 15	9 38	9 22	2 31	8 11	1 32	
W28	23 20	8 11	4 13	19 2	3 43	19 10	1 49	7 51	0 52	12 5	1 10	22 36	0 52	5 37	0 40	14 59	0 21	21 43	1 15	9 35	9 21	2 33	8 12	1 32	
T 29	23 17	3 48	3 24	19 15	3 33	19 49	1 48	7 37	0 51	12 8	1 10	22 36	0 52	5 38	0 40	14 59	0 21	21 43	1 15	9 33	9 20	2 35	8 12	1 32	
F 30	23n14	0n48	2n23	19n30	3s23	18n28	1n47	7n23	0n50	12n11	1s10	22n36	0s52	5n38	0s40	15s 0	0s21	21n43	1s15	9s33	9s19	2s37	8n13	1n32	

geocentric

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Day	Sid.t	☉	☽	♈	♀	♂	♋	♌	♍	♎	♏	♐	♑	♒	♓	Day
S 1	18 36 26	9☾ 3'04	10♑41	17♊58	14♏49	13♎44	5♉24	29♊17	15♑52	20°R33	11☾46	24°D35	23♏55	2♌16	17♑19	S 1
S 2	18 40 22	10° 0'16	24°46	18°52	16° 0	14°18	5°33	29°25	15°53	20°32	11°47	24°R36	23°52	2°23	17°20	S 2
M 3	18 44 19	10°57'28	8♉46	19°50	17°10	14°52	5°43	29°33	15°54	20°31	11°49	24♌35	23°49	2°29	17°21	M 3
T 4	18 48 15	11°54'40	22°40	20°52	18°21	15°27	5°53	29°40	15°55	20°30	11°50	24°33	23°45	2°36	17°22	T 4
W 5	18 52 12	12°51'53	6♊26	21°59	19°31	16° 1	6° 2	29°48	15°56	20°28	11°52	24°28	23°42	2°43	17°23	W 5
T 6	18 56 9	13°49'06	20° 4	23°10	20°41	16°36	6°11	29°56	15°56	20°27	11°54	24°20	23°39	2°49	17°24	T 6
F 7	19 0 5	14°46'20	3☾31	24°26	21°52	17°11	6°20	0☾ 4	15°57	20°26	11°55	24° 9	23°36	2°56	17°25	F 7
S 8	19 4 2	15°43'34	16°44	25°45	23° 2	17°46	6°30	0°11	15°58	20°25	11°57	23°57	23°33	3° 3	17°25	S 8
S 9	19 7 58	16°40'48	29°42	27° 9	24°12	18°21	6°38	0°19	15°58	20°23	11°58	23°45	23°29	3° 9	17°26	S 9
M10	19 11 55	17°38'02	12♌24	28°37	25°22	18°56	6°47	0°27	15°59	20°22	12° 0	23°33	23°26	3°16	17°27	M10
T 11	19 15 51	18°35'17	24°49	0☾ 9	26°32	19°31	6°56	0°34	16° 0	20°21	12° 1	23°22	23°23	3°23	17°27	T 11
W12	19 19 48	19°32'32	7♎0	1°45	27°42	20° 6	7° 5	0°42	16° 0	20°19	12° 3	23°14	23°20	3°29	17°28	W12
T 13	19 23 44	20°29'47	19° 0	3°25	28°52	20°41	7°13	0°49	16° 0	20°18	12° 4	23° 9	23°17	3°36	17°28	T 13
F 14	19 27 41	21°27'02	0♌51	5° 8	0♎2	21°17	7°21	0°57	16° 1	20°17	12° 6	23° 6	23°14	3°42	17°29	F 14
S 15	19 31 38	22°24'17	12°39	6°54	1°11	21°52	7°29	1° 4	16° 1	20°15	12° 7	23° 5	23°10	3°49	17°29	S 15
S 16	19 35 34	23°21'33	24°30	8°44	2°21	22°28	7°37	1°12	16° 2	20°14	12° 9	23° 5	23° 7	3°56	17°29	S 16
M17	19 39 31	24°18'49	6♊27	10°37	3°30	23° 4	7°45	1°19	16° 2	20°12	12°10	23° 4	23° 4	4° 2	17°30	M17
T 18	19 43 27	25°16'05	18°38	12°32	4°40	23°40	7°53	1°27	16° 2	20°11	12°12	23° 3	23° 1	4° 9	17°30	T 18
W19	19 47 24	26°13'22	1♌ 6	14°30	5°49	24°16	8° 1	1°34	16° 2	20°10	12°14	23° 0	22°58	4°16	17°30	W19
T 20	19 51 20	27°10'39	13°56	16°30	6°58	24°52	8° 8	1°41	16° 2	20° 8	12°15	22°54	22°55	4°22	17°30	T 20
F 21	19 55 17	28° 7'56	27°10	18°32	8° 7	25°28	8°15	1°49	16° 2	20° 7	12°17	22°45	22°51	4°29	17°R30	F 21
S 22	19 59 13	29° 5'14	10☾48	20°36	9°16	26° 4	8°23	1°56	16°R 2	20° 5	12°18	22°35	22°48	4°36	17°30	S 22
S 23	20 3 10	0♏ 2'33	24°49	22°40	10°25	26°40	8°30	2° 3	16° 2	20° 4	12°20	22°24	22°45	4°42	17°30	S 23
M24	20 7 7	0°59'52	9♏ 8	24°46	11°34	27°17	8°36	2°10	16° 2	20° 2	12°21	22°12	22°42	4°49	17°30	M24
T 25	20 11 3	1°57'13	23°38	26°52	12°43	27°53	8°43	2°18	16° 2	20° 1	12°22	22° 2	22°39	4°56	17°30	T 25
W26	20 15 0	2°54'34	8♉14	28°58	13°51	28°29	8°50	2°25	16° 2	19°59	12°24	21°55	22°35	5° 2	17°29	W26
T 27	20 18 56	3°51'56	22°49	1♌ 4	15° 0	29° 6	8°56	2°32	16° 2	19°58	12°25	21°50	22°32	5° 9	17°29	T 27
F 28	20 22 53	4°49'19	7♑16	3° 9	16° 8	29° 6	9° 2	2°39	16° 1	19°56	12°27	21°47	22°29	5°16	17°29	F 28
S 29	20 26 49	5°46'43	21°34	5°15	17°16	0♏20	9° 8	2°46	16° 1	19°54	12°28	21°D47	22°26	5°22	17°28	S 29
S 30	20 30 46	6°44'09	5♉39	7°19	18°25	0°56	9°14	2°53	16° 1	19°53	12°30	21°R47	22°23	5°29	17°28	S 30
M31	20 34 42	7♌41'36	19♉31	9♏23	19♎33	1♏33	9♉20	3☾ 0	16♑0	19°55	12☾31	21♏47	22♏20	5♏36	17♑28	M31

Day	☉	☽		♊		♋		♌		♍		♎		♏		♐		♑	♒	♓	♈			
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat		
S 1	23n10	5n21	1n13	19n45	3s12	18n 7	1n46	7n 9	0n49	12n14	1s10	22n36	0s52	5n39	0s40	15s 0	0s21	21n43	1s15	9s33	9s18	2s39	8n13	1n32
S 2	23 6	9 35	0s 1	20 1	3 1	17 45	1 45	6 55	0 48	12 17	1 10	22 37	0 52	5 39	0 40	15 0	0 21	21 43	1 15	9 33	9 16	2 41	8 14	1 32
M 3	23 2	13 16	1 14	20 17	2 49	17 22	1 44	6 41	0 47	12 20	1 11	22 37	0 52	5 39	0 40	15 1	0 21	21 43	1 15	9 32	9 15	2 43	8 14	1 32
T 4	22 57	16 10	2 23	20 33	2 37	17 0	1 43	6 27	0 46	12 23	1 11	22 37	0 52	5 40	0 40	15 1	0 21	21 43	1 15	9 32	9 14	2 45	8 14	1 32
W 5	22 51	18 6	3 22	20 50	2 24	16 36	1 42	6 13	0 45	12 26	1 11	22 37	0 52	5 40	0 40	15 1	0 21	21 42	1 15	9 30	9 13	2 46	8 15	1 32
T 6	22 46	18 58	4 9	21 7	2 11	16 13	1 41	5 58	0 44	12 29	1 11	22 37	0 52	5 40	0 40	15 2	0 21	21 42	1 15	9 27	9 12	2 48	8 15	1 32
F 7	22 39	18 44	4 42	21 23	1 58	15 49	1 39	5 44	0 43	12 32	1 11	22 37	0 52	5 40	0 40	15 2	0 21	21 42	1 15	9 23	9 11	2 50	8 15	1 32
S 8	22 33	17 30	4 58	21 39	1 45	15 24	1 38	5 29	0 42	12 35	1 11	22 37	0 52	5 41	0 40	15 3	0 21	21 42	1 14	9 19	9 9	2 52	8 16	1 32
S 9	22 26	15 22	4 59	21 55	1 32	14 59	1 36	5 15	0 41	12 38	1 12	22 37	0 52	5 41	0 40	15 3	0 21	21 42	1 14	9 14	9 8	2 54	8 16	1 32
M10	22 19	12 33	4 45	22 10	1 19	14 34	1 35	5 0	0 40	12 40	1 12	22 37	0 52	5 41	0 40	15 4	0 21	21 42	1 14	9 9	9 7	2 56	8 16	1 32
T 11	22 11	9 14	4 17	22 24	1 5	14 9	1 33	4 46	0 39	12 43	1 12	22 37	0 52	5 41	0 40	15 4	0 21	21 42	1 14	9 6	9 6	2 58	8 16	1 32
W12	22 3	5 34	3 38	22 36	0 52	13 43	1 31	4 31	0 38	12 46	1 12	22 37	0 52	5 41	0 40	15 4	0 21	21 42	1 14	9 3	9 5	3 0	8 17	1 32
T 13	21 55	1 45	2 50	22 47	0 39	13 17	1 29	4 16	0 38	12 48	1 12	22 37	0 51	5 42	0 40	15 5	0 21	21 42	1 14	9 1	9 4	3 2	8 17	1 32
F 14	21 46	2s 6	1 55	22 57	0 26	12 50	1 27	4 1	0 37	12 51	1 12	22 37	0 51	5 42	0 40	15 5	0 21	21 42	1 14	9 0	9 2	3 3	8 17	1 32
S 15	21 37	5 51	0 55	23 5	0 13	12 23	1 25	3 47	0 36	12 53	1 12	22 37	0 51	5 42	0 40	15 6	0 21	21 42	1 14	8 59	9 1	3 5	8 17	1 32
S 16	21 27	9 23	0n 8	23 10	0 1	11 56	1 23	3 32	0 35	12 56	1 13	22 37	0 51	5 42	0 40	15 6	0 21	21 42	1 14	8 59	9 0	3 7	8 17	1 32
M17	21 17	12 35	1 10	23 14	0n11	11 29	1 20	3 17	0 34	12 58	1 13	22 37	0 51	5 42	0 40	15 7	0 21	21 42	1 14	8 59	8 59	3 9	8 17	1 32
T 18	21 7	15 18	2 11	23 15	0 22	11 1	1 18	3 2	0 33	13 1	1 13	22 37	0 51	5 42	0 40	15 7	0 21	21 41	1 14	8 58	8 56	3 11	8 18	1 32
W19	20 56	17 22	3 7	23 14	0 33	10 34	1 15	2 47	0 32	13 3	1 13	22 37	0 51	5 42	0 40	15 8	0 21	21 41	1 14	8 57	8 53	3 13	8 18	1 32
T 20	20 45	18 37	3 55	23 10	0 43	10 6	1 13	2 32	0 31	13 5	1 13	22 37	0 51	5 42	0 40	15 8	0 21	21 41	1 14	8 55	8 55	3 15	8 18	1 32
F 21	20 34	18 55	4 32	23 3	0 52	9 37	1 10	2 16	0 31	13 7	1 14	22 37	0 51	5 42	0 40	15 9	0 22	21 41	1 14	8 52	8 54	3 17	8 18	1 32
S 22	20 22	18 8	4 55	22 54	1 1	9 9	1 7	2 1	0 30	13 9	1 14	22 37	0 51	5 42	0 40	15 9	0 22	21 41	1 14	8 48	8 53	3 18	8 18	1 32
S 23	20 10	16 16	5 1	22 42	1 9	8 40	1 4	1 46	0 29	13 11	1 14	22 37	0 51	5 42	0 40	15 10	0 22	21 41	1 14	8 44	8 52	3 20	8 18	1 32
M24	19 58	13 22	4 48	22 28	1 16	8 11	1 1	1 31	0 28	13 13	1 14	22 37	0 51	5 42	0 40	15 10	0 22	21 41	1 14	8 40	8 51	3 22	8 18	1 32
T 25	19 45	9 37	4 17	22 10	1 23	7 42	0 58	1 16	0 27	13 15	1 14	22 37	0 51	5 42	0 40	15 11	0 22	21 41	1 14	8 36	8 49	3 24	8 18	1 32
W26	19 32	5 16	3 29	21 51	1 29	7 13	0 55	1 0	0 26	13 17	1 14	22 37	0 51	5 42	0 40	15 11	0 22	21 41	1 14	8 33	8 48	3 26	8 17	1 32
T 27	19 19	0 36	2 27	21 28	1 33	6 43	0 52	0 45	0 25	13 19	1 15	22 36	0 51	5 42	0 40	15 12	0 22	21 41	1 13	8 31	8 47	3 28	8 17	1 32
F 28	19 5	4n 3	1 16	21 4	1 37	6 14	0 49	0 29	0 25	13 21	1 15	22 36	0 51	5 41	0 40	15 12	0 22	21 41	1 13	8 30	8 46	3 30	8 17	1 32
S 29	18 51	8 26	0 1	20 37	1 41	5 44	0 45	0 14	0 24	13 23	1 15	22 36	0 51	5 41	0 40	15 13	0 22	21 40	1 13	8 30	8 45	3 32	8 17	1 32
S 30	18 37	12 17	1s13	20 8	1 43	5 14	0 42	0s 1	0 23	13 24	1 15	22 36	0 51	5 41	0 40	15 13	0 22	21 40	1 13	8 30	8 43	3 33	8 17	1 32
M31	18n23	15n22	2s22	19n37	1n45	4n44	0n38	0s17	0n22	13n26	1s15	22n36	0s51	5n41	0s41	15s14	0s22	21n40	1s13	8s30	8s42	3s35	8n17	1n32

Ayanamsha: Fagan/Bradley = 20°15'59, Lahiri = 19°23'00Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1679
geocentric

AUGUST 1679 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 38 39	8♌39°04	3♊11	11♋25	20♊41	2♈10	9♈26	3♈7	16°R 0	19°R50	12♈33	21°R44	22♈16	5♈42	17°R27	T 1
W 2	20 42 36	9°36'34	16°39	13°27	21°48	2°48	9°31	3°14	15°Y59	19°R48	12°34	21°♈40	22°13	5°49	17°Y26	W 2
T 3	20 46 32	10°34'05	29°55	15°27	22°56	3°25	9°36	3°20	15°59	19°46	12°35	21°33	22°10	5°56	17°26	T 3
F 4	20 50 29	11°31'37	13♈0	17°25	24° 4	4° 2	9°41	3°27	15°58	19°45	12°37	21°23	22° 7	6° 2	17°25	F 4
S 5	20 54 25	12°29'10	25°52	19°23	25°11	4°40	9°46	3°34	15°57	19°43	12°38	21°12	22° 4	6° 9	17°24	S 5
S 6	20 58 22	13°26'45	8♌31	21°19	26°18	5°17	9°51	3°41	15°57	19°42	12°40	21° 0	22° 1	6°15	17°23	S 6
M 7	21 2 18	14°24'21	20°58	23°13	27°26	5°55	9°56	3°47	15°56	19°40	12°41	20°49	21°57	6°22	17°22	M 7
T 8	21 6 15	15°21'58	3♊13	25° 6	28°33	6°32	10° 0	3°54	15°55	19°38	12°42	20°39	21°54	6°29	17°22	T 8
W 9	21 10 11	16°19'35	15°16	26°58	29°40	7°10	10° 4	4° 0	15°54	19°37	12°44	20°31	21°51	6°35	17°21	W 9
T 10	21 14 8	17°17'14	27°11	28°48	0♈46	7°48	10° 8	4° 7	15°53	19°35	12°45	20°26	21°48	6°42	17°20	T 10
F 11	21 18 5	18°14'55	9♈0	0♊37	1°53	8°26	10°12	4°13	15°52	19°33	12°46	20°23	21°45	6°49	17°18	F 11
S 12	21 22 1	19°12'36	20°46	2°24	2°59	9° 4	10°16	4°20	15°51	19°32	12°47	20°D22	21°41	6°55	17°17	S 12
S 13	21 25 58	20°10'18	2♊35	4°10	4° 6	9°42	10°19	4°26	15°50	19°30	12°49	20°23	21°38	7° 2	17°16	S 13
M14	21 29 54	21° 8'02	14°32	5°54	5°12	10°20	10°22	4°32	15°49	19°29	12°50	20°24	21°35	7° 9	17°15	M14
T 15	21 33 51	22° 5'46	26°41	7°37	6°18	10°58	10°25	4°38	15°48	19°27	12°51	20°R24	21°32	7°15	17°14	T 15
W16	21 37 47	23° 3'32	9♈8	9°18	7°24	11°37	10°28	4°44	15°47	19°25	12°53	20°22	21°29	7°22	17°12	W16
T 17	21 41 44	24° 1'19	21°58	10°59	8°29	12°15	10°31	4°50	15°46	19°24	12°54	20°19	21°26	7°29	17°11	T 17
F 18	21 45 40	24°59'07	5♈14	12°37	9°35	12°53	10°34	4°56	15°45	19°22	12°55	20°14	21°22	7°35	17° 9	F 18
S 19	21 49 37	25°56'56	18°57	14°15	10°40	13°32	10°36	5° 2	15°43	19°20	12°56	20° 6	21°19	7°42	17° 8	S 19
S 20	21 53 34	26°54'47	3♊8	15°50	11°45	14°11	10°38	5° 8	15°42	19°19	12°57	19°58	21°16	7°49	17° 6	S 20
M21	21 57 30	27°52'39	17°41	17°25	12°50	14°49	10°40	5°14	15°41	19°17	12°59	19°50	21°13	7°55	17° 5	M21
T 22	22 1 27	28°50'32	2♊31	18°58	13°55	15°28	10°42	5°20	15°39	19°16	13° 0	19°43	21°10	8° 2	17° 3	T 22
W23	22 5 23	29°48'27	17°29	20°30	14°59	16° 7	10°43	5°25	15°38	19°14	13° 1	19°37	21° 7	8° 9	17° 2	W23
T 24	22 9 20	0♊46'24	2♊26	22° 1	16° 3	16°46	10°45	5°31	15°36	19°12	13° 2	19°34	21° 3	8°15	17° 0	T 24
F 25	22 13 16	1°44'22	17°14	23°30	17° 7	17°25	10°46	5°36	15°35	19°11	13° 3	19°D33	21° 0	8°22	16°58	F 25
S 26	22 17 13	2°42'23	1♈48	24°58	18°11	18° 4	10°47	5°42	15°33	19° 9	13° 4	19°33	20°57	8°28	16°56	S 26
S 27	22 21 9	3°40'25	16° 4	26°24	19°15	18°43	10°48	5°47	15°32	19° 8	13° 5	19°35	20°54	8°35	16°54	S 27
M28	22 25 6	4°38'29	0♊1	27°49	20°18	19°22	10°48	5°53	15°30	19° 6	13° 6	19°R35	20°51	8°42	16°53	M28
T 29	22 29 3	5°36'35	13°37	29°12	21°21	20° 2	10°49	5°58	15°28	19° 4	13° 7	19°35	20°47	8°48	16°51	T 29
W30	22 32 59	6°34'44	26°56	0♈35	22°24	20°41	10°R49	6° 3	15°26	19° 3	13° 8	19°33	20°44	8°55	16°49	W30
T 31	22 36 56	7♊32'54	9♈58	1♈55	23♈27	21♈20	10♈49	6♈8	15°Y25	19°R1	13♈9	19♈30	20♈41	9♈2	16°Y47	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	18n 8	17n32	3s21	19n 5	1n46	4n14	0n35	0s32	0n21	13n28	1s16	22n36	0s51	5n41	0s41	15s14	0s22
W 2	17 52	18 41	4 8	18 31	1 46	3 44	0 31	0 48	0 21	13 29	1 16	22 36	0 51	5 41	0 41	15 15	0 22
T 3	17 37	18 47	4 41	17 55	1 46	3 13	0 27	1 3	0 20	13 31	1 16	22 36	0 51	5 40	0 41	15 15	0 22
F 4	17 21	17 53	4 59	17 18	1 45	2 43	0 23	1 19	0 19	13 32	1 16	22 36	0 51	5 40	0 41	15 16	0 22
S 5	17 5	16 4	5 1	16 40	1 44	2 13	0 19	1 35	0 18	13 33	1 16	22 35	0 50	5 40	0 41	15 16	0 22
S 6	16 49	13 31	4 49	16 1	1 41	1 42	0 15	1 50	0 17	13 35	1 17	22 35	0 50	5 39	0 41	15 17	0 22
M 7	16 32	10 23	4 22	15 21	1 39	1 12	0 11	2 6	0 16	13 36	1 17	22 35	0 50	5 39	0 41	15 17	0 22
T 8	16 15	6 52	3 44	14 40	1 36	0 41	0 7	2 22	0 16	13 37	1 17	22 35	0 50	5 39	0 41	15 18	0 22
W 9	15 58	3 6	2 56	13 59	1 32	0 11	0 3	2 37	0 15	13 38	1 17	22 35	0 50	5 38	0 41	15 18	0 22
T 10	15 41	0s43	2 1	13 17	1 28	0s20	0s 2	2 53	0 14	13 39	1 17	22 35	0 50	5 38	0 41	15 19	0 22
F 11	15 23	4 30	1 1	12 34	1 23	0 51	0 6	3 9	0 13	13 40	1 18	22 34	0 50	5 38	0 41	15 19	0 22
S 12	15 5	8 5	0n 2	11 51	1 18	1 21	0 11	3 24	0 13	13 41	1 18	22 34	0 50	5 37	0 41	15 20	0 22
S 13	14 47	11 22	1 5	11 8	1 13	1 52	0 15	3 40	0 12	13 42	1 18	22 34	0 50	5 37	0 41	15 20	0 22
M14	14 29	14 13	2 6	10 24	1 8	2 22	0 20	3 56	0 11	13 43	1 18	22 34	0 50	5 36	0 41	15 21	0 22
T 15	14 10	16 29	3 2	9 41	1 2	2 53	0 24	4 11	0 10	13 44	1 18	22 34	0 50	5 36	0 41	15 21	0 22
W16	13 51	18 3	3 51	8 57	0 55	3 23	0 29	4 27	0 9	13 45	1 19	22 33	0 50	5 35	0 41	15 22	0 22
T 17	13 32	18 44	4 30	8 13	0 49	3 54	0 34	4 43	0 9	13 45	1 19	22 33	0 50	5 35	0 41	15 23	0 22
F 18	13 13	18 26	4 56	7 29	0 42	4 24	0 39	4 59	0 8	13 46	1 19	22 33	0 50	5 35	0 41	15 23	0 22
S 19	12 53	17 4	5 7	6 45	0 35	4 54	0 44	5 14	0 7	13 46	1 19	22 33	0 50	5 34	0 41	15 24	0 22
S 20	12 34	14 38	4 59	6 1	0 28	5 24	0 49	5 30	0 6	13 47	1 19	22 33	0 50	5 33	0 41	15 24	0 22
M21	12 14	11 15	4 32	5 17	0 20	5 54	0 54	5 46	0 6	13 47	1 20	22 32	0 50	5 33	0 41	15 25	0 22
T 22	11 54	7 5	3 46	4 34	0 13	6 24	0 59	6 1	0 5	13 48	1 20	22 32	0 50	5 32	0 41	15 25	0 22
W23	11 33	2 26	2 44	3 51	0 5	6 54	1 4	6 17	0 4	13 48	1 20	22 32	0 50	5 32	0 41	15 26	0 22
T 24	11 13	2n22	1 31	3 8	0s 3	7 23	1 9	6 33	0 3	13 48	1 20	22 32	0 50	5 31	0 41	15 26	0 22
F 25	10 52	6 58	0 13	2 25	0 11	7 53	1 14	6 48	0 3	13 48	1 20	22 32	0 50	5 31	0 41	15 27	0 22
S 26	10 32	11 5	1s 6	1 43	0 19	8 22	1 20	7 4	0 2	13 48	1 21	22 31	0 50	5 30	0 41	15 27	0 22
S 27	10 11	14 28	2 19	1 1	0 28	8 51	1 25	7 20	0 1	13 48	1 21	22 31	0 50	5 29	0 41	15 28	0 22
M28	9 49	16 54	3 21	0 19	0 36	9 20	1 30	7 35	0 0	13 48	1 21	22 31	0 50	5 29	0 41	15 28	0 22
T 29	9 28	18 19	4 11	0s22	0 45	9 49	1 36	7 51	0s 0	13 48	1 21	22 31	0 50	5 28	0 41	15 29	0 22
W30	9 7	18 40	4 46	1 3	0 53	10 18	1 41	8 6	0 1	13 48	1 21	22 31	0 50	5 27	0 41	15 29	0 22
T 31	8n45	18n 1	5s 6	1s43	1s 2	10s46	1s47	8s22	0s 2	13n48	1s22	22n30	0s50	5n27	0s41	15s30	0s22

Julian Day Number = 2334514.5, Delta T = 23.90 sec
Ecliptic obliquity = 23°28'43", Nutation = 0°00'08", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'04", Lahiri = 19°23'04"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1679

geocentric

SEPTEMBER 1679 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 40 52	8♍31'06	22♌45	3♌14	24♌29	22♌0	10°R49	6♌13	15°R23	19°R0	13♌10	19°R24	20♌38	9♌8	16°R45	F 1
S 2	22 44 49	9°29'20	5♌19	4°32	25°31	22°40	10♌48	6°18	15°Y21	18°≈58	13°11	19♌18	20°35	9°15	16°Y43	S 2
S 3	22 48 45	10°27'36	17°42	5°48	26°33	23°19	10°48	6°23	15°19	18°57	13°12	19°10	20°32	9°22	16°40	S 3
M 4	22 52 42	11°25'54	29°54	7°2	27°35	23°59	10°47	6°28	15°17	18°55	13°13	19°4	20°28	9°28	16°38	M 4
T 5	22 56 38	12°24'14	11♍57	8°15	28°36	24°39	10°46	6°32	15°16	18°54	13°14	18°58	20°25	9°35	16°36	T 5
W 6	23 0 35	13°22'35	23°53	9°25	29°37	25°19	10°44	6°37	15°14	18°52	13°15	18°53	20°22	9°42	16°34	W 6
T 7	23 4 32	14°20'59	5♌42	10°34	0♍38	25°59	10°43	6°41	15°12	18°51	13°16	18°51	20°19	9°48	16°32	T 7
F 8	23 8 28	15°19'24	17°29	11°41	1°38	26°39	10°41	6°46	15°10	18°49	13°17	18°D50	20°16	9°55	16°29	F 8
S 9	23 12 25	16°17'51	29°15	12°45	2°38	27°19	10°40	6°50	15°8	18°48	13°17	18°50	20°12	10°1	16°27	S 9
S 10	23 16 21	17°16'19	11♍5	13°48	3°37	27°59	10°38	6°54	15°6	18°47	13°18	18°52	20°9	10°8	16°25	S 10
M 11	23 20 18	18°14'50	23°1	14°47	4°37	28°40	10°35	6°58	15°3	18°45	13°19	18°54	20°6	10°15	16°22	M 11
T 12	23 24 14	19°13'22	5♌10	15°45	5°36	29°20	10°33	7°3	15°1	18°44	13°20	18°55	20°3	10°21	16°20	T 12
W 13	23 28 11	20°11'55	17°35	16°39	6°34	0♍1	10°30	7°7	14°59	18°43	13°21	18°R56	20°0	10°28	16°17	W 13
T 14	23 32 7	21°10'31	0♌21	17°30	7°32	0°41	10°27	7°10	14°57	18°41	13°21	18°56	19°57	10°35	16°15	T 14
F 15	23 36 4	22°9'08	13°32	18°19	8°30	1°22	10°24	7°14	14°55	18°40	13°22	18°54	19°53	10°41	16°12	F 15
S 16	23 40 0	23°7'46	27°10	19°3	9°27	2°2	10°21	7°18	14°53	18°39	13°23	18°51	19°50	10°48	16°10	S 16
S 17	23 43 57	24°6'27	11≈17	19°44	10°24	2°43	10°18	7°22	14°51	18°37	13°23	18°48	19°47	10°55	16°7	S 17
M 18	23 47 54	25°5'09	25°50	20°21	11°20	3°24	10°14	7°25	14°48	18°36	13°24	18°45	19°44	11°1	16°5	M 18
T 19	23 51 50	26°3'53	10♌45	20°54	12°16	4°5	10°11	7°29	14°46	18°35	13°24	18°42	19°41	11°8	16°2	T 19
W 20	23 55 47	27°2'38	25°53	21°21	13°12	4°46	10°7	7°32	14°44	18°34	13°25	18°40	19°38	11°15	15°59	W 20
T 21	23 59 43	28°1'26	11°Y5	21°44	14°6	5°27	10°2	7°35	14°41	18°33	13°26	18°39	19°34	11°21	15°57	T 21
F 22	0 3 40	29°0'16	26°11	22°1	15°1	6°8	9°58	7°38	14°39	18°31	13°26	18°D39	19°31	11°28	15°54	F 22
S 23	0 7 36	29°59'08	11♌4	22°12	15°55	6°49	9°54	7°41	14°37	18°30	13°27	18°39	19°28	11°35	15°51	S 23
S 24	0 11 33	0♌58'02	25°36	22°R17	16°48	7°30	9°49	7°44	14°34	18°29	13°27	18°41	19°25	11°41	15°49	S 24
M 25	0 15 29	1°56'59	9♌45	22°15	17°40	8°12	9°44	7°47	14°32	18°28	13°28	18°42	19°22	11°48	15°46	M 25
T 26	0 19 26	2°55'58	23°28	22°6	18°32	8°53	9°39	7°50	14°30	18°27	13°28	18°43	19°18	11°54	15°43	T 26
W 27	0 23 23	3°54'59	6♌48	21°50	19°24	9°35	9°34	7°52	14°27	18°26	13°29	18°R43	19°15	12°1	15°40	W 27
T 28	0 27 19	4°54'03	19°45	21°26	20°14	10°16	9°29	7°55	14°25	18°25	13°29	18°42	19°12	12°8	15°38	T 28
F 29	0 31 16	5°53'09	2♌24	20°54	21°4	10°58	9°23	7°57	14°23	18°24	13°29	18°41	19°9	12°14	15°35	F 29
S 30	0 35 12	6♌52'17	14♌47	20♌14	21♌54	11♌39	9♌17	8♌0	14°Y20	18°≈23	13°30	18♌40	19♌6	12♌21	15°Y32	S 30

Day	☉	☽		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	8n23	16n28	5s 9	2s22	1s10	11s14	1s52	8s37	0s 2	13n48	1s22	22n30	0s50	5n26	0s41	15s30	0s22	21n38	1s12	7s36	8s 4	4s34	8n 0	1n32				
S 2	8 1	14 9	4 58	3 1	1 19	11 42	1 58	8 53	0 3	13 48	1 22	22 30	0 50	5 25	0 41	15 31	0 22	21 38	1 12	7 34	8 3	4 36	7 59	1 32				
S 3	7 39	11 13	4 33	3 39	1 28	12 10	2 3	9 8	0 4	13 47	1 22	22 30	0 50	5 25	0 41	15 31	0 22	21 38	1 12	7 31	8 2	4 38	7 58	1 32				
M 4	7 17	7 51	3 55	4 16	1 36	12 38	2 9	9 23	0 5	13 47	1 22	22 29	0 50	5 24	0 41	15 31	0 22	21 38	1 12	7 29	8 1	4 40	7 58	1 32				
T 5	6 55	4 12	3 8	4 53	1 45	13 5	2 14	9 39	0 5	13 46	1 23	22 29	0 50	5 23	0 41	15 32	0 22	21 38	1 12	7 26	7 59	4 42	7 57	1 32				
W 6	6 33	0 25	2 12	5 29	1 53	13 32	2 20	9 54	0 6	13 46	1 23	22 29	0 50	5 22	0 41	15 32	0 22	21 38	1 12	7 25	7 58	4 43	7 56	1 32				
T 7	6 10	3s22	1 11	6 3	2 2	13 59	2 25	10 9	0 7	13 45	1 23	22 29	0 50	5 21	0 41	15 33	0 22	21 38	1 12	7 24	7 57	4 45	7 55	1 31				
F 8	5 48	6 59	0 7	6 37	2 10	14 25	2 31	10 25	0 7	13 44	1 23	22 29	0 50	5 21	0 41	15 33	0 22	21 38	1 12	7 23	7 56	4 47	7 54	1 31				
S 9	5 25	10 20	0n57	7 10	2 18	14 51	2 37	10 40	0 8	13 44	1 23	22 28	0 50	5 20	0 41	15 34	0 22	21 37	1 12	7 23	7 55	4 49	7 53	1 31				
S 10	5 2	13 17	1 59	7 42	2 27	15 17	2 42	10 55	0 9	13 43	1 23	22 28	0 50	5 19	0 41	15 34	0 22	21 37	1 12	7 24	7 53	4 51	7 52	1 31				
M11	4 39	15 42	2 57	8 13	2 35	15 43	2 48	11 10	0 9	13 42	1 24	22 28	0 50	5 18	0 41	15 35	0 22	21 37	1 12	7 25	7 52	4 53	7 51	1 31				
T 12	4 16	17 28	3 48	8 42	2 42	16 8	2 53	11 25	0 10	13 41	1 24	22 28	0 50	5 17	0 41	15 35	0 22	21 37	1 12	7 25	7 51	4 54	7 50	1 31				
W13	3 53	18 26	4 29	9 10	2 50	16 33	2 59	11 40	0 11	13 40	1 24	22 27	0 50	5 17	0 41	15 36	0 22	21 37	1 12	7 26	7 50	4 56	7 49	1 31				
T 14	3 30	18 30	4 58	9 36	2 57	16 57	3 5	11 55	0 11	13 39	1 24	22 27	0 50	5 16	0 41	15 36	0 22	21 37	1 12	7 25	7 49	4 58	7 48	1 31				
F 15	3 7	17 36	5 13	10 1	3 4	17 22	3 10	12 9	0 12	13 38	1 24	22 27	0 50	5 15	0 41	15 36	0 22	21 37	1 12	7 25	7 47	5 0	7 47	1 31				
S 16	2 44	15 40	5 12	10 25	3 10	17 45	3 16	12 24	0 13	13 37	1 24	22 27	0 50	5 14	0 41	15 37	0 22	21 37	1 11	7 24	7 46	5 2	7 46	1 31				
S 17	2 21	12 45	4 51	10 46	3 17	18 9	3 21	12 39	0 14	13 36	1 25	22 27	0 50	5 13	0 41	15 37	0 22	21 37	1 11	7 23	7 45	5 3	7 45	1 31				
M18	1 57	8 59	4 12	11 5	3 22	18 32	3 27	12 53	0 14	13 34	1 25	22 26	0 50	5 12	0 41	15 38	0 22	21 37	1 11	7 21	7 44	5 5	7 44	1 31				
T 19	1 34	4 33	3 14	11 22	3 28	18 55	3 32	13 8	0 15	13 33	1 25	22 26	0 50	5 11	0 41	15 38	0 22	21 37	1 11	7 20	7 43	5 7	7 43	1 31				
W20	1 11	0n14	2 3	11 37	3 32	19 17	3 38	13 22	0 16	13 32	1 25	22 26	0 50	5 11	0 41	15 38	0 22	21 37	1 11	7 19	7 41	5 9	7 42	1 31				
T 21	0 47	5 2	0 42	11 49	3 36	19 39	3 43	13 37	0 16	13 30	1 25	22 26	0 50	5 10	0 41	15 39	0 22	21 37	1 11	7 19	7 40	5 11	7 41	1 31				
F 22	0 24	9 29	0s42	11 59	3 39	20 0	3 49	13 51	0 17	13 29	1 25	22 26	0 50	5 9	0 41	15 39	0 22	21 37	1 11	7 19	7 39	5 12	7 40	1 31				
S 23	0 0	13 15	2 1	12 5	3 42	20 22	3 54	14 5	0 17	13 27	1 26	22 26	0 50	5 8	0 41	15 39	0 22	21 37	1 11	7 19	7 38	5 14	7 39	1 31				
S 24	0s23	16 6	3 11	12 8	3 43	20 42	3 59	14 19	0 18	13 26	1 26	22 25	0 50	5 7	0 41	15 40	0 22	21 37	1 11	7 20	7 37	5 16	7 38	1 31				
M25	0 47	17 53	4 7	12 7	3 43	21 2	4 5	14 33	0 19	13 24	1 26	22 25	0 50	5 6	0 41	15 40	0 22	21 37	1 11	7 20	7 35	5 18	7 36	1 31				
T 26	1 10	18 33	4 47	12 3	3 42	21 22	4 10	14 47	0 19	13 22	1 26	22 25	0 50	5 5	0 41	15 40	0 22	21 37	1 11	7 21	7 34	5 20	7 35	1 31				
W27	1 34	18 8	5 10	11 55	3 40	21 42	4 15	15 1	0 20	13 20	1 26	22 25	0 50	5 4	0 41	15 41	0 22	21 37	1 11	7 21	7 33	5 21	7 34	1 31				
T 28	1 57	16 48	5 17	11 42	3 36	22 0	4 20	15 15	0 21	13 19	1 26	22 25	0 50	5 3	0 41	15 41	0 22	21 37	1 11	7 20	7 32	5 23	7 33	1 30				
F 29	2 20	14 39	5 8	11 25	3 30	22 19	4 25	15 29	0 21	13 17	1 26	22 25	0 50	5 2	0 41	15 41	0 22	21 37	1 11	7 20	7 31	5 25	7 32	1 30				
S 30	2s44	11n53	4s45	11s 3	3s23	22s37	4s30	15s42	0s22	13n15	1s26	22n25	0s50	5n 1	0s41	15s42	0s22	21n37	1s11	7s19	7s29	5s27	7n31	1n30				

ASTRODIENST EPHEMERIS for the year 1679
geocentric

OCTOBER 1679 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 39 9	7♂♂1'28	26♂♂57	19°R27	22♂♂42	12♂♂21	9°R12	8♂♂ 2	14°R18	18°R22	13♂♂30	18°R38	19♂♂ 3	12♂♂28	15°R29	S 1
M 2	0 43 5	8°50'41	8♂♂58	18♂♂33	23°30	13° 3	9♂♂ 6	8° 4	14°Y15	18♂♂21	13°30	18♂♂37	18°59	12°34	15°Y26	M 2
T 3	0 47 2	9°49'55	20°52	17°33	24°17	13°45	9° 0	8° 6	14°13	18°20	13°31	18°35	18°56	12°41	15°24	T 3
W 4	0 50 58	10°49'12	2♂♂41	16°27	25° 3	14°27	8°53	8° 8	14°11	18°19	13°31	18°35	18°53	12°48	15°21	W 4
T 5	0 54 55	11°48'31	14°28	15°18	25°48	15° 9	8°47	8°10	14° 8	18°19	13°31	18°D34	18°50	12°54	15°18	T 5
F 6	0 58 51	12°47'53	26°15	14° 7	26°33	15°51	8°40	8°11	14° 6	18°18	13°31	18°34	18°47	13° 1	15°15	F 6
S 7	1 2 48	13°47'16	8♂♂ 5	12°55	27°16	16°33	8°34	8°13	14° 3	18°17	13°32	18°35	18°43	13° 8	15°12	S 7
S 8	1 6 45	14°46'41	19°59	11°45	27°58	17°16	8°27	8°14	14° 1	18°16	13°32	18°35	18°40	13°14	15° 9	S 8
M 9	1 10 41	15°46'08	2♂♂ 1	10°39	28°40	17°58	8°20	8°16	13°58	18°16	13°32	18°35	18°37	13°21	15° 7	M 9
T 10	1 14 38	16°45'37	14°14	9°39	29°20	18°40	8°13	8°17	13°56	18°15	13°32	18°36	18°34	13°27	15° 4	T 10
W11	1 18 34	17°45'08	26°40	8°47	29°59	19°23	8° 6	8°18	13°53	18°14	13°32	18°36	18°31	13°34	15° 1	W11
T 12	1 22 31	18°44'40	9♂♂24	8° 3	0♂♂37	20° 5	7°58	8°19	13°51	18°14	13°32	18°R36	18°28	13°41	14°58	T 12
F 13	1 26 27	19°44'15	22°30	7°29	1°14	20°48	7°51	8°20	13°49	18°13	13°32	18°D36	18°24	13°47	14°55	F 13
S 14	1 30 24	20°43'51	5♂♂59	7° 6	1°50	21°31	7°44	8°21	13°46	18°13	13°R32	18°36	18°21	13°54	14°52	S 14
S 15	1 34 20	21°43'29	19°54	6°54	2°24	22°13	7°36	8°22	13°44	18°12	13°32	18°36	18°18	14° 1	14°50	S 15
M16	1 38 17	22°43'08	4♂♂14	6°D53	2°57	22°56	7°29	8°22	13°41	18°12	13°32	18°36	18°15	14° 7	14°47	M16
T 17	1 42 14	23°42'49	18°57	7° 4	3°28	23°39	7°21	8°23	13°39	18°11	13°32	18°37	18°12	14°14	14°44	T 17
W18	1 46 10	24°42'32	3°Y57	7°25	3°58	24°22	7°13	8°23	13°37	18°11	13°32	18°37	18° 9	14°21	14°41	W18
T 19	1 50 7	25°42'17	19° 8	7°56	4°27	25° 5	7° 5	8°23	13°34	18°10	13°32	18°R37	18° 5	14°27	14°38	T 19
F 20	1 54 3	26°42'04	4♂♂20	8°35	4°53	25°48	6°57	8°23	13°32	18°10	13°32	18°37	18° 2	14°34	14°36	F 20
S 21	1 58 0	27°41'53	19°23	9°24	5°19	26°31	6°49	8°R23	13°30	18°10	13°32	18°37	17°59	14°41	14°33	S 21
S 22	2 1 56	28°41'44	4♂♂ 8	10°19	5°42	27°14	6°41	8°23	13°27	18° 9	13°31	18°35	17°56	14°47	14°30	S 22
M23	2 5 53	29°41'37	18°30	11°22	6° 4	27°58	6°33	8°23	13°25	18° 9	13°31	18°34	17°53	14°54	14°27	M23
T 24	2 9 49	0♂♂1'32	2♂♂26	12°30	6°23	28°41	6°25	8°23	13°23	18° 9	13°31	18°33	17°49	15° 1	14°25	T 24
W25	2 13 46	1°41'30	15°53	13°43	6°41	29°24	6°17	8°22	13°20	18° 9	13°31	18°32	17°46	15° 7	14°22	W25
T 26	2 17 43	2°41'30	28°54	15° 0	6°57	0♂♂ 8	6° 9	8°22	13°18	18° 8	13°30	18°D31	17°43	15°14	14°19	T 26
F 27	2 21 39	3°41'32	11♂♂32	16°21	7°11	0°51	6° 1	8°21	13°16	18° 8	13°30	18°31	17°40	15°20	14°17	F 27
S 28	2 25 36	4°41'36	23°51	17°46	7°23	1°35	5°53	8°20	13°14	18° 8	13°30	18°32	17°37	15°27	14°14	S 28
S 29	2 29 32	5°41'42	5♂♂56	19°13	7°32	2°18	5°45	8°20	13°11	18° 8	13°29	18°33	17°34	15°34	14°11	S 29
M30	2 33 29	6°41'50	17°50	20°42	7°40	3° 2	5°37	8°19	13° 9	18°D 8	13°29	18°35	17°30	15°40	14° 9	M30
T 31	2 37 25	7♂♂42'00	29♂♂39	22♂♂13	7♂♂45	3♂♂46	5♂♂28	8♂♂17	13°Y 7	18♂♂ 8	13♂♂29	18♂♂37	17♂♂27	15♂♂47	14°Y 6	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
S 1	3s 7	8n39	4s 9	10s37	3s14	22s54	4s35	15s56	0s23	13n13	1s26	22n24	0s50	5n 1	0s41	15s42	0s22	21n37	1s11	7s19	7s28	5s29	7n30	1n30			
M 2	3 31	5 5	3 23	10 6	3 3	23 11	4 40	16 9	0 23	13 11	1 27	22 24	0 50	5 0	0 41	15 42	0 22	21 37	1 11	7 18	7 27	5 30	7 29	1 30			
T 3	3 54	1 22	2 28	9 31	2 50	23 28	4 44	16 22	0 24	13 9	1 27	22 24	0 50	4 59	0 41	15 42	0 22	21 37	1 11	7 18	7 26	5 32	7 27	1 30			
W 4	4 17	2s24	1 27	8 53	2 36	23 44	4 49	16 35	0 24	13 7	1 27	22 24	0 50	4 58	0 41	15 43	0 22	21 37	1 11	7 18	7 25	5 34	7 26	1 30			
T 5	4 41	6 4	0 23	8 11	2 19	23 59	4 53	16 48	0 25	13 5	1 27	22 24	0 50	4 57	0 41	15 43	0 22	21 37	1 11	7 17	7 23	5 36	7 25	1 30			
F 6	5 4	9 29	0n43	7 26	2 2	24 14	4 58	17 1	0 26	13 3	1 27	22 24	0 50	4 56	0 41	15 43	0 22	21 37	1 11	7 17	7 22	5 37	7 24	1 30			
S 7	5 27	12 33	1 46	6 41	1 42	24 28	5 2	17 14	0 26	13 0	1 27	22 24	0 50	4 55	0 41	15 43	0 22	21 37	1 11	7 18	7 21	5 39	7 23	1 30			
S 8	5 50	15 6	2 46	5 55	1 22	24 42	5 6	17 27	0 27	12 58	1 27	22 24	0 50	4 54	0 41	15 44	0 22	21 37	1 11	7 18	7 20	5 41	7 22	1 30			
M 9	6 13	17 1	3 39	5 10	1 2	24 56	5 10	17 39	0 27	12 56	1 27	22 24	0 50	4 53	0 41	15 44	0 22	21 37	1 11	7 18	7 18	5 43	7 20	1 30			
T 10	6 36	18 12	4 23	4 28	0 41	25 8	5 14	17 51	0 28	12 54	1 27	22 23	0 50	4 52	0 41	15 44	0 22	21 37	1 11	7 18	7 17	5 45	7 19	1 30			
W11	6 59	18 31	4 55	3 48	0 21	25 21	5 17	18 4	0 29	12 51	1 27	22 23	0 50	4 51	0 41	15 44	0 22	21 37	1 11	7 18	7 16	5 46	7 18	1 30			
T 12	7 21	17 55	5 14	3 13	0 1	25 32	5 21	18 16	0 29	12 49	1 27	22 23	0 50	4 50	0 41	15 44	0 22	21 37	1 11	7 18	7 15	5 48	7 17	1 29			
F 13	7 44	16 23	5 17	2 42	0n18	25 43	5 24	18 28	0 30	12 46	1 27	22 23	0 50	4 49	0 41	15 45	0 22	21 37	1 11	7 18	7 14	5 50	7 16	1 29			
S 14	8 6	13 54	5 4	2 17	0 35	25 54	5 27	18 40	0 30	12 44	1 27	22 23	0 50	4 48	0 41	15 45	0 22	21 37	1 11	7 18	7 12	5 52	7 14	1 29			
S 15	8 29	10 34	4 32	1 58	0 51	26 4	5 30	18 51	0 31	12 42	1 27	22 23	0 50	4 47	0 41	15 45	0 22	21 37	1 11	7 18	7 11	5 53	7 13	1 29			
M16	8 51	6 31	3 43	1 44	1 6	26 13	5 32	19 3	0 32	12 39	1 27	22 23	0 50	4 46	0 41	15 45	0 22	21 37	1 11	7 18	7 10	5 55	7 12	1 29			
T 17	9 13	1 58	2 38	1 36	1 19	26 21	5 35	19 14	0 32	12 37	1 27	22 23	0 50	4 46	0 41	15 45	0 22	21 37	1 10	7 18	7 9	5 57	7 11	1 29			
W18	9 35	2n49	1 21	1 34	1 30	26 30	5 37	19 25	0 33	12 34	1 27	22 23	0 50	4 45	0 41	15 45	0 22	21 37	1 10	7 19	7 8	5 59	7 10	1 29			
T 19	9 57	7 28	0s 3	1 37	1 40	26 37	5 39	19 36	0 33	12 32	1 27	22 23	0 50	4 44	0 41	15 46	0 22	21 37	1 10	7 19	7 6	6 1	7 9	1 29			
F 20	10 19	11 38	1 26	1 45	1 48	26 44	5 41	19 47	0 34	12 29	1 27	22 23	0 50	4 43	0 41	15 46	0 22	21 37	1 10	7 19	7 5	6 2	7 7	1 29			
S 21	10 40	14 59	2 43	1 58	1 55	26 50	5 42	19 58	0 34	12 26	1 27	22 23	0 50	4 42	0 41	15 46	0 22	21 37	1 10	7 18	7 4	6 4	7 6	1 29			
S 22	11 2	17 17	3 47	2 15	2 0	26 55	5 43	20 8	0 35	12 24	1 27	22 23	0 50	4 41	0 41	15 46	0 22	21 37	1 10	7 18	7 3	6 6	7 5	1 29			
M23	11 23	18 25	4 35	2 36	2 4	27 0	5 44	20 19	0 36	12 21	1 27	22 23	0 50	4 40	0 41	15 46	0 22	21 38	1 10	7 17	7 2	6 8	7 4	1 28			
T 24	11 44	18 22	5 3	3 0	2 6	27 4	5 44	20 29	0 36	12 19	1 27	22 23	0 50	4 39	0 41	15 46	0 22	21 38	1 10	7 17	7 0	6 9	7 3	1 28			
W25	12 5	17 17	5 17	3 27	2 8	27 7	5 44	20 39	0 37	12 16	1 27	22 23	0 50	4 38	0 41	15 46	0 22	21 38	1 10	7 16	6 59	6 11	7 2	1 28			
T 26	12 26	15 19	5 12	3 57	2 8	27 9	5 44	20 49	0 37	12 13	1 27	22 23	0 50	4 38	0 41	15 46	0 22	21 38	1 10	7 16	6 58	6 13	7 1	1 28			
F 27	12 46	12 40	4 52	4 28	2 8	27 11	5 44	20 59	0 38	12 11	1 27	22 23	0 50	4 37	0 41	15 46	0 22	21 38	1 10	7 16	6 57	6 15	6 59	1 28			
S 28	13 6	9 31	4 19	5 2	2 7	27 12	5 42	21 8	0 38	12 8	1 27	22 23	0 50	4 36	0 41	15 46	0 22	21 38	1 10	7 17	6 55	6 16	6 58	1 28			
S 29	13 27	6 1	3 35	5 37	2 5	27 12	5 41	21 17	0 39	12 6	1 27	22 23	0 50	4 35	0 41	15 46	0 22	21 38	1 10	7 17	6 54	6 18	6 57	1 28			
M30	13 46	2 19	2 42	6 13	2 2	27 12	5 39	21 26	0 39	12 3	1 27	22 24	0 50	4 34	0 41	15 46	0 22	21 38	1 10	7 18	6 53	6 20	6 56	1 28			
T 31	14s 6	1s26	1s43	6s50	1n59	27s10	5s36	21s35	0s40	12n 0	1s27	22n24	0s50	4n33	0s41	15s46	0s22	21n38	1s10	7s18	6s52	6s22	6n55	1n28			

ASTRODIENST EPHEMERIS for the year 1679

geocentric

NOVEMBER 1679 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 41 22	8♈42'12	11♏26	23♈45	7♈48	4♈30	5°R20	8°R16	13°R 5	18♈ 8	13°R28	18♈37	17♏24	15♏54	14°R 4	W 1
T 2	2 45 18	9°42'26	23°13	25°18	7°R49	5°14	5♈12	8♈15	13°Y 3	18° 8	13♈28	18°R38	17°21	16° 0	14°Y 1	T 2
F 3	2 49 15	10°42'42	5♈ 4	26°53	7°47	5°58	5° 4	8°13	13° 1	18° 8	13°27	18°37	17°18	16° 7	13°59	F 3
S 4	2 53 12	11°43'00	17° 1	28°28	7°42	6°42	4°56	8°12	12°59	18° 9	13°27	18°34	17°15	16°14	13°56	S 4
S 5	2 57 8	12°43'20	29° 6	0♈ 3	7°36	7°26	4°48	8°10	12°57	18° 9	13°26	18°31	17°11	16°20	13°54	S 5
M 6	3 1 5	13°43'41	11♏19	1°39	7°27	8°10	4°40	8° 9	12°55	18° 9	13°26	18°27	17° 8	16°27	13°51	M 6
T 7	3 5 1	14°44'04	23°44	3°15	7°15	8°54	4°32	8° 7	12°53	18° 9	13°25	18°22	17° 5	16°34	13°49	T 7
W 8	3 8 58	15°44'28	6♈20	4°52	7° 1	9°39	4°24	8° 5	12°51	18° 9	13°25	18°18	17° 2	16°40	13°47	W 8
T 9	3 12 54	16°44'54	19°11	6°28	6°45	10°23	4°16	8° 3	12°49	18°10	13°24	18°14	16°59	16°47	13°45	T 9
F 10	3 16 51	17°45'21	2♈17	8° 5	6°26	11° 7	4° 9	8° 0	12°47	18°10	13°24	18°12	16°55	16°53	13°42	F 10
S 11	3 20 47	18°45'50	15°41	9°41	6° 5	11°52	4° 1	7°58	12°45	18°11	13°23	18°D11	16°52	17° 0	13°40	S 11
S 12	3 24 44	19°46'19	29°25	11°17	5°42	12°36	3°53	7°56	12°43	18°11	13°22	18°11	16°49	17° 7	13°38	S 12
M13	3 28 41	20°46'50	13♈28	12°54	5°16	13°21	3°46	7°53	12°41	18°11	13°22	18°12	16°46	17°13	13°36	M13
T 14	3 32 37	21°47'23	27°51	14°30	4°49	14° 6	3°39	7°51	12°40	18°12	13°21	18°14	16°43	17°20	13°34	T 14
W15	3 36 34	22°47'56	12°Y31	16° 6	4°20	14°50	3°31	7°48	12°38	18°12	13°20	18°R15	16°40	17°27	13°32	W15
T 16	3 40 30	23°48'31	27°24	17°41	3°49	15°35	3°24	7°45	12°36	18°13	13°19	18°15	16°36	17°33	13°30	T 16
F 17	3 44 27	24°49'07	12♈23	19°17	3°17	16°20	3°17	7°42	12°35	18°14	13°19	18°13	16°33	17°40	13°28	F 17
S 18	3 48 23	25°49'44	27°19	20°53	2°43	17° 5	3°10	7°39	12°33	18°14	13°18	18° 9	16°30	17°47	13°26	S 18
S 19	3 52 20	26°50'23	12♈ 4	22°28	2° 8	17°50	3° 3	7°36	12°32	18°15	13°17	18° 4	16°27	17°53	13°24	S 19
M20	3 56 16	27°51'04	26°31	24° 3	1°33	18°35	2°56	7°33	12°30	18°15	13°16	17°57	16°24	18° 0	13°22	M20
T 21	4 0 13	28°51'46	10♈33	25°38	0°57	19°20	2°50	7°30	12°29	18°16	13°15	17°51	16°21	18° 7	13°20	T 21
W22	4 4 10	29°52'30	24° 8	27°13	0°20	20° 5	2°43	7°27	12°27	18°17	13°15	17°45	16°17	18°13	13°18	W22
T 23	4 8 6	0♈53'15	7♈16	28°47	29♈44	20°50	2°37	7°23	12°26	18°18	13°14	17°40	16°14	18°20	13°17	T 23
F 24	4 12 3	1°54'01	19°58	0♈22	29° 8	21°35	2°31	7°20	12°24	18°19	13°13	17°38	16°11	18°26	13°15	F 24
S 25	4 15 59	2°54'49	2♈19	1°56	28°32	22°20	2°25	7°16	12°23	18°19	13°12	17°D37	16° 8	18°33	13°13	S 25
S 26	4 19 56	3°55'39	14°24	3°31	27°56	23° 5	2°19	7°13	12°22	18°20	13°11	17°37	16° 5	18°40	13°12	S 26
M27	4 23 52	4°56'30	26°17	5° 5	27°22	23°51	2°13	7° 9	12°21	18°21	13°10	17°39	16° 1	18°46	13°10	M27
T 28	4 27 49	5°57'22	8♈ 5	6°39	26°49	24°36	2° 8	7° 5	12°20	18°22	13° 9	17°40	15°58	18°53	13° 9	T 28
W29	4 31 45	6°58'16	19°51	8°14	26°17	25°22	2° 2	7° 1	12°18	18°23	13° 8	17°R40	15°55	19° 0	13° 8	W29
T 30	4 35 42	7♈59'11	1♈41	9♈48	25♈47	26♈ 7	1♈57	6♈57	12°Y17	18♈24	13♈ 7	17♈39	15♈52	19♈ 6	13°Y 6	T 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	14s26	5s 8	0s40	7s27	1n55	27s 8	5s33	21s44	0s40	11n58	1s27	22n24	0s50	4n33	0s41	15s46
T 2	14 45	8 39	0n25	8 5	1 50	27 4	5 30	21 53	0 41	11 55	1 26	22 24	0 50	4 32	0 41	15 46
F 3	15 4	11 50	1 30	8 44	1 46	27 0	5 26	22 1	0 41	11 52	1 26	22 24	0 50	4 31	0 41	15 46
S 4	15 22	14 33	2 30	9 23	1 41	26 55	5 21	22 9	0 42	11 50	1 26	22 24	0 50	4 30	0 41	15 46
S 5	15 41	16 39	3 25	10 1	1 35	26 48	5 16	22 17	0 42	11 47	1 26	22 24	0 50	4 29	0 41	15 46
M 6	15 59	18 2	4 11	10 40	1 30	26 41	5 10	22 25	0 43	11 45	1 26	22 24	0 50	4 29	0 41	15 46
T 7	16 17	18 35	4 45	11 19	1 24	26 33	5 4	22 32	0 43	11 42	1 26	22 24	0 49	4 28	0 41	15 46
W 8	16 35	18 13	5 7	11 57	1 18	26 24	4 57	22 39	0 44	11 40	1 26	22 25	0 49	4 27	0 41	15 46
T 9	16 52	16 56	5 14	12 35	1 11	26 13	4 49	22 46	0 44	11 37	1 26	22 25	0 49	4 26	0 41	15 46
F 10	17 9	14 44	5 4	13 12	1 5	26 2	4 41	22 53	0 45	11 35	1 25	22 25	0 49	4 26	0 41	15 46
S 11	17 26	11 43	4 38	13 49	0 58	25 49	4 32	23 0	0 45	11 32	1 25	22 25	0 49	4 25	0 41	15 45
S 12	17 42	8 0	3 56	14 26	0 52	25 36	4 23	23 6	0 46	11 30	1 25	22 25	0 49	4 24	0 41	15 45
M13	17 59	3 45	2 59	15 1	0 45	25 21	4 12	23 12	0 46	11 28	1 25	22 25	0 49	4 24	0 41	15 45
T 14	18 15	0n49	1 49	15 37	0 38	25 5	4 1	23 18	0 47	11 25	1 25	22 26	0 49	4 23	0 41	15 45
W15	18 30	5 26	0 31	16 11	0 31	24 48	3 50	23 24	0 47	11 23	1 25	22 26	0 49	4 22	0 41	15 45
T 16	18 45	9 47	0s50	16 45	0 24	24 31	3 38	23 29	0 47	11 21	1 24	22 26	0 49	4 22	0 41	15 45
F 17	19 0	13 33	2 8	17 18	0 18	24 12	3 25	23 34	0 48	11 19	1 24	22 26	0 49	4 21	0 41	15 45
S 18	19 15	16 24	3 17	17 50	0 11	23 52	3 12	23 39	0 48	11 16	1 24	22 26	0 49	4 21	0 41	15 44
S 19	19 29	18 7	4 12	18 21	0 4	23 32	2 58	23 44	0 49	11 14	1 24	22 27	0 49	4 20	0 41	15 44
M20	19 43	18 37	4 49	18 52	0s 3	23 11	2 44	23 48	0 49	11 12	1 24	22 27	0 49	4 19	0 41	15 44
T 21	19 56	17 57	5 8	19 21	0 10	22 49	2 30	23 52	0 50	11 10	1 23	22 27	0 49	4 19	0 41	15 44
W22	20 9	16 15	5 8	19 50	0 16	22 27	2 15	23 56	0 50	11 8	1 23	22 27	0 49	4 18	0 41	15 43
T 23	20 22	13 46	4 53	20 18	0 23	22 4	2 0	24 0	0 50	11 6	1 23	22 27	0 49	4 18	0 41	15 43
F 24	20 35	10 41	4 23	20 44	0 29	21 42	1 44	24 3	0 51	11 4	1 23	22 28	0 49	4 17	0 41	15 43
S 25	20 47	7 13	3 41	21 10	0 36	21 18	1 29	24 7	0 51	11 3	1 22	22 28	0 49	4 17	0 40	15 43
S 26	20 58	3 32	2 50	21 35	0 42	20 55	1 13	24 9	0 52	11 1	1 22	22 28	0 49	4 16	0 40	15 42
M27	21 9	0s15	1 53	21 58	0 48	20 32	0 58	24 12	0 52	10 59	1 22	22 28	0 49	4 16	0 40	15 42
T 28	21 20	4 0	0 52	22 21	0 54	20 10	0 42	24 15	0 52	10 57	1 22	22 29	0 49	4 16	0 40	15 42
W29	21 31	7 36	0n12	22 42	1 0	19 47	0 27	24 17	0 53	10 56	1 21	22 29	0 49	4 15	0 40	15 42
T 30	21s41	10s54	1n15	23s 3	1s 6	19s25	0s11	24s18	0s53	10n54	1s21	22n29	0s49	4n15	0s40	15s41

Julian Day Number = 2334606.5, Delta T = 23.76 sec

Ecliptic obliquity = 23°28'43, Nutation = 0°00'04, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°16'16, Lahiri = 19°23'17Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1679
geocentric

DECEMBER 1679 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4 39 39	9♂ 0'07	13♂37	11♂22	25°R19	26♂53	1°R52	6°R53	12°R16	18♂25	13°R 6	17°R36	15♂49	19♂13	13°R 5	F 1
S 2	4 43 35	10° 1'04	25°43	12°56	24♂52	27°38	1♂47	6♂49	12°Y15	18°26	13♂ 5	17♂30	15°46	19°20	13°Y 4	S 2
S 3	4 47 32	11° 2'03	8♂ 1	14°30	24°27	28°24	1°43	6°45	12°14	18°27	13° 4	17°21	15°42	19°26	13° 2	S 3
M 4	4 51 28	12° 3'02	20°32	16° 5	24° 5	29°10	1°38	6°41	12°13	18°29	13° 3	17°11	15°39	19°33	13° 1	M 4
T 5	4 55 25	13° 4'02	3♂15	17°39	23°45	29°56	1°34	6°36	12°13	18°30	13° 2	17° 1	15°36	19°40	13° 0	T 5
W 6	4 59 21	14° 5'04	16°11	19°13	23°27	0♂41	1°30	6°32	12°12	18°31	13° 1	16°50	15°33	19°46	12°59	W 6
T 7	5 3 18	15° 6'05	29°19	20°47	23°12	1°27	1°26	6°28	12°11	18°32	13° 0	16°41	15°30	19°53	12°58	T 7
F 8	5 7 14	16° 7'08	12♂38	22°22	22°58	2°13	1°22	6°23	12°10	18°33	12°59	16°34	15°26	20° 0	12°57	F 8
S 9	5 11 11	17° 8'11	26° 8	23°56	22°48	2°59	1°18	6°19	12°10	18°35	12°58	16°29	15°23	20° 6	12°56	S 9
S 10	5 15 8	18° 9'14	9♂51	25°31	22°40	3°45	1°15	6°14	12° 9	18°36	12°56	16°27	15°20	20°13	12°55	S 10
M 11	5 19 4	19°10'18	23°45	27° 6	22°34	4°31	1°12	6° 9	12° 9	18°37	12°55	16°D27	15°17	20°19	12°55	M 11
T 12	5 23 1	20°11'22	7°Y51	28°40	22°31	5°17	1° 9	6° 5	12° 8	18°39	12°54	16°27	15°14	20°26	12°54	T 12
W 13	5 26 57	21°12'26	22° 9	0♂15	22°D30	6° 3	1° 6	6° 0	12° 8	18°40	12°53	16°R28	15°11	20°33	12°53	W 13
T 14	5 30 54	22°13'31	6♂36	1°50	22°32	6°49	1° 3	5°55	12° 7	18°42	12°52	16°26	15° 7	20°39	12°53	T 14
F 15	5 34 50	23°14'36	21° 9	3°25	22°36	7°36	1° 1	5°51	12° 7	18°43	12°51	16°22	15° 4	20°46	12°52	F 15
S 16	5 38 47	24°15'42	5♂43	5° 0	22°42	8°22	0°59	5°46	12° 7	18°45	12°50	16°15	15° 1	20°53	12°52	S 16
S 17	5 42 43	25°16'48	20°11	6°35	22°51	9° 8	0°57	5°41	12° 6	18°46	12°48	16° 5	14°58	20°59	12°51	S 17
M 18	5 46 40	26°17'54	4♂26	8° 9	23° 2	9°55	0°55	5°36	12° 6	18°48	12°47	15°54	14°55	21° 6	12°51	M 18
T 19	5 50 37	27°19'01	18°22	9°44	23°15	10°41	0°54	5°31	12° 6	18°49	12°46	15°42	14°52	21°13	12°51	T 19
W 20	5 54 33	28°20'09	1♂56	11°19	23°31	11°27	0°52	5°26	12° 6	18°51	12°45	15°31	14°48	21°19	12°50	W 20
T 21	5 58 30	29°21'16	15° 5	12°53	23°48	12°14	0°51	5°22	12°D 6	18°52	12°43	15°21	14°45	21°26	12°50	T 21
F 22	6 2 26	0♂22'25	27°51	14°27	24° 8	13° 0	0°50	5°17	12° 6	18°54	12°42	15°14	14°42	21°33	12°50	F 22
S 23	6 6 23	1°23'33	10♂15	16° 0	24°29	13°47	0°49	5°12	12° 6	18°56	12°41	15°10	14°39	21°39	12°50	S 23
S 24	6 10 19	2°24'43	22°21	17°33	24°52	14°33	0°49	5° 7	12° 6	18°57	12°40	15° 8	14°36	21°46	12°D50	S 24
M 25	6 14 16	3°25'52	4♂16	19° 5	25°18	15°20	0°49	5° 2	12° 6	18°59	12°39	15°D 8	14°32	21°53	12°50	M 25
T 26	6 18 12	4°27'02	16° 4	20°37	25°45	16° 7	0°D49	4°57	12° 7	19° 1	12°37	15°R 8	14°29	21°59	12°50	T 26
W 27	6 22 9	5°28'13	27°51	22° 7	26°13	16°53	0°49	4°52	12° 7	19° 3	12°36	15° 7	14°26	22° 6	12°50	W 27
T 28	6 26 6	6°29'24	9♂43	23°35	26°43	17°40	0°49	4°47	12° 7	19° 4	12°35	15° 5	14°23	22°12	12°50	T 28
F 29	6 30 2	7°30'35	21°44	25° 2	27°15	18°27	0°49	4°42	12° 7	19° 6	12°34	15° 0	14°20	22°19	12°51	F 29
S 30	6 33 59	8°31'46	3♂58	26°27	27°48	19°13	0°50	4°37	12° 8	19° 8	12°32	14°52	14°17	22°26	12°51	S 30
S 31	6 37 55	9♂32'58	16♂28	27♂49	28♂23	20♂ 0	0♂51	4♂32	12°Y 8	19♂10	12♂31	14♂42	14♂13	22♂32	12°Y51	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	21s50	13s48	2n15	23s22	1s12	19s 4	0n 4	24s20	0s54	10n53	1s21	22n29	0s49	4n14	0s40	F 1
S 2	21 59	16 9	3 10	23 40	1 17	18 43	0 19	24 21	0 54	10 51	1 21	22 30	0 48	4 14	0 40	S 2
S 3	22 8	17 47	3 57	23 56	1 22	18 23	0 33	24 22	0 54	10 50	1 20	22 30	0 48	4 14	0 40	S 3
M 4	22 16	18 36	4 33	24 12	1 27	18 4	0 47	24 23	0 55	10 49	1 20	22 30	0 48	4 13	0 40	M 4
T 5	22 24	18 30	4 56	24 26	1 32	17 45	1 1	24 24	0 55	10 47	1 20	22 31	0 48	4 13	0 40	T 5
W 6	22 32	17 27	5 5	24 39	1 37	17 28	1 14	24 24	0 55	10 46	1 19	22 31	0 48	4 13	0 40	W 6
T 7	22 39	15 28	4 58	24 51	1 41	17 12	1 27	24 24	0 56	10 45	1 19	22 31	0 48	4 13	0 40	T 7
F 8	22 45	12 39	4 34	25 1	1 46	16 56	1 40	24 24	0 56	10 44	1 19	22 31	0 48	4 12	0 40	F 8
S 9	22 51	9 8	3 55	25 10	1 50	16 42	1 52	24 23	0 56	10 43	1 19	22 32	0 48	4 12	0 40	S 9
S 10	22 57	5 4	3 3	25 17	1 53	16 29	2 3	24 22	0 57	10 42	1 18	22 32	0 48	4 12	0 40	S 10
M 11	23 2	0 41	1 58	25 23	1 57	16 17	2 14	24 21	0 57	10 41	1 18	22 32	0 48	4 12	0 40	M 11
T 12	23 7	3n49	0 46	25 28	2 0	16 6	2 25	24 20	0 57	10 40	1 18	22 33	0 48	4 12	0 40	T 12
W 13	23 11	8 10	0s30	25 31	2 3	15 56	2 34	24 18	0 58	10 40	1 17	22 33	0 48	4 11	0 40	W 13
T 14	23 15	12 5	1 45	25 33	2 5	15 47	2 44	24 16	0 58	10 39	1 17	22 33	0 48	4 11	0 40	T 14
F 15	23 18	15 17	2 54	25 33	2 7	15 40	2 53	24 14	0 58	10 39	1 17	22 33	0 48	4 11	0 40	F 15
S 16	23 21	17 31	3 51	25 32	2 9	15 33	3 1	24 11	0 59	10 38	1 16	22 34	0 47	4 11	0 40	S 16
S 17	23 24	18 35	4 32	25 29	2 11	15 28	3 9	24 8	0 59	10 38	1 16	22 34	0 47	4 11	0 40	S 17
M 18	23 26	18 28	4 56	25 25	2 12	15 23	3 17	24 5	0 59	10 38	1 16	22 34	0 47	4 11	0 40	M 18
T 19	23 27	17 14	5 2	25 19	2 12	15 20	3 24	24 2	0 59	10 37	1 16	22 35	0 47	4 11	0 40	T 19
W 20	23 28	15 3	4 50	25 11	2 12	15 17	3 30	23 58	1 0	10 37	1 15	22 35	0 47	4 11	0 40	W 20
T 21	23 29	12 9	4 23	25 2	2 12	15 15	3 36	23 55	1 0	10 37	1 15	22 35	0 47	4 11	0 40	T 21
F 22	23 29	8 45	3 43	24 52	2 11	15 15	3 42	23 50	1 0	10 37	1 15	22 35	0 47	4 11	0 39	F 22
S 23	23 28	5 3	2 54	24 40	2 9	15 15	3 47	23 46	1 0	10 37	1 14	22 36	0 47	4 11	0 39	S 23
S 24	23 27	1 14	1 58	24 26	2 7	15 15	3 52	23 41	1 1	10 37	1 14	22 36	0 47	4 11	0 39	S 24
M 25	23 26	2s35	0 57	24 11	2 5	15 17	3 57	23 36	1 1	10 37	1 14	22 36	0 47	4 11	0 39	M 25
T 26	23 24	6 15	0n 5	23 54	2 1	15 19	4 1	23 31	1 1	10 38	1 13	22 37	0 47	4 11	0 39	T 26
W 27	23 22	9 41	1 7	23 36	1 57	15 22	4 5	23 25	1 1	10 38	1 13	22 37	0 46	4 12	0 39	W 27
T 28	23 19	12 45	2 6	23 15	1 53	15 26	4 8	23 20	1 2	10 38	1 13	22 37	0 46	4 12	0 39	T 28
F 29	23 16	15 19	3 1	22 55	1 47	15 30	4 11	23 14	1 2	10 39	1 12	22 38	0 46	4 12	0 39	F 29
S 30	23 12	17 14	3 48	22 33	1 41	15 35	4 14	23 7	1 2	10 39	1 12	22 38	0 46	4 12	0 39	S 30
S 31	23s 8	18s24	4n25	22s10	1s34	15s40	4n16	23s 1	1s 2	10n40	1s12	22n38	0s46	4n12	0s39	S 31

Julian Day Number = 2334636.5, Delta T = 23.71 sec
Ecliptic obliquity = 23°28'42, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°16'20, Lahiri = 19°23'21Greg. Calendar