



Astrodienst Ephemeris Tables for the year 1598

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 D5EPH

ASTRODIENST EPHEMERIS for the year 1598
geocentric

JANUARY 1598 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 41 19	10 ³ 28'34	13 ¹ 5 7	24 ⁷ 43	19 ¹ 41	29 ² R25	7 ² R49	3 ¹ 549	19 ¹ 7 7	23 ² R13	19 ¹ R18	8 ² R45	10 ¹ 8 9	16 ² 512	7 ² R51	T 1
F 2	6 45 16	11 ² 29'45	26 ¹ 17	26 ² 12	20 ² 53	29 ² II 4	7 ² II43	3 ² 50	19 ² 7	23 ² 12	19 ² 18	8 ² 44	10 ² 6	16 ² 19	7 ² 546	F 2
S 3	6 49 12	12 ² 30'55	9 ² 156	27 ² 41	22 ² 5	28 ² 43	7 ² 38	3 ² 51	19 ² 7	23 ² 11	19 ² D18	8 ² 41	10 ² 3	16 ² 25	7 ² 42	S 3
S 4	6 53 9	13 ² 32'06	24 ² 5	29 ² 11	23 ² 17	28 ² 22	7 ² 33	3 ² 52	19 ² 7	23 ² 10	19 ² 18	8 ² 35	9 ² 59	16 ² 32	7 ² 38	S 4
M 5	6 57 6	14 ² 33'17	8 ² 42	0 ² 342	24 ² 29	28 ² 2	7 ² 27	3 ² 53	19 ² 8	23 ² 9	19 ² 18	8 ² 28	9 ² 56	16 ² 39	7 ² 34	M 5
T 6	7 1 2	15 ² 34'28	23 ² 43	2 ² 13	25 ² 41	27 ² 43	7 ² 22	3 ² 54	19 ² 8	23 ² 7	19 ² 18	8 ² 19	9 ² 53	16 ² 45	7 ² 30	T 6
W 7	7 4 59	16 ² 35'38	8 ² 58	3 ² 44	26 ² 53	27 ² 24	7 ² 18	3 ² 55	19 ² 9	23 ² 6	19 ² 18	8 ² 11	9 ² 50	16 ² 52	7 ² 25	W 7
T 8	7 8 55	17 ² 36'48	24 ² 18	5 ² 16	28 ² 5	27 ² 6	7 ² 13	3 ² 55	19 ² 9	23 ² 5	19 ² 18	8 ² 4	9 ² 47	16 ² 59	7 ² 21	T 8
F 9	7 12 52	18 ² 37'58	9 ² 31	6 ² 49	29 ² 16	26 ² 48	7 ² 9	3 ² 56	19 ² 10	23 ² 4	19 ² 18	7 ² 58	9 ² 44	17 ² 6	7 ² 17	F 9
S 10	7 16 48	19 ² 39'07	24 ² 26	8 ² 22	0 ² 828	26 ² 32	7 ² 4	3 ² 56	19 ² 11	23 ² 2	19 ² 18	7 ² 55	9 ² 40	17 ² 12	7 ² 13	S 10
S 11	7 20 45	20 ² 40'15	8 ² 58	9 ² 56	1 ² 39	26 ² 16	7 ² 0	3 ² 56	19 ² 11	23 ² 1	19 ² 19	7 ² D55	9 ² 37	17 ² 19	7 ² 9	S 11
M 12	7 24 41	21 ² 41'22	23 ² 2	11 ² 30	2 ² 50	26 ² 0	6 ² 56	3 ² 57	19 ² 12	23 ² 0	19 ² 19	7 ² 55	9 ² 34	17 ² 26	7 ² 5	M 12
T 13	7 28 38	22 ² 42'29	6 ² 39	13 ² 4	4 ² 2	25 ² 46	6 ² 53	3 ² R57	19 ² 13	22 ² 58	19 ² 19	7 ² 57	9 ² 31	17 ² 32	7 ² 1	T 13
W 14	7 32 35	23 ² 43'34	19 ² 50	14 ² 39	5 ² 13	25 ² 32	6 ² 49	3 ² 57	19 ² 14	22 ² 57	19 ² 19	7 ² R58	9 ² 28	17 ² 39	6 ² 57	W 14
T 15	7 36 31	24 ² 44'39	2 ² 38	16 ² 15	6 ² 24	25 ² 19	6 ² 46	3 ² 56	19 ² 15	22 ² 55	19 ² 19	7 ² 57	9 ² 24	17 ² 46	6 ² 53	T 15
F 16	7 40 28	25 ² 45'42	15 ² 8	17 ² 51	7 ² 34	25 ² 7	6 ² 43	3 ² 56	19 ² 15	22 ² 54	19 ² 20	7 ² 55	9 ² 21	17 ² 52	6 ² 49	F 16
S 17	7 44 24	26 ² 46'45	27 ² 24	19 ² 28	8 ² 45	24 ² 56	6 ² 40	3 ² 56	19 ² 16	22 ² 52	19 ² 20	7 ² 51	9 ² 18	17 ² 59	6 ² 45	S 17
S 18	7 48 21	27 ² 47'47	9 ² II29	21 ² 5	9 ² 56	24 ² 45	6 ² 37	3 ² 55	19 ² 18	22 ² 51	19 ² 20	7 ² 45	9 ² 15	18 ² 6	6 ² 41	S 18
M 19	7 52 17	28 ² 48'48	21 ² 26	22 ² 43	11 ² 6	24 ² 35	6 ² 35	3 ² 55	19 ² 19	22 ² 49	19 ² 21	7 ² 38	9 ² 12	18 ² 12	6 ² 38	M 19
T 20	7 56 14	29 ² 49'47	3 ² 520	24 ² 22	12 ² 17	24 ² 26	6 ² 32	3 ² 54	19 ² 20	22 ² 48	19 ² 21	7 ² 31	9 ² 9	18 ² 19	6 ² 34	T 20
W 21	8 0 10	0 ² 50'46	15 ² 11	26 ² 1	13 ² 27	24 ² 18	6 ² 30	3 ² 53	19 ² 21	22 ² 46	19 ² 21	7 ² 24	9 ² 5	18 ² 26	6 ² 30	W 21
T 22	8 4 7	1 ² 51'44	27 ² 1	27 ² 41	14 ² 37	24 ² 11	6 ² 28	3 ² 52	19 ² 22	22 ² 45	19 ² 22	7 ² 17	9 ² 2	18 ² 33	6 ² 26	T 22
F 23	8 8 4	2 ² 52'41	8 ² II53	29 ² 22	15 ² 47	24 ² 4	6 ² 26	3 ² 51	19 ² 23	22 ² 43	19 ² 22	7 ² 12	8 ² 59	18 ² 39	6 ² 23	F 23
S 24	8 12 0	3 ² 53'36	20 ² 49	1 ² 3	16 ² 57	23 ² 59	6 ² 25	3 ² 50	19 ² 25	22 ² 42	19 ² 23	7 ² 9	8 ² 56	18 ² 46	6 ² 19	S 24
S 25	8 15 57	4 ² 54'31	2 ² II49	2 ² 45	18 ² 6	23 ² 54	6 ² 24	3 ² 49	19 ² 26	22 ² 40	19 ² 23	7 ² D 8	8 ² 53	18 ² 53	6 ² 16	S 25
M 26	8 19 53	5 ² 55'25	14 ² 57	4 ² 27	19 ² 16	23 ² 50	6 ² 22	3 ² 48	19 ² 28	22 ² 39	19 ² 24	7 ² 8	8 ² 50	18 ² 59	6 ² 12	M 26
T 27	8 23 50	6 ² 56'18	27 ² 14	6 ² 11	20 ² 25	23 ² 46	6 ² 22	3 ² 46	19 ² 29	22 ² 37	19 ² 24	7 ² 9	8 ² 46	19 ² 6	6 ² 9	T 27
W 28	8 27 46	7 ² 57'10	9 ² 45	7 ² 55	21 ² 34	23 ² 44	6 ² 21	3 ² 45	19 ² 31	22 ² 35	19 ² 25	7 ² 11	8 ² 43	19 ² 13	6 ² 5	W 28
T 29	8 31 43	8 ² 58'01	22 ² 33	9 ² 39	22 ² 43	23 ² 42	6 ² 20	3 ² 43	19 ² 32	22 ² 34	19 ² 25	7 ² 13	8 ² 40	19 ² 19	6 ² 2	T 29
F 30	8 35 39	9 ² 58'51	5 ² II41	11 ² 25	23 ² 52	23 ² 41	6 ² 20	3 ² 41	19 ² 34	22 ² 32	19 ² 26	7 ² R13	8 ² 37	19 ² 26	5 ² 59	F 30
S 31	8 39 36	10 ² 59'41	19 ² II12	13 ² 11	25 ² 1	23 ² D41	6 ² D20	3 ² 39	19 ² 36	22 ² 31	19 ² 27	7 ² 13	8 ² 34	19 ² 33	5 ² 56	S 31

Delta T = 91.52 sec

Greg. Calendar

FEBRUARY 1598 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 43 33	12 ² 0'29	3 ² 7	14 ² 58	26 ² 9	23 ² II41	6 ² II20	3 ² R37	19 ² Y37	22 ² R29	19 ² Y27	7 ² R12	8 ² 30	19 ² 39	5 ² R53	S 1
M 2	8 47 29	13 ² 1'17	17 ² 28	16 ² 45	27 ² 17	23 ² 42	6 ² 20	3 ² 35	19 ² 39	22 ² Ω27	19 ² 28	7 ² 9	8 ² 27	19 ² 46	5 ² 30	M 2
T 3	8 51 26	14 ² 2'04	2 ² 310	18 ² 33	28 ² 26	23 ² 44	6 ² 21	3 ² 33	19 ² 41	22 ² 26	19 ² 29	7 ² 6	8 ² 24	19 ² 53	5 ² 47	T 3
W 4	8 55 22	15 ² 2'49	17 ² 9	20 ² 22	29 ² 33	23 ² 47	6 ² 22	3 ² 31	19 ² 43	22 ² 24	19 ² 29	7 ² 3	8 ² 21	20 ² 0	5 ² 44	W 4
T 5	8 59 19	16 ² 3'34	2 ² 117	22 ² 11	0 ² Y41	23 ² 50	6 ² 22	3 ² 29	19 ² 45	22 ² 22	19 ² 30	7 ² 0	8 ² 18	20 ² 6	5 ² 41	T 5
F 6	9 3 15	17 ² 4'17	17 ² 23	24 ² 0	1 ² 49	23 ² 54	6 ² 24	3 ² 26	19 ² 47	22 ² 21	19 ² 31	6 ² 58	8 ² 15	20 ² 13	5 ² 38	F 6
S 7	9 7 12	18 ² 4'58	2 ² 20	25 ² 50	2 ² 56	23 ² 59	6 ² 25	3 ² 24	19 ² 49	22 ² 19	19 ² 31	6 ² D58	8 ² 11	20 ² 20	5 ² 36	S 7
S 8	9 11 9	19 ² 5'38	16 ² 58	27 ² 40	4 ² 3	24 ² 5	6 ² 26	3 ² 21	19 ² 51	22 ² 17	19 ² 32	6 ² 58	8 ² 8	20 ² 26	5 ² 33	S 8
M 9	9 15 5	20 ² 6'16	1 ² Y13	29 ² 29	5 ² 10	24 ² 11	6 ² 28	3 ² 18	19 ² 53	22 ² 16	19 ² 33	6 ² 59	8 ² 5	20 ² 33	5 ² 30	M 9
T 10	9 19 2	21 ² 6'53	15 ² 0	1 ² 19	6 ² 17	24 ² 18	6 ² 30	3 ² 16	19 ² 55	22 ² 14	19 ² 34	7 ² 0	8 ² 2	20 ² 40	5 ² 28	T 10
W 11	9 22 58	22 ² 7'28	28 ² 21	3 ² 8	7 ² 23	24 ² 25	6 ² 32	3 ² 13	19 ² 57	22 ² 12	19 ² 35	7 ² 1	7 ² 59	20 ² 46	5 ² 26	W 11
T 12	9 26 55	23 ² 8'01	11 ² 17	4 ² 57	8 ² 29	24 ² 33	6 ² 34	3 ² 10	19 ² 59	22 ² 11	19 ² 35	7 ² 2	7 ² 55	20 ² 53	5 ² 23	T 12
F 13	9 30 51	24 ² 8'32	23 ² 52	6 ² 45	9 ² 35	24 ² 42	6 ² 37	3 ² 7	20 ² 1	22 ² 9	19 ² 36	7 ² R 2	7 ² 52	21 ² 0	5 ² 21	F 13
S 14	9 34 48	25 ² 9'01	6 ² II 8	8 ² 31	10 ² 41	24 ² 51	6 ² 40	3 ² 4	20 ² 4	22 ² 7	19 ² 37	7 ² 2	7 ² 49	21 ² 6	5 ² 19	S 14
S 15	9 38 44	26 ² 9'29	18 ² 12	10 ² 16	11 ² 46	25 ² 1	6 ² 43	3 ² 0	20 ² 6	22 ² 5	19 ² 38	7 ² 1	7 ² 46	21 ² 13	5 ² 17	S 15
M 16	9 42 41	27 ² 9'55	0 ² 5 7	11 ² 58	12 ² 52	25 ² 12	6 ² 46	2 ² 57	20 ² 8	22 ² 4	19 ² 39	7 ² 0	7 ² 43	21 ² 20	5 ² 15	M 16
T 17	9 46 38	28 ² 10'18	11 ² 58	13 ² 38	13 ² 56	25 ² 23	6 ² 49	2 ² 54	20 ² 11	22 ² 2	19 ² 40	6 ² 59	7 ² 40	21 ² 26	5 ² 13	T 17
W 18	9 50 34	29 ² 10'40	23 ² 47	15 ² 15	15 ² 1	25 ² 35	6 ² 52	2 ² 50	20 ² 13	22 ² 0	19 ² 41	6 ² 58	7 ² 36	21 ² 33	5 ² 11	W 18
T 19	9 54 31	0 ² 11'00	5 ² Ω39	16 ² 48	16 ² 5	25 ² 47	6 ² 56	2 ² 47	20 ² 16	21 ² 59	19 ² 42	6 ² 57	7 ² 33	21 ² 40	5 ² 10	T 19
F 20	9 58 27	1 ² 11'19	17 ² 36	18 ² 17	17 ² 9	25 ² 59	7 ² 0	2 ² 43	20 ² 18	21 ² 57	19 ² 43	6 ² 56	7 ² 30	21 ² 47	5 ² 8	F 20
S 21	10 2 24	2 ² 11'35	29 ² 39	19 ² 41	18 ² 13	26 ² 13	7 ² 4	2 ² 40	20 ² 21	21 ² 55	19 ² 44	6 ² 56	7 ² 27	21 ² 53	5 ² 6	S 21
S 22	10 6 20	3 ² 11'49	11 ² 51	21 ² 0	19 ² 16	26 ² 26	7 ² 8	2 ² 36	20 ² 23	21 ² 54	19 ² 45	6 ² D56	7 ² 24	22 ² 0	5 ² 5	S 22
M 23	10 10 17	4 ² 12'02	24 ² 14	22 ² 12	20 ² 19	26 ² 41	7 ² 12	2 ² 32	20 ² 26	21 ² 52	19 ² 46	6 ² 56	7 ² 21	22 ² 7	5 ² 4	M 23
T 24	10 14 13	5 ² 12'13	6 ² Ω48	23 ² 18	21 ² 22	26 ² 55	7 ² 17	2 ² 28	20 ² 28	21 ² 51	19 ² 47	6 ² 56	7 ² 17	22 ² 13	5 ² 2	T 24
W 25	10 18 10	6 ² 12'22	19 ² 35	24 ² 17	22 ² 24	27 ² 10	7 ² 22	2 ² 24	20 ² 31	21 ² 49	19 ² 48	6 ² 56	7 ² 14	22 ² 20	5 ² 1	W 25
T 26	10 22 6	7 ² 12'30	2 ² 30	25 ² 7	23 ² 26	27 ² 26	7 ² 26	2 ² 20	20 ² 34	21 ² 47	19 ² 49	6 ² R56	7 ² 11	22 ² 27	5 ² 0	T 26
F 27	10 26 3	8 ² 12'36	15 ² 52	25 ² 50	24 ² 27	27 ² 42	7 ² 32	2 ² 16	20 ² 36	21 ² 46	19 ² 50	6 ² 56	7 ² 8	22 ² 33	4 ² 59	F 27
S 28	10 30 0	9 ² 12'41	29 ² 25	26 ² 24	25 ² Y28	27 ² II59	7 ² II37	2 ² Ω12	20 ² Y39	21 ² Ω44	19 ² Y51	6 ² 56	7 ² 5	22 ² 340	4 ² 38	S 28

ASTRODIENST EPHEMERIS for the year 1598

geocentric

MARCH 1598 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 33 56	10°12'44"	13°15'	26°49'	26°29'	28°16'	7°42'	2°R 8	20°42'	21°R43	19°52'	6°D56	7°H 1	22°47'	4°R57	S 1
M 2	10 37 53	11°12'46"	27°21'	27° 5	27°29'	28°33'	7°48'	2°4 4	20°45'	21°R41	19°53'	6°H56	6°58'	22°53'	4°R57	M 2
T 3	10 41 49	12°12'46"	11°34'	27°R12	28°29'	28°51'	7°53'	2° 0	20°48'	21°39'	19°54'	6°56'	6°55'	23° 0	4°56'	T 3
W 4	10 45 46	13°12'44"	26°18'	27°10'	29°29'	29° 9	7°59'	1°55'	20°50'	21°38'	19°56'	6°57'	6°52'	23° 7	4°55'	W 4
T 5	10 49 42	14°12'41"	11°30'	26°59'	0°28'	29°27'	8° 5	1°51'	20°53'	21°36'	19°57'	6°57'	6°49'	23°13	4°55'	T 5
F 6	10 53 39	15°12'35"	25°45'	26°40'	1°26'	29°46'	8°12'	1°47'	20°56'	21°35'	19°58'	6°58'	6°46'	23°20	4°55'	F 6
S 7	10 57 35	16°12'28"	10°H24	26°13'	2°24'	0°26'	8°18'	1°42'	20°59'	21°33'	19°59'	6°R58	6°42'	23°27	4°54'	S 7
S 8	11 1 32	17°12'19"	24°52'	25°39'	3°22'	0°25'	8°25'	1°38'	21° 2	21°32'	20° 0	6°58'	6°39'	23°33	4°54'	S 8
M 9	11 5 29	18°12'08"	9°Y 3	24°58'	4°19'	0°45'	8°31'	1°33'	21° 5	21°30'	20° 2	6°57'	6°36'	23°40	4°D54	M 9
T 10	11 9 25	19°11'54"	22°52'	24°12'	5°15'	1° 6	8°38'	1°29'	21° 8	21°29'	20° 3	6°55'	6°33'	23°47	4°54'	T 10
W11	11 13 22	20°11'39"	6°B17	23°22'	6°11'	1°27'	8°45'	1°24'	21°11'	21°27'	20° 4	6°53'	6°30'	23°53	4°54'	W11
T 12	11 17 18	21°11'21"	19°19'	22°29'	7° 7	1°48'	8°52'	1°20'	21°14'	21°26'	20° 5	6°52'	6°27'	24° 0	4°54'	T 12
F 13	11 21 15	22°11'01"	1°H58	21°34'	8° 1	2° 9	9° 0	1°15'	21°17'	21°25'	20° 7	6°50'	6°23'	24° 7	4°55'	F 13
S 14	11 25 11	23°10'39"	14°19'	20°38'	8°55'	2°31'	9° 7	1°11'	21°21'	21°23'	20° 8	6°49'	6°20'	24°14	4°55'	S 14
S 15	11 29 8	24°10'15"	26°25'	19°43'	9°49'	2°53'	9°15'	1° 6	21°24'	21°22'	20° 9	6°D49	6°17'	24°20	4°56'	S 15
M16	11 33 4	25° 9'48"	8°B21	18°50'	10°42'	3°15'	9°22'	1° 1	21°27'	21°21'	20°10'	6°49'	6°14'	24°27	4°56'	M16
T 17	11 37 1	26° 9'19"	20°11'	17°59'	11°34'	3°38'	9°30'	0°57'	21°30'	21°19'	20°12'	6°51'	6°11'	24°34	4°57'	T 17
W18	11 40 58	27° 8'48"	2°Q 1	17°12'	12°25'	4° 1	9°38'	0°52'	21°33'	21°18'	20°13'	6°52'	6° 7	24°40	4°58'	W18
T 19	11 44 54	28° 8'14"	13°55'	16°29'	13°16'	4°24'	9°46'	0°47'	21°36'	21°17'	20°14'	6°54'	6° 4	24°47	4°59'	T 19
F 20	11 48 51	29° 7'38"	25°56'	15°50'	14° 6	4°48'	9°55'	0°43'	21°40'	21°15'	20°16'	6°55'	6° 1	24°54	5° 0	F 20
S 21	11 52 47	0°Y 7'00"	8°H 8	15°17'	14°55'	5°12'	10° 3	0°38'	21°43'	21°14'	20°17'	6°R56	5°58'	25° 0	5° 1	S 21
S 22	11 56 44	1° 6'20"	20°33'	14°50'	15°43'	5°36'	10°11'	0°33'	21°46'	21°13'	20°18'	6°55'	5°55'	25° 7	5° 2	S 22
M23	12 0 40	2° 5'38"	3°B13	14°28'	16°31'	6° 0	10°20'	0°28'	21°50'	21°12'	20°20'	6°53'	5°52'	25°14	5° 3	M23
T 24	12 4 37	3° 4'53"	16° 8	14°12'	17°17'	6°25'	10°29'	0°24'	21°53'	21°11'	20°21'	6°50'	5°48'	25°20	5° 4	T 24
W25	12 8 33	4° 4'06"	29°18'	14° 2	18° 3	6°49'	10°38'	0°19'	21°56'	21° 9	20°22'	6°46'	5°45'	25°27	5° 6	W25
T 26	12 12 30	5° 3'18"	12°H42	13°D58	18°47'	7°14'	10°47'	0°14'	21°59'	21° 8	20°24'	6°41'	5°42'	25°34	5° 7	T 26
F 27	12 16 27	6° 2'28"	26°19'	13°59'	19°31'	7°40'	10°56'	0°10'	22° 3	21° 7	20°25'	6°37'	5°39'	25°40	5° 9	F 27
S 28	12 20 23	7° 1'36"	10°H 6	14° 6	20°13'	8° 5	11° 5	0° 5	22° 6	21° 6	20°26'	6°34'	5°36'	25°47	5°11	S 28
S 29	12 24 20	8° 0'42"	24° 3	14°18'	20°55'	8°31'	11°15'	0° 0	22°10'	21° 5	20°28'	6°31'	5°33'	25°54	5°12	S 29
M30	12 28 16	8°59'47"	8°B 7	14°35'	21°35'	8°57'	11°24'	29°H56	22°13'	21° 4	20°29'	6°D31	5°29'	26° 0	5°14	M30
T 31	12 32 13	9°Y58'50"	22°B17	14°H57	22°B15	9°B23	11°H34	29°H51	22°Y16	21°Q 3	20°Y30	6°H31	5°H26	26°B 7	5°B16	T 31

Delta T = 91.30 sec

Greg. Calendar

APRIL 1598 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	12 36 9	10°Y57'51"	6°B32	15°H24	22°B53	9°B49	11°H43	29°R47	22°Y20	21°R 2	20°Y32	6°H32	5°H23	26°B14	5°B18	W 1
T 2	12 40 6	11°56'50"	20°49'	15°55'	23°29'	10°16'	11°53'	29°H42	22°23'	21°Q 1	20°33'	6°34'	5°20'	26°20	5°21	T 2
F 3	12 44 2	12°55'47"	5°H 6	16°30'	24° 5	10°43'	12° 3	29°38'	22°26'	21° 0	20°35'	6°R35	5°17'	26°27	5°23	F 3
S 4	12 47 59	13°54'42"	19°18'	17° 9	24°39'	11°10'	12°13'	29°33'	22°30'	20°59'	20°36'	6°34'	5°13'	26°34	5°25	S 4
S 5	12 51 56	14°53'36"	3°Y23	17°52'	25°12'	11°37'	12°23'	29°29'	22°33'	20°59'	20°37'	6°31'	5°10'	26°40	5°27	S 5
M 6	12 55 52	15°52'28"	17°16'	18°39'	25°43'	12° 4	12°33'	29°24'	22°37'	20°58'	20°39'	6°27'	5° 7	26°47	5°30	M 6
T 7	12 59 49	16°51'17"	0°B53	19°29'	26°13'	12°32'	12°44'	29°20'	22°40'	20°57'	20°40'	6°21'	5° 4	26°54	5°33	T 7
W 8	13 3 45	17°50'05"	14°12'	20°22'	26°41'	12°59'	12°54'	29°16'	22°44'	20°56'	20°42'	6°14'	5° 1	27° 0	5°35	W 8
T 9	13 7 42	18°48'50"	27°10'	21°18'	27° 8	13°27'	13° 5	29°11'	22°47'	20°55'	20°43'	6° 7	4°58'	27° 7	5°38	T 9
F 10	13 11 38	19°47'34"	9°H50	22°17'	27°33'	13°55'	13°15'	29° 7	22°50'	20°55'	20°44'	6° 0	4°54'	27°14	5°41	F 10
S 11	13 15 35	20°46'15"	22°11'	23°19'	27°56'	14°24'	13°26'	29° 3	22°54'	20°54'	20°46'	5°55'	4°51'	27°20	5°44	S 11
S 12	13 19 31	21°44'54"	4°B19	24°24'	28°18'	14°52'	13°37'	28°59'	22°57'	20°53'	20°47'	5°51'	4°48'	27°27	5°47	S 12
M13	13 23 28	22°43'31"	16°15'	25°31'	28°37'	15°21'	13°48'	28°55'	23° 1	20°53'	20°49'	5°49'	4°45'	27°34	5°50	M13
T 14	13 27 25	23°42'05"	28° 6	26°40'	28°55'	15°50'	13°59'	28°51'	23° 4	20°52'	20°50'	5°D49	4°42'	27°40	5°53	T 14
W15	13 31 21	24°40'37"	9°Q56	27°52'	29°11'	16°18'	14°10'	28°47'	23° 8	20°52'	20°51'	5°50'	4°38'	27°47	5°56	W15
T 16	13 35 18	25°39'08"	21°51'	29° 7	29°24'	16°48'	14°21'	28°43'	23°11'	20°51'	20°53'	5°51'	4°35'	27°54	5°59	T 16
F 17	13 39 14	26°37'35"	3°H55	0°Y23	29°36'	17°17'	14°32'	28°39'	23°15'	20°51'	20°54'	5°R52	4°32'	28° 1	6° 3	F 17
S 18	13 43 11	27°36'01"	16°13'	1°42'	29°45'	17°46'	14°44'	28°35'	23°18'	20°50'	20°56'	5°52'	4°29'	28° 7	6° 6	S 18
S 19	13 47 7	28°34'25"	28°48'	3° 2	29°52'	18°16'	14°55'	28°31'	23°21'	20°50'	20°57'	5°49'	4°26'	28°14	6°10	S 19
M20	13 51 4	29°32'47"	11°B43	4°25'	29°57'	18°45'	15° 7	28°28'	23°25'	20°49'	20°58'	5°44'	4°23'	28°21	6°13	M20
T 21	13 55 0	0°B31'06"	24°59'	5°50'	29°59'	19°15'	15°18'	28°24'	23°28'	20°49'	21° 0	5°37'	4°19'	28°27	6°17	T 21
W22	13 58 57	1°29'24"	8°H33	7°17'	29°R59	19°45'	15°30'	28°20'	23°32'	20°49'	21° 1	5°29'	4°16'	28°34	6°21	W22
T 23	14 2 53	2°27'41"	22°24'	8°46'	29°57'	20°15'	15°41'	28°17'	23°35'	20°48'	21° 3	5°19'	4°13'	28°41	6°25	T 23
F 24	14 6 50	3°25'55"	6°H27	10°16'	29°52'	20°45'	15°53'	28°13'	23°39'	20°48'	21° 4	5°10'	4°10'	28°47	6°29	F 24
S 25	14 10 47	4°24'08"	20°38'	11°49'	29°45'	21°15'	16° 5	28°10'	23°42'	20°48'	21° 5	5° 3	4° 7	28°54	6°33	S 25
S 26	14 14 43	5°22'20"	4°B53	13°24'	29°35'	21°46'	16°17'	28° 7	23°45'	20°48'	21° 7	4°57'	4° 4	29° 1	6°37	S 26
M27	14 18 40	6°20'30"	19° 7	15° 0	29°23'	22°16'	16°29'	28° 4	23°49'	20°47'	21° 8	4°53'	4° 0	29° 7	6°41	M27
T 28	14 22 36	7°18'38"	3°B18	16°38'	29° 9	22°47'	16°41'	28° 1	23°52'	20°47'	21° 9	4°D52	3°57'	29°14	6°45	T 28
W29	14 26 33	8°16'45"	17°25'	18°18'	28°52'	23°18'	16°53'	27°58'	23°56'	20°47'	21°11'	4°52'	3°54'	29°21	6°49	W29
T 30	14 30 29	9°B14'51"	1°H26	20°Y 1	28°B32	23°B49	17°H 5	27°H55	23°Y59	20°Q47	21°Y12	4°R53	3°H51	29°B27	6°B54	T 30

Delta T = 91.18 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1598
geocentric

MAY 1598 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	14 34 26	10♌12'55	15♋21	21♋45	28♌11	24♌20	17♌17	27♌52	24♋2	20♌47	21♋13	4♌52	3♋48	29♌34	6♌58	F 1
S 2	14 38 23	11♌10'58	29° 8	23°30	27♌47	24°51	17°30	27♌49	24° 6	20♌47	21°15	4♋50	3°44	29°41	7° 2	S 2
S 3	14 42 19	12° 8'59	12♋46	25°18	27°21	25°22	17°42	27°46	24° 9	20♌47	21°16	4°45	3°41	29°47	7° 7	S 3
M 4	14 46 16	13° 6'59	26°15	27° 8	26°54	25°54	17°55	27°44	24°12	20°47	21°17	4°38	3°38	29°54	7°11	M 4
T 5	14 50 12	14° 4'58	9♌31	28°59	26°24	26°25	18° 7	27°41	24°16	20°47	21°19	4°28	3°35	0♌1	7°16	T 5
W 6	14 54 9	15° 2'55	22°34	0♌53	25°53	26°57	18°20	27°39	24°19	20°47	21°20	4°16	3°32	0° 7	7°21	W 6
T 7	14 58 5	16° 0'50	5♌21	2°48	25°20	27°28	18°32	27°36	24°22	20°47	21°21	4° 4	3°29	0°14	7°26	T 7
F 8	15 2 2	16°58'44	17°53	4°45	24°45	28° 0	18°45	27°34	24°25	20°48	21°23	3°52	3°25	0°21	7°30	F 8
S 9	15 5 58	17°56'36	0♌50	6°44	24°10	28°32	18°57	27°32	24°29	20°48	21°24	3°42	3°22	0°27	7°35	S 9
S 10	15 9 55	18°54'27	12°14	8°45	23°34	29° 4	19°10	27°30	24°32	20°48	21°25	3°35	3°19	0°34	7°40	S 10
M 11	15 13 52	19°52'15	24° 9	10°48	22°57	29°36	19°23	27°28	24°35	20°48	21°26	3°30	3°16	0°41	7°45	M 11
T 12	15 17 48	20°50'02	5♌59	12°52	22°19	0♌8	19°36	27°26	24°38	20°49	21°28	3°27	3°13	0°47	7°50	T 12
W 13	15 21 45	21°47'48	17°48	14°58	21°41	0°41	19°49	27°24	24°41	20°49	21°29	3°D26	3°10	0°54	7°55	W 13
T 14	15 25 41	22°45'32	29°43	17° 5	21° 4	1°13	20° 2	27°23	24°44	20°49	21°30	3°R26	3° 6	1° 1	8° 1	T 14
F 15	15 29 38	23°43'14	11♌47	19°13	20°26	1°46	20°15	27°21	24°48	20°50	21°31	3°26	3° 3	1° 7	8° 6	F 15
S 16	15 33 34	24°40'54	24° 7	21°23	19°49	2°18	20°28	27°20	24°51	20°50	21°33	3°25	3° 0	1°14	8°11	S 16
S 17	15 37 31	25°38'33	6♌47	23°33	19°13	2°51	20°41	27°18	24°54	20°51	21°34	3°21	2°57	1°21	8°16	S 17
M 18	15 41 27	26°36'11	19°51	25°44	18°38	3°24	20°54	27°17	24°57	20°51	21°35	3°15	2°54	1°27	8°22	M 18
T 19	15 45 24	27°33'47	3♌19	27°56	18° 3	3°56	21° 7	27°16	25° 0	20°52	21°36	3° 7	2°50	1°34	8°27	T 19
W 20	15 49 21	28°31'21	17°12	0♌8	17°31	4°29	21°20	27°15	25° 3	20°52	21°37	2°56	2°47	1°41	8°33	W 20
T 21	15 53 17	29°28'55	1♌25	2°19	17° 0	5° 2	21°33	27°14	25° 6	20°53	21°38	2°45	2°44	1°47	8°38	T 21
F 22	15 57 14	0♌26'27	15°54	4°31	16°30	5°35	21°46	27°13	25° 9	20°54	21°40	2°33	2°41	1°54	8°44	F 22
S 23	16 1 10	1°23'59	0♌32	6°41	16° 3	6° 8	22° 0	27°12	25°12	20°54	21°41	2°23	2°38	2° 1	8°49	S 23
S 24	16 5 7	2°21'29	15°10	8°51	15°37	6°42	22°13	27°11	25°15	20°55	21°42	2°16	2°35	2° 7	8°55	S 24
M 25	16 9 3	3°18'59	29°44	11° 0	15°14	7°15	22°26	27°11	25°18	20°56	21°43	2°11	2°31	2°14	9° 1	M 25
T 26	16 13 0	4°16'27	14♌7	13° 7	14°53	7°48	22°39	27°10	25°20	20°56	21°44	2° 9	2°28	2°21	9° 6	T 26
W 27	16 16 56	5°13'55	28°18	15°13	14°34	8°22	22°53	27°10	25°23	20°57	21°45	2° 8	2°25	2°27	9°12	W 27
T 28	16 20 53	6°11'22	12♌15	17°16	14°17	8°55	23° 6	27° 9	25°26	20°58	21°46	2° 8	2°22	2°34	9°18	T 28
F 29	16 24 50	7° 8'49	25°58	19°18	14° 3	9°29	23°20	27° 9	25°29	20°59	21°47	2° 8	2°19	2°41	9°24	F 29
S 30	16 28 46	8° 6'15	9♌28	21°18	13°52	10° 3	23°33	27°D 9	25°32	21° 0	21°48	2° 5	2°16	2°47	9°30	S 30
S 31	16 32 43	9♌3'40	22♋47	23♌16	13♌42	10♌37	23♌46	27♌9	25♋34	21♌1	21♋49	1♋59	2♋12	2♌54	9♌36	S 31

Delta T = 91.07 sec

Greg. Calendar

JUNE 1598 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	16 36 39	10♌1'04	5♌53	25♌11	13♌36	11♌10	24♌0	27♌9	25♋37	21♌2	21♋50	1♌51	2♋9	3♌1	9♌42	M 1
T 2	16 40 36	10°58'28	18°48	27° 4	13♌31	11°44	24°13	27° 9	25°40	21° 3	21°51	1♋41	2° 6	3° 7	9°48	T 2
W 3	16 44 32	11°55'51	1♌31	28°54	13°D29	12°18	24°27	27°10	25°42	21° 4	21°52	1°28	2° 3	3°14	9°54	W 3
T 4	16 48 29	12°53'14	14° 2	0♌42	13°29	12°52	24°41	27°10	25°45	21° 5	21°53	1°15	2° 0	3°21	10° 0	T 4
F 5	16 52 25	13°50'35	26°22	2°28	13°32	13°27	24°54	27°11	25°48	21° 6	21°54	1° 3	1°56	3°27	10° 6	F 5
S 6	16 56 22	14°47'56	8♌30	4°11	13°37	14° 1	25° 8	27°11	25°50	21° 7	21°55	0°52	1°53	3°34	10°12	S 6
S 7	17 0 19	15°45'16	20°29	5°51	13°44	14°35	25°21	27°12	25°53	21° 8	21°56	0°44	1°50	3°41	10°18	S 7
M 8	17 4 15	16°42'35	2♌20	7°29	13°53	15° 9	25°35	27°13	25°55	21° 9	21°57	0°38	1°47	3°47	10°24	M 8
T 9	17 8 12	17°39'54	14° 8	9° 4	14° 4	15°44	25°48	27°14	25°58	21°10	21°58	0°34	1°44	3°54	10°31	T 9
W 10	17 12 8	18°37'11	25°56	10°37	14°17	16°18	26° 2	27°15	26° 0	21°11	21°59	0°D33	1°41	4° 1	10°37	W 10
T 11	17 16 5	19°34'28	7♌49	12° 7	14°33	16°53	26°16	27°16	26° 2	21°13	21°59	0°33	1°37	4° 7	10°43	T 11
F 12	17 20 1	20°31'44	19°52	13°34	14°50	17°28	26°29	27°17	26° 5	21°14	22° 0	0°R34	1°34	4°14	10°49	F 12
S 13	17 23 58	21°28'59	2♌11	14°59	15° 9	18° 2	26°43	27°18	26° 7	21°15	22° 1	0°33	1°31	4°21	10°56	S 13
S 14	17 27 54	22°26'13	14°50	16°21	15°30	18°37	26°57	27°20	26° 9	21°17	22° 2	0°31	1°28	4°27	11° 2	S 14
M 15	17 31 51	23°23'26	27°55	17°40	15°52	19°12	27°10	27°21	26°11	21°18	22° 3	0°27	1°25	4°34	11° 8	M 15
T 16	17 35 48	24°20'39	11♌27	18°56	16°17	19°47	27°24	27°23	26°14	21°19	22° 3	0°20	1°22	4°41	11°15	T 16
W 17	17 39 44	25°17'51	25°27	20°10	16°42	20°22	27°38	27°25	26°16	21°21	22° 4	0°11	1°18	4°47	11°21	W 17
T 18	17 43 41	26°15'03	9♌53	21°21	17°10	20°57	27°51	27°26	26°18	21°22	22° 5	0° 2	1°15	4°54	11°28	T 18
F 19	17 47 37	27°12'15	24°39	22°28	17°39	21°32	28° 5	27°28	26°20	21°24	22° 6	29♌53	1°12	5° 1	11°34	F 19
S 20	17 51 34	28° 9'26	9♌37	23°33	18° 9	22° 7	28°19	27°30	26°22	21°25	22° 6	29°44	1° 9	5° 7	11°41	S 20
S 21	17 55 30	29° 6'37	24°37	24°34	18°41	22°42	28°32	27°33	26°24	21°27	22° 7	29°38	1° 6	5°14	11°47	S 21
M 22	17 59 27	0♌3'48	9♌32	25°33	19°14	23°17	28°46	27°35	26°26	21°28	22° 8	29°34	1° 2	5°21	11°54	M 22
T 23	18 3 24	1° 0'59	24°13	26°27	19°49	23°53	29° 0	27°37	26°28	21°30	22° 8	29°D33	0°59	5°27	12° 0	T 23
W 24	18 7 20	1°58'10	8♌37	27°19	20°25	24°28	29°13	27°39	26°30	21°31	22° 9	29°33	0°56	5°34	12° 7	W 24
T 25	18 11 17	2°55'20	22°41	28° 7	21° 2	25° 3	29°27	27°42	26°31	21°33	22° 9	29°34	0°53	5°40	12°13	T 25
F 26	18 15 13	3°52'32	6♋24	28°51	21°40	25°39	29°41	27°44	26°33	21°34	22°10	29°R34	0°50	5°47	12°20	F 26
S 27	18 19 10	4°49'43	19°48	29°32	22°19	26°15	29°54	27°47	26°35	21°36	22°11	29°33	0°47	5°54	12°27	S 27
S 28	18 23 6	5°46'55	2♌55	0♌9	22°59	26°50	0♌8	27°50	26°37	21°38	22°11	29°30	0°43	6° 0	12°33	S 28
M 29	18 27 3	6°44'06	15°46	0°42	23°41	27°26	0°21	27°53	26°38	21°39	22°12	29°25	0°40	6° 7	12°40	M 29
T 30	18 30 59	7♌41'19	28♌25	1♌10	24♌23	28♌2	0♌35	27♌56	26♋40	21♌41	22♋12	29♌17	0♋37	6♌14	12♌46	T 30

Delta T = 90.95 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1598

geocentric

JULY 1598 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	18 34 56	8°38'31"	10°11'51"	1°35'	25°58'6"	28°13'37"	0°49'	27°11'59"	26°42'	21°14'43"	22°13'	29°R 9	0°34'	6°20'	12°53'	W 1
T 2	18 38 53	9°35'44"	23° 7'	1°55'	25°50'	29°13'	1° 2'	28° 2'	26°43'	21°44'	22°13'	29°R 0	0°31'	6°27'	13° 0'	T 2
F 3	18 42 49	10°32'57"	5°13'	2°10'	26°35'	29°49'	1°16'	28° 5'	26°45'	21°46'	22°13'	28°51'	0°28'	6°34'	13° 6'	F 3
S 4	18 46 46	11°30'10"	17°12'	2°21'	27°21'	0°11'25"	1°29'	28° 8'	26°46'	21°48'	22°14'	28°43'	0°24'	6°40'	13°13'	S 4
S 5	18 50 42	12°27'23"	29° 5'	2°27'	28° 8'	1° 1'	1°43'	28°12'	26°47'	21°50'	22°14'	28°37'	0°21'	6°47'	13°20'	S 5
M 6	18 54 39	13°24'36"	10°12'53"	2°R29	28°56'	1°37'	1°56'	28°15'	26°49'	21°52'	22°15'	28°34'	0°18'	6°54'	13°26'	M 6
T 7	18 58 35	14°21'50"	22°39'	2°25'	29°44'	2°13'	2°10'	28°19'	26°50'	21°53'	22°15'	28°32'	0°15'	7° 0'	13°33'	T 7
W 8	19 2 32	15°19'03"	4°11'28"	2°17'	0°11'33"	2°50'	2°23'	28°22'	26°51'	21°55'	22°15'	28°D32	0°12'	7° 7'	13°40'	W 8
T 9	19 6 28	16°16'17"	16°21'	2° 4'	1°22'	3°26'	2°37'	28°26'	26°53'	21°57'	22°16'	28°33'	0° 8'	7°14'	13°46'	T 9
F 10	19 10 25	17°13'31"	28°25'	1°47'	2°13'	4° 2'	2°50'	28°30'	26°54'	21°59'	22°16'	28°35'	0° 5'	7°20'	13°53'	F 10
S 11	19 14 22	18°10'44"	10°12'43"	1°25'	3° 4'	4°39'	3° 4'	28°34'	26°55'	22° 1'	22°16'	28°36'	0° 2'	7°27'	14° 0'	S 11
S 12	19 18 18	19° 7'58"	23°20'	0°59'	3°55'	5°15'	3°17'	28°38'	26°56'	22° 3'	22°16'	28°R36	29°59'	7°34'	14° 6'	S 12
M13	19 22 15	20° 5'13"	6°11'21"	0°29'	4°48'	5°51'	3°30'	28°42'	26°57'	22° 5'	22°17'	28°35'	29°56'	7°40'	14°13'	M13
T 14	19 26 11	21° 2'27"	19°50'	29°56'	5°40'	6°28'	3°44'	28°46'	26°58'	22° 7'	22°17'	28°32'	29°53'	7°47'	14°19'	T 14
W15	19 30 8	21°59'42"	3°12'47"	29°19'	6°34'	7° 5'	3°57'	28°50'	26°59'	22° 9'	22°17'	28°28'	29°49'	7°54'	14°26'	W15
T 16	19 34 4	22°56'57"	18°11'	28°40'	7°28'	7°41'	4°10'	28°54'	27° 0'	22°11'	22°17'	28°23'	29°46'	8° 0'	14°33'	T 16
F 17	19 38 1	23°54'12"	3°30'	27°59'	8°22'	8°18'	4°23'	28°59'	27° 0'	22°13'	22°17'	28°18'	29°43'	8° 7'	14°39'	F 17
S 18	19 41 57	24°51'28"	18° 4'	27°17'	9°17'	8°55'	4°37'	29° 3'	27° 1'	22°15'	22°17'	28°13'	29°40'	8°14'	14°46'	S 18
S 19	19 45 54	25°48'45"	3°11'17"	26°35'	10°13'	9°32'	4°50'	29° 8'	27° 2'	22°17'	22°17'	28°10'	29°37'	8°20'	14°53'	S 19
M20	19 49 51	26°46'02"	18°26'	25°53'	11° 9'	10° 8'	5° 3'	29°12'	27° 3'	22°19'	22°18'	28° 9'	29°34'	8°27'	14°59'	M20
T 21	19 53 47	27°43'20"	3°12'24"	25°11'	12° 5'	10°45'	5°16'	29°17'	27° 3'	22°21'	22°18'	28°D 8	29°30'	8°34'	15° 6'	T 21
W22	19 57 44	28°40'39"	18° 4'	24°32'	13° 2'	11°22'	5°29'	29°22'	27° 4'	22°23'	22°18'	28° 9'	29°27'	8°40'	15°12'	W22
T 23	20 1 40	29°37'59"	2°12'20"	23°55'	13°59'	11°59'	5°42'	29°26'	27° 4'	22°25'	22°R18	28°11'	29°24'	8°47'	15°19'	T 23
F 24	20 5 37	0°13'51"	16°12'	23°21'	14°57'	12°36'	5°55'	29°31'	27° 5'	22°27'	22°18'	28°12'	29°21'	8°54'	15°25'	F 24
S 25	20 9 33	1°32'41"	29°39'	22°51'	15°55'	13°14'	6° 8'	29°36'	27° 5'	22°29'	22°18'	28°R13	29°18'	9° 0'	15°32'	S 25
S 26	20 13 30	2°30'05"	12°18'43"	22°25'	16°54'	13°51'	6°21'	29°41'	27° 6'	22°31'	22°18'	28°12'	29°14'	9° 7'	15°39'	S 26
M27	20 17 26	3°27'29"	25°29'	22° 5'	17°53'	14°28'	6°34'	29°46'	27° 6'	22°33'	22°17'	28°11'	29°11'	9°14'	15°45'	M27
T 28	20 21 23	4°24'55"	7°11'57"	21°50'	18°52'	15° 5'	6°47'	29°51'	27° 6'	22°35'	22°17'	28° 8'	29° 8'	9°20'	15°51'	T 28
W29	20 25 20	5°22'21"	20°12'	21°41'	19°52'	15°43'	6°59'	29°57'	27° 7'	22°38'	22°17'	28° 5'	29° 5'	9°27'	15°58'	W29
T 30	20 29 16	6°19'49"	2°12'17"	21°D38	20°52'	16°20'	7°12'	0°12'2	27° 7'	22°40'	22°17'	28° 1'	29° 2'	9°33'	16° 4'	T 30
F 31	20 33 13	7°17'18"	14°14'	21°41'	21°11'53"	16°11'57"	7°25'	0°12'7	27°11'7	22°14'2	22°17'	27°58'	28°59'	9°14'0	16°11'	F 31

Delta T = 90.84 sec

Greg. Calendar

AUGUST 1598 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 37 9	8°14'49"	26° 6'	21°51'	22°11'53"	17°11'35"	7°37'	0°13'	27°11'7	22°14'4	22°R17	27°R55	28°55'	9°14'7	16°17'	S 1
S 2	20 41 6	9°12'20"	7°12'54"	22° 8'	23°55'	18°13'	7°50'	0°18'	27°R 7	22°46'	22°17'	27°53'	28°52'	9°53'	16°24'	S 2
M 3	20 45 2	10° 9'52"	19°41'	22°32'	24°56'	18°50'	8° 2'	0°24'	27° 7'	22°48'	22°16'	27°52'	28°49'	10° 0'	16°30'	M 3
T 4	20 48 59	11° 7'25"	1°11'30"	23° 2'	25°58'	19°28'	8°15'	0°29'	27° 7'	22°51'	22°16'	27°D52	28°46'	10° 7'	16°36'	T 4
W 5	20 52 55	12° 5'00"	13°22'	23°39'	27° 0'	20° 6'	8°27'	0°35'	27° 7'	22°53'	22°16'	27°52'	28°43'	10°13'	16°43'	W 5
T 6	20 56 52	13° 2'35"	25°21'	24°23'	28° 2'	20°43'	8°40'	0°41'	27° 7'	22°55'	22°16'	27°54'	28°40'	10°20'	16°49'	T 6
F 7	21 0 49	14° 0'11"	7°12'29"	25°13'	29° 4'	21°21'	8°52'	0°46'	27° 7'	22°57'	22°15'	27°55'	28°36'	10°27'	16°55'	F 7
S 8	21 4 45	14°57'49"	19°50'	26°10'	0°12'4	21°59'	9° 4'	0°52'	27° 6'	22°59'	22°15'	27°56'	28°33'	10°33'	17° 1'	S 8
S 9	21 8 42	15°55'27"	2°11'29"	27°13'	1°10'	22°37'	9°16'	0°58'	27° 6'	23° 2'	22°15'	27°57'	28°30'	10°40'	17° 7'	S 9
M10	21 12 38	16°53'06"	15°28'	28°22'	2°14'	23°15'	9°28'	1° 4'	27° 6'	23° 4'	22°14'	27°R57	28°27'	10°47'	17°14'	M10
T 11	21 16 35	17°50'47"	28°50'	29°37'	3°17'	23°53'	9°40'	1°10'	27° 5'	23° 6'	22°14'	27°57'	28°24'	10°53'	17°20'	T 11
W12	21 20 31	18°48'28"	12°12'38"	0°12'58"	4°21'	24°31'	9°52'	1°16'	27° 5'	23° 8'	22°13'	27°56'	28°20'	11° 0'	17°26'	W12
T 13	21 24 28	19°46'11"	2°24'	25°2	5°25'	25°10'	10° 4'	1°22'	27° 4'	23°11'	22°13'	27°55'	28°17'	11° 7'	17°32'	T 13
F 14	21 28 24	20°43'55"	11°12'29"	3°55'	6°30'	25°48'	10°16'	1°28'	27° 4'	23°13'	22°13'	27°55'	28°14'	11°13'	17°38'	F 14
S 15	21 32 21	21°41'40"	26°26'	5°30'	7°34'	26°26'	10°28'	1°35'	27° 3'	23°15'	22°12'	27°54'	28°11'	11°20'	17°44'	S 15
S 16	21 36 18	22°39'26"	11°11'34"	7°10'	8°39'	27° 4'	10°40'	1°41'	27° 3'	23°17'	22°12'	27°53'	28° 8'	11°27'	17°50'	S 16
M17	21 40 14	23°37'13"	26°45'	8°53'	9°44'	27°43'	10°51'	1°47'	27° 2'	23°19'	22°11'	27°D53	28° 5'	11°33'	17°56'	M17
T 18	21 44 11	24°35'02"	11°11'50"	10°39'	10°49'	28°21'	11° 3'	1°53'	27° 1'	23°22'	22°11'	27°53'	28° 1'	11°40'	18° 2'	T 18
W19	21 48 7	25°32'53"	26°39'	12°29'	11°55'	29° 0'	11°14'	2° 0'	27° 1'	23°24'	22°10'	27°54'	27°58'	11°47'	18° 7'	W19
T 20	21 52 4	26°30'45"	11°11'7	14°20'	13° 1'	29°38'	11°26'	2° 6'	27° 0'	23°26'	22°10'	27°54'	27°55'	11°53'	18°13'	T 20
F 21	21 56 0	27°28'39"	25° 9'	16°14'	14° 6'	0°12'17"	11°37'	2°13'	26°59'	23°28'	22° 9'	27°R54	27°52'	12° 0'	18°19'	F 21
S 22	21 59 57	28°26'34"	8°18'44"	18° 9'	15°13'	0°55'	11°48'	2°19'	26°58'	23°31'	22° 8'	27°54'	27°49'	12° 6'	18°25'	S 22
S 23	22 3 53	29°24'32"	21°53'	20° 6'	16°19'	1°34'	12° 0'	2°26'	26°57'	23°33'	22° 8'	27°54'	27°46'	12°13'	18°30'	S 23
M24	22 7 50	0°12'22"	4°11'39"	22° 3'	17°25'	2°13'	12°11'	2°32'	26°56'	23°35'	22° 7'	27°D54	27°42'	12°20'	18°36'	M24
T 25	22 11 47	1°20'33"	17° 5'	24° 1'	18°32'	2°52'	12°22'	2°39'	26°55'	23°37'	22° 6'	27°54'	27°39'	12°26'	18°41'	T 25
W26	22 15 43	2°18'37"	29°16'	25°59'	19°39'	3°31'	12°33'	2°46'	26°54'	23°39'	22° 6'	27°54'	27°36'	12°33'	18°47'	W26
T 27	22 19 40	3°16'42"	11°12'15"	27°57'	20°46'	4°10'	12°43'	2°52'	26°53'	23°42'	22° 5'	27°55'	27°33'	12°40'	18°52'	T 27
F 28	22 23 36	4°14'49"	23° 6'	29°54'	21°53'	4°49'	12°54'	2°59'	26°52'	23°44'	22° 4'	27°55'	27°30'	12°46'	18°58'	F 28
S 29	22 27 33	5°12'58"	4°12'54"	1°11'51"	23° 1'	5°28'	13° 5'	3° 6'	26°50'	23°46'	22° 4'	27°56'	27°26'	12°53'	19° 3'	S 29
S 30	22 31 29	6°11'09"	16°41'	3°48'	24° 8'	6° 7'	13°15'	3°13'	26°49'	23°48'	22° 3'	27°57'	27°23'	13° 0'	19° 9'	S 30
M31	22 35 26	7°11'9"22"	28°12'31"	5°11'44"	25°16'	6°12'46"	13°26'	3°12'0	26°48'	23°48'	22°11'2	27°R57	27°20'	13°12'6	19°14'	M31

Delta T = 90.72 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1598
geocentric

SEPTEMBER 1598 GC

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 39 22	8 ^h 7'36	10 ^h 25	7 ^h 39	26 ^h 24	7 ^h 25	13 ^h 36	3 ^h 26	26 ^h R46	23 ^h 53	22 ^h R 1	27 ^h R56	27 ^h 17	13 ^h 13	19 ^h 19	T 1
W 2	22 43 19	9° 5'52	22°26	9°33	27°32	8° 4	13°47	3°33	26 ^h Y45	23°55	22 ^h Y 1	27 ^h 56	27°14	13°20	19°24	W 2
T 3	22 47 16	10° 4'10	4 ^h 36	11°26	28°40	8°44	13°57	3°40	26°44	23°57	22° 0	27°54	27°11	13°26	19°29	T 3
F 4	22 51 12	11° 2'30	16°56	13°18	29°49	9°23	14° 7	3°47	26°42	23°59	21°59	27°53	27° 7	13°33	19°34	F 4
S 5	22 55 9	12° 0'51	29°28	15°10	0 ^h 57	10° 3	14°17	3°54	26°41	24° 1	21°58	27°51	27° 4	13°40	19°39	S 5
S 6	22 59 5	12°59'14	12 ^h 15	17° 0	2° 6	10°42	14°27	4° 1	26°39	24° 3	21°57	27°49	27° 1	13°46	19°44	S 6
M 7	23 3 2	13°57'39	25°17	18°49	3°15	11°22	14°36	4° 8	26°37	24° 5	21°57	27°47	26°58	13°53	19°49	M 7
T 8	23 6 58	14°56'05	8 ^h 38	20°36	4°24	12° 1	14°46	4°16	26°36	24° 8	21°56	27°D46	26°55	13°59	19°54	T 8
W 9	23 10 55	15°54'33	22°19	22°23	5°33	12°41	14°56	4°23	26°34	24°10	21°55	27°46	26°51	14° 6	19°59	W 9
T 10	23 14 51	16°53'02	6 ^h 20	24° 9	6°42	13°21	15° 5	4°30	26°32	24°12	21°54	27°47	26°48	14°13	20° 3	T 10
F 11	23 18 48	17°51'33	20°40	25°53	7°52	14° 0	15°14	4°37	26°31	24°14	21°53	27°48	26°45	14°19	20° 8	F 11
S 12	23 22 45	18°50'06	5 ^h 17	27°37	9° 1	14°40	15°24	4°44	26°29	24°16	21°52	27°50	26°42	14°26	20°13	S 12
S 13	23 26 41	19°48'41	20° 8	29°19	10°11	15°20	15°33	4°51	26°27	24°18	21°51	27°51	26°39	14°33	20°17	S 13
M14	23 30 38	20°47'17	5 ^h 5	1 ^h 1	11°20	16° 0	15°42	4°58	26°25	24°20	21°50	27°R51	26°36	14°39	20°21	M14
T 15	23 34 34	21°45'54	20° 1	2°41	12°30	16°40	15°51	5° 6	26°23	24°22	21°49	27°49	26°32	14°46	20°26	T 15
W16	23 38 31	22°44'34	4 ^h 47	4°21	13°40	17°20	15°59	5°13	26°22	24°24	21°48	27°47	26°29	14°53	20°30	W16
T 17	23 42 27	23°43'16	19°17	5°59	14°51	18° 0	16° 8	5°20	26°20	24°26	21°47	27°44	26°26	14°59	20°34	T 17
F 18	23 46 24	24°42'00	3 ^h 24	7°37	16° 1	18°40	16°16	5°27	26°18	24°28	21°46	27°40	26°23	15° 6	20°38	F 18
S 19	23 50 20	25°40'47	17° 5	9°13	17°11	19°20	16°25	5°35	26°16	24°30	21°45	27°36	26°20	15°13	20°43	S 19
S 20	23 54 17	26°39'35	0 ^h 20	10°49	18°22	20° 1	16°33	5°42	26°14	24°32	21°44	27°32	26°17	15°19	20°47	S 20
M21	23 58 14	27°38'26	13°10	12°24	19°33	20°41	16°41	5°49	26°12	24°34	21°43	27°30	26°13	15°26	20°50	M21
T 22	0 2 10	28°37'19	25°38	13°57	20°43	21°21	16°49	5°57	26° 9	24°36	21°42	27°D29	26°10	15°33	20°54	T 22
W23	0 6 7	29°36'15	7 ^h 38	15°30	21°54	22° 2	16°57	6° 4	26° 7	24°38	21°41	27°29	26° 7	15°39	20°58	W23
T 24	0 10 3	0 ^h 35'13	19°46	17° 2	23° 5	22°42	17° 5	6°11	26° 5	24°40	21°40	27°31	26° 4	15°46	21° 2	T 24
F 25	0 14 0	1°34'13	1 ^h 36	18°33	24°17	23°23	17°12	6°19	26° 3	24°41	21°39	27°32	26° 1	15°53	21° 5	F 25
S 26	0 17 56	2°33'15	13°23	20° 4	25°28	24° 3	17°20	6°26	26° 1	24°43	21°38	27°34	25°57	15°59	21° 9	S 26
S 27	0 21 53	3°32'20	25°11	21°33	26°39	24°44	17°27	6°33	25°59	24°45	21°37	27°R35	25°54	16° 6	21°13	S 27
M28	0 25 49	4°31'26	7 ^h 5	23° 1	27°51	25°25	17°34	6°41	25°56	24°47	21°36	27°35	25°51	16°12	21°16	M28
T 29	0 29 46	5°30'35	19° 7	24°29	29° 2	26° 6	17°41	6°48	25°54	24°49	21°35	27°32	25°48	16°19	21°19	T 29
W30	0 33 43	6 ^h 29'46	1 ^h 20	25 ^h 56	0 ^h 14	26 ^h 46	17 ^h 48	6 ^h 56	25 ^h Y52	24 ^h 51	21 ^h Y34	27 ^h 28	25 ^h 45	16 ^h 26	21 ^h 22	W30

Delta T = 90.60 sec

Greg. Calendar

OCTOBER 1598 GC

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 37 39	7 ^h 28'59	13 ^h 45	27 ^h 21	1 ^h 26	27 ^h 27	17 ^h 55	7 ^h 3	25°R50	24 ^h 52	21°R33	27°R22	25 ^h 42	16 ^h 32	21 ^h 26	T 1
F 2	0 41 36	8°28'14	26°23	28°46	2°38	28° 8	18° 1	7°10	25 ^h Y47	24°54	21°Y31	27 ^h 15	25°38	16°39	21°29	F 2
S 3	0 45 32	9°27'31	9 ^h 15	0 ^h 10	3°49	28°49	18° 8	7°18	25°45	24°56	21°30	27° 8	25°35	16°46	21°32	S 3
S 4	0 49 29	10°26'50	22°19	1°33	5° 2	29°30	18°14	7°25	25°43	24°57	21°29	27° 1	25°32	16°52	21°35	S 4
M 5	0 53 25	11°26'11	5 ^h 35	2°55	6°14	0 ^h 11	18°20	7°32	25°40	24°59	21°28	26°54	25°29	16°59	21°37	M 5
T 6	0 57 22	12°25'34	19° 5	4°16	7°26	0°53	18°26	7°40	25°38	25° 1	21°27	26°50	25°26	17° 6	21°40	T 6
W 7	1 1 18	13°24'59	2 ^h 46	5°35	8°38	1°34	18°32	7°47	25°36	25° 2	21°26	26°48	25°23	17°12	21°43	W 7
T 8	1 5 15	14°24'26	16°40	6°54	9°51	2°15	18°37	7°54	25°33	25° 4	21°25	26°D47	25°19	17°19	21°45	T 8
F 9	1 9 12	15°23'54	0 ^h 46	8°11	11° 3	2°56	18°43	8° 2	25°31	25° 6	21°24	26°48	25°16	17°26	21°48	F 9
S 10	1 13 8	16°23'24	15° 4	9°27	12°16	3°38	18°48	8° 9	25°28	25° 7	21°22	26°49	25°13	17°32	21°50	S 10
S 11	1 17 5	17°22'55	29°30	10°41	13°28	4°19	18°53	8°16	25°26	25° 9	21°21	26°R49	25°10	17°39	21°52	S 11
M12	1 21 1	18°22'28	14 ^h 3	11°54	14°41	5° 1	18°58	8°24	25°24	25°10	21°20	26°48	25° 7	17°45	21°55	M12
T 13	1 24 58	19°22'03	28°37	13° 5	15°54	5°42	19° 3	8°31	25°21	25°12	21°19	26°45	25° 3	17°52	21°57	T 13
W14	1 28 54	20°21'40	13 ^h Y 5	14°15	17° 7	6°24	19° 8	8°38	25°19	25°13	21°18	26°39	25° 0	17°59	21°59	W14
T 15	1 32 51	21°21'19	27°23	15°22	18°20	7° 6	19°12	8°46	25°16	25°15	21°17	26°31	24°57	18° 5	22° 1	T 15
F 16	1 36 47	22°21'01	11 ^h 23	16°28	19°33	7°47	19°16	8°53	25°14	25°16	21°16	26°21	24°54	18°12	22° 3	F 16
S 17	1 40 44	23°20'44	25° 2	17°30	20°46	8°29	19°20	9° 0	25°11	25°17	21°14	26°12	24°51	18°19	22° 4	S 17
S 18	1 44 40	24°20'29	8 ^h 17	18°31	21°59	9°11	19°24	9° 7	25° 9	25°19	21°13	26° 3	24°48	18°25	22° 6	S 18
M19	1 48 37	25°20'17	21° 9	19°28	23°12	9°53	19°28	9°14	25° 6	25°20	21°12	25°56	24°44	18°32	22° 8	M19
T 20	1 52 34	26°20'07	3 ^h 39	20°22	24°25	10°35	19°32	9°22	25° 4	25°21	21°11	25°51	24°41	18°39	22° 9	T 20
W21	1 56 30	27°19'59	15°50	21°13	25°39	11°17	19°35	9°29	25° 1	25°23	21°10	25°48	24°38	18°45	22°10	W21
T 22	2 0 27	28°19'53	27°49	21°59	26°52	11°59	19°38	9°36	24°59	25°24	21° 9	25°D47	24°35	18°52	22°12	T 22
F 23	2 4 23	29°19'50	9 ^h 39	22°42	28° 6	12°41	19°41	9°43	24°57	25°25	21° 8	25°47	24°32	18°59	22°13	F 23
S 24	2 8 20	0 ^h 19'48	21°26	23°19	29°19	13°23	19°44	9°50	24°54	25°26	21° 7	25°R48	24°28	19° 5	22°14	S 24
S 25	2 12 16	1°19'49	3 ^h 16	23°51	0 ^h 33	14° 6	19°47	9°57	24°52	25°27	21° 5	25°48	24°25	19°12	22°15	S 25
M26	2 16 13	2°19'52	15°14	24°17	1°47	14°48	19°49	10° 4	24°49	25°28	21° 4	25°46	24°22	19°19	22°16	M26
T 27	2 20 9	3°19'57	27°23	24°36	3° 1	15°30	19°51	10°11	24°47	25°29	21° 3	25°41	24°19	19°25	22°17	T 27
W28	2 24 6	4°20'04	9 ^h 47	24°49	4°14	16°13	19°53	10°18	24°44	25°31	21° 2	25°34	24°16	19°32	22°17	W28
T 29	2 28 3	5°20'13	22°28	24°R53	5°28	16°55	19°55	10°25	24°42	25°32	21° 1	25°25	24°13	19°38	22°18	T 29
F 30	2 31 59	6°20'24	5 ^h 26	24°49	6°42	17°38	19°57	10°32	24°40	25°33	21° 0	25°13	24° 9	19°45	22°18	F 30
S 31	2 35 56	7 ^h 20'37	18 ^h 41	24 ^h 36	7 ^h 56	18 ^h 20	19 ^h 59	10 ^h 39	24 ^h Y37	25 ^h 34	20 ^h Y59	25 ^h 1	24 ^h 6	19 ^h 52	22 ^h 19	S 31

Delta T = 90.49 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1598

geocentric

NOVEMBER 1598 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 39 52	8♉20'51	2♊9	24°R13	9♎10	19♍3	20°0	10♌46	24°R35	25♊234	20°R58	24°R48	24♋3	19♏58	22°19	S 1
M 2	2 43 49	9°21'08	15°50	23♍41	10°25	19°46	20°1	10°52	24°Y32	25°35	20°Y57	24♋38	24°0	20°5	22°19	M 2
T 3	2 47 45	10°21'26	29°39	22°58	11°39	20°28	20°2	10°59	24°30	25°36	20°56	24°30	23°57	20°12	22°19	T 3
W 4	2 51 42	11°21'45	13♉34	22°6	12°53	21°11	20°2	11°6	24°28	25°37	20°54	24°24	23°54	20°18	22°R19	W 4
T 5	2 55 39	12°22'06	27°34	21°5	14°7	21°54	20°3	11°13	24°25	25°38	20°53	24°22	23°50	20°25	22°19	T 5
F 6	2 59 35	13°22'28	11♋37	19°57	15°21	22°37	20°3	11°19	24°23	25°39	20°52	24°D21	23°47	20°32	22°19	F 6
S 7	3 3 32	14°22'52	25°42	18°42	16°36	23°20	20°R 3	11°26	24°21	25°39	20°51	24°R21	23°44	20°38	22°19	S 7
S 8	3 7 28	15°23'16	9♊50	17°23	17°50	24°3	20°3	11°32	24°19	25°40	20°50	24°21	23°41	20°45	22°18	S 8
M 9	3 11 25	16°23'43	23°58	16°2	19°4	24°46	20°3	11°39	24°16	25°41	20°49	24°18	23°38	20°52	22°18	M 9
T 10	3 15 21	17°24'10	8°Y 5	14°43	20°19	25°29	20°2	11°45	24°14	25°41	20°48	24°13	23°34	20°58	22°17	T 10
W11	3 19 18	18°24'39	22°7	13°27	21°33	26°12	20°2	11°52	24°12	25°42	20°47	24°4	23°31	21°5	22°17	W11
T 12	3 23 14	19°25'10	6♉0	12°17	22°48	26°56	20°1	11°58	24°10	25°43	20°46	23°53	23°28	21°11	22°16	T 12
F 13	3 27 11	20°25'41	19°42	11°15	24°2	27°39	20°0	12°4	24°8	25°43	20°45	23°41	23°25	21°18	22°15	F 13
S 14	3 31 7	21°26'15	3♊6	10°23	25°17	28°22	19°58	12°11	24°6	25°44	20°44	23°27	23°22	21°25	22°14	S 14
S 15	3 35 4	22°26'50	16°13	9°41	26°32	29°6	19°57	12°17	24°3	25°44	20°43	23°15	23°19	21°31	22°13	S 15
M16	3 39 1	23°27'27	28°59	9°12	27°46	29°49	19°55	12°23	24°1	25°45	20°42	23°4	23°15	21°38	22°12	M16
T 17	3 42 57	24°28'05	11♉27	8°54	29°1	0♉33	19°53	12°29	23°59	25°45	20°42	22°56	23°12	21°45	22°11	T 17
W18	3 46 54	25°28'45	23°38	8°D47	0♍16	1°16	19°51	12°35	23°57	25°45	20°41	22°51	23°9	21°51	22°9	W18
T 19	3 50 50	26°29'27	5♊36	8°52	1°31	2°0	19°49	12°41	23°55	25°46	20°40	22°48	23°6	21°58	22°8	T 19
F 20	3 54 47	27°30'10	17°26	9°7	2°45	2°44	19°46	12°47	23°53	25°46	20°39	22°47	23°3	22°5	22°6	F 20
S 21	3 58 43	28°30'54	29°14	9°31	4°0	3°27	19°44	12°53	23°52	25°46	20°38	22°47	23°0	22°11	22°5	S 21
S 22	4 2 40	29°31'41	11♎4	10°4	5°15	4°11	19°41	12°59	23°50	25°46	20°37	22°47	22°56	22°18	22°3	S 22
M23	4 6 37	0♉32'28	23°2	10°44	6°30	4°55	19°38	13°5	23°48	25°47	20°36	22°45	22°53	22°25	22°1	M23
T 24	4 10 33	1°33'18	5♊14	11°31	7°45	5°39	19°35	13°11	23°46	25°47	20°35	22°41	22°50	22°31	21°59	T 24
W25	4 14 30	2°34'08	17°44	12°24	9°0	6°23	19°31	13°16	23°44	25°47	20°35	22°34	22°47	22°38	21°57	W25
T 26	4 18 26	3°35'00	0♍35	13°23	10°15	7°7	19°28	13°22	23°43	25°47	20°34	22°24	22°44	22°45	21°55	T 26
F 27	4 22 23	4°35'54	13°48	14°26	11°30	7°51	19°24	13°27	23°41	25°47	20°33	22°13	22°40	22°51	21°53	F 27
S 28	4 26 19	5°36'49	27°22	15°33	12°45	8°35	19°20	13°33	23°39	25°R47	20°32	22°0	22°37	22°58	21°51	S 28
S 29	4 30 16	6°37'44	11♊15	16°43	14°0	9°19	19°16	13°38	23°38	25°47	20°31	21°48	22°34	23°4	21°48	S 29
M30	4 34 12	7♊38'41	25♊23	17♍56	15♍15	10♊4	19°11	13♌44	23°Y36	25♊47	20°Y31	21♋37	22♋31	23♏11	21°46	M30

Delta T = 90.38 sec

Greg. Calendar

DECEMBER 1598 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 38 9	8♉39'39	9♉39	19♍12	16♍30	10♊48	19°R 7	13♌49	23°R34	25°R47	20°R30	21°R28	22♋28	23♏18	21°R43	T 1
W 2	4 42 6	9°40'38	23°59	20°30	17°45	11°32	19°2	13°54	23°Y33	25♊247	20°Y29	21♋23	22°25	23°24	21°41	W 2
T 3	4 46 2	10°41'38	8♋18	21°50	19°0	12°17	18°57	13°59	23°32	25°47	20°29	21°20	22°21	23°31	21°38	T 3
F 4	4 49 59	11°42'38	22°33	23°12	20°15	13°1	18°52	14°4	23°30	25°47	20°28	21°D20	22°18	23°38	21°35	F 4
S 5	4 53 55	12°43'38	6♊41	24°35	21°30	13°45	18°47	14°9	23°29	25°46	20°27	21°R20	22°15	23°44	21°32	S 5
S 6	4 57 52	13°44'39	20°42	25°59	22°45	14°30	18°41	14°14	23°27	25°46	20°27	21°20	22°12	23°51	21°30	S 6
M 7	5 1 48	14°45'41	4°Y36	27°24	24°1	15°14	18°36	14°19	23°26	25°46	20°26	21°18	22°9	23°58	21°27	M 7
T 8	5 5 45	15°46'43	18°22	28°51	25°16	15°59	18°30	14°24	23°25	25°46	20°26	21°14	22°6	24°4	21°23	T 8
W 9	5 9 41	16°47'45	1♉59	0♉18	26°31	16°44	18°24	14°28	23°24	25°45	20°25	21°7	22°2	24°11	21°20	W 9
T 10	5 13 38	17°48'48	15°26	1°45	27°46	17°28	18°18	14°33	23°23	25°45	20°24	20°58	21°59	24°18	21°17	T 10
F 11	5 17 35	18°49'52	28°41	3°14	29°1	18°13	18°12	14°37	23°21	25°44	20°24	20°47	21°56	24°24	21°14	F 11
S 12	5 21 31	19°50'56	11♊44	4°42	0♉17	18°58	18°6	14°42	23°20	25°44	20°23	20°35	21°53	24°31	21°11	S 12
S 13	5 25 28	20°52'01	24°33	6°12	1°32	19°43	18°0	14°46	23°19	25°43	20°23	20°24	21°50	24°37	21°7	S 13
M14	5 29 24	21°53'07	7°47	7°41	2°47	20°28	17°53	14°50	23°18	25°43	20°22	20°15	21°46	24°44	21°4	M14
T 15	5 33 21	22°54'13	19°26	9°11	4°2	21°13	17°46	14°54	23°17	25°42	20°22	20°8	21°43	24°51	21°0	T 15
W16	5 37 17	23°55'19	1♊32	10°42	5°18	21°58	17°40	14°59	23°17	25°42	20°22	20°4	21°40	24°57	20°57	W16
T 17	5 41 14	24°56'26	13°28	12°13	6°33	22°43	17°33	15°3	23°16	25°41	20°21	20°2	21°37	25°4	20°53	T 17
F 18	5 45 10	25°57'34	25°18	13°44	7°48	23°28	17°26	15°7	23°15	25°41	20°21	20°D 2	21°34	25°11	20°49	F 18
S 19	5 49 7	26°58'42	7♎4	15°15	9°3	24°13	17°19	15°10	23°14	25°40	20°20	20°3	21°31	25°17	20°45	S 19
S 20	5 53 4	27°59'51	18°54	16°47	10°19	24°58	17°11	15°14	23°14	25°39	20°20	20°4	21°27	25°24	20°42	S 20
M21	5 57 0	29°1'01	0♌51	18°19	11°34	25°43	17°4	15°18	23°13	25°38	20°20	20°R 4	21°24	25°31	20°38	M21
T 22	6 0 57	0♉2'11	13°2	19°51	12°49	26°29	16°57	15°21	23°12	25°38	20°19	20°3	21°21	25°37	20°34	T 22
W23	6 4 53	1°3'21	25°30	21°23	14°5	27°14	16°49	15°25	23°12	25°37	20°19	20°0	21°18	25°44	20°30	W23
T 24	6 8 50	2°4'32	8♍22	22°56	15°20	27°59	16°42	15°28	23°11	25°36	20°19	19°55	21°15	25°51	20°26	T 24
F 25	6 12 46	3°5'44	21°39	24°29	16°35	28°45	16°34	15°31	23°11	25°35	20°19	19°48	21°12	25°57	20°22	F 25
S 26	6 16 43	4°6'55	5♊22	26°3	17°51	29°30	16°26	15°35	23°11	25°34	20°18	19°40	21°8	26°4	20°18	S 26
S 27	6 20 40	5°8'07	19°29	27°36	19°6	0♉16	16°18	15°38	23°10	25°33	20°18	19°32	21°5	26°11	20°14	S 27
M28	6 24 36	6°9'20	3♉56	29°10	20°21	1°1	16°11	15°41	23°10	25°33	20°18	19°25	21°2	26°17	20°9	M28
T 29	6 28 33	7°10'32	18°37	0♉45	21°37	1°47	16°3	15°44	23°10	25°32	20°18	19°20	20°59	26°24	20°5	T 29
W30	6 32 29	8°11'44	3♋24	2°20	22°52	2°33	15°55	15°46	23°10	25°31	20°18	19°17	20°56	26°30	20°1	W30
T 31	6 36 26	9♉12'56	18♋10	3♉55	24♊7	3♉18	15°47	15♌49	23°Y10	25♊30	20°Y18	19°D16	20♋52	26♊37	19°57	T 31

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