



Astrodienst Ephemeris Tables for the year 1593

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 1593

geocentric

JANUARY 1593 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	6 42 8	10 ³ 41'21	21 ¹ 22	13 ³ 21	2 ² 52	19 ¹ 58	2 ³ 55	24 ² R35	29 ¹ 16	11 ¹ R57	14 ¹ 16	18 ¹ R 6	16 ¹ 50	22 ¹ 38	26 ¹ R19	F 1
S 2	6 46 4	11 ¹ 42'33	3 ³ 10	15 ¹ 0	4 ¹ 7	20 ¹ 37	3 ¹ 9	24 ² 31	29 ¹ 17	11 ¹ 56	14 ¹ 16	18 ¹ II 5	16 ¹ 47	22 ¹ 45	26 ¹ 816	S 2
S 3	6 50 1	12 ¹ 43'44	15 ¹ 2	16 ¹ 39	5 ¹ 22	21 ¹ 16	3 ¹ 23	24 ² 26	29 ¹ 19	11 ¹ 55	14 ¹ 16	18 ¹ 3	16 ¹ 44	22 ¹ 51	26 ¹ 14	S 3
M 4	6 53 58	13 ¹ 44'56	27 ¹ 0	18 ¹ 18	6 ¹ 36	21 ¹ 56	3 ¹ 37	24 ² 21	29 ¹ 20	11 ¹ 53	14 ¹ 16	17 ¹ 59	16 ¹ 41	22 ¹ 58	26 ¹ 12	M 4
T 5	6 57 54	14 ¹ 46'07	9 ¹ 5	19 ¹ 58	7 ¹ 51	22 ¹ 35	3 ¹ 51	24 ² 16	29 ¹ 21	11 ¹ 52	14 ¹ 16	17 ¹ 55	16 ¹ 38	23 ¹ 5	26 ¹ 10	T 5
W 6	7 1 51	15 ¹ 47'17	21 ¹ 20	21 ¹ 38	9 ¹ 6	23 ¹ 14	4 ¹ 4	24 ² 11	29 ¹ 23	11 ¹ 50	14 ¹ 16	17 ¹ 50	16 ¹ 34	23 ¹ 11	26 ¹ 8	W 6
T 7	7 5 47	16 ¹ 48'27	3 ¹ 46	23 ¹ 19	10 ¹ 21	23 ¹ 54	4 ¹ 18	24 ² 7	29 ¹ 24	11 ¹ 49	14 ¹ 17	17 ¹ 45	16 ¹ 31	23 ¹ 18	26 ¹ 7	T 7
F 8	7 9 44	17 ¹ 49'37	16 ¹ 24	25 ¹ 0	11 ¹ 36	24 ¹ 33	4 ¹ 32	24 ² 2	29 ¹ 26	11 ¹ 47	14 ¹ 17	17 ¹ 40	16 ¹ 28	23 ¹ 24	26 ¹ 5	F 8
S 9	7 13 40	18 ¹ 50'45	29 ¹ 17	26 ¹ 41	12 ¹ 50	25 ¹ 12	4 ¹ 46	23 ² 57	29 ¹ 27	11 ¹ 46	14 ¹ 17	17 ¹ 37	16 ¹ 25	23 ¹ 31	26 ¹ 3	S 9
S 10	7 17 37	19 ¹ 51'53	12 ¹ 28	28 ¹ 22	14 ¹ 5	25 ¹ 52	4 ¹ 59	23 ² 52	29 ¹ 29	11 ¹ 44	14 ¹ 17	17 ¹ 36	16 ¹ 22	23 ¹ 38	26 ¹ 1	S 10
M 11	7 21 33	20 ¹ 53'00	25 ¹ 58	0 ¹ 4	15 ¹ 20	26 ¹ 31	5 ¹ 13	23 ² 47	29 ¹ 31	11 ¹ 43	14 ¹ 18	17 ¹ D35	16 ¹ 18	23 ¹ 44	26 ¹ 0	M 11
T 12	7 25 30	21 ¹ 54'06	9 ¹ 49	1 ¹ 46	16 ¹ 34	27 ¹ 10	5 ¹ 26	23 ² 42	29 ¹ 32	11 ¹ 41	14 ¹ 18	17 ¹ 36	16 ¹ 15	23 ¹ 51	25 ¹ 58	T 12
W 13	7 29 27	22 ¹ 55'12	24 ¹ 1	3 ¹ 28	17 ¹ 49	27 ¹ 50	5 ¹ 40	23 ² 37	29 ¹ 34	11 ¹ 40	14 ¹ 18	17 ¹ 38	16 ¹ 12	23 ¹ 58	25 ¹ 57	W 13
T 14	7 33 23	23 ¹ 56'16	8 ¹ 34	5 ¹ 9	19 ¹ 4	28 ¹ 29	5 ¹ 54	23 ² 32	29 ¹ 36	11 ¹ 38	14 ¹ 19	17 ¹ 39	16 ¹ 9	24 ¹ 4	25 ¹ 56	T 14
F 15	7 37 20	24 ¹ 57'20	23 ¹ 24	6 ¹ 51	20 ¹ 18	29 ¹ 8	6 ¹ 7	23 ² 27	29 ¹ 38	11 ¹ 36	14 ¹ 19	17 ¹ R39	16 ¹ 6	24 ¹ 11	25 ¹ 54	F 15
S 16	7 41 16	25 ¹ 58'23	8 ¹ 25	8 ¹ 32	21 ¹ 33	29 ¹ 48	6 ¹ 21	23 ² 22	29 ¹ 40	11 ¹ 35	14 ¹ 19	17 ¹ 38	16 ¹ 3	24 ¹ 18	25 ¹ 53	S 16
S 17	7 45 13	26 ¹ 59'24	23 ¹ 30	10 ¹ 12	22 ¹ 47	0 ¹ 27	6 ¹ 34	23 ² 17	29 ¹ 42	11 ¹ 33	14 ¹ 20	17 ¹ 34	15 ¹ 59	24 ¹ 24	25 ¹ 52	S 17
M 18	7 49 9	28 ¹ 0'26	8 ¹ 27	11 ¹ 52	24 ¹ 2	1 ¹ 7	6 ¹ 48	23 ² 12	29 ¹ 44	11 ¹ 32	14 ¹ 20	17 ¹ 29	15 ¹ 56	24 ¹ 31	25 ¹ 51	M 18
T 19	7 53 6	29 ¹ 1'26	23 ¹ 10	13 ¹ 31	25 ¹ 16	1 ¹ 46	7 ¹ 1	23 ² 7	29 ¹ 46	11 ¹ 30	14 ¹ 21	17 ¹ 22	15 ¹ 53	24 ¹ 38	25 ¹ 50	T 19
W 20	7 57 3	0 ¹ 2'25	7 ¹ 30	15 ¹ 8	26 ¹ 31	2 ¹ 25	7 ¹ 14	23 ² 2	29 ¹ 48	11 ¹ 28	14 ¹ 21	17 ¹ 15	15 ¹ 50	24 ¹ 44	25 ¹ 49	W 20
T 21	8 0 59	1 ¹ 3'24	21 ¹ 23	16 ¹ 44	27 ¹ 45	3 ¹ 5	7 ¹ 28	22 ² 57	29 ¹ 50	11 ¹ 27	14 ¹ 22	17 ¹ 9	15 ¹ 47	24 ¹ 51	25 ¹ 48	T 21
F 22	8 4 56	2 ¹ 4'22	4 ¹ 48	18 ¹ 18	28 ¹ 59	3 ¹ 44	7 ¹ 41	22 ² 53	29 ¹ 52	11 ¹ 25	14 ¹ 22	17 ¹ 4	15 ¹ 44	24 ¹ 58	25 ¹ 47	F 22
S 23	8 8 52	3 ¹ 5'20	17 ¹ 45	19 ¹ 49	0 ¹ 14	4 ¹ 24	7 ¹ 54	22 ² 48	29 ¹ 54	11 ¹ 23	14 ¹ 23	17 ¹ 0	15 ¹ 40	25 ¹ 4	25 ¹ 46	S 23
S 24	8 12 49	4 ¹ 6'16	0 ¹ 18	21 ¹ 17	1 ¹ 28	5 ¹ 3	8 ¹ 7	22 ² 43	29 ¹ 56	11 ¹ 22	14 ¹ 24	16 ¹ D59	15 ¹ 37	25 ¹ 11	25 ¹ 45	S 24
M 25	8 16 45	5 ¹ 7'12	12 ¹ 31	22 ¹ 41	2 ¹ 42	5 ¹ 43	8 ¹ 21	22 ² 38	29 ¹ 59	11 ¹ 20	14 ¹ 24	16 ¹ 59	15 ¹ 34	25 ¹ 17	25 ¹ 45	M 25
T 26	8 20 42	6 ¹ 8'07	24 ¹ 30	24 ¹ 1	3 ¹ 57	6 ¹ 22	8 ¹ 34	22 ² 33	0 ¹ 1	11 ¹ 18	14 ¹ 25	17 ¹ 0	15 ¹ 31	25 ¹ 24	25 ¹ 44	T 26
W 27	8 24 38	7 ¹ 9'02	6 ¹ 20	25 ¹ 16	5 ¹ 11	7 ¹ 1	8 ¹ 47	22 ² 29	0 ¹ 3	11 ¹ 17	14 ¹ 25	17 ¹ 2	15 ¹ 28	25 ¹ 31	25 ¹ 44	W 27
T 28	8 28 35	8 ¹ 9'55	18 ¹ 6	26 ¹ 25	6 ¹ 25	7 ¹ 41	9 ¹ 0	22 ² 24	0 ¹ 6	11 ¹ 15	14 ¹ 26	17 ¹ R 2	15 ¹ 24	25 ¹ 37	25 ¹ 43	T 28
F 29	8 32 32	9 ¹ 10'48	29 ¹ 53	27 ¹ 28	7 ¹ 39	8 ¹ 20	9 ¹ 13	22 ² 19	0 ¹ 8	11 ¹ 13	14 ¹ 27	17 ¹ 1	15 ¹ 21	25 ¹ 44	25 ¹ 43	F 29
S 30	8 36 28	10 ¹ 11'40	11 ¹ 34	28 ¹ 23	8 ¹ 53	9 ¹ 0	9 ¹ 26	22 ² 15	0 ¹ 11	11 ¹ 12	14 ¹ 27	16 ¹ 58	15 ¹ 18	25 ¹ 51	25 ¹ 43	S 30
S 31	8 40 25	11 ¹ 12'30	23 ¹ 42	29 ¹ 10	10 ¹ 7	9 ¹ 39	9 ¹ 39	22 ² 10	0 ¹ 13	11 ¹ 10	14 ¹ 28	16 ¹ 52	15 ¹ 15	25 ¹ 57	25 ¹ 43	S 31

Delta T = 98.73 sec

Greg. Calendar

FEBRUARY 1593 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	8 44 21	12 ¹ 13'20	5 ¹ 51	29 ¹ 49	11 ¹ 21	10 ¹ 19	9 ¹ 51	22 ² R 6	0 ¹ 16	11 ¹ R 8	14 ¹ 29	16 ¹ R44	15 ¹ II12	26 ¹ 4	25 ¹ R43	M 1
T 2	8 48 18	13 ¹ 14'08	18 ¹ 10	0 ¹ 17	12 ¹ 35	10 ¹ 58	10 ¹ 4	22 ² 1	0 ¹ 18	11 ¹ 6	14 ¹ 30	16 ¹ II34	15 ¹ 9	26 ¹ 11	25 ¹ D43	T 2
W 3	8 52 14	14 ¹ 14'54	0 ¹ 41	0 ¹ 36	13 ¹ 49	11 ¹ 38	10 ¹ 17	21 ² 57	0 ¹ 21	11 ¹ 5	14 ¹ 30	16 ¹ 23	15 ¹ 5	26 ¹ 17	25 ¹ 843	W 3
T 4	8 56 11	15 ¹ 15'40	13 ¹ 25	0 ¹ R44	15 ¹ 3	12 ¹ 17	10 ¹ 30	21 ² 53	0 ¹ 23	11 ¹ 3	14 ¹ 31	16 ¹ 11	15 ¹ 2	26 ¹ 24	25 ¹ 43	T 4
F 5	9 0 7	16 ¹ 16'23	26 ¹ 20	0 ¹ 42	16 ¹ 17	12 ¹ 57	10 ¹ 42	21 ² 48	0 ¹ 26	11 ¹ 1	14 ¹ 32	16 ¹ 1	14 ¹ 59	26 ¹ 31	25 ¹ 43	F 5
S 6	9 4 4	17 ¹ 17'06	9 ¹ 26	0 ¹ 29	17 ¹ 30	13 ¹ 36	10 ¹ 55	21 ² 44	0 ¹ 29	11 ¹ 0	14 ¹ 33	15 ¹ 53	14 ¹ 56	26 ¹ 37	25 ¹ 43	S 6
S 7	9 8 0	18 ¹ 17'46	22 ¹ 45	0 ¹ 5	18 ¹ 44	14 ¹ 15	11 ¹ 7	21 ² 40	0 ¹ 31	10 ¹ 58	14 ¹ 34	15 ¹ 48	14 ¹ 53	26 ¹ 44	25 ¹ 43	S 7
M 8	9 11 57	19 ¹ 18'25	6 ¹ 17	29 ¹ 31	19 ¹ 58	14 ¹ 55	11 ¹ 20	21 ² 36	0 ¹ 34	10 ¹ 56	14 ¹ 35	15 ¹ 45	14 ¹ 49	26 ¹ 51	25 ¹ 44	M 8
T 9	9 15 54	20 ¹ 19'02	20 ¹ 2	28 ¹ 49	21 ¹ 11	15 ¹ 34	11 ¹ 32	21 ² 32	0 ¹ 37	10 ¹ 55	14 ¹ 35	15 ¹ D44	14 ¹ 46	26 ¹ 57	25 ¹ 44	T 9
W10	9 19 50	21 ¹ 19'37	4 ¹ II 2	27 ¹ 58	22 ¹ 25	16 ¹ 14	11 ¹ 44	21 ² 28	0 ¹ 40	10 ¹ 53	14 ¹ 36	15 ¹ 45	14 ¹ 43	27 ¹ 4	25 ¹ 45	W10
T11	9 23 47	22 ¹ 20'11	18 ¹ 15	27 ¹ 1	23 ¹ 38	16 ¹ 53	11 ¹ 56	21 ² 24	0 ¹ 43	10 ¹ 51	14 ¹ 37	15 ¹ R45	14 ¹ 40	27 ¹ 10	25 ¹ 46	T11
F12	9 27 43	23 ¹ 20'43	2 ¹ 42	25 ¹ 58	24 ¹ 52	17 ¹ 33	12 ¹ 9	21 ² 20	0 ¹ 46	10 ¹ 50	14 ¹ 38	15 ¹ 44	14 ¹ 37	27 ¹ 17	25 ¹ 46	F12
S13	9 31 40	24 ¹ 21'13	17 ¹ 18	24 ¹ 53	26 ¹ 5	18 ¹ 12	12 ¹ 21	21 ² 16	0 ¹ 48	10 ¹ 48	14 ¹ 39	15 ¹ 40	14 ¹ 34	27 ¹ 24	25 ¹ 47	S13
S14	9 35 36	25 ¹ 21'41	1 ¹ 59	23 ¹ 45	27 ¹ 19	18 ¹ 51	12 ¹ 33	21 ² 13	0 ¹ 51	10 ¹ 46	14 ¹ 40	15 ¹ 34	14 ¹ 30	27 ¹ 30	25 ¹ 48	S14
M15	9 39 33	26 ¹ 22'07	16 ¹ 38	22 ¹ 38	28 ¹ 32	19 ¹ 31	12 ¹ 44	21 ² 9	0 ¹ 54	10 ¹ 45	14 ¹ 41	15 ¹ 25	14 ¹ 27	27 ¹ 37	25 ¹ 49	M15
T16	9 43 30	27 ¹ 22'32	1 ¹ 8	21 ¹ 33	29 ¹ 45	20 ¹ 10	12 ¹ 56	21 ² 6	0 ¹ 57	10 ¹ 43	14 ¹ 42	15 ¹ 14	14 ¹ 24	27 ¹ 44	25 ¹ 50	T16
W17	9 47 26	28 ¹ 22'54	15 ¹ 21	20 ¹ 31	0 ¹ Y58	20 ¹ 50	13 ¹ 8	21 ² 2	1 ¹ 0	10 ¹ 42	14 ¹ 43	15 ¹ 3	14 ¹ 21	27 ¹ 50	25 ¹ 51	W17
T18	9 51 23	29 ¹ 23'16	29 ¹ 12	19 ¹ 33	2 ¹ 11	21 ¹ 29	13 ¹ 20	20 ¹ 59	1 ¹ 3	10 ¹ 40	14 ¹ 44	14 ¹ 51	14 ¹ 18	27 ¹ 57	25 ¹ 52	T18
F19	9 55 19	0 ¹ X3'35	12 ¹ 33	18 ¹ 41	3 ¹ 24	22 ¹ 9	13 ¹ 31	20 ¹ 55	1 ¹ 6	10 ¹ 38	14 ¹ 45	14 ¹ 42	14 ¹ 15	28 ¹ 4	25 ¹ 53	F19
S20	9 59 16	1 ¹ 23'53	25 ¹ 39	17 ¹ 55	4 ¹ 37	22 ¹ 48	13 ¹ 43	20 ¹ 52	1 ¹ 9	10 ¹ 37	14 ¹ 46	14 ¹ 34	14 ¹ 11	28 ¹ 10	25 ¹ 54	S20
S21	10 3 12	2 ¹ 24'10	8 ¹ 16	17 ¹ 16	5 ¹ 50	23 ¹ 27	13 ¹ 54	20 ¹ 49	1 ¹ 13	10 ¹ 35	14 ¹ 47	14 ¹ 30	14 ¹ 8	28 ¹ 17	25 ¹ 56	S21
M22	10 7 9	3 ¹ 24'25	20 ¹ 33	16 ¹ 44	7 ¹ 3	24 ¹ 7	14 ¹ 6	20 ¹ 46	1 ¹ 16	10 ¹ 34	14 ¹ 49	14 ¹ 27	14 ¹ 5	28 ¹ 24	25 ¹ 57	M22
T23	10 11 5	4 ¹ 24'39	2 ¹ X34	16 ¹ 19	8 ¹ 15	24 ¹ 46	14 ¹ 17	20 ¹ 43	1 ¹ 19	10 ¹ 32	14 ¹ 50	14 ¹ D27	14 ¹ 2	28 ¹ 30	25 ¹ 59	T23
W24	10 15 2	5 ¹ 24'51	14 ¹ 25	16 ¹ 1	9 ¹ 28	25 ¹ 26	14 ¹ 28	20 ¹ 41	1 ¹ 22	10 ¹ 31	14 ¹ 51	14 ¹ R27	13 ¹ 59	28 ¹ 37	26 ¹ 0	W24
T25	10 18 58	6 ¹ 25'02	26 ¹ 13	15 ¹ 50	10 ¹ 41	26 ¹ 5	14 ¹ 39	20 ¹ 38	1 ¹ 25	10 ¹ 29	14 ¹ 52	14 ¹ 26	13 ¹ 55	28 ¹ 44	26 ¹ 2	T25
F26	10 22 55	7 ¹ 25'11	8 ¹ 1	15 ¹ D46	11 ¹ 53	26 ¹ 45	14 ¹ 50	20 ¹ 35	1 ¹ 28	10 ¹ 28	14 ¹ 53	14 ¹ 24	13 ¹ 52	28 ¹ 50	26 ¹ 4	F26
S27	10 26 52	8 ¹ 25'18	19 ¹ 55	15 ¹ 48	13 ¹ 6	27 ¹ 24	15 ¹ 1	20 ¹ 33	1 ¹ 32	10 ¹ 26	14 ¹ 54	14 ¹ 20	13 ¹ 49	28 ¹ 57	26 ¹ 5	S27
S28	10 30 48	9 ¹ X25'24	2 ¹ 0	15 ¹ 57	14 ¹ Y18	28 ¹ X 3	15 ¹ 312	20 ¹ 3030	1 ¹ Y35	10 ¹ 25	14 ¹ Y55	14 ¹ II13	13 ¹ II46	29 ¹ X 4	26 ¹ X 7	S28

ASTRODIENST EPHEMERIS for the year 1593

geocentric

MARCH 1593 GC

00:00 UT

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

Delta T = 98.48 sec

Greg. Calendar

APRIL 1593 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 36 58	11°10'23	1°27	20°33	22°8'4	18°55	19°58	20°10	3°23	9°R51	15°38	10°R40	12°II 4	2°36	27°37	T 1
F 2	12 40 54	12° 9'22	15° 7	22°11	23°13	19°34	20° 5	20°11	3°26	9°L50	15°39	10°II31	12° 1	2°43	27°41	F 2
S 3	12 44 51	13° 8'19	29° 1	23°51	24°21	20°13	20°11	20°12	3°30	9°50	15°41	10°23	11°58	2°50	27°45	S 3
S 4	12 48 47	14° 7'14	13°8'6	25°31	25°30	20°51	20°18	20°13	3°33	9°49	15°42	10°18	11°55	2°56	27°48	S 4
M 5	12 52 44	15° 6'07	27°17	27°14	26°38	21°30	20°24	20°15	3°37	9°49	15°44	10°15	11°52	3° 3	27°52	M 5
T 6	12 56 41	16° 4'58	11°II31	28°58	27°47	22° 9	20°30	20°16	3°40	9°48	15°45	10°D14	11°48	3°10	27°56	T 6
W 7	13 0 37	17° 3'47	25°45	0°Y43	28°55	22°47	20°36	20°18	3°43	9°48	15°46	10°15	11°45	3°16	28° 0	W 7
T 8	13 4 34	18° 2'33	9°356	2°30	0°II 3	23°26	20°42	20°20	3°47	9°47	15°48	10°16	11°42	3°23	28° 4	T 8
F 9	13 8 30	19° 1'17	24° 3	4°18	1°11	24° 4	20°48	20°22	3°50	9°47	15°49	10°R16	11°39	3°30	28° 8	F 9
S 10	13 12 27	19°59'59	8°L 5	6° 8	2°18	24°43	20°53	20°24	3°53	9°47	15°51	10°14	11°36	3°36	28°12	S 10
S 11	13 16 23	20°58'38	22° 0	8° 0	3°26	25°21	20°58	20°26	3°57	9°46	15°52	10°11	11°32	3°43	28°16	S 11
M12	13 20 20	21°57'15	5°II48	9°53	4°33	25°59	21° 4	20°28	4° 0	9°46	15°54	10° 5	11°29	3°50	28°20	M12
T 13	13 24 16	22°55'50	19°25	11°48	5°40	26°37	21° 9	20°31	4° 3	9°46	15°55	9°58	11°26	3°56	28°24	T 13
W14	13 28 13	23°54'22	2°50	13°44	6°47	27°16	21°14	20°33	4° 7	9°45	15°56	9°50	11°23	4° 3	28°28	W14
T 15	13 32 10	24°52'53	16° 2	15°42	7°53	27°54	21°18	20°36	4°10	9°45	15°58	9°42	11°20	4°10	28°32	T 15
F 16	13 36 6	25°51'22	28°58	17°41	9° 0	28°32	21°23	20°38	4°13	9°45	15°59	9°36	11°17	4°16	28°37	F 16
S 17	13 40 3	26°49'49	11°II39	19°42	10° 6	29°10	21°27	20°41	4°16	9°45	16° 1	9°30	11°13	4°23	28°41	S 17
S 18	13 43 59	27°48'14	24° 4	21°45	11°12	29°48	21°31	20°44	4°20	9°45	16° 2	9°27	11°10	4°29	28°45	S 18
M19	13 47 56	28°46'37	6°II15	23°48	12°18	0°326	21°35	20°47	4°23	9°45	16° 3	9°D26	11° 7	4°36	28°49	M19
T 20	13 51 52	29°44'59	18°15	25°53	13°24	1° 4	21°39	20°50	4°26	9°D45	16° 5	9°26	11° 4	4°43	28°54	T 20
W21	13 55 49	0°II43'19	0°3'8	27°59	14°29	1°42	21°43	20°53	4°29	9°45	16° 6	9°28	11° 1	4°49	28°58	W21
T 22	13 59 45	1°41'37	11°57	0°3'6	15°34	2°20	21°46	20°56	4°32	9°45	16° 8	9°29	10°58	4°56	29° 3	T 22
F 23	14 3 42	2°39'54	23°47	2°15	16°39	2°57	21°50	20°59	4°35	9°45	16° 9	9°31	10°54	5° 3	29° 7	F 23
S 24	14 7 39	3°38'09	5°II44	4°23	17°44	3°35	21°53	21° 3	4°39	9°45	16°10	9°R31	10°51	5° 9	29°12	S 24
S 25	14 11 35	4°36'23	17°53	6°33	18°49	4°13	21°56	21° 6	4°42	9°45	16°12	9°30	10°48	5°16	29°16	S 25
M26	14 15 32	5°34'35	0°II17	8°42	19°53	4°50	21°58	21°10	4°45	9°45	16°13	9°28	10°45	5°23	29°20	M26
T 27	14 19 28	6°32'46	13° 2	10°52	20°57	5°28	22° 1	21°14	4°48	9°45	16°14	9°24	10°42	5°29	29°25	T 27
W28	14 23 25	7°30'55	26° 9	13° 1	22° 0	6° 5	22° 3	21°17	4°51	9°46	16°16	9°19	10°38	5°36	29°30	W28
T 29	14 27 21	8°29'02	9°Y39	15° 9	23° 4	6°42	22° 6	21°21	4°54	9°46	16°17	9°14	10°35	5°43	29°34	T 29
F 30	14 31 18	9°27'08	23°Y33	17°3'17	24°II 7	7°319	22°3'8	21°325	4°Y57	9°L46	16°Y18	9°II10	10°II32	5°349	29°339	F 30

ASTRODIENST EPHEMERIS for the year 1593

geocentric

MAY 1593 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 35 14	10 ⁸ 25'13	7 ⁸ 46	19 ⁸ 24	25 ^{II} 10	7 [≈] 57	22 ^Σ 9	21 ^Σ 29	5 ^Υ 0	9 ^Δ 47	16 ^Υ 20	9 ^R 6	10 ^{II} 29	5 ^Σ 56	29 ⁸ 43	S 1
S 2	14 39 11	11°23'16	22°14	21°29	26°13	8°34	22°11	21°33	5° 3	9°47	16°21	9 ^{II} 4	10°26	6° 3	29°48	S 2
M 3	14 43 8	12°21'17	6 ^{II} 51	23°32	27°15	9°11	22°12	21°38	5° 6	9°47	16°22	9°D 3	10°23	6° 9	29°53	M 3
T 4	14 47 4	13°19'17	21°31	25°34	28°17	9°47	22°14	21°42	5° 8	9°48	16°24	9° 4	10°19	6°16	29°57	T 4
W 5	14 51 1	14°17'14	6 ^Σ 7	27°33	29°19	10°24	22°15	21°46	5°11	9°48	16°25	9° 5	10°16	6°23	0 ^{II} 2	W 5
T 6	14 54 57	15°15'10	20°35	29°30	0 ^Σ 20	11° 1	22°16	21°51	5°14	9°49	16°26	9° 6	10°13	6°29	0° 7	T 6
F 7	14 58 54	16°13'05	4 ^Δ 51	1 ^{II} 24	1°21	11°37	22°16	21°55	5°17	9°49	16°27	9° 7	10°10	6°36	0°11	F 7
S 8	15 2 50	17°10'57	18°53	3°16	2°22	12°14	22°17	22° 0	5°20	9°50	16°29	9°R 8	10° 7	6°43	0°16	S 8
S 9	15 6 47	18° 8'47	2 ^{II} 41	5° 4	3°22	12°50	22°17	22° 5	5°22	9°50	16°30	9° 7	10° 4	6°49	0°21	S 9
M10	15 10 43	19° 6'36	16°13	6°50	4°22	13°26	22°R17	22°10	5°25	9°51	16°31	9° 5	10° 0	6°56	0°26	M10
T 11	15 14 40	20° 4'23	29°30	8°32	5°22	14° 2	22°17	22°14	5°28	9°52	16°32	9° 3	9°57	7° 3	0°31	T 11
W12	15 18 37	21° 2'08	12 ^Δ 33	10°11	6°21	14°38	22°17	22°19	5°30	9°52	16°34	9° 1	9°54	7° 9	0°35	W12
T 13	15 22 33	21°59'51	25°21	11°47	7°19	15°14	22°17	22°24	5°33	9°53	16°35	8°58	9°51	7°16	0°40	T 13
F 14	15 26 30	22°57'33	7 ^{II} 57	13°20	8°18	15°50	22°16	22°29	5°36	9°54	16°36	8°56	9°48	7°23	0°45	F 14
S 15	15 30 26	23°55'14	20°20	14°49	9°16	16°26	22°15	22°35	5°38	9°55	16°37	8°54	9°44	7°29	0°50	S 15
S 16	15 34 23	24°52'54	2 ^Δ 32	16°14	10°13	17° 1	22°14	22°40	5°41	9°55	16°38	8°54	9°41	7°36	0°55	S 16
M17	15 38 19	25°50'32	14°35	17°37	11°10	17°37	22°13	22°45	5°43	9°56	16°39	8°D54	9°38	7°43	0°59	M17
T 18	15 42 16	26°48'09	26°30	18°55	12° 6	18°12	22°12	22°51	5°46	9°57	16°41	8°54	9°35	7°49	1° 4	T 18
W19	15 46 12	27°45'45	8 ^Σ 21	20°11	13° 2	18°47	22°10	22°56	5°48	9°58	16°42	8°55	9°32	7°56	1° 9	W19
T 20	15 50 9	28°43'19	20°10	21°22	13°58	19°22	22° 8	23° 2	5°50	9°59	16°43	8°56	9°29	8° 3	1°14	T 20
F 21	15 54 6	29°40'53	2 [≈] 1	22°30	14°53	19°57	22° 6	23° 7	5°53	10° 0	16°44	8°57	9°25	8° 9	1°19	F 21
S 22	15 58 2	0 ^{II} 38'26	13°58	23°34	15°47	20°31	22° 4	23°13	5°55	10° 1	16°45	8°58	9°22	8°16	1°24	S 22
S 23	16 1 59	1°35'58	26° 6	24°35	16°41	21° 6	22° 2	23°19	5°57	10° 2	16°46	8°58	9°19	8°23	1°28	S 23
M24	16 5 55	2°33'29	8 ^Δ 28	25°31	17°34	21°40	22° 0	23°24	6° 0	10° 3	16°47	8°R58	9°16	8°29	1°33	M24
T 25	16 9 52	3°30'59	21°10	26°24	18°27	22°15	21°57	23°30	6° 2	10° 4	16°48	8°58	9°13	8°36	1°38	T 25
W26	16 13 48	4°28'29	4 ^Υ 15	27°12	19°19	22°49	21°54	23°36	6° 4	10° 5	16°49	8°58	9° 9	8°43	1°43	W26
T 27	16 17 45	5°25'57	17°45	27°57	20°10	23°22	21°51	23°42	6° 6	10° 6	16°50	8°57	9° 6	8°49	1°48	T 27
F 28	16 21 41	6°23'25	1 ^Δ 41	28°37	21° 1	23°56	21°48	23°48	6° 8	10° 8	16°51	8°57	9° 3	8°56	1°53	F 28
S 29	16 25 38	7°20'52	16° 2	29°13	21°51	24°30	21°44	23°54	6°10	10° 9	16°52	8°57	9° 0	9° 3	1°58	S 29
S 30	16 29 35	8°18'19	0 ^{II} 43	29°45	22°40	25° 3	21°41	24° 1	6°12	10°10	16°53	8°D57	8°57	9° 9	2° 2	S 30
M31	16 33 31	9 ^{II} 15'44	15 ^{II} 38	0 ^Σ 13	23 ^Σ 28	25 [≈] 36	21 ^Σ 37	24 ^Σ 7	6°Υ14	10 ^Δ 11	16°Υ54	8°R57	8 ^{II} 54	9 ^Σ 16	2 ^{II} 7	M31

Delta T = 98.23 sec

Greg. Calendar

JUNE 1593 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 37 28	10 ^{II} 13'09	0 ^Σ 39	0 ^Σ 36	24 ^Σ 16	26 [≈] 9	21°R33	24 ^Σ 13	6°Υ16	10 ^Δ 12	16°Υ55	8°R56	8 ^{II} 50	9 ^Σ 23	2 ^{II} 12	T 1
W 2	16 41 24	11°10'33	15°38	0°54	25° 3	26°41	21 ^Σ 29	24°19	6°18	10°14	16°56	8 ^{II} 56	8°47	9°29	2°17	W 2
T 3	16 45 21	12° 7'55	0 ^Δ 27	1° 8	25°49	27°14	21°25	24°26	6°20	10°15	16°57	8°56	8°44	9°36	2°22	T 3
F 4	16 49 17	13° 5'17	14°59	1°17	26°35	27°46	21°20	24°32	6°22	10°16	16°58	8°56	8°41	9°43	2°27	F 4
S 5	16 53 14	14° 2'37	29°11	1°22	27°19	28°18	21°16	24°39	6°23	10°18	16°59	8°55	8°38	9°49	2°31	S 5
S 6	16 57 11	14°59'57	13 ^{II} 1	1°R22	28° 2	28°50	21°11	24°45	6°25	10°19	16°59	8°D55	8°35	9°56	2°36	S 6
M 7	17 1 7	15°57'15	26°28	1°18	28°45	29°21	21° 6	24°52	6°27	10°21	17° 0	8°55	8°31	10° 3	2°41	M 7
T 8	17 5 4	16°54'32	9 ^Δ 35	1° 9	29°26	29°53	21° 1	24°59	6°29	10°22	17° 1	8°56	8°28	10° 9	2°46	T 8
W 9	17 9 0	17°51'49	22°23	0°56	0 ^Δ 6	0 ^Δ 24	20°56	25° 5	6°30	10°24	17° 2	8°56	8°25	10°16	2°50	W 9
T 10	17 12 57	18°49'04	4 ^{II} 55	0°39	0°46	0°54	20°51	25°12	6°32	10°25	17° 3	8°57	8°22	10°23	2°55	T 10
F 11	17 16 53	19°46'19	17°14	0°18	1°24	1°25	20°45	25°19	6°33	10°27	17° 3	8°58	8°19	10°29	3° 0	F 11
S 12	17 20 50	20°43'33	29°22	29 ^{II} 54	2° 1	1°55	20°40	25°26	6°35	10°28	17° 4	8°59	8°15	10°36	3° 5	S 12
S 13	17 24 46	21°40'47	11 ^Δ 23	29°27	2°36	2°25	20°34	25°32	6°36	10°30	17° 5	8°R59	8°12	10°43	3° 9	S 13
M14	17 28 43	22°38'00	23°17	28°58	3°11	2°55	20°28	25°39	6°37	10°31	17° 6	8°59	8° 9	10°49	3°14	M14
T 15	17 32 40	23°35'13	5 ^Σ 8	28°26	3°44	3°24	20°22	25°46	6°39	10°33	17° 6	8°57	8° 6	10°56	3°19	T 15
W16	17 36 36	24°32'25	16°57	27°52	4°15	3°53	20°16	25°53	6°40	10°35	17° 7	8°56	8° 3	11° 3	3°23	W16
T 17	17 40 33	25°29'37	28°47	27°18	4°46	4°22	20°10	26° 0	6°41	10°36	17° 8	8°53	8° 0	11° 9	3°28	T 17
F 18	17 44 29	26°26'49	10 [≈] 41	26°43	5°14	4°51	20° 3	26° 7	6°43	10°38	17° 8	8°51	7°56	11°16	3°33	F 18
S 19	17 48 26	27°24'01	22°40	26° 8	5°42	5°19	19°57	26°15	6°44	10°40	17° 9	8°48	7°53	11°23	3°37	S 19
S 20	17 52 22	28°21'12	4 ^Δ 49	25°34	6° 7	5°46	19°50	26°22	6°45	10°41	17° 9	8°46	7°50	11°29	3°42	S 20
M21	17 56 19	29°18'24	17°12	25° 1	6°31	6°14	19°43	26°29	6°46	10°43	17°10	8°44	7°47	11°36	3°46	M21
T 22	18 0 15	0 ^Σ 15'35	29°51	24°30	6°54	6°41	19°37	26°36	6°47	10°45	17°10	8°D44	7°44	11°43	3°51	T 22
W23	18 4 12	1°12'47	12°Υ51	24° 2	7°14	7° 8	19°30	26°43	6°48	10°47	17°11	8°44	7°41	11°49	3°55	W23
T 24	18 8 9	2° 9'59	26°14	23°36	7°33	7°34	19°23	26°51	6°49	10°49	17°12	8°45	7°37	11°56	4° 0	T 24
F 25	18 12 5	3° 7'10	10 ^Δ 4	23°14	7°50	8° 0	19°16	26°58	6°50	10°50	17°12	8°47	7°34	12° 3	4° 4	F 25
S 26	18 16 2	4° 4'23	24°20	22°55	8° 5	8°26	19° 9	27° 5	6°50	10°52	17°12	8°48	7°31	12° 9	4° 9	S 26
S 27	18 19 58	5° 1'35	8 ^{II} 59	22°41	8°18	8°51	19° 1	27°13	6°51	10°54	17°13	8°R49	7°28	12°16	4°13	S 27
M28	18 23 55	5°58'47	23°59	22°31	8°29	9°16	18°54	27°20	6°52	10°56	17°13	8°48	7°25	12°23	4°17	M28
T 29	18 27 51	6°56'00	9 ^Σ 9	22°26	8°38	9°40	18°47	27°28	6°53	10°58	17°14	8°46	7°21	12°29	4°22	T 29
W30	18 31 48	7°53'12	24 ^Σ 22	22°D25	8 ^Δ 44	10 ^Δ 4	18 ^Σ 39	27 ^Σ 35	6°Υ53	11 ^Δ 0	17°Υ14	8 ^{II} 43	7 ^{II} 18	12 ^Σ 36	4 ^{II} 26	W30

Delta T = 98.11 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1593
geocentric

JULY 1593 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 35 44	8♂50'25	9♂27	22♂30	8♂49	10♂27	18♂32	27♂42	6♂54	11♂2	17♂15	8♂R39	7♂15	12♂43	4♂30	T 1
F 2	18 39 41	9°47'37	24°15	22°39	8°R51	10°50	18♂24	27°50	6°54	11°4	17°15	8♂35	7°12	12°49	4°34	F 2
S 3	18 43 38	10°44'49	8♂40	22°54	8°51	11°13	18°17	27°58	6°55	11°6	17°15	8°31	7°9	12°56	4°39	S 3
S 4	18 47 34	11°42'01	22°38	23°14	8°48	11°35	18°9	28°5	6°55	11°8	17°15	8°28	7°6	13°3	4°43	S 4
M 5	18 51 31	12°39'13	6♂8	23°39	8°44	11°56	18°1	28°13	6°56	11°10	17°16	8°27	7°2	13°9	4°47	M 5
T 6	18 55 27	13°36'25	19°13	24°9	8°36	12°17	17°54	28°20	6°56	11°12	17°16	8°D27	6°59	13°16	4°51	T 6
W 7	18 59 24	14°33'37	1♂55	24°44	8°27	12°37	17°46	28°28	6°56	11°14	17°16	8°28	6°56	13°23	4°55	W 7
T 8	19 3 20	15°30'49	14°18	25°25	8°15	12°57	17°38	28°35	6°56	11°16	17°16	8°29	6°53	13°29	4°59	T 8
F 9	19 7 17	16°28'01	26°28	26°11	8°0	13°17	17°31	28°43	6°57	11°18	17°17	8°31	6°50	13°36	5°3	F 9
S 10	19 11 13	17°25'13	8♂27	27°2	7°44	13°36	17°23	28°51	6°57	11°20	17°17	8°R31	6°47	13°43	5°7	S 10
S 11	19 15 10	18°22'26	20°20	27°57	7°25	13°54	17°15	28°58	6°57	11°22	17°17	8°31	6°43	13°49	5°11	S 11
M12	19 19 7	19°19'39	2♂9	28°58	7°3	14°12	17°7	29°6	6°R57	11°24	17°17	8°28	6°40	13°56	5°15	M12
T 13	19 23 3	20°16'52	13°58	0♂4	6°40	14°29	17°0	29°14	6°57	11°26	17°17	8°24	6°37	14°3	5°19	T 13
W14	19 27 0	21°14'05	25°49	1°14	6°14	14°45	16°52	29°21	6°57	11°28	17°17	8°17	6°34	14°9	5°23	W14
T 15	19 30 56	22°11'19	7♂43	2°29	5°47	15°1	16°44	29°29	6°57	11°30	17°17	8°10	6°31	14°16	5°26	T 15
F 16	19 34 53	23°8'34	19°42	3°49	5°17	15°17	16°37	29°37	6°57	11°32	17°17	8°1	6°27	14°23	5°30	F 16
S 17	19 38 49	24°5'49	1♂49	5°13	4°46	15°31	16°29	29°45	6°56	11°35	17°17	7°53	6°24	14°29	5°34	S 17
S 18	19 42 46	25°3'06	14°4	6°42	4°14	15°45	16°21	29°52	6°56	11°37	17°R17	7°46	6°21	14°36	5°37	S 18
M19	19 46 43	26°0'22	26°30	8°15	3°40	15°59	16°14	0♂0	6°56	11°39	17°17	7°41	6°18	14°43	5°41	M19
T 20	19 50 39	26°57'40	9♂11	9°52	3°5	16°11	16°6	0°8	6°56	11°41	17°17	7°37	6°15	14°49	5°45	T 20
W21	19 54 36	27°54'59	22°9	11°33	2°29	16°23	15°59	0°16	6°55	11°43	17°17	7°35	6°12	14°56	5°48	W21
T 22	19 58 32	28°52'19	5♂26	13°18	1°52	16°35	15°51	0°23	6°55	11°45	17°17	7°D35	6°8	15°3	5°52	T 22
F 23	20 2 29	29°49'40	19°6	15°6	1°15	16°45	15°44	0°31	6°54	11°48	17°17	7°36	6°5	15°9	5°55	F 23
S 24	20 6 25	0♂47'02	3♂11	16°57	0°38	16°55	15°37	0°39	6°54	11°50	17°17	7°R37	6°2	15°16	5°58	S 24
S 25	20 10 22	1°44'25	17°40	18°51	0°0	17°4	15°30	0°47	6°53	11°52	17°17	7°37	5°59	15°23	6°2	S 25
M26	20 14 18	2°41'49	2♂29	20°47	29♂23	17°12	15°23	0°54	6°53	11°54	17°17	7°35	5°56	15°30	6°5	M26
T 27	20 18 15	3°39'15	17°34	22°46	28°47	17°20	15°16	1°2	6°52	11°56	17°17	7°30	5°53	15°36	6°8	T 27
W28	20 22 12	4°36'41	2♂46	24°46	28°11	17°26	15°9	1°10	6°51	11°59	17°16	7°23	5°49	15°43	6°11	W28
T 29	20 26 8	5°34'09	17°55	26°48	27°36	17°32	15°2	1°18	6°50	12°1	17°16	7°15	5°46	15°50	6°14	T 29
F 30	20 30 5	6°31'37	2♂49	28°51	27°2	17°37	14°55	1°25	6°50	12°3	17°16	7°6	5°43	15°56	6°17	F 30
S 31	20 34 1	7♂29'06	17♂22	0♂55	26♂30	17♂42	14♂48	1♂33	6♂49	12♂5	17♂16	6♂58	5♂40	16♂3	6♂20	S 31

Delta T = 97.99 sec

Greg. Calendar

AUGUST 1593 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 37 58	8♂26'35	1♂27	2♂59	25°R59	17♂45	14°R42	1♂41	6°R48	12♂7	17°R15	6°R51	5♂37	16♂10	6♂23	S 1
M 2	20 41 54	9°24'06	15°3	5°3	25♂29	17°48	14♂36	1°49	6°47	12°10	17°15	6♂46	5°33	16°16	6°26	M 2
T 3	20 45 51	10°21'37	28°11	7°7	25°2	17°50	14°29	1°56	6°46	12°12	17°15	6°44	5°30	16°23	6°29	T 3
W 4	20 49 47	11°19'09	10♂53	9°11	24°36	17°51	14°23	2°4	6°45	12°14	17°14	6°D43	5°27	16°30	6°32	W 4
T 5	20 53 44	12°16'43	23°15	11°15	24°13	17°R51	14°17	2°12	6°44	12°16	17°14	6°43	5°24	16°36	6°35	T 5
F 6	20 57 41	13°14'17	5♂21	13°17	23°51	17°50	14°11	2°19	6°43	12°19	17°14	6°R44	5°21	16°43	6°37	F 6
S 7	21 1 137	14°11'52	17°17	15°19	23°32	17°49	14°5	2°27	6°41	12°21	17°13	6°43	5°18	16°50	6°40	S 7
S 8	21 5 34	15°9'28	29°7	17°19	23°16	17°47	14°0	2°35	6°40	12°23	17°13	6°41	5°14	16°56	6°42	S 8
M 9	21 9 30	16°7'05	10♂55	19°19	23°1	17°44	13°54	2°42	6°39	12°25	17°12	6°36	5°11	17°3	6°45	M 9
T 10	21 13 27	17°4'43	22°45	21°17	22°49	17°40	13°49	2°50	6°38	12°27	17°12	6°29	5°8	17°10	6°47	T 10
W11	21 17 23	18°2'23	4♂40	23°14	22°39	17°35	13°44	2°58	6°36	12°30	17°11	6°19	5°5	17°16	6°50	W11
T 12	21 21 20	19°0'03	16°41	25°10	22°32	17°30	13°39	3°5	6°35	12°32	17°11	6°7	5°2	17°23	6°52	T 12
F 13	21 25 16	19°57'45	28°51	27°5	22°27	17°24	13°34	3°13	6°34	12°34	17°10	5°54	4°59	17°30	6°54	F 13
S 14	21 29 13	20°55'29	11♂8	28°58	22°25	17°17	13°29	3°20	6°32	12°36	17°10	5°41	4°55	17°36	6°56	S 14
S 15	21 33 10	21°53'13	23°36	0♂49	22°D25	17°9	13°24	3°28	6°31	12°39	17°9	5°30	4°52	17°43	6°59	S 15
M16	21 37 6	22°51'00	6♂14	2°40	22°27	17°1	13°20	3°35	6°29	12°41	17°9	5°21	4°49	17°50	7°1	M16
T 17	21 41 3	23°48'48	19°3	4°28	22°31	16°52	13°16	3°43	6°28	12°43	17°8	5°14	4°46	17°56	7°3	T 17
W18	21 44 59	24°46'38	2♂6	6°16	22°38	16°42	13°12	3°50	6°26	12°45	17°7	5°10	4°43	18°3	7°5	W18
T 19	21 48 56	25°44'29	15°24	8°2	22°47	16°31	13°8	3°58	6°24	12°47	17°7	5°8	4°39	18°10	7°6	T 19
F 20	21 52 52	26°42'23	29°0	9°47	22°58	16°20	13°4	4°5	6°23	12°49	17°6	5°8	4°36	18°17	7°8	F 20
S 21	21 56 49	27°40'18	12♂55	11°31	23°11	16°8	13°0	4°12	6°21	12°52	17°5	5°8	4°33	18°23	7°10	S 21
S 22	22 0 45	28°38'15	27°9	13°13	23°26	15°56	12°57	4°20	6°19	12°54	17°5	5°7	4°30	18°30	7°12	S 22
M23	22 4 42	29°36'14	11♂42	14°54	23°44	15°43	12°54	4°27	6°17	12°56	17°4	5°4	4°27	18°37	7°13	M23
T 24	22 8 39	0♂34'15	26°29	16°33	24°3	15°29	12°51	4°34	6°16	12°58	17°3	4°58	4°24	18°43	7°15	T 24
W25	22 12 35	1°32'18	11♂25	18°12	24°24	15°15	12°48	4°41	6°14	13°0	17°2	4°49	4°20	18°50	7°16	W25
T 26	22 16 32	2°30'23	26°21	19°49	24°46	15°1	12°45	4°49	6°12	13°2	17°2	4°38	4°17	18°57	7°18	T 26
F 27	22 20 28	3°28'29	11♂7	21°25	25°11	14°46	12°43	4°56	6°10	13°4	17°1	4°27	4°14	19°3	7°19	F 27
S 28	22 24 25	4°26'36	25°37	22°59	25°37	14°30	12°40	5°3	6°8	13°7	17°0	4°16	4°11	19°10	7°20	S 28
S 29	22 28 21	5°24'46	9♂42	24°33	26°4	14°15	12°38	5°10	6°6	13°9	16°59	4°6	4°8	19°17	7°21	S 29
M30	22 32 18	6°22'57	23°19	26°5	26°33	13°59	12°36	5°17	6°4	13°11	16°59	3°59	4°5	19°23	7°23	M30
T 31	22 36 14	7♂21'09	6♂30	27♂36	27♂4	13♂42	12♂34	5♂24	6♂2	13♂13	16♂58	3♂55	4♂1	19♂30	7♂24	T 31

Delta T = 97.86 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1593
geocentric

SEPTEMBER 1593 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	22 40 11	8♐19'23	19♍15	29♍5	27♍36	13°R26	12°R33	5♏31	6°R 0	13♏15	16°R57	3°R53	3♐58	19♌37	7♐25	W 1
T 2	22 44 7	9°17'39	1♌38	0♏34	28° 9	13♐10	12♌32	5°38	5°Y58	13°17	16°Y56	3♐52	3°55	19°43	7°26	T 2
F 3	22 48 4	10°15'56	13°45	2° 1	28°44	12°53	12°30	5°45	5°56	13°19	16°55	3°52	3°52	19°50	7°26	F 3
S 4	22 52 1	11°14'14	25°41	3°27	29°20	12°36	12°29	5°52	5°54	13°21	16°54	3°52	3°49	19°57	7°27	S 4
S 5	22 55 57	12°12'35	7♌31	4°51	29°57	12°20	12°29	5°58	5°52	13°23	16°53	3°49	3°45	20° 3	7°28	S 5
M 6	22 59 54	13°10'57	19°21	6°15	0♏36	12° 3	12°28	6° 5	5°49	13°25	16°52	3°45	3°42	20°10	7°28	M 6
T 7	23 3 50	14° 9'20	1♌14	7°37	1°16	11°47	12°28	6°12	5°47	13°27	16°51	3°37	3°39	20°17	7°29	T 7
W 8	23 7 47	15° 7'45	13°14	8°57	1°56	11°30	12°27	6°19	5°45	13°29	16°51	3°27	3°36	20°24	7°30	W 8
T 9	23 11 43	16° 6'12	25°23	10°16	2°38	11°14	12°D27	6°25	5°43	13°31	16°50	3°15	3°33	20°30	7°30	T 9
F 10	23 15 40	17° 4'41	7♐44	11°34	3°21	10°58	12°28	6°32	5°41	13°33	16°49	3° 2	3°30	20°37	7°30	F 10
S 11	23 19 36	18° 3'11	20°17	12°50	4° 5	10°43	12°28	6°38	5°38	13°35	16°48	2°50	3°26	20°44	7°31	S 11
S 12	23 23 33	19° 1'44	3♐2	14° 5	4°50	10°28	12°29	6°45	5°36	13°37	16°47	2°38	3°23	20°50	7°31	S 12
M13	23 27 30	20° 0'18	15°58	15°18	5°35	10°13	12°29	6°51	5°34	13°39	16°46	2°28	3°20	20°57	7°31	M13
T 14	23 31 26	20°58'55	29° 6	16°29	6°22	9°58	12°30	6°57	5°31	13°40	16°45	2°22	3°17	21° 4	7°R31	T 14
W15	23 35 23	21°57'33	12♌24	17°38	7°10	9°44	12°31	7° 4	5°29	13°42	16°44	2°18	3°14	21°10	7°31	W15
T 16	23 39 19	22°56'14	25°53	18°46	7°58	9°31	12°33	7°10	5°27	13°44	16°43	2°16	3°10	21°17	7°31	T 16
F 17	23 43 16	23°54'58	9♐34	19°51	8°47	9°17	12°34	7°16	5°24	13°46	16°42	2°D16	3° 7	21°24	7°31	F 17
S 18	23 47 12	24°53'43	23°27	20°54	9°37	9° 5	12°36	7°22	5°22	13°48	16°40	2°R16	3° 4	21°30	7°30	S 18
S 19	23 51 9	25°52'31	7♌32	21°55	10°28	8°53	12°38	7°28	5°20	13°49	16°39	2°16	3° 1	21°37	7°30	S 19
M20	23 55 5	26°51'22	21°49	22°53	11°19	8°41	12°40	7°34	5°17	13°51	16°38	2°14	2°58	21°44	7°30	M20
T 21	23 59 2	27°50'14	6♏15	23°49	12°11	8°31	12°42	7°40	5°15	13°53	16°37	2° 9	2°55	21°50	7°29	T 21
W22	0 2 59	28°49'09	20°47	24°41	13° 4	8°21	12°45	7°46	5°12	13°55	16°36	2° 2	2°51	21°57	7°29	W22
T 23	0 6 55	29°48'06	5♐18	25°31	13°58	8°11	12°48	7°52	5°10	13°56	16°35	1°53	2°48	22° 4	7°28	T 23
F 24	0 10 52	0♏47'05	19°43	26°17	14°52	8° 2	12°50	7°57	5° 8	13°58	16°34	1°43	2°45	22° 11	7°28	F 24
S 25	0 14 48	1°46'06	3♏55	26°59	15°46	7°54	12°53	8° 3	5° 5	14° 0	16°33	1°33	2°42	22°17	7°27	S 25
S 26	0 18 45	2°45'10	17°48	27°37	16°42	7°47	12°57	8° 9	5° 3	14° 1	16°32	1°25	2°39	22°24	7°26	S 26
M27	0 22 41	3°44'15	1♍18	28°10	17°38	7°41	13° 0	8°14	5° 0	14° 3	16°31	1°19	2°36	22°31	7°25	M27
T 28	0 26 38	4°43'22	14°26	28°39	18°34	7°35	13° 4	8°19	4°58	14° 4	16°30	1°15	2°32	22°37	7°24	T 28
W29	0 30 34	5°42'31	27°10	29° 2	19°31	7°30	13° 7	8°25	4°55	14° 6	16°28	1°D13	2°29	22°44	7°23	W29
T 30	0 34 31	6♏41'42	9♐34	29♏20	20♏28	7♐26	13♌11	8♏30	4°Y53	14♏7	16°Y27	1♐14	2♐26	22♌51	7♐22	T 30

Delta T = 97.73 sec

Greg. Calendar

OCTOBER 1593 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	0 38 28	7♏40'55	21♌43	29♏31	21♏26	7°R23	13♌16	8♏35	4°R51	14♏9	16°R26	1♐15	2♐23	22♌57	7°R21	F 1
S 2	0 42 24	8°40'10	3♌40	29°R36	22°25	7♐20	13°20	8°40	4°Y48	14°10	16°Y25	1°R16	2°20	23° 4	7♐20	S 2
S 3	0 46 21	9°39'26	15°32	29°33	23°23	7°19	13°24	8°46	4°46	14°12	16°24	1°15	2°16	23°11	7°18	S 3
M 4	0 50 17	10°38'44	27°23	29°23	24°23	7°18	13°29	8°51	4°43	14°13	16°23	1°14	2°13	23°17	7°17	M 4
T 5	0 54 14	11°38'04	9♏18	29° 5	25°23	7°D18	13°34	8°55	4°41	14°15	16°22	1°10	2°10	23°24	7°15	T 5
W 6	0 58 10	12°37'26	21°22	28°39	26°23	7°18	13°39	9° 0	4°39	14°16	16°20	1° 4	2° 7	23°31	7°14	W 6
T 7	1 2 7	13°36'50	3♐37	28° 5	27°23	7°20	13°44	9° 5	4°36	14°17	16°19	0°57	2° 4	23°38	7°12	T 7
F 8	1 6 3	14°36'15	16° 8	27°22	28°24	7°22	13°50	9°10	4°34	14°19	16°18	0°48	2° 1	23°44	7°11	F 8
S 9	1 10 0	15°35'43	28°54	26°31	29°26	7°25	13°55	9°14	4°31	14°20	16°17	0°40	1°57	23°51	7° 9	S 9
S 10	1 13 57	16°35'12	11♐57	25°33	0♐28	7°29	14° 1	9°19	4°29	14°21	16°16	0°32	1°54	23°58	7° 7	S 10
M11	1 17 53	17°34'43	25°14	24°29	1°30	7°34	14° 7	9°23	4°27	14°22	16°15	0°26	1°51	24° 4	7° 5	M11
T 12	1 21 50	18°34'17	8♏46	23°19	2°32	7°39	14°13	9°27	4°24	14°24	16°14	0°22	1°48	24°11	7° 3	T 12
W13	1 25 46	19°33'53	22°28	22° 6	3°35	7°45	14°19	9°32	4°22	14°25	16°12	0°20	1°45	24°18	7° 2	W13
T 14	1 29 43	20°33'31	6♐22	20°52	4°38	7°52	14°25	9°36	4°20	14°26	16°11	0°D20	1°42	24°24	6°59	T 14
F 15	1 33 39	21°33'11	20°18	19°38	5°42	8° 0	14°32	9°40	4°17	14°27	16°10	0°21	1°38	24°31	6°57	F 15
S 16	1 37 36	22°32'53	4♌22	18°27	6°46	8° 8	14°38	9°44	4°15	14°28	16° 9	0°23	1°35	24°38	6°55	S 16
S 17	1 41 32	23°32'38	18°30	17°21	7°50	8°17	14°45	9°48	4°13	14°29	16° 8	0°R24	1°32	24°44	6°53	S 17
M18	1 45 29	24°32'25	2♏40	16°22	8°55	8°27	14°52	9°51	4°11	14°30	16° 7	0°24	1°29	24°51	6°51	M18
T 19	1 49 26	25°32'15	16°50	15°31	9°59	8°37	14°59	9°55	4° 8	14°31	16° 6	0°22	1°26	24°58	6°48	T 19
W20	1 53 22	26°32'07	0♐59	14°51	11° 4	8°48	15° 7	9°59	4° 6	14°32	16° 4	0°19	1°22	25° 5	6°46	W20
T 21	1 57 19	27°32'00	15° 4	14°21	12°10	9° 0	15°14	10° 2	4° 4	14°33	16° 3	0°14	1°19	25°11	6°44	T 21
F 22	2 1 15	28°31'56	29° 0	14° 3	13°15	9°12	15°22	10° 6	4° 2	14°34	16° 2	0° 9	1°16	25°18	6°41	F 22
S 23	2 5 12	29°31'54	12♏45	13°D57	14°21	9°25	15°29	10° 9	4° 0	14°35	16° 1	0° 4	1°13	25°25	6°39	S 23
S 24	2 9 8	0♐31'55	26°15	14° 1	15°28	9°39	15°37	10°12	3°58	14°35	16° 0	29♌59	1°10	25°31	6°36	S 24
M25	2 13 5	1°31'57	9♐29	14°17	16°34	9°53	15°45	10°15	3°56	14°36	15°59	29°57	1° 7	25°38	6°33	M25
T 26	2 17 1	2°32'01	22°24	14°42	17°41	10° 8	15°53	10°18	3°54	14°37	15°58	29°55	1° 3	25°45	6°31	T 26
W27	2 20 58	3°32'06	5♐2	15°17	18°48	10°24	16° 2	10°21	3°52	14°38	15°57	29°D55	1° 0	25°51	6°28	W27
T 28	2 24 54	4°32'14	17°24	16° 1	19°55	10°40	16°10	10°24	3°50	14°38	15°56	29°56	0°57	25°58	6°25	T 28
F 29	2 28 51	5°32'23	29°31	16°52	21° 2	10°57	16°19	10°27	3°48	14°39	15°54	29°58	0°54	26° 5	6°22	F 29
S 30	2 32 48	6°32'34	11♌29	17°50	22°10	11°14	16°27	10°29	3°46	14°40	15°53	29°59	0°51	26°12	6°19	S 30
S 31	2 36 44	7♐32'47	23♌21	18♏53	23♐17	11♐32	16♌36	10♏32	3°Y44	14♏40	15°Y52	0♐1	0♐48	26♌18	6♐16	S 31

Delta T = 97.61 sec

Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1593

geocentric

NOVEMBER 1593 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	2 40 41	8♂33'01	5♂12	20♂ 2	24♂25	11♂50	16♂45	10♂34	3°R42	14♂41	15°R51	0°R 2	0♂44	26♂25	6°R13	M 1
T 2	2 44 37	9°33'16	17° 7	21°16	25°33	12° 9	16°54	10°36	3°Y40	14°41	15°Y50	0°II 2	0°41	26°32	6°II10	T 2
W 3	2 48 34	10°33'33	29°11	22°33	26°42	12°29	17° 4	10°39	3°38	14°42	15°49	0° 0	0°38	26°38	6° 7	W 3
T 4	2 52 30	11°33'52	11♂27	23°54	27°50	12°49	17°13	10°41	3°37	14°42	15°48	29♂58	0°35	26°45	6° 4	T 4
F 5	2 56 27	12°34'11	24° 1	25°17	28°59	13° 9	17°22	10°43	3°35	14°43	15°47	29°56	0°32	26°52	6° 1	F 5
S 6	3 0 23	13°34'33	6°Y54	26°42	0♂ 8	13°30	17°32	10°44	3°33	14°43	15°46	29°54	0°28	26°58	5°58	S 6
S 7	3 4 20	14°34'56	20° 8	28°10	1°17	13°51	17°42	10°46	3°31	14°44	15°45	29°51	0°25	27° 5	5°55	S 7
M 8	3 8 17	15°35'20	3♂43	29°39	2°26	14°13	17°51	10°48	3°30	14°44	15°44	29°49	0°22	27°12	5°51	M 8
T 9	3 12 13	16°35'46	17°37	1♂ 9	3°36	14°35	18° 1	10°49	3°28	14°44	15°43	29°48	0°19	27°19	5°48	T 9
W10	3 16 10	17°36'14	1♂46	2°40	4°45	14°58	18°12	10°51	3°27	14°44	15°42	29°D48	0°16	27°25	5°45	W10
T 11	3 20 6	18°36'44	16° 6	4°12	5°55	15°21	18°22	10°52	3°25	14°45	15°41	29°49	0°13	27°32	5°41	T 11
F 12	3 24 3	19°37'15	0♂32	5°45	7° 5	15°44	18°32	10°53	3°24	14°45	15°40	29°49	0° 9	27°39	5°38	F 12
S 13	3 27 59	20°37'48	15° 0	7°19	8°15	16° 8	18°42	10°54	3°22	14°45	15°39	29°50	0° 6	27°45	5°35	S 13
S 14	3 31 56	21°38'23	29°24	8°52	9°25	16°33	18°53	10°55	3°21	14°45	15°39	29°51	0° 3	27°52	5°31	S 14
M15	3 35 53	22°38'59	13♂40	10°26	10°36	16°57	19° 4	10°56	3°20	14°45	15°38	29°51	29♂59	27°59	5°28	M15
T 16	3 39 49	23°39'38	27°48	12° 1	11°46	17°22	19°14	10°57	3°18	14°45	15°37	29°R51	29°57	28° 5	5°24	T 16
W17	3 43 46	24°40'18	11♂44	13°35	12°57	17°48	19°25	10°57	3°17	14°R45	15°36	29°51	29°53	28°12	5°21	W17
T 18	3 47 42	25°40'59	25°27	15°10	14° 8	18°13	19°36	10°58	3°16	14°45	15°35	29°51	29°50	28°19	5°17	T 18
F 19	3 51 39	26°41'43	8♂58	16°44	15°19	18°39	19°47	10°58	3°15	14°45	15°34	29°50	29°47	28°26	5°14	F 19
S 20	3 55 35	27°42'28	22°16	18°19	16°30	19° 6	19°58	10°59	3°13	14°45	15°33	29°50	29°44	28°32	5°10	S 20
S 21	3 59 32	28°43'14	5♂20	19°53	17°41	19°32	20° 9	10°59	3°12	14°45	15°33	29°50	29°41	28°39	5° 7	S 21
M22	4 3 28	29°44'02	18°11	21°28	18°52	19°59	20°21	10°R59	3°11	14°45	15°32	29°D50	29°38	28°46	5° 3	M22
T 23	4 7 25	0♂44'51	0♂49	23° 3	20° 3	20°27	20°32	10°59	3°10	14°45	15°31	29°R50	29°34	28°52	5° 0	T 23
W24	4 11 22	1°45'42	13°14	24°37	21°15	20°54	20°44	10°59	3° 9	14°45	15°30	29°50	29°31	28°59	4°56	W24
T 25	4 15 18	2°46'34	25°28	26°11	22°27	21°22	20°55	10°58	3° 9	14°44	15°30	29°50	29°28	29° 6	4°52	T 25
F 26	4 19 15	3°47'26	7♂31	27°46	23°38	21°51	21° 7	10°58	3° 8	14°44	15°29	29°49	29°25	29°12	4°49	F 26
S 27	4 23 11	4°48'20	19°28	29°20	24°50	22°19	21°19	10°58	3° 7	14°44	15°28	29°49	29°22	29°19	4°45	S 27
S 28	4 27 8	5°49'15	1♂19	0♂54	26° 2	22°48	21°31	10°57	3° 6	14°43	15°28	29°48	29°19	29°26	4°42	S 28
M29	4 31 4	6°50'11	13°10	2°29	27°14	23°17	21°43	10°56	3° 5	14°43	15°27	29°47	29°15	29°33	4°38	M29
T 30	4 35 1	7♂51'07	25♂ 3	4♂ 3	28♂26	23♂46	21♂55	10♂55	3°Y 5	14♂42	15°Y26	29♂46	29♂12	29♂39	4♂34	T 30

Delta T = 97.49 sec

Greg. Calendar

DECEMBER 1593 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	4 38 57	8♂52'04	7♂ 4	5♂37	29♂38	24♂16	22♂ 7	10°R54	3°R 4	14°R42	15°R26	29°D46	29♂ 9	29♂46	4°R31	W 1
T 2	4 42 54	9°53'02	19°17	7°11	0♂51	24°46	22°19	10♂53	3°Y 4	14♂42	15°Y25	29♂46	29° 6	29°53	4°II27	T 2
F 3	4 46 51	10°54'00	1°Y47	8°45	2° 3	25°16	22°31	10°52	3° 3	14°41	15°24	29°47	29° 3	29°59	4°24	F 3
S 4	4 50 47	11°54'59	14°37	10°20	3°15	25°46	22°44	10°51	3° 3	14°40	15°24	29°48	28°59	0♂ 6	4°20	S 4
S 5	4 54 44	12°55'59	27°52	11°54	4°28	26°16	22°56	10°49	3° 2	14°40	15°23	29°49	28°56	0°13	4°17	S 5
M 6	4 58 40	13°56'59	11♂32	13°28	5°40	26°47	23° 8	10°48	3° 2	14°39	15°23	29°50	28°53	0°20	4°13	M 6
T 7	5 2 37	14°58'01	25°37	15° 2	6°53	27°18	23°21	10°46	3° 2	14°39	15°22	29°R51	28°50	0°26	4°10	T 7
W 8	5 6 33	15°59'02	10♂ 5	16°37	8° 6	27°49	23°34	10°45	3° 1	14°38	15°22	29°50	28°47	0°33	4° 6	W 8
T 9	5 10 30	17° 0'05	24°50	18°11	9°19	28°21	23°46	10°43	3° 1	14°37	15°21	29°49	28°44	0°40	4° 3	T 9
F 10	5 14 26	18° 1'08	9♂45	19°46	10°31	28°52	23°59	10°41	3° 1	14°36	15°21	29°47	28°40	0°46	3°59	F 10
S 11	5 18 23	19° 2'13	24°41	21°21	11°44	29°24	24°12	10°39	3° 1	14°36	15°20	29°45	28°37	0°53	3°56	S 11
S 12	5 22 20	20° 3'18	9♂30	22°56	12°57	29°56	24°25	10°37	3°D 1	14°35	15°20	29°42	28°34	1° 0	3°52	S 12
M13	5 26 16	21° 4'23	24° 6	24°31	14°11	0°Y28	24°38	10°35	3° 1	14°34	15°20	29°40	28°31	1° 6	3°49	M13
T 14	5 30 13	22° 5'30	8♂24	26° 6	15°24	1° 0	24°51	10°32	3° 1	14°33	15°19	29°38	28°28	1°13	3°45	T 14
W15	5 34 9	23° 6'37	22°21	27°42	16°37	1°32	25° 4	10°30	3° 1	14°32	15°19	29°D38	28°25	1°20	3°42	W15
T 16	5 38 6	24° 7'45	5♂57	29°17	17°50	2° 5	25°17	10°27	3° 1	14°31	15°19	29°38	28°21	1°27	3°39	T 16
F 17	5 42 2	25° 8'54	19°13	0♂53	19° 3	2°38	25°30	10°25	3° 1	14°30	15°18	29°39	28°18	1°33	3°36	F 17
S 18	5 45 59	26°10'04	2♂12	2°29	20°17	3°11	25°44	10°22	3° 2	14°29	15°18	29°41	28°15	1°40	3°32	S 18
S 19	5 49 55	27°11'14	14°55	4° 5	21°30	3°44	25°57	10°19	3° 2	14°28	15°18	29°43	28°12	1°47	3°29	S 19
M20	5 53 52	28°12'25	27°25	5°42	22°44	4°17	26°10	10°16	3° 2	14°27	15°18	29°R43	28° 9	1°53	3°26	M20
T 21	5 57 49	29°13'36	9♂45	7°18	23°57	4°50	26°24	10°13	3° 3	14°26	15°17	29°43	28° 5	2° 0	3°23	T 21
W22	6 1 45	0♂14'47	21°56	8°55	25°11	5°24	26°37	10°10	3° 3	14°25	15°17	29°41	28° 2	2° 7	3°20	W22
T 23	6 5 42	1°15'59	3♂59	10°32	26°25	5°57	26°51	10° 7	3° 4	14°24	15°17	29°37	27°59	2°14	3°17	T 23
F 24	6 9 38	2°17'11	15°57	12° 9	27°38	6°31	27° 4	10° 3	3° 4	14°23	15°17	29°32	27°56	2°20	3°14	F 24
S 25	6 13 35	3°18'24	27°50	13°46	28°52	7° 5	27°18	10° 0	3° 5	14°22	15°17	29°26	27°53	2°27	3°11	S 25
S 26	6 17 31	4°19'36	9♂41	15°23	0♂ 6	7°39	27°31	9°57	3° 6	14°21	15°17	29°19	27°50	2°34	3° 8	S 26
M27	6 21 28	5°20'48	21°32	17° 0	1°19	8°13	27°45	9°53	3° 6	14°20	15°17	29°12	27°46	2°40	3° 5	M27
T 28	6 25 25	6°21'59	3♂25	18°37	2°33	8°47	27°59	9°50	3° 7	14°18	15°16	29° 6	27°43	2°47	3° 2	T 28
W29	6 29 21	7°23'11	15°25	20°14	3°47	9°22	28°13	9°46	3° 8	14°17	15°16	29° 2	27°40	2°54	2°59	W29
T 30	6 33 18	8°24'22	27°34	21°50	5° 1	9°56	28°26	9°42	3° 9	14°16	15°D16	29° 0	27°37	3° 1	2°56	T 30
F 31	6 37 14	9♂25'33	9°Y58	23♂26	6♂15	10°Y31	28♂40	9♂38	3°Y10	14♂14	15°Y16	28°D59	27♂34	3♂ 7	2°II54	F 31

Delta T = 97.36 sec

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