



# Astrodienst Ephemeris Tables for the year 1534

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 1534  
geocentric

JANUARY 1534 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	7 18 46	20 <sup>3</sup> 11'52	26 <sup>3</sup> 31	1 <sup>3</sup> 39	27 <sup>2</sup> 21	5 <sup>0</sup> D15	12 <sup>2</sup> 18	22 <sup>0</sup> R 9	15 <sup>0</sup> R36	27 <sup>2</sup> 56	2 <sup>2</sup> 11	16 <sup>0</sup> R11	17 <sup>0</sup> 28	22 <sup>0</sup> Y53	5 <sup>0</sup> Y22	T 1
F 2	7 22 43	21 <sup>0</sup> 12'57	10 <sup>0</sup> 6	3 <sup>0</sup> 20	28 <sup>0</sup> 34	5 <sup>0</sup> II15	12 <sup>0</sup> 31	22 <sup>0</sup> 4	15 <sup>0</sup> 33	27 <sup>0</sup> 57	2 <sup>0</sup> 13	16 <sup>0</sup> D10	17 <sup>0</sup> 25	23 <sup>0</sup> 0	5 <sup>0</sup> 24	F 2
S 3	7 26 39	22 <sup>0</sup> 14'02	23 <sup>0</sup> 52	5 <sup>0</sup> 0	29 <sup>0</sup> 47	5 <sup>0</sup> 16	12 <sup>0</sup> 45	21 <sup>0</sup> 59	15 <sup>0</sup> 30	27 <sup>0</sup> 58	2 <sup>0</sup> 14	16 <sup>0</sup> 10	17 <sup>0</sup> 22	23 <sup>0</sup> 7	5 <sup>0</sup> 25	S 3
S 4	7 30 36	23 <sup>0</sup> 15'06	7 <sup>0</sup> 48	6 <sup>0</sup> 40	0 <sup>0</sup> 59	5 <sup>0</sup> 18	12 <sup>0</sup> 59	21 <sup>0</sup> 54	15 <sup>0</sup> 28	28 <sup>0</sup> 0	2 <sup>0</sup> 16	16 <sup>0</sup> 11	17 <sup>0</sup> 19	23 <sup>0</sup> 13	5 <sup>0</sup> 27	S 4
M 5	7 34 33	24 <sup>0</sup> 16'10	21 <sup>0</sup> 51	8 <sup>0</sup> 19	2 <sup>0</sup> 12	5 <sup>0</sup> 21	13 <sup>0</sup> 13	21 <sup>0</sup> 49	15 <sup>0</sup> 25	28 <sup>0</sup> 1	2 <sup>0</sup> 18	16 <sup>0</sup> 12	17 <sup>0</sup> 16	23 <sup>0</sup> 20	5 <sup>0</sup> 29	M 5
T 6	7 38 29	25 <sup>0</sup> 17'13	5 <sup>0</sup> 58	9 <sup>0</sup> 57	3 <sup>0</sup> 24	5 <sup>0</sup> 24	13 <sup>0</sup> 27	21 <sup>0</sup> 44	15 <sup>0</sup> 23	28 <sup>0</sup> 2	2 <sup>0</sup> 20	16 <sup>0</sup> 13	17 <sup>0</sup> 12	23 <sup>0</sup> 27	5 <sup>0</sup> 30	T 6
W 7	7 42 26	26 <sup>0</sup> 18'16	20 <sup>0</sup> 8	11 <sup>0</sup> 33	4 <sup>0</sup> 36	5 <sup>0</sup> 28	13 <sup>0</sup> 41	21 <sup>0</sup> 39	15 <sup>0</sup> 20	28 <sup>0</sup> 3	2 <sup>0</sup> 22	16 <sup>0</sup> R14	17 <sup>0</sup> 9	23 <sup>0</sup> 33	5 <sup>0</sup> 32	W 7
T 8	7 46 22	27 <sup>0</sup> 19'18	4 <sup>0</sup> 19	13 <sup>0</sup> 8	5 <sup>0</sup> 49	5 <sup>0</sup> 33	13 <sup>0</sup> 55	21 <sup>0</sup> 34	15 <sup>0</sup> 18	28 <sup>0</sup> 5	2 <sup>0</sup> 24	16 <sup>0</sup> 14	17 <sup>0</sup> 6	23 <sup>0</sup> 40	5 <sup>0</sup> 34	T 8
F 9	7 50 19	28 <sup>0</sup> 20'20	18 <sup>0</sup> 28	14 <sup>0</sup> 41	7 <sup>0</sup> 1	5 <sup>0</sup> 38	14 <sup>0</sup> 9	21 <sup>0</sup> 29	15 <sup>0</sup> 15	28 <sup>0</sup> 6	2 <sup>0</sup> 26	16 <sup>0</sup> 13	17 <sup>0</sup> 3	23 <sup>0</sup> 47	5 <sup>0</sup> 36	F 9
S 10	7 54 15	29 <sup>0</sup> 21'21	2 <sup>0</sup> 34	16 <sup>0</sup> 11	8 <sup>0</sup> 13	5 <sup>0</sup> 44	14 <sup>0</sup> 22	21 <sup>0</sup> 24	15 <sup>0</sup> 13	28 <sup>0</sup> 7	2 <sup>0</sup> 28	16 <sup>0</sup> 12	17 <sup>0</sup> 0	23 <sup>0</sup> 54	5 <sup>0</sup> 37	S 10
S 11	7 58 12	0 <sup>0</sup> 22'22	16 <sup>0</sup> 33	17 <sup>0</sup> 39	9 <sup>0</sup> 25	5 <sup>0</sup> 51	14 <sup>0</sup> 36	21 <sup>0</sup> 20	15 <sup>0</sup> 10	28 <sup>0</sup> 9	2 <sup>0</sup> 29	16 <sup>0</sup> 10	16 <sup>0</sup> 57	24 <sup>0</sup> 0	5 <sup>0</sup> 39	S 11
M 12	8 2 8	1 <sup>0</sup> 23'22	0 <sup>0</sup> 24	19 <sup>0</sup> 3	10 <sup>0</sup> 37	5 <sup>0</sup> 58	14 <sup>0</sup> 50	21 <sup>0</sup> 15	15 <sup>0</sup> 8	28 <sup>0</sup> 10	2 <sup>0</sup> 31	16 <sup>0</sup> 7	16 <sup>0</sup> 53	24 <sup>0</sup> 7	5 <sup>0</sup> 41	M 12
T 13	8 6 5	2 <sup>0</sup> 24'21	14 <sup>0</sup> 2	20 <sup>0</sup> 22	11 <sup>0</sup> 49	6 <sup>0</sup> 6	15 <sup>0</sup> 4	21 <sup>0</sup> 10	15 <sup>0</sup> 5	28 <sup>0</sup> 12	2 <sup>0</sup> 33	16 <sup>0</sup> 5	16 <sup>0</sup> 50	24 <sup>0</sup> 14	5 <sup>0</sup> 43	T 13
W 14	8 10 2	3 <sup>0</sup> 25'20	27 <sup>0</sup> 27	21 <sup>0</sup> 36	13 <sup>0</sup> 0	6 <sup>0</sup> 15	15 <sup>0</sup> 17	21 <sup>0</sup> 5	15 <sup>0</sup> 3	28 <sup>0</sup> 13	2 <sup>0</sup> 35	16 <sup>0</sup> 4	16 <sup>0</sup> 47	24 <sup>0</sup> 20	5 <sup>0</sup> 46	W 14
T 15	8 13 58	4 <sup>0</sup> 26'17	10 <sup>0</sup> 36	22 <sup>0</sup> 45	14 <sup>0</sup> 12	6 <sup>0</sup> 24	15 <sup>0</sup> 31	21 <sup>0</sup> 0	15 <sup>0</sup> 0	28 <sup>0</sup> 14	2 <sup>0</sup> 37	16 <sup>0</sup> D 4	16 <sup>0</sup> 44	24 <sup>0</sup> 27	5 <sup>0</sup> 48	T 15
F 16	8 17 55	5 <sup>0</sup> 27'13	23 <sup>0</sup> 28	23 <sup>0</sup> 48	15 <sup>0</sup> 23	6 <sup>0</sup> 34	15 <sup>0</sup> 45	20 <sup>0</sup> 56	14 <sup>0</sup> 58	28 <sup>0</sup> 16	2 <sup>0</sup> 39	16 <sup>0</sup> 4	16 <sup>0</sup> 41	24 <sup>0</sup> 34	5 <sup>0</sup> 50	F 16
S 17	8 21 51	6 <sup>0</sup> 28'08	6 <sup>0</sup> 3	24 <sup>0</sup> 43	16 <sup>0</sup> 35	6 <sup>0</sup> 45	15 <sup>0</sup> 58	20 <sup>0</sup> 51	14 <sup>0</sup> 55	28 <sup>0</sup> 18	2 <sup>0</sup> 41	16 <sup>0</sup> 4	16 <sup>0</sup> 38	24 <sup>0</sup> 41	5 <sup>0</sup> 52	S 17
S 18	8 25 48	7 <sup>0</sup> 29'02	18 <sup>0</sup> 24	25 <sup>0</sup> 30	17 <sup>0</sup> 46	6 <sup>0</sup> 56	16 <sup>0</sup> 12	20 <sup>0</sup> 46	14 <sup>0</sup> 53	28 <sup>0</sup> 19	2 <sup>0</sup> 43	16 <sup>0</sup> 5	16 <sup>0</sup> 34	24 <sup>0</sup> 47	5 <sup>0</sup> 54	S 18
M 19	8 29 44	8 <sup>0</sup> 29'54	0 <sup>0</sup> Y32	26 <sup>0</sup> 8	18 <sup>0</sup> 57	7 <sup>0</sup> 7	16 <sup>0</sup> 25	20 <sup>0</sup> 42	14 <sup>0</sup> 51	28 <sup>0</sup> 21	2 <sup>0</sup> 44	16 <sup>0</sup> 6	16 <sup>0</sup> 31	24 <sup>0</sup> 54	5 <sup>0</sup> 57	M 19
T 20	8 33 41	9 <sup>0</sup> 30'45	12 <sup>0</sup> 30	26 <sup>0</sup> 36	20 <sup>0</sup> 9	7 <sup>0</sup> 20	16 <sup>0</sup> 39	20 <sup>0</sup> 37	14 <sup>0</sup> 48	28 <sup>0</sup> 22	2 <sup>0</sup> 46	16 <sup>0</sup> 7	16 <sup>0</sup> 28	25 <sup>0</sup> 1	5 <sup>0</sup> 59	T 20
W 21	8 37 37	10 <sup>0</sup> 31'34	24 <sup>0</sup> 23	26 <sup>0</sup> 55	21 <sup>0</sup> 20	7 <sup>0</sup> 33	16 <sup>0</sup> 52	20 <sup>0</sup> 33	14 <sup>0</sup> 46	28 <sup>0</sup> 24	2 <sup>0</sup> 48	16 <sup>0</sup> 7	16 <sup>0</sup> 25	25 <sup>0</sup> 7	6 <sup>0</sup> 1	W 21
T 22	8 41 34	11 <sup>0</sup> 32'22	6 <sup>0</sup> 15	27 <sup>0</sup> R 3	22 <sup>0</sup> 30	7 <sup>0</sup> 46	17 <sup>0</sup> 6	20 <sup>0</sup> 28	14 <sup>0</sup> 44	28 <sup>0</sup> 26	2 <sup>0</sup> 50	16 <sup>0</sup> 7	16 <sup>0</sup> 22	25 <sup>0</sup> 14	6 <sup>0</sup> 4	T 22
F 23	8 45 31	12 <sup>0</sup> 33'09	18 <sup>0</sup> 11	27 <sup>0</sup> 0	23 <sup>0</sup> 41	8 <sup>0</sup> 0	17 <sup>0</sup> 19	20 <sup>0</sup> 24	14 <sup>0</sup> 42	28 <sup>0</sup> 27	2 <sup>0</sup> 52	16 <sup>0</sup> R 7	16 <sup>0</sup> 18	25 <sup>0</sup> 21	6 <sup>0</sup> 6	F 23
S 24	8 49 27	13 <sup>0</sup> 33'53	0 <sup>0</sup> II15	26 <sup>0</sup> 46	24 <sup>0</sup> 52	8 <sup>0</sup> 14	17 <sup>0</sup> 32	20 <sup>0</sup> 19	14 <sup>0</sup> 39	28 <sup>0</sup> 29	2 <sup>0</sup> 54	16 <sup>0</sup> 7	16 <sup>0</sup> 15	25 <sup>0</sup> 28	6 <sup>0</sup> 9	S 24
S 25	8 53 24	14 <sup>0</sup> 34'37	12 <sup>0</sup> 31	26 <sup>0</sup> 21	26 <sup>0</sup> 2	8 <sup>0</sup> 29	17 <sup>0</sup> 46	20 <sup>0</sup> 15	14 <sup>0</sup> 37	28 <sup>0</sup> 31	2 <sup>0</sup> 56	16 <sup>0</sup> 7	16 <sup>0</sup> 12	25 <sup>0</sup> 34	6 <sup>0</sup> 11	S 25
M 26	8 57 20	15 <sup>0</sup> 35'18	25 <sup>0</sup> 5	25 <sup>0</sup> 47	27 <sup>0</sup> 13	8 <sup>0</sup> 44	17 <sup>0</sup> 59	20 <sup>0</sup> 11	14 <sup>0</sup> 35	28 <sup>0</sup> 33	2 <sup>0</sup> 57	16 <sup>0</sup> D 7	16 <sup>0</sup> 9	25 <sup>0</sup> 41	6 <sup>0</sup> 14	M 26
T 27	9 1 17	16 <sup>0</sup> 35'58	7 <sup>0</sup> 58	25 <sup>0</sup> 3	28 <sup>0</sup> 23	9 <sup>0</sup> 0	18 <sup>0</sup> 12	20 <sup>0</sup> 7	14 <sup>0</sup> 33	28 <sup>0</sup> 34	2 <sup>0</sup> 59	16 <sup>0</sup> 7	16 <sup>0</sup> 6	25 <sup>0</sup> 48	6 <sup>0</sup> 17	T 27
W 28	9 5 13	17 <sup>0</sup> 36'37	21 <sup>0</sup> 13	24 <sup>0</sup> 11	29 <sup>0</sup> 33	9 <sup>0</sup> 16	18 <sup>0</sup> 25	20 <sup>0</sup> 3	14 <sup>0</sup> 31	28 <sup>0</sup> 36	3 <sup>0</sup> 1	16 <sup>0</sup> 7	16 <sup>0</sup> 3	25 <sup>0</sup> 54	6 <sup>0</sup> 19	W 28
T 29	9 9 10	18 <sup>0</sup> 37'14	4 <sup>0</sup> 49	23 <sup>0</sup> 12	0 <sup>0</sup> Y43	9 <sup>0</sup> 33	18 <sup>0</sup> 38	19 <sup>0</sup> 59	14 <sup>0</sup> 29	28 <sup>0</sup> 38	3 <sup>0</sup> 3	16 <sup>0</sup> 7	15 <sup>0</sup> 59	26 <sup>0</sup> 1	6 <sup>0</sup> 22	T 29
F 30	9 13 6	19 <sup>0</sup> 37'49	18 <sup>0</sup> 46	22 <sup>0</sup> 8	1 <sup>0</sup> 53	9 <sup>0</sup> 50	18 <sup>0</sup> 52	19 <sup>0</sup> 55	14 <sup>0</sup> 27	28 <sup>0</sup> 40	3 <sup>0</sup> 5	16 <sup>0</sup> R 7	15 <sup>0</sup> 56	26 <sup>0</sup> 8	6 <sup>0</sup> 25	F 30
S 31	9 17 3	20 <sup>0</sup> 38'23	3 <sup>0</sup> 0	21 <sup>0</sup> 1	3 <sup>0</sup> Y 3	10 <sup>0</sup> II 8	19 <sup>0</sup> 3 5	19 <sup>0</sup> 51	14 <sup>0</sup> 25	28 <sup>0</sup> 42	3 <sup>0</sup> 6	16 <sup>0</sup> 7	15 <sup>0</sup> 53	26 <sup>0</sup> Y15	6 <sup>0</sup> Y28	S 31

Delta T = 215.40 sec

Julian Calendar 1 Jan. 1534 == Greg. Calendar 11 Jan. 1534

FEBRUARY 1534 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	9 21 0	21 <sup>0</sup> 38'55	17 <sup>0</sup> 26	19 <sup>0</sup> R53	4 <sup>0</sup> Y12	10 <sup>0</sup> II26	19 <sup>0</sup> 317	19 <sup>0</sup> R47	14 <sup>0</sup> R23	28 <sup>0</sup> 44	3 <sup>0</sup> 8	16 <sup>0</sup> R 7	15 <sup>0</sup> 50	26 <sup>0</sup> Y21	6 <sup>0</sup> Y31	S 1
M 2	9 24 56	22 <sup>0</sup> 39'26	1 <sup>0</sup> 58	18 <sup>0</sup> 45	5 <sup>0</sup> 21	10 <sup>0</sup> 44	19 <sup>0</sup> 30	19 <sup>0</sup> 43	14 <sup>0</sup> 21	28 <sup>0</sup> 45	3 <sup>0</sup> 10	16 <sup>0</sup> 6	15 <sup>0</sup> 47	26 <sup>0</sup> 28	6 <sup>0</sup> 33	M 2
T 3	9 28 53	23 <sup>0</sup> 39'55	16 <sup>0</sup> 31	17 <sup>0</sup> 39	6 <sup>0</sup> 31	11 <sup>0</sup> 3	19 <sup>0</sup> 43	19 <sup>0</sup> 39	14 <sup>0</sup> 19	28 <sup>0</sup> 47	3 <sup>0</sup> 12	16 <sup>0</sup> 5	15 <sup>0</sup> 44	26 <sup>0</sup> 35	6 <sup>0</sup> 36	T 3
W 4	9 32 49	24 <sup>0</sup> 40'23	0 <sup>0</sup> III59	16 <sup>0</sup> 36	7 <sup>0</sup> 40	11 <sup>0</sup> 22	19 <sup>0</sup> 56	19 <sup>0</sup> 36	14 <sup>0</sup> 17	28 <sup>0</sup> 49	3 <sup>0</sup> 14	16 <sup>0</sup> 4	15 <sup>0</sup> 40	26 <sup>0</sup> 41	6 <sup>0</sup> 39	W 4
T 5	9 36 46	25 <sup>0</sup> 40'50	15 <sup>0</sup> 18	15 <sup>0</sup> 38	8 <sup>0</sup> 49	11 <sup>0</sup> 42	20 <sup>0</sup> 9	19 <sup>0</sup> 32	14 <sup>0</sup> 16	28 <sup>0</sup> 51	3 <sup>0</sup> 15	16 <sup>0</sup> 4	15 <sup>0</sup> 37	26 <sup>0</sup> 48	6 <sup>0</sup> 42	T 5
F 6	9 40 42	26 <sup>0</sup> 41'15	29 <sup>0</sup> 25	14 <sup>0</sup> 46	9 <sup>0</sup> 57	12 <sup>0</sup> 2	20 <sup>0</sup> 21	19 <sup>0</sup> 29	14 <sup>0</sup> 14	28 <sup>0</sup> 53	3 <sup>0</sup> 17	16 <sup>0</sup> D 4	15 <sup>0</sup> 34	26 <sup>0</sup> 55	6 <sup>0</sup> 45	F 6
S 7	9 44 39	27 <sup>0</sup> 41'39	13 <sup>0</sup> 19	14 <sup>0</sup> 0	11 <sup>0</sup> 6	12 <sup>0</sup> 22	20 <sup>0</sup> 34	19 <sup>0</sup> 25	14 <sup>0</sup> 12	28 <sup>0</sup> 55	3 <sup>0</sup> 19	16 <sup>0</sup> 4	15 <sup>0</sup> 31	27 <sup>0</sup> 2	6 <sup>0</sup> 48	S 7
S 8	9 48 35	28 <sup>0</sup> 42'02	26 <sup>0</sup> 59	13 <sup>0</sup> 22	12 <sup>0</sup> 14	12 <sup>0</sup> 43	20 <sup>0</sup> 46	19 <sup>0</sup> 22	14 <sup>0</sup> 11	28 <sup>0</sup> 57	3 <sup>0</sup> 21	16 <sup>0</sup> 5	15 <sup>0</sup> 28	27 <sup>0</sup> 8	6 <sup>0</sup> 51	S 8
M 9	9 52 32	29 <sup>0</sup> 42'23	10 <sup>0</sup> 34	12 <sup>0</sup> 50	13 <sup>0</sup> 22	13 <sup>0</sup> 4	20 <sup>0</sup> 59	19 <sup>0</sup> 19	14 <sup>0</sup> 9	28 <sup>0</sup> 59	3 <sup>0</sup> 22	16 <sup>0</sup> 6	15 <sup>0</sup> 24	27 <sup>0</sup> 15	6 <sup>0</sup> 55	M 9
T 10	9 56 29	0 <sup>0</sup> 42'43	23 <sup>0</sup> 36	12 <sup>0</sup> 26	14 <sup>0</sup> 30	13 <sup>0</sup> 25	21 <sup>0</sup> 11	19 <sup>0</sup> 16	14 <sup>0</sup> 7	29 <sup>0</sup> 1	3 <sup>0</sup> 24	16 <sup>0</sup> 7	15 <sup>0</sup> 21	27 <sup>0</sup> 22	6 <sup>0</sup> 58	T 10
W 11	10 0 25	1 <sup>0</sup> 43'01	6 <sup>0</sup> 35	12 <sup>0</sup> 9	15 <sup>0</sup> 38	13 <sup>0</sup> 47	21 <sup>0</sup> 24	19 <sup>0</sup> 13	14 <sup>0</sup> 6	29 <sup>0</sup> 3	3 <sup>0</sup> 26	16 <sup>0</sup> 8	15 <sup>0</sup> 18	27 <sup>0</sup> 28	7 <sup>0</sup> 1	W 11
T 12	10 4 22	2 <sup>0</sup> 43'17	19 <sup>0</sup> 22	11 <sup>0</sup> 59	16 <sup>0</sup> 46	14 <sup>0</sup> 9	21 <sup>0</sup> 36	19 <sup>0</sup> 10	14 <sup>0</sup> 4	29 <sup>0</sup> 6	3 <sup>0</sup> 27	16 <sup>0</sup> R 8	15 <sup>0</sup> 15	27 <sup>0</sup> 35	7 <sup>0</sup> 4	T 12
F 13	10 8 18	3 <sup>0</sup> 43'32	1 <sup>0</sup> 56	11 <sup>0</sup> D56	17 <sup>0</sup> 53	14 <sup>0</sup> 31	21 <sup>0</sup> 48	19 <sup>0</sup> 7	14 <sup>0</sup> 3	29 <sup>0</sup> 8	3 <sup>0</sup> 29	16 <sup>0</sup> 8	15 <sup>0</sup> 12	27 <sup>0</sup> 42	7 <sup>0</sup> 7	F 13
S 14	10 12 15	4 <sup>0</sup> 43'45	14 <sup>0</sup> 19	11 <sup>0</sup> 59	19 <sup>0</sup> 1	14 <sup>0</sup> 54	22 <sup>0</sup> 0	19 <sup>0</sup> 4	14 <sup>0</sup> 2	29 <sup>0</sup> 10	3 <sup>0</sup> 31	16 <sup>0</sup> 6	15 <sup>0</sup> 9	27 <sup>0</sup> 49	7 <sup>0</sup> 11	S 14
S 15	10 16 11	5 <sup>0</sup> 43'55	26 <sup>0</sup> 31	12 <sup>0</sup> 9	20 <sup>0</sup> 8	15 <sup>0</sup> 17	22 <sup>0</sup> 12	19 <sup>0</sup> 2	14 <sup>0</sup> 0	29 <sup>0</sup> 12	3 <sup>0</sup> 32	16 <sup>0</sup> 3	15 <sup>0</sup> 5	27 <sup>0</sup> 55	7 <sup>0</sup> 14	S 15
M 16	10 20 8	6 <sup>0</sup> 44'04	8 <sup>0</sup> Y35	12 <sup>0</sup> 25	21 <sup>0</sup> 14	15 <sup>0</sup> 40	22 <sup>0</sup> 24	18 <sup>0</sup> 59	13 <sup>0</sup> 59	29 <sup>0</sup> 14	3 <sup>0</sup> 34	16 <sup>0</sup> 0	15 <sup>0</sup> 2	28 <sup>0</sup> 2	7 <sup>0</sup> 17	M 16
T 17	10 24 4	7 <sup>0</sup> 44'11	20 <sup>0</sup> 32	12 <sup>0</sup> 46	22 <sup>0</sup> 21	16 <sup>0</sup> 3	22 <sup>0</sup> 36	18 <sup>0</sup> 57	13 <sup>0</sup> 58	29 <sup>0</sup> 16	3 <sup>0</sup> 36	15 <sup>0</sup> 56	14 <sup>0</sup> 59	28 <sup>0</sup> 9	7 <sup>0</sup> 21	T 17
W 18	10 28 1	8 <sup>0</sup> 44'16	2 <sup>0</sup> 24	13 <sup>0</sup> 12	23 <sup>0</sup> 27	16 <sup>0</sup> 27	22 <sup>0</sup> 48	18 <sup>0</sup> 55	13 <sup>0</sup> 56	29 <sup>0</sup> 18	3 <sup>0</sup> 37	15 <sup>0</sup> 53	14 <sup>0</sup> 56	28 <sup>0</sup> 15	7 <sup>0</sup> 24	W 18
T 19	10 31 57	9 <sup>0</sup> 44'19	14 <sup>0</sup> 16	13 <sup>0</sup> 43	24 <sup>0</sup> 33	16 <sup>0</sup> 51	23 <sup>0</sup> 0	18 <sup>0</sup> 52	13 <sup>0</sup> 55	29 <sup>0</sup> 20	3 <sup>0</sup> 39	15 <sup>0</sup> 50	14 <sup>0</sup> 53	28 <sup>0</sup> 22	7 <sup>0</sup> 27	T 19
F 20	10 35 54	10 <sup>0</sup> 44'20	26 <sup>0</sup> 10	14 <sup>0</sup> 18	25 <sup>0</sup> 39	17 <sup>0</sup> 16	23 <sup>0</sup> 11	18 <sup>0</sup> 50	13 <sup>0</sup> 54	29 <sup>0</sup> 23	3 <sup>0</sup> 40	15 <sup>0</sup> 47	14 <sup>0</sup> 50	28 <sup>0</sup> 29	7 <sup>0</sup> 31	F 20
S 21	10 39 51	11 <sup>0</sup> 44'18	8 <sup>0</sup> II2	14 <sup>0</sup> 58	26 <sup>0</sup> 45	17 <sup>0</sup> 40	23 <sup>0</sup> 23	18 <sup>0</sup> 48	13 <sup>0</sup> 53	29 <sup>0</sup> 25	3 <sup>0</sup> 42	15 <sup>0</sup> D47	14 <sup>0</sup> 46	28 <sup>0</sup> 36	7 <sup>0</sup> 34	S 21
S 22	10 43 47	12 <sup>0</sup> 44'14	20 <sup>0</sup> 25	15 <sup>0</sup> 41	27 <sup>0</sup> 50	18 <sup>0</sup> 5	23 <sup>0</sup> 34	18 <sup>0</sup> 46	13 <sup>0</sup> 52	29 <sup>0</sup> 27	3 <sup>0</sup> 43	15 <sup>0</sup> 47	14 <sup>0</sup> 43	28 <sup>0</sup> 42	7 <sup>0</sup> 38	S 22
M 23	10 47 44	13 <sup>0</sup> 44'08	2 <sup>0</sup> 54	16 <sup>0</sup> 29	28 <sup>0</sup> 55	18 <sup>0</sup> 30	23 <sup>0</sup> 46	18 <sup>0</sup> 44	13 <sup>0</sup> 51	29 <sup>0</sup> 29	3 <sup>0</sup> 45	15 <sup>0</sup> 48	14 <sup>0</sup> 40	28 <sup>0</sup> 49	7 <sup>0</sup> 41	M 23
T 24	10 51 40	14 <sup>0</sup> 44'00	15 <sup>0</sup> 45	17 <sup>0</sup> 19	0 <sup>0</sup> 8	18 <sup>0</sup> 56	23 <sup>0</sup> 57	18 <sup>0</sup> 43	13 <sup>0</sup> 50	29 <sup>0</sup> 31	3 <sup>0</sup> 46	15 <sup>0</sup> 50	14 <sup>0</sup> 37	28 <sup>0</sup> 56	7 <sup>0</sup> 45	T 24
W 25	10 55 37	15 <sup>0</sup> 43'50	28 <sup>0</sup> 59	18 <sup>0</sup> 13	1 <sup>0</sup> 5	19 <sup>0</sup> 21	24 <sup>0</sup> 8	18 <sup>0</sup> 41	13 <sup>0</sup> 49	29 <sup>0</sup> 34	3 <sup>0</sup> 48	15 <sup>0</sup> 51	14 <sup>0</sup> 34	29 <sup>0</sup> 2	7 <sup>0</sup> 48	W 25
T 26	10 59 33	16 <sup>0</sup> 43'37	12 <sup>0</sup> 140	19 <sup>0</sup> 10	2 <sup>0</sup> 9	19 <sup>0</sup> 47	24 <sup>0</sup> 19	18 <sup>0</sup> 40	13 <sup>0</sup> 49	29 <sup>0</sup> 36	3 <sup>0</sup> 49	15 <sup>0</sup> R52	14 <sup>0</sup> 30	29 <sup>0</sup> 9	7 <sup>0</sup> 52	T 26
F 27	11 3 30	17 <sup>0</sup> 43'23	26 <sup>0</sup> 47	20 <sup>0</sup> 9	3 <sup>0</sup> 13	20 <sup>0</sup> 13	24 <sup>0</sup> 30	18 <sup>0</sup> 38	13 <sup>0</sup> 48	29 <sup>0</sup> 38	3 <sup>0</sup> 51	15 <sup>0</sup> 52	14 <sup>0</sup> 27	29 <sup>0</sup> 16	7 <sup>0</sup> 55	F 27
S 28	11 7 26	18 <sup>0</sup> 43'06	11 <sup>0</sup> 18	21 <sup>0</sup> 11	4 <sup>0</sup> 16	20 <sup>0</sup> II39	24 <sup>0</sup> 341	18 <sup>0</sup> 37	13 <sup>0</sup> 47	29 <sup>0</sup> 40	3 <sup>0</sup> 52	15 <sup>0</sup> 50	14 <sup>0</sup> 24	29 <sup>0</sup> Y23	7 <sup>0</sup> Y59	S 28

## ASTRODIENST EPHEMERIS for the year 1534

geocentric

MARCH 1534 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	11 11 23	19°42'46	26°7	22°16	5°20	21°6	24°52	18°R36	13°R47	29°42	3°54	15°R46	14°21	29°29	8°Y 2	S 1
M 2	11 15 20	20°42'25	11°6	23°23	6°23	21°32	25°3	18°35	13°46	29°45	3°55	15°41	14°18	29°36	8°6	M 2
T 3	11 19 16	21°42'02	26°7	24°32	7°25	21°59	25°14	18°34	13°45	29°47	3°56	15°36	14°15	29°43	8°9	T 3
W 4	11 23 13	22°41'37	11°0	25°43	8°28	22°26	25°24	18°33	13°45	29°49	3°58	15°31	14°11	29°49	8°13	W 4
T 5	11 27 9	23°41'11	25°37	26°57	9°30	22°53	25°35	18°32	13°44	29°51	3°59	15°27	14°8	29°56	8°17	T 5
F 6	11 31 6	24°40'43	9°55	28°12	10°31	23°21	25°45	18°32	13°44	29°54	4°0	15°24	14°5	0°8 3	8°20	F 6
S 7	11 35 2	25°40'13	23°51	29°29	11°32	23°49	25°55	18°31	13°44	29°56	4°2	15°D23	14°2	0°10	8°24	S 7
S 8	11 38 59	26°39'41	7°24	0°48	12°33	24°16	26°5	18°31	13°43	29°58	4°3	15°23	13°59	0°16	8°28	S 8
M 9	11 42 55	27°39'07	20°37	2°9	13°34	24°44	26°15	18°30	13°43	0°Y 1	4°4	15°25	13°55	0°23	8°31	M 9
T 10	11 46 52	28°38'32	3°32	3°31	14°34	25°12	26°25	18°30	13°43	0°3	4°6	15°26	13°52	0°30	8°35	T 10
W 11	11 50 49	29°37'55	16°12	4°55	15°33	25°41	26°35	18°D30	13°43	0°5	4°7	15°R27	13°49	0°36	8°39	W 11
T 12	11 54 45	0°Y37'16	28°40	6°21	16°32	26°9	26°45	18°30	13°43	0°7	4°8	15°26	13°46	0°43	8°42	T 12
F 13	11 58 42	1°36'35	10°57	7°48	17°31	26°38	26°54	18°30	13°D43	0°10	4°9	15°22	13°43	0°50	8°46	F 13
S 14	12 2 38	2°35'51	23°7	9°17	18°30	27°7	27°4	18°31	13°43	0°12	4°10	15°17	13°40	0°57	8°50	S 14
S 15	12 6 35	3°35'06	5°Y 9	10°47	19°27	27°36	27°13	18°31	13°43	0°14	4°11	15°10	13°36	1°3	8°54	S 15
M 16	12 10 31	4°34'19	17°7	12°19	20°25	28°5	27°22	18°32	13°43	0°16	4°12	15°0	13°33	1°10	8°57	M 16
T 17	12 14 28	5°33'30	29°1	13°52	21°21	28°34	27°31	18°32	13°43	0°19	4°14	14°51	13°30	1°17	9°1	T 17
W 18	12 18 24	6°32'38	10°52	15°27	22°18	29°4	27°40	18°33	13°44	0°21	4°15	14°41	13°27	1°24	9°5	W 18
T 19	12 22 21	7°31'44	22°44	17°3	23°13	29°33	27°49	18°34	13°44	0°23	4°16	14°32	13°24	1°30	9°9	T 19
F 20	12 26 18	8°30'49	4°II39	18°41	24°9	0°3	27°58	18°35	13°44	0°25	4°17	14°24	13°21	1°37	9°12	F 20
S 21	12 30 14	9°29'50	16°39	20°20	25°3	0°33	28°7	18°36	13°45	0°28	4°18	14°19	13°17	1°44	9°16	S 21
S 22	12 34 11	10°28'50	28°50	22°1	25°57	1°3	28°15	18°37	13°45	0°30	4°19	14°17	13°14	1°50	9°20	S 22
M 23	12 38 7	11°27'47	11°515	23°43	26°51	1°33	28°23	18°38	13°46	0°32	4°19	14°D16	13°11	1°57	9°23	M 23
T 24	12 42 4	12°26'42	24°0	25°26	27°43	2°3	28°32	18°39	13°46	0°34	4°20	14°16	13°8	2°4	9°27	T 24
W 25	12 46 0	13°25'35	7°8	27°11	28°35	2°34	28°40	18°41	13°47	0°37	4°21	14°17	13°5	2°11	9°31	W 25
T 26	12 49 57	14°24'25	20°43	28°58	29°27	3°4	28°48	18°43	13°48	0°39	4°22	14°R17	13°1	2°17	9°35	T 26
F 27	12 53 53	15°23'13	4°II48	0°Y46	0°II17	3°35	28°55	18°44	13°48	0°41	4°23	14°15	12°58	2°24	9°38	F 27
S 28	12 57 50	16°21'59	19°21	2°36	1°7	4°5	29°3	18°46	13°49	0°43	4°24	14°11	12°55	2°31	9°42	S 28
S 29	13 1 46	17°20'42	4°II17	4°27	1°56	4°36	29°11	18°48	13°50	0°46	4°24	14°5	12°52	2°37	9°46	S 29
M 30	13 5 43	18°19'24	19°30	6°19	2°44	5°7	29°18	18°50	13°51	0°48	4°25	13°56	12°49	2°44	9°50	M 30
T 31	13 9 40	19°Y18'03	4°II49	8°Y14	3°II32	5°38	29°325	18°52	13°52	0°Y50	4°26	13°47	12°46	2°51	9°Y53	T 31

Delta T = 215.04 sec

Julian Calendar 1 March 1534 == Greg. Calendar 11 March 1534

APRIL 1534 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	13 13 36	20°Y16'41	20°II1	10°Y 9	4°II18	6°510	29°332	18°54	13°53	0°Y52	4°27	13°R37	12°42	2°58	9°Y57	W 1
T 2	13 17 33	21°15'16	4°Y58	12°7	5°4	6°41	29°39	18°57	13°54	0°54	4°27	13°D29	12°39	3°4	10°1	T 2
F 3	13 21 29	22°13'51	19°31	14°5	5°48	7°12	29°46	18°59	13°55	0°56	4°28	13°23	12°36	3°11	10°4	F 3
S 4	13 25 26	23°12'23	3°337	16°6	6°32	7°44	29°53	19°2	13°56	0°59	4°29	13°19	12°33	3°18	10°8	S 4
S 5	13 29 22	24°10'54	17°15	18°7	7°15	8°15	29°59	19°4	13°57	1°1	4°29	13°18	12°30	3°24	10°12	S 5
M 6	13 33 19	25°9'23	0°27	20°10	7°56	8°47	0°5	19°7	13°59	1°3	4°30	13°D18	12°26	3°31	10°15	M 6
T 7	13 37 15	26°7'51	13°17	22°15	8°37	9°19	0°12	19°10	14°0	1°5	4°30	13°R18	12°23	3°38	10°19	T 7
W 8	13 41 12	27°6'17	25°48	24°20	9°17	9°51	0°18	19°13	14°1	1°7	4°31	13°17	12°20	3°45	10°23	W 8
T 9	13 45 9	28°4'41	8°Y 5	26°27	9°55	10°23	0°23	19°16	14°3	1°9	4°31	13°15	12°17	3°51	10°26	T 9
F 10	13 49 5	29°3'04	20°11	28°34	10°32	10°55	0°29	19°19	14°4	1°11	4°32	13°10	12°14	3°58	10°30	F 10
S 11	13 53 2	0°8 1'24	2°Y11	0°843	11°8	11°27	0°35	19°22	14°6	1°13	4°32	13°2	12°11	4°5	10°33	S 11
S 12	13 56 58	0°59'44	14°6	2°51	11°42	11°59	0°40	19°25	14°7	1°15	4°33	12°51	12°7	4°12	10°37	S 12
M 13	14 0 55	1°58'01	25°59	5°0	12°15	12°31	0°45	19°29	14°9	1°17	4°33	12°38	12°4	4°18	10°40	M 13
T 14	14 4 51	2°56'17	7°51	7°10	12°47	13°4	0°50	19°32	14°11	1°19	4°33	12°24	12°1	4°25	10°44	T 14
W 15	14 8 48	3°54'30	19°43	9°19	13°17	13°36	0°55	19°36	14°12	1°21	4°34	12°10	11°58	4°32	10°47	W 15
T 16	14 12 44	4°52'43	1°II38	11°27	13°46	14°9	1°0	19°39	14°14	1°23	4°34	11°57	11°55	4°38	10°51	T 16
F 17	14 16 41	5°50'53	13°36	13°35	14°13	14°42	1°4	19°43	14°16	1°25	4°34	11°47	11°52	4°45	10°54	F 17
S 18	14 20 38	6°49'01	25°39	15°41	14°39	15°14	1°9	19°47	14°18	1°27	4°34	11°39	11°48	4°52	10°58	S 18
S 19	14 24 34	7°47'08	7°52	17°46	15°3	15°47	1°13	19°51	14°19	1°29	4°35	11°33	11°45	4°59	11°1	S 19
M 20	14 28 31	8°45'12	20°18	19°50	15°25	16°20	1°17	19°55	14°21	1°31	4°35	11°31	11°42	5°5	11°5	M 20
T 21	14 32 27	9°43'15	3°8	21°51	15°45	16°53	1°21	19°59	14°23	1°33	4°35	11°30	11°39	5°12	11°8	T 21
W 22	14 36 24	10°41'15	16°3	23°51	16°3	17°26	1°24	20°3	14°25	1°35	4°35	11°30	11°36	5°19	11°12	W 22
T 23	14 40 20	11°39'14	29°31	25°47	16°20	17°59	1°28	20°8	14°27	1°37	4°35	11°29	11°32	5°25	11°15	T 23
F 24	14 44 17	12°37'11	13°II27	27°42	16°34	18°33	1°31	20°12	14°30	1°38	4°35	11°27	11°29	5°32	11°18	F 24
S 25	14 48 13	13°35'06	27°51	29°33	16°47	19°6	1°34	20°17	14°32	1°40	4°35	11°23	11°26	5°39	11°21	S 25
S 26	14 52 10	14°32'59	12°40	1°II22	16°57	19°39	1°37	20°21	14°34	1°42	4°R35	11°16	11°23	5°46	11°25	S 26
M 27	14 56 7	15°30'50	27°49	3°7	17°5	20°13	1°40	20°26	14°36	1°44	4°35	11°6	11°20	5°52	11°28	M 27
T 28	15 0 3	16°28'40	13°II8	4°49	17°11	20°46	1°43	20°31	14°38	1°46	4°35	10°55	11°17	5°59	11°31	T 28
W 29	15 4 0	17°26'28	28°25	6°28	17°14	21°20	1°45	20°35	14°41	1°47	4°35	10°45	11°13	6°6	11°34	W 29
T 30	15 7 56	18°24'15	13°Y31	8°II4	17°R15	21°53	1°47	20°40	14°43	1°Y49	4°35	10°43	11°10	6°13	11°Y38	T 30

Delta T = 214.85 sec

Julian Calendar

ASTRODIENST EPHEMERIS for the year 1534  
geocentric

MAY 1534 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	15 11 53	19♂22'01	28♂14	9♂36	17♂14	22♂27	1♂49	20♂45	14♂45	1♂51	4♂35	10♂28	11♂7	6♂19	11♂41	F 1
S 2	15 15 49	20°19'45	12♂30	11° 4	17♂10	23° 1	1°51	20°50	14°48	1°52	4♂35	10♂23	11° 4	6°26	11°44	S 2
S 3	15 19 46	21°17'29	26°16	12°30	17° 4	23°34	1°53	20°55	14°50	1°54	4°35	10°21	11° 1	6°33	11°47	S 3
M 4	15 23 42	22°15'11	9♂34	13°51	16°56	24° 8	1°54	21° 0	14°53	1°56	4°35	10°D21	10°58	6°39	11°50	M 4
T 5	15 27 39	23°12'52	22°26	15° 9	16°45	24°42	1°55	21° 6	14°55	1°57	4°34	10°R21	10°54	6°46	11°53	T 5
W 6	15 31 36	24°10'32	4♂57	16°23	16°32	25°16	1°57	21°11	14°58	1°59	4°34	10°20	10°51	6°53	11°56	W 6
T 7	15 35 32	25° 8'11	17°11	17°34	16°16	25°50	1°57	21°16	15° 1	2° 0	4°34	10°18	10°48	7° 0	11°59	T 7
F 8	15 39 29	26° 5'49	29°14	18°41	15°58	26°24	1°58	21°22	15° 3	2° 2	4°34	10°14	10°45	7° 6	12° 2	F 8
S 9	15 43 25	27° 3'26	11♂10	19°44	15°38	26°59	1°59	21°27	15° 6	2° 3	4°33	10° 7	10°42	7°13	12° 5	S 9
S 10	15 47 22	28° 1'01	23° 2	20°43	15°16	27°33	1°59	21°33	15° 9	2° 5	4°33	9°58	10°38	7°20	12° 8	S 10
M11	15 51 18	28°58'36	4♂53	21°38	14°51	28° 7	1°R59	21°39	15°11	2° 6	4°33	9°46	10°35	7°27	12°10	M11
T 12	15 55 15	29°56'10	16°45	22°29	14°24	28°41	1°59	21°44	15°14	2° 8	4°32	9°34	10°32	7°33	12°13	T 12
W13	15 59 11	0♂53'43	28°41	23°16	13°56	29°16	1°59	21°50	15°17	2° 9	4°32	9°21	10°29	7°40	12°16	W13
T 14	16 3 8	1°51'14	10♂14	23°58	13°25	29°50	1°58	21°56	15°20	2°10	4°31	9° 9	10°26	7°47	12°19	T 14
F 15	16 7 5	2°48'45	22°47	24°37	12°53	0♂25	1°58	22° 2	15°23	2°12	4°31	8°59	10°23	7°53	12°21	F 15
S 16	16 11 1	3°46'14	5♂0	25°11	12°20	0°59	1°57	22° 8	15°26	2°13	4°30	8°52	10°19	8° 0	12°24	S 16
S 17	16 14 58	4°43'43	17°22	25°40	11°45	1°34	1°56	22°14	15°29	2°14	4°30	8°48	10°16	8° 7	12°27	S 17
M18	16 18 54	5°41'10	29°55	26° 6	11°10	2° 9	1°55	22°20	15°32	2°16	4°29	8°45	10°13	8°14	12°29	M18
T 19	16 22 51	6°38'36	12♂43	26°26	10°33	2°44	1°53	22°26	15°35	2°17	4°29	8°D45	10°10	8°20	12°32	T 19
W20	16 26 47	7°36'00	25°48	26°42	9°56	3°18	1°52	22°33	15°38	2°18	4°28	8°46	10° 7	8°27	12°34	W20
T 21	16 30 44	8°33'24	9♂14	26°54	9°18	3°53	1°50	22°39	15°41	2°19	4°27	8°R46	10° 4	8°34	12°37	T 21
F 22	16 34 40	9°30'46	23° 2	27° 0	8°41	4°28	1°48	22°45	15°44	2°20	4°27	8°45	10° 0	8°40	12°39	F 22
S 23	16 38 37	10°28'07	7♂14	27°R 3	8° 3	5° 3	1°46	22°52	15°47	2°21	4°26	8°43	9°57	8°47	12°41	S 23
S 24	16 42 34	11°25'27	21°48	27° 0	7°26	5°38	1°44	22°58	15°50	2°22	4°25	8°38	9°54	8°54	12°44	S 24
M25	16 46 30	12°22'46	6♂14	26°54	6°49	6°13	1°41	23° 5	15°53	2°24	4°25	8°31	9°51	9° 1	12°46	M25
T 26	16 50 27	13°20'04	21°45	26°43	6°13	6°48	1°38	23°11	15°56	2°25	4°24	8°23	9°48	9° 7	12°48	T 26
W27	16 54 23	14°17'21	6♂50	26°28	5°39	7°23	1°35	23°18	16° 0	2°26	4°23	8°15	9°44	9°14	12°50	W27
T 28	16 58 20	15°14'38	21°48	26° 9	5° 5	7°59	1°32	23°24	16° 3	2°27	4°22	8° 8	9°41	9°21	12°52	T 28
F 29	17 2 16	16°11'54	6♂29	25°46	4°33	8°34	1°29	23°31	16° 6	2°27	4°22	8° 2	9°38	9°28	12°54	F 29
S 30	17 6 13	17° 9'09	20°46	25°21	4° 3	9° 9	1°26	23°38	16°10	2°28	4°21	7°59	9°35	9°34	12°57	S 30
S 31	17 10 9	18♂6'25	4♂36	24♂53	3♂34	9♂44	1♂22	23♂45	16♂13	2♂29	4♂20	7°D58	9♂32	9♂41	12♂59	S 31

Delta T = 214.66 sec

Julian Calendar 1 May 1534 == Greg. Calendar 11 May 1534

JUNE 1534 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	17 14 6	19♂3'39	17♂58	24°R22	3°R 7	10♂20	1°R18	23♂51	16♂16	2♂30	4°R19	7♂58	9♂29	9♂48	13♂1	M 1
T 2	17 18 3	20° 0'53	0♂55	23♂49	2♂43	10°55	1♂15	23°58	16°20	2°31	4♂18	7°59	9°25	9°54	13° 2	T 2
W 3	17 21 59	20°58'07	13°30	23°16	2°20	11°31	1°10	24° 5	16°23	2°32	4°17	8° 0	9°22	10° 1	13° 4	W 3
T 4	17 25 56	21°55'21	25°47	22°41	2° 0	12° 6	1° 6	24°12	16°26	2°32	4°16	8°R 1	9°19	10° 8	13° 6	T 4
F 5	17 29 52	22°52'35	7♂51	22° 7	1°42	12°42	1° 2	24°19	16°30	2°33	4°16	7°59	9°16	10°15	13° 8	F 5
S 6	17 33 49	23°49'48	19°47	21°33	1°27	13°17	0°57	24°26	16°33	2°34	4°15	7°56	9°13	10°21	13°10	S 6
S 7	17 37 45	24°47'02	1♂39	21° 0	1°14	13°53	0°52	24°33	16°37	2°34	4°14	7°51	9°10	10°28	13°11	S 7
M 8	17 41 42	25°44'15	13°31	20°29	1° 3	14°29	0°47	24°40	16°40	2°35	4°13	7°45	9° 6	10°35	13°13	M 8
T 9	17 45 38	26°41'28	25°26	20° 0	0°54	15° 4	0°42	24°47	16°44	2°36	4°12	7°38	9° 3	10°42	13°15	T 9
W10	17 49 35	27°38'41	7♂27	19°33	0°48	15°40	0°37	24°55	16°47	2°36	4°11	7°30	9° 0	10°48	13°16	W10
T 11	17 53 32	28°35'54	19°35	19°10	0°45	16°16	0°32	25° 2	16°51	2°37	4° 9	7°23	8°57	10°55	13°18	T 11
F 12	17 57 28	29°33'07	1♂52	18°50	0°D44	16°52	0°26	25° 9	16°54	2°37	4° 8	7°18	8°54	11° 2	13°19	F 12
S 13	18 1 25	0♂30'19	14°19	18°34	0°45	17°28	0°21	25°16	16°58	2°38	4° 7	7°14	8°50	11° 8	13°20	S 13
S 14	18 5 21	1°27'32	26°57	18°23	0°48	18° 4	0°15	25°24	17° 1	2°38	4° 6	7°12	8°47	11°15	13°22	S 14
M15	18 9 18	2°24'44	9♂46	18°15	0°54	18°40	0° 9	25°31	17° 5	2°39	4° 5	7°D11	8°44	11°22	13°23	M15
T 16	18 13 14	3°21'56	22°49	18°D13	1° 1	19°16	0° 3	25°38	17° 8	2°39	4° 4	7°12	8°41	11°29	13°24	T 16
W17	18 17 11	4°19'07	6♂6	18°15	1°11	19°52	29♂57	25°46	17°12	2°39	4° 3	7°14	8°38	11°35	13°25	W17
T 18	18 21 7	5°16'18	19°38	18°22	1°23	20°28	29°50	25°53	17°15	2°40	4° 2	7°15	8°35	11°42	13°26	T 18
F 19	18 25 4	6°13'29	3♂27	18°34	1°37	21° 5	29°44	26° 1	17°19	2°40	4° 0	7°R16	8°31	11°49	13°28	F 19
S 20	18 29 1	7°10'40	17°32	18°51	1°53	21°41	29°37	26° 8	17°23	2°40	3°59	7°15	8°28	11°55	13°29	S 20
S 21	18 32 57	8° 7'50	1♂53	19°14	2°11	22°17	29°31	26°16	17°26	2°40	3°58	7°14	8°25	12° 2	13°30	S 21
M22	18 36 54	9° 5'00	16°26	19°41	2°30	22°54	29°24	26°23	17°30	2°40	3°57	7°11	8°22	12° 9	13°30	M22
T 23	18 40 50	10° 2'11	1♂ 6	20°13	2°52	23°30	29°17	26°31	17°34	2°41	3°56	7° 8	8°19	12°16	13°31	T 23
W24	18 44 47	10°59'21	15°48	20°51	3°15	24° 6	29°10	26°38	17°37	2°41	3°54	7° 4	8°15	12°22	13°32	W24
T 25	18 48 43	11°56'31	0♂24	21°33	3°40	24°43	29° 3	26°46	17°41	2°41	3°53	7° 1	8°12	12°29	13°33	T 25
F 26	18 52 40	12°53'42	14°48	22°21	4° 6	25°19	28°56	26°54	17°44	2°41	3°52	6°58	8° 9	12°36	13°34	F 26
S 27	18 56 36	13°50'53	28°54	23°13	4°34	25°56	28°49	27° 1	17°48	2°R41	3°51	6°57	8° 6	12°43	13°34	S 27
S 28	19 0 33	14°48'04	12♂38	24°10	5° 3	26°32	28°42	27° 9	17°52	2°41	3°49	6°D57	8° 3	12°49	13°35	S 28
M29	19 4 30	15°45'15	25°59	25°12	5°34	27° 9	28°34	27°16	17°55	2°41	3°48	6°58	8° 0	12°56	13°35	M29
T 30	19 8 26	16♂42'27	8♂58	26♂19	6♂17	27♂46	28♂27	27♂24	17♂59	2♂41	3♂47	6♂59	7♂56	13♂3	13♂36	T 30

Delta T = 214.47 sec

Julian Calendar

## ASTRODIENST EPHEMERIS for the year 1534

geocentric

JULY 1534 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day	
W 1	19 12 23	17°39'40	21°35'	27°30'	6°40'	28°22'	28°R20	27°32'	18°3'	2°R40	3°R45	7°1'	7°53'	13°8'	9'	13°36'	W 1
T 2	19 16 19	18°36'53	3°55'	28°46'	7°15'	28°59'	28°12'	27°40'	18°6'	2°Y40	3°44'	7°2'	7°50'	13°16'	13°37'	T 2	
F 3	19 20 16	19°34'08	16°2'	0°56'	7°51'	29°36'	28°4'	27°47'	18°10'	2°40'	3°43'	7°R 2'	7°47'	13°23'	13°37'	F 3	
S 4	19 24 12	20°31'22	27°59'	1°31'	8°29'	0°13'	27°57'	27°55'	18°14'	2°40'	3°41'	7°2'	7°44'	13°30'	13°37'	S 4	
S 5	19 28 9	21°28'38	9°53'	3°0'	9°7'	0°50'	27°49'	28°3'	18°17'	2°40'	3°40'	7°1'	7°41'	13°36'	13°37'	S 5	
M 6	19 32 5	22°25'55	21°46'	4°33'	9°47'	1°27'	27°41'	28°10'	18°21'	2°39'	3°39'	7°0'	7°37'	13°43'	13°38'	M 6	
T 7	19 36 2	23°23'12	3°44'	6°11'	10°28'	2°4'	27°34'	28°18'	18°25'	2°39'	3°37'	6°58'	7°34'	13°50'	13°38'	T 7	
W 8	19 39 59	24°20'30	15°49'	7°52'	11°9'	2°41'	27°26'	28°26'	18°28'	2°39'	3°36'	6°56'	7°31'	13°57'	13°R38'	W 8	
T 9	19 43 55	25°17'49	28°5'	9°36'	11°52'	3°18'	27°18'	28°34'	18°32'	2°38'	3°35'	6°55'	7°28'	14°3'	13°38'	T 9	
F 10	19 47 52	26°15'09	10°34'	11°24'	12°35'	3°55'	27°10'	28°41'	18°36'	2°38'	3°33'	6°53'	7°25'	14°10'	13°38'	F 10	
S 11	19 51 48	27°12'30	23°17'	13°16'	13°20'	4°32'	27°3'	28°49'	18°39'	2°37'	3°32'	6°53'	7°21'	14°17'	13°37'	S 11	
S 12	19 55 45	28°9'51	6°14'	15°10'	14°5'	5°9'	26°55'	28°57'	18°43'	2°37'	3°31'	6°D52'	7°18'	14°23'	13°37'	S 12	
M13	19 59 41	29°7'13	19°26'	17°6'	14°52'	5°47'	26°47'	29°5'	18°47'	2°37'	3°29'	6°53'	7°15'	14°30'	13°37'	M13	
T 14	20 3 38	0°4'36	2°52'	19°5'	15°39'	6°24'	26°39'	29°13'	18°50'	2°36'	3°28'	6°53'	7°12'	14°37'	13°37'	T 14	
W15	20 7 35	1°2'00	16°30'	21°6'	16°26'	7°1'	26°32'	29°20'	18°54'	2°35'	3°27'	6°54'	7°9'	14°44'	13°36'	W15	
T 16	20 11 31	1°59'24	0°20'	23°8'	17°15'	7°39'	26°24'	29°28'	18°57'	2°35'	3°25'	6°54'	7°6'	14°50'	13°36'	T 16	
F 17	20 15 28	2°56'48	14°20'	25°11'	18°4'	8°16'	26°16'	29°36'	19°1'	2°34'	3°24'	6°54'	7°2'	14°57'	13°36'	F 17	
S 18	20 19 24	3°54'14	28°28'	27°15'	18°54'	8°54'	26°8'	29°44'	19°5'	2°34'	3°22'	6°R55'	6°59'	15°4'	13°35'	S 18	
S 19	20 23 21	4°51'40	12°42'	29°20'	19°45'	9°31'	26°1'	29°51'	19°8'	2°33'	3°21'	6°55'	6°56'	15°10'	13°34'	S 19	
M20	20 27 17	5°49'06	2°59'	1°25'	20°36'	10°9'	25°53'	29°59'	19°12'	2°32'	3°20'	6°54'	6°53'	15°17'	13°34'	M20	
T 21	20 31 14	6°46'34	11°17'	3°30'	21°28'	10°46'	25°46'	0°17'	19°15'	2°31'	3°18'	6°D54'	6°50'	15°24'	13°33'	T 21	
W22	20 35 10	7°44'02	25°32'	5°34'	22°21'	11°24'	25°38'	0°15'	19°19'	2°31'	3°17'	6°54'	6°47'	15°31'	13°32'	W22	
T 23	20 39 7	8°41'32	9°34'	7°38'	23°14'	12°2'	25°31'	0°22'	19°22'	2°30'	3°15'	6°55'	6°43'	15°37'	13°32'	T 23	
F 24	20 43 4	9°39'02	23°39'	9°41'	24°8'	12°39'	25°24'	0°30'	19°26'	2°29'	3°14'	6°55'	6°40'	15°44'	13°31'	F 24	
S 25	20 47 0	10°36'33	7°23'	11°44'	25°2'	13°17'	25°16'	0°38'	19°29'	2°28'	3°13'	6°R55'	6°37'	15°51'	13°30'	S 25	
S 26	20 50 57	11°34'05	20°52'	13°45'	25°57'	13°55'	25°9'	0°45'	19°33'	2°27'	3°11'	6°55'	6°34'	15°58'	13°29'	S 26	
M27	20 54 53	12°31'39	4°3'	15°46'	26°52'	14°33'	25°2'	0°53'	19°36'	2°26'	3°10'	6°54'	6°31'	16°4'	13°28'	M27	
T 28	20 58 50	13°29'13	16°55'	17°45'	27°48'	15°11'	24°55'	1°1'	19°40'	2°25'	3°9'	6°54'	6°27'	16°11'	13°27'	T 28	
W29	21 2 46	14°26'49	29°30'	19°43'	28°44'	15°49'	24°48'	1°8'	19°43'	2°24'	3°7'	6°53'	6°24'	16°18'	13°26'	W29	
T 30	21 6 43	15°24'27	11°50'	21°39'	29°41'	16°27'	24°41'	1°16'	19°46'	2°23'	3°6'	6°52'	6°21'	16°24'	13°25'	T 30	
F 31	21 10 39	16°22'06	23°57'	23°34'	0°38'	17°17'	24°34'	1°23'	19°50'	2°Y22'	3°5'	6°51'	6°18'	16°31'	13°24'	F 31	

Delta T = 214.28 sec

Julian Calendar 1 July 1534 == Greg. Calendar 11 July 1534

AUGUST 1534 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	21 14 36	17°19'47	5°56'	25°28'	1°36'	17°43'	24°R28	1°31'	19°53'	2°R21	3°R 3	6°R50	6°15	16°38	13°R22	S 1
S 2	21 18 32	18°17'29	17°50'	27°20'	2°34'	18°21'	24°21'	1°39'	19°56'	2°Y20	3°2	6°D50	6°12	16°45	13°Y21	S 2
M 3	21 22 29	19°15'13	29°43'	29°11'	3°33'	18°59'	24°15'	1°46'	20°0'	2°19	3°1	6°L50	6°8	16°51	13°20	M 3
T 4	21 26 26	20°12'58	11°42'	1°11'	4°32'	19°37'	24°9'	1°54'	20°3'	2°18	2°59	6°51	6°5	16°58	13°18	T 4
W 5	21 30 22	21°10'46	23°49'	2°49'	5°31'	20°15'	24°2'	2°1'	20°6'	2°17	2°58	6°52	6°2	17°5	13°17	W 5
T 6	21 34 19	22°8'35	6°9'	4°36'	6°31'	20°54'	23°56'	2°9'	20°10'	2°16	2°57	6°53	5°59	17°11	13°15	T 6
F 7	21 38 15	23°6'25	18°46'	6°21'	7°31'	21°32'	23°50'	2°16'	20°13'	2°15	2°55	6°54	5°56	17°18	13°14	F 7
S 8	21 42 12	24°4'18	1°42'	8°5'	8°32'	22°11'	23°45'	2°24'	20°16'	2°13	2°54	6°R55	5°53	17°25	13°12	S 8
S 9	21 46 8	25°2'12	14°57'	9°48'	9°33'	22°49'	23°39'	2°31'	20°19'	2°12	2°53	6°55	5°49	17°32	13°11	S 9
M10	21 50 5	26°0'07	28°32'	11°29'	10°34'	23°28'	23°34'	2°38'	20°22'	2°11	2°52	6°54	5°46	17°38	13°9	M10
T 11	21 54 1	26°58'04	12°24'	13°9'	11°35'	24°6'	23°28'	2°46'	20°25'	2°10	2°50	6°52	5°43	17°45	13°7	T 11
W12	21 57 58	27°56'02	26°30'	14°48'	12°37'	24°45'	23°23'	2°53'	20°29'	2°8	2°49	6°49	5°40	17°52	13°5	W12
T 13	22 1 55	28°54'02	10°46'	16°25'	13°39'	25°23'	23°18'	3°0'	20°32'	2°7	2°48	6°46	5°37	17°59	13°4	T 13
F 14	22 5 51	29°52'03	25°7'	18°2'	14°42'	26°2'	23°13'	3°7'	20°35'	2°6	2°47	6°43	5°33	18°5	13°2	F 14
S 15	22 9 48	0°50'06	9°28'	19°36'	15°44'	26°41'	23°8'	3°15'	20°38'	2°4	2°46	6°41	5°30	18°12	13°0	S 15
S 16	22 13 44	1°48'10	23°46'	21°10'	16°48'	27°20'	23°4'	3°22'	20°41'	2°3	2°44	6°40	5°27	18°19	12°58	S 16
M17	22 17 41	2°46'16	7°15'	22°42'	17°51'	27°58'	23°0'	3°29'	20°44'	2°2	2°43	6°D40	5°24	18°25	12°56	M17
T 18	22 21 37	3°44'22	2°1'	24°13'	18°54'	28°37'	22°55'	3°36'	20°47'	2°0	2°42	6°41	5°21	18°32	12°54	T 18
W19	22 25 34	4°42'31	5°54'	25°43'	19°58'	29°16'	22°51'	3°43'	20°49'	1°59	2°41	6°42	5°18	18°39	12°52	W19
T 20	22 29 30	5°40'41	19°37'	27°11'	21°2'	29°55'	22°47'	3°50'	20°52'	1°57	2°40	6°44	5°14	18°46	12°50	T 20
F 21	22 33 27	6°38'52	3°8'	28°39'	22°7'	0°34	22°44'	3°57'	20°55'	1°56	2°39	6°R44	5°11	18°52	12°48	F 21
S 22	22 37 24	7°37'05	16°28'	0°4	23°11'	1°13'	22°40'	4°4'	20°58'	1°54	2°38	6°44	5°8	18°59	12°45	S 22
S 23	22 41 20	8°35'19	29°35'	1°29'	24°16'	1°52'	22°37'	4°11'	21°1'	1°53	2°37	6°42	5°5	19°6	12°43	S 23
M24	22 45 17	9°33'36	12°39'	2°52'	25°21'	2°31'	22°34'	4°18'	21°3'	1°51	2°36	6°39	5°2	19°12	12°41	M24
T 25	22 49 13	10°31'54	25°10'	4°14'	26°27'	3°11'	22°31'	4°25'	21°6'	1°50	2°35	6°34	4°59	19°19	12°39	T 25
W26	22 53 10	11°30'14	7°37'	5°34'	27°32'	3°50'	22°28'	4°31'	21°9'	1°48	2°34	6°28	4°55	19°26	12°36	W26
T 27	22 57 6	12°28'36	19°52'	6°53'	28°38'	4°29'	22°25'	4°38'	21°11'	1°47	2°33	6°22	4°52	19°33	12°34	T 27
F 28	23 1 3	13°27'00	1°57'	8°10'	29°44'	5°8'	22°23'	4°45'	21°14'	1°45	2°32	6°16	4°49	19°39	12°32	F 28
S 29	23 4 59	14°25'26	13°54'	9°26'	0°L50	5°48'	22°21'	4°51'	21°16'	1°44	2°31	6°10	4°46	19°46	12°29	S 29
S 30	23 8 56	15°23'54	25°47'	10°41'	1°57'	6°27'	22°19'	4°58'	21°19'	1°42	2°30	6°7	4°43	19°53	12°27	S 30
M31	23 12 53	16°22'24	7°39'	11°53'	3°L 4	7°L 7	22°17'	5°L 4	21°21'	1°Y41	2°29	6°L 5	4°L39	19°59	12°Y24	M31

Delta T = 214.09 sec

Julian Calendar

## ASTRODIENST EPHEMERIS for the year 1534

geocentric

SEPTEMBER 1534 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	23 16 49	17 <sup>11</sup> 20'57	19 <sup>11</sup> 35	13 <sup>11</sup> 4	4 <sup>11</sup> 10	7 <sup>11</sup> 46	22 <sup>11</sup> 15	5 <sup>11</sup> 11	21 <sup>11</sup> 24	1 <sup>11</sup> 39	2 <sup>11</sup> 28	6 <sup>11</sup> D 4	4 <sup>11</sup> 36	20 <sup>11</sup> 6	12 <sup>11</sup> R22	T 1
W 2	23 20 46	18 <sup>11</sup> 19'32	1 <sup>11</sup> 41	14 <sup>11</sup> 13	5 <sup>11</sup> 18	8 <sup>11</sup> 26	22 <sup>11</sup> 14	5 <sup>11</sup> 17	21 <sup>11</sup> 26	1 <sup>11</sup> 37	2 <sup>11</sup> 27	6 <sup>11</sup> 5	4 <sup>11</sup> 33	20 <sup>11</sup> 13	12 <sup>11</sup> Y19	W 2
T 3	23 24 42	19 <sup>11</sup> 18'09	14 <sup>11</sup> 0	15 <sup>11</sup> 20	6 <sup>11</sup> 25	9 <sup>11</sup> 5	22 <sup>11</sup> 12	5 <sup>11</sup> 24	21 <sup>11</sup> 29	1 <sup>11</sup> 36	2 <sup>11</sup> 26	6 <sup>11</sup> 6	4 <sup>11</sup> 30	20 <sup>11</sup> 20	12 <sup>11</sup> 17	T 3
F 4	23 28 39	20 <sup>11</sup> 16'48	26 <sup>11</sup> 39	16 <sup>11</sup> 24	7 <sup>11</sup> 32	9 <sup>11</sup> 45	22 <sup>11</sup> 11	5 <sup>11</sup> 30	21 <sup>11</sup> 31	1 <sup>11</sup> 34	2 <sup>11</sup> 25	6 <sup>11</sup> 8	4 <sup>11</sup> 27	20 <sup>11</sup> 26	12 <sup>11</sup> 14	F 4
S 5	23 32 35	21 <sup>11</sup> 15'30	9 <sup>11</sup> 40	17 <sup>11</sup> 27	8 <sup>11</sup> 40	10 <sup>11</sup> 25	22 <sup>11</sup> 10	5 <sup>11</sup> 36	21 <sup>11</sup> 33	1 <sup>11</sup> 32	2 <sup>11</sup> 25	6 <sup>11</sup> R 8	4 <sup>11</sup> 24	20 <sup>11</sup> 33	12 <sup>11</sup> 11	S 5
S 6	23 36 32	22 <sup>11</sup> 14'13	23 <sup>11</sup> 6	18 <sup>11</sup> 27	9 <sup>11</sup> 48	11 <sup>11</sup> 5	22 <sup>11</sup> 10	5 <sup>11</sup> 42	21 <sup>11</sup> 35	1 <sup>11</sup> 31	2 <sup>11</sup> 24	6 <sup>11</sup> 7	4 <sup>11</sup> 20	20 <sup>11</sup> 40	12 <sup>11</sup> 9	S 6
M 7	23 40 28	23 <sup>11</sup> 12'59	6 <sup>11</sup> 57	19 <sup>11</sup> 25	10 <sup>11</sup> 56	11 <sup>11</sup> 44	22 <sup>11</sup> 9	5 <sup>11</sup> 48	21 <sup>11</sup> 37	1 <sup>11</sup> 29	2 <sup>11</sup> 23	6 <sup>11</sup> 3	4 <sup>11</sup> 17	20 <sup>11</sup> 46	12 <sup>11</sup> 6	M 7
T 8	23 44 25	24 <sup>11</sup> 11'47	21 <sup>11</sup> 11	20 <sup>11</sup> 19	12 <sup>11</sup> 4	12 <sup>11</sup> 24	22 <sup>11</sup> 9	5 <sup>11</sup> 54	21 <sup>11</sup> 40	1 <sup>11</sup> 28	2 <sup>11</sup> 22	5 <sup>11</sup> 58	4 <sup>11</sup> 14	20 <sup>11</sup> 53	12 <sup>11</sup> 3	T 8
W 9	23 48 21	25 <sup>11</sup> 10'37	5 <sup>11</sup> 44	21 <sup>11</sup> 11	13 <sup>11</sup> 12	13 <sup>11</sup> 4	22 <sup>11</sup> D 9	6 <sup>11</sup> 0	21 <sup>11</sup> 42	1 <sup>11</sup> 26	2 <sup>11</sup> 21	5 <sup>11</sup> 51	4 <sup>11</sup> 11	21 <sup>11</sup> 0	12 <sup>11</sup> 1	W 9
T 10	23 52 18	26 <sup>11</sup> 9'29	20 <sup>11</sup> 28	22 <sup>11</sup> 0	14 <sup>11</sup> 21	13 <sup>11</sup> 44	22 <sup>11</sup> 9	6 <sup>11</sup> 6	21 <sup>11</sup> 44	1 <sup>11</sup> 24	2 <sup>11</sup> 21	5 <sup>11</sup> 43	4 <sup>11</sup> 8	21 <sup>11</sup> 7	11 <sup>11</sup> 58	T 10
F 11	23 56 15	27 <sup>11</sup> 8'22	5 <sup>11</sup> 16	22 <sup>11</sup> 45	15 <sup>11</sup> 30	14 <sup>11</sup> 24	22 <sup>11</sup> 9	6 <sup>11</sup> 12	21 <sup>11</sup> 46	1 <sup>11</sup> 23	2 <sup>11</sup> 20	5 <sup>11</sup> 35	4 <sup>11</sup> 4	21 <sup>11</sup> 13	11 <sup>11</sup> 55	F 11
S 12	0 0 11	28 <sup>11</sup> 7'18	19 <sup>11</sup> 59	23 <sup>11</sup> 26	16 <sup>11</sup> 38	15 <sup>11</sup> 4	22 <sup>11</sup> 10	6 <sup>11</sup> 18	21 <sup>11</sup> 48	1 <sup>11</sup> 21	2 <sup>11</sup> 19	5 <sup>11</sup> 29	4 <sup>11</sup> 1	21 <sup>11</sup> 20	11 <sup>11</sup> 53	S 12
S 13	0 4 8	29 <sup>11</sup> 6'15	4 <sup>11</sup> 31	24 <sup>11</sup> 3	17 <sup>11</sup> 47	15 <sup>11</sup> 44	22 <sup>11</sup> 10	6 <sup>11</sup> 24	21 <sup>11</sup> 50	1 <sup>11</sup> 19	2 <sup>11</sup> 19	5 <sup>11</sup> 24	3 <sup>11</sup> 58	21 <sup>11</sup> 27	11 <sup>11</sup> 50	S 13
M14	0 8 4	0 <sup>11</sup> 5'14	18 <sup>11</sup> 48	24 <sup>11</sup> 35	18 <sup>11</sup> 57	16 <sup>11</sup> 25	22 <sup>11</sup> 11	6 <sup>11</sup> 29	21 <sup>11</sup> 51	1 <sup>11</sup> 18	2 <sup>11</sup> 18	5 <sup>11</sup> 22	3 <sup>11</sup> 55	21 <sup>11</sup> 34	11 <sup>11</sup> 47	M14
T 15	0 12 1	1 <sup>11</sup> 4'15	2 <sup>11</sup> 48	25 <sup>11</sup> 3	20 <sup>11</sup> 6	17 <sup>11</sup> 5	22 <sup>11</sup> 12	6 <sup>11</sup> 35	21 <sup>11</sup> 53	1 <sup>11</sup> 16	2 <sup>11</sup> 18	5 <sup>11</sup> D21	3 <sup>11</sup> 52	21 <sup>11</sup> 40	11 <sup>11</sup> 44	T 15
W16	0 15 57	2 <sup>11</sup> 3'18	16 <sup>11</sup> 30	25 <sup>11</sup> 25	21 <sup>11</sup> 15	17 <sup>11</sup> 45	22 <sup>11</sup> 14	6 <sup>11</sup> 40	21 <sup>11</sup> 55	1 <sup>11</sup> 14	2 <sup>11</sup> 17	5 <sup>11</sup> 22	3 <sup>11</sup> 49	21 <sup>11</sup> 47	11 <sup>11</sup> 41	W16
T 17	0 19 54	3 <sup>11</sup> 2'22	29 <sup>11</sup> 56	25 <sup>11</sup> 42	22 <sup>11</sup> 25	18 <sup>11</sup> 25	22 <sup>11</sup> 15	6 <sup>11</sup> 46	21 <sup>11</sup> 57	1 <sup>11</sup> 13	2 <sup>11</sup> 17	5 <sup>11</sup> R22	3 <sup>11</sup> 45	21 <sup>11</sup> 54	11 <sup>11</sup> 39	T 17
F 18	0 23 50	4 <sup>11</sup> 1'29	13 <sup>11</sup> 37	25 <sup>11</sup> 52	23 <sup>11</sup> 35	19 <sup>11</sup> 6	22 <sup>11</sup> 17	6 <sup>11</sup> 51	21 <sup>11</sup> 58	1 <sup>11</sup> 11	2 <sup>11</sup> 16	5 <sup>11</sup> 22	3 <sup>11</sup> 42	22 <sup>11</sup> 0	11 <sup>11</sup> 36	F 18
S 19	0 27 47	5 <sup>11</sup> 0'37	26 <sup>11</sup> 5	25 <sup>11</sup> R56	24 <sup>11</sup> 45	19 <sup>11</sup> 46	22 <sup>11</sup> 19	6 <sup>11</sup> 57	22 <sup>11</sup> 0	1 <sup>11</sup> 9	2 <sup>11</sup> 16	5 <sup>11</sup> 20	3 <sup>11</sup> 39	22 <sup>11</sup> 7	11 <sup>11</sup> 33	S 19
S 20	0 31 44	5 <sup>11</sup> 59'46	8 <sup>11</sup> 51	25 <sup>11</sup> 53	25 <sup>11</sup> 55	20 <sup>11</sup> 27	22 <sup>11</sup> 21	7 <sup>11</sup> 2	22 <sup>11</sup> 2	1 <sup>11</sup> 8	2 <sup>11</sup> 15	5 <sup>11</sup> 16	3 <sup>11</sup> 36	22 <sup>11</sup> 14	11 <sup>11</sup> 30	S 20
M21	0 35 40	6 <sup>11</sup> 58'58	21 <sup>11</sup> 26	25 <sup>11</sup> 42	27 <sup>11</sup> 5	21 <sup>11</sup> 7	22 <sup>11</sup> 23	7 <sup>11</sup> 7	22 <sup>11</sup> 3	1 <sup>11</sup> 6	2 <sup>11</sup> 15	5 <sup>11</sup> 8	3 <sup>11</sup> 33	22 <sup>11</sup> 21	11 <sup>11</sup> 27	M21
T 22	0 39 37	7 <sup>11</sup> 58'12	3 <sup>11</sup> Y52	25 <sup>11</sup> 23	28 <sup>11</sup> 15	21 <sup>11</sup> 48	22 <sup>11</sup> 25	7 <sup>11</sup> 12	22 <sup>11</sup> 5	1 <sup>11</sup> 4	2 <sup>11</sup> 14	4 <sup>11</sup> 59	3 <sup>11</sup> 30	22 <sup>11</sup> 27	11 <sup>11</sup> 24	T 22
W23	0 43 33	8 <sup>11</sup> 57'28	16 <sup>11</sup> 8	24 <sup>11</sup> 57	29 <sup>11</sup> 25	22 <sup>11</sup> 28	22 <sup>11</sup> 28	7 <sup>11</sup> 17	22 <sup>11</sup> 6	1 <sup>11</sup> 3	2 <sup>11</sup> 14	4 <sup>11</sup> 47	3 <sup>11</sup> 26	22 <sup>11</sup> 34	11 <sup>11</sup> 21	W23
T 24	0 47 30	9 <sup>11</sup> 56'45	28 <sup>11</sup> 15	24 <sup>11</sup> 22	0 <sup>11</sup> 36	23 <sup>11</sup> 9	22 <sup>11</sup> 31	7 <sup>11</sup> 22	22 <sup>11</sup> 7	1 <sup>11</sup> 1	2 <sup>11</sup> 14	4 <sup>11</sup> 35	3 <sup>11</sup> 23	22 <sup>11</sup> 41	11 <sup>11</sup> 19	T 24
F 25	0 51 26	10 <sup>11</sup> 56'05	10 <sup>11</sup> B15	23 <sup>11</sup> 39	1 <sup>11</sup> 47	23 <sup>11</sup> 50	22 <sup>11</sup> 34	7 <sup>11</sup> 27	22 <sup>11</sup> 9	0 <sup>11</sup> 59	2 <sup>11</sup> 13	4 <sup>11</sup> 23	3 <sup>11</sup> 20	22 <sup>11</sup> 47	11 <sup>11</sup> 16	F 25
S 26	0 55 23	11 <sup>11</sup> 55'28	22 <sup>11</sup> 10	22 <sup>11</sup> 48	2 <sup>11</sup> 57	24 <sup>11</sup> 30	22 <sup>11</sup> 37	7 <sup>11</sup> 31	22 <sup>11</sup> 10	0 <sup>11</sup> 58	2 <sup>11</sup> 13	4 <sup>11</sup> 12	3 <sup>11</sup> 17	22 <sup>11</sup> 54	11 <sup>11</sup> 13	S 26
S 27	0 59 19	12 <sup>11</sup> 54'52	4 <sup>11</sup> II 0	21 <sup>11</sup> 50	4 <sup>11</sup> 8	25 <sup>11</sup> 11	22 <sup>11</sup> 41	7 <sup>11</sup> 36	22 <sup>11</sup> 11	0 <sup>11</sup> 56	2 <sup>11</sup> 13	4 <sup>11</sup> 3	3 <sup>11</sup> 14	23 <sup>11</sup> 1	11 <sup>11</sup> 10	S 27
M28	1 3 16	13 <sup>11</sup> 54'19	15 <sup>11</sup> 51	20 <sup>11</sup> 46	5 <sup>11</sup> 19	25 <sup>11</sup> 52	22 <sup>11</sup> 44	7 <sup>11</sup> 41	22 <sup>11</sup> 12	0 <sup>11</sup> 54	2 <sup>11</sup> 12	3 <sup>11</sup> 57	3 <sup>11</sup> 10	23 <sup>11</sup> 8	11 <sup>11</sup> 7	M28
T 29	1 7 13	14 <sup>11</sup> 53'48	27 <sup>11</sup> 44	19 <sup>11</sup> 38	6 <sup>11</sup> 31	26 <sup>11</sup> 33	22 <sup>11</sup> 48	7 <sup>11</sup> 45	22 <sup>11</sup> 14	0 <sup>11</sup> 53	2 <sup>11</sup> 12	3 <sup>11</sup> 53	3 <sup>11</sup> 7	23 <sup>11</sup> 14	11 <sup>11</sup> 4	T 29
W30	1 11 9	15 <sup>11</sup> 53'20	9 <sup>11</sup> 47	18 <sup>11</sup> 25	7 <sup>11</sup> 42	27 <sup>11</sup> 14	22 <sup>11</sup> 52	7 <sup>11</sup> 50	22 <sup>11</sup> 15	0 <sup>11</sup> Y51	2 <sup>11</sup> 12	3 <sup>11</sup> 52	3 <sup>11</sup> 4	23 <sup>11</sup> B21	11 <sup>11</sup> Y 1	W30

Delta T = 213.90 sec

Julian Calendar 1 Sept. 1534 == Greg. Calendar 11 Sept. 1534

OCTOBER 1534 JC

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	1 15 6	16♂52'53	22♂ 3	17°R12	8♂53	27♂55	22♂56	7♂54	22♂16	0°R50	2°R12	3°D52	3♂ 1	23♂28	10°R59	T 1
F 2	1 19 2	17°52'29	4♂37	15♂59	10° 5	28°36	23° 0	7°58	22°17	0°Y48	2♂12	3°R52	2°58	23°34	10°Y56	F 2
S 3	1 22 59	18°52'08	17°35	14°49	11°16	29°17	23° 5	8° 2	22°18	0°46	2°12	3♂51	2°55	23°41	10°53	S 3
S 4	1 26 55	19°51'48	1♂ 1	13°43	12°28	29°58	23° 9	8° 6	22°18	0°45	2°12	3°48	2°51	23°48	10°50	S 4
M 5	1 30 52	20°51'31	14°56	12°45	13°40	0♂40	23°14	8°10	22°19	0°43	2°11	3°43	2°48	23°55	10°47	M 5
T 6	1 34 48	21°51'16	29°20	11°55	14°52	1°21	23°19	8°14	22°20	0°42	2°D11	3°35	2°45	24° 1	10°44	T 6
W 7	1 38 45	22°51'03	14♂ 8	11°15	16° 4	2° 2	23°24	8°18	22°21	0°40	2°11	3°25	2°42	24° 8	10°42	W 7
T 8	1 42 42	23°50'52	29°12	10°46	17°16	2°44	23°30	8°22	22°21	0°39	2°11	3°14	2°39	24°15	10°39	T 8
F 9	1 46 38	24°50'44	14♂23	10°28	18°28	3°25	23°35	8°25	22°22	0°37	2°12	3° 3	2°35	24°21	10°36	F 9
S 10	1 50 35	25°50'37	29°30	10°D21	19°41	4° 7	23°41	8°29	22°23	0°36	2°12	2°53	2°32	24°28	10°33	S 10
S 11	1 54 31	26°50'32	14♂22	10°25	20°53	4°48	23°47	8°32	22°23	0°34	2°12	2°45	2°29	24°35	10°31	S 11
M12	1 58 28	27°50'28	28°54	10°41	22° 6	5°30	23°53	8°36	22°23	0°33	2°12	2°41	2°26	24°42	10°28	M12
T 13	2 2 24	28°50'27	13♂ 2	11° 6	23°18	6°11	23°59	8°39	22°24	0°31	2°12	2°38	2°23	24°48	10°25	T 13
W14	2 6 21	29°50'27	26°46	11°42	24°31	6°53	24° 5	8°42	22°24	0°30	2°12	2°38	2°20	24°55	10°22	W14
T 15	2 10 17	0♂50'28	10♂ 7	12°25	25°44	7°35	24°12	8°45	22°24	0°29	2°13	2°38	2°16	25° 2	10°20	T 15
F 16	2 14 14	1°50'31	23° 8	13°16	26°56	8°17	24°19	8°48	22°25	0°27	2°13	2°37	2°13	25° 8	10°17	F 16
S 17	2 18 11	2°50'36	5♂52	14°15	28° 9	8°59	24°26	8°51	22°25	0°26	2°13	2°34	2°10	25°15	10°15	S 17
S 18	2 22 7	3°50'42	18°23	15°19	29°22	9°40	24°33	8°53	22°25	0°25	2°13	2°28	2° 7	25°22	10°12	S 18
M19	2 26 4	4°50'50	0°Y44	16°28	0♂35	10°22	24°40	8°56	22°R25	0°23	2°14	2°20	2° 4	25°28	10°10	M19
T 20	2 30 0	5°51'00	12°56	17°42	1°48	11° 4	24°47	8°59	22°25	0°22	2°14	2° 8	2° 1	25°35	10° 7	T 20
W21	2 33 57	6°51'11	25° 1	19° 0	3° 2	11°46	24°54	9° 1	22°25	0°21	2°14	1°54	1°57	25°42	10° 4	W21
T 22	2 37 53	7°51'24	7♂ 0	20°22	4°15	12°29	25° 2	9° 3	22°25	0°19	2°15	1°40	1°54	25°49	10° 2	T 22
F 23	2 41 50	8°51'39	18°56	21°46	5°28	13°11	25°10	9° 5	22°25	0°18	2°15	1°25	1°51	25°55	10° 0	F 23
S 24	2 45 46	9°51'56	0♂47	23°12	6°41	13°53	25°18	9° 8	22°24	0°17	2°16	1°12	1°48	26° 2	9°57	S 24
S 25	2 49 43	10°52'14	12°38	24°40	7°55	14°35	25°26	9° 9	22°24	0°16	2°16	1° 1	1°45	26° 9	9°55	S 25
M26	2 53 39	11°52'35	24°29	26°10	9° 9	15°17	25°34	9°11	22°24	0°15	2°17	0°53	1°41	26°15	9°53	M26
T 27	2 57 36	12°52'57	6♂23	27°41	10°22	16° 0	25°42	9°13	22°23	0°14	2°17	0°48	1°38	26°22	9°50	T 27
W28	3 1 33	13°53'21	18°25	29°13	11°36	16°42	25°51	9°15	22°23	0°12	2°18	0°46	1°35	26°29	9°48	W28
T 29	3 5 29	14°53'47	0♂38	0♂46	12°50	17°25	25°59	9°16	22°22	0°11	2°19	0°D45	1°32	26°36	9°46	T 29
F 30	3 9 26	15°54'16	13° 9	2°20	14° 3	18° 7	26° 8	9°18	22°22	0°10	2°19	0°R45	1°29	26°42	9°44	F 30
S 31	3 13 22	16♂54'45	26♂ 1	3♂54	15♂17	18♂50	26♂17	9♂19	22♂21	0°Y 9	2♂20	0♂45	1♂26	26♂49	9°Y41	S 31

# ASTRODIENST EPHEMERIS for the year 1534

## geocentric

NOVEMBER 1534 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	3 17 19	17 <sup>h</sup> 55'17"	9 <sup>h</sup> 19'	5 <sup>h</sup> 12'28"	16 <sup>h</sup> 31'	19 <sup>h</sup> 13'32"	26 <sup>h</sup> 32'26"	9 <sup>h</sup> 20'	22 <sup>h</sup> 21'	0 <sup>h</sup> 8'	2 <sup>h</sup> 21'	0 <sup>h</sup> 43'	1 <sup>h</sup> 22'	26 <sup>h</sup> 56'	9 <sup>h</sup> 39'	S 1
M 2	3 21 15	18 <sup>h</sup> 55'51"	23° 7'	7° 3'	17°45'	20°15'	26°35'	9°21'	22 <sup>h</sup> 20'	0 <sup>h</sup> 7'	2°21'	0 <sup>h</sup> 39'	1°19'	27° 2'	9 <sup>h</sup> 37'	M 2
T 3	3 25 12	19°56'26"	7 <sup>h</sup> 25'	8°38'	18°59'	20°58'	26°45'	9°22'	22°19'	0° 6'	2°22'	0°32'	1°16'	27° 9'	9°35'	T 3
W 4	3 29 8	20°57'03"	22°10'	10°13'	20°13'	21°41'	26°54'	9°23'	22°18'	0° 5'	2°23'	0°23'	1°13'	27°16'	9°33'	W 4
T 5	3 33 5	21°57'42"	7 <sup>h</sup> 17'	11°48'	21°27'	22°24'	27° 3'	9°24'	22°17'	0° 5'	2°24'	0°13'	1°10'	27°23'	9°31'	T 5
F 6	3 37 2	22°58'22"	22°37'	13°23'	22°41'	23° 6'	27°13'	9°25'	22°16'	0° 4'	2°25'	0° 2'	1° 7'	27°29'	9°29'	F 6
S 7	3 40 58	23°59'04"	7 <sup>h</sup> 25'	14°59'	23°56'	23°49'	27°23'	9°25'	22°15'	0° 3'	2°25'	29°53'	1° 3'	27°36'	9°27'	S 7
S 8	3 44 55	24°59'48"	23° 5'	16°34'	25°10'	24°32'	27°33'	9°26'	22°14'	0° 2'	2°26'	29°46'	1° 0'	27°43'	9°26'	S 8
M 9	3 48 51	26° 0'32"	7 <sup>h</sup> 35'	18° 9'	26°24'	25°15'	27°43'	9°26'	22°13'	0° 1'	2°27'	29°41'	0°57'	27°49'	9°24'	M 9
T 10	3 52 48	27° 1'18"	22°16'	19°44'	27°38'	25°59'	27°53'	9°26'	22°12'	0° 1'	2°28'	29°39'	0°54'	27°56'	9°22'	T 10
W 11	3 56 44	28° 2'05"	6 <sup>h</sup> 21'10"	21°18'	28°53'	26°42'	28° 3'	9°26'	22°11'	29°59'	2°29'	29°D39'	0°51'	28° 3'	9°21'	W 11
T 12	4 0 41	29° 2'52"	19°38'	22°53'	0 <sup>h</sup> 11'7"	27°25'	28°14'	9°26'	22°10'	29°59'	2°30'	29°40'	0°47'	28°10'	9°19'	T 12
F 13	4 4 38	0 <sup>h</sup> 27'34"	2 <sup>h</sup> 40'	24°28'	1°22'	28° 8'	28°24'	9°26'	22° 9'	29°59'	2°31'	29°R40'	0°44'	28°16'	9°17'	F 13
S 14	4 8 34	1° 4'30"	15°22'	26° 2'	2°36'	28°51'	28°35'	9°26'	22° 7'	29°58'	2°32'	29°39'	0°41'	28°23'	9°16'	S 14
S 15	4 12 31	2° 5'21"	27°47'	27°37'	3°51'	29°35'	28°45'	9°25'	22° 6'	29°57'	2°33'	29°36'	0°38'	28°30'	9°14'	S 15
M 16	4 16 27	3° 6'12"	9 <sup>h</sup> 59'	29°11'	5° 5'	0 <sup>h</sup> 21'18"	28°56'	9°25'	22° 4'	29°57'	2°34'	29°30'	0°35'	28°36'	9°13'	M 16
T 17	4 20 24	4° 7'04"	22° 3'	0 <sup>h</sup> 24'46"	6°20'	1° 2'	29° 7'	9°24'	22° 3'	29°56'	2°35'	29°22'	0°32'	28°43'	9°12'	T 17
W 18	4 24 20	5° 7'57"	4 <sup>h</sup> 8'0"	2°20'	7°34'	1°45'	29°18'	9°24'	22° 2'	29°56'	2°37'	29°12'	0°28'	28°50'	9°10'	W 18
T 19	4 28 17	6° 8'51"	15°54'	3°54'	8°49'	2°29'	29°29'	9°23'	22° 0'	29°55'	2°38'	29° 1'	0°25'	28°56'	9° 9'	T 19
F 20	4 32 13	7° 9'46"	27°45'	5°29'	10° 4'	3°12'	29°40'	9°22'	21°58'	29°55'	2°39'	28°50'	0°22'	29° 3'	9° 8'	F 20
S 21	4 36 10	8°10'42"	9 <sup>h</sup> 11'37"	7° 3'	11°18'	3°56'	29°52'	9°21'	21°57'	29°54'	2°40'	28°40'	0°19'	29°10'	9° 7'	S 21
S 22	4 40 6	9°11'40"	21°30'	8°37'	12°33'	4°40'	0 <sup>h</sup> 23'3"	9°20'	21°55'	29°54'	2°41'	28°33'	0°16'	29°17'	9° 6'	S 22
M 23	4 44 3	10°12'38"	3 <sup>h</sup> 26'	10°11'	13°48'	5°23'	0°15'	9°18'	21°53'	29°54'	2°43'	28°27'	0°13'	29°23'	9° 5'	M 23
T 24	4 48 0	11°13'37"	15°27'	11°46'	15° 2'	6° 7'	0°26'	9°17'	21°52'	29°53'	2°44'	28°24'	0° 9'	29°30'	9° 4'	T 24
W 25	4 51 56	12°14'37"	27°35'	13°20'	16°17'	6°51'	0°38'	9°16'	21°50'	29°53'	2°45'	28°D23'	0° 6'	29°37'	9° 3'	W 25
T 26	4 55 53	13°15'38"	9 <sup>h</sup> 25'3"	14°54'	17°32'	7°35'	0°50'	9°14'	21°48'	29°53'	2°46'	28°23'	0° 3'	29°43'	9° 2'	T 26
F 27	4 59 49	14°16'40"	22°26'	16°29'	18°47'	8°19'	1° 2'	9°12'	21°46'	29°53'	2°48'	28°25'	29°59'	29°50'	9° 1'	F 27
S 28	5 3 46	15°17'43"	5 <sup>h</sup> 17'	18° 3'	20° 2'	9° 3'	1°14'	9°10'	21°44'	29°53'	2°49'	28°26'	29°57'	29°57'	9° 0'	S 28
S 29	5 7 42	16°18'48"	18°29'	19°38'	21°17'	9°47'	1°26'	9° 9'	21°42'	29°53'	2°50'	28°R26'	29°53'	0 <sup>h</sup> 11'4"	8°59'	S 29
M 30	5 11 39	17°19'53"	2 <sup>h</sup> 27'	21°13'	22°13'32"	10°23'31"	1°23'38"	9° 6'	21°40'	29°52'	2°52'	28°25'	29°50'	0 <sup>h</sup> 11'10"	8°59'	M 30

Delta T = 213.52 sec

Julian Calendar 1 Nov. 1534 == Greg. Calendar 11 Nov. 1534

DECEMBER 1534 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	5 15 36	18 <sup>h</sup> 20'59"	16 <sup>h</sup> 21'	22°48'	23°14'47"	11°15'	1°25'50"	9°R 4'	21°R38'	29°R52'	2°53'	28°R22'	29°247'	0 <sup>h</sup> 11'17"	8°R58'	T 1
W 2	5 19 32	19°22'06"	0 <sup>h</sup> 14'41"	24°23'	25° 2'	11°59'	2° 2'	9° 2'	21°36'	29°D52'	2°55'	28°218'	29°44'	0°24'	8°Y58'	W 2
T 3	5 23 29	20°23'14"	15°33'	25°58'	26°17'	12°43'	2°15'	9° 0'	21°34'	29°H52'	2°56'	28°12'	29°41'	0°30'	8°57'	T 3
F 4	5 27 25	21°24'22"	0 <sup>h</sup> 24'40"	27°34'	27°32'	13°28'	2°27'	8°57'	21°32'	29°52'	2°58'	28° 6'	29°38'	0°37'	8°57'	F 4
S 5	5 31 22	22°25'32"	15°53'	29° 9'	28°47'	14°12'	2°39'	8°55'	21°30'	29°53'	2°59'	28° 1'	29°34'	0°44'	8°56'	S 5
S 6	5 35 18	23°26'42"	1 <sup>h</sup> 31'	0 <sup>h</sup> 34'45"	0 <sup>h</sup> 27'	14°56'	2°52'	8°52'	21°28'	29°53'	3° 1'	27°57'	29°31'	0°50'	8°56'	S 6
M 7	5 39 15	24°27'52"	15°55'	2°21'	1°17'	15°41'	3° 5'	8°50'	21°25'	29°53'	3° 2'	27°55'	29°28'	0°57'	8°56'	M 7
T 8	5 43 11	25°29'03"	0 <sup>h</sup> 28'	3°57'	2°32'	16°25'	3°17'	8°47'	21°23'	29°53'	3° 4'	27°D55'	29°25'	1° 4'	8°56'	T 8
W 9	5 47 8	26°30'13"	14°34'	5°33'	3°47'	17°10'	3°30'	8°44'	21°21'	29°53'	3° 5'	27°55'	29°22'	1°11'	8°56'	W 9
T 10	5 51 5	27°31'24"	28°11'	7° 9'	5° 2'	17°54'	3°43'	8°41'	21°19'	29°54'	3° 7'	27°57'	29°19'	1°17'	8°55'	T 10
F 11	5 55 1	28°32'35"	11°23'	8°46'	6°17'	18°39'	3°56'	8°38'	21°16'	29°54'	3° 8'	27°59'	29°15'	1°24'	8°D55'	F 11
S 12	5 58 58	29°33'45"	24°10'	10°22'	7°32'	19°24'	4° 9'	8°35'	21°14'	29°54'	3°10'	28°R 0'	29°12'	1°31'	8°56'	S 12
S 13	6 2 54	0 <sup>h</sup> 33'46"	6°Y37'	11°58'	8°47'	20° 8'	4°22'	8°31'	21°11'	29°55'	3°12'	28° 0'	29° 9'	1°37'	8°56'	S 13
M 14	6 6 51	1°36'06"	18°49'	13°35'	10° 2'	20°53'	4°35'	8°28'	21° 9'	29°55'	3°13'	27°58'	29° 6'	1°44'	8°56'	M 14
T 15	6 10 47	2°37'17"	0 <sup>h</sup> 35'0"	15°11'	11°17'	21°38'	4°48'	8°24'	21° 7'	29°55'	3°15'	27°56'	29° 3'	1°51'	8°56'	T 15
W 16	6 14 44	3°38'27"	12°44'	16°47'	12°32'	22°23'	5° 2'	8°21'	21° 4'	29°56'	3°16'	27°52'	28°59'	1°57'	8°56'	W 16
T 17	6 18 40	4°39'37"	24°35'	18°22'	13°47'	23° 7'	5°15'	8°17'	21° 2'	29°56'	3°18'	27°48'	28°56'	2° 4'	8°57'	T 17
F 18	6 22 37	5°40'47"	6 <sup>h</sup> 11'26"	19°57'	15° 3'	23°52'	5°28'	8°14'	20°59'	29°57'	3°20'	27°44'	28°53'	2°11'	8°57'	F 18
S 19	6 26 34	6°41'57"	18°19'	21°32'	16°18'	24°37'	5°42'	8°10'	20°57'	29°58'	3°21'	27°40'	28°50'	2°18'	8°58'	S 19
S 20	6 30 30	7°43'06"	0 <sup>h</sup> 26'17"	23° 5'	17°33'	25°22'	5°55'	8° 6'	20°54'	29°58'	3°23'	27°37'	28°47'	2°24'	8°58'	S 20
M 21	6 34 27	8°44'16"	12°22'	24°38'	18°48'	26° 7'	6° 9'	8° 2'	20°52'	29°59'	3°25'	27°36'	28°44'	2°31'	8°59'	M 21
T 22	6 38 23	9°45'25"	24°35'	26° 9'	20° 3'	26°52'	6°22'	7°58'	20°49'	29°59'	3°27'	27°D35'	28°40'	2°38'	8°59'	T 22
W 23	6 42 20	10°46'34"	6 <sup>h</sup> 25'7"	27°39'	21°18'	27°37'	6°36'	7°54'	20°47'	0 <sup>h</sup> Y 0'	3°28'	27°35'	28°37'	2°44'	9° 0'	W 23
T 24	6 46 16	11°47'44"	19°30'	29° 7'	22°34'	28°23'	6°49'	7°50'	20°44'	0° 1'	3°30'	27°36'	28°34'	2°51'	9° 1'	T 24
F 25	6 50 13	12°48'53"	2 <sup>h</sup> 16'16"	0 <sup>h</sup> 23'32"	23°49'	29° 8'	7° 3'	7°46'	20°41'	0° 2'	3°32'	27°37'	28°31'	2°58'	9° 2'	F 25
S 26	6 54 9	13°50'02"	15°17'	1°55'	25° 4'	29°53'	7°17'	7°42'	20°39'	0° 2'	3°34'	27°39'	28°28'	3° 4'	9° 2'	S 26
S 27	6 58 6	14°51'10"	28°34'	3°14'	26°19'	0 <sup>h</sup> 33'38"	7°31'	7°37'	20°36'	0° 3'	3°35'	27°40'	28°25'	3°11'	9° 3'	S 27
M 28	7 2 3	15°52'19"	12 <sup>h</sup> 21'9"	4°29'	27°34'	1°24'	7°44'	7°33'	20°34'	0° 4'	3°37'	27°R40'	28°21'	3°18'	9° 4'	M 28
T 29	7 5 59	16°53'28"	26° 3'	5°40'	28°49'	2° 9'	7°58'	7°29'	20°31'	0° 5'	3°39'	27°40'	28°18'	3°25'	9° 5'	T 29
W 30	7 9 56	17°54'36"	10 <sup>h</sup> 16'16"	6°46'	0 <sup>h</sup> 35'	2°54'	8°12'	7°24'	20°28'	0° 6'	3°41'	27°39'	28°15'	3°31'	9° 6'	W 30
T 31	7 13 52	18°55'45"	24°14'45"	7°24'45"	1 <sup>h</sup> 32'0"	3°34'40"	8°26'	7°20'	20°26'	0 <sup>h</sup> Y 7'	3°43'	27°38'	28°12'	3°33'38"	9°Y 8'	T 31

Delta T = 213.34 sec

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