



Astrodienst Ephemeris Tables for the year 1582

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 1582
geocentric

JANUARY 1582 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	6 40 51	10 ²¹ 43	22 ¹¹ 50	25 ⁰⁴ R41	18 ³³ 36	24 ¹⁷ 55	24 ³⁵ 59	25 ³³ 35	17 ³³ 3	16 ⁰⁸ 56	2 ¹⁷ 51	19 ⁰⁸ R12	19 ³³ 37	24 ¹⁷ 57	6 ¹⁷ 19	F 1
S 2	6 44 47	11 ⁰² 22'54	5 ¹⁷ 42	25 ⁰³ 24	19 ⁴⁸	25 ⁴⁰	25 ¹³	25 ⁴¹	17 ⁰⁶	16 ⁵⁵ 54	2 ⁵²	19 ³³ 10	19 ³⁴	25 ⁰⁴	6 ²⁰	S 2
S 3	6 48 44	12 ²⁴ 06	18 ⁵⁵	24 ⁵⁵	21 ⁰¹	26 ²⁵	25 ²⁷	25 ⁴⁷	17 ⁰⁹	16 ⁵²	2 ⁵²	19 ¹⁰	19 ³¹	25 ¹⁰	6 ²¹	S 3
M 4	6 52 40	13 ²⁵ 18	2 ³³ 28	24 ¹⁵	22 ¹³	27 ¹⁰	25 ⁴¹	25 ⁵³	17 ¹²	16 ⁵¹	2 ⁵³	19 ⁰⁹	19 ²⁷	25 ¹⁷	6 ²²	M 4
T 5	6 56 37	14 ²⁶ 29	16 ²¹	23 ²⁴	23 ²⁶	27 ⁵⁵	25 ⁵⁵	25 ⁵⁹	17 ¹⁵	16 ⁴⁹	2 ⁵³	19 ⁰⁹	19 ²⁴	25 ²⁴	6 ²³	T 5
W 6	7 0 33	15 ²⁷ 40	0 ³³ 29	22 ²³	24 ³⁸	28 ⁴⁰	26 ⁰⁹	26 ⁰⁵	17 ¹⁸	16 ⁴⁷	2 ⁵³	19 ⁰⁹	19 ²¹	25 ³⁰	6 ²⁴	W 6
T 7	7 4 30	16 ²⁸ 50	14 ⁴⁹	21 ¹⁴	25 ⁵⁰	29 ²⁵	26 ²³	26 ¹¹	17 ²¹	16 ⁴⁶	2 ⁵⁴	19 ⁰⁹	19 ¹⁸	25 ³⁷	6 ²⁶	T 7
F 8	7 8 26	17 ³⁰ 00	29 ¹⁵	20 ⁰⁰	27 ⁰²	0 ³³ 10	26 ³⁷	26 ¹⁷	17 ²⁴	16 ⁴⁴	2 ⁵⁴	19 ⁰⁹	19 ¹⁵	25 ⁴⁴	6 ²⁷	F 8
S 9	7 12 23	18 ³¹ 10	13 ¹⁴ 42	18 ⁴²	28 ¹⁴	0 ⁵⁵	26 ⁵¹	26 ²⁴	17 ²⁷	16 ⁴²	2 ⁵⁵	19 ⁰⁹	19 ¹²	25 ⁵¹	6 ²⁸	S 9
S 10	7 16 20	19 ³² 18	28 ⁰⁵	17 ²³	29 ²⁶	1 ⁴⁰	27 ⁰⁵	26 ³⁰	17 ³⁰	16 ⁴¹	2 ⁵⁵	19 ⁰⁹	19 ⁰⁸	25 ⁵⁷	6 ²⁹	S 10
M11	7 20 16	20 ³³ 26	12 ¹⁷ 22	16 ⁰⁵	0 ¹⁴ 38	2 ²⁵	27 ¹⁹	26 ³⁶	17 ³³	16 ³⁹	2 ⁵⁶	19 ⁰⁹	19 ⁰⁵	26 ⁰⁴	6 ³¹	M11
T 12	7 24 13	21 ³⁴ 32	26 ²⁸	14 ⁵²	1 ⁴⁹	3 ¹⁰	27 ³⁴	26 ⁴³	17 ³⁷	16 ³⁷	2 ⁵⁷	19 ⁰⁹	19 ⁰²	26 ¹¹	6 ³²	T 12
W13	7 28 9	22 ³⁵ 38	10 ¹⁸ 24	13 ⁴³	3 ⁰¹	3 ⁵⁶	27 ⁴⁸	26 ⁴⁹	17 ⁴⁰	16 ³⁵	2 ⁵⁷	19 ¹⁰	18 ⁵⁹	26 ¹⁷	6 ³⁴	W13
T 14	7 32 6	23 ³⁶ 43	24 ⁰⁷	12 ⁴²	4 ¹³	4 ⁴¹	28 ⁰²	26 ⁵⁵	17 ⁴³	16 ³⁴	2 ⁵⁸	19 ¹⁰	18 ⁵⁶	26 ²⁴	6 ³⁵	T 14
F 15	7 36 2	24 ³⁷ 47	7 ¹¹ 37	11 ⁴⁹	5 ²⁴	5 ²⁶	28 ¹⁶	27 ⁰²	17 ⁴⁶	16 ³²	2 ⁵⁸	19 ¹⁰	18 ⁵²	26 ³¹	6 ³⁷	F 15
S 16	7 39 59	25 ³⁸ 51	20 ⁵⁴	11 ⁰⁵	6 ³⁵	6 ¹²	28 ³⁰	27 ⁰⁹	17 ⁵⁰	16 ³⁰	2 ⁵⁹	19 ¹¹	18 ⁴⁹	26 ³⁸	6 ³⁸	S 16
S 17	7 43 55	26 ³⁹ 53	3 ⁵⁶ 59	10 ³¹	7 ⁴⁶	6 ⁵⁷	28 ⁴⁵	27 ¹⁵	17 ⁵³	16 ²⁹	3 ⁰⁰	19 ¹²	18 ⁴⁶	26 ⁴⁴	6 ⁴⁰	S 17
M18	7 47 52	27 ⁴⁰ 54	16 ⁵⁰	10 ⁰⁵	8 ⁵⁸	7 ⁴³	28 ⁵⁹	27 ²²	17 ⁵⁶	16 ²⁷	3 ⁰⁰	19 ¹²	18 ⁴³	26 ⁵¹	6 ⁴²	M18
T 19	7 51 49	28 ⁴¹ 55	29 ²⁹	9 ⁴⁹	10 ⁰⁸	8 ²⁸	29 ¹³	27 ²⁸	18 ⁰⁰	16 ²⁵	3 ⁰¹	19 ¹²	18 ⁴⁰	26 ⁵⁸	6 ⁴³	T 19
W20	7 55 45	29 ⁴² 55	11 ¹² 55	9 ⁰⁴ D41	11 ¹⁹	9 ¹⁴	29 ²⁷	27 ³⁵	18 ⁰³	16 ²⁴	3 ⁰²	19 ¹¹	18 ³⁷	27 ⁰⁴	6 ⁴⁵	W20
T 21	7 59 42	0 ³³ 43'54	24 ¹⁰	9 ⁴¹	12 ³⁰	9 ⁵⁹	29 ⁴¹	27 ⁴²	18 ⁰⁶	16 ²²	3 ⁰³	19 ¹⁰	18 ³³	27 ¹¹	6 ⁴⁷	T 21
F 22	8 3 38	1 ⁴⁴ 52	6 ¹⁷ 15	9 ⁴⁹	13 ⁴¹	10 ⁴⁵	29 ⁵⁶	27 ⁴⁹	18 ¹⁰	16 ²⁰	3 ⁰⁴	19 ⁰⁸	18 ³⁰	27 ¹⁸	6 ⁴⁹	F 22
S 23	8 7 35	2 ⁴⁵ 49	18 ¹³	10 ⁰⁴	14 ⁵¹	11 ³⁰	0 ³³ 10	27 ⁵⁶	18 ¹³	16 ¹⁹	3 ⁰⁴	19 ⁰⁶	18 ²⁷	27 ²⁵	6 ⁵¹	S 23
S 24	8 11 31	3 ⁴⁶ 45	0 ¹⁵ 6	10 ²⁵	16 ⁰¹	12 ¹⁶	0 ²⁴	28 ⁰²	18 ¹⁶	16 ¹⁷	3 ⁰⁵	19 ⁰⁴	18 ²⁴	27 ³¹	6 ⁵³	S 24
M25	8 15 28	4 ⁴⁷ 41	11 ⁵⁷	10 ⁵³	17 ¹²	13 ⁰²	0 ³⁸	28 ⁰⁹	18 ²⁰	16 ¹⁶	3 ⁰⁶	19 ⁰²	18 ²¹	27 ³⁸	6 ⁵⁵	M25
T 26	8 19 24	5 ⁴⁸ 35	23 ⁵²	11 ²⁶	18 ²²	13 ⁴⁷	0 ⁵³	28 ¹⁶	18 ²³	16 ¹⁴	3 ⁰⁷	19 ⁰⁰	18 ¹⁸	27 ⁴⁵	6 ⁵⁷	T 26
W27	8 23 21	6 ⁴⁹ 29	5 ¹¹ 53	12 ⁰⁴	19 ³²	14 ³³	1 ⁰⁷	28 ²³	18 ²⁷	16 ¹²	3 ⁰⁸	19 ⁰⁰	18 ¹⁴	27 ⁵¹	7 ⁰⁰	W27
T 28	8 27 18	7 ⁵⁰ 23	18 ⁰⁶	12 ⁴⁷	20 ⁴²	15 ¹⁹	1 ²¹	28 ³⁰	18 ³⁰	16 ¹¹	3 ⁰⁹	19 ⁰⁰	18 ¹¹	27 ⁵⁸	7 ⁰²	T 28
F 29	8 31 14	8 ⁵¹ 15	0 ¹⁷ 35	13 ³³	21 ⁵¹	16 ⁰⁵	1 ³⁵	28 ³⁷	18 ³³	16 ⁰⁹	3 ¹⁰	19 ⁰¹	18 ⁰⁸	28 ⁰⁵	7 ⁰⁴	F 29
S 30	8 35 11	9 ⁵² 06	14 ²⁴	23 ⁰¹	23 ⁰¹	16 ⁵¹	1 ⁴⁹	28 ⁴⁴	18 ³⁷	16 ⁰⁸	3 ¹¹	19 ⁰³	18 ⁰⁵	28 ¹²	7 ⁰⁶	S 30
S 31	8 39 7	10 ⁵² 57	26 ¹⁷ 39	15 ³³ 18	24 ¹⁴ 10	17 ³³ 36	2 ³³ 3	28 ⁵⁵ 51	18 ⁴⁰	16 ⁵⁶ 6	3 ¹¹ 11	19 ³³ 4	18 ³³ 2	28 ¹⁷ 18	7 ⁰⁹ 9	S 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
F 1	23s 5	22s46	4s24	20s21	0n43	16s58	1s46	23s56	0s32	21s35	0s25	14s26	1s30	16s25	0s41	21n46	0s39	14s17	16s51	22s 7	22s 3	2s17	4n20	1n59			
S 2	23 0	24 53	3 38	20 6	1 2	16 34	1 45	23 58	0 33	21 33	0 25	14 24	1 30	16 24	0 41	21 46	0 39	14 17	16 51	22 7	22 4	2 20	4 20	1 59			
S 3	22 55	25 41	2 40	19 52	1 21	16 9	1 43	24 0	0 34	21 30	0 25	14 22	1 30	16 23	0 41	21 47	0 39	14 16	16 50	22 7	22 4	2 23	4 20	1 58			
M 4	22 49	24 59	1 31	19 40	1 40	15 44	1 42	24 2	0 34	21 28	0 25	14 20	1 30	16 22	0 41	21 47	0 39	14 16	16 50	22 7	22 5	2 26	4 21	1 58			
T 5	22 43	22 45	0 16	19 30	1 59	15 19	1 40	24 3	0 35	21 25	0 25	14 18	1 30	16 21	0 41	21 47	0 39	14 15	16 49	22 7	22 5	2 29	4 21	1 58			
W 6	22 36	19 4	1n 3	19 23	2 17	14 53	1 38	24 5	0 35	21 23	0 25	14 15	1 30	16 20	0 41	21 47	0 39	14 15	16 49	22 7	22 6	2 32	4 21	1 58			
T 7	22 28	14 14	2 18	19 17	2 33	14 27	1 36	24 6	0 36	21 20	0 25	14 13	1 30	16 19	0 41	21 48	0 39	14 14	16 49	22 7	22 6	2 35	4 21	1 58			
F 8	22 21	8 34	3 25	19 14	2 48	14 0	1 34	24 6	0 37	21 18	0 25	14 11	1 30	16 18	0 41	21 48	0 39	14 14	16 48	22 7	22 7	2 38	4 22	1 57			
S 9	22 13	2 27	4 19	19 12	3 1	13 34	1 32	24 7	0 37	21 15	0 25	14 9	1 30	16 17	0 41	21 48	0 39	14 13	16 48	22 7	22 7	2 41	4 22	1 57			
S 10	22 4	3n46	4 56	19 12	3 12	13 6	1 30	24 7	0 38	21 12	0 25	14 7	1 30	16 16	0 41	21 48	0 39	14 13	16 48	22 7	22 7	2 44	4 22	1 57			
M11	21 55	9 43	5 15	19 13	3 20	12 39	1 28	24 7	0 38	21 10	0 26	14 5	1 30	16 15	0 41	21 48	0 39	14 12	16 47	22 7	22 8	2 47	4 23	1 57			
T 12	21 46	15 7	5 15	19 16	3 25	12 11	1 26	24 6	0 39	21 7	0 26	14 2	1 30	16 14	0 41	21 49	0 39	14 12	16 47	22 7	22 8	2 50	4 23	1 57			
W13	21 36	19 39	4 56	19 20	3 28	11 43	1 23	24 6	0 40	21 4	0 26	14 0	1 29	16 13	0 41	21 49	0 39	14 11	16 47	22 7	22 9	2 53	4 24	1 57			
T 14	21 25	23 3	4 20	19 25	3 29	11 14	1 21	24 5	0 40	21 1	0 26	13 58	1 29	16 12	0 41	21 49	0 39	14 11	16 46	22 7	22 9	2 56	4 24	1 56			
F 15	21 15	25 6	3 31	19 32	3 27	10 46	1 18	24 4	0 41	20 59	0 26	13 56	1 29	16 11	0 41	21 49	0 39	14 10	16 46	22 7	22 10	2 59	4 25	1 56			
S 16	21 4	25 41	2 31	19 39	3 24	10 17	1 15	24 2	0 41	20 56	0 26	13 53	1 29	16 10	0 41	21 50	0 39	14 9	16 46	22 7	22 10	3 2	4 25	1 56			
S 17	20 52	24 49	1 23	19 47	3 19	9 48	1 12	24 1	0 42	20 53	0 26	13 51	1 29	16 9	0 41	21 50	0 39	14 9	16 45	22 7	22 11	3 5	4 26	1 56			
M18	20 40	22 39	0 13	19 55	3 12	9 18	1 10	23 59	0 42	20 50	0 26	13 49	1 29	16 8	0 41	21 50	0 39	14 8	16 45	22 7	22 11	3 8	4 26	1 56			
T 19	20 28	19 23	0s57	20 4	3 5	8 49	1 7	23 56	0 43	20 47	0 26	13 47	1 29	16 7	0 41	21 50	0 39	14 8	16 45	22 7	22 11	3 11	4 27	1 56			
W20	20 15	15 18	2 3	20 13	2 56	8 19	1 3	23 54	0 44	20 44	0 26	13 44	1 29	16 6	0 41	21 50	0 39	14 7	16 44	22 7	22 12	3 14	4 27	1 55			
T 21	20 2	10 38	3 2	20 22	2 47	7 49	1 0	23 51	0 44	20 42	0 26	13 42	1 29	16 5	0 41	21 51	0 39	14 7	16 44	22 7	22 12	3 17	4 28	1 55			
F 22	19 49	5 39	3 52	20 31	2 37	7 19	0 57	23 48	0 45	20 39	0 26	13 40	1 29	16 4	0 41	21 51	0 39	14 6	16 44	22 8	22 13	3 19	4 28	1 55			
S 23	19 35	0 30	4 31	20 40	2 27	6 48	0 54	23 45	0 45	20 36	0 27	13 37	1 29	16 3	0 41	21 51	0 39	14 5	16 43	22 8	22 13	3 22	4 29	1 55			
S 24	19 21	4s36	4 59	20 49	2 16	6 18	0 50	23 41	0 46	20 33	0 27	13 35	1 29	16 2	0 41	21 51	0 39	14 5	16 43	22 8	22 14	3 25	4 30	1 55			
M25	19 7	9 32	5 13	20 58	2 5	5 47	0 47	23 38	0 46	20 30	0 27	13 32	1 29	16 1	0 41	21 51	0 39	14 4	16 43	22 8	22 14	3 28	4 30	1 55			
T 26	18 52	14 9	5 15	21 6	1 54	5 16	0 43	23 34	0 47	20 27	0 27	13 30	1 29	16 0	0 41	21 52	0 39	14 4	16 42	22 9	22 14	3 31	4 31	1 54			
W27	18 37	18 15	5 2	21 14	1 44	4 46	0 39	23 29	0 48	20 24	0 27	13 28	1 29	15 59	0 41	21 52	0 39	14 3	16 42	22 9	22 15	3 34	4 32	1 54			
T 28	18 21	21 40	4 36	21 21	1 33	4 15	0 36	23 25	0 48	20 21	0 27	13 25	1 29	15 58	0 41	21 52	0 39	14 2	16 42	22 9	22 15	3 37	4 32	1 54			
F 29	18 5	24 10	3 56	21 27	1 22	3 44	0 32	23 20	0 49	20 18	0 27	13 23	1 29	15 57	0 41	21 52	0 39	14 2	16 42	22 8	22 16	3 40	4 33	1 54			
S 30	17 49	25 30	3 4	21 32	1 11	3 12	0 28	23 15	0 49	20 15	0 27	13 20	1 29	15 56	0 41	21 52	0 39	14 1	16 41	22 8	22 16	3 43	4 34	1 54			
S 31	17s33	25s28	2s 1	21s37	1n 1	2s41	0s24	23s 9	0s50	20s11	0s27	13s18	1s29	15s54	0s41	21n53	0s39	14s 0	16s41	22s 8	22s17	3s46	4n35	1n54			

ASTRODIENST EPHEMERIS for the year 1582

geocentric

FEBRUARY 1582 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	8 43 4	11 ⁵⁵ 3'46	10 ³ 18	16 ³ 15	25 ¹ 19	18 ³ 22	2 ² 18	28 ² 58	18 ² 44	16°R 5	3 ¹ 12	19 ³ 5	17 ³ 58	28 ¹ 25	7 ¹ 11	M 1
T 2	8 47 0	12°54'35	24°23	17°15	26°28	19° 8	2°32	29° 5	18°47	16° 3	3°13	19°R 6	17°55	28°32	7°13	T 2
W 3	8 50 57	13°55'22	8 ² 50	18°18	27°37	19°54	2°46	29°12	18°51	16° 2	3°14	19° 4	17°52	28°38	7°16	W 3
T 4	8 54 54	14°56'08	23°35	19°23	28°46	20°40	3° 0	29°20	18°54	16° 0	3°16	19° 2	17°49	28°45	7°18	T 4
F 5	8 58 50	15°56'52	8 ¹ 30	20°30	29°54	21°26	3°14	29°27	18°58	15°59	3°17	18°59	17°46	28°52	7°21	F 5
S 6	9 2 47	16°57'35	23°25	21°39	1 ¹ Y 3	22°12	3°28	29°34	19° 1	15°58	3°18	18°54	17°43	28°59	7°24	S 6
S 7	9 6 43	17°58'16	8 ¹ Y14	22°51	2°11	22°58	3°42	29°41	19° 5	15°56	3°19	18°50	17°39	29° 5	7°26	S 7
M 8	9 10 40	18°58'56	22°49	24° 4	3°19	23°45	3°56	29°48	19° 8	15°55	3°20	18°47	17°36	29°12	7°29	M 8
T 9	9 14 36	19°59'34	7 ¹ 8 5	25°19	4°27	24°31	4°10	29°56	19°11	15°53	3°21	18°45	17°33	29°19	7°32	T 9
W10	9 18 33	21° 0'10	21° 1	26°35	5°34	25°17	4°24	0 ¹ Y 3	19°15	15°52	3°22	18°D44	17°30	29°25	7°34	W10
T 11	9 22 29	22° 0'44	4 ¹ Y35	27°53	6°42	26° 3	4°38	0°10	19°18	15°51	3°23	18°45	17°27	29°32	7°37	T 11
F 12	9 26 26	23° 1'16	17°51	29°12	7°49	26°49	4°52	0°17	19°22	15°50	3°24	18°46	17°24	29°39	7°40	F 12
S 13	9 30 22	24° 1'47	0 ¹ Y49	0 ² Y33	8°56	27°35	5° 6	0°25	19°25	15°48	3°25	18°48	17°20	29°46	7°43	S 13
S 14	9 34 19	25° 2'16	13°32	1°55	10° 3	28°22	5°20	0°32	19°29	15°47	3°27	18°R49	17°17	29°52	7°46	S 14
M15	9 38 16	26° 2'43	26° 3	3°18	11° 9	29° 8	5°33	0°39	19°32	15°46	3°28	18°49	17°14	29°59	7°49	M15
T 16	9 42 12	27° 3'08	8 ¹ Y24	4°43	12°15	29°54	5°47	0°46	19°36	15°45	3°29	18°47	17°11	0 ¹ Y 6	7°52	T 16
W17	9 46 9	28° 3'31	20°36	6° 8	13°21	0 ² Y41	6° 1	0°54	19°39	15°43	3°30	18°43	17° 8	0°12	7°55	W17
T 18	9 50 5	29° 3'53	2 ¹ Y41	7°35	14°27	1°27	6°15	1° 1	19°43	15°42	3°32	18°37	17° 4	0°19	7°58	T 18
F 19	9 54 2	0 ¹ Y 4'12	14°40	9° 3	15°32	2°13	6°28	1° 8	19°46	15°41	3°33	18°30	17° 1	0°26	8° 1	F 19
S 20	9 57 58	1° 4'30	26°35	10°32	16°37	3° 0	6°42	1°16	19°50	15°40	3°34	18°22	16°58	0°33	8° 4	S 20
S 21	10 1 55	2° 4'47	8 ¹ Y27	12° 2	17°42	3°46	6°56	1°23	19°53	15°39	3°35	18°13	16°55	0°39	8° 7	S 21
M22	10 5 51	3° 5'02	20°19	13°34	18°47	4°32	7° 9	1°30	19°56	15°38	3°37	18° 5	16°52	0°46	8°10	M22
T 23	10 9 48	4° 5'15	2 ¹ Y14	15° 6	19°51	5°19	7°23	1°37	20° 0	15°37	3°38	17°59	16°49	0°53	8°13	T 23
W24	10 13 45	5° 5'27	14°14	16°39	20°55	6° 5	7°36	1°45	20° 3	15°36	3°39	17°54	16°45	1° 0	8°17	W24
T 25	10 17 41	6° 5'37	26°24	18°14	21°59	6°52	7°49	1°52	20° 7	15°35	3°40	17°52	16°42	1° 6	8°20	T 25
F 26	10 21 38	7° 5'46	8 ¹ Y48	19°49	23° 2	7°38	8° 3	1°59	20°10	15°34	3°42	17°D51	16°39	1°13	8°23	F 26
S 27	10 25 34	8° 5'53	21°32	21°26	24° 5	8°25	8°16	2° 7	20°13	15°33	3°43	17°52	16°36	1°20	8°26	S 27
S 28	10 29 31	9 ¹ Y 5'59	4 ¹ Y39	23 ² Y 4	25 ¹ Y 8	9 ² Y11	8 ² Y29	2 ¹ Y14	20 ² Y17	15 ¹ Y32	3 ¹ Y44	17 ³ Y53	16 ³ Y33	1 ¹ Y26	8 ¹ Y30	S 28

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	
M 1	17s16	23s54	0s48	21s40	0n50	2s10	0s20	23s 4	0s50	20s 8	0s27	13s15	1s29	15s53	0s41	21n53
T 2	16 59	20 49	0n29	21 43	0 40	1 39	0 16	22 58	0 51	20 5	0 28	13 13	1 29	15 52	0 41	21 53
W 3	16 41	16 23	1 46	21 45	0 30	1 7	0 11	22 52	0 51	20 2	0 28	13 10	1 29	15 51	0 41	21 53
T 4	16 24	10 53	2 58	21 46	0 20	0 36	0 7	22 45	0 52	19 59	0 28	13 8	1 29	15 50	0 41	21 53
F 5	16 6	4 43	3 59	21 45	0 11	0 5	0 3	22 39	0 52	19 56	0 28	13 5	1 29	15 49	0 41	21 54
S 6	15 47	1n42	4 43	21 44	0 1	0n27	0n 2	22 32	0 53	19 53	0 28	13 3	1 30	15 48	0 41	21 54
S 7	15 29	7 59	5 8	21 41	0s 8	0 58	0 6	22 25	0 54	19 49	0 28	13 0	1 30	15 47	0 41	21 54
M 8	15 10	13 43	5 12	21 37	0 17	1 29	0 11	22 17	0 54	19 46	0 28	12 58	1 30	15 46	0 41	21 54
T 9	14 51	18 35	4 57	21 32	0 25	2 0	0 15	22 10	0 55	19 43	0 28	12 55	1 30	15 45	0 41	21 54
W10	14 32	22 18	4 25	21 26	0 33	2 32	0 20	22 2	0 55	19 40	0 28	12 53	1 30	15 44	0 41	21 55
T 11	14 12	24 41	3 38	21 18	0 41	3 3	0 25	21 54	0 56	19 37	0 29	12 50	1 30	15 43	0 41	21 55
F 12	13 52	25 37	2 41	21 10	0 49	3 34	0 30	21 45	0 56	19 33	0 29	12 48	1 30	15 41	0 41	21 55
S 13	13 33	25 6	1 37	21 0	0 56	4 5	0 35	21 37	0 57	19 30	0 29	12 45	1 30	15 40	0 41	21 55
S 14	13 12	23 17	0 29	20 48	1 3	4 35	0 39	21 28	0 57	19 27	0 29	12 43	1 30	15 39	0 41	21 55
M15	12 52	20 21	0s39	20 36	1 10	5 6	0 44	21 19	0 58	19 24	0 29	12 40	1 30	15 38	0 41	21 55
T 16	12 31	16 31	1 44	20 22	1 16	5 37	0 49	21 10	0 58	19 20	0 29	12 37	1 30	15 37	0 41	21 56
W17	12 11	12 4	2 44	20 7	1 22	6 7	0 55	21 0	0 59	19 17	0 29	12 35	1 30	15 36	0 41	21 56
T 18	11 50	7 12	3 35	19 50	1 28	6 37	1 0	20 51	0 59	19 14	0 29	12 32	1 30	15 35	0 41	21 56
F 19	11 28	2 6	4 17	19 32	1 34	7 8	1 5	20 41	1 0	19 10	0 29	12 30	1 30	15 34	0 41	21 56
S 20	11 7	3s 1	4 46	19 13	1 39	7 38	1 10	20 30	1 0	19 7	0 30	12 27	1 30	15 33	0 41	21 56
S 21	10 46	8 0	5 4	18 53	1 43	8 7	1 15	20 20	1 0	19 4	0 30	12 25	1 30	15 32	0 41	21 56
M22	10 24	12 42	5 8	18 31	1 48	8 37	1 21	20 9	1 1	19 0	0 30	12 22	1 30	15 31	0 41	21 57
T 23	10 2	16 56	4 59	18 7	1 52	9 6	1 26	19 59	1 1	18 57	0 30	12 20	1 30	15 30	0 41	21 57
W24	9 40	20 32	4 36	17 43	1 56	9 36	1 31	19 48	1 2	18 54	0 30	12 17	1 30	15 29	0 41	21 57
T 25	9 18	23 18	4 1	17 17	1 59	10 5	1 37	19 36	1 2	18 51	0 30	12 14	1 30	15 27	0 41	21 57
F 26	8 56	25 1	3 15	16 50	2 2	10 33	1 42	19 25	1 3	18 47	0 30	12 12	1 30	15 26	0 41	21 57
S 27	8 33	25 30	2 17	16 21	2 4	11 2	1 48	19 13	1 3	18 44	0 31	12 9	1 31	15 25	0 41	21 57
S 28	8s11	24s35	1s11	15s51	2s 6	11n30	1n53	19s 1	1s 4	18s41	0s31	12s 7	1s31	15s24	0s41	21n57

Julian Day Number = 2298904.5, Delta T = 116.40 sec
 Ecliptic obliquity = 23°29'40, Nutation = 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 18°54'29, Lahiri = 18°01'29Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1582

geocentric

MARCH 1582 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	10 33 27	10° 3' 03"	18° 3' 13"	24° 43' 43"	26° 10' 10"	9° 58' 58"	8° 43' 43"	2° 21' 21"	20° 20' 20"	15° 31' 31"	3° 46' 46"	17° 54' 54"	16° 30' 30"	1° 33' 33"	8° 33' 33"	M 1
T 2	10 37 24	11° 6' 05"	2° 16' 16"	26° 23' 23"	27° 12' 12"	10° 44' 44"	8° 56' 56"	2° 28' 28"	20° 23' 23"	15° 31' 31"	3° 47' 47"	17° 53' 53"	16° 26' 26"	1° 40' 40"	8° 36' 36"	T 2
W 3	10 41 20	12° 6' 06"	16° 47' 47"	28° 4' 28"	28° 14' 14"	11° 31' 31"	9° 9' 9"	2° 36' 36"	20° 27' 27"	15° 30' 30"	3° 49' 49"	17° 50' 50"	16° 23' 23"	1° 47' 47"	8° 40' 40"	W 3
T 4	10 45 17	13° 6' 04"	1° 41' 41"	29° 46' 46"	29° 15' 15"	12° 18' 18"	9° 22' 22"	2° 43' 43"	20° 30' 30"	15° 29' 29"	3° 50' 50"	17° 44' 44"	16° 20' 20"	1° 53' 53"	8° 43' 43"	T 4
F 5	10 49 14	14° 6' 01"	16° 51' 51"	1° 29' 29"	0° 16' 16"	13° 4' 13"	9° 35' 35"	2° 50' 50"	20° 33' 33"	15° 28' 28"	3° 51' 51"	17° 37' 37"	16° 17' 17"	2° 0' 0"	8° 47' 47"	F 5
S 6	10 53 10	15° 5' 56"	2° 8' 8"	3° 13' 13"	1° 17' 17"	13° 51' 51"	9° 48' 48"	2° 57' 57"	20° 36' 36"	15° 28' 28"	3° 53' 53"	17° 28' 28"	16° 14' 14"	2° 7' 7"	8° 50' 50"	S 6
S 7	10 57 7	16° 5' 48"	17° 19' 19"	4° 59' 59"	2° 17' 17"	14° 37' 37"	10° 1' 1'	3° 4' 4"	20° 40' 40"	15° 27' 27"	3° 54' 54"	17° 19' 19"	16° 10' 10"	2° 13' 13"	8° 54' 54"	S 7
M 8	11 1 3	17° 5' 39"	2° 14' 14"	6° 46' 46"	3° 17' 17"	15° 24' 24"	10° 14' 14"	3° 12' 12"	20° 43' 43"	15° 26' 26"	3° 56' 56"	17° 11' 11"	16° 7' 7"	2° 20' 20"	8° 57' 57"	M 8
T 9	11 5 0	18° 5' 27"	16° 47' 47"	8° 34' 34"	4° 16' 16"	16° 11' 11"	10° 26' 26"	3° 19' 19"	20° 46' 46"	15° 26' 26"	3° 57' 57"	17° 5' 5"	16° 4' 4"	2° 27' 27"	9° 1' 1"	T 9
W10	11 8 56	19° 5' 14"	0° 11' 11"	10° 23' 23"	5° 14' 14"	16° 57' 57"	10° 39' 39"	3° 26' 26"	20° 49' 49"	15° 25' 25"	3° 58' 58"	17° 1' 1"	16° 1' 1"	2° 34' 34"	9° 4' 4"	W10
T 11	11 12 53	20° 4' 57"	14° 32' 32"	12° 13' 13"	6° 13' 13"	17° 44' 44"	10° 52' 52"	3° 33' 33"	20° 52' 52"	15° 24' 24"	4° 0' 0"	16° 59' 59"	15° 58' 58"	2° 40' 40"	9° 8' 8"	T 11
F 12	11 16 49	21° 4' 39"	27° 45' 45"	14° 5' 14"	7° 10' 10"	18° 31' 31"	11° 4' 4"	3° 40' 40"	20° 55' 55"	15° 24' 24"	4° 1' 1"	16° 59' 59"	15° 55' 55"	2° 47' 47"	9° 11' 11"	F 12
S 13	11 20 46	22° 4' 18"	10° 36' 36"	15° 58' 58"	8° 8' 8"	19° 17' 17"	11° 17' 17"	3° 47' 47"	20° 58' 58"	15° 24' 24"	4° 3' 3"	17° 0' 0"	15° 51' 51"	2° 54' 54"	9° 15' 15"	S 13
S 14	11 24 43	23° 3' 55"	23° 9' 9"	17° 51' 51"	9° 4' 4"	20° 4' 4"	11° 29' 29"	3° 54' 54"	21° 2' 2"	15° 23' 23"	4° 4' 4"	17° 0' 0"	15° 48' 48"	3° 0' 0"	9° 18' 18"	S 14
M15	11 28 39	24° 3' 30"	5° 28' 28"	19° 47' 47"	10° 1' 1"	20° 51' 51"	11° 41' 41"	4° 1' 1"	21° 5' 5"	15° 23' 23"	4° 6' 6"	16° 58' 58"	15° 45' 45"	3° 7' 7"	9° 22' 22"	M15
T 16	11 32 36	25° 3' 02"	17° 36' 36"	21° 43' 43"	10° 56' 56"	21° 37' 37"	11° 54' 54"	4° 8' 8"	21° 8' 8"	15° 22' 22"	4° 7' 7"	16° 54' 54"	15° 42' 42"	3° 14' 14"	9° 26' 26"	T 16
W17	11 36 32	26° 2' 32"	29° 38' 38"	23° 40' 40"	11° 51' 51"	22° 24' 24"	12° 6' 6"	4° 15' 15"	21° 11' 11"	15° 22' 22"	4° 8' 8"	16° 47' 47"	15° 39' 39"	3° 21' 21"	9° 29' 29"	W17
T 18	11 40 29	27° 2' 00"	11° 34' 34"	25° 39' 39"	12° 46' 46"	23° 10' 10"	12° 18' 18"	4° 22' 42"	21° 14' 14"	15° 22' 22"	4° 10' 10"	16° 38' 38"	15° 35' 35"	3° 27' 27"	9° 33' 33"	T 18
F 19	11 44 25	28° 1' 26"	23° 28' 28"	27° 38' 38"	13° 39' 39"	23° 57' 57"	12° 30' 30"	4° 29' 29"	21° 17' 17"	15° 21' 21"	4° 11' 11"	16° 26' 26"	15° 32' 32"	3° 34' 34"	9° 36' 36"	F 19
S 20	11 48 22	29° 0' 49"	5° 21' 21"	29° 39' 39"	14° 32' 32"	24° 44' 44"	12° 42' 42"	4° 36' 36"	21° 20' 20"	15° 21' 21"	4° 13' 13"	16° 12' 12"	15° 29' 29"	3° 41' 41"	9° 40' 40"	S 20
S 21	11 52 18	0° 11' 11"	17° 13' 13"	1° 40' 40"	15° 25' 25"	25° 30' 30"	12° 54' 54"	4° 43' 43"	21° 22' 22"	15° 21' 21"	4° 14' 14"	15° 58' 58"	15° 26' 26"	3° 47' 47"	9° 44' 44"	S 21
M22	11 56 15	0° 59' 31"	29° 8' 8"	3° 42' 42"	16° 16' 16"	26° 17' 17"	13° 6' 6"	4° 50' 50"	21° 25' 25"	15° 21' 21"	4° 16' 16"	15° 46' 46"	15° 23' 23"	3° 54' 54"	9° 47' 47"	M22
T 23	12 0 12	1° 58' 48"	11° 11' 11"	5° 44' 44"	17° 7' 7"	27° 4' 4"	13° 17' 17"	4° 56' 56"	21° 28' 28"	15° 21' 21"	4° 17' 17"	15° 34' 34"	15° 20' 20"	4° 1' 1"	9° 51' 51"	T 23
W24	12 4 8	2° 58' 04"	23° 9' 9"	7° 47' 47"	17° 58' 58"	27° 50' 50"	13° 29' 29"	5° 3' 3"	21° 31' 31"	15° 20' 20"	4° 19' 19"	15° 26' 26"	15° 16' 16"	4° 8' 8"	9° 55' 55"	W24
T 25	12 8 5	3° 57' 18"	5° 21' 21"	9° 50' 50"	18° 47' 47"	28° 37' 37"	13° 40' 40"	5° 10' 10"	21° 34' 34"	15° 20' 20"	4° 20' 20"	15° 20' 20"	15° 13' 13"	4° 14' 14"	9° 58' 58"	T 25
F 26	12 12 1	4° 56' 30"	17° 45' 45"	11° 53' 53"	19° 36' 36"	29° 24' 24"	13° 52' 52"	5° 17' 17"	21° 37' 37"	15° 20' 20"	4° 22' 42"	15° 17' 17"	15° 10' 10"	4° 21' 21"	10° 2' 2"	F 26
S 27	12 15 58	5° 55' 41"	0° 35' 35"	13° 56' 56"	20° 24' 24"	0° 10' 10"	14° 3' 3"	5° 23' 23"	21° 39' 39"	15° 20' 20"	4° 23' 23"	15° 16' 16"	15° 7' 7"	4° 28' 28"	10° 6' 6"	S 27
S 28	12 19 54	6° 54' 49"	13° 26' 26"	15° 58' 58"	21° 11' 11"	0° 57' 57"	14° 15' 15"	5° 30' 30"	21° 42' 42"	15° 20' 20"	4° 25' 25"	15° 16' 16"	15° 4' 4"	4° 35' 35"	10° 10' 10"	S 28
M29	12 23 51	7° 53' 56"	26° 51' 51"	17° 59' 59"	21° 57' 57"	1° 44' 44"	14° 26' 26"	5° 36' 36"	21° 45' 45"	15° 20' 20"	4° 26' 26"	15° 16' 16"	15° 1' 1"	4° 41' 41"	10° 13' 13"	M29
T 30	12 27 47	8° 53' 01"	10° 45' 45"	19° 58' 58"	22° 42' 42"	2° 30' 30"	14° 37' 37"	5° 43' 43"	21° 47' 47"	15° 20' 20"	4° 27' 27"	15° 14' 14"	14° 57' 57"	4° 48' 48"	10° 17' 17"	T 30
W31	12 31 44	9° 52' 05"	25° 6' 6"	21° 56' 56"	23° 26' 26"	3° 17' 17"	14° 48' 48"	5° 49' 49"	21° 50' 50"	15° 20' 20"	4° 29' 29"	15° 13' 13"	14° 54' 54"	4° 55' 55"	10° 21' 21"	W31

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
M 1	7s48	22s13	0n 2	15s20	2s 8	11n58	1n59	18s49	1s 4	18s37	0s31	12s 4	1s31	15s23	0s41	21n57	0s38	13s41	16s35	22s18	22s28	5s11	5n 4	1n49	
T 2	7 25	18 28	1 16	14 47	2 9	12 26	2 4	18 37	1 4	18 34	0 31	12 2	1 31	15 22	0 41	21 58	0 38	13 41	16 35	22 18	22 29	5 14	5 6	1 49	
W 3	7 2	13 29	2 28	14 13	2 10	12 53	2 10	18 24	1 5	18 30	0 31	11 59	1 31	15 21	0 41	21 58	0 38	13 40	16 35	22 18	22 29	5 16	5 7	1 49	
T 4	6 39	7 36	3 32	13 37	2 11	13 20	2 15	18 12	1 5	18 27	0 31	11 57	1 31	15 20	0 41	21 58	0 38	13 39	16 34	22 19	22 30	5 19	5 8	1 49	
F 5	6 16	1 11	4 22	13 0	2 11	13 47	2 21	17 59	1 6	18 24	0 31	11 54	1 31	15 19	0 41	21 58	0 38	13 39	16 34	22 20	22 30	5 22	5 9	1 49	
S 6	5 53	5n20	4 54	12 22	2 10	14 14	2 26	17 46	1 6	18 20	0 31	11 52	1 31	15 18	0 41	21 58	0 38	13 38	16 34	22 21	22 30	5 25	5 11	1 49	
S 7	5 30	11 30	5 4	11 43	2 10	14 40	2 32	17 33	1 7	18 17	0 32	11 49	1 31	15 17	0 41	21 58	0 38	13 37	16 34	22 22	22 31	5 28	5 12	1 49	
M 8	5 6	16 52	4 54	11 2	2 8	15 6	2 37	17 19	1 7	18 14	0 32	11 46	1 31	15 16	0 41	21 58	0 38	13 37	16 34	22 23	22 31	5 31	5 13	1 49	
T 9	4 43	21 7	4 25	10 20	2 6	15 31	2 43	17 6	1 7	18 10	0 32	11 44	1 31	15 15	0 41	21 58	0 38	13 36	16 34	22 24	22 31	5 34	5 15	1 49	
W10	4 20	23 58	3 40	9 36	2 4	15 57	2 48	16 52	1 8	18 7	0 32	11 41	1 31	15 14	0 41	21 58	0 38	13 35	16 34	22 25	22 32	5 37	5 16	1 48	
T 11	3 56	25 19	2 44	8 52	2 1	16 21	2 54	16 38	1 8	18 4	0 32	11 39	1 31	15 13	0 41	21 59	0 38	13 35	16 34	22 26	22 32	5 39	5 17	1 48	
F 12	3 33	25 9	1 41	8 5	1 58	16 46	2 59	16 24	1 8	18 1	0 32	11 36	1 32	15 12	0 41	21 59	0 38	13 34	16 34	22 27	22 33	5 42	5 18	1 48	
S 13	3 9	23 38	0 34	7 18	1 54	17 10	3 5	16 10	1 9	17 57	0 32	11 34	1 32	15 11	0 41	21 59	0 38	13 33	16 34	22 28	22 33	5 45	5 20	1 48	
S 14	2 46	20 58	0s33	6 30	1 50	17 34	3 10	15 55	1 9	17 54	0 33	11 31	1 32	15 10	0 41	21 59	0 38	13 33	16 33	22 29	22 33	5 48	5 21	1 48	
M15	2 22	17 23	1 37	5 40	1 45	17 57	3 16	15 41	1 10	17 51	0 33	11 29	1 32	15 9	0 41	21 59	0 38	13 32	16 33	22 30	22 34	5 51	5 22	1 48	
T 16	1 58	13 8	2 35	4 49	1 39	18 20	3 21	15 26	1 10	17 47	0 33	11 27	1 32	15 8	0 41	21 59	0 38	13 32	16 33	22 31	22 34	5 54	5 24	1 48	
W17	1 35	8 25	3 26	3 57	1 34	18 42	3 27	15 11	1 10	17 44	0 33	11 24	1 32	15 7	0 41	21 59	0 38	13 31	16 33	22 32	22 34	5 57	5 25	1 48	
T 18	1 11	3 26	4 7	3 4	1 27	19 4	3 32	14 56	1 11	17 41	0 33	11 22	1 32	15 6	0 41	21 59	0 38	13 30	16 33	22 33	22 35	5 59	5 26	1 48	
F 19	0 47	1s39	4 37	2 10	1 20	19 26	3 37	14 41	1 11	17 38	0 33	11 19	1 32	15 5	0 41	21 59	0 38	13 30	16 33	22 34	22 36	6 2	5 28	1 48	
S 20	0 24	6 38	4 55	1 15	1 12	19 47	3 43	14 26	1 11	17 34	0 34	11 17	1 32	15 5	0 41	21 59	0 38	13 29	16 33	22 35	22 36	6 5	5 29	1 48	
S 21	0n 0	11 24	5 0	0 19	1 4	20 7	3 48	14 10	1 11	17 31	0 34	11 14	1 33	15 4	0 41	21 59	0 37	13 29	16 33	22 36	22 36	6 8	5 31	1 47	
M22	0 24	15 44	4 52	0n37	0 56	20 28	3 53	13 55	1 12	17 28	0 34	11 12	1 33	15 3	0 41	21 59	0 37	13 28	16 33	22 37	22 36	6 11	5 32	1 47	
T 23	0 47	19 29	4 32	1 34	0 47	20 47	3 58	13 39	1 12	17 25	0 34	11 10	1 33	15 2	0 41	21 59	0 37	13 27	16 33	22 38	22 37	6 14	5 33	1 47	
W24	1 11	22 27	3 59	2 32	0 37	21 7	4 3	13 23	1 12	17 22	0 34	11 7	1 33	15 1	0 41	21 59	0 37	13 27	16 33	22 39	22 37	6 16	5 35	1 47	
T 25	1 35	24 26	3 14	3 29	0 27	21 26	4 8	13 7	1 13	17 18	0 34	11 5	1 33	15 0	0 41	21 59	0 37	13 26	16 33	22 40	22 37	6 19	5 36	1 47	
F 26	1 58	25 15	2 20	4 27	0 17	21 44	4 13	12 51	1 13	17 15	0 35	11 3	1 33	14 59	0 41	22 0	0 37	13 26	16 33	22 41	22 38	6 22	5 37	1 47	
S 27	2 22	24 47	1 18	5 25	0 6	22 2	4 18	12 35	1 13	17 12	0 35	11 0	1 33	14 58	0 41	22 0	0 37	13 25	16 33	22 42	22 38	6 25	5 39	1 47	
S 28	2 45	22 59	0 10	6 22	0n 5	22 19	4 23	12 18	1 13	17 9	0 35	10 58	1 33	14 57	0 41	22 0	0 37	13 24	16 33	22 43	22 38	6 28	5 40	1 47	
M29	3 8	19 50	1n 1	7 19	0 16	22 36	4 28	12 2	1 14	17 6	0 35	10 56	1 34	14 57	0 41	22 0	0 37	13 24	16 33	22 44	22 39	6 31	5 42	1 47	
T 30	3 32	15 29	2 10	8 15	0 28	22 52	4 32	11 45	1 14	17 3	0 35	10 53	1 34	14 56	0 41	22 0	0 37	13 23	16 33	22 45	22 39	6 33	5 43	1 47	
W31	3n55	10s 8	3n14	9n11	0n39	23n 8	4n37	11s29	1s14	17s 0	0s35	10s51	1s34	14s55	0s41	22n 0	0s37	13s23	16s33	22s38	22s40	6s36	5n44	1n47	

ASTRODIENST EPHEMERIS for the year 1582

geocentric

APRIL 1582 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 35 41	10°51'06	9°54	23°52	24°8 9	4°4 4	14°59	5°56	21°52	15°21	4°30	15°R 3	14°51	5°1	10°24	T 1
F 2	12 39 37	11°50'05	25° 2	25°46	24°51	4°50	15°10	6° 2	21°55	15°21	4°32	14°54	14°48	5° 8	10°28	F 2
S 3	12 43 34	12°49'03	10°21	27°37	25°32	5°37	15°20	6° 9	21°57	15°21	4°33	14°43	14°45	5°15	10°32	S 3
S 4	12 47 30	13°47'58	25°39	29°24	26°12	6°24	15°31	6°15	22° 0	15°21	4°35	14°32	14°41	5°22	10°35	S 4
M 5	12 51 27	14°46'52	10°46	18° 8	26°51	7°10	15°41	6°21	22° 2	15°22	4°36	14°21	14°38	5°28	10°39	M 5
T 6	12 55 23	15°45'43	25°31	2°48	27°29	7°57	15°52	6°27	22° 5	15°22	4°38	14°13	14°35	5°35	10°43	T 6
W 7	12 59 20	16°44'32	9°49	4°25	28° 5	8°43	16° 2	6°34	22° 7	15°22	4°39	14° 8	14°32	5°42	10°47	W 7
T 8	13 3 16	17°43'19	23°37	5°57	28°40	9°30	16°12	6°40	22° 9	15°23	4°41	14° 5	14°29	5°48	10°50	T 8
F 9	13 7 13	18°42'04	6°56	7°24	29°13	10°16	16°22	6°46	22°12	15°23	4°42	14° 4	14°26	5°55	10°54	F 9
S 10	13 11 9	19°40'46	19°49	8°46	29°46	11° 3	16°32	6°52	22°14	15°24	4°43	14° 4	14°22	6° 2	10°58	S 10
S 11	13 15 6	20°39'26	2°21	10° 4	0°116	11°49	16°42	6°58	22°16	15°24	4°45	14° 3	14°19	6° 9	11° 1	S 11
M12	13 19 3	21°38'04	14°37	11°16	0°45	12°36	16°52	7° 4	22°18	15°25	4°46	14° 2	14°16	6°15	11° 5	M12
T 13	13 22 59	22°36'39	26°40	12°24	1°13	13°22	17° 1	7°10	22°20	15°25	4°48	13°57	14°13	6°22	11° 9	T 13
W14	13 26 56	23°35'12	8°37	13°26	1°39	14° 9	17°11	7°15	22°22	15°26	4°49	13°51	14°10	6°29	11°12	W14
T 15	13 30 52	24°33'43	20°29	14°22	2° 3	14°55	17°20	7°21	22°25	15°26	4°50	13°41	14° 7	6°36	11°16	T 15
F 16	13 34 49	25°32'13	2°20	15°13	2°26	15°42	17°29	7°27	22°27	15°27	4°52	13°29	14° 3	6°42	11°20	F 16
S 17	13 38 45	26°30'40	14°13	15°58	2°46	16°28	17°39	7°32	22°28	15°28	4°53	13°16	14° 0	6°49	11°23	S 17
S 18	13 42 42	27°29'05	26° 9	16°38	3° 5	17°14	17°48	7°38	22°30	15°28	4°55	13° 2	13°57	6°56	11°27	S 18
M19	13 46 38	28°27'28	8°18	17°11	3°22	18° 1	17°56	7°44	22°32	15°29	4°56	12°49	13°54	7° 2	11°30	M19
T 20	13 50 35	29°25'49	20°14	17°39	3°36	18°47	18° 5	7°49	22°34	15°30	4°57	12°38	13°51	7° 9	11°34	T 20
W21	13 54 32	0°24'09	2°26	18° 2	3°49	19°33	18°14	7°54	22°36	15°31	4°59	12°30	13°47	7°16	11°37	W21
T 22	13 58 28	1°22'27	14°46	18°18	4° 0	20°20	18°22	8° 0	22°38	15°32	5° 0	12°24	13°44	7°23	11°41	T 22
F 23	14 2 25	2°20'43	27°17	18°29	4° 8	21° 6	18°31	8° 5	22°39	15°32	5° 1	12°21	13°41	7°29	11°45	F 23
S 24	14 6 21	3°18'58	10°3	18°R35	4°14	21°52	18°39	8°10	22°41	15°33	5° 3	12°D20	13°38	7°36	11°48	S 24
S 25	14 10 18	4°17'12	23° 5	18°35	4°18	22°38	18°47	8°15	22°43	15°34	5° 4	12°20	13°35	7°43	11°52	S 25
M26	14 14 14	5°15'24	6°27	18°29	4°R20	23°24	18°55	8°20	22°44	15°35	5° 5	12°R20	13°32	7°49	11°55	M26
T 27	14 18 11	6°13'34	20°12	18°19	4°19	24°11	19° 3	8°25	22°46	15°36	5° 7	12°19	13°28	7°56	11°59	T 27
W28	14 22 7	7°11'43	4°22	18° 4	4°16	24°57	19°10	8°30	22°47	15°37	5° 8	12°17	13°25	8° 3	12° 2	W28
T 29	14 26 4	8° 9'50	18°55	17°44	4°10	25°43	19°18	8°35	22°49	15°38	5° 9	12°12	13°22	8°10	12° 5	T 29
F 30	14 30 1	9°8 7'56	3°47	17°21	4°II 2	26°429	19°25	8°40	22°50	15°39	5°10	12°3	13°19	8°16	12°9	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	decl	lat
T 1	4n18	4s 5	4n 6	10n 4	0n51	23n23	4n41	11s12	1s14	16s57	0s36	10s49	1s34	14s54	0s42	22n 0	0s37	13s22	16s33	22s39	22s40	6s39	5n46	1n47			
F 2	4 41	2n20	4 42	10 57	1 3	23 38	4 45	10 55	1 15	16 54	0 36	10 46	1 34	14 53	0 42	22 0	0 37	13 22	16 33	22 40	22 40	6 42	5 47	1 47			
S 3	5 4	8 41	4 59	11 48	1 14	23 52	4 49	10 38	1 15	16 51	0 36	10 44	1 34	14 53	0 42	22 0	0 37	13 21	16 33	22 41	22 41	6 45	5 49	1 46			
S 4	5 27	14 30	4 55	12 37	1 25	24 6	4 53	10 21	1 15	16 48	0 36	10 42	1 34	14 52	0 42	22 0	0 37	13 21	16 33	22 42	22 41	6 48	5 50	1 46			
M 5	5 50	19 21	4 29	13 23	1 36	24 19	4 57	10 4	1 15	16 45	0 36	10 40	1 35	14 51	0 42	22 0	0 37	13 20	16 33	22 43	22 41	6 50	5 51	1 46			
T 6	6 13	22 51	3 46	14 8	1 46	24 31	5 1	9 47	1 15	16 42	0 36	10 38	1 35	14 50	0 42	22 0	0 37	13 20	16 33	22 44	22 42	6 53	5 53	1 46			
W 7	6 36	24 47	2 50	14 50	1 56	24 43	5 5	9 29	1 16	16 39	0 37	10 36	1 35	14 50	0 42	22 0	0 37	13 19	16 34	22 45	22 42	6 56	5 54	1 46			
T 8	6 58	25 6	1 46	15 30	2 5	24 54	5 8	9 12	1 16	16 36	0 37	10 33	1 35	14 49	0 42	22 0	0 37	13 19	16 34	22 45	22 42	6 59	5 56	1 46			
F 9	7 21	23 56	0 38	16 7	2 14	25 5	5 11	8 54	1 16	16 33	0 37	10 31	1 35	14 48	0 42	22 0	0 37	13 18	16 34	22 45	22 43	7 2	5 57	1 46			
S 10	7 43	21 32	0s30	16 42	2 22	25 15	5 14	8 37	1 16	16 31	0 37	10 29	1 35	14 47	0 42	22 0	0 37	13 18	16 34	22 45	22 43	7 4	5 58	1 46			
S 11	8 5	18 8	1 35	17 14	2 29	25 25	5 17	8 19	1 16	16 28	0 37	10 27	1 35	14 47	0 42	22 0	0 37	13 17	16 34	22 45	22 43	7 7	6 0	1 46			
M12	8 27	14 2	2 34	17 43	2 36	25 34	5 20	8 2	1 16	16 25	0 38	10 25	1 36	14 46	0 42	22 0	0 37	13 17	16 34	22 45	22 44	7 10	6 1	1 46			
T 13	8 49	9 26	3 25	18 9	2 41	25 42	5 22	7 44	1 17	16 22	0 38	10 23	1 36	14 45	0 42	22 0	0 37	13 16	16 34	22 46	22 44	7 13	6 2	1 46			
W14	9 11	4 33	4 6	18 32	2 46	25 49	5 24	7 26	1 17	16 20	0 38	10 21	1 36	14 45	0 42	21 59	0 37	13 16	16 34	22 46	22 44	7 15	6 4	1 46			
T 15	9 32	0s27	4 36	18 53	2 49	25 56	5 26	7 8	1 17	16 17	0 38	10 19	1 36	14 44	0 42	21 59	0 37	13 15	16 34	22 47	22 45	7 18	6 5	1 46			
F 16	9 54	5 26	4 55	19 10	2 52	26 3	5 28	6 50	1 17	16 14	0 38	10 17	1 36	14 44	0 42	21 59	0 37	13 15	16 34	22 49	22 45	7 21	6 7	1 46			
S 17	10 15	10 13	5 0	19 25	2 53	26 8	5 29	6 32	1 17	16 12	0 39	10 15	1 36	14 43	0 42	21 59	0 37	13 15	16 35	22 50	22 45	7 24	6 8	1 46			
S 18	10 36	14 39	4 52	19 37	2 54	26 13	5 30	6 14	1 17	16 9	0 39	10 13	1 37	14 42	0 42	21 59	0 37	13 14	16 35	22 51	22 46	7 27	6 9	1 46			
M19	10 57	18 32	4 32	19 46	2 53	26 17	5 31	5 56	1 17	16 7	0 39	10 11	1 37	14 42	0 42	21 59	0 37	13 14	16 35	22 52	22 46	7 29	6 11	1 46			
T 20	11 18	21 41	3 59	19 52	2 51	26 20	5 31	5 38	1 17	16 4	0 39	10 9	1 37	14 41	0 42	21 59	0 37	13 13	16 35	22 54	22 46	7 32	6 12	1 46			
W21	11 38	23 52	3 15	19 55	2 47	26 23	5 31	5 20	1 17	16 2	0 39	10 7	1 37	14 41	0 42	21 59	0 37	13 13	16 35	22 54	22 47	7 35	6 13	1 45			
T 22	11 59	24 57	2 21	19 56	2 43	26 24	5 31	5 2	1 18	15 59	0 40	10 6	1 37	14 40	0 42	21 59	0 36	13 13	16 35	22 55	22 47	7 38	6 15	1 45			
F 23	12 19	24 47	1 19	19 53	2 37	26 25	5 30	4 44	1 18	15 57	0 40	10 4	1 38	14 40	0 42	21 59	0 36	13 12	16 35	22 55	22 47	7 40	6 16	1 45			
S 24	12 39	23 19	0 12	19 48	2 30	26 25	5 29	4 25	1 18	15 54	0 40	10 2	1 38	14 39	0 42	21 59	0 36	13 12	16 36	22 55	22 48	7 43	6 18	1 45			
S 25	12 59	20 35	0n57	19 40	2 22	26 25	5 27	4 7	1 18	15 52	0 40	10 0	1 38	14 39	0 42	21 59	0 36	13 12	16 36	22 55	22 48	7 46	6 19	1 45			
M26	13 18	16 41	2 5	19 29	2 12	26 23	5 25	3 49	1 18	15 50	0 41	9 59	1 38	14 38	0 42	21 59	0 36	13 11	16 36	22 55	22 48	7 49	6 20	1 45			
T 27	13 38	11 49	3 7	19 16	2 2	26 20	5 23	3 30	1 18	15 48	0 41	9 57	1 38	14 38	0 42	21 59	0 36	13 11	16 36	22 55	22 49	7 51	6 22	1 45			
W28	13 57	6 12	4 0	19 1	1 50	26 17	5 20	3 12	1 18	15 45	0 41	9 55	1 38	14 37	0 42	21 59	0 36	13 11	16 36	22 56	22 49	7 54	6 23	1 45			
T 29	14 16	0 7	4 39	18 43	1 37	26 12	5 16	2 54	1 18	15 43	0 41	9 54	1 39	14 37	0 42	21 58	0 36	13 10	16 37	22 56	22 49	7 57	6 24	1 45			
F 30	14n34	6n 6	5n 0	18n23	1n23	26n 7	5n12	2s35	1s18	15s41	0s41	9s52	1s39	14s36	0s42	21n58	0s36	13s10	16s37	22s57	22s50	8s 0	6n25	1n45			

ASTRODIENST EPHEMERIS for the year 1582

geocentric

MAY 1582 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 33 57	10♈ 6'00	18♏51	16♍R54	3♍R52	27♏15	19♎33	8♏45	22♎51	15♏40	5♏12	11♍R56	13♏16	8♎23	12♏12	S 1
S 2	14 37 54	11° 4'03	3♏59	16♏24	3♏39	28° 1	19°40	8°49	22°53	15°42	5°13	11♏46	13°12	8°30	12°16	S 2
M 3	14 41 50	12° 2'05	18°59	15°52	3°23	28°47	19°47	8°54	22°54	15°43	5°14	11°38	13° 9	8°37	12°19	M 3
T 4	14 45 47	13° 0'04	3♏43	15°17	3° 6	29°33	19°53	8°58	22°55	15°44	5°15	11°31	13° 6	8°43	12°22	T 4
W 5	14 49 43	13°58'03	18° 4	14°42	2°46	0♏19	20° 0	9° 3	22°56	15°45	5°16	11°27	13° 3	8°50	12°25	W 5
T 6	14 53 40	14°55'59	1♏57	14° 6	2°24	1° 4	20° 7	9° 7	22°58	15°46	5°18	11°24	13° 0	8°57	12°29	T 6
F 7	14 57 36	15°53'54	15°22	13°29	1°59	1°50	20°13	9°11	22°59	15°48	5°19	11°D24	12°57	9° 3	12°32	F 7
S 8	15 1 33	16°51'46	28°20	12°54	1°33	2°36	20°19	9°16	23° 0	15°49	5°20	11°25	12°53	9°10	12°35	S 8
S 9	15 5 30	17°49'37	10♎56	12°20	1° 4	3°22	20°25	9°20	23° 1	15°50	5°21	11°26	12°50	9°17	12°38	S 9
M10	15 9 26	18°47'26	23°14	11°47	0°34	4° 8	20°31	9°24	23° 2	15°52	5°22	11°R26	12°47	9°24	12°42	M10
T 11	15 13 23	19°45'14	5♏19	11°17	0° 2	4°53	20°37	9°28	23° 2	15°53	5°23	11°24	12°44	9°30	12°45	T 11
W12	15 17 19	20°42'59	17°15	10°50	29♏28	5°39	20°42	9°32	23° 3	15°55	5°24	11°21	12°41	9°37	12°48	W12
T 13	15 21 16	21°40'43	29° 7	10°26	28°54	6°24	20°48	9°35	23° 4	15°56	5°26	11°15	12°38	9°44	12°51	T 13
F 14	15 25 12	22°38'26	10♎59	10° 6	28°18	7°10	20°53	9°39	23° 5	15°57	5°27	11° 8	12°34	9°51	12°54	F 14
S 15	15 29 9	23°36'07	22°54	9°49	27°41	7°55	20°58	9°43	23° 5	15°59	5°28	11° 0	12°31	9°57	12°57	S 15
S 16	15 33 5	24°33'46	4♏54	9°37	27° 4	8°41	21° 3	9°46	23° 6	16° 0	5°29	10°51	12°28	10° 4	13° 0	S 16
M17	15 37 2	25°31'24	17° 1	9°28	26°26	9°26	21° 7	9°50	23° 7	16° 2	5°30	10°43	12°25	10°11	13° 3	M17
T 18	15 40 59	26°29'01	29°17	9°D25	25°48	10°12	21°12	9°53	23° 7	16° 4	5°31	10°36	12°22	10°17	13° 6	T 18
W19	15 44 55	27°26'37	11♏43	9°26	25°10	10°57	21°16	9°56	23° 8	16° 5	5°32	10°31	12°18	10°24	13° 9	W19
T 20	15 48 52	28°24'11	24°18	9°31	24°33	11°42	21°20	10° 0	23° 8	16° 7	5°33	10°27	12°15	10°31	13°12	T 20
F 21	15 52 48	29°21'45	7♏ 5	9°41	23°56	12°27	21°24	10° 3	23° 9	16° 8	5°34	10°D26	12°12	10°38	13°14	F 21
S 22	15 56 45	0♏19'17	20° 5	9°55	23°20	13°13	21°28	10° 6	23° 9	16°10	5°35	10°26	12° 9	10°44	13°17	S 22
S 23	16 0 41	1°16'49	3♏19	10°14	22°46	13°58	21°32	10° 9	23° 9	16°12	5°35	10°28	12° 6	10°51	13°20	S 23
M24	16 4 38	2°14'19	16°48	10°37	22°12	14°43	21°35	10°11	23° 9	16°13	5°36	10°29	12° 3	10°58	13°23	M24
T 25	16 8 34	3°11'49	0♏34	11° 4	21°40	15°28	21°39	10°14	23°10	16°15	5°37	10°R30	11°59	11° 4	13°25	T 25
W26	16 12 31	4° 9'18	14°37	11°36	21° 9	16°13	21°42	10°17	23°10	16°17	5°38	10°29	11°56	11°11	13°28	W26
T 27	16 16 28	5° 6'46	28°56	12°11	20°41	16°58	21°45	10°19	23°10	16°19	5°39	10°27	11°53	11°18	13°30	T 27
F 28	16 20 24	6° 4'14	13♏29	12°51	20°14	17°43	21°47	10°22	23°10	16°20	5°40	10°24	11°50	11°25	13°33	F 28
S 29	16 24 21	7° 1'40	28°10	13°35	19°49	18°27	21°50	10°24	23°R10	16°22	5°41	10°20	11°47	11°31	13°36	S 29
S 30	16 28 17	7°59'06	12♏54	14°22	19°27	19°12	21°52	10°27	23°10	16°24	5°41	10°15	11°44	11°38	13°38	S 30
M31	16 32 14	8♏56'32	27♏34	15♏13	19♏ 7	19♏57	21°55	10♏29	23°10	16°26	5♏42	10♏11	11♏40	11°45	13♏41	M31

Day	☉	☾		♂		♀	♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	14n53	12n 2	5n 1	18n 1	1n 8	26n 0	5n 8	2s17	1s18	15s39	0s42	9s50	1s39	14s36	0s43	21n58	0s36	13s10	16s37	22s57	22s50	8s 2	6n27	1n45			
S 2	15 11	17 17	4 41	17 37	0 52	25 53	5 3	1 59	1 18	15 37	0 42	9 49	1 39	14 35	0 43	21 58	0 36	13 9	16 37	22 58	22 50	8 5	6 28	1 45			
M 3	15 29	21 23	4 2	17 12	0 36	25 44	4 57	1 40	1 18	15 35	0 42	9 47	1 39	14 35	0 43	21 58	0 36	13 9	16 37	22 59	22 51	8 8	6 29	1 45			
T 4	15 47	24 0	3 7	16 46	0 19	25 34	4 51	1 22	1 18	15 33	0 42	9 46	1 40	14 35	0 43	21 58	0 36	13 9	16 38	23 0	22 51	8 11	6 31	1 45			
W 5	16 4	24 58	2 1	16 19	0 2	25 24	4 44	1 4	1 18	15 31	0 43	9 44	1 40	14 34	0 43	21 58	0 36	13 8	16 38	23 0	22 51	8 13	6 32	1 45			
T 6	16 21	24 19	0 50	15 51	0s16	25 12	4 36	0 45	1 18	15 29	0 43	9 43	1 40	14 34	0 43	21 58	0 36	13 8	16 38	23 0	22 51	8 16	6 33	1 45			
F 7	16 38	22 15	0s21	15 24	0 33	24 59	4 28	0 27	1 17	15 28	0 43	9 41	1 40	14 34	0 43	21 58	0 36	13 8	16 38	23 0	22 52	8 19	6 34	1 45			
S 8	16 55	19 5	1 30	14 57	0 50	24 45	4 19	0 9	1 17	15 26	0 43	9 40	1 40	14 33	0 43	21 57	0 36	13 8	16 38	23 0	22 52	8 21	6 36	1 45			
S 9	17 11	15 6	2 32	14 30	1 7	24 30	4 10	0n 9	1 17	15 24	0 43	9 39	1 41	14 33	0 43	21 57	0 36	13 8	16 39	23 0	22 52	8 24	6 37	1 45			
M10	17 27	10 34	3 25	14 5	1 24	24 14	4 0	0 28	1 17	15 22	0 44	9 37	1 41	14 33	0 43	21 57	0 36	13 7	16 39	23 0	22 53	8 27	6 38	1 45			
T 11	17 43	5 44	4 8	13 40	1 40	23 56	3 50	0 46	1 17	15 21	0 44	9 36	1 41	14 33	0 43	21 57	0 36	13 7	16 39	23 0	22 53	8 30	6 39	1 45			
W12	17 58	0 45	4 40	13 17	1 55	23 38	3 39	1 4	1 17	15 19	0 44	9 35	1 41	14 32	0 43	21 57	0 36	13 7	16 39	23 0	22 53	8 32	6 41	1 45			
T 13	18 14	4s14	5 0	12 56	2 10	23 19	3 27	1 22	1 17	15 18	0 44	9 33	1 42	14 32	0 43	21 57	0 36	13 7	16 40	23 1	22 54	8 35	6 42	1 45			
F 14	18 28	9 3	5 7	12 37	2 23	23 0	3 15	1 41	1 17	15 16	0 45	9 32	1 42	14 32	0 43	21 57	0 36	13 7	16 40	23 2	22 54	8 38	6 43	1 45			
S 15	18 43	13 34	5 0	12 20	2 36	22 39	3 2	1 59	1 17	15 15	0 45	9 31	1 42	14 32	0 43	21 57	0 36	13 6	16 40	23 2	22 54	8 40	6 44	1 45			
S 16	18 57	17 35	4 41	12 5	2 47	22 18	2 50	2 17	1 16	15 14	0 45	9 30	1 42	14 32	0 43	21 56	0 36	13 6	16 41	23 3	22 54	8 43	6 45	1 45			
M17	19 11	20 55	4 8	11 52	2 58	21 56	2 36	2 35	1 16	15 12	0 45	9 29	1 42	14 31	0 43	21 56	0 36	13 6	16 41	23 4	22 55	8 46	6 46	1 45			
T 18	19 25	23 21	3 24	11 42	3 7	21 34	2 23	2 53	1 16	15 11	0 46	9 28	1 43	14 31	0 43	21 56	0 36	13 6	16 41	23 4	22 55	8 48	6 47	1 45			
W19	19 38	24 42	2 29	11 34	3 16	21 11	2 9	3 11	1 16	15 10	0 46	9 27	1 43	14 31	0 43	21 56	0 36	13 6	16 41	23 5	22 55	8 51	6 49	1 45			
T 20	19 51	24 48	1 26	11 29	3 23	20 48	1 55	3 29	1 16	15 9	0 46	9 26	1 43	14 31	0 43	21 56	0 36	13 6	16 42	23 5	22 56	8 54	6 50	1 45			
F 21	20 4	23 36	0 18	11 26	3 29	20 26	1 41	3 46	1 16	15 8	0 46	9 25	1 43	14 31	0 43	21 56	0 36	13 6	16 42	23 5	22 56	8 57	6 51	1 45			
S 22	20 16	21 8	0n52	11 26	3 34	20 3	1 26	4 4	1 15	15 7	0 47	9 24	1 44	14 31	0 43	21 55	0 36	13 5	16 42	23 5	22 56	8 59	6 52	1 45			
S 23	20 28	17 30	2 1	11 28	3 38	19 40	1 12	4 22	1 15	15 6	0 47	9 23	1 44	14 31	0 43	21 55	0 36	13 5	16 43	23 5	22 57	9 2	6 53	1 45			
M24	20 39	12 54	3 5	11 32	3 42	19 18	0 58	4 40	1 15	15 5	0 47	9 22	1 44	14 31	0 43	21 55	0 36	13 5	16 43	23 5	22 57	9 5	6 54	1 45			
T 25	20 51	7 34	3 59	11 38	3 44	18 56	0 44	4 57	1 15	15 4	0 47	9 21	1 44	14 31	0 43	21 55	0 36	13 5	16 43	23 5	22 57	9 7	6 55	1 45			
W26	21 2	1 46	4 40	11 47	3 45	18 34	0 30	5 15	1 15	15 3	0 48	9 20	1 44	14 31	0 43	21 55	0 36	13 5	16 43	23 5	22 57	9 10	6 56	1 45			
T 27	21 12	4n14	5 5	11 57	3 45	18 13	0 16	5 32	1 14	15 3	0 48	9 20	1 45	14 31	0 44	21 54	0 36	13 5	16 44	23 5	22 58	9 13	6 57	1 45			
F 28	21 22	10 6	5 11	12 10	3 44	17 53	0 2	5 50	1 14	15 2	0 48	9 19	1 45	14 31	0 44	21 54	0 36	13 5	16 44	23 5	22 58	9 15	6 58	1 45			
S 29	21 32	15 27	4 56	12 24	3 43	17 34	0s11	6 7	1 14	15 2	0 48	9 18	1 45	14 31	0 44	21 54	0 35	13 5	16 44	23 5	22 58	9 18	6 59	1 45			
S 30	21 41	19 55	4 22	12 40	3 40	17 15	0 24	6 24	1 13	15 1	0 49	9 18	1 45	14 31	0 44	21 54	0 35	13 5	16 45	23 6	22 59	9 21	7 0	1 45			
M31	21n50	23n 5	3n31	12n58	3s37	16n57	0s37	6n41	1s13	15s 1	0s49	9s17	1s46	14s31	0s44	21n54	0s35	13s 5	16s45	23s 6	22s59	9s23	7n 1	1n45			

ASTRODIENST EPHEMERIS for the year 1582

geocentric

JUNE 1582 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 36 10	9II53'56	12II 2	168 8	18°R49	20V42	21≈57	10H31	23°R10	16828	5V43	10°R 7	11337	11Δ52	13V43	T 1
W 2	16 40 7	10°51'20	26°11	17° 6	18833	21°26	21°58	10°33	23≈10	16°30	5°44	1035	11°34	11°58	13°45	W 2
T 3	16 44 3	11°48'43	9859	18° 8	18°20	22°11	22° 0	10°35	23° 9	16°31	5°44	10°D 5	11°31	12° 5	13°48	T 3
F 4	16 48 0	12°46'05	23°23	19°13	18° 9	22°55	22° 1	10°37	23° 9	16°33	5°45	10° 5	11°28	12°12	13°50	F 4
S 5	16 51 57	13°43'26	6823	20°21	18° 0	23°40	22° 3	10°38	23° 9	16°35	5°46	10° 6	11°24	12°18	13°52	S 5
S 6	16 55 53	14°40'46	19° 2	21°33	17°54	24°24	22° 4	10°40	23° 8	16°37	5°46	10° 8	11°21	12°25	13°54	S 6
M 7	16 59 50	15°38'04	1723	22°48	17°51	25° 8	22° 5	10°42	23° 8	16°39	5°47	10° 9	11°18	12°32	13°57	M 7
T 8	17 3 46	16°35'22	13°30	24° 6	17°D49	25°53	22° 5	10°43	23° 7	16°41	5°48	10°R10	11°15	12°39	13°59	T 8
W 9	17 7 43	17°32'39	25°28	25°27	17°50	26°37	22° 6	10°44	23° 7	16°43	5°48	10°10	11°12	12°45	14° 1	W 9
T 10	17 11 39	18°29'55	7Δ22	26°52	17°53	27°21	22° 6	10°46	23° 6	16°45	5°49	10° 9	11° 9	12°52	14° 3	T 10
F 11	17 15 36	19°27'11	19°15	28°19	17°59	28° 5	22°R 6	10°47	23° 6	16°47	5°49	10° 7	11° 5	12°59	14° 5	F 11
S 12	17 19 32	20°24'25	1713	29°50	18° 6	28°49	22° 6	10°48	23° 5	16°49	5°50	10° 4	11° 2	13° 6	14° 7	S 12
S 13	17 23 29	21°21'39	13°17	1II23	18°16	29°33	22° 6	10°49	23° 4	16°51	5°51	10° 1	10°59	13°12	14° 9	S 13
M14	17 27 26	22°18'52	25°32	3° 0	18°28	0817	22° 5	10°49	23° 4	16°53	5°51	9°58	10°56	13°19	14°10	M14
T 15	17 31 22	23°16'05	7Δ59	4°39	18°42	1° 1	22° 5	10°50	23° 3	16°55	5°52	9°56	10°53	13°26	14°12	T 15
W16	17 35 19	24°13'17	20°40	6°22	18°58	1°44	22° 4	10°51	23° 2	16°57	5°52	9°55	10°50	13°32	14°14	W16
T 17	17 39 15	25°10'29	3334	8° 7	19°16	2°28	22° 3	10°51	23° 1	16°59	5°52	9°D54	10°46	13°39	14°16	T 17
F 18	17 43 12	26° 7'41	16°43	9°55	19°35	3°12	22° 1	10°52	23° 0	17° 2	5°53	9°54	10°43	13°46	14°17	F 18
S 19	17 47 8	27° 4'52	0≈ 5	11°46	19°57	3°55	22° 0	10°52	22°59	17° 4	5°53	9°54	10°40	13°53	14°19	S 19
S 20	17 51 5	28° 2'03	13°40	13°40	20°20	4°39	21°58	10°52	22°58	17° 6	5°54	9°55	10°37	13°59	14°20	S 20
M21	17 55 2	28°59'14	27°26	15°36	20°45	5°22	21°57	10°53	22°57	17° 8	5°54	9°56	10°34	14° 6	14°22	M21
T 22	17 58 58	29°56'25	11H24	17°34	21°11	6° 5	21°55	10°R53	22°56	17°10	5°54	9°57	10°30	14°13	14°23	T 22
W23	18 2 55	0853'36	25°30	19°35	21°39	6°49	21°52	10°53	22°55	17°12	5°55	9°R57	10°27	14°19	14°25	W23
T 24	18 6 51	1°50'48	9V43	21°38	22° 9	7°32	21°50	10°52	22°54	17°14	5°55	9°57	10°24	14°26	14°26	T 24
F 25	18 10 48	2°47'59	24° 2	23°43	22°39	8°15	21°47	10°52	22°52	17°17	5°55	9°57	10°21	14°33	14°27	F 25
S 26	18 14 44	3°45'11	8822	25°49	23°12	8°58	21°45	10°52	22°51	17°19	5°55	9°56	10°18	14°40	14°29	S 26
S 27	18 18 41	4°42'23	22°39	27°57	23°45	9°41	21°42	10°51	22°50	17°21	5°56	9°56	10°15	14°46	14°30	S 27
M28	18 22 37	5°39'35	6II51	085	24°20	10°24	21°38	10°51	22°48	17°23	5°56	9°55	10°11	14°53	14°31	M28
T 29	18 26 34	6°36'47	20°53	2°15	24°57	11° 7	21°35	10°50	22°47	17°25	5°56	9°55	10° 8	15° 0	14°32	T 29
W30	18 30 31	7834'00	4841	4825	25834	11849	21≈32	10H49	22≈46	17827	5V56	9°D55	1035	15Δ 7	14V33	W30

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	
T 1	21n59	24n43	2n27	13n18	3s33	16n40	0s49	6n58	1s13	15s 0	0s49	9s16	1s46	14s31	0s44	21n53
W 2	22 7	24 42	1 15	13 38	3 29	16 25	1 1	7 15	1 13	15 0	0 50	9 16	1 46	14 31	0 44	21 53
T 3	22 15	23 8	0 1	14 0	3 24	16 10	1 12	7 32	1 12	15 0	0 50	9 15	1 46	14 31	0 44	21 53
F 4	22 23	20 17	1s12	14 24	3 18	15 56	1 24	7 49	1 12	14 59	0 50	9 15	1 47	14 31	0 44	21 53
S 5	22 30	16 28	2 19	14 48	3 11	15 43	1 34	8 6	1 12	14 59	0 50	9 14	1 47	14 31	0 44	21 53
S 6	22 37	12 1	3 18	15 14	3 4	15 32	1 45	8 22	1 11	14 59	0 51	9 14	1 47	14 32	0 44	21 52
M 7	22 43	7 11	4 5	15 40	2 56	15 21	1 55	8 39	1 11	14 59	0 51	9 14	1 47	14 32	0 44	21 52
T 8	22 49	2 10	4 41	16 8	2 48	15 12	2 4	8 55	1 11	14 59	0 51	9 13	1 48	14 32	0 44	21 52
W 9	22 55	2s51	5 4	16 35	2 39	15 4	2 13	9 12	1 10	14 59	0 51	9 13	1 48	14 32	0 44	21 52
T 10	23 0	7 44	5 14	17 4	2 30	14 56	2 21	9 28	1 10	14 59	0 52	9 13	1 48	14 32	0 44	21 52
F 11	23 4	12 20	5 10	17 33	2 20	14 50	2 30	9 44	1 10	15 0	0 52	9 13	1 48	14 33	0 44	21 51
S 12	23 9	16 30	4 53	18 2	2 10	14 45	2 37	10 0	1 9	15 0	0 52	9 12	1 49	14 33	0 44	21 51
S 13	23 13	20 3	4 23	18 32	2 0	14 40	2 45	10 16	1 9	15 0	0 53	9 12	1 49	14 33	0 44	21 51
M14	23 16	22 46	3 41	19 1	1 49	14 37	2 51	10 32	1 8	15 1	0 53	9 12	1 49	14 33	0 44	21 51
T 15	23 19	24 26	2 47	19 31	1 38	14 34	2 58	10 47	1 8	15 1	0 53	9 12	1 49	14 34	0 44	21 50
W16	23 22	24 54	1 44	20 0	1 27	14 33	3 4	11 3	1 7	15 2	0 53	9 12	1 50	14 34	0 44	21 50
T 17	23 24	24 2	0 35	20 28	1 15	14 32	3 10	11 18	1 7	15 2	0 54	9 12	1 50	14 34	0 44	21 50
F 18	23 26	21 49	0n38	20 56	1 4	14 32	3 15	11 34	1 7	15 3	0 54	9 12	1 50	14 35	0 44	21 50
S 19	23 28	18 24	1 49	21 23	0 52	14 33	3 20	11 49	1 6	15 4	0 54	9 12	1 50	14 35	0 44	21 49
S 20	23 29	13 57	2 56	21 49	0 40	14 35	3 25	12 4	1 6	15 4	0 54	9 12	1 51	14 35	0 44	21 49
M21	23 29	8 44	3 54	22 14	0 29	14 37	3 29	12 19	1 5	15 5	0 55	9 13	1 51	14 36	0 44	21 49
T 22	23 30	3 1	4 38	22 38	0 17	14 40	3 33	12 34	1 5	15 6	0 55	9 13	1 51	14 36	0 45	21 49
W23	23 29	2n54	5 7	22 59	0 6	14 44	3 36	12 48	1 4	15 7	0 55	9 13	1 51	14 37	0 45	21 48
T 24	23 29	8 42	5 16	23 19	0n 5	14 48	3 40	13 3	1 4	15 8	0 55	9 13	1 51	14 37	0 45	21 48
F 25	23 28	14 5	5 7	23 37	0 16	14 53	3 43	13 17	1 3	15 9	0 56	9 14	1 52	14 38	0 45	21 48
S 26	23 26	18 43	4 39	23 53	0 27	14 58	3 46	13 32	1 3	15 10	0 56	9 14	1 52	14 38	0 45	21 48
S 27	23 25	22 14	3 53	24 6	0 37	15 4	3 48	13 46	1 2	15 12	0 56	9 14	1 52	14 38	0 45	21 47
M28	23 22	24 21	2 53	24 16	0 47	15 11	3 50	14 0	1 2	15 13	0 57	9 15	1 52	14 39	0 45	21 47
T 29	23 20	24 54	1 44	24 24	0 56	15 17	3 52	14 14	1 1	15 14	0 57	9 15	1 53	14 39	0 45	21 47
W30	23n17	23n54	0n29	24n29	1n 4	15n25	3s54	14n27	1s 1	15s16	0s57	9s16	1s53	14s40	0s45	21n46

Julian Day Number = 2299024.5, Delta T = 115.83 sec

Ecliptic obliquity = 23°29'38", Nutation = 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 18°54'45", Lahiri = 18°01'46"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1582
geocentric

JULY 1582 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	18 34 27	8 ^h 31'12"	18 ^h 13'	6 ^h 35'	26 ^h 12'	12 ^h 32'	21 ^h 28'	10 ^h 49'	22 ^h 44'	17 ^h 30'	5 ^h 56'	9 ^h 35'	10 ^h 32'	15 ^h 13'	14 ^h 34'	T 1
F 2	18 38 24	9 ^h 28'25"	1 ^h 12'27"	8 ^h 45'	26 ^h 52'	13 ^h 15'	21 ^h 24'	10 ^h 48'	22 ^h 43'	17 ^h 32'	5 ^h 56'	9 ^h 55'	9 ^h 59'	15 ^h 20'	14 ^h 35'	F 2
S 3	18 42 20	10 ^h 25'37"	14 ^h 21'	10 ^h 55'	27 ^h 33'	13 ^h 57'	21 ^h 20'	10 ^h 47'	22 ^h 41'	17 ^h 34'	5 ^h 56'	9 ^h 55'	9 ^h 56'	15 ^h 27'	14 ^h 36'	S 3
S 4	18 46 17	11 ^h 22'50"	26 ^h 58'	13 ^h 4'	28 ^h 14'	14 ^h 39'	21 ^h 16'	10 ^h 46'	22 ^h 40'	17 ^h 36'	5 ^h 57'	9 ^h 55'	9 ^h 52'	15 ^h 33'	14 ^h 37'	S 4
M 5	18 50 13	12 ^h 20'02"	9 ^h 11'19"	15 ^h 12'	28 ^h 57'	15 ^h 22'	21 ^h 12'	10 ^h 44'	22 ^h 38'	17 ^h 39'	5 ^h 57'	9 ^h 55'	9 ^h 49'	15 ^h 40'	14 ^h 38'	M 5
T 6	18 54 10	13 ^h 17'14"	21 ^h 27'	17 ^h 20'	29 ^h 40'	16 ^h 4'	21 ^h 7'	10 ^h 43'	22 ^h 36'	17 ^h 41'	5 ^h 57'	9 ^h 54'	9 ^h 46'	15 ^h 47'	14 ^h 38'	T 6
W 7	18 58 6	14 ^h 14'27"	3 ^h 26'	19 ^h 26'	0 ^h 11'25"	16 ^h 46'	21 ^h 2'	10 ^h 42'	22 ^h 35'	17 ^h 43'	5 ^h 57'	9 ^h 54'	9 ^h 43'	15 ^h 54'	14 ^h 39'	W 7
T 8	19 2 3	15 ^h 11'39"	15 ^h 20'	21 ^h 31'	1 ^h 10'	17 ^h 28'	20 ^h 58'	10 ^h 40'	22 ^h 33'	17 ^h 45'	5 ^h 57'	9 ^h 54'	9 ^h 40'	16 ^h 0'	14 ^h 40'	T 8
F 9	19 6 0	16 ^h 8'52"	27 ^h 14'	23 ^h 34'	1 ^h 56'	18 ^h 10'	20 ^h 53'	10 ^h 38'	22 ^h 31'	17 ^h 47'	5 ^h 56'	9 ^h 54'	9 ^h 36'	16 ^h 7'	14 ^h 40'	F 9
S 10	19 9 56	17 ^h 6'05"	9 ^h 11'13"	25 ^h 36'	2 ^h 43'	18 ^h 52'	20 ^h 47'	10 ^h 37'	22 ^h 29'	17 ^h 50'	5 ^h 56'	9 ^h 54'	9 ^h 33'	16 ^h 14'	14 ^h 41'	S 10
S 11	19 13 53	18 ^h 3'17"	21 ^h 19'	27 ^h 36'	3 ^h 31'	19 ^h 34'	20 ^h 42'	10 ^h 35'	22 ^h 28'	17 ^h 52'	5 ^h 56'	9 ^h 55'	9 ^h 30'	16 ^h 21'	14 ^h 41'	S 11
M 12	19 17 49	19 ^h 0'31"	3 ^h 27'39"	29 ^h 35'	4 ^h 19'	20 ^h 16'	20 ^h 37'	10 ^h 33'	22 ^h 26'	17 ^h 54'	5 ^h 56'	9 ^h 56'	9 ^h 27'	16 ^h 27'	14 ^h 42'	M 12
T 13	19 21 46	19 ^h 57'44"	16 ^h 14'	1 ^h 13'32"	5 ^h 8'	20 ^h 57'	20 ^h 31'	10 ^h 31'	22 ^h 24'	17 ^h 56'	5 ^h 56'	9 ^h 57'	9 ^h 24'	16 ^h 34'	14 ^h 42'	T 13
W 14	19 25 42	20 ^h 54'58"	29 ^h 7'	3 ^h 27'	5 ^h 58'	21 ^h 39'	20 ^h 25'	10 ^h 29'	22 ^h 22'	17 ^h 59'	5 ^h 56'	9 ^h 57'	9 ^h 21'	16 ^h 41'	14 ^h 42'	W 14
T 15	19 29 39	21 ^h 52'12"	12 ^h 31'19"	5 ^h 20'	6 ^h 49'	22 ^h 20'	20 ^h 19'	10 ^h 27'	22 ^h 20'	18 ^h 1'	5 ^h 56'	9 ^h 58'	9 ^h 17'	16 ^h 47'	14 ^h 42'	T 15
F 16	19 33 35	22 ^h 49'26"	25 ^h 50'	7 ^h 12'	7 ^h 40'	23 ^h 2'	20 ^h 13'	10 ^h 25'	22 ^h 18'	18 ^h 3'	5 ^h 56'	9 ^h 57'	9 ^h 14'	16 ^h 54'	14 ^h 43'	F 16
S 17	19 37 32	23 ^h 46'42"	9 ^h 23'38"	9 ^h 1'	8 ^h 32'	23 ^h 43'	20 ^h 7'	10 ^h 22'	22 ^h 16'	18 ^h 5'	5 ^h 55'	9 ^h 56'	9 ^h 11'	17 ^h 1'	14 ^h 43'	S 17
S 18	19 41 29	24 ^h 43'57"	23 ^h 40'	10 ^h 49'	9 ^h 24'	24 ^h 24'	20 ^h 1'	10 ^h 20'	22 ^h 14'	18 ^h 7'	5 ^h 55'	9 ^h 55'	9 ^h 8'	17 ^h 8'	14 ^h 43'	S 18
M 19	19 45 25	25 ^h 41'14"	7 ^h 25'52"	12 ^h 36'	10 ^h 17'	25 ^h 5'	19 ^h 55'	10 ^h 17'	22 ^h 12'	18 ^h 10'	5 ^h 55'	9 ^h 53'	9 ^h 5'	17 ^h 14'	14 ^h 43'	M 19
T 20	19 49 22	26 ^h 38'31"	22 ^h 10'	14 ^h 20'	11 ^h 11'	25 ^h 46'	19 ^h 48'	10 ^h 15'	22 ^h 10'	18 ^h 12'	5 ^h 55'	9 ^h 51'	9 ^h 2'	17 ^h 21'	14 ^h 43'	T 20
W 21	19 53 18	27 ^h 35'50"	6 ^h 30'	16 ^h 3'	12 ^h 5'	26 ^h 27'	19 ^h 41'	10 ^h 12'	22 ^h 8'	18 ^h 14'	5 ^h 54'	9 ^h 49'	8 ^h 58'	17 ^h 28'	14 ^h 43'	W 21
T 22	19 57 15	28 ^h 33'09"	20 ^h 49'	17 ^h 44'	13 ^h 0'	27 ^h 8'	19 ^h 35'	10 ^h 9'	22 ^h 6'	18 ^h 16'	5 ^h 54'	9 ^h 48'	8 ^h 55'	17 ^h 34'	14 ^h 43'	T 22
F 23	20 1 11	29 ^h 30'30"	5 ^h 2'	19 ^h 23'	13 ^h 55'	27 ^h 49'	19 ^h 28'	10 ^h 7'	22 ^h 4'	18 ^h 19'	5 ^h 54'	9 ^h 48'	8 ^h 52'	17 ^h 41'	14 ^h 42'	F 23
S 24	20 5 8	0 ^h 12'51"	19 ^h 7'	21 ^h 1'	14 ^h 51'	28 ^h 29'	19 ^h 21'	10 ^h 4'	22 ^h 1'	18 ^h 21'	5 ^h 53'	9 ^h 49'	8 ^h 49'	17 ^h 48'	14 ^h 42'	S 24
S 25	20 9 4	1 ^h 25'14"	3 ^h 11'4"	22 ^h 37'	15 ^h 47'	29 ^h 10'	19 ^h 14'	10 ^h 1'	21 ^h 59'	18 ^h 23'	5 ^h 53'	9 ^h 50'	8 ^h 46'	17 ^h 55'	14 ^h 42'	S 25
M 26	20 13 1	2 ^h 22'38"	16 ^h 50'	24 ^h 11'	16 ^h 44'	29 ^h 50'	19 ^h 7'	9 ^h 58'	21 ^h 57'	18 ^h 25'	5 ^h 52'	9 ^h 52'	8 ^h 42'	18 ^h 1'	14 ^h 41'	M 26
T 27	20 16 58	3 ^h 20'04"	0 ^h 25'	25 ^h 43'	17 ^h 41'	0 ^h 11'31"	18 ^h 59'	9 ^h 54'	21 ^h 55'	18 ^h 27'	5 ^h 52'	9 ^h 53'	8 ^h 39'	18 ^h 8'	14 ^h 41'	T 27
W 28	20 20 54	4 ^h 17'30"	13 ^h 48'	27 ^h 14'	18 ^h 38'	1 ^h 11'	18 ^h 52'	9 ^h 51'	21 ^h 53'	18 ^h 29'	5 ^h 52'	9 ^h 53'	8 ^h 36'	18 ^h 15'	14 ^h 41'	W 28
T 29	20 24 51	5 ^h 14'57"	26 ^h 58'	28 ^h 43'	19 ^h 36'	1 ^h 51'	18 ^h 45'	9 ^h 48'	21 ^h 50'	18 ^h 32'	5 ^h 51'	9 ^h 52'	8 ^h 33'	18 ^h 22'	14 ^h 40'	T 29
F 30	20 28 47	6 ^h 12'25"	9 ^h 12'54"	0 ^h 10'10"	20 ^h 35'	2 ^h 31'	18 ^h 37'	9 ^h 45'	21 ^h 48'	18 ^h 34'	5 ^h 51'	9 ^h 50'	8 ^h 30'	18 ^h 28'	14 ^h 40'	F 30
S 31	20 32 44	7 ^h 10'54"	22 ^h 13'37"	1 ^h 11'35"	21 ^h 11'34"	3 ^h 11'11"	18 ^h 30'	9 ^h 41'	21 ^h 46'	18 ^h 36'	5 ^h 50'	9 ^h 46'	8 ^h 27'	18 ^h 23'	14 ^h 39'	S 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
T 1	23n13	21n30	0s46	24n32	1n12	15n32	3s55	14n41	1s 0	15s17	0s57	9s16	1s53	14s40	0s45	21n46	0s35	13s10	16s56	23s 7	23s 7	10s44	7n22	1n45	
F 2	23 9	17 59	1 57	24 31	1 19	15 40	3 56	14 54	1 0	15 18	0 58	9 17	1 53	14 41	0 45	21 46	0 35	13 10	16 56	23 7	23 7	10 46	7 23	1 45	
S 3	23 5	13 42	2 59	24 28	1 25	15 48	3 57	15 7	0 59	15 20	0 58	9 18	1 54	14 41	0 45	21 46	0 35	13 10	16 57	23 7	23 7	10 49	7 23	1 45	
S 4	23 0	8 55	3 52	24 22	1 31	15 57	3 58	15 21	0 58	15 22	0 58	9 18	1 54	14 42	0 45	21 45	0 35	13 10	16 57	23 7	23 8	10 51	7 24	1 45	
M 5	22 55	3 53	4 33	24 13	1 36	16 5	3 59	15 33	0 58	15 23	0 58	9 19	1 54	14 43	0 45	21 45	0 35	13 11	16 57	23 7	23 8	10 54	7 24	1 45	
T 6	22 50	1s12	5 1	24 1	1 40	16 14	3 59	15 46	0 57	15 25	0 59	9 20	1 54	14 43	0 45	21 45	0 35	13 11	16 58	23 7	23 8	10 56	7 24	1 46	
W 7	22 44	6 11	5 15	23 47	1 44	16 23	3 59	15 59	0 57	15 27	0 59	9 20	1 55	14 44	0 45	21 45	0 35	13 11	16 58	23 7	23 8	10 59	7 24	1 46	
T 8	22 38	10 54	5 15	23 31	1 46	16 32	3 59	16 11	0 56	15 28	0 59	9 21	1 55	14 44	0 45	21 44	0 35	13 12	16 59	23 7	23 8	11 1	7 25	1 46	
F 9	22 31	15 12	5 2	23 12	1 48	16 42	3 59	16 24	0 55	15 30	0 59	9 22	1 55	14 45	0 45	21 44	0 35	13 12	16 59	23 7	23 9	11 4	7 25	1 46	
S 10	22 24	18 57	4 36	22 52	1 49	16 51	3 58	16 36	0 55	15 32	1 0	9 23	1 55	14 46	0 45	21 44	0 35	13 13	16 59	23 7	23 9	11 7	7 25	1 46	
S 11	22 16	21 57	3 58	22 29	1 50	17 1	3 58	16 48	0 54	15 34	1 0	9 24	1 56	14 46	0 45	21 43	0 35	13 13	17 0	23 7	23 9	11 9	7 25	1 46	
M12	22 9	24 0	3 8	22 4	1 50	17 11	3 57	17 0	0 53	15 36	1 0	9 25	1 56	14 47	0 45	21 43	0 35	13 13	17 0	23 7	23 9	11 12	7 26	1 46	
T 13	22 0	24 54	2 8	21 38	1 49	17 20	3 56	17 11	0 53	15 38	1 0	9 26	1 56	14 47	0 45	21 43	0 35	13 14	17 0	23 7	23 10	11 14	7 26	1 46	
W14	21 52	24 29	1 0	21 10	1 47	17 30	3 55	17 23	0 52	15 40	1 0	9 27	1 56	14 48	0 45	21 43	0 35	13 14	17 1	23 7	23 10	11 17	7 26	1 46	
T 15	21 43	22 42	0n13	20 41	1 45	17 40	3 53	17 34	0 51	15 42	1 1	9 28	1 56	14 49	0 45	21 42	0 35	13 14	17 1	23 7	23 10	11 19	7 26	1 46	
F 16	21 33	19 37	1 27	20 10	1 43	17 49	3 52	17 45	0 51	15 44	1 1	9 29	1 57	14 49	0 45	21 42	0 35	13 15	17 1	23 7	23 10	11 22	7 26	1 46	
S 17	21 24	15 22	2 37	19 39	1 40	17 59	3 50	17 56	0 50	15 47	1 1	9 30	1 57	14 50	0 45	21 42	0 35	13 15	17 2	23 7	23 10	11 24	7 26	1 46	
S 18	21 14	10 14	3 38	19 6	1 36	18 9	3 49	18 7	0 49	15 49	1 1	9 31	1 57	14 51	0 45	21 41	0 35	13 16	17 2	23 7	23 11	11 27	7 26	1 46	
M19	21 3	4 30	4 28	18 32	1 32	18 18	3 47	18 18	0 49	15 51	1 2	9 32	1 57	14 51	0 45	21 41	0 35	13 16	17 3	23 8	23 11	11 29	7 26	1 46	
T 20	20 52	1n29	5 0	17 57	1 27	18 27	3 45	18 28	0 48	15 53	1 2	9 33	1 58	14 52	0 45	21 41	0 35	13 17	17 3	23 8	23 11	11 32	7 26	1 46	
W21	20 41	7 24	5 15	17 22	1 22	18 37	3 43	18 38	0 47	15 56	1 2	9 35	1 58	14 53	0 45	21 41	0 35	13 17	17 3	23 8	23 11	11 34	7 26	1 46	
T 22	20 30	12 55	5 9	16 46	1 16	18 46	3 40	18 49	0 46	15 58	1 2	9 36	1 58	14 53	0 45	21 40	0 35	13 17	17 4	23 8	23 12	11 36	7 26	1 46	
F 23	20 18	17 42	4 45	16 9	1 10	18 55	3 38	18 59	0 46	16 0	1 2	9 37	1 58	14 54	0 45	21 40	0 35	13 18	17 4	23 8	23 12	11 39	7 26	1 46	
S 24	20 6	21 27	4 4	15 32	1 4	19 4	3 36	19 8	0 45	16 3	1 3	9 38	1 58	14 55	0 45	21 40	0 35	13 18	17 4	23 8	23 12	11 41	7 26	1 46	
S 25	19 53	23 54	3 9	14 54	0 57	19 12	3 33	19 18	0 44	16 5	1 3	9 40	1 59	14 56	0 45	21 39	0 35	13 19	17 5	23 8	23 12	11 44	7 26	1 46	
M26	19 40	24 53	2 3	14 17	0 50	19 20	3 30	19 27	0 43	16 7	1 3	9 41	1 59	14 56	0 45	21 39	0 35	13 19	17 5	23 8	23 12	11 46	7 26	1 46	
T 27	19 27	24 21	0 52	13 38	0 42	19 28	3 28	19 37	0 43	16 10	1 3	9 42	1 59	14 57	0 45	21 39	0 35	13 20	17 5	23 8	23 13	11 49	7 26	1 46	
W28	19 14	22 25	0s22	13 0	0 35	19 36	3 25	19 46	0 42	16 12	1 3	9 44	1 59	14 58	0 45	21 39	0 35	13 20	17 6	23 8	23 13	11 51	7 26	1 46	
T 29	19 0	19 18	1 32	12 22	0 27	19 44	3 22	19 54	0 41	16 15	1 3	9 45	1 59	14 59	0 45	21 38	0 35	13 21	17 6	23 8	23 13	11 54	7 25	1 46	
F 30	18 46	15 17	2 37	11 43	0 18	19 51	3 19	20 3	0 40	16 17	1 4	9 47	2 0	14 59	0 45	21 38	0 35	13 21	17 6	23 8	23 13	11 56	7 25	1 46	
S 31	18n31	10n39	3s33	11n 5	0n10	19n58	3s16	20n12	0s39	16s20	1s 4	9s48	2s 0	15s 0	0s45	21n38	0s35	13s22	17s 7	23s 8	23s13	11s59	7n25	1n46	

ASTRODIENST EPHEMERIS for the year 1582

geocentric

AUGUST 1582 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 36 40	8°Ω 7'24	5°♍ 6	2°♍ 59	22°♍ 33	3°♍ 51	18°R22	9°R38	21°R44	18°♌38	5°R50	9°R42	8°♌23	18°♌42	14°R38	S 1
M 2	20 40 37	9° 4'55	17°22	4°20	23°32	4°30	18°♌15	9°♌34	21°♌41	18°40	5°♍49	9°♌37	8°20	18°48	14°♍37	M 2
T 3	20 44 33	10° 2'27	29°28	5°40	24°32	5°10	18° 7	9°31	21°39	18°42	5°49	9°32	8°17	18°55	14°37	T 3
W 4	20 48 30	11° 0'00	11°♌25	6°58	25°32	5°49	17°59	9°27	21°37	18°44	5°48	9°28	8°14	19° 2	14°36	W 4
T 5	20 52 27	11°57'33	23°18	8°14	26°33	6°29	17°51	9°23	21°34	18°46	5°47	9°25	8°11	19° 9	14°35	T 5
F 6	20 56 23	12°55'08	5°♍11	9°27	27°34	7° 8	17°44	9°19	21°32	18°49	5°47	9°23	8° 8	19°15	14°34	F 6
S 7	21 0 20	13°52'44	17° 8	10°39	28°35	7°47	17°36	9°15	21°30	18°51	5°46	9°D23	8° 4	19°22	14°33	S 7
S 8	21 4 16	14°50'20	29°13	11°49	29°37	8°26	17°28	9°12	21°27	18°53	5°45	9°24	8° 1	19°29	14°32	S 8
M 9	21 8 13	15°47'58	11°♌32	12°56	30°38	9° 5	17°20	9° 8	21°25	18°55	5°45	9°25	7°58	19°35	14°31	M 9
T 10	21 12 9	16°45'37	24° 9	14° 1	1°40	9°44	17°12	9° 4	21°22	18°57	5°44	9°27	7°55	19°42	14°30	T 10
W11	21 16 6	17°43'17	7°♌8	15° 3	2°43	10°22	17° 4	8°59	21°20	18°59	5°43	9°R28	7°52	19°49	14°28	W11
T 12	21 20 2	18°40'57	20°31	16° 3	3°46	11° 1	16°56	8°55	21°18	19° 1	5°43	9°27	7°48	19°56	14°27	T 12
F 13	21 23 59	19°38'40	4°♌19	17° 0	4°49	11°39	16°49	8°51	21°15	19° 3	5°42	9°25	7°45	20° 2	14°26	F 13
S 14	21 27 56	20°36'23	18°29	17°54	5°52	12°17	16°41	8°47	21°13	19° 5	5°41	9°21	7°42	20° 9	14°25	S 14
S 15	21 31 52	21°34'08	2°♌57	18°45	6°55	12°56	16°33	8°43	21°10	19° 7	5°40	9°15	7°39	20°16	14°23	S 15
M16	21 35 49	22°31'54	17°38	19°33	7°59	13°34	16°25	8°39	21° 8	19° 9	5°40	9° 9	7°36	20°23	14°22	M16
T 17	21 39 45	23°29'41	2°♍22	20°18	9° 3	14°11	16°17	8°34	21° 6	19°10	5°39	9° 2	7°33	20°29	14°20	T 17
W18	21 43 42	24°27'31	17° 4	20°59	10° 8	14°49	16°10	8°30	21° 3	19°12	5°38	8°57	7°29	20°36	14°19	W18
T 19	21 47 38	25°25'22	1°♌37	21°36	11°12	15°27	16° 2	8°25	21° 1	19°14	5°37	8°53	7°26	20°43	14°17	T 19
F 20	21 51 35	26°23'15	15°55	22° 9	12°17	16° 4	15°54	8°21	20°59	19°16	5°36	8°50	7°23	20°49	14°15	F 20
S 21	21 55 31	27°21'10	29°57	22°38	13°22	16°42	15°47	8°17	20°56	19°18	5°35	8°D50	7°20	20°56	14°14	S 21
S 22	21 59 28	28°19'07	13°♍43	23° 3	14°27	17°19	15°39	8°12	20°54	19°20	5°34	8°51	7°17	21° 3	14°12	S 22
M23	22 3 25	29°17'05	27°12	23°23	15°33	17°56	15°32	8° 8	20°51	19°22	5°34	8°52	7°14	21°10	14°10	M23
T 24	22 7 21	0°♍15'06	10°♌26	23°37	16°38	18°33	15°25	8° 3	20°49	19°23	5°33	8°R52	7°10	21°16	14° 8	T 24
W25	22 11 18	1°13'08	23°27	23°47	17°44	19°10	15°17	7°59	20°47	19°25	5°32	8°51	7° 7	21°23	14° 7	W25
T 26	22 15 14	2°11'13	6°♌15	23°R50	18°50	19°46	15°10	7°54	20°44	19°27	5°31	8°48	7° 4	21°30	14° 5	T 26
F 27	22 19 11	3° 9'19	18°53	23°48	19°57	20°23	15° 3	7°50	20°42	19°29	5°30	8°42	7° 1	21°36	14° 3	F 27
S 28	22 23 7	4° 7'26	1°♍20	23°40	21° 3	20°59	14°56	7°45	20°40	19°30	5°29	8°34	6°58	21°43	14° 1	S 28
S 29	22 27 4	5° 5'36	13°37	23°26	22°10	21°35	14°49	7°40	20°37	19°32	5°28	8°24	6°54	21°50	13°59	S 29
M30	22 31 0	6° 3'47	25°46	23° 5	23°17	22°12	14°42	7°36	20°35	19°34	5°27	8°13	6°51	21°57	13°57	M30
T 31	22 34 57	7°♍1'59	7°♌46	22°♍38	24°♌24	22°♍47	14°♌35	7°♌31	20°♌33	19°♌35	5°♍26	8°♌2	6°♌48	22°♌3	13°♍55	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	18n17	5n40	4s17	10n27	0n 1	20n 5	3s13	20n20	0s39	16s22	1s 4	9s50	2s 0	15s 1	0s45	21n37	0s35	13s22	17s 7	23s 8	23s14	12s 1	7n25	1n46			
M 2	18 2	0 34	4 49	9 49	0s 8	20 11	3 9	20 28	0 38	16 25	1 4	9 51	2 0	15 2	0 45	21 37	0 35	13 23	17 7	23 9	23 14	12 4	7 24	1 46			
T 3	17 46	4s29	5 7	9 11	0 18	20 17	3 6	20 36	0 37	16 27	1 4	9 53	2 0	15 2	0 46	21 37	0 35	13 23	17 8	23 9	23 14	12 6	7 24	1 46			
W 4	17 31	9 18	5 12	8 33	0 27	20 23	3 3	20 44	0 36	16 30	1 4	9 54	2 0	15 3	0 46	21 37	0 35	13 24	17 8	23 9	23 14	12 8	7 24	1 46			
T 5	17 15	13 45	5 3	7 56	0 37	20 28	2 59	20 52	0 35	16 32	1 5	9 56	2 1	15 4	0 46	21 36	0 35	13 24	17 8	23 10	23 14	12 11	7 23	1 46			
F 6	16 58	17 41	4 41	7 19	0 47	20 33	2 55	20 59	0 34	16 35	1 5	9 57	2 1	15 5	0 46	21 36	0 35	13 25	17 8	23 10	23 15	12 13	7 23	1 46			
S 7	16 42	20 56	4 7	6 43	0 57	20 37	2 52	21 6	0 34	16 37	1 5	9 59	2 1	15 5	0 46	21 36	0 35	13 25	17 9	23 10	23 15	12 16	7 23	1 46			
S 8	16 25	23 18	3 22	6 7	1 7	20 41	2 48	21 13	0 33	16 40	1 5	10 1	2 1	15 6	0 46	21 35	0 35	13 26	17 9	23 10	23 15	12 18	7 22	1 46			
M 9	16 8	24 38	2 26	5 32	1 17	20 45	2 44	21 20	0 32	16 42	1 5	10 2	2 1	15 7	0 46	21 35	0 35	13 26	17 9	23 10	23 15	12 20	7 22	1 46			
T 10	15 51	24 44	1 22	4 57	1 28	20 48	2 41	21 27	0 31	16 45	1 5	10 4	2 1	15 8	0 46	21 35	0 35	13 27	17 10	23 9	23 15	12 23	7 21	1 46			
W11	15 33	23 31	0 13	4 24	1 38	20 51	2 37	21 34	0 30	16 48	1 5	10 6	2 2	15 9	0 46	21 35	0 35	13 27	17 10	23 9	23 16	12 25	7 21	1 46			
T 12	15 16	20 56	1n 0	3 51	1 49	20 54	2 33	21 40	0 29	16 50	1 5	10 7	2 2	15 9	0 46	21 34	0 35	13 28	17 10	23 9	23 16	12 28	7 21	1 46			
F 13	14 58	17 6	2 11	3 19	1 59	20 56	2 29	21 46	0 28	16 52	1 6	10 9	2 2	15 10	0 46	21 34	0 35	13 28	17 11	23 10	23 16	12 30	7 20	1 46			
S 14	14 39	12 13	3 15	2 48	2 9	20 57	2 25	21 52	0 27	16 55	1 6	10 11	2 2	15 11	0 46	21 34	0 35	13 29	17 11	23 10	23 16	12 32	7 20	1 46			
S 15	14 21	6 34	4 9	2 19	2 20	20 58	2 21	21 58	0 26	16 57	1 6	10 12	2 2	15 12	0 46	21 33	0 35	13 30	17 11	23 10	23 16	12 35	7 19	1 46			
M16	14 2	0 30	4 47	1 50	2 30	20 58	2 17	22 4	0 25	17 0	1 6	10 14	2 2	15 12	0 46	21 33	0 35	13 30	17 11	23 11	23 17	12 37	7 18	1 46			
T 17	13 43	5n37	5 6	1 23	2 41	20 58	2 13	22 9	0 24	17 2	1 6	10 16	2 2	15 13	0 46	21 33	0 35	13 31	17 12	23 11	23 17	12 40	7 18	1 46			
W18	13 24	11 25	5 5	0 58	2 51	20 58	2 9	22 14	0 23	17 5	1 6	10 18	2 2	15 14	0 46	21 33	0 35	13 31	17 12	23 11	23 17	12 42	7 17	1 46			
T 19	13 5	16 30	4 44	0 34	3 1	20 57	2 5	22 20	0 22	17 7	1 6	10 19	2 3	15 15	0 46	21 32	0 35	13 32	17 12	23 12	23 17	12 44	7 17	1 46			
F 20	12 45	20 34	4 6	0 12	3 10	20 56	2 0	22 24	0 21	17 9	1 6	10 21	2 3	15 15	0 46	21 32	0 35	13 32	17 12	23 12	23 17	12 47	7 16	1 46			
S 21	12 25	23 21	3 14	0s 8	3 20	20 54	1 56	22 29	0 20	17 12	1 6	10 23	2 3	15 16	0 46	21 32	0 35	13 33	17 13	23 12	23 17	12 49	7 15	1 46			
S 22	12 5	24 40	2 11	0 26	3 29	20 51	1 52	22 34	0 19	17 14	1 6	10 25	2 3	15 17	0 46	21 32	0 35	13 33	17 13	23 12	23 18	12 51	7 15	1 46			
M23	11 45	24 30	1 2	0 42	3 38	20 48	1 48	22 38	0 18	17 16	1 6	10 26	2 3	15 18	0 46	21 31	0 35	13 34	17 13	23 12	23 18	12 54	7 14	1 46			
T 24	11 25	22 57	0s 8	0 55	3 46	20 44	1 44	22 43	0 17	17 19	1 6	10 28	2 3	15 18	0 46	21 31	0 35	13 35	17 13	23 12	23 18	12 56	7 13	1 46			
W25	11 4	20 11	1 17	1 6	3 53	20 40	1 39	22 47	0 16	17 21	1 6	10 30	2 3	15 19	0 46	21 31	0 35	13 35	17 13	23 12	23 18	12 59	7 13	1 46			
T 26	10 43	16 28	2 21	1 13	4 0	20 36	1 35	22 51	0 15	17 23	1 6	10 32	2 3	15 20	0 46	21 31	0 35	13 36	17 14	23 12	23 18	13 1	7 12	1 46			
F 27	10 22	12 4	3 17	1 18	4 6	20 30	1 31	22 54	0 14	17 25	1 6	10 34	2 3	15 21	0 46	21 30	0 35	13 36	17 14	23 12	23 18	13 3	7 11	1 46			
S 28	10 1	7 15	4 3	1 20	4 11	20 25	1 27	22 58	0 13	17 27	1 7	10 35	2 3	15 21	0 46	21 30	0 35	13 37	17 14	23 13	23 19	13 6	7 10	1 46			
S 29	9 40	2 12	4 36	1 18	4 16	20 19	1 23	23 1	0 12	17 29	1 7	10 37	2 3	15 22	0 46	21 30	0 35	13 37	17 14	23 14	23 19	13 8	7 9	1 46			
M30	9 18	2s51	4 57	1 12	4 18	20 12	1 18	23 5	0 11	17 31	1 7	10 39	2 4	15 23	0 46	21 30	0 35	13 38	17 14	23 14	23 19	13 10	7 9	1 46			
T 31	8n57	7s44	5s 4	1s 3	4s20	20n 4	1s14	23n 8	0s10	17s33	1s 7	10s41	2s 4	15s24	0s46	21n29	0s35	13s38	17s15	23s15	23s19	13s13	7n 8	1n46			

ASTRODIENST EPHEMERIS for the year 1582
geocentric

SEPTEMBER 1582 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	22 38 54	8 ^h 0'14	19 ^h 41	22°R 4	25 ^h 31	23 ^h 23	14°R29	7°R27	20°R31	19 ^h 37	5°R25	7°R53	6 ^h 45	22 ^h 10	13°R52	W 1
T 2	22 42 50	8°58'30	1 ^h 32	21 ^h 25	26°38	23°59	14 ^h 22	7 ^h 22	20 ^h 28	19°39	5°Y24	7 ^h 44	6°42	22°17	13°Y50	T 2
F 3	22 46 47	9°56'47	13°22	20°40	27°46	24°34	14°16	7°18	20°26	19°40	5°23	7°39	6°39	22°23	13°48	F 3
S 4	22 50 43	10°55'06	25°17	19°49	28°54	25° 9	14°10	7°13	20°24	19°42	5°22	7°35	6°35	22°30	13°46	S 4
S 5	22 54 40	11°53'27	7 ^h 19	18°55	0 ^h 2	25°44	14° 3	7° 8	20°22	19°43	5°21	7°D34	6°32	22°37	13°43	S 5
M 6	22 58 36	12°51'50	19°35	17°56	1°10	26°19	13°57	7° 4	20°20	19°45	5°20	7°34	6°29	22°44	13°41	M 6
T 7	23 2 33	13°50'14	2 ^h 9	16°56	2°18	26°54	13°52	6°59	20°18	19°46	5°19	7°R34	6°26	22°50	13°39	T 7
W 8	23 6 29	14°48'39	15° 6	15°54	3°26	27°28	13°46	6°55	20°15	19°48	5°18	7°34	6°23	22°57	13°36	W 8
T 9	23 10 26	15°47'07	28°30	14°52	4°35	28° 3	13°40	6°50	20°13	19°49	5°16	7°32	6°19	23° 4	13°34	T 9
F 10	23 14 23	16°45'35	12 ^h 23	13°52	5°44	28°37	13°35	6°46	20°11	19°50	5°15	7°28	6°16	23°10	13°32	F 10
S 11	23 18 19	17°44'06	26°44	12°56	6°52	29°11	13°30	6°41	20° 9	19°52	5°14	7°22	6°13	23°17	13°29	S 11
S 12	23 22 16	18°42'38	11 ^h 29	12° 4	8° 1	29°45	13°25	6°37	20° 7	19°53	5°13	7°13	6°10	23°24	13°27	S 12
M13	23 26 12	19°41'13	26°31	11°17	9°11	0 ^h 18	13°20	6°33	20° 5	19°55	5°12	7° 3	6° 7	23°31	13°24	M13
T 14	23 30 9	20°39'49	11 ^h 39	10°38	10°20	0°52	13°15	6°28	20° 3	19°56	5°11	6°52	6° 4	23°37	13°22	T 14
W15	23 34 5	21°38'27	26°44	10° 7	11°29	1°25	13°10	6°24	20° 1	19°57	5°10	6°43	6° 0	23°44	13°19	W15
T 16	23 38 2	22°37'07	11 ^h 36	9°45	12°39	1°58	13° 6	6°19	19°59	19°58	5° 9	6°35	5°57	23°51	13°16	T 16
F 17	23 41 58	23°35'50	26° 9	9°33	13°49	2°31	13° 2	6°15	19°58	20° 0	5° 7	6°30	5°54	23°58	13°14	F 17
S 18	23 45 55	24°34'35	10 ^h 18	9°D30	14°59	3° 4	12°57	6°11	19°56	20° 1	5° 6	6°28	5°51	24° 4	13°11	S 18
S 19	23 49 52	25°33'23	24° 4	9°38	16° 9	3°36	12°54	6° 7	19°54	20° 2	5° 5	6°D27	5°48	24°11	13° 8	S 19
M20	23 53 48	26°32'13	7 ^h 27	9°55	17°19	4° 8	12°50	6° 3	19°52	20° 3	5° 4	6°R28	5°45	24°18	13° 6	M20
T 21	23 57 45	27°31'05	20°30	10°22	18°29	4°40	12°46	5°59	19°50	20° 4	5° 3	6°27	5°41	24°24	13° 3	T 21
W22	0 1 41	28°29'59	3 ^h 17	10°58	19°39	5°12	12°43	5°54	19°49	20° 5	5° 2	6°25	5°38	24°31	13° 0	W22
T 23	0 5 38	29°28'55	15°50	11°43	20°50	5°44	12°40	5°50	19°47	20° 6	5° 1	6°20	5°35	24°38	12°58	T 23
F 24	0 9 34	0 ^h 27'54	28°12	12°37	22° 1	6°15	12°37	5°47	19°45	20° 7	4°59	6°12	5°32	24°45	12°55	F 24
S 25	0 13 31	1°26'55	10 ^h 25	13°38	23°11	6°46	12°34	5°43	19°44	20° 8	4°58	6° 1	5°29	24°51	12°52	S 25
S 26	0 17 27	2°25'58	22°31	14°46	24°22	7°17	12°31	5°39	19°42	20° 9	4°57	5°48	5°25	24°58	12°49	S 26
M27	0 21 24	3°25'03	4 ^h 32	15°59	25°33	7°48	12°29	5°35	19°41	20°10	4°56	5°34	5°22	25° 5	12°46	M27
T 28	0 25 20	4°24'10	16°27	17°19	26°44	8°18	12°27	5°31	19°39	20°11	4°55	5°19	5°19	25°11	12°44	T 28
W29	0 29 17	5°23'19	28°19	18°43	27°55	8°48	12°24	5°28	19°38	20°12	4°54	5° 6	5°16	25°18	12°41	W29
T 30	0 33 14	6 ^h 22'30	10 ^h 9	20 ^h 11	29° 7	9 ^h 18	12 ^h 23	5 ^h 24	19 ^h 36	20 ^h 13	4 ^h 52	4 ^h 54	5 ^h 13	25 ^h 25	12 ^h 38	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
W 1	8n35	12s18	4s57	0s50	4s20	19n57	1s10	23n11	0s 9	17s35	1s 7	10s42	2s 4	15s24	0s46	21n29	0s35	13s39	17s15	23s16	23s19	13s15	7n 7	1n46			
T 2	8 13	16 23	4 38	0 33	4 18	19 48	1 6	23 14	0 8	17 37	1 7	10 44	2 4	15 25	0 46	21 29	0 35	13 40	17 15	23 16	23 19	13 17	7 6	1 46			
F 3	7 51	19 49	4 7	0 12	4 15	19 39	1 1	23 16	0 7	17 39	1 7	10 46	2 4	15 26	0 46	21 29	0 35	13 40	17 15	23 16	23 20	13 20	7 5	1 46			
S 4	7 29	22 27	3 25	0n12	4 10	19 30	0 57	23 19	0 5	17 41	1 7	10 48	2 4	15 26	0 46	21 28	0 35	13 41	17 15	23 17	23 20	13 22	7 4	1 46			
S 5	7 7	24 7	2 34	0 40	4 3	19 20	0 53	23 21	0 4	17 43	1 7	10 49	2 4	15 27	0 45	21 28	0 35	13 41	17 16	23 17	23 20	13 24	7 3	1 46			
M 6	6 45	24 39	1 34	1 11	3 54	19 9	0 49	23 23	0 3	17 44	1 7	10 51	2 4	15 28	0 45	21 28	0 35	13 42	17 16	23 17	23 20	13 26	7 2	1 46			
T 7	6 22	23 57	0 29	1 45	3 43	18 58	0 45	23 25	0 2	17 46	1 7	10 53	2 4	15 28	0 45	21 28	0 35	13 42	17 16	23 17	23 20	13 29	7 2	1 46			
W 8	6 0	21 59	0n40	2 21	3 30	18 46	0 41	23 27	0 1	17 48	1 7	10 55	2 4	15 29	0 45	21 28	0 35	13 43	17 16	23 17	23 20	13 31	7 1	1 46			
T 9	5 37	18 44	1 49	2 58	3 15	18 34	0 37	23 29	0n 0	17 49	1 6	10 56	2 4	15 30	0 45	21 27	0 35	13 43	17 16	23 17	23 21	13 33	7 0	1 46			
F 10	5 14	14 21	2 54	3 36	2 59	18 21	0 32	23 31	0 2	17 51	1 6	10 58	2 4	15 30	0 45	21 27	0 35	13 44	17 16	23 17	23 21	13 36	6 59	1 46			
S 11	4 51	9 2	3 50	4 14	2 42	18 8	0 28	23 32	0 3	17 52	1 6	11 0	2 4	15 31	0 45	21 27	0 35	13 45	17 16	23 17	23 21	13 38	6 58	1 46			
S 12	4 29	3 5	4 32	4 51	2 23	17 55	0 24	23 34	0 4	17 54	1 6	11 1	2 4	15 32	0 45	21 27	0 35	13 45	17 16	23 18	23 21	13 40	6 57	1 46			
M13	4 6	3n 8	4 56	5 26	2 4	17 40	0 20	23 35	0 5	17 55	1 6	11 3	2 4	15 32	0 45	21 27	0 35	13 46	17 17	23 18	23 21	13 42	6 56	1 46			
T 14	3 42	9 13	5 0	5 59	1 44	17 26	0 17	23 36	0 7	17 56	1 6	11 5	2 4	15 33	0 45	21 26	0 35	13 46	17 17	23 19	23 21	13 45	6 55	1 46			
W15	3 19	14 44	4 43	6 30	1 24	17 10	0 13	23 37	0 8	17 58	1 6	11 6	2 4	15 33	0 45	21 26	0 35	13 47	17 17	23 19	23 21	13 47	6 54	1 46			
T 16	2 56	19 16	4 7	6 56	1 4	16 55	0 9	23 38	0 9	17 59	1 6	11 8	2 4	15 34	0 45	21 26	0 35	13 47	17 17	23 20	23 22	13 49	6 52	1 46			
F 17	2 33	22 30	3 16	7 19	0 45	16 38	0 5	23 39	0 10	18 0	1 6	11 9	2 4	15 35	0 45	21 26	0 35	13 48	17 17	23 20	23 22	13 51	6 51	1 46			
S 18	2 10	24 15	2 14	7 37	0 26	16 22	0 1	23 39	0 12	18 1	1 6	11 11	2 4	15 35	0 45	21 26	0 35	13 48	17 17	23 20	23 22	13 54	6 50	1 46			
S 19	1 46	24 27	1 5	7 51	0 8	16 4	0n 2	23 40	0 13	18 2	1 6	11 13	2 4	15 36	0 45	21 25	0 35	13 49	17 17	23 20	23 22	13 56	6 49	1 46			
M20	1 23	23 12	0s 5	8 0	0n 9	15 47	0 6	23 40	0 14	18 3	1 6	11 14	2 4	15 36	0 45	21 25	0 35	13 49	17 17	23 20	23 22	13 58	6 48	1 46			
T 21	0 59	20 43	1 14	8 5	0 25	15 29	0 10	23 40	0 16	18 4	1 6	11 16	2 4	15 37	0 45	21 25	0 35	13 50	17 17	23 20	23 22	14 0	6 47	1 46			
W22	0 36	17 15	2 17	8 4	0 39	15 10	0 13	23 41	0 17	18 5	1 6	11 17	2 4	15 37	0 45	21 25	0 35	13 50	17 17	23 20	23 22	14 3	6 46	1 45			
T 23	0 12	13 5	3 12	7 59	0 53	14 51	0 17	23 41	0 18	18 6	1 6	11 19	2 4	15 38	0 45	21 25	0 35	13 51	17 17	23 21	23 23	14 5	6 45	1 45			
F 24	0s11	8 25	3 57	7 50	1 5	14 32	0 20	23 41	0 20	18 7	1 6	11 20	2 4	15 38	0 45	21 25	0 35	13 51	17 17	23 21	23 23	14 7	6 44	1 45			
S 25	0 35	3 30	4 31	7 36	1 15	14 12	0 24	23 40	0 21	18 7	1 6	11 21	2 4	15 39	0 45	21 24	0 35	13 52	17 17	23 21	23 23	14 9	6 43	1 45			
S 26	0 58	1s29	4 51	7 19	1 25	13 51	0 27	23 40	0 23	18 8	1 6	11 23	2 4	15 39	0 45	21 24	0 35	13 52	17 17	23 22	23 23	14 12	6 41	1 45			
M27	1 22	6 23	4 59	6 58	1 33	13 31	0 30	23 40	0 24	18 9	1 5	11 24	2 4	15 40	0 45	21 24	0 35	13 53	17 17	23 23	23 23	14 14	6 40	1 45			
T 28	1 45	11 0	4 54	6 33	1 39	13 9	0 34	23 39	0 25	18 9	1 5	11 25	2 4	15 40	0 45	21 24	0 35	13 53	17 17	23 23	23 23	14 16	6 39	1 45			
W29	2 9	15 11	4 36	6 5	1 45	12 48	0 37	23 39	0 27	18 10	1 5	11 27	2 4	15 41	0 45	21 24	0 35	13 54	17 17	23 24	23 23	14 18	6 38	1 45			
T 30	2s32	18s46	4s 5	5n34	1n49	12n26	0n40	23n38	0n28	18s10	1s 5	11s28	2s 4	15s41	0s45	21n24	0s35	13s54	17s17	23s24	23s23	14s20	6n37	1n45			

ASTRODIENST EPHEMERIS for the year 1582
geocentric

OCTOBER 1582 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	0 37 10	7♂21'43	21♂59	21♂43	0♂18	9♂48	12°R21	5°R20	19°R35	20♂13	4°R51	4°R46	5♂10	25♂32	12°R35	F 1
S 2	0 41 7	8°20'58	3♂53	23°18	1°30	10°17	12♂20	5♂17	19♂34	20°14	4°Y50	4♂40	5° 6	25°38	12°Y32	S 2
S 3	0 45 3	9°20'15	15°54	24°55	2°41	10°46	12°18	5°14	19°32	20°15	4°49	4°37	5° 3	25°45	12°29	S 3
M 4	0 49 0	10°19'34	28° 7	26°34	3°53	11°15	12°17	5°10	19°31	20°16	4°48	4°36	5° 0	25°52	12°27	M 4
T 5	0 52 56	11°18'54	10♂37	28°15	5° 5	11°43	12°16	5° 7	19°30	20°16	4°47	4°36	4°57	25°58	12°24	T 5
W 6	0 56 53	12°18'17	23°28	29°57	6°17	12°11	12°16	5° 4	19°29	20°17	4°45	4°36	4°54	26° 5	12°21	W 6
T 7	1 0 49	13°17'41	6♂46	1♂39	7°29	12°39	12°15	5° 1	19°28	20°17	4°44	4°34	4°51	26°12	12°18	T 7
F 8	1 4 46	14°17'06	20°34	3°22	8°41	13° 7	12°15	4°58	19°27	20°18	4°43	4°30	4°47	26°19	12°15	F 8
S 9	1 8 43	15°16'34	4♂51	5° 6	9°53	13°34	12°D15	4°55	19°25	20°18	4°42	4°23	4°44	26°25	12°12	S 9
S 10	1 12 39	16°16'03	19°37	6°50	11° 5	14° 1	12°15	4°52	19°25	20°19	4°41	4°14	4°41	26°32	12°10	S 10
M 11	1 16 36	17°15'34	4°Y44	8°34	12°18	14°28	12°16	4°49	19°24	20°19	4°40	4° 4	4°38	26°39	12° 7	M 11
T 12	1 20 32	18°15'07	20° 3	10°18	13°30	14°54	12°16	4°46	19°23	20°20	4°38	3°53	4°35	26°45	12° 4	T 12
W 13	1 24 29	19°14'43	5♂23	12° 1	14°43	15°20	12°17	4°44	19°22	20°20	4°37	3°43	4°31	26°52	12° 1	W 13
T 14	1 28 25	20°14'20	20°32	13°45	15°55	15°46	12°18	4°41	19°21	20°21	4°36	3°35	4°28	26°59	11°58	T 14
F 15	1 32 22	21°14'00	5♂21	15°27	17° 8	16°11	12°19	4°39	19°20	20°21	4°35	3°30	4°25	27° 5	11°55	F 15
S 16	1 36 18	22°13'42	19°44	17°10	18°21	16°36	12°20	4°37	19°20	20°21	4°34	3°27	4°22	27°12	11°53	S 16
S 17	1 40 15	23°13'26	3♂38	18°52	19°34	17° 1	12°22	4°34	19°19	20°21	4°33	3°D26	4°19	27°19	11°50	S 17
M 18	1 44 12	24°13'12	17° 6	20°34	20°47	17°26	12°24	4°32	19°18	20°22	4°32	3°27	4°16	27°26	11°47	M 18
T 19	1 48 8	25°13'01	0♂9	22°15	22° 0	17°49	12°26	4°30	19°18	20°22	4°31	3°R27	4°12	27°32	11°44	T 19
W 20	1 52 5	26°12'52	12°52	23°56	23°13	18°13	12°28	4°28	19°17	20°22	4°30	3°25	4° 9	27°39	11°42	W 20
T 21	1 56 1	27°12'45	25°17	25°36	24°26	18°36	12°30	4°26	19°17	20°22	4°29	3°22	4° 6	27°46	11°39	T 21
F 22	1 59 58	28°12'41	7♂31	27°15	25°39	18°59	12°33	4°24	19°16	20°22	4°27	3°15	4° 3	27°52	11°36	F 22
S 23	2 3 54	29°12'38	19°35	28°54	26°53	19°21	12°35	4°23	19°16	20°22	4°26	3° 7	4° 0	27°59	11°33	S 23
S 24	2 7 51	0♂12'37	1♂33	0♂33	28° 6	19°43	12°38	4°21	19°16	20°R22	4°25	2°56	3°56	28° 6	11°31	S 24
M 25	2 11 47	1°12'39	13°27	2°11	29°19	20° 5	12°41	4°20	19°15	20°22	4°24	2°43	3°53	28°13	11°28	M 25
T 26	2 15 44	2°12'43	25°19	3°49	0♂33	20°26	12°45	4°18	19°15	20°22	4°23	2°31	3°50	28°19	11°26	T 26
W 27	2 19 41	3°12'48	7♂10	5°26	1°47	20°47	12°48	4°17	19°15	20°22	4°22	2°20	3°47	28°26	11°23	W 27
T 28	2 23 37	4°12'55	19° 2	7° 3	3° 0	21° 7	12°52	4°16	19°15	20°22	4°21	2°10	3°44	28°33	11°20	T 28
F 29	2 27 34	5°13'05	0♂56	8°39	4°14	21°27	12°56	4°15	19°15	20°22	4°20	2° 3	3°41	28°39	11°18	F 29
S 30	2 31 30	6°13'16	12°55	10°15	5°28	21°46	13° 0	4°14	19°D15	20°22	4°19	1°58	3°37	28°46	11°15	S 30
S 31	2 35 27	7♂13'28	25♂1	11♂50	6♂42	22♂5	13♂4	4♂13	19♂15	20♂21	4°Y18	1♂56	3♂34	28♂53	11°Y13	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	2s56	21s36	3s25	5n 1	1n53	12n 4	0n43	23n38	0n30	18s11	1s 5	11s29	2s 4	15s41	0s45	21n24
S 2	3 19	23 30	2 35	4 25	1 55	11 41	0 46	23 37	0 31	18 11	1 5	11 31	2 3	15 42	0 45	21 23
S 3	3 43	24 21	1 37	3 48	1 56	11 18	0 49	23 36	0 33	18 11	1 5	11 32	2 3	15 42	0 45	21 23
M 4	4 6	24 3	0 34	3 9	1 57	10 55	0 52	23 35	0 34	18 11	1 5	11 33	2 3	15 43	0 45	21 23
T 5	4 29	22 32	0n32	2 29	1 57	10 31	0 55	23 34	0 36	18 11	1 5	11 34	2 3	15 43	0 45	21 23
W 6	4 52	19 50	1 38	1 47	1 56	10 7	0 57	23 33	0 38	18 12	1 5	11 35	2 3	15 43	0 45	21 23
T 7	5 16	16 1	2 41	1 5	1 54	9 43	1 0	23 32	0 39	18 12	1 4	11 36	2 3	15 44	0 45	21 23
F 8	5 39	11 14	3 38	0 22	1 51	9 18	1 3	23 31	0 41	18 12	1 4	11 37	2 3	15 44	0 45	21 23
S 9	6 2	5 41	4 22	0s22	1 49	8 53	1 5	23 30	0 42	18 11	1 4	11 38	2 3	15 44	0 45	21 23
S 10	6 25	0n21	4 51	1 6	1 45	8 28	1 7	23 29	0 44	18 11	1 4	11 39	2 3	15 44	0 45	21 23
M 11	6 48	6 29	5 1	1 51	1 41	8 2	1 10	23 28	0 46	18 11	1 4	11 40	2 3	15 45	0 45	21 23
T 12	7 10	12 19	4 49	2 36	1 37	7 37	1 12	23 27	0 47	18 11	1 4	11 41	2 3	15 45	0 45	21 23
W 13	7 33	17 23	4 17	3 21	1 33	7 11	1 14	23 25	0 49	18 11	1 4	11 42	2 3	15 45	0 45	21 23
T 14	7 56	21 14	3 26	4 5	1 28	6 44	1 16	23 24	0 51	18 10	1 4	11 43	2 2	15 45	0 45	21 22
F 15	8 18	23 35	2 23	4 50	1 22	6 18	1 18	23 23	0 53	18 10	1 4	11 43	2 2	15 46	0 45	21 22
S 16	8 40	24 18	1 12	5 34	1 17	5 51	1 20	23 21	0 54	18 9	1 4	11 44	2 2	15 46	0 45	21 22
S 17	9 3	23 26	0s 1	6 19	1 11	5 24	1 22	23 20	0 56	18 9	1 3	11 45	2 2	15 46	0 44	21 22
M 18	9 25	21 12	1 12	7 2	1 5	4 57	1 24	23 19	0 58	18 8	1 3	11 46	2 2	15 46	0 44	21 22
T 19	9 47	17 56	2 17	7 46	0 59	4 30	1 26	23 17	1 0	18 7	1 3	11 46	2 2	15 46	0 44	21 22
W 20	10 9	13 54	3 13	8 29	0 53	4 2	1 27	23 16	1 1	18 7	1 3	11 47	2 2	15 46	0 44	21 22
T 21	10 30	9 22	3 59	9 12	0 47	3 35	1 29	23 15	1 3	18 6	1 3	11 47	2 2	15 47	0 44	21 22
F 22	10 52	4 32	4 33	9 54	0 40	3 7	1 30	23 13	1 5	18 5	1 3	11 48	2 1	15 47	0 44	21 22
S 23	11 13	0s23	4 55	10 35	0 34	2 39	1 32	23 12	1 7	18 4	1 3	11 49	2 1	15 47	0 44	21 22
S 24	11 34	5 15	5 3	11 16	0 27	2 11	1 33	23 11	1 9	18 3	1 3	11 49	2 1	15 47	0 44	21 22
M 25	11 55	9 53	4 58	11 56	0 20	1 43	1 34	23 9	1 11	18 2	1 2	11 49	2 1	15 47	0 44	21 22
T 26	12 16	14 9	4 40	12 36	0 14	1 14	1 36	23 8	1 13	18 1	1 2	11 50	2 1	15 47	0 44	21 22
W 27	12 37	17 52	4 10	13 15	0 7	0 46	1 37	23 7	1 15	18 0	1 2	11 50	2 1	15 47	0 44	21 22
T 28	12 57	20 51	3 28	13 53	0 0	0 18	1 38	23 6	1 17	17 59	1 2	11 50	2 1	15 47	0 44	21 22
F 29	13 17	22 58	2 38	14 31	0s 6	0s11	1 38	23 5	1 19	17 58	1 2	11 51	2 1	15 47	0 44	21 22
S 30	13 37	24 3	1 40	15 8	0 13	0 39	1 39	23 4	1 21	17 56	1 2	11 51	2 0	15 47	0 44	21 22
S 31	13s57	24s 1	0s37	15s44	0s20	1s 8	1n40	23n 3	1n23	17s55	1s 2	11s51	2s 0	15s47	0s44	21n22

Julian Day Number = 2299146.5, Delta T = 115.25 sec
Ecliptic obliquity = 23°29'38", Nutation = 0°00'16", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°55'02", Lahiri = 18°02'02"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1582
geocentric

DECEMBER 1582 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	4 37 40	8 ³² 32'36	12 ³² 31	28 ³² 7	15 ¹⁵ 12	26 ¹⁵ R51	16 ¹⁶ 40	4 ³² 37	19 ¹⁶ 41	19 ¹⁹ R59	3 ¹⁵ R57	0 ³² 47	1 ³² 56	2 ¹⁵ 21	10 ¹⁰ R14	W 1
T 2	4 41 37	9 ³³ 33'34	25 ²⁵ 45	29 ²⁵ 25	16 ¹⁶ 27	26 ¹⁶ 548	16 ¹⁶ 49	4 ⁴⁰ 19	19 ¹⁹ 43	19 ¹⁹ 58	3 ¹⁵ Y56	0 ⁴⁸ 48	1 ⁵³ 53	2 ²⁷ 27	10 ¹⁰ Y13	T 2
F 3	4 45 33	10 ³⁴ 33'33	9 ³² 18	0 ³⁴ 18	17 ¹⁷ 42	26 ¹⁶ 45	16 ¹⁶ 59	4 ⁴² 19	19 ¹⁹ 45	19 ¹⁹ 56	3 ¹⁵ 56	0 ⁴⁹ R49	1 ⁴⁹ 49	2 ³⁴ 34	10 ¹⁰ 12	F 3
S 4	4 49 30	11 ³⁵ 32'23	23 ¹² 12	1 ⁵⁴ 54	18 ¹⁸ 57	26 ¹⁶ 41	17 ¹⁷ 8	4 ⁴⁵ 19	19 ¹⁹ 46	19 ¹⁹ 55	3 ¹⁵ 56	0 ⁴⁹ 49	1 ⁴⁶ 46	2 ⁴¹ 41	10 ¹⁰ 11	S 4
S 5	4 53 26	12 ³⁶ 32'7	Y ¹² 27	3 ⁴ 4	20 ¹² 12	26 ¹⁶ 36	17 ¹⁷ 18	4 ⁴⁸ 19	19 ¹⁹ 48	19 ¹⁹ 54	3 ¹⁵ 55	0 ⁴⁷ 47	1 ⁴³ 43	2 ⁴⁸ 48	10 ¹⁰ 10	S 5
M 6	4 57 23	13 ³⁷ 32'22	0 ²² 0	4 ¹¹ 11	21 ¹² 27	26 ¹⁶ 31	17 ¹⁷ 28	4 ⁵¹ 19	19 ¹⁹ 50	19 ¹⁹ 53	3 ¹⁵ 55	0 ⁴⁵ 45	1 ⁴⁰ 40	2 ⁵⁴ 54	10 ¹⁰ 9	M 6
T 7	5 1 19	14 ³⁸ 33'6	8 ⁴⁷ 47	5 ¹³ 13	22 ¹² 42	26 ¹⁶ 24	17 ¹⁷ 38	4 ⁵⁴ 19	19 ¹⁹ 52	19 ¹⁹ 51	3 ¹⁵ 55	0 ⁴³ 43	1 ³⁷ 37	3 ¹ 1	10 ¹⁰ 8	T 7
W 8	5 5 16	15 ³⁹ 35'21	4 ³⁷ 37	6 ¹² 12	23 ¹² 57	26 ¹⁶ 17	17 ¹⁷ 48	4 ⁵⁷ 19	19 ¹⁹ 54	19 ¹⁹ 50	3 ¹⁵ 54	0 ⁴¹ 41	1 ³⁴ 34	3 ⁸ 8	10 ¹⁰ 8	W 8
T 9	5 9 12	16 ⁴⁰ 37'6	II ³⁷ 37	7 ⁵ 5	25 ¹² 12	26 ¹⁶ 8	17 ¹⁷ 58	5 ⁰ 0	19 ¹⁹ 56	19 ¹⁹ 49	3 ¹⁵ 54	0 ⁴⁰ 40	1 ³⁰ 30	3 ¹⁴ 14	10 ¹⁰ 7	T 9
F 10	5 13 9	17 ⁴¹ 40'21	2 ³² 32	7 ⁵² 52	26 ¹⁶ 27	25 ¹⁵ 59	18 ¹⁸ 9	5 ³ 3	19 ¹⁹ 58	19 ¹⁹ 47	3 ¹⁵ 54	0 ³⁹ 39	1 ²⁷ 27	3 ²¹ 21	10 ¹⁰ 6	F 10
S 11	5 17 6	18 ⁴² 44'5	5 ⁵⁴ 54	8 ³³ 33	27 ¹² 42	25 ¹⁵ 50	18 ¹⁸ 19	5 ⁶ 6	20 ⁰ 0	19 ¹⁹ 46	3 ¹⁵ 54	0 ³⁹ D39	1 ²⁴ 24	3 ²⁸ 28	10 ¹⁰ 5	S 11
S 12	5 21 2	19 ⁴³ 48'20	2 ² 2	9 ⁵ 5	28 ¹² 57	25 ¹⁵ 39	18 ¹⁸ 30	5 ¹⁰ 10	20 ⁰ 2	19 ¹⁹ 44	3 ¹⁵ 54	0 ³⁹ 39	1 ²¹ 21	3 ³⁵ 35	10 ¹⁰ 5	S 12
M13	5 24 59	20 ⁴⁴ 53'3	Ω ⁴⁷ 47	9 ³⁰ 30	0 ¹³ 13	25 ¹⁵ 27	18 ¹⁸ 40	5 ¹³ 13	20 ⁰ 4	19 ¹⁹ 43	3 ¹⁵ 53	0 ⁴⁰ 40	1 ¹⁸ 18	3 ⁴¹ 41	10 ¹⁰ 4	M13
T 14	5 28 55	21 ⁴⁵ 59'17	5 ⁵⁹ 59	9 ⁴⁵ 45	1 ²⁸ 28	25 ¹⁵ 15	18 ¹⁸ 51	5 ¹⁷ 17	20 ⁰ 6	19 ¹⁹ 42	3 ¹⁵ 53	0 ⁴¹ 41	1 ¹⁴ 14	3 ⁴⁸ 48	10 ¹⁰ 4	T 14
W15	5 32 52	22 ⁴⁷ 06'29	5 ⁵⁹ 59	9 ⁵⁰ 50	2 ⁴³ 43	25 ¹⁵ 2	19 ¹⁹ 2	5 ²⁰ 20	20 ⁰ 8	19 ¹⁹ 40	3 ¹⁵ 53	0 ⁴² 42	1 ¹¹ 11	3 ⁵⁵ 55	10 ¹⁰ 3	W15
T 16	5 36 48	23 ⁴⁸ 13'12	η ³² 32	9 ⁴⁴ 44	3 ⁵⁸ 58	24 ¹⁴ 48	19 ¹⁹ 13	5 ²⁴ 24	20 ⁰ 10	19 ¹⁹ 39	3 ¹⁵ 53	0 ⁴² 42	1 ⁸ 8	4 ¹ 1	10 ¹⁰ 3	T 16
F 17	5 40 45	24 ⁴⁹ 21'24	4 ⁴⁸ 48	9 ²⁶ 26	5 ¹³ 13	24 ¹³ 33	19 ¹⁹ 24	5 ²⁸ 28	20 ⁰ 13	19 ¹⁹ 37	3 ¹⁵ 53	0 ⁴² R43	1 ⁵ 5	4 ⁸ 8	10 ¹⁰ 3	F 17
S 18	5 44 41	25 ⁵⁰ 29'6	Δ ⁵⁰ 50	8 ⁵⁷ 57	6 ²⁹ 29	24 ¹⁴ 18	19 ¹⁹ 35	5 ³² 32	20 ⁰ 15	19 ¹⁹ 36	3 ¹⁵ 53	0 ⁴² 42	1 ² 2	4 ¹⁵ 15	10 ¹⁰ 3	S 18
S 19	5 48 38	26 ⁵¹ 39'18	4 ⁴⁴ 44	8 ¹⁶ 16	7 ⁴⁴ 44	24 ¹⁴ 1	19 ¹⁹ 47	5 ³⁶ 36	20 ⁰ 17	19 ¹⁹ 34	3 ¹⁵ D53	0 ⁴² 42	0 ⁵⁹ 59	4 ²¹ 21	10 ¹⁰ 2	S 19
M20	5 52 35	27 ⁵² 49'0	μ ³⁵ 35	7 ²⁴ 24	8 ⁵⁹ 59	23 ¹⁴ 44	19 ¹⁹ 58	5 ⁴⁰ 40	20 ⁰ 20	19 ¹⁹ 33	3 ¹⁵ 53	0 ⁴² 42	0 ⁵⁵ 55	4 ²⁸ 28	10 ¹⁰ 2	M20
T 21	5 56 31	28 ⁵³ 59'12	6 ²⁶ 26	10 ¹⁴ 14	23 ¹² 27	20 ¹⁰ 10	5 ⁴⁴ 44	5 ²⁰ 20	20 ⁰ 22	19 ¹⁹ 31	3 ¹⁵ 53	0 ⁴¹ 41	0 ⁵² 52	4 ³⁵ 35	10 ¹⁰ D 2	T 21
W22	6 0 28	29 ⁵⁵ 10'24	2 ²¹ 21	5 ¹² 12	11 ³⁰ 30	23 ¹² 8	20 ⁰ 21	5 ⁴⁹ 49	20 ⁰ 25	19 ¹⁹ 29	3 ¹⁵ 53	0 ⁴¹ 41	0 ⁴⁹ 49	4 ⁴² 42	10 ¹⁰ 2	W22
T 23	6 4 24	0 ⁵⁶ 22'2	Δ ²³ 23	3 ⁵⁵ 55	12 ⁴⁵ 45	22 ¹² 49	20 ⁰ 33	5 ⁵³ 53	20 ⁰ 27	19 ¹⁹ 28	3 ¹⁵ 53	0 ⁴¹ D41	0 ⁴⁶ 46	4 ⁴⁸ 48	10 ¹⁰ 2	T 23
F 24	6 8 21	1 ⁵⁷ 33'18	6 ²³ 23	2 ³⁴ 34	14 ⁰ 0	22 ¹² 30	20 ⁰ 45	5 ⁵⁷ 57	20 ⁰ 30	19 ¹⁹ 26	3 ¹⁵ 53	0 ⁴¹ 41	0 ⁴³ 43	4 ⁵⁵ 55	10 ¹⁰ 2	F 24
S 25	6 12 17	2 ⁵⁸ 45'0	3 ⁵⁹ 59	1 ¹² 12	15 ¹⁶ 16	22 ¹² 9	20 ⁰ 57	6 ² 2	20 ⁰ 32	19 ¹⁹ 25	3 ¹⁵ 54	0 ⁴¹ R41	0 ⁴⁰ 40	5 ² 2	10 ¹⁰ 3	S 25
S 26	6 16 14	3 ⁵⁹ 57'13	3 ³⁵ 35	29 ¹⁵ 52	16 ¹⁶ 31	21 ¹⁴ 49	21 ⁰ 9	6 ⁷ 7	20 ⁰ 35	19 ¹⁹ 23	3 ¹⁵ 54	0 ⁴¹ 41	0 ³⁶ 36	5 ⁸ 8	10 ¹⁰ 3	S 26
M27	6 20 11	5 ¹ 09'26	2 ²⁵ 25	28 ¹⁶ 36	17 ¹⁷ 46	21 ¹² 27	21 ⁰ 21	6 ¹¹ 11	20 ⁰ 38	19 ¹⁹ 21	3 ¹⁵ 54	0 ⁴¹ 41	0 ³³ 33	5 ¹⁵ 15	10 ¹⁰ 3	M27
T 28	6 24 7	6 ² 21'9	Δ ²⁸ 28	27 ¹⁶ 26	19 ¹⁹ 1	21 ⁰ 6	21 ⁰ 33	6 ¹⁶ 16	20 ⁰ 40	19 ¹⁹ 20	3 ¹⁵ 54	0 ⁴⁰ 40	0 ³⁰ 30	5 ²² 22	10 ¹⁰ 4	T 28
W29	6 28 4	7 ³ 33'22	4 ²⁴ 24	26 ¹² 23	20 ¹⁷ 17	20 ⁰ 43	21 ⁰ 45	6 ²¹ 21	20 ⁰ 43	19 ¹⁹ 18	3 ¹⁵ 54	0 ⁴⁰ 40	0 ²⁷ 27	5 ²⁸ 28	10 ¹⁰ 4	W29
T 30	6 32 0	8 ⁴ 44'6	Δ ¹³ 13	25 ¹³ 30	21 ¹³ 32	20 ⁰ 21	21 ⁰ 58	6 ²⁶ 26	20 ⁰ 46	19 ¹⁹ 16	3 ¹⁵ 55	0 ³⁹ 39	0 ²⁴ 24	5 ³⁵ 35	10 ¹⁰ 4	T 30
F 31	6 35 57	9 ⁵ 55'19	Δ ⁵⁵ 55	24 ¹⁷ 47	22 ¹⁷ 47	19 ¹⁹ 58	22 ¹⁶ 10	6 ³¹ 31	20 ⁰ 49	19 ¹⁹ 15	3 ¹⁵ Y55	0 ³⁸ 38	0 ²⁰ 20	5 ⁴² 42	10 ¹⁰ Y 5	F 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
W 1	21s47	13s43	3n30	25s50	2s21	15s 5	1n25	23n27	2n40	16s48	0s59	11s38	1s56	15s38	0s43	21n25	0s35	14s 5	17s 5	23s29	23s29	16s29	5n33	1n38					
T 2	21 56	8 54	4 19	25 48	2 19	15 28	1 23	23 30	2 43	16 45	0 58	11 37	1 56	15 37	0 43	21 25	0 35	14 5	17 5	23 29	23 29	16 31	5 33	1 37					
F 3	22 5	3 33	4 54	25 46	2 16	15 51	1 21	23 34	2 46	16 42	0 58	11 36	1 55	15 36	0 43	21 26	0 35	14 5	17 5	23 29	23 29	16 33	5 32	1 37					
S 4	22 14	2n 5	5 13	25 41	2 12	16 13	1 20	23 37	2 48	16 39	0 58	11 35	1 55	15 36	0 43	21 26	0 35	14 4	17 4	23 29	23 29	16 34	5 32	1 37					
S 5	22 22	7 46	5 14	25 36	2 8	16 35	1 18	23 41	2 51	16 36	0 58	11 34	1 55	15 35	0 43	21 26	0 35	14 4	17 4	23 29	23 29	16 36	5 31	1 37					
M 6	22 29	13 8	4 54	25 28	2 3	16 56	1 16	23 45	2 54	16 33	0 58	11 32	1 55	15 35	0 43	21 26	0 35	14 4	17 4	23 29	23 29	16 38	5 31	1 37					
T 7	22 36	17 50	4 16	25 20	1 57	17 17	1 14	23 49	2 57	16 30	0 58	11 31	1 55	15 34	0 43	21 26	0 35	14 4	17 3	23 29	23 29	16 40	5 30	1 37					
W 8	22 43	21 26	3 19	25 10	1 49	17 38	1 12	23 53	3 0	16 27	0 58	11 30	1 55	15 33	0 43	21 27	0 35	14 4	17 3	23 29	23 29	16 42	5 30	1 36					
T 9	22 49	23 35	2 9	24 59	1 41	17 58	1 11	23 57	3 2	16 24	0 58	11 29	1 55	15 33	0 43	21 27	0 35	14 3	17 3	23 30	23 29	16 44	5 29	1 36					
F 10	22 55	24 4	0 51	24 47	1 31	18 18	1 9	24 2	3 5	16 20	0 58	11 27	1 54	15 32	0 43	21 27	0 35	14 3	17 2	23 30	23 29	16 46	5 29	1 36					
S 11	23 1	22 53	0s29	24 34	1 21	18 37	1 7	24 6	3 8	16 17	0 58	11 26	1 54	15 31	0 43	21 27	0 35	14 3	17 2	23 30	23 29	16 48	5 28	1 36					
S 12	23 6	20 15	1 45	24 19	1 9	18 55	1 4	24 11	3 11	16 14	0 58	11 25	1 54	15 31	0 43	21 27	0 35	14 3	17 2	23 30	23 29	16 50	5 28	1 36					
M13	23 10	16 32	2 54	24 4	0 55	19 13	1 2	24 16	3 13	16 10	0 58	11 23	1 54	15 30	0 43	21 28	0 35	14 2	17 1	23 30	23 29	16 51	5 28	1 36					
T 14	23 14	12 6	3 50	23 49	0 41	19 31	1 0	24 21	3 16	16 7	0 57	11 22	1 54	15 29	0 43	21 28	0 35	14 2	17 1	23 29	23 29	16 53	5 27	1 35					
W15	23 18	7 14	4 33	23 33	0 25	19 48	0 58	24 26	3 19	16 4	0 57	11 20	1 54	15 29	0 43	21 28	0 35	14 2	17 1	23 29	23 29	16 55	5 27	1 35					
T 16	23 21	2 13	5 2	23 16	0 8	20 5	0 56	24 31	3 21	16 0	0 57	11 19	1 54	15 28	0 43	21 28	0 35	14 2	17 0	23 29	23 29	16 57	5 27	1 35					
F 17	23 24	2s45	5 16	22 59	0n10	20 20	0 54	24 36	3 24	15 56	0 57	11 17	1 53	15 27	0 43	21 28	0 35	14 1	17 0	23 29	23 29	16 59	5 27	1 35					
S 18	23 26	7 33	5 16	22 42	0 29	20 36	0 51	24 42	3 27	15 53	0 57	11 16	1 53	15 26	0 42	21 29	0 35	14 1	17 0	23 29	23 29	17 1	5 26	1 35					
S 19	23 27	12 0	5 2	22 25	0 49	20 51	0 49	24 47	3 29	15 49	0 57	11 14	1 53	15 26	0 42	21 29	0 35	14 1	16 59	23 29	23 29	17 3	5 26	1 35					
M20	23 29	16 0	4 35	22 9	1 9	21 5	0 47	24 53	3 32	15 46	0 57	11 12	1 53	15 25	0 42	21 29	0 35	14 0	16 59	23 29	23 29	17 4	5 26	1 34					
T 21	23 29	19 22	3 57	21 52	1 28	21 18	0 44	24 58	3 34	15 42	0 57	11 11	1 53	15 24	0 42	21 29	0 35	14 0	16 58	23 29	23 29	17 6	5 26	1 34					
W22	23 30	21 57	3 8	21 36	1 48	21 31	0 42	25 4	3 37	15 38	0 57	11 9	1 53	15 23	0 42	21 30	0 35	14 0	16 58	23 29	23 29	17 8	5 26	1 34					
T 23	23 29	23 34	2 11	21 21	2 6	21 43	0 40	25 9	3 39	15 34	0 57	11 7	1 53	15 22	0 42	21 30	0 35	13 59	16 58	23 29	23 29	17 10	5 25	1 34					
F 24	23 29	24 7	1 7	21 6	2 22	21 55	0 37	25 15	3 41	15 30	0 57	11 5	1 53	15 22	0 42	21 30	0 35	13 59	16 57	23 29	23 29	17 12	5 25	1 34					
S 25	23 28	23 28	0n 2	20 53	2 37	22 6	0 35	25 20	3 44	15 27	0 57	11 4	1 53	15 21	0 42	21 30	0 35	13 58	16 57	23 29	23 30	17 14	5 25	1 34					
S 26	23 26	21 37	1 11	20 40	2 49	22 16	0 32	25 26	3 46	15 23	0 57	11 2	1 52	15 20	0 42	21 30	0 35	13 58	16 57	23 29	23 30	17 15	5 25	1 33					
M27	23 24	18 39	2 18	20 30	2 59	22 26	0 30	25 32	3 48	15 19	0 57	11 0	1 52	15 19	0 42	21 31	0 35	13 58	16 56	23 29	23 30	17 17	5 25	1 33					
T 28	23 21	14 44	3 19	20 22	3 6	22 35	0 27	25 37	3 50	15 15	0 57	10 58	1 52	15 18	0 42	21 31	0 35	13 57	16 56	23 29	23 30	17 19	5 25	1 33					
W29	23 18	10 1	4 10	20 15	3 11	22 43	0 25	25 42	3 52	15 11	0 57	10 56	1 52	15 17	0 42	21 31	0 35	13 57	16 55	23 30	23 30	17 21	5 25	1 33					
T 30	23 15	4 46	4 49	20 11	3 14	22 51	0 22	25 48	3 53	15 7	0 57	10 54	1 52	15 16	0 42	21 31	0 35	13 56	16 55	23 30	23 30	17 23	5 25	1 33					
F 31	23s11	0n46	5n11	20s 9	3n15	22s58	0n20	25n53	3n55	15s 3	0s56	10s52	1s52	15s15	0s42	21n32	0s35	13s56	16s55	23s30	23s30	17s24	5n25	1n33					