



Astrodienst Ephemeris Tables for the year 1563

tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming
Dieter Koch and Alois Treindl
based on Swiss Ephemeris
Code D5EPX

ASTRODIENST EPHEMERIS for the year 1563
geocentric

JANUARY 1563 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	7 18 42	20 ³ 9'45	12 ⁷ 55	28 ⁷ 8	6 ¹ 55	7 ⁷ 47	28 ⁸ 7	15 ⁸ R36	2 ⁷ 6	3 ⁸ 8	11 ¹ 38	26 ³ 15	26 ³ 35	2 ⁸ 58	8 ³ 0	F 1
S 2	7 22 39	21 ¹⁰ 51	26 ¹⁵	28 ³²	7 ⁵⁰	8 ²⁹	28 ¹¹ 0	15 ³¹	2 ⁹	3 ¹¹ 7	11 ⁴⁰	26 ¹⁵	26 ³²	3 ⁵	8 ⁶	S 2
S 3	7 26 35	22 ¹¹ 57	9 ⁸ 13	29 ¹	8 ⁴⁵	9 ¹⁰	27 ⁵³	15 ²⁶	2 ¹²	3 ⁶	11 ⁴¹	26 ¹⁵	26 ²⁹	3 ¹¹	8 ¹²	S 3
M 4	7 30 32	23 ¹³ 02	21 ⁵²	29 ³⁷	9 ³⁹	9 ⁵²	27 ⁴⁷	15 ²¹	2 ¹⁴	3 ⁵	11 ⁴²	26 ¹⁴	26 ²⁶	3 ¹⁸	8 ¹⁷	M 4
T 5	7 34 28	24 ¹⁴ 06	4 ¹¹ 16	0 ³ 17	10 ³³	10 ³⁴	27 ⁴⁰	15 ¹⁶	2 ¹⁷	3 ⁴	11 ⁴³	26 ¹⁴	26 ²³	3 ²⁵	8 ²³	T 5
W 6	7 38 25	25 ¹⁵ 09	16 ²⁷	1 ²	11 ²⁵	11 ¹⁶	27 ³⁴	15 ¹²	2 ²⁰	3 ³	11 ⁴⁴	26 ¹⁴	26 ¹⁹	3 ³¹	8 ²⁹	W 6
T 7	7 42 21	26 ¹⁶ 11	28 ²⁹	1 ⁵²	12 ¹⁸	11 ⁵⁸	27 ²⁷	15 ⁷	2 ²²	3 ²	11 ⁴⁵	26 ¹⁴	26 ¹⁶	3 ³⁸	8 ³⁵	T 7
F 8	7 46 18	27 ¹⁷ 13	10 ³² 24	2 ⁴⁵	13 ⁹	12 ⁴⁰	27 ²¹	15 ²	2 ²⁵	3 ¹	11 ⁴⁶	26 ¹⁴	26 ¹³	3 ⁴⁵	8 ⁴¹	F 8
S 9	7 50 15	28 ¹⁸ 13	22 ¹⁴	3 ⁴¹	13 ⁵⁹	13 ²²	27 ¹⁵	14 ⁵⁷	2 ²⁷	3 ⁰	11 ⁴⁸	26 ¹⁴	26 ¹⁰	3 ⁵¹	8 ⁴⁶	S 9
S 10	7 54 11	29 ¹⁹ 13	4 ⁸ 3	4 ⁴¹	14 ⁴⁹	14 ⁴	27 ⁹	14 ⁵²	2 ³⁰	3 ⁰	11 ⁴⁹	26 ¹⁴	26 ⁷	3 ⁵⁸	8 ⁵²	S 10
M 11	7 58 8	0 ²⁰ 11	15 ⁵¹	5 ⁴³	15 ³⁸	14 ⁴⁶	27 ⁴	14 ⁴⁸	2 ³²	2 ⁵⁹	11 ⁵⁰	26 ¹⁴	26 ⁴	4 ⁵	8 ⁵⁸	M 11
T 12	8 2 4	1 ²¹ 09	27 ⁴⁰	6 ⁴⁸	16 ²⁶	15 ²⁸	26 ⁵⁸	14 ⁴³	2 ³⁴	2 ⁵⁸	11 ⁵¹	26 ¹³	26 ⁰	4 ¹¹	9 ³	T 12
W 13	8 6 1	2 ²² 06	9 ¹⁰ 35	7 ⁵⁵	17 ¹³	16 ¹⁰	26 ⁵³	14 ³⁹	2 ³⁷	2 ⁵⁸	11 ⁵³	26 ¹²	25 ⁵⁷	4 ¹⁸	9 ⁹	W 13
T 14	8 9 57	3 ²³ 02	21 ³⁶	9 ⁴	17 ⁵⁹	16 ⁵²	26 ⁴⁷	14 ³⁴	2 ³⁹	2 ⁵⁷	11 ⁵⁴	26 ¹¹	25 ⁵⁴	4 ²⁴	9 ¹⁵	T 14
F 15	8 13 54	4 ²³ 57	3 ¹² 48	10 ¹⁶	18 ⁴⁴	17 ³⁴	26 ⁴²	14 ²⁹	2 ⁴¹	2 ⁵⁶	11 ⁵⁵	26 ¹⁰	25 ⁵¹	4 ³¹	9 ²⁰	F 15
S 16	8 17 50	5 ²⁴ 51	16 ¹³	11 ²⁹	19 ²⁸	18 ¹⁶	26 ³⁷	14 ²⁵	2 ⁴³	2 ⁵⁶	11 ⁵⁶	26 ⁹	25 ⁴⁸	4 ³⁸	9 ²⁶	S 16
S 17	8 21 47	6 ²⁵ 45	28 ⁵⁵	12 ⁴³	20 ¹¹	18 ⁵⁹	26 ³³	14 ²¹	2 ⁴⁵	2 ⁵⁵	11 ⁵⁸	26 ⁹	25 ⁴⁴	4 ⁴⁴	9 ³¹	S 17
M 18	8 25 44	7 ²⁶ 38	11 ¹⁸ 58	14 ⁰	20 ⁵²	19 ⁴¹	26 ²⁸	14 ¹⁶	2 ⁴⁸	2 ⁵⁴	11 ⁵⁹	26 ⁹	25 ⁴¹	4 ⁵¹	9 ³⁷	M 18
T 19	8 29 40	8 ²⁷ 30	25 ²⁴	15 ¹⁸	21 ³³	20 ²³	26 ²⁴	14 ¹²	2 ⁵⁰	2 ⁵⁴	12 ⁰	26 ⁹	25 ³⁸	4 ⁵⁸	9 ⁴²	T 19
W 20	8 33 37	9 ²⁸ 21	9 ⁷ 16	16 ³⁷	22 ¹²	21 ⁵	26 ¹⁹	14 ⁸	2 ⁵²	2 ⁵³	12 ²	26 ¹⁰	25 ³⁵	5 ⁴	9 ⁴⁸	W 20
T 21	8 37 33	10 ²⁹ 11	23 ³³	17 ⁵⁷	22 ⁵¹	21 ⁴⁸	26 ¹⁵	14 ³	2 ⁵⁴	2 ⁵³	12 ³	26 ¹¹	25 ³²	5 ¹¹	9 ⁵³	T 21
F 22	8 41 30	11 ³⁰ 01	8 ³ 15	19 ¹⁹	23 ²⁷	22 ³⁰	26 ¹²	13 ⁵⁹	2 ⁵⁵	2 ⁵³	12 ⁵	26 ¹²	25 ²⁹	5 ¹⁸	9 ⁵⁹	F 22
S 23	8 45 26	12 ³⁰ 49	23 ¹⁵	20 ⁴²	24 ³	23 ¹²	26 ⁸	13 ⁵⁵	2 ⁵⁷	2 ⁵²	12 ⁶	26 ¹³	25 ²⁵	5 ²⁴	10 ⁴	S 23
S 24	8 49 23	13 ³¹ 36	8 ²⁶	22 ⁵	24 ³⁷	23 ⁵⁵	26 ⁴	13 ⁵¹	2 ⁵⁹	2 ⁵²	12 ⁷	26 ¹³	25 ²²	5 ³¹	10 ⁹	S 24
M 25	8 53 19	14 ³² 22	23 ⁴⁰	23 ³⁰	25 ¹⁰	24 ³⁷	26 ¹	13 ⁴⁷	3 ¹	2 ⁵²	12 ⁹	26 ¹¹	25 ¹⁹	5 ³⁸	10 ¹⁴	M 25
T 26	8 57 16	15 ³³ 06	8 ¹ 45	24 ⁵⁶	25 ⁴¹	25 ¹⁹	25 ⁵⁸	13 ⁴⁴	3 ³	2 ⁵¹	12 ¹⁰	26 ⁹	25 ¹⁶	5 ⁴⁴	10 ²⁰	T 26
W 27	9 1 13	16 ³³ 48	23 ³³	26 ²³	26 ¹⁰	26 ²	25 ⁵⁵	13 ⁴⁰	3 ⁴	2 ⁵¹	12 ¹²	26 ⁶	25 ¹³	5 ⁵¹	10 ²⁵	W 27
T 28	9 5 9	17 ³⁴ 29	7 ¹ 58	27 ⁵¹	26 ³⁸	26 ⁴⁴	25 ⁵³	13 ³⁶	3 ⁶	2 ⁵¹	12 ¹³	26 ³	25 ¹⁰	5 ⁵⁸	10 ³⁰	T 28
F 29	9 9 6	18 ³⁵ 09	21 ⁵⁵	29 ²⁰	27 ⁴	27 ²⁷	25 ⁵⁰	13 ³³	3 ⁷	2 ⁵¹	12 ¹⁵	26 ¹	25 ⁶	6 ⁴	10 ³⁵	F 29
S 30	9 13 2	19 ³⁵ 46	5 ⁸ 24	0 ⁵⁰	27 ²⁹	28 ⁹	25 ⁴⁸	13 ²⁹	3 ⁹	2 ⁵¹	12 ¹⁶	25 ⁵⁹	25 ³	6 ¹¹	10 ⁴⁰	S 30
S 31	9 16 59	20 ³⁶ 22	18 ⁸ 26	2 ²¹	27 ¹ 51	28 ⁷ 52	25 ¹¹ 46	13 ²⁶	3 ¹⁰	2 ¹¹ 50	12 ¹⁸	25 ⁵⁸	25 ³ 0	6 ¹⁷	10 ⁴⁵	S 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	21s59	9n51	5n 9	20s51	2n38	8s59	0n 0	21s34	0n 5	23n23	0s 6	22n24	0s11	20s29	0n 9	19n13	1s39	20s35	14s31	20s57	20s53	18n59	17s 9	6n 7						
S 2	21 49	15 5	5 18	21 0	2 29	8 32	0 7	21 42	0 5	23 23	0 6	22 25	0 11	20 30	0 9	19 13	1 39	20 34	14 31	20 57	20 54	18 57	17 8	6 7						
S 3	21 40	19 29	5 10	21 10	2 20	8 5	0 14	21 49	0 4	23 23	0 6	22 25	0 11	20 30	0 9	19 13	1 38	20 33	14 31	20 57	20 54	18 54	17 8	6 7						
M 4	21 30	22 53	4 47	21 19	2 10	7 38	0 22	21 56	0 3	23 23	0 6	22 26	0 11	20 31	0 9	19 13	1 38	20 33	14 31	20 57	20 55	18 52	17 7	6 7						
T 5	21 19	25 9	4 11	21 29	2 0	7 11	0 29	22 3	0 2	23 23	0 6	22 27	0 11	20 31	0 9	19 13	1 38	20 32	14 30	20 57	20 56	18 50	17 7	6 8						
W 6	21 8	26 11	3 24	21 39	1 50	6 44	0 37	22 9	0 2	23 23	0 6	22 27	0 10	20 32	0 9	19 13	1 38	20 32	14 30	20 57	20 56	18 47	17 6	6 8						
T 7	20 57	25 58	2 28	21 49	1 40	6 17	0 45	22 16	0 1	23 23	0 6	22 28	0 10	20 32	0 9	19 13	1 38	20 31	14 30	20 57	20 57	18 45	17 6	6 8						
F 8	20 45	24 32	1 27	21 58	1 30	5 50	0 53	22 22	0 0	23 23	0 5	22 29	0 10	20 33	0 9	19 12	1 38	20 30	14 30	20 57	20 57	18 42	17 5	6 8						
S 9	20 33	22 1	0 22	22 6	1 20	5 23	1 1	22 28	0s 0	23 23	0 5	22 29	0 10	20 33	0 9	19 12	1 38	20 30	14 29	20 57	20 58	18 40	17 5	6 8						
S 10	20 21	18 35	0s43	22 14	1 11	4 56	1 9	22 34	0 1	23 23	0 5	22 30	0 10	20 34	0 9	19 12	1 38	20 29	14 29	20 57	20 59	18 37	17 4	6 9						
M11	20 8	14 25	1 47	22 22	1 1	4 29	1 18	22 39	0 2	23 23	0 5	22 31	0 10	20 34	0 9	19 12	1 38	20 28	14 29	20 57	20 59	18 35	17 4	6 9						
T 12	19 54	9 43	2 46	22 28	0 51	4 3	1 26	22 45	0 3	23 23	0 5	22 31	0 10	20 35	0 9	19 12	1 38	20 28	14 29	20 57	21 0	18 33	17 3	6 9						
W13	19 41	4 37	3 38	22 34	0 41	3 36	1 35	22 50	0 3	23 23	0 5	22 32	0 10	20 35	0 9	19 12	1 38	20 27	14 29	20 58	21 0	18 30	17 2	6 9						
T 14	19 27	0s40	4 22	22 39	0 32	3 10	1 44	22 55	0 4	23 23	0 4	22 32	0 10	20 35	0 9	19 12	1 38	20 26	14 28	20 58	21 1	18 28	17 2	6 10						
F 15	19 12	6 0	4 54	22 43	0 23	2 44	1 53	23 0	0 5	23 23	0 4	22 33	0 9	20 36	0 9	19 12	1 38	20 26	14 28	20 58	21 2	18 25	17 1	6 10						
S 16	18 58	11 12	5 13	22 46	0 14	2 18	2 3	23 4	0 6	23 23	0 4	22 34	0 9	20 36	0 9	19 12	1 38	20 25	14 28	20 58	21 2	18 23	17 0	6 10						
S 17	18 43	16 3	5 17	22 48	0 5	1 52	2 12	23 9	0 7	23 23	0 4	22 34	0 9	20 37	0 9	19 12	1 38	20 24	14 28	20 58	21 3	18 21	17 0	6 10						
M18	18 27	20 18	5 5	22 49	0s 4	1 27	2 22	23 13	0 7	23 23	0 4	22 35	0 9	20 37	0 9	19 12	1 38	20 24	14 28	20 58	21 3	18 18	16 59	6 11						
T 19	18 12	23 38	4 37	22 49	0 12	1 2	2 32	23 17	0 8	23 23	0 4	22 35	0 9	20 38	0 9	19 12	1 38	20 23	14 28	20 58	21 4	18 16	16 58	6 11						
W20	17 56	25 43	3 52	22 48	0 20	0 37	2 42	23 21	0 9	23 23	0 4	22 36	0 9	20 38	0 9	19 12	1 38	20 22	14 27	20 58	21 5	18 13	16 58	6 11						
T 21	17 39	26 12	2 51	22 45	0 28	0 13	2 52	23 24	0 10	23 23	0 3	22 37	0 9	20 38	0 9	19 12	1 37	20 21	14 27	20 58	21 5	18 11	16 57	6 12						
F 22	17 22	24 52	1 38	22 41	0 36	0n11	3 2	23 28	0 10	23 23	0 3	22 37	0 9	20 39	0 9	19 11	1 37	20 21	14 27	20 58	21 6	18 8	16 56	6 12						
S 23	17 5	21 46	0 16	22 36	0 43	0 35	3 13	23 31	0 11	23 23	0 3	22 38	0 8	20 39	0 9	19 11	1 37	20 20	14 27	20 58	21 6	18 6	16 56	6 12						
S 24	16 48	17 7	1n 7	22 30	0 50	0 58	3 23	23 34	0 12	23 23	0 3	22 38	0 8	20 39	0 9	19 11	1 37	20 19	14 27	20 58	21 7	18 3	16 55	6 12						
M25	16 31	11 22	2 26	22 23	0 57	1 21	3 34	23 36	0 13	23 23	0 3	22 39	0 8	20 40	0 9	19 11	1 37	20 18	14 27	20 58	21 8	18 1	16 54	6 13						
T 26	16 13	5 0	3 34	22 14	1 4	1 43	3 45	23 39	0 14	23 23	0 3	22 39	0 8	20 40	0 9	19 11	1 37	20 18	14 27	20 58	21 8	17 58	16 54	6 13						
W27	15 55	1n31	4 26	22 4	1 10	2 5	3 56	23 41	0 15	23 23	0 3	22 40	0 8	20 40	0 9	19 11	1 37	20 17	14 26	20 59	21 9	17 56	16 53	6 13						
T 28	15 36	7 45	5 0	21 53	1 16	2 26	4 7	23 43	0 15	23 24	0 2	22 40	0 8	20 41	0 9	19 12	1 37	20 17	14 26	20 59	21 9	17 53	16 52	6 14						
F 29	15 18	13 25	5 15	21 40	1 22	2 47	4 18	23 45	0 16	23 24	0 2	22 41	0 8	20 41	0 9	19 12	1 37	20 16	14 26	21 0	21 10	17 51	16 51	6 14						
S 30	14 59	18 14	5 11	21 26	1 27	3 7	4 30	23 46	0 17	23 24	0 2	22 41	0 8	20 41	0 9	19 12	1 37	20 15	14 26	21 0	21 10	17 49	16 51	6 15						
S 31	14s39	22n 1	4n52	21s11	1s32	3n26	4n41	23s47	0s18	23n24	0s 2	22n42	0s 8	20s42	0n 9	19n12	1s37	20s15	14s26	21s 0	21s11	17n46	16s50	6n15						

ASTRODIENST EPHEMERIS for the year 1563

geocentric

FEBRUARY 1563 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	9 20 55	21 ³⁶ 56	1 ¹¹ 5	3 ³⁶ 53	28 ¹¹ 12	29 ¹⁷ 35	25 ⁰ R44	13 ⁰ R22	3 ¹⁷ 12	2 ⁰ R50	12 ¹¹ 19	25 ³⁵ 59	24 ³⁵ 57	6 ⁰ 24	10 ³⁵ 50	M 1
T 2	9 24 52	22 ³⁷ 28	13 ⁰ 24	5 ⁰ 25	28 ⁰ 31	0 ³ 17	25 ¹¹ 42	13 ⁰ 19	3 ⁰ 13	2 ⁰ D50	12 ⁰ 21	26 ⁰ 0	24 ⁰ 54	6 ⁰ 31	10 ⁰ 55	T 2
W 3	9 28 48	23 ³⁷ 59	25 ⁰ 29	6 ⁰ 59	28 ⁰ 47	1 ⁰ 0	25 ⁰ 40	13 ⁰ 16	3 ⁰ 14	2 ⁰ II50	12 ⁰ 22	26 ⁰ 2	24 ⁰ 50	6 ⁰ 37	11 ⁰ 0	W 3
T 4	9 32 45	24 ³⁸ 28	7 ⁰ 24	8 ⁰ 34	29 ⁰ 2	1 ⁰ 42	25 ⁰ 39	13 ⁰ 13	3 ⁰ 16	2 ⁰ 50	12 ⁰ 24	26 ⁰ 3	24 ⁰ 47	6 ⁰ 44	11 ⁰ 5	T 4
F 5	9 36 42	25 ³⁸ 54	19 ⁰ 12	10 ⁰ 9	29 ⁰ 14	2 ⁰ 25	25 ⁰ 38	13 ⁰ 10	3 ⁰ 17	2 ⁰ 50	12 ⁰ 25	26 ⁰ 5	24 ⁰ 44	6 ⁰ 51	11 ⁰ 9	F 5
S 6	9 40 38	26 ³⁹ 19	0 ⁰ 59	11 ⁰ 45	29 ⁰ 24	3 ⁰ 8	25 ⁰ 37	13 ⁰ 7	3 ⁰ 18	2 ⁰ 51	12 ⁰ 27	26 ⁰ R 5	24 ⁰ 41	6 ⁰ 57	11 ⁰ 14	S 6
S 7	9 44 35	27 ³⁹ 42	12 ⁰ 47	13 ⁰ 23	29 ⁰ 32	3 ⁰ 50	25 ⁰ 36	13 ⁰ 4	3 ⁰ 19	2 ⁰ 51	12 ⁰ 28	26 ⁰ 3	24 ⁰ 38	7 ⁰ 4	11 ⁰ 19	S 7
M 8	9 48 31	28 ⁴⁰ 04	24 ⁰ 38	15 ⁰ 1	29 ⁰ 37	4 ⁰ 33	25 ⁰ 36	13 ⁰ 1	3 ⁰ 20	2 ⁰ 51	12 ⁰ 30	26 ⁰ 0	24 ⁰ 35	7 ⁰ 11	11 ⁰ 23	M 8
T 9	9 52 28	29 ⁴⁰ 23	6 ⁰ 34	16 ⁰ 40	29 ⁰ 41	5 ⁰ 16	25 ⁰ 36	12 ⁰ 59	3 ⁰ 21	2 ⁰ 51	12 ⁰ 31	25 ⁰ 56	24 ⁰ 31	7 ⁰ 17	11 ⁰ 28	T 9
W10	9 56 24	0 ⁰ 40'41	18 ⁰ 38	18 ⁰ 20	29 ⁰ R41	5 ⁰ 59	25 ⁰ D35	12 ⁰ 56	3 ⁰ 22	2 ⁰ 51	12 ⁰ 33	25 ⁰ 50	24 ⁰ 28	7 ⁰ 24	11 ⁰ 32	W10
T 11	10 0 21	1 ⁰ 40'58	0 ⁰ 51	20 ⁰ 2	29 ⁰ 39	6 ⁰ 41	25 ⁰ 36	12 ⁰ 54	3 ⁰ 23	2 ⁰ 52	12 ⁰ 34	25 ⁰ 43	24 ⁰ 25	7 ⁰ 31	11 ⁰ 37	T 11
F 12	10 4 17	2 ⁰ 41'12	13 ⁰ 13	21 ⁰ 44	29 ⁰ 35	7 ⁰ 24	25 ⁰ 36	12 ⁰ 51	3 ⁰ 24	2 ⁰ 52	12 ⁰ 36	25 ⁰ 36	24 ⁰ 22	7 ⁰ 37	11 ⁰ 41	F 12
S 13	10 8 14	3 ⁰ 41'25	25 ⁰ 47	23 ⁰ 27	29 ⁰ 28	8 ⁰ 7	25 ⁰ 36	12 ⁰ 49	3 ⁰ 25	2 ⁰ 52	12 ⁰ 37	25 ⁰ 30	24 ⁰ 19	7 ⁰ 44	11 ⁰ 45	S 13
S 14	10 12 10	4 ⁰ 41'37	8 ⁰ 35	25 ⁰ 11	29 ⁰ 19	8 ⁰ 50	25 ⁰ 37	12 ⁰ 47	3 ⁰ 25	2 ⁰ 53	12 ⁰ 39	25 ⁰ 26	24 ⁰ 16	7 ⁰ 51	11 ⁰ 50	S 14
M15	10 16 7	5 ⁰ 41'47	21 ⁰ 39	26 ⁰ 57	29 ⁰ 7	9 ⁰ 33	25 ⁰ 38	12 ⁰ 45	3 ⁰ 26	2 ⁰ 53	12 ⁰ 41	25 ⁰ 23	24 ⁰ 12	7 ⁰ 57	11 ⁰ 54	M15
T 16	10 20 4	6 ⁰ 41'55	5 ⁰ 0	28 ⁰ 43	28 ⁰ 53	10 ⁰ 16	25 ⁰ 39	12 ⁰ 43	3 ⁰ 27	2 ⁰ 53	12 ⁰ 42	25 ⁰ D22	24 ⁰ 9	8 ⁰ 4	11 ⁰ 58	T 16
W17	10 24 0	7 ⁰ 42'02	18 ⁰ 41	0 ⁰ 31	28 ⁰ 36	10 ⁰ 59	25 ⁰ 40	12 ⁰ 41	3 ⁰ 27	2 ⁰ 54	12 ⁰ 44	25 ⁰ 22	24 ⁰ 6	8 ⁰ 10	12 ⁰ 2	W17
T 18	10 27 57	8 ⁰ 42'07	2 ⁰ 42	2 ⁰ 19	28 ⁰ 17	11 ⁰ 42	25 ⁰ 42	12 ⁰ 40	3 ⁰ 28	2 ⁰ 54	12 ⁰ 45	25 ⁰ 24	24 ⁰ 3	8 ⁰ 17	12 ⁰ 6	T 18
F 19	10 31 53	9 ⁰ 42'11	17 ⁰ 5	4 ⁰ 9	27 ⁰ 55	12 ⁰ 25	25 ⁰ 43	12 ⁰ 38	3 ⁰ 28	2 ⁰ 55	12 ⁰ 47	25 ⁰ 25	24 ⁰ 0	8 ⁰ 24	12 ⁰ 10	F 19
S 20	10 35 50	10 ⁰ 42'13	1 ⁰ 46	6 ⁰ 0	27 ⁰ 32	13 ⁰ 8	25 ⁰ 45	12 ⁰ 37	3 ⁰ 29	2 ⁰ 56	12 ⁰ 48	25 ⁰ R25	23 ⁰ 56	8 ⁰ 30	12 ⁰ 14	S 20
S 21	10 39 46	11 ⁰ 42'14	16 ⁰ 41	7 ⁰ 52	27 ⁰ 6	13 ⁰ 51	25 ⁰ 47	12 ⁰ 35	3 ⁰ 29	2 ⁰ 56	12 ⁰ 50	25 ⁰ 23	23 ⁰ 53	8 ⁰ 37	12 ⁰ 18	S 21
M22	10 43 43	12 ⁰ 42'12	1 ⁰ 43	9 ⁰ 44	26 ⁰ 38	14 ⁰ 34	25 ⁰ 49	12 ⁰ 34	3 ⁰ 29	2 ⁰ 57	12 ⁰ 52	25 ⁰ 19	23 ⁰ 50	8 ⁰ 44	12 ⁰ 22	M22
T 23	10 47 40	13 ⁰ 42'09	16 ⁰ 43	11 ⁰ 38	26 ⁰ 8	15 ⁰ 17	25 ⁰ 52	12 ⁰ 33	3 ⁰ 30	2 ⁰ 58	12 ⁰ 53	25 ⁰ 13	23 ⁰ 47	8 ⁰ 50	12 ⁰ 26	T 23
W24	10 51 36	14 ⁰ 42'03	1 ⁰ 32	13 ⁰ 33	25 ⁰ 37	16 ⁰ 0	25 ⁰ 54	12 ⁰ 32	3 ⁰ 30	2 ⁰ 58	12 ⁰ 55	25 ⁰ 5	23 ⁰ 44	8 ⁰ 57	12 ⁰ 29	W24
T 25	10 55 33	15 ⁰ 41'56	16 ⁰ 2	15 ⁰ 29	25 ⁰ 4	16 ⁰ 43	25 ⁰ 57	12 ⁰ 31	3 ⁰ 30	2 ⁰ 59	12 ⁰ 56	24 ⁰ 57	23 ⁰ 41	9 ⁰ 4	12 ⁰ 33	T 25
F 26	10 59 29	16 ⁰ 41'46	0 ⁰ 7	17 ⁰ 26	24 ⁰ 29	17 ⁰ 26	26 ⁰ 0	12 ⁰ 30	3 ⁰ 30	3 ⁰ 0	12 ⁰ 58	24 ⁰ 49	23 ⁰ 37	9 ⁰ 10	12 ⁰ 36	F 26
S 27	11 3 26	17 ⁰ 41'34	13 ⁰ 44	19 ⁰ 24	23 ⁰ 53	18 ⁰ 9	26 ⁰ 3	12 ⁰ 29	3 ⁰ R30	3 ⁰ 1	12 ⁰ 59	24 ⁰ 43	23 ⁰ 34	9 ⁰ 17	12 ⁰ 40	S 27
S 28	11 7 22	18 ⁰ 41'20	26 ⁰ 52	21 ⁰ 42	23 ⁰ 17	18 ⁰ 53	26 ⁰ II 7	12 ⁰ 29	3 ⁰ 30	3 ⁰ II 1	13 ⁰ 1	24 ⁰ 38	23 ⁰ 31	9 ⁰ 24	12 ⁰ 43	S 28

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
M 1	14s20	24n38	4n18	20s54	1s37	3n45	4n52	23s49	0s19	23n24	0s 2	22n42	0s 7	20s42	0n 9	19n12
T 2	14 0	26 0	3 34	20 36	1 42	4 3	5 4	23 49	0 20	23 24	0 2	22 42	0 7	20 42	0 9	19 12
W 3	13 40	26 6	2 41	20 17	1 46	4 20	5 15	23 50	0 21	23 24	0 2	22 43	0 7	20 42	0 9	19 12
T 4	13 20	24 58	1 41	19 56	1 50	4 37	5 27	23 51	0 21	23 24	0 1	22 43	0 7	20 43	0 9	19 12
F 5	13 0	22 44	0 38	19 34	1 53	4 52	5 39	23 51	0 22	23 24	0 1	22 44	0 7	20 43	0 9	19 12
S 6	12 40	19 33	0s27	19 10	1 56	5 7	5 50	23 51	0 23	23 24	0 1	22 44	0 7	20 43	0 9	19 12
S 7	12 19	15 34	1 30	18 45	1 59	5 20	6 2	23 51	0 24	23 24	0 1	22 45	0 7	20 43	0 9	19 12
M 8	11 58	10 59	2 30	18 18	2 2	5 33	6 13	23 50	0 25	23 24	0 1	22 45	0 7	20 43	0 9	19 12
T 9	11 37	5 58	3 23	17 51	2 4	5 45	6 24	23 49	0 26	23 25	0 1	22 45	0 7	20 44	0 9	19 12
W10	11 16	0 42	4 8	17 21	2 5	5 55	6 36	23 48	0 27	23 25	0 1	22 46	0 6	20 44	0 9	19 12
T 11	10 54	4s39	4 42	16 50	2 7	6 5	6 47	23 47	0 28	23 25	0 1	22 46	0 6	20 44	0 9	19 12
F 12	10 33	9 53	5 4	16 18	2 7	6 13	6 57	23 46	0 29	23 25	0 0	22 46	0 6	20 44	0 9	19 13
S 13	10 11	14 48	5 11	15 45	2 8	6 20	7 8	23 44	0 29	23 25	0 0	22 47	0 6	20 44	0 9	19 13
S 14	9 49	19 10	5 3	15 10	2 8	6 25	7 18	23 42	0 30	23 25	0 0	22 47	0 6	20 44	0 9	19 13
M15	9 27	22 42	4 39	14 33	2 7	6 30	7 28	23 40	0 31	23 25	0 0	22 47	0 6	20 45	0 9	19 13
T 16	9 4	25 7	4 0	13 55	2 7	6 33	7 37	23 38	0 32	23 26	0n 0	22 48	0 6	20 45	0 9	19 13
W17	8 42	26 6	3 6	13 16	2 5	6 34	7 46	23 36	0 33	23 26	0 0	22 48	0 6	20 45	0 9	19 13
T 18	8 20	25 28	2 0	12 35	2 3	6 34	7 55	23 33	0 34	23 26	0 0	22 48	0 5	20 45	0 9	19 13
F 19	7 57	23 9	0 45	11 53	2 1	6 33	8 3	23 30	0 35	23 26	0 0	22 48	0 5	20 45	0 9	19 14
S 20	7 34	19 16	0n34	11 10	1 58	6 30	8 10	23 27	0 36	23 26	0 1	22 49	0 5	20 45	0 9	19 14
S 21	7 11	14 5	1 52	10 25	1 55	6 26	8 17	23 23	0 37	23 27	0 1	22 49	0 5	20 45	0 9	19 14
M22	6 48	8 2	3 3	9 39	1 51	6 21	8 23	23 20	0 38	23 27	0 1	22 49	0 5	20 45	0 9	19 14
T 23	6 25	1 33	4 1	8 51	1 46	6 14	8 28	23 16	0 39	23 27	0 1	22 49	0 5	20 45	0 9	19 14
W24	6 2	4n55	4 42	8 3	1 42	6 5	8 32	23 12	0 40	23 27	0 1	22 50	0 5	20 45	0 9	19 15
T 25	5 39	10 59	5 4	7 13	1 36	5 55	8 36	23 7	0 41	23 27	0 1	22 50	0 5	20 45	0 9	19 15
F 26	5 16	16 18	5 6	6 21	1 30	5 44	8 39	23 3	0 42	23 28	0 1	22 50	0 5	20 45	0 9	19 15
S 27	4 53	20 37	4 51	5 29	1 23	5 32	8 40	22 58	0 43	23 28	0 1	22 50	0 4	20 45	0 9	19 15
S 28	4s29	23n43	4n20	4s36	1s16	5n18	8n41	22s53	0s44	23n28	0n 2	22n50	0s 4	20s45	0n 9	19n15

Julian Day Number = 2291974.5, Delta T = 152.29 sec

Ecliptic obliquity = 23°29'50, Nutation = 0°00'17, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 18°38'36, Lahiri = 17°45'37 Julian Calendar 1 Feb. 1

ASTRODIENST EPHEMERIS for the year 1563

geocentric

MARCH 1563 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	11 11 19	19°41'04	9°35'	23°41'	22°40'	19°36'	26°11'	12°28'	3°R30	3°II 2	13°41'	24°R36	23°328	9°230	12°346	M 1
T 2	11 15 15	20°40'46	21°57'	25°21'	22°41'	20°19'	26°14'	12°28'	3°R30	3° 3	13° 4	24°D35	23°25	9°37'	12°50'	T 2
W 3	11 19 12	21°40'25	4°52'	27°21'	21°24'	21° 2	26°18'	12°27'	3°30	3° 4	13° 6	24°R36	23°22	9°44'	12°53'	W 3
T 4	11 23 8	22°40'02	15°55'	29°21'	20°47'	21°45'	26°22'	12°27'	3°29	3° 5	13° 7	24°R37	23°18	9°50'	12°56'	T 4
F 5	11 27 5	23°39'37	27°43'	1°21'	20° 9	22°28'	26°26'	12°D27	3°29	3° 6	13° 9	24°R37	23°15	9°57'	12°59'	F 5
S 6	11 31 2	24°39'09	9°29'	3°21'	19°32'	23°12'	26°31'	12°27'	3°29	3° 7	13°10'	24°36	23°12	10° 4	13° 2	S 6
S 7	11 34 58	25°38'39	21°19'	5°20'	18°56'	23°55'	26°35'	12°28'	3°28	3° 8	13°12'	24°32	23° 9	10°10'	13° 5	S 7
M 8	11 38 55	26°38'07	3°15'	7°18'	18°21'	24°38'	26°40'	12°28'	3°28	3° 9	13°14'	24°26	23° 6	10°17'	13° 8	M 8
T 9	11 42 51	27°37'33	15°20'	9°15'	17°48'	25°22'	26°45'	12°28'	3°27	3°10	13°15'	24°17	23° 2	10°23'	13°10'	T 9
W10	11 46 48	28°36'56	27°36'	11°10'	17°15'	26° 5	26°50'	12°29'	3°27	3°12	13°17'	24° 7	22°59'	10°30'	13°13'	W10
T 11	11 50 44	29°36'18	10°44'	13° 2	16°45'	26°48'	26°55'	12°29'	3°26	3°13	13°18'	23°55	22°56	10°37'	13°16'	T 11
F 12	11 54 41	0°35'37	22°44'	14°53'	16°16'	27°31'	27° 1	12°30'	3°26	3°14	13°20'	23°43	22°53	10°43'	13°18'	F 12
S 13	11 58 37	1°34'55	5°36'	16°40'	15°49'	28°15'	27° 6	12°31'	3°25	3°15	13°21'	23°32	22°50	10°50'	13°21'	S 13
S 14	12 2 34	2°34'10	18°39'	18°24'	15°25'	28°58'	27°12'	12°32'	3°24	3°17	13°23'	23°23	22°47	10°57'	13°23'	S 14
M15	12 6 31	3°33'24	1°54'	20° 5	15° 2	29°42'	27°18'	12°33'	3°23	3°18	13°24'	23°16	22°43	11° 3	13°25'	M15
T 16	12 10 27	4°32'36	15°21'	21°41'	14°42'	0°25'	27°24'	12°34'	3°23	3°19	13°26'	23°12	22°40	11°10'	13°27'	T 16
W17	12 14 24	5°31'47	29° 2	23°13'	14°25'	1° 8	27°30'	12°35'	3°22	3°21	13°27'	23°11	22°37	11°17'	13°30'	W17
T 18	12 18 20	6°30'55	12°35'	24°40'	14° 9	1°52'	27°36'	12°37'	3°21	3°22	13°29'	23°D11	22°34	11°23'	13°32'	T 18
F 19	12 22 17	7°30'02	27° 4	26° 2	13°57'	2°35'	27°43'	12°38'	3°20	3°23	13°30'	23°R11	22°31	11°30'	13°34'	F 19
S 20	12 26 13	8°29'07	11°25'	27°18'	13°46'	3°19'	27°50'	12°40'	3°19	3°25	13°32'	23°10	22°27	11°37'	13°35'	S 20
S 21	12 30 10	9°28'10	25°57'	28°29'	13°38'	4° 2	27°56'	12°42'	3°18	3°26	13°33'	23° 7	22°24	11°43'	13°37'	S 21
M22	12 34 6	10°27'12	10°36'	29°34'	13°33'	4°45'	28° 3	12°43'	3°16	3°28	13°34'	23° 1	22°21	11°50'	13°39'	M22
T 23	12 38 3	11°26'11	25°15'	0°32'	13°30'	5°29'	28°11'	12°45'	3°15	3°29	13°36'	22°52	22°18	11°57'	13°41'	T 23
W24	12 42 0	12°25'09	9°48'	1°25'	13°D29	6°12'	28°18'	12°47'	3°14	3°31	13°37'	22°41	22°15	12° 3	13°42'	W24
T 25	12 45 56	13°24'04	24° 7	2°11'	13°31'	6°56'	28°25'	12°50'	3°13	3°32	13°39'	22°29	22°12	12°10'	13°44'	T 25
F 26	12 49 53	14°22'58	8° 5	2°51'	13°35'	7°39'	28°33'	12°52'	3°11	3°34	13°40'	22°18	22° 8	12°17'	13°45'	F 26
S 27	12 53 49	15°21'49	21°40'	3°25'	13°42'	8°23'	28°40'	12°54'	3°10	3°35	13°41'	22° 8	22° 5	12°23'	13°47'	S 27
S 28	12 57 46	16°20'38	4°50'	3°52'	13°50'	9° 6	28°48'	12°57'	3° 9	3°37	13°43'	22° 0	22° 2	12°30'	13°48'	S 28
M29	13 1 42	17°19'25	17°35'	4°12'	14° 1	9°50'	28°56'	12°59'	3° 7	3°39	13°44'	21°55	21°59	12°37'	13°49'	M29
T 30	13 5 39	18°18'10	29°59'	4°26'	14°14'	10°33'	29° 4	13° 2	3° 6	3°40	13°46'	21°52	21°56	12°43'	13°50'	T 30
W31	13 9 35	19°16'53	12°56'	4°34'	14°29'	11°16'	29°12'	13°55'	3°47	3°42	13°47'	21°51	21°53	12°50'	13°51'	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	4s 6	25n32	3n38	3s41	1s 8	5n 3	8n41	22s48	0s45	23n28	0n 2	22n50	0s 4	20s45	0n 9	19n16
T 2	3 42	26 1	2 46	2 46	1 0	4 47	8 40	22 43	0 46	23 28	0 2	22 51	0 4	20 45	0 9	19 16
W 3	3 19	25 14	1 48	1 50	0 51	4 31	8 38	22 37	0 47	23 29	0 2	22 51	0 4	20 45	0 9	19 16
T 4	2 55	23 19	0 47	0 54	0 42	4 13	8 34	22 31	0 48	23 29	0 2	22 51	0 4	20 45	0 9	19 16
F 5	2 31	20 24	0s17	0n 3	0 32	3 55	8 30	22 25	0 49	23 29	0 2	22 51	0 4	20 45	0 9	19 17
S 6	2 8	16 39	1 19	1 0	0 22	3 36	8 26	22 19	0 50	23 29	0 2	22 51	0 4	20 45	0 9	19 17
S 7	1 44	12 15	2 18	1 57	0 11	3 16	8 20	22 13	0 51	23 30	0 2	22 51	0 4	20 45	0 9	19 17
M 8	1 20	7 22	3 11	2 54	0n 0	2 57	8 13	22 6	0 52	23 30	0 2	22 51	0 3	20 45	0 9	19 17
T 9	0 57	2 10	3 56	3 51	0 12	2 37	8 5	21 59	0 53	23 30	0 3	22 51	0 3	20 45	0 9	19 18
W10	0 33	3s12	4 31	4 47	0 24	2 17	7 57	21 52	0 54	23 30	0 3	22 51	0 3	20 45	0 9	19 18
T 11	0 9	8 30	4 54	5 42	0 36	1 57	7 48	21 45	0 55	23 30	0 3	22 51	0 3	20 45	0 9	19 18
F 12	0n14	13 32	5 2	6 37	0 48	1 37	7 39	21 37	0 56	23 31	0 3	22 51	0 3	20 45	0 9	19 18
S 13	0 38	18 4	4 56	7 29	1 0	1 17	7 28	21 30	0 57	23 31	0 3	22 51	0 3	20 44	0 9	19 19
S 14	1 1	21 48	4 34	8 20	1 12	0 58	7 18	21 22	0 58	23 31	0 3	22 51	0 3	20 44	0 9	19 19
M15	1 25	24 28	3 57	9 10	1 24	0 39	7 7	21 14	0 59	23 31	0 3	22 51	0 3	20 44	0 9	19 19
T 16	1 49	25 47	3 7	9 57	1 36	0 21	6 55	21 5	1 0	23 32	0 3	22 51	0 3	20 44	0 9	19 20
W17	2 12	25 34	2 5	10 42	1 47	0 3	6 43	20 57	1 1	23 32	0 3	22 51	0 3	20 44	0 9	19 20
T 18	2 36	23 46	0 54	11 24	1 58	0s14	6 31	20 48	1 2	23 32	0 4	22 51	0 2	20 44	0 9	19 20
F 19	2 59	20 28	0n21	12 4	2 8	0 31	6 18	20 40	1 3	23 32	0 4	22 51	0 2	20 43	0 9	19 21
S 20	3 22	15 53	1 35	12 41	2 18	0 46	6 6	20 31	1 4	23 32	0 4	22 51	0 2	20 43	0 9	19 21
S 21	3 46	10 19	2 44	13 15	2 27	1 1	5 53	20 21	1 6	23 33	0 4	22 51	0 2	20 43	0 9	19 21
M22	4 9	4 10	3 43	13 46	2 36	1 15	5 40	20 12	1 7	23 33	0 4	22 51	0 2	20 43	0 9	19 22
T 23	4 32	2n12	4 27	14 14	2 43	1 28	5 27	20 2	1 8	23 33	0 4	22 51	0 2	20 43	0 9	19 22
W24	4 55	8 23	4 53	14 39	2 50	1 40	5 14	19 53	1 9	23 33	0 4	22 51	0 2	20 42	0 9	19 22
T 25	5 18	14 2	5 1	15 0	2 55	1 52	5 1	19 43	1 10	23 33	0 4	22 51	0 2	20 42	0 9	19 23
F 26	5 41	18 48	4 50	15 18	3 0	2 2	4 48	19 33	1 11	23 34	0 4	22 51	0 2	20 42	0 9	19 23
S 27	6 4	22 27	4 22	15 33	3 3	2 12	4 35	19 22	1 12	23 34	0 4	22 51	0 1	20 42	0 9	19 23
S 28	6 27	24 47	3 42	15 45	3 6	2 20	4 22	19 12	1 13	23 34	0 5	22 51	0 1	20 41	0 9	19 24
M29	6 49	25 45	2 51	15 52	3 7	2 28	4 10	19 1	1 14	23 34	0 5	22 50	0 1	20 41	0 9	19 24
T 30	7 12	25 23	1 53	15 57	3 6	2 34	3 57	18 51	1 15	23 34	0 5	22 50	0 1	20 41	0 9	19 24
W31	7n34	23n48	0n51	15n58	3n 5	2s40	3n45	18s40	1s16	23n35	0n 5	22n50	0s 1	20s41	0n 9	19n25

Julian Day Number = 2292002.5, Delta T = 152.13 sec

Ecliptic obliquity = 23°29'50, Nutation = 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 18°38'40, Lahiri = 17°45'41 Julian Calendar 1 March 1563 == Greg. Calendar 11 March 1563

ASTRODIENST EPHEMERIS for the year 1563

geocentric

APRIL 1563 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	13 13 32	20°15'33	24°15'33	4°R35	14°K46	12°00	29°II21	13°07	3°R 3	3°II44	13°K48	21°R51	21°049	12°056	13°052	T 1
F 2	13 17 29	21°14'11	5°050	4°B30	15° 4	12°43	29°29	13°10	3°R 1	3°46	13°50	21°051	21°46	13° 3	13°53	F 2
S 3	13 21 25	22°12'47	17°38	4°20	15°25	13°27	29°38	13°13	2°59	3°47	13°51	21°49	21°43	13°10	13°54	S 3
S 4	13 25 22	23°11'20	29°30	4° 4	15°47	14°10	29°46	13°17	2°58	3°49	13°52	21°45	21°40	13°16	13°54	S 4
M 5	13 29 18	24° 9'52	11°032	3°43	16°11	14°54	29°55	13°20	2°56	3°51	13°53	21°38	21°37	13°23	13°55	M 5
T 6	13 33 15	25° 8'21	23°45	3°17	16°37	15°37	0°00	13°23	2°54	3°53	13°55	21°29	21°33	13°30	13°55	T 6
W 7	13 37 11	26° 6'48	6°13	2°48	17° 5	16°20	0°13	13°27	2°52	3°55	13°56	21°18	21°30	13°36	13°56	W 7
T 8	13 41 8	27° 5'13	18°05	2°15	17°34	17° 4	0°22	13°30	2°51	3°56	13°57	21° 5	21°27	13°43	13°56	T 8
F 9	13 45 4	28° 3'37	1°055	1°39	18° 4	17°47	0°31	13°34	2°49	3°58	13°58	20°52	21°24	13°50	13°56	F 9
S 10	13 49 1	29° 1'58	15° 8	1° 1	18°36	18°31	0°41	13°37	2°47	4° 0	14° 0	20°40	21°21	13°56	13°57	S 10
S 11	13 52 57	0°018	28°34	0°22	19° 9	19°14	0°50	13°41	2°45	4° 2	14° 1	20°30	21°18	14° 3	13°57	S 11
M12	13 56 54	0°58'36	12°110	29°Y42	19°44	19°57	1° 0	13°45	2°43	4° 4	14° 2	20°23	21°14	14°10	13°R57	M12
T 13	14 0 51	1°56'53	25°55	29° 2	20°20	20°41	1° 9	13°49	2°41	4° 6	14° 3	20°19	21°11	14°16	13°57	T 13
W14	14 4 47	2°55'08	9°348	28°22	20°57	21°24	1°19	13°53	2°39	4° 8	14° 4	20°17	21° 8	14°23	13°56	W14
T 15	14 8 44	3°53'22	23°47	27°45	21°35	22° 8	1°29	13°57	2°37	4°10	14° 5	20°D16	21° 5	14°30	13°56	T 15
F 16	14 12 40	4°51'34	7°551	27° 9	22°15	22°51	1°39	14° 2	2°35	4°12	14° 6	20°R17	21° 2	14°36	13°56	F 16
S 17	14 16 37	5°49'44	22° 1	26°36	22°55	23°34	1°49	14° 6	2°33	4°14	14° 7	20°16	20°59	14°43	13°55	S 17
S 18	14 20 33	6°47'54	6°K15	26° 6	23°37	24°18	1°59	14°10	2°31	4°16	14° 8	20°13	20°55	14°50	13°55	S 18
M19	14 24 30	7°46'01	20°30	25°40	24°20	25° 1	2°10	14°15	2°28	4°18	14°10	20° 7	20°52	14°56	13°54	M19
T 20	14 28 26	8°44'07	4°Y43	25°18	25° 3	25°44	2°20	14°19	2°26	4°20	14°11	19°59	20°49	15° 3	13°54	T 20
W21	14 32 23	9°42'12	18°50	24°59	25°48	26°27	2°30	14°24	2°24	4°22	14°12	19°50	20°46	15°10	13°53	W21
T 22	14 36 20	10°40'15	2°B46	24°46	26°33	27°11	2°41	14°29	2°22	4°24	14°13	19°38	20°43	15°16	13°52	T 22
F 23	14 40 16	11°38'17	16°26	24°36	27°19	27°54	2°52	14°34	2°20	4°26	14°13	19°28	20°39	15°23	13°51	F 23
S 24	14 44 13	12°36'17	29°47	24°D32	28° 6	28°37	3° 2	14°39	2°17	4°28	14°14	19°18	20°36	15°30	13°50	S 24
S 25	14 48 9	13°34'15	12°II48	24°32	28°54	29°20	3°13	14°44	2°15	4°31	14°15	19°11	20°33	15°36	13°49	S 25
M26	14 52 6	14°32'12	25°28	24°37	29°43	0°K 3	3°24	14°49	2°13	4°33	14°16	19° 6	20°30	15°43	13°48	M26
T 27	14 56 2	15°30'07	7°050	24°46	0°Y32	0°47	3°35	14°54	2°10	4°35	14°17	19° 3	20°27	15°50	13°47	T 27
W28	14 59 59	16°28'00	19°57	25° 0	1°22	1°30	3°46	14°59	2° 8	4°37	14°18	19°D 2	20°24	15°56	13°46	W28
T 29	15 3 56	17°25'52	1°053	25°18	2°13	2°13	3°57	15° 4	2° 6	4°39	14°19	19° 3	20°20	16° 3	13°45	T 29
F 30	15 7 52	18°23'42	13°043	25°Y41	3°Y 4	2°K56	4°09	15°010	2°R 3	4°II41	14°K20	19°R 4	20°017	16°010	13°043	F 30

Day	☉	☽		♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	7n56	21n10	0s11	15n55	3n 1	2s45	3n32	18s29	1s18	23n35	0n 5	22n50	0s 1	20s40	0n 9	19n25	1s34	19s43	14s30	21s43	21s43	15n11	16s 2	6n46	
F 2	8 18	17 40	1 13	15 50	2 57	2 49	3 20	18 17	1 19	23 35	0 5	22 50	0 1	20 40	0 9	19 25	1 34	19 42	14 30	21 43	21 44	15 9	16 2	6 47	
S 3	8 40	13 29	2 12	15 40	2 51	2 52	3 9	18 6	1 20	23 35	0 5	22 49	0 1	20 40	0 9	19 26	1 33	19 42	14 30	21 44	21 44	15 6	16 1	6 47	
S 4	9 2	8 47	3 5	15 28	2 44	2 54	2 57	17 54	1 21	23 35	0 5	22 49	0 1	20 39	0 9	19 26	1 33	19 42	14 31	21 44	21 45	15 3	16 0	6 48	
M 5	9 24	3 42	3 51	15 13	2 35	2 55	2 45	17 43	1 22	23 35	0 5	22 49	0 1	20 39	0 9	19 26	1 33	19 41	14 31	21 45	21 45	15 1	16 0	6 49	
T 6	9 45	1s35	4 26	14 54	2 25	2 56	2 34	17 31	1 23	23 35	0 5	22 49	0 1	20 39	0 9	19 27	1 33	19 41	14 31	21 47	21 46	14 58	15 59	6 49	
W 7	10 6	6 55	4 50	14 33	2 13	2 55	2 23	17 19	1 24	23 35	0 5	22 49	0 0	20 38	0 9	19 27	1 33	19 41	14 31	21 48	21 46	14 55	15 58	6 50	
T 8	10 28	12 3	5 0	14 10	2 1	2 54	2 12	17 7	1 25	23 35	0 6	22 48	0 0	20 38	0 9	19 28	1 33	19 41	14 32	21 50	21 47	14 53	15 58	6 50	
F 9	10 49	16 46	4 55	13 45	1 47	2 52	2 2	16 55	1 26	23 35	0 6	22 48	0 0	20 38	0 9	19 28	1 33	19 40	14 32	21 52	21 47	14 50	15 57	6 51	
S 10	11 9	20 46	4 34	13 18	1 32	2 49	1 51	16 42	1 28	23 35	0 6	22 48	0 0	20 37	0 9	19 28	1 33	19 40	14 32	21 54	21 48	14 47	15 56	6 52	
S 11	11 30	23 45	3 57	12 49	1 17	2 45	1 41	16 30	1 29	23 36	0 6	22 47	0 0	20 37	0 9	19 29	1 33	19 40	14 32	21 56	21 48	14 44	15 56	6 52	
M12	11 50	25 24	3 7	12 20	1 0	2 41	1 31	16 17	1 30	23 36	0 6	22 47	0n 0	20 36	0 9	19 29	1 33	19 40	14 33	21 57	21 49	14 42	15 55	6 53	
T 13	12 11	25 31	2 5	11 50	0 44	2 36	1 21	16 4	1 31	23 36	0 6	22 47	0 0	20 36	0 9	19 30	1 33	19 40	14 33	21 57	21 49	14 39	15 55	6 54	
W14	12 31	24 3	0 55	11 20	0 27	2 30	1 12	15 51	1 32	23 36	0 6	22 47	0 0	20 36	0 9	19 30	1 33	19 39	14 33	21 58	21 50	14 36	15 54	6 54	
T 15	12 51	21 6	0n19	10 51	0 9	2 23	1 3	15 38	1 33	23 36	0 6	22 46	0 0	20 35	0 9	19 30	1 33	19 39	14 33	21 58	21 50	14 34	15 53	6 55	
F 16	13 10	16 52	1 32	10 22	0s 8	2 16	0 54	15 25	1 34	23 36	0 6	22 46	0 0	20 35	0 9	19 31	1 33	19 39	14 34	21 58	21 51	14 31	15 53	6 55	
S 17	13 30	11 41	2 40	9 54	0 25	2 8	0 45	15 12	1 35	23 35	0 6	22 45	0 1	20 34	0 9	19 31	1 33	19 39	14 34	21 58	21 51	14 28	15 52	6 56	
S 18	13 49	5 52	3 38	9 28	0 41	1 59	0 36	14 58	1 36	23 35	0 6	22 45	0 1	20 34	0 9	19 32	1 33	19 39	14 34	21 58	21 52	14 26	15 52	6 57	
M19	14 8	0n16	4 23	9 3	0 57	1 50	0 28	14 45	1 38	23 35	0 7	22 45	0 1	20 34	0 9	19 32	1 33	19 39	14 35	21 59	21 52	14 23	15 51	6 57	
T 20	14 27	6 20	4 52	8 40	1 13	1 40	0 20	14 31	1 39	23 35	0 7	22 44	0 1	20 33	0 9	19 32	1 33	19 38	14 35	22 0	21 53	14 20	15 51	6 58	
W21	14 45	12 3	5 2	8 20	1 28	1 30	0 12	14 17	1 40	23 35	0 7	22 44	0 1	20 33	0 9	19 33	1 33	19 38	14 35	22 2	21 53	14 17	15 50	6 58	
T 22	15 4	17 4	4 54	8 2	1 42	1 19	0 4	14 4	1 41	23 35	0 7	22 43	0 1	20 32	0 9	19 33	1 33	19 38	14 36	22 3	21 54	14 15	15 50	6 59	
F 23	15 22	21 6	4 30	7 46	1 56	1 7	0s 4	13 50	1 42	23 35	0 7	22 43	0 1	20 32	0 9	19 34	1 33	19 38	14 36	22 5	21 54	14 12	15 49	6 59	
S 24	15 39	23 55	3 51	7 33	2 8	0 55	0 11	13 36	1 43	23 35	0 7	22 43	0 1	20 31	0 9	19 34	1 33	19 38	14 36	22 6	21 55	14 9	15 49	7 0	
S 25	15 57	25 22	3 0	7 22	2 20	0 43	0 18	13 22	1 44	23 35	0 7	22 42	0 1	20 31	0 9	19 34	1 33	19 38	14 36	22 7	21 55	14 7	15 48	7 1	
M26	16 14	25 27	2 2	7 14	2 30	0 30	0 25	13 7	1 45	23 34	0 7	22 42	0 1	20 31	0 9	19 35	1 33	19 38	14 37	22 8	21 56	14 4	15 48	7 1	
T 27	16 31	24 15	1 0	7 8	2 40	0 16	0 32	12 53	1 47	23 34	0 7	22 41	0 1	20 30	0 9	19 35	1 33	19 38	14 37	22 8	21 56	14 1	15 47	7 2	
W28	16 48	21 56	0s 5	7 5	2 49	0 2	0 38	12 39	1 48	23 34	0 7	22 41	0 2	20 30	0 9	19 36	1 33	19 38	14 37	22 8	21 57	13 58	15 47	7 2	
T 29	17 5	18 41	1 8	7 4	2 56	0n12	0 44	12 24	1 49	23 34	0 7	22 40	0 2	20 29	0 9	19 36	1 33	19 38	14 38	22 8	21 57	13 56	15 46	7 3	
F 30	17n21	14n42	2s 8	7n 6	3s 3	0n27	0s50	12s10	1s50	23n33	0n 8	22n40	0n 2	20s29	0n 9	19n36	1s33	19s38	14s38	22s 8	21s58	13n53	15s46	7n 3	

ASTRODIENST EPHEMERIS for the year 1563

geocentric

MAY 1563 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	15 11 49	19♌21'29	25♌33	26♌8	3♌56	3♌39	4♌20	15♌15	2°R 1	4♌44	14♌21	19°R 3	20♌14	16♌16	13°R42	S 1
S 2	15 15 45	20°19'16	7♌27	26°39	4°49	4°22	4°31	15°21	1♌58	4°46	14°21	19♌2	20°11	16°23	13♌40	S 2
M 3	15 19 42	21°17'00	19°31	27°14	5°42	5° 4	4°43	15°26	1°56	4°48	14°22	18°58	20° 8	16°30	13°38	M 3
T 4	15 23 38	22°14'43	1♌49	27°53	6°35	5°47	4°54	15°32	1°54	4°50	14°23	18°52	20° 5	16°36	13°37	T 4
W 5	15 27 35	23°12'25	14°25	28°36	7°30	6°30	5° 6	15°38	1°51	4°52	14°24	18°44	20° 1	16°43	13°35	W 5
T 6	15 31 31	24°10'04	27°20	29°23	8°24	7°13	5°17	15°43	1°49	4°54	14°24	18°36	19°58	16°49	13°33	T 6
F 7	15 35 28	25° 7'43	10♌34	0♌13	9°20	7°56	5°29	15°49	1°46	4°57	14°25	18°26	19°55	16°56	13°31	F 7
S 8	15 39 24	26° 5'20	24° 7	1° 6	10°15	8°38	5°41	15°55	1°44	4°59	14°26	18°18	19°52	17° 3	13°29	S 8
S 9	15 43 21	27° 2'56	7♌56	2° 3	11°12	9°21	5°53	16° 1	1°41	5° 1	14°26	18°11	19°49	17° 9	13°27	S 9
M10	15 47 18	28° 0'31	21°58	3° 3	12° 8	10° 4	6° 5	16° 7	1°39	5° 3	14°27	18° 6	19°45	17°16	13°25	M10
T 11	15 51 14	28°58'05	6♌8	4° 7	13° 5	10°46	6°17	16°13	1°36	5° 6	14°27	18° 4	19°42	17°23	13°23	T 11
W12	15 55 11	29°55'38	20°22	5°13	14° 3	11°29	6°29	16°19	1°34	5° 8	14°28	18°D 3	19°39	17°29	13°21	W12
T 13	15 59 7	0♌53'09	4♌37	6°23	15° 1	12°11	6°41	16°25	1°31	5°10	14°29	18° 4	19°36	17°36	13°18	T 13
F 14	16 3 4	1°50'40	18°51	7°35	15°59	12°54	6°53	16°32	1°29	5°12	14°29	18° 5	19°33	17°43	13°16	F 14
S 15	16 7 0	2°48'11	3♌2	8°50	16°58	13°36	7° 5	16°38	1°26	5°15	14°30	18°R 6	19°30	17°49	13°13	S 15
S 16	16 10 57	3°45'40	17° 7	10° 8	17°57	14°18	7°17	16°44	1°24	5°17	14°30	18° 5	19°26	17°56	13°11	S 16
M17	16 14 54	4°43'08	1♌7	11°29	18°56	15° 1	7°30	16°51	1°21	5°19	14°31	18° 2	19°23	18° 3	13° 8	M17
T 18	16 18 50	5°40'36	14°58	12°52	19°56	15°43	7°42	16°57	1°19	5°21	14°31	17°58	19°20	18° 9	13° 6	T 18
W19	16 22 47	6°38'04	28°39	14°19	20°56	16°25	7°54	17° 4	1°16	5°24	14°31	17°52	19°17	18°16	13° 3	W19
T 20	16 26 43	7°35'30	12♌8	15°48	21°57	17° 7	8° 7	17°10	1°14	5°26	14°32	17°45	19°14	18°23	13° 0	T 20
F 21	16 30 40	8°32'56	25°24	17°19	22°57	17°49	8°19	17°17	1°12	5°28	14°32	17°39	19°10	18°29	12°58	F 21
S 22	16 34 36	9°30'21	8♌24	18°54	23°59	18°31	8°32	17°24	1° 9	5°30	14°33	17°33	19° 7	18°36	12°55	S 22
S 23	16 38 33	10°27'45	21° 9	20°31	25° 0	19°13	8°45	17°30	1° 7	5°33	14°33	17°29	19° 4	18°43	12°52	S 23
M24	16 42 29	11°25'08	3♌38	22°10	26° 1	19°55	8°57	17°37	1° 4	5°35	14°33	17°26	19° 1	18°49	12°49	M24
T 25	16 46 26	12°22'30	15°53	23°53	27° 3	20°36	9°10	17°44	1° 2	5°37	14°33	17°D25	18°58	18°56	12°46	T 25
W26	16 50 23	13°19'52	27°55	25°37	28° 5	21°18	9°23	17°51	0°59	5°39	14°34	17°26	18°55	19° 3	12°43	W26
T 27	16 54 19	14°17'12	9♌50	27°25	29° 8	22° 0	9°35	17°58	0°57	5°41	14°34	17°27	18°51	19° 9	12°40	T 27
F 28	16 58 16	15°14'31	21°40	29°15	0♌10	22°41	9°48	18° 5	0°55	5°44	14°34	17°29	18°48	19°16	12°37	F 28
S 29	17 2 12	16°11'50	3♌30	1♌7	1°13	23°22	10° 1	18°12	0°52	5°46	14°34	17°30	18°45	19°23	12°33	S 29
S 30	17 6 9	17° 9'07	15°24	3° 2	2°16	24° 4	10°14	18°19	0°50	5°48	14°34	17°R31	18°42	19°29	12°30	S 30
M31	17 10 5	18♌6'24	27♌29	4♌59	3♌20	24♌45	10♌27	18♌26	0♌47	5♌50	14♌35	17♌31	18♌39	19♌36	12♌27	M31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	17n37	10n10	3s 3	7n10	3s 9	0n42	0s56	11s55	1s51	23n33	0n 8	22n39	0n 2	20s28	0n 9	19n37	1s33	19s38	14s38	22s 8	21s58	13n50	15s46	7n 4	
S 2	17 52	5 15	3 49	7 17	3 14	0 58	1 2	11 40	1 52	23 33	0 8	22 39	0 2	20 28	0 9	19 37	1 33	19 38	14 39	22 9	21 59	13 48	15 45	7 5	
M 3	18 7	0 4	4 27	7 26	3 18	1 14	1 7	11 26	1 53	23 33	0 8	22 38	0 2	20 27	0 9	19 38	1 33	19 38	14 39	22 9	21 59	13 45	15 45	7 5	
T 4	18 22	5s12	4 52	7 37	3 22	1 31	1 13	11 11	1 54	23 32	0 8	22 38	0 2	20 27	0 9	19 38	1 33	19 38	14 39	22 10	22 0	13 42	15 44	7 6	
W 5	18 37	10 22	5 5	7 49	3 24	1 47	1 18	10 56	1 55	23 32	0 8	22 37	0 2	20 26	0 9	19 39	1 33	19 38	14 40	22 11	22 0	13 39	15 44	7 6	
T 6	18 52	15 14	5 2	8 4	3 26	2 4	1 23	10 41	1 56	23 32	0 8	22 36	0 2	20 26	0 9	19 39	1 33	19 38	14 40	22 12	22 0	13 37	15 44	7 7	
F 7	19 6	19 31	4 44	8 21	3 26	2 22	1 27	10 26	1 58	23 31	0 8	22 36	0 2	20 25	0 9	19 39	1 33	19 38	14 40	22 13	22 1	13 34	15 43	7 7	
S 8	19 19	22 52	4 9	8 40	3 26	2 40	1 32	10 11	1 59	23 31	0 8	22 35	0 2	20 25	0 9	19 40	1 33	19 38	14 41	22 15	22 1	13 31	15 43	7 8	
S 9	19 33	24 57	3 19	9 0	3 26	2 58	1 36	9 56	2 0	23 30	0 8	22 35	0 3	20 24	0 9	19 40	1 33	19 38	14 41	22 16	22 2	13 28	15 43	7 8	
M10	19 46	25 31	2 16	9 22	3 24	3 16	1 41	9 41	2 1	23 30	0 8	22 34	0 3	20 24	0 9	19 41	1 32	19 38	14 41	22 16	22 2	13 26	15 43	7 9	
T 11	19 59	24 25	1 4	9 45	3 22	3 34	1 45	9 25	2 2	23 29	0 8	22 33	0 3	20 23	0 9	19 41	1 32	19 38	14 42	22 17	22 3	13 23	15 42	7 9	
W12	20 11	21 45	0n12	10 10	3 19	3 53	1 49	9 10	2 3	23 29	0 9	22 33	0 3	20 23	0 9	19 41	1 32	19 38	14 42	22 17	22 3	13 20	15 42	7 10	
T 13	20 23	17 43	1 28	10 36	3 15	4 12	1 52	8 55	2 4	23 28	0 9	22 32	0 3	20 22	0 9	19 42	1 32	19 38	14 43	22 16	22 4	13 17	15 42	7 10	
F 14	20 35	12 42	2 39	11 4	3 11	4 31	1 56	8 40	2 5	23 28	0 9	22 31	0 3	20 22	0 9	19 42	1 32	19 38	14 43	22 16	22 4	13 15	15 42	7 11	
S 15	20 46	7 1	3 39	11 32	3 6	4 51	1 59	8 24	2 6	23 27	0 9	22 31	0 3	20 21	0 9	19 43	1 32	19 38	14 43	22 16	22 5	13 12	15 41	7 11	
S 16	20 57	1 1	4 26	12 2	3 1	5 10	2 2	8 9	2 7	23 27	0 9	22 30	0 3	20 21	0 9	19 43	1 32	19 39	14 44	22 16	22 5	13 9	15 41	7 11	
M17	21 8	4n58	4 56	12 32	2 55	5 30	2 5	7 53	2 8	23 26	0 9	22 29	0 3	20 20	0 9	19 43	1 32	19 39	14 44	22 17	22 6	13 6	15 41	7 12	
T 18	21 18	10 39	5 9	13 4	2 48	5 50	2 8	7 38	2 9	23 25	0 9	22 28	0 3	20 20	0 9	19 44	1 32	19 39	14 44	22 17	22 6	13 3	15 41	7 12	
W19	21 28	15 45	5 4	13 36	2 41	6 10	2 11	7 22	2 10	23 25	0 9	22 28	0 3	20 19	0 9	19 44	1 32	19 39	14 45	22 18	22 6	13 1	15 41	7 13	
T 20	21 38	19 59	4 42	14 10	2 33	6 30	2 13	7 7	2 11	23 24	0 9	22 27	0 3	20 19	0 9	19 45	1 32	19 39	14 45	22 19	22 7	12 58	15 40	7 13	
F 21	21 47	23 7	4 5	14 43	2 25	6 51	2 16	6 51	2 13	23 23	0 9	22 26	0 4	20 18	0 9	19 45	1 32	19 39	14 45	22 20	22 7	12 55	15 40	7 14	
S 22	21 56	24 59	3 16	15 17	2 17	7 11	2 18	6 36	2 14	23 23	0 9	22 25	0 4	20 18	0 9	19 45	1 32	19 40	14 46	22 21	22 8	12 52	15 40	7 14	
S 23	22 4	25 30	2 18	15 52	2 8	7 31	2 20	6 20	2 15	23 22	0 10	22 25	0 4	20 17	0 9	19 46	1 32	19 40	14 46	22 21	22 8	12 50	15 40	7 14	
M24	22 12	24 41	1 15	16 27	1 58	7 52	2 22	6 5	2 16	23 21	0 10	22 24	0 4	20 17	0 9	19 46	1 32	19 40	14 47	22 21	22 9	12 47	15 40	7 15	
T 25	22 20	22 41	0 8	17 2	1 48	8 13	2 24	5 49	2 17	23 20	0 10	22 23	0 4	20 16	0 9	19 47	1 32	19 40	14 47	22 22	22 9	12 44	15 40	7 15	
W26	22 27	19 42	0s57	17 37	1 38	8 33	2 26	5 34	2 18	23 20	0 10	22 22	0 4	20 16	0 9	19 47	1 32	19 41	14 47	22 21	22 10	12 41	15 40	7 15	
T 27	22 34	15 55	2 0	18 12	1 28	8 54	2 27	5 18	2 19	23 19	0 10	22 21	0 4	20 16	0 9	19 47	1 32	19 41	14 48	22 21	22 10	12 38	15 40	7 16	
F 28	22 41	11 32	2 56	18 47	1 17	9 14	2 29	5 3	2 20	23 18	0 10	22 20	0 4	20 15	0 9	19 48	1 32	19 41	14 48	22 21	22 10	12 36	15 40	7 16	
S 29	22 47	6 44	3 46	19 21	1 6	9 35	2 30	4 47	2 21	23 17	0 10	22 20	0 4	20 15	0 9	19 48	1 32	19 41	14 48	22 21	22 11	12 33	15 39	7 17	
S 30	22 52	1 41	4 26	19 55	0 55	9 56	2 31	4 32	2 22	23 16	0 10	22 19	0 4	20 14	0 9	19 49	1 32	19 42	14 49	22 21	22 11	12 30	15 39	7 17	
M31	22n58	3s30	4s55	20n28	0s44	10n16	2s32	4s16	2s23	23n15	0n10	22n18	0n 4	20s14	0n 8	19n49	1s32	19s42	14s49	22s21	22s12	12n27	15s39	7n17	

ASTRODIENST EPHEMERIS for the year 1563

geocentric

JUNE 1563 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	17 14 2	19II 3'40	9♂47	6II59	4♂23	25♂26	10♂40	18♂33	0♂R45	5II53	14♂35	17♂R29	18♂36	19♂43	12♂R24	T 1
W 2	17 17 58	20° 0'55	22°25	9° 0	5°27	26° 7	10°53	18°40	0♂43	5°55	14°35	17♂26	18°32	19°49	12♂20	W 2
T 3	17 21 55	20°58'09	5III24	11° 4	6°31	26°48	11° 6	18°47	0°41	5°57	14°35	17°23	18°29	19°56	12°17	T 3
F 4	17 25 52	21°55'23	18°46	13° 9	7°35	27°29	11°19	18°54	0°38	5°59	14°35	17°19	18°26	20° 3	12°13	F 4
S 5	17 29 48	22°52'36	2♂31	15°16	8°40	28° 9	11°32	19° 2	0°36	6° 1	14°R35	17°15	18°23	20° 9	12°10	S 5
S 6	17 33 45	23°49'49	16°38	17°25	9°44	28°50	11°45	19° 9	0°34	6° 3	14°35	17°13	18°20	20°16	12° 7	S 6
M 7	17 37 41	24°47'01	1♂ 1	19°34	10°49	29°31	11°58	19°16	0°32	6° 6	14°35	17°11	18°16	20°23	12° 3	M 7
T 8	17 41 38	25°44'13	15°36	21°44	11°54	0°V11	12°11	19°24	0°29	6° 8	14°35	17°D10	18°13	20°29	12° 0	T 8
W 9	17 45 34	26°41'25	0♂16	23°55	12°59	0°51	12°25	19°31	0°27	6°10	14°35	17°11	18°10	20°36	11°56	W 9
T 10	17 49 31	27°38'36	14°55	26° 6	14° 4	1°31	12°38	19°38	0°25	6°12	14°35	17°12	18° 7	20°43	11°52	T 10
F 11	17 53 27	28°35'47	29°27	28°18	15°10	2°11	12°51	19°46	0°23	6°14	14°35	17°13	18° 4	20°49	11°49	F 11
S 12	17 57 24	29°32'59	13♂49	0♂29	16°16	2°51	13° 4	19°53	0°21	6°16	14°34	17°14	18° 1	20°56	11°45	S 12
S 13	18 1 21	0♂30'10	27°58	2°39	17°21	3°31	13°18	20° 1	0°19	6°18	14°34	17°R14	17°57	21° 3	11°42	S 13
M14	18 5 17	1°27'22	11°V52	4°49	18°27	4°11	13°31	20° 8	0°17	6°20	14°34	17°14	17°54	21° 9	11°38	M14
T 15	18 9 14	2°24'34	25°30	6°58	19°34	4°51	13°44	20°16	0°15	6°22	14°34	17°13	17°51	21°16	11°34	T 15
W16	18 13 10	3°21'46	8♂52	9° 5	20°40	5°30	13°57	20°23	0°13	6°24	14°34	17°12	17°48	21°23	11°30	W16
T 17	18 17 7	4°18'58	22° 0	11°12	21°46	6° 9	14°11	20°31	0°11	6°27	14°33	17°10	17°45	21°29	11°27	T 17
F 18	18 21 3	5°16'10	4II52	13°16	22°53	6°48	14°24	20°39	0° 9	6°29	14°33	17° 8	17°42	21°36	11°23	F 18
S 19	18 25 0	6°13'23	17°31	15°20	24° 0	7°27	14°37	20°46	0° 7	6°31	14°33	17° 7	17°38	21°43	11°19	S 19
S 20	18 28 56	7°10'35	29°58	17°21	25° 7	8° 6	14°51	20°54	0° 6	6°33	14°32	17° 6	17°35	21°49	11°16	S 20
M21	18 32 53	8° 7'48	12♂12	19°21	26°14	8°45	15° 4	21° 1	0° 4	6°35	14°32	17°D 6	17°32	21°56	11°12	M21
T 22	18 36 50	9° 5'01	24°17	21°19	27°21	9°23	15°18	21° 9	0° 2	6°37	14°32	17° 6	17°29	22° 3	11° 8	T 22
W23	18 40 46	10° 2'14	6♂14	23°15	28°28	10° 2	15°31	21°17	0° 0	6°38	14°31	17° 6	17°26	22° 9	11° 4	W23
T 24	18 44 43	10°59'27	18° 6	25° 9	29°35	10°40	15°44	21°25	29♂59	6°40	14°31	17° 7	17°23	22°16	11° 1	T 24
F 25	18 48 39	11°56'40	29°54	27° 2	0II43	11°18	15°58	21°32	29°57	6°42	14°30	17° 7	17°19	22°23	10°57	F 25
S 26	18 52 36	12°53'52	11♂44	28°52	1°51	11°56	16°11	21°40	29°55	6°44	14°30	17° 8	17°16	22°29	10°53	S 26
S 27	18 56 32	13°51'05	23°39	0♂41	2°58	12°34	16°25	21°48	29°54	6°46	14°30	17° 8	17°13	22°36	10°49	S 27
M28	19 0 29	14°48'18	5♂42	2°27	4° 6	13°11	16°38	21°55	29°52	6°48	14°29	17° 8	17°10	22°43	10°46	M28
T 29	19 4 25	15°45'31	17°59	4°12	5°14	13°48	16°52	22° 3	29°51	6°50	14°29	17°R 8	17° 7	22°50	10°42	T 29
W30	19 8 22	16♂42'44	0III34	5♂55	6II22	14°V25	17♂ 5	22♂11	29♂49	6II52	14♂28	17°D 8	17♂ 3	22♂56	10♂38	W30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	23n 3	8s39	5s11	20n59	0s33	10n37	2s33	4s 1	2s24	23n14	0n10	22n17	0n 5	20s13	0n 8	19n17
W 2	23 7	13 34	5 13	21 30	0 22	10 57	2 34	3 45	2 25	23 13	0 10	22 16	0 5	20 13	0 8	19 50
T 3	23 11	18 2	4 58	21 59	0 10	11 18	2 34	3 30	2 26	23 12	0 10	22 15	0 5	20 12	0 8	19 50
F 4	23 15	21 44	4 28	22 27	0n 1	11 38	2 35	3 15	2 27	23 11	0 11	22 14	0 5	20 12	0 8	19 50
S 5	23 18	24 20	3 41	22 52	0 11	11 59	2 35	2 59	2 27	23 10	0 11	22 13	0 5	20 11	0 8	19 51
S 6	23 21	25 29	2 40	23 16	0 22	12 19	2 35	2 44	2 28	23 9	0 11	22 12	0 5	20 11	0 8	19 51
M 7	23 24	24 57	1 28	23 37	0 32	12 39	2 35	2 29	2 29	23 8	0 11	22 11	0 5	20 10	0 8	19 51
T 8	23 26	22 44	0 9	23 56	0 42	12 59	2 35	2 13	2 30	23 7	0 11	22 10	0 5	20 10	0 8	19 52
W 9	23 27	18 59	1n12	24 13	0 51	13 18	2 35	1 58	2 31	23 6	0 11	22 10	0 5	20 9	0 8	19 52
T 10	23 29	14 3	2 27	24 27	1 0	13 38	2 35	1 43	2 32	23 5	0 11	22 9	0 5	20 9	0 8	19 53
F 11	23 29	8 22	3 33	24 38	1 8	13 58	2 35	1 28	2 33	23 4	0 11	22 8	0 5	20 9	0 8	19 53
S 12	23 30	2 19	4 24	24 46	1 16	14 17	2 34	1 13	2 34	23 2	0 11	22 7	0 5	20 8	0 8	19 53
S 13	23 30	3n45	4 58	24 51	1 23	14 36	2 34	0 58	2 35	23 1	0 11	22 6	0 6	20 8	0 8	19 54
M14	23 29	9 31	5 15	24 54	1 29	14 55	2 33	0 43	2 36	23 0	0 11	22 5	0 6	20 7	0 8	19 54
T 15	23 28	14 44	5 13	24 53	1 35	15 13	2 32	0 28	2 36	22 59	0 12	22 3	0 6	20 7	0 8	19 54
W16	23 27	19 7	4 54	24 50	1 39	15 32	2 31	0 13	2 37	22 57	0 12	22 2	0 6	20 7	0 8	19 55
T 17	23 26	22 29	4 20	24 44	1 43	15 50	2 30	0n 2	2 38	22 56	0 12	22 1	0 6	20 6	0 8	19 55
F 18	23 23	24 39	3 33	24 36	1 47	16 8	2 29	0 16	2 39	22 55	0 12	22 0	0 6	20 6	0 8	19 55
S 19	23 21	25 31	2 37	24 25	1 49	16 25	2 28	0 31	2 40	22 53	0 12	21 59	0 6	20 5	0 8	19 56
S 20	23 18	25 3	1 34	24 12	1 51	16 43	2 27	0 46	2 41	22 52	0 12	21 58	0 6	20 5	0 8	19 56
M21	23 15	23 23	0 27	23 57	1 52	17 0	2 25	1 0	2 41	22 51	0 12	21 57	0 6	20 5	0 8	19 56
T 22	23 11	20 39	0s40	23 39	1 53	17 17	2 24	1 15	2 42	22 49	0 12	21 56	0 6	20 4	0 8	19 57
W23	23 7	17 5	1 44	23 20	1 52	17 33	2 23	1 29	2 43	22 48	0 12	21 55	0 6	20 4	0 8	19 57
T 24	23 2	12 51	2 44	22 59	1 51	17 49	2 21	1 43	2 44	22 46	0 12	21 54	0 6	20 4	0 8	19 57
F 25	22 57	8 10	3 36	22 36	1 50	18 5	2 19	1 57	2 45	22 45	0 12	21 53	0 7	20 3	0 8	19 57
S 26	22 52	3 11	4 19	22 11	1 48	18 20	2 17	2 11	2 45	22 43	0 13	21 51	0 7	20 3	0 8	19 58
S 27	22 46	1s56	4 51	21 45	1 45	18 35	2 16	2 25	2 46	22 42	0 13	21 50	0 7	20 3	0 8	19 58
M28	22 40	7 2	5 11	21 18	1 41	18 50	2 14	2 39	2 47	22 40	0 13	21 49	0 7	20 2	0 8	19 58
T 29	22 34	11 57	5 17	20 50	1 37	19 4	2 12	2 53	2 48	22 39	0 13	21 48	0 7	20 2	0 8	19 59
W30	22n27	16s31	5s 9	20n20	1n33	19n18	2s10	3n 7	2s48	22n37	0n13	21n47	0n 7	20s 2	0n 8	19n59

Julian Day Number = 2292094.5, Delta T = 151.62 sec

Ecliptic obliquity = 23°29'48", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 18°38'53", Lahiri = 17°45'53" Julian Calendar 1 June 1563 == Greg. Calendar 11 June 1563

ASTRODIENST EPHEMERIS for the year 1563

geocentric

JULY 1563 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	19 12 19	17°39'57	13°31	7°36	7°31	15°2	17°18	22°19	29°48	6°53	14°27	17°8	17°0	23°3	10°34	T 1
F 2	19 16 15	18°37'11	26°52	9°15	8°39	15°39	17°32	22°26	29°47	6°55	14°27	17°8	16°57	23°10	10°31	F 2
S 3	19 20 12	19°34'24	10°39	10°52	9°47	16°16	17°45	22°34	29°45	6°57	14°26	17°9	16°54	23°16	10°27	S 3
S 4	19 24 8	20°31'38	24°51	12°27	10°56	16°52	17°59	22°42	29°44	6°59	14°26	17°9	16°51	23°23	10°23	S 4
M 5	19 28 5	21°28'53	9°36	14°0	12°5	17°28	18°12	22°50	29°43	7°0	14°25	17°9	16°48	23°30	10°20	M 5
T 6	19 32 1	22°26'08	24°18	15°31	13°13	18°4	18°26	22°58	29°42	7°2	14°24	17°9	16°44	23°36	10°16	T 6
W 7	19 35 58	23°23'23	9°19	17°0	14°22	18°40	18°39	23°5	29°40	7°4	14°24	17°9	16°41	23°43	10°12	W 7
T 8	19 39 55	24°20'39	24°21	18°27	15°31	19°15	18°52	23°13	29°39	7°6	14°23	17°8	16°38	23°50	10°9	T 8
F 9	19 43 51	25°17'56	9°16	19°53	16°40	19°50	19°6	23°21	29°38	7°7	14°22	17°7	16°35	23°56	10°5	F 9
S 10	19 47 48	26°15'13	23°56	21°16	17°50	20°26	19°19	23°29	29°37	7°9	14°22	17°6	16°32	24°3	10°2	S 10
S 11	19 51 44	27°12'32	8°16	22°37	18°59	21°0	19°32	23°36	29°36	7°10	14°21	17°6	16°28	24°10	9°58	S 11
M 12	19 55 41	28°9'51	22°14	23°56	20°8	21°35	19°46	23°44	29°35	7°12	14°20	17°5	16°25	24°16	9°55	M 12
T 13	19 59 37	29°7'12	5°49	25°13	21°18	22°9	19°59	23°52	29°34	7°13	14°19	17°5	16°22	24°23	9°51	T 13
W 14	20 3 34	0°43'4	19°2	26°28	22°27	22°43	20°12	24°0	29°34	7°15	14°18	17°6	16°19	24°30	9°48	W 14
T 15	20 7 30	1°15'7	1°55	27°41	23°37	23°17	20°26	24°8	29°33	7°17	14°18	17°7	16°16	24°36	9°45	T 15
F 16	20 11 27	1°59'21	14°31	28°51	24°47	23°50	20°39	24°15	29°32	7°18	14°17	17°8	16°13	24°43	9°41	F 16
S 17	20 15 24	2°56'46	26°54	29°59	25°57	24°24	20°52	24°23	29°31	7°19	14°16	17°9	16°9	24°50	9°38	S 17
S 18	20 19 20	3°54'12	9°5	1°5	27°7	24°56	21°6	24°31	29°31	7°21	14°15	17°10	16°6	24°56	9°35	S 18
M 19	20 23 17	4°51'40	21°7	2°7	28°17	25°29	21°19	24°38	29°30	7°22	14°14	17°10	16°3	25°3	9°32	M 19
T 20	20 27 13	5°49'08	3°8	3°8	29°27	26°1	21°32	24°46	29°30	7°24	14°13	17°9	16°0	25°10	9°28	T 20
W 21	20 31 10	6°46'37	14°54	4°5	0°37	26°33	21°45	24°54	29°29	7°25	14°12	17°8	15°57	25°16	9°25	W 21
T 22	20 35 6	7°44'07	26°43	4°59	1°47	27°5	21°58	25°1	29°29	7°26	14°11	17°5	15°54	25°23	9°22	T 22
F 23	20 39 3	8°41'38	8°33	5°51	2°58	27°36	22°11	25°9	29°28	7°28	14°10	17°2	15°50	25°30	9°19	F 23
S 24	20 42 59	9°39'10	20°24	6°39	4°8	28°7	22°25	25°17	29°28	7°29	14°9	16°58	15°47	25°36	9°16	S 24
S 25	20 46 56	10°36'43	2°20	7°24	5°19	28°38	22°38	25°24	29°28	7°30	14°8	16°54	15°44	25°43	9°13	S 25
M 26	20 50 53	11°34'17	14°25	8°5	6°29	29°8	22°51	25°32	29°28	7°31	14°7	16°51	15°41	25°50	9°10	M 26
T 27	20 54 49	12°31'52	26°41	8°42	7°40	29°38	23°4	25°40	29°27	7°32	14°6	16°49	15°38	25°56	9°7	T 27
W 28	20 58 46	13°29'28	9°13	9°16	8°51	0°8	23°17	25°47	29°27	7°34	14°5	16°48	15°34	26°3	9°5	W 28
T 29	21 2 42	14°27'05	22°4	9°45	10°2	0°37	23°30	25°55	29°27	7°35	14°4	16°48	15°31	26°10	9°2	T 29
F 30	21 6 39	15°24'42	5°19	10°10	11°13	1°6	23°42	26°2	29°27	7°36	14°3	16°49	15°28	26°16	8°59	F 30
S 31	21 10 35	16°22'21	18°59	10°30	12°24	1°35	23°55	26°10	29°27	7°37	14°2	16°51	15°25	26°23	8°57	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	22n20	20s27	4s45	19n50	1n28	19n31	2s8	3n20	2s49	22n35	0n13	21n46	0n7	20s1	0n8	19n59
F 2	22 12	23 28	4 5	19 19	1 23	19 44	2 5	3 34	2 50	22 34	0 13	21 44	0 7	20 1	0 8	19 59
S 3	22 4	25 13	3 9	18 47	1 17	19 56	2 3	3 47	2 50	22 32	0 13	21 43	0 7	20 1	0 8	20 0
S 4	21 55	25 24	2 1	18 14	1 10	20 9	2 1	4 1	2 51	22 30	0 13	21 42	0 7	20 1	0 8	20 0
M 5	21 47	23 52	0 43	17 41	1 3	20 20	1 58	4 14	2 52	22 29	0 13	21 41	0 7	20 0	0 8	20 0
T 6	21 37	20 40	0n40	17 7	0 56	20 31	1 56	4 27	2 52	22 27	0 13	21 40	0 8	20 0	0 8	20 0
W 7	21 28	16 2	2 0	16 33	0 48	20 42	1 54	4 40	2 53	22 25	0 14	21 38	0 8	20 0	0 8	20 1
T 8	21 18	10 25	3 12	15 58	0 40	20 52	1 51	4 53	2 53	22 23	0 14	21 37	0 8	20 0	0 8	20 1
F 9	21 8	4 15	4 11	15 24	0 32	21 2	1 48	5 5	2 54	22 22	0 14	21 36	0 8	20 0	0 8	20 1
S 10	20 57	2n3	4 52	14 49	0 23	21 11	1 46	5 18	2 55	22 20	0 14	21 35	0 8	19 59	0 8	20 1
S 11	20 46	8 5	5 13	14 14	0 14	21 20	1 43	5 31	2 55	22 18	0 14	21 34	0 8	19 59	0 8	20 2
M 12	20 35	13 33	5 16	13 39	0 5	21 28	1 40	5 43	2 56	22 16	0 14	21 32	0 8	19 59	0 8	20 2
T 13	20 23	18 12	5 0	13 4	0s5	21 35	1 38	5 55	2 56	22 14	0 14	21 31	0 8	19 59	0 8	20 2
W 14	20 11	21 50	4 29	12 30	0 15	21 42	1 35	6 7	2 57	22 12	0 14	21 30	0 8	19 59	0 8	20 2
T 15	19 59	24 16	3 45	11 55	0 25	21 49	1 32	6 19	2 57	22 11	0 14	21 28	0 8	19 58	0 8	20 2
F 16	19 46	25 26	2 51	11 21	0 35	21 55	1 29	6 31	2 58	22 9	0 14	21 27	0 8	19 58	0 8	20 3
S 17	19 35	25 17	1 50	10 47	0 46	22 0	1 26	6 43	2 58	22 7	0 15	21 26	0 8	19 58	0 8	20 3
S 18	19 19	23 56	0 45	10 14	0 57	22 5	1 23	6 54	2 59	22 5	0 15	21 25	0 9	19 58	0 8	20 3
M 19	19 6	21 28	0s22	9 42	1 8	22 9	1 20	7 6	2 59	22 3	0 15	21 23	0 9	19 58	0 8	20 3
T 20	18 52	18 7	1 27	9 10	1 19	22 13	1 17	7 17	3 0	22 1	0 15	21 22	0 9	19 58	0 8	20 3
W 21	18 37	14 3	2 27	8 38	1 30	22 16	1 14	7 28	3 0	21 59	0 15	21 21	0 9	19 58	0 8	20 4
T 22	18 23	9 29	3 21	8 8	1 41	22 18	1 11	7 39	3 0	21 57	0 15	21 19	0 9	19 58	0 8	20 4
F 23	18 8	4 35	4 6	7 38	1 53	22 20	1 8	7 50	3 1	21 55	0 15	21 18	0 9	19 58	0 8	20 4
S 24	17 53	0s30	4 41	7 10	2 4	22 21	1 5	8 1	3 1	21 53	0 15	21 17	0 9	19 58	0 8	20 4
S 25	17 37	5 35	5 4	6 43	2 16	22 22	1 2	8 11	3 2	21 51	0 15	21 16	0 9	19 58	0 8	20 4
M 26	17 21	10 31	5 14	6 17	2 28	22 22	0 59	8 21	3 2	21 49	0 15	21 14	0 9	19 58	0 8	20 4
T 27	17 5	15 7	5 9	5 52	2 39	22 21	0 55	8 32	3 2	21 47	0 16	21 13	0 9	19 58	0 8	20 5
W 28	16 49	19 11	4 50	5 29	2 50	22 20	0 52	8 42	3 3	21 45	0 16	21 12	0 9	19 57	0 8	20 5
T 29	16 32	22 28	4 17	5 8	3 2	22 18	0 49	8 52	3 3	21 42	0 16	21 10	0 10	19 57	0 8	20 5
F 30	16 15	24 39	3 28	4 48	3 13	22 16	0 46	9 1	3 3	21 40	0 16	21 9	0 10	19 57	0 8	20 5
S 31	15n58	25s29	2s27	4n30	3s23	22n12	0s43	9n11	3s3	21n38	0n16	21n8	0n10	19s58	0n8	20n5

Julian Day Number = 2292124.5, Delta T = 151.45 sec

Ecliptic obliquity = 23°29'48", Nutation = 0°00'17", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 18°38'57", Lahiri = 17°45'57" Julian Calendar 1 July 1563 == Greg. Calendar 11 July 1563

ASTRODIENST EPHEMERIS for the year 1563

geocentric

AUGUST 1563 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	21 14 32	17°20'01	3°36' 6	10°46' 46	13°35' 35	2°8' 3	24°28' 8	26°17' 17	29°27' 27	7°39' 39	14°R 1	16°35' 52	15°22' 22	26°23' 30	8°R54	S 1
M 2	21 18 28	18°17'42	17°39' 10	10°56' 46	14°46' 23	2°30' 30	24°21' 21	26°25' 25	29°27' 27	7°39' 39	14°R 0	16°R53	15°19' 19	26°36' 36	8°R52	M 2
T 3	21 22 25	19°15'24	2°34' 34	11°R 1	15°57' 57	2°58' 58	24°34' 34	26°32' 32	29°28' 28	7°40' 40	13°59' 59	16°52' 52	15°15' 15	26°43' 43	8°49' 49	T 3
W 4	21 26 22	20°13'08	17°44' 11	1°17' 9	17°9' 9	3°25' 25	24°46' 46	26°39' 39	29°28' 28	7°41' 41	13°58' 58	16°50' 50	15°12' 12	26°50' 50	8°47' 47	W 4
T 5	21 30 18	21°10'52	2°35' 59	10°55' 55	18°20' 20	3°51' 51	24°59' 59	26°47' 47	29°28' 28	7°42' 42	13°57' 57	16°46' 46	15°9' 9	26°57' 57	8°44' 44	T 5
F 6	21 34 15	22°8'38	18°10' 10	10°43' 43	19°32' 32	4°17' 17	25°12' 12	26°54' 54	29°29' 29	7°43' 43	13°56' 56	16°41' 41	15°6' 6	27°3' 3	8°42' 42	F 6
S 7	21 38 11	23°6'26	3°37' 7	10°26' 26	20°43' 43	4°43' 43	25°24' 24	27°1' 1	29°29' 29	7°44' 44	13°55' 55	16°36' 36	15°3' 3	27°10' 10	8°40' 40	S 7
S 8	21 42 8	24°4'15	17°42' 42	10°3' 3	21°55' 55	5°8' 8	25°37' 37	27°8' 8	29°29' 29	7°44' 44	13°53' 53	16°31' 31	15°0' 0	27°17' 17	8°38' 38	S 8
M 9	21 46 4	25°2'06	1°34' 49	9°33' 33	23°7' 7	5°33' 33	25°49' 49	27°16' 16	29°30' 30	7°45' 45	13°52' 52	16°28' 28	14°56' 56	27°23' 23	8°36' 36	M 9
T 10	21 50 1	25°59'59	15°29' 29	8°59' 59	24°18' 18	5°57' 57	26°2' 2	27°23' 23	29°30' 30	7°46' 46	13°51' 51	16°25' 25	14°53' 53	27°30' 30	8°34' 34	T 10
W 11	21 53 57	26°57'54	28°42' 42	8°19' 19	25°30' 30	6°20' 20	26°14' 14	27°30' 30	29°31' 31	7°47' 47	13°50' 50	16°D25	14°50' 50	27°37' 37	8°32' 32	W 11
T 12	21 57 54	27°55'51	11°11'30	7°34' 34	26°42' 42	6°44' 44	26°27' 27	27°37' 37	29°32' 32	7°47' 47	13°49' 49	16°26' 26	14°47' 47	27°43' 43	8°30' 30	T 12
F 13	22 1 51	28°53'50	23°59' 59	6°45' 45	27°54' 54	7°6' 6	26°39' 39	27°44' 44	29°32' 32	7°48' 48	13°48' 48	16°27' 27	14°44' 44	27°50' 50	8°28' 28	F 13
S 14	22 5 47	29°51'50	6°51' 11	5°53' 53	29°6' 6	7°28' 28	26°51' 51	27°51' 51	29°33' 33	7°49' 49	13°46' 46	16°28' 28	14°40' 40	27°57' 57	8°27' 27	S 14
S 15	22 9 44	0°49'52	18°13' 13	4°58' 58	0°18' 18	7°50' 50	27°3' 3	27°58' 58	29°34' 34	7°49' 49	13°45' 45	16°R29	14°37' 37	28°3' 3	8°25' 25	S 15
M 16	22 13 40	1°47'56	0°17' 7	4°2' 2	1°31' 31	8°11' 11	27°15' 15	28°5' 5	29°35' 35	7°50' 50	13°44' 44	16°28' 28	14°34' 34	28°10' 10	8°23' 23	M 16
T 17	22 17 37	2°46'02	11°57' 57	3°5' 5	2°43' 43	8°31' 31	27°28' 28	28°12' 12	29°36' 36	7°50' 50	13°43' 43	16°25' 25	14°31' 31	28°17' 17	8°22' 22	T 17
W 18	22 21 33	3°44'10	23°46' 46	2°8' 8	3°55' 55	8°51' 51	27°40' 40	28°19' 19	29°37' 37	7°51' 51	13°42' 42	16°19' 19	14°28' 28	28°23' 23	8°21' 21	W 18
T 19	22 25 30	4°42'19	5°17'35	1°14' 14	5°8' 8	9°11' 11	27°51' 51	28°26' 26	29°38' 38	7°51' 51	13°40' 40	16°12' 12	14°25' 25	28°30' 30	8°19' 19	T 19
F 20	22 29 26	5°40'30	17°28' 28	0°23' 23	6°20' 20	9°29' 29	28°3' 3	28°33' 33	29°39' 39	7°52' 52	13°39' 39	16°3' 3	14°21' 21	28°37' 37	8°18' 18	F 20
S 21	22 33 23	6°38'43	29°24' 24	29°13' 13	7°33' 33	9°47' 47	28°15' 15	28°39' 39	29°40' 40	7°52' 52	13°38' 38	15°53' 53	14°18' 18	28°43' 43	8°17' 17	S 21
S 22	22 37 20	7°36'57	11°12'27	28°56' 56	8°46' 46	10°5' 5	28°27' 27	28°46' 46	29°41' 41	7°52' 52	13°37' 37	15°44' 44	14°15' 15	28°50' 50	8°16' 16	S 22
M 23	22 41 16	8°35'13	23°37' 37	28°22' 22	9°58' 58	10°21' 21	28°39' 39	28°52' 52	29°42' 42	7°53' 53	13°36' 36	15°35' 35	14°12' 12	28°57' 57	8°15' 15	M 23
T 24	22 45 13	9°33'31	5°11'38	27°55' 55	11°11' 11	10°38' 38	28°50' 50	28°59' 59	29°43' 43	7°53' 53	13°34' 34	15°28' 28	14°9' 9	29°3' 3	8°14' 14	T 24
W 25	22 49 9	10°31'50	18°31' 31	27°36' 36	12°24' 24	10°53' 53	29°2' 2	29°6' 6	29°45' 45	7°53' 53	13°33' 33	15°24' 24	14°6' 6	29°10' 10	8°13' 13	W 25
T 26	22 53 6	11°30'11	1°17'20	27°26' 26	13°37' 37	11°8' 8	29°13' 13	29°12' 12	29°46' 46	7°54' 54	13°32' 32	15°21' 21	14°2' 2	29°17' 17	8°12' 12	T 26
F 27	22 57 2	12°28'33	14°29' 29	27°D25	14°50' 50	11°22' 22	29°25' 25	29°18' 18	29°47' 47	7°54' 54	13°31' 31	15°D21	13°59' 59	29°24' 24	8°11' 11	F 27
S 28	23 0 59	13°26'57	28°0' 0	27°33' 33	16°3' 3	11°35' 35	29°36' 36	29°25' 25	29°49' 49	7°54' 54	13°29' 29	15°21' 21	13°56' 56	29°30' 30	8°11' 11	S 28
S 29	23 4 55	14°25'23	11°13'55	27°50' 50	17°16' 16	11°48' 48	29°47' 47	29°31' 31	29°50' 50	7°54' 54	13°28' 28	15°R22	13°53' 53	29°37' 37	8°10' 10	S 29
M 30	23 8 52	15°23'50	26°16' 16	28°16' 16	18°29' 29	12°0' 0	29°58' 58	29°37' 37	29°52' 52	7°54' 54	13°27' 27	15°22' 22	13°50' 50	29°44' 44	8°10' 10	M 30
T 31	23 12 49	16°12'19	11°11'30	28°15' 15	19°14' 14	12°11' 11	0°10' 10	29°54' 54	29°54' 54	7°54' 54	13°26' 26	15°19' 19	13°46' 46	29°15' 15	8°9' 9	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	15n41	24s42	1s15	4n15	3s34	22n 9	0s40	9n21	3s 3	21n36	0n16	21n 6	0n10	19s58	0n 8	S 1
M 2	15 23	22 16	0n 4	4 2	3 44	22 4	0 36	9 30	3 4	21 34	0 16	21 5	0 10	19 58	0 8	M 2
T 3	15 5	18 16	1 25	3 51	3 53	21 59	0 33	9 39	3 4	21 32	0 16	21 4	0 10	19 58	0 8	T 3
W 4	14 47	13 0	2 41	3 43	4 2	21 54	0 30	9 48	3 4	21 30	0 16	21 2	0 10	19 58	0 8	W 4
T 5	14 28	6 56	3 45	3 38	4 10	21 48	0 27	9 57	3 4	21 27	0 17	21 1	0 10	19 58	0 8	T 5
F 6	14 10	0 29	4 34	3 36	4 17	21 41	0 24	10 5	3 4	21 25	0 17	21 0	0 10	19 58	0 7	F 6
S 7	13 51	5n52	5 3	3 37	4 23	21 33	0 21	10 14	3 4	21 23	0 17	20 59	0 10	19 58	0 7	S 7
S 8	13 32	11 45	5 11	3 41	4 28	21 25	0 17	10 22	3 4	21 21	0 17	20 57	0 11	19 58	0 7	S 8
M 9	13 12	16 49	5 0	3 48	4 32	21 17	0 14	10 30	3 4	21 19	0 17	20 56	0 11	19 58	0 7	M 9
T 10	12 53	20 51	4 32	3 59	4 34	21 7	0 11	10 38	3 4	21 16	0 17	20 55	0 11	19 58	0 7	T 10
W 11	12 33	23 40	3 51	4 13	4 35	20 57	0 8	10 46	3 4	21 14	0 17	20 53	0 11	19 58	0 7	W 11
T 12	12 13	25 10	2 58	4 31	4 34	20 47	0 5	10 54	3 4	21 12	0 17	20 52	0 11	19 59	0 7	T 12
F 13	11 53	25 21	1 59	4 51	4 31	20 36	0 2	11 1	3 4	21 10	0 18	20 51	0 11	19 59	0 7	F 13
S 14	11 33	24 17	0 56	5 15	4 26	20 24	0n 1	11 8	3 4	21 8	0 18	20 49	0 11	19 59	0 7	S 14
S 15	11 12	22 6	0s 9	5 41	4 19	20 12	0 4	11 15	3 4	21 5	0 18	20 48	0 11	19 59	0 7	S 15
M 16	10 52	18 59	1 13	6 10	4 11	19 59	0 7	11 22	3 4	21 3	0 18	20 47	0 11	19 59	0 7	M 16
T 17	10 31	15 7	2 13	6 40	4 0	19 46	0 10	11 29	3 4	21 1	0 18	20 45	0 11	20 0	0 7	T 17
W 18	10 10	10 41	3 7	7 11	3 48	19 32	0 13	11 35	3 3	20 59	0 18	20 44	0 12	20 0	0 7	W 18
T 19	9 48	5 52	3 53	7 43	3 34	19 17	0 16	11 42	3 3	20 56	0 18	20 43	0 12	20 0	0 7	T 19
F 20	9 27	0 50	4 29	8 16	3 19	19 2	0 19	11 48	3 3	20 54	0 18	20 42	0 12	20 0	0 7	F 20
S 21	9 6	4s15	4 54	8 48	3 2	18 46	0 21	11 54	3 2	20 52	0 18	20 40	0 12	20 1	0 7	S 21
S 22	8 44	9 13	5 5	9 18	2 44	18 30	0 24	12 0	3 2	20 49	0 19	20 39	0 12	20 1	0 7	S 22
M 23	8 22	13 53	5 3	9 48	2 26	18 13	0 27	12 5	3 2	20 47	0 19	20 38	0 12	20 1	0 7	M 23
T 24	8 0	18 3	4 47	10 15	2 7	17 56	0 30	12 11	3 1	20 45	0 19	20 37	0 12	20 1	0 7	T 24
W 25	7 38	21 29	4 17	10 39	1 47	17 38	0 32	12 16	3 1	20 43	0 19	20 35	0 12	20 2	0 7	W 25
T 26	7 16	23 57	3 33	11 1	1 28	17 20	0 35	12 21	3 0	20 40	0 19	20 34	0 12	20 2	0 7	T 26
F 27	6 54	25 12	2 38	11 19	1 9	17 1	0 37	12 26	3 0	20 38	0 19	20 33	0 12	20 2	0 7	F 27
S 28	6 31	25 1	1 32	11 34	0 50	16 42	0 40	12 30	2 59	20 36	0 19	20 32	0 13	20 3	0 7	S 28
S 29	6 9	23 16	0 18	11 45	0 32	16 22	0 42	12 35	2 58	20 34	0 20	20 30	0 13	20 3	0 7	S 29
M 30	5 46	20 0	0n58	11 52	0 15	16 2	0 45	12 39	2 58	20 31	0 20	20 29	0 13	20 3	0 7	M 30
T 31	5n23	15s23	2n12	11n55	0n 2	15n41	0n47	12n43	2s57	20n29	0n20	20n28	0n13	20s 4	0n 7	T 31

Julian Day Number = 2292155.5, Delta T = 151.28 sec

ASTRODIENST EPHEMERIS for the year 1563

geocentric

SEPTEMBER 1563 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	23 16 45	17 ^h 20'49	26 ^h 22	29 ^h 03'36	20 ^h 05'55	12 ^h 22'28	0 ^h 02'21	29 ^h 50'50	29 ^h 55'55	7 ^h 54'54	13 ^h 25'25	15 ^h 15'15	13 ^h 43'43	29 ^h 05'57	8 ^h 09'09	W 1
T 2	23 20 42	18 ^h 19'21	11 ^h 16	0 ^h 28'28	22 ^h 02'09	12 ^h 31'31	0 ^h 32'32	29 ^h 56'56	29 ^h 57'57	7 ^h 54'54	13 ^h 23'23	15 ^h 07'07	13 ^h 40'40	0 ^h 04'04	8 ^h 09'09	T 2
F 3	23 24 38	19 ^h 17'55	26 ^h 29	1 ^h 27'27	23 ^h 22'22	12 ^h 40'40	0 ^h 42'42	0 ^h 02'02	29 ^h 59'59	7 ^h 54'54	13 ^h 22'22	14 ^h 58'58	13 ^h 37'37	0 ^h 10'10	8 ^h 08'08	F 3
S 4	23 28 35	20 ^h 16'31	11 ^h 17'32	2 ^h 34'34	24 ^h 35'35	12 ^h 48'48	0 ^h 53'53	0 ^h 08'08	0 ^h 00'00	7 ^h 54'54	13 ^h 21'21	14 ^h 48'48	13 ^h 34'34	0 ^h 17'17	8 ^h 08'08	S 4
S 5	23 32 31	21 ^h 15'09	26 ^h 16	3 ^h 47'47	25 ^h 49'49	12 ^h 56'56	1 ^h 04'04	0 ^h 13'13	0 ^h 02'02	7 ^h 54'54	13 ^h 20'20	14 ^h 39'39	13 ^h 31'31	0 ^h 24'24	8 ^h 08'08	S 5
M 6	23 36 28	22 ^h 13'50	10 ^h 32'32	5 ^h 06'06	27 ^h 02'02	13 ^h 02'02	1 ^h 14'14	0 ^h 19'19	0 ^h 04'04	7 ^h 54'54	13 ^h 18'18	14 ^h 31'31	13 ^h 27'27	0 ^h 30'30	8 ^h 08'08	M 6
T 7	23 40 24	23 ^h 12'32	24 ^h 19	6 ^h 31'31	28 ^h 16'16	13 ^h 08'08	1 ^h 25'25	0 ^h 25'25	0 ^h 06'06	7 ^h 54'54	13 ^h 17'17	14 ^h 26'26	13 ^h 24'24	0 ^h 37'37	8 ^h 08'08	T 7
W 8	23 44 21	24 ^h 11'17	7 ^h 11'37	8 ^h 00'00	29 ^h 30'30	13 ^h 13'13	1 ^h 35'35	0 ^h 31'31	0 ^h 08'08	7 ^h 54'54	13 ^h 16'16	14 ^h 22'22	13 ^h 21'21	0 ^h 44'44	8 ^h 09'09	W 8
T 9	23 48 17	25 ^h 10'04	20 ^h 27'27	9 ^h 33'33	0 ^h 43'43	13 ^h 17'17	1 ^h 46'46	0 ^h 36'36	0 ^h 10'10	7 ^h 53'53	13 ^h 15'15	14 ^h 21'21	13 ^h 18'18	0 ^h 50'50	8 ^h 09'09	T 9
F 10	23 52 14	26 ^h 08'54	2 ^h 55'55	11 ^h 09'09	1 ^h 57'57	13 ^h 20'20	1 ^h 56'56	0 ^h 42'42	0 ^h 12'12	7 ^h 53'53	13 ^h 14'14	14 ^h 21'21	13 ^h 15'15	0 ^h 57'57	8 ^h 09'09	F 10
S 11	23 56 11	27 ^h 07'46	15 ^h 06'06	12 ^h 48'48	3 ^h 11'11	13 ^h 22'22	2 ^h 06'06	0 ^h 47'47	0 ^h 14'14	7 ^h 53'53	13 ^h 12'12	14 ^h 21'21	13 ^h 11'11	1 ^h 04'04	8 ^h 10'10	S 11
S 12	0 0 7	28 ^h 06'40	27 ^h 04'04	14 ^h 30'30	4 ^h 25'25	13 ^h 23'23	2 ^h 16'16	0 ^h 53'53	0 ^h 16'16	7 ^h 52'52	13 ^h 11'11	14 ^h 21'21	13 ^h 08'08	1 ^h 11'11	8 ^h 10'10	S 12
M13	0 4 4	29 ^h 05'36	8 ^h 05'55	16 ^h 13'13	5 ^h 39'39	13 ^h 24'24	2 ^h 26'26	0 ^h 58'58	0 ^h 18'18	7 ^h 52'52	13 ^h 10'10	14 ^h 18'18	13 ^h 05'05	1 ^h 17'17	8 ^h 11'11	M13
T 14	0 8 0	0 ^h 4'34	20 ^h 43'43	17 ^h 58'58	6 ^h 53'53	13 ^h 24'24	2 ^h 36'36	1 ^h 03'03	0 ^h 21'21	7 ^h 52'52	13 ^h 09'09	14 ^h 13'13	13 ^h 02'02	1 ^h 24'24	8 ^h 12'12	T 14
W15	0 11 57	1 ^h 03'35	2 ^h 32'32	19 ^h 44'44	8 ^h 07'07	13 ^h 22'22	2 ^h 46'46	1 ^h 08'08	0 ^h 23'23	7 ^h 51'51	13 ^h 08'08	14 ^h 05'05	12 ^h 59'59	1 ^h 31'31	8 ^h 13'13	W15
T 16	0 15 53	2 ^h 02'37	14 ^h 24'24	21 ^h 31'31	9 ^h 21'21	13 ^h 20'20	2 ^h 55'55	1 ^h 13'13	0 ^h 25'25	7 ^h 51'51	13 ^h 07'07	13 ^h 54'54	12 ^h 56'56	1 ^h 37'37	8 ^h 13'13	T 16
F 17	0 19 50	3 ^h 01'42	26 ^h 23'23	23 ^h 18'18	10 ^h 35'35	13 ^h 17'17	3 ^h 05'05	1 ^h 18'18	0 ^h 28'28	7 ^h 50'50	13 ^h 05'05	13 ^h 41'41	12 ^h 52'52	1 ^h 44'44	8 ^h 14'14	F 17
S 18	0 23 46	4 ^h 00'49	8 ^h 05'28	25 ^h 05'05	11 ^h 49'49	13 ^h 13'13	3 ^h 14'14	1 ^h 23'23	0 ^h 30'30	7 ^h 50'50	13 ^h 04'04	13 ^h 27'27	12 ^h 49'49	1 ^h 51'51	8 ^h 15'15	S 18
S 19	0 27 43	4 ^h 59'58	20 ^h 42'42	26 ^h 53'53	13 ^h 03'03	13 ^h 08'08	3 ^h 23'23	1 ^h 28'28	0 ^h 32'32	7 ^h 49'49	13 ^h 03'03	13 ^h 13'13	12 ^h 46'46	1 ^h 57'57	8 ^h 17'17	S 19
M20	0 31 40	5 ^h 59'09	3 ^h 11'57	28 ^h 40'40	14 ^h 17'17	13 ^h 02'02	3 ^h 33'33	1 ^h 33'33	0 ^h 35'35	7 ^h 49'49	13 ^h 02'02	13 ^h 01'01	12 ^h 43'43	2 ^h 04'04	8 ^h 18'18	M20
T 21	0 35 36	6 ^h 58'22	15 ^h 37'37	0 ^h 05'28	15 ^h 32'32	12 ^h 55'55	3 ^h 42'42	1 ^h 38'38	0 ^h 37'37	7 ^h 48'48	13 ^h 01'01	12 ^h 50'50	12 ^h 40'40	2 ^h 11'11	8 ^h 19'19	T 21
W22	0 39 33	7 ^h 57'37	28 ^h 20'20	2 ^h 15'15	16 ^h 46'46	12 ^h 48'48	3 ^h 51'51	1 ^h 42'42	0 ^h 40'40	7 ^h 47'47	13 ^h 00'00	12 ^h 43'43	12 ^h 37'37	2 ^h 17'17	8 ^h 20'20	W22
T 23	0 43 29	8 ^h 56'54	11 ^h 07'16	4 ^h 01'01	18 ^h 00'00	12 ^h 39'39	4 ^h 00'00	1 ^h 47'47	0 ^h 43'43	7 ^h 47'47	12 ^h 59'59	12 ^h 38'38	12 ^h 33'33	2 ^h 24'24	8 ^h 22'22	T 23
F 24	0 47 26	9 ^h 56'12	24 ^h 26'26	5 ^h 47'47	19 ^h 15'15	12 ^h 30'30	4 ^h 08'08	1 ^h 51'51	0 ^h 45'45	7 ^h 46'46	12 ^h 58'58	12 ^h 36'36	12 ^h 30'30	2 ^h 31'31	8 ^h 23'23	F 24
S 25	0 51 22	10 ^h 55'33	7 ^h 53'53	7 ^h 32'32	20 ^h 29'29	12 ^h 20'20	4 ^h 17'17	1 ^h 56'56	0 ^h 48'48	7 ^h 45'45	12 ^h 57'57	12 ^h 35'35	12 ^h 27'27	2 ^h 37'37	8 ^h 25'25	S 25
S 26	0 55 19	11 ^h 54'55	21 ^h 39'39	9 ^h 17'17	21 ^h 43'43	12 ^h 09'09	4 ^h 25'25	2 ^h 00'00	0 ^h 51'51	7 ^h 44'44	12 ^h 55'55	12 ^h 35'35	12 ^h 24'24	2 ^h 44'44	8 ^h 27'27	S 26
M27	0 59 15	12 ^h 54'19	5 ^h 05'45	11 ^h 01'01	22 ^h 58'58	11 ^h 57'57	4 ^h 34'34	2 ^h 04'04	0 ^h 53'53	7 ^h 44'44	12 ^h 54'54	12 ^h 34'34	12 ^h 21'21	2 ^h 51'51	8 ^h 28'28	M27
T 28	1 3 12	13 ^h 53'44	20 ^h 12'12	12 ^h 45'45	24 ^h 12'12	11 ^h 44'44	4 ^h 42'42	2 ^h 08'08	0 ^h 56'56	7 ^h 43'43	12 ^h 53'53	12 ^h 31'31	12 ^h 17'17	2 ^h 58'58	8 ^h 30'30	T 28
W29	1 7 9	14 ^h 53'12	4 ^h 05'55	14 ^h 28'28	25 ^h 27'27	11 ^h 31'31	4 ^h 50'50	2 ^h 12'12	0 ^h 59'59	7 ^h 42'42	12 ^h 52'52	12 ^h 26'26	12 ^h 14'14	3 ^h 04'04	8 ^h 32'32	W29
T 30	1 11 5	15 ^h 52'41	19 ^h 05'50	16 ^h 05'10	26 ^h 42'42	11 ^h 17'17	4 ^h 05'58	2 ^h 01'16	1 ^h 02'12	7 ^h 41'41	12 ^h 51'51	12 ^h 25'25	12 ^h 11'11	3 ^h 01'11	8 ^h 33'34	T 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	5n 1	9s45	3n19	11n54	0n17	15n20	0n50	12n47	2s56	20n27	0n20	20n27	0n13	20s 4	0n 7	20n 6	1s36	20s30	15s11	22s37	22s47	8n 2	16s15	7n 1			
T 2	4 38	3 28	4 12	11 49	0 31	14 59	0 52	12 51	2 56	20 25	0 20	20 26	0 13	20 4	0 7	20 6	1 36	20 30	15 11	22 38	22 48	7 59	16 15	7 0			
F 3	4 15	3n 0	4 48	11 40	0 44	14 37	0 54	12 54	2 55	20 23	0 20	20 24	0 13	20 5	0 7	20 6	1 36	20 31	15 11	22 39	22 48	7 56	16 16	7 0			
S 4	3 52	9 13	5 3	11 28	0 56	14 14	0 56	12 58	2 54	20 20	0 20	20 23	0 13	20 5	0 7	20 6	1 36	20 31	15 11	22 40	22 48	7 53	16 16	6 59			
S 5	3 29	14 46	4 57	11 11	1 7	13 52	0 58	13 1	2 53	20 18	0 20	20 22	0 13	20 6	0 7	20 6	1 36	20 32	15 11	22 41	22 49	7 50	16 17	6 59			
M 6	3 5	19 20	4 33	10 51	1 17	13 28	1 0	13 4	2 52	20 16	0 21	20 21	0 14	20 6	0 7	20 6	1 36	20 32	15 11	22 42	22 49	7 47	16 17	6 58			
T 7	2 42	22 40	3 53	10 27	1 25	13 5	1 2	13 6	2 51	20 14	0 21	20 20	0 14	20 6	0 7	20 6	1 36	20 32	15 11	22 43	22 49	7 45	16 18	6 58			
W 8	2 19	24 38	3 2	10 1	1 32	12 41	1 4	13 9	2 50	20 12	0 21	20 19	0 14	20 7	0 7	20 6	1 36	20 33	15 11	22 43	22 50	7 42	16 18	6 57			
T 9	1 55	25 12	2 4	9 31	1 38	12 16	1 6	13 11	2 48	20 9	0 21	20 18	0 14	20 7	0 7	20 6	1 36	20 33	15 11	22 43	22 50	7 39	16 19	6 57			
F 10	1 32	24 28	1 0	8 59	1 43	11 52	1 8	13 13	2 47	20 7	0 21	20 17	0 14	20 8	0 7	20 6	1 36	20 34	15 11	22 43	22 50	7 36	16 19	6 56			
S 11	1 9	22 35	0s 4	8 25	1 47	11 27	1 10	13 15	2 46	20 5	0 21	20 16	0 14	20 8	0 7	20 6	1 36	20 34	15 11	22 43	22 50	7 33	16 20	6 56			
S 12	0 45	19 42	1 7	7 48	1 50	11 1	1 11	13 17	2 45	20 3	0 21	20 14	0 14	20 9	0 7	20 6	1 36	20 35	15 11	22 43	22 51	7 30	16 20	6 55			
M13	0 22	16 2	2 6	7 10	1 52	10 36	1 13	13 18	2 43	20 1	0 22	20 13	0 14	20 9	0 7	20 6	1 36	20 35	15 11	22 44	22 51	7 27	16 21	6 55			
T 14	0s 2	11 47	3 0	6 30	1 53	10 10	1 14	13 20	2 42	19 59	0 22	20 12	0 14	20 10	0 7	20 5	1 36	20 35	15 11	22 44	22 51	7 24	16 21	6 54			
W15	0 25	7 5	3 46	5 49	1 53	9 43	1 16	13 21	2 40	19 57	0 22	20 11	0 15	20 10	0 7	20 5	1 36	20 36	15 11	22 45	22 52	7 21	16 22	6 54			
T 16	0 49	2 8	4 22	5 6	1 53	9 17	1 17	13 22	2 38	19 55	0 22	20 10	0 15	20 11	0 7	20 5	1 36	20 36	15 10	22 46	22 52	7 18	16 22	6 53			
F 17	1 12	2s56	4 47	4 22	1 52	8 50	1 19	13 22	2 37	19 53	0 22	20 9	0 15	20 11	0 7	20 5	1 36	20 36	15 10	22 47	22 52	7 15	16 23	6 52			
S 18	1 36	7 56	4 59	3 38	1 50	8 23	1 20	13 23	2 35	19 51	0 22	20 8	0 15	20 12	0 7	20 5	1 36	20 37	15 10	22 49	22 53	7 13	16 23	6 52			
S 19	1 59	12 41	4 57	2 53	1 47	7 55	1 21	13 23	2 33	19 49	0 23	20 7	0 15	20 12	0 7	20 5	1 36	20 37	15 10	22 50	22 53	7 10	16 24	6 51			
M20	2 23	16 59	4 42	2 8	1 45	7 28	1 22	13 23	2 31	19 47	0 23	20 6	0 15	20 13	0 7	20 5	1 36	20 37	15 10	22 52	22 53	7 7	16 24	6 51			
T 21	2 46	20 35	4 13	1 22	1 41	7 0	1 23	13 23	2 29	19 45	0 23	20 6	0 15	20 13	0 7	20 5	1 36	20 38	15 10	22 53	22 54	7 4	16 25	6 50			
W22	3 10	23 16	3 31	0 36	1 37	6 32	1 24	13 23	2 27	19 43	0 23	20 5	0 15	20 14	0 7	20 4	1 37	20 38	15 10	22 53	22 54	7 1	16 25	6 50			
T 23	3 33	24 47	2 37	0s11	1 33	6 4	1 25	13 22	2 25	19 41	0 23	20 4	0 15	20 14	0 7	20 4	1 37	20 38	15 10	22 54	22 54	6 58	16 25	6 49			
F 24	3 57	24 57	1 34	0 57	1 29	5 35	1 26	13 21	2 23	19 39	0 23	20 3	0 16	20 15	0 7	20 4	1 37	20 39	15 10	22 54	22 54	6 55	16 26	6 49			
S 25	4 20	23 41	0 25	1 43	1 24	5 7	1 27	13 20	2 21	19 37	0 24	20 2	0 16	20 15	0 7	20 4	1 37	20 39	15 9	22 54	22 55	6 52	16 26	6 48			
S 26	4 43	20 58	0n48	2 29	1 19	4 38	1 28	13 19	2 18	19 35	0 24	20 1	0 16	20 16	0 7	20 4	1 37	20 39	15 9	22 54	22 55	6 49	16 27	6 48			
M27	5 7	16 57	1 59	3 15	1 13	4 9	1 28	13 18	2 16	19 33	0 24	20 0	0 16	20 17	0 7	20 4	1 37	20 40	15 9	22 54	22 55	6 46	16 27	6 47			
T 28	5 30	11 52	3 5	4 1	1 7	3 40	1 29	13 16	2 14	19 31	0 24	20 0	0 16	20 17	0 7	20 3	1 37	20 40	15 9	22 54	22 56	6 43	16 27	6 47			
W29	5 53	6 1	3 59	4 46	1 2	3 11	1 30	13 15	2 11	19 30	0 24	19 59	0 16	20 18	0 7	20 3	1 37	20 40	15 9	22 55	22 56	6 41	16 28	6 46			
T 30	6s16	0n13	4n38	5s31	0n56	2n42	1n30	13n13	2s 8	19n28	0n24	19n58	0n16	20s18	0n 7	20n 3	1s37	20s40	15s 9	22s56	22s56	6n38	16s28	6n46			

ASTRODIENST EPHEMERIS for the year 1563
geocentric

OCTOBER 1563 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	1 15 2	16 ⁵² 12	4 ⁴⁹ 49	17 ⁵¹ 51	27 ¹⁰ 56	11 ¹⁰ R 2	5 ⁵⁰ 6	2 ⁵⁰ 20	1 ⁵⁰ 5	7 ¹⁰ R40	12 ¹⁰ R50	12 ¹⁰ R 6	12 ¹⁰ 8	3 ¹⁰ 18	8 ¹⁰ 36	F 1
S 2	1 18 58	17 ⁵¹ 45	19 ⁴²	19 ³²	29 ¹¹	10 ¹⁰ 847	5 ¹³	2 ²³	1 ⁷	7 ¹⁰ II39	12 ¹⁰ 49	11 ¹⁰ 55	12 ¹⁰ 5	3 ²⁴	8 ³⁸	S 2
S 3	1 22 55	18 ⁵¹ 20	4 ⁴⁸ 21	21 ¹²	0 ⁵² 26	10 ¹⁰ 30	5 ²¹	2 ²⁷	1 ¹⁰	7 ³⁸	12 ⁴⁸	11 ⁴³	12 ²	3 ³¹	8 ⁴⁰	S 3
M 4	1 26 51	19 ⁵⁰ 57	18 ³⁷	22 ⁵²	1 ⁴⁰	10 ¹⁴	5 ²⁸	2 ³¹	1 ¹³	7 ³⁷	12 ⁴⁷	11 ³⁴	11 ⁵⁸	3 ³⁸	8 ⁴³	M 4
T 5	1 30 48	20 ⁵⁰ 36	2 ¹¹ 27	24 ³¹	2 ⁵⁵	9 ⁵⁶	5 ³⁶	2 ³⁴	1 ¹⁶	7 ³⁶	12 ⁴⁷	11 ²⁶	11 ⁵⁵	3 ⁴⁴	8 ⁴⁵	T 5
W 6	1 34 44	21 ⁵⁰ 18	15 ⁴⁸	26 ⁹	4 ¹⁰	9 ³⁸	5 ⁴³	2 ³⁷	1 ¹⁹	7 ³⁵	12 ⁴⁶	11 ²²	11 ⁵²	3 ⁵¹	8 ⁴⁷	W 6
T 7	1 38 41	22 ⁵⁰ 02	28 ⁴²	27 ⁴⁷	5 ²⁵	9 ²⁰	5 ⁵⁰	2 ⁴¹	1 ²²	7 ³⁴	12 ⁴⁵	11 ¹⁹	11 ⁴⁹	3 ⁵⁸	8 ⁵⁰	T 7
F 8	1 42 38	23 ⁴⁹ 48	11 ⁵³ 14	29 ²⁴	6 ⁴⁰	9 ¹	5 ⁵⁷	2 ⁴⁴	1 ²⁵	7 ³³	12 ⁴⁴	11 ¹⁹ D19	11 ⁴⁶	4 ⁴	8 ⁵³	F 8
S 9	1 46 34	24 ⁴⁹ 36	23 ²⁶	1 ¹⁰ 0	7 ⁵⁵	8 ⁴¹	6 ³	2 ⁴⁷	1 ²⁹	7 ³²	12 ⁴³	11 ¹⁹ R19	11 ⁴³	4 ¹¹	8 ⁵⁵	S 9
S 10	1 50 31	25 ⁴⁹ 27	5 ⁵² 25	2 ³⁶	9 ¹⁰	8 ²²	6 ¹⁰	2 ⁵⁰	1 ³²	7 ³¹	12 ⁴²	11 ¹⁹	11 ³⁹	4 ¹⁸	8 ⁵⁸	S 10
M 11	1 54 27	26 ⁴⁹ 20	17 ¹⁷	4 ¹²	10 ²⁴	8 ¹	6 ¹⁶	2 ⁵³	1 ³⁵	7 ³⁰	12 ⁴¹	11 ¹⁷	11 ³⁶	4 ²⁵	9 ¹	M 11
T 12	1 58 24	27 ⁴⁹ 15	29 ⁶	5 ⁴⁷	11 ³⁹	7 ⁴¹	6 ²³	2 ⁵⁵	1 ³⁸	7 ²⁸	12 ⁴¹	11 ¹²	11 ³³	4 ³¹	9 ⁴	T 12
W 13	2 2 20	28 ⁴⁹ 12	10 ¹⁰ 17	7 ²¹	12 ⁵⁴	7 ²⁰	6 ²⁹	2 ⁵⁸	1 ⁴¹	7 ²⁷	12 ⁴⁰	11 ⁵	11 ³⁰	4 ³⁸	9 ⁶	W 13
T 14	2 6 17	29 ⁴⁹ 11	22 ⁵³	8 ⁵⁵	14 ¹⁰	6 ⁵⁹	6 ³⁵	3 ⁰	1 ⁴⁵	7 ²⁶	12 ³⁹	10 ⁵⁶	11 ²⁷	4 ⁴⁵	9 ⁹	T 14
F 15	2 10 13	0 ¹⁰ 49'12	4 ⁵⁵ 59	10 ²⁹	15 ²⁵	6 ³⁸	6 ⁴⁰	3 ³	1 ⁴⁸	7 ²⁵	12 ³⁸	10 ⁴⁴	11 ²³	4 ⁵¹	9 ¹²	F 15
S 16	2 14 10	1 ⁴⁹ 15	17 ¹⁵	12 ²	16 ⁴⁰	6 ¹⁷	6 ⁴⁶	3 ⁵	1 ⁵¹	7 ²³	12 ³⁷	10 ³¹	11 ²⁰	4 ⁵⁸	9 ¹⁶	S 16
S 17	2 18 6	2 ⁴⁹ 21	29 ⁴²	13 ³⁴	17 ⁵⁵	5 ⁵⁶	6 ⁵²	3 ⁷	1 ⁵⁴	7 ²²	12 ³⁷	10 ¹⁹	11 ¹⁷	5 ⁵	9 ¹⁹	S 17
M 18	2 22 3	3 ⁴⁹ 28	12 ¹⁰ 22	15 ⁶	19 ¹⁰	5 ³⁴	6 ⁵⁷	3 ⁹	1 ⁵⁸	7 ²¹	12 ³⁶	10 ⁷	11 ¹⁴	5 ¹¹	9 ²²	M 18
T 19	2 26 0	4 ⁴⁹ 37	25 ¹²	16 ³⁸	20 ²⁵	5 ¹³	7 ²	3 ¹¹	2 ¹	7 ¹⁹	12 ³⁵	9 ⁵⁷	11 ¹¹	5 ¹⁸	9 ²⁵	T 19
W 20	2 29 56	5 ⁴⁹ 48	8 ⁵¹ 14	18 ⁹	21 ⁴⁰	4 ⁵²	7 ⁷	3 ¹³	2 ⁵	7 ¹⁸	12 ³⁵	9 ⁵⁰	11 ⁸	5 ²⁵	9 ²⁹	W 20
T 21	2 33 53	6 ⁵⁰ 00	21 ²⁷	19 ⁴⁰	22 ⁵⁵	4 ³¹	7 ¹²	3 ¹⁵	2 ⁸	7 ¹⁶	12 ³⁴	9 ⁴⁶	11 ⁴	5 ³²	9 ³²	T 21
F 22	2 37 49	7 ⁵⁰ 15	4 ⁵³ 51	21 ¹¹	24 ¹¹	4 ¹¹	7 ¹⁶	3 ¹⁷	2 ¹¹	7 ¹⁵	12 ³³	9 ⁴⁵	11 ¹	5 ³⁸	9 ³⁶	F 22
S 23	2 41 46	8 ⁵⁰ 30	18 ²⁶	22 ⁴¹	25 ²⁶	3 ⁵⁰	7 ²¹	3 ¹⁸	2 ¹⁵	7 ¹⁴	12 ³³	9 ⁴⁵	10 ⁵⁸	5 ⁴⁵	9 ³⁹	S 23
S 24	2 45 42	9 ⁵⁰ 47	2 ⁵⁵ 13	24 ¹⁰	26 ⁴¹	3 ³⁰	7 ²⁵	3 ²⁰	2 ¹⁸	7 ¹²	12 ³²	9 ⁴⁵	10 ⁵⁵	5 ⁵²	9 ⁴³	S 24
M 25	2 49 39	10 ⁵¹ 06	16 ¹²	25 ³⁹	27 ⁵⁶	3 ¹¹	7 ²⁹	3 ²¹	2 ²²	7 ¹¹	12 ³²	9 ⁴⁶	10 ⁵²	5 ⁵⁸	9 ⁴⁷	M 25
T 26	2 53 35	11 ⁵¹ 26	0 ¹⁰ 24	27 ⁸	29 ¹²	2 ⁵¹	7 ³³	3 ²²	2 ²⁵	7 ⁹	12 ³¹	9 ⁴⁴	10 ⁴⁸	6 ⁵	9 ⁵⁰	T 26
W 27	2 57 32	12 ⁵¹ 47	14 ⁴⁷	28 ³⁶	0 ¹⁰ 27	2 ³²	7 ³⁷	3 ²³	2 ²⁹	7 ⁸	12 ³¹	9 ⁴⁰	10 ⁴⁵	6 ¹²	9 ⁵⁴	W 27
T 28	3 1 29	13 ⁵² 10	29 ¹⁷	0 ¹⁰ 4	1 ⁴²	2 ¹⁴	7 ⁴⁰	3 ²⁴	2 ³²	7 ⁶	12 ³⁰	9 ³⁴	10 ⁴²	6 ¹⁸	9 ⁵⁸	T 28
F 29	3 5 25	14 ⁵² 34	13 ¹⁰ 49	1 ³¹	2 ⁵⁸	1 ⁵⁶	7 ⁴⁴	3 ²⁵	2 ³⁶	7 ⁵	12 ³⁰	9 ²⁶	10 ³⁹	6 ²⁵	10 ²	F 29
S 30	3 9 22	15 ⁵² 59	28 ¹⁸	2 ⁵⁸	4 ¹³	1 ³⁹	7 ⁴⁷	3 ²⁶	2 ³⁹	7 ³	12 ²⁹	9 ¹⁷	10 ³⁶	6 ³²	10 ⁶	S 30
S 31	3 13 18	16 ⁵³ 27	12 ¹⁰ 36	4 ¹⁰ 24	5 ¹⁰ 28	1 ¹⁰ 23	7 ⁵⁰	3 ²⁷	2 ¹⁰ 43	7 ¹⁰ II 2	12 ¹⁰ 29	9 ¹⁰ 8	10 ¹⁰ 33	6 ¹⁰ 39	10 ¹⁰ 10	S 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	6s39	6n28	4n58	6s16	0n49	2n12	1n30	13n11	2s 6	19n26	0n25	19n57	0n16	20s19	0n 7	20n 3	1s37	20s41	15s 8	22s57	22s56	6n35	16s29	6n45							
S 2	7 1	12 19	4 58	7 0	0 43	1 43	1 31	13 9	2 3	19 24	0 25	19 57	0 17	20 20	0 7	20 3	1 37	20 41	15 8	22 58	22 57	6 32	16 29	6 45							
S 3	7 24	17 21	4 38	7 44	0 37	1 13	1 31	13 6	2 0	19 23	0 25	19 56	0 17	20 20	0 7	20 3	1 37	20 41	15 8	22 59	22 57	6 29	16 29	6 44							
M 4	7 47	21 15	4 0	8 27	0 30	0 44	1 31	13 4	1 57	19 21	0 25	19 55	0 17	20 21	0 7	20 2	1 37	20 41	15 8	23 0	22 57	6 26	16 30	6 44							
T 5	8 9	23 48	3 10	9 9	0 23	0 14	1 31	13 1	1 54	19 19	0 25	19 54	0 17	20 21	0 7	20 2	1 37	20 41	15 8	23 0	22 58	6 23	16 30	6 43							
W 6	8 32	24 54	2 11	9 52	0 17	0s16	1 31	12 58	1 51	19 18	0 25	19 54	0 17	20 22	0 7	20 2	1 37	20 42	15 8	23 1	22 58	6 20	16 30	6 43							
T 7	8 54	24 36	1 6	10 33	0 10	0 46	1 31	12 56	1 48	19 16	0 26	19 53	0 17	20 23	0 7	20 2	1 37	20 42	15 7	23 1	22 58	6 17	16 31	6 42							
F 8	9 16	23 2	0 0	11 14	0 3	1 15	1 31	12 53	1 45	19 15	0 26	19 53	0 17	20 23	0 7	20 1	1 37	20 42	15 7	23 1	22 58	6 14	16 31	6 42							
S 9	9 38	20 24	1s 4	11 54	0s 3	1 45	1 31	12 49	1 42	19 13	0 26	19 52	0 17	20 24	0 7	20 1	1 37	20 42	15 7	23 1	22 59	6 11	16 31	6 41							
S 10	10 0	16 57	2 4	12 34	0 10	2 15	1 31	12 46	1 39	19 12	0 26	19 52	0 18	20 25	0 7	20 1	1 37	20 42	15 7	23 1	22 59	6 9	16 32	6 41							
M 11	10 22	12 51	2 58	13 13	0 17	2 45	1 30	12 43	1 35	19 10	0 26	19 51	0 18	20 25	0 7	20 1	1 37	20 42	15 6	23 1	22 59	6 6	16 32	6 40							
T 12	10 43	8 18	3 45	13 51	0 24	3 15	1 30	12 39	1 32	19 9	0 26	19 50	0 18	20 26	0 7	20 1	1 37	20 42	15 6	23 1	23 0	6 3	16 32	6 40							
W 13	11 5	3 27	4 21	14 29	0 30	3 44	1 29	12 36	1 29	19 8	0 27	19 50	0 18	20 27	0 6	20 0	1 37	20 43	15 6	23 2	23 0	6 0	16 33	6 39							
T 14	11 26	1s34	4 47	15 5	0 37	4 14	1 29	12 32	1 25	19 6	0 27	19 50	0 18	20 27	0 6	20 0	1 37	20 43	15 6	23 3	23 0	5 57	16 33	6 39							
F 15	11 47	6 34	5 0	15 41	0 44	4 43	1 28	12 28	1 22	19 5	0 27	19 49	0 18	20 28	0 6	20 0	1 37	20 43	15 5	23 4	23 0	5 54	16 33	6 38							
S 16	12 8	11 24	5 0	16 17	0 50	5 13	1 28	12 25	1 18	19 4	0 27	19 49	0 18	20 29	0 6	20 0	1 37	20 43	15 5	23 5	23 1	5 51	16 33	6 38							
S 17	12 29	15 50	4 45	16 51	0 57	5 42	1 27	12 21	1 15	19 3	0 27	19 48	0 18	20 29	0 6	19 59	1 37	20 43	15 5	23 6	23 1	5 48	16 33	6 38							
M 18	12 49	19 38	4 16	17 24	1 3	6 12	1 26	12 17	1 11	19 1	0 28	19 48	0 19	20 30	0 6	19 59	1 37	20 43	15 5	23 7	23 1	5 45	16 34	6 37							
T 19	13 10	22 34	3 34	17 57	1 9	6 41	1 25	12 14	1 8	19 0	0 28	19 48	0 19	20 31	0 6	19 59	1 37	20 43	15 4	23 7	23 1	5 42	16 34	6 37							
W 20	13 30	24 21	2 39	18 29	1 15	7 10	1 24	12 10	1 4	18 59	0 28	19 47	0 19	20 31	0 6	19 59	1 37	20 43	15 4	23 8	23 2	5 39	16 34	6 36							
T 21	13 50	24 49	1 36	19 0	1 21	7 39	1 23	12 6	1 1	18 58	0 28	19 47	0 19	20 32	0 6	19 58	1 37	20 43	15 4	23 8	23 2	5 36	16 34	6 36							
F 22	14 9	23 51	0 26	19 30	1 27	8 7	1 22	12 3	0 57	18 57	0 28	19 47	0 19	20 33	0 6	19 58	1 38	20 43	15 4	23 8	23 2	5 34	16 35	6 35							
S 23	14 29	21 28	0n46	19 59	1 33	8 36	1 21	11 59	0 54	18 56	0 29	19 47	0 19	20 33	0 6	19 58	1 38	20 43	15 3	23 8	23 3	5 31	16 35	6 35							
S 24	14 48	17 49	1 57	20 27	1 38	9 4	1 20	11 56	0 50	18 55	0 29	19 46	0 19	20 34	0 6	19 58	1 38	20 43	15 3	23 8	23 3	5 28	16 35	6 35							
M 25	15 7	13 7	2 20	20 54	1 44	9 32	1 19	11 52	0 46	18 55	0 29	19 46	0 20	20 35	0 6	19 57	1 38	20 43	15 3	23 8	23 3	5 25	16 35	6 34							
T 26	15 26	7 40	3 57	21 20	1 49	10 0	1 18	11 49	0 43	18 54	0 29	19 46	0 20	20 35	0 6	19 57	1 38	20 43	15 3	23 8	23 3	5 22	16 35	6 34							
W 27	15 44	1 45	4 37	21 45	1 54	10 28	1 16	11 46	0 39	18 53	0 29	19 46	0 20	20 36	0 6	19 57	1 38	20 43	15 2	23 9	23 4	5 19	16 35	6 33							
T 28	16 2	4n18	5 1	22 9	1 59	10 55	1 15	11 43	0 36	18 52	0 30	19 46	0 20	20 37	0 6	19 57	1 38	20 43	15 2	23 9	23 4	5 16	16 35	6 33							
F 29	16 20	10 8	5 4	22 31	2 3	11 22	1 14	11 40	0 33	18 52	0 30	19 46	0 20	20 38	0 6	19 56	1 38	20 43	15 2	23 10	23 4	5 13	16 35	6 33							
S 30	16 38	15 23	4 49	22 53	2 7	11 49	1 12	11 37	0 29	18 51	0 30	19 46	0 20	20 38	0 6	19 56	1 38	20 42	15 1	23 10	23 4	5 10	16 36	6 32							
S 31	16s55	19n42	4n15	23s13	2s11	12s16	1n11	11n35	0s26	18n50	0n30	19n46	0n20	20s39	0n 6	19n56	1s38	20s42	15s 1	23s11	23s 5	5n 7	16s36	6n32							

ASTRODIENST EPHEMERIS for the year 1563

geocentric

NOVEMBER 1563 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	3 17 15	17 ¹⁷ 53'55	26 ⁸ 37	5 ⁷ 49	6 ¹¹ 44	1 ⁰ R 7	7 ¹² 53	3 ¹² 27	2 ⁷ 47	7 ⁰ R 0	12 ⁰ R28	9 ⁰ R 1	10 ³ 29	6 ¹¹ 45	10 ³ 14	M 1
T 2	3 21 11	18 ⁰ 54'26	10 ¹¹ 18	7 ⁰ 14	7 ⁰ 59	0 ⁸ 51	7 ⁰ 56	3 ⁰ 28	2 ⁰ 50	6 ¹¹ 58	12 ¹ 28	8 ³ 55	10 ⁰ 26	6 ⁰ 52	10 ⁰ 18	T 2
W 3	3 25 8	19 ⁰ 54'58	23 ⁰ 36	8 ⁰ 38	9 ⁰ 14	0 ⁰ 37	7 ⁰ 58	3 ⁰ 28	2 ⁰ 54	6 ⁰ 57	12 ⁰ 28	8 ⁰ 52	10 ⁰ 23	6 ⁰ 59	10 ⁰ 22	W 3
T 4	3 29 4	20 ⁰ 55'32	6 ⁰ 30	10 ⁰ 1	10 ⁰ 30	0 ⁰ 23	8 ⁰ 0	3 ⁰ 28	2 ⁰ 57	6 ⁰ 55	12 ⁰ 27	8 ⁰ D50	10 ⁰ 20	7 ⁰ 5	10 ⁰ 27	T 4
F 5	3 33 1	21 ⁰ 56'07	19 ⁰ 3	11 ⁰ 23	11 ⁰ 45	0 ⁰ 9	8 ⁰ 2	3 ⁰ R28	3 ⁰ 1	6 ⁰ 54	12 ⁰ 27	8 ⁰ 51	10 ⁰ 17	7 ⁰ 12	10 ⁰ 31	F 5
S 6	3 36 58	22 ⁰ 56'45	1 ⁰ 18	12 ⁰ 44	13 ⁰ 0	29 ⁰ 57	8 ⁰ 4	3 ⁰ 28	3 ⁰ 5	6 ⁰ 52	12 ⁰ 27	8 ⁰ 52	10 ⁰ 14	7 ⁰ 19	10 ⁰ 35	S 6
S 7	3 40 54	23 ⁰ 57'24	13 ⁰ 20	14 ⁰ 3	14 ⁰ 16	29 ⁰ 45	8 ⁰ 6	3 ⁰ 28	3 ⁰ 8	6 ⁰ 50	12 ⁰ 27	8 ⁰ 54	10 ⁰ 10	7 ⁰ 25	10 ⁰ 40	S 7
M 8	3 44 51	24 ⁰ 58'04	25 ⁰ 14	15 ⁰ 22	15 ⁰ 31	29 ⁰ 34	8 ⁰ 8	3 ⁰ 28	3 ⁰ 12	6 ⁰ 49	12 ⁰ 26	8 ⁰ R54	10 ⁰ 7	7 ⁰ 32	10 ⁰ 44	M 8
T 9	3 48 47	25 ⁰ 58'46	7 ¹¹ 4	16 ⁰ 38	16 ⁰ 47	29 ⁰ 24	8 ⁰ 9	3 ⁰ 28	3 ⁰ 16	6 ⁰ 47	12 ⁰ 26	8 ⁰ 53	10 ⁰ 4	7 ⁰ 39	10 ⁰ 49	T 9
W10	3 52 44	26 ⁰ 59'30	18 ⁰ 57	17 ⁰ 53	18 ⁰ 2	29 ⁰ 14	8 ⁰ 10	3 ⁰ 27	3 ⁰ 19	6 ⁰ 45	12 ⁰ 26	8 ⁰ 51	10 ⁰ 1	7 ⁰ 46	10 ⁰ 53	W10
T 11	3 56 40	28 ⁰ 0'15	0 ⁰ 56	19 ⁰ 5	19 ⁰ 18	29 ⁰ 6	8 ⁰ 11	3 ⁰ 27	3 ⁰ 23	6 ⁰ 44	12 ⁰ 26	8 ⁰ 46	9 ⁰ 58	7 ⁰ 52	10 ⁰ 58	T 11
F 12	4 0 37	29 ⁰ 1'02	13 ⁰ 6	20 ⁰ 15	20 ⁰ 33	28 ⁰ 58	8 ⁰ 12	3 ⁰ 26	3 ⁰ 27	6 ⁰ 42	12 ⁰ 26	8 ⁰ 40	9 ⁰ 54	7 ⁰ 59	11 ⁰ 3	F 12
S 13	4 4 33	0 ⁰ 1'50	25 ⁰ 29	21 ⁰ 23	21 ⁰ 49	28 ⁰ 51	8 ⁰ 12	3 ⁰ 25	3 ⁰ 30	6 ⁰ 40	12 ⁰ 25	8 ⁰ 33	9 ⁰ 51	8 ⁰ 6	11 ⁰ 7	S 13
S 14	4 8 30	1 ⁰ 2'40	8 ¹¹ 8	22 ⁰ 27	23 ⁰ 4	28 ⁰ 45	8 ⁰ 13	3 ⁰ 24	3 ⁰ 34	6 ⁰ 39	12 ⁰ 25	8 ⁰ 26	9 ⁰ 48	8 ⁰ 12	11 ⁰ 12	S 14
M15	4 12 27	2 ⁰ 3'31	21 ⁰ 3	23 ⁰ 27	24 ⁰ 20	28 ⁰ 39	8 ⁰ R13	3 ⁰ 23	3 ⁰ 38	6 ⁰ 37	12 ⁰ 25	8 ⁰ 20	9 ⁰ 45	8 ⁰ 19	11 ⁰ 17	M15
T 16	4 16 23	3 ⁰ 4'24	4 ⁰ 14	24 ⁰ 24	25 ⁰ 35	28 ⁰ 35	8 ⁰ 13	3 ⁰ 22	3 ⁰ 41	6 ⁰ 35	12 ⁰ 25	8 ⁰ 14	9 ⁰ 42	8 ⁰ 26	11 ⁰ 22	T 16
W17	4 20 20	4 ⁰ 5'17	17 ⁰ 39	25 ⁰ 15	26 ⁰ 51	28 ⁰ 31	8 ⁰ 12	3 ⁰ 21	3 ⁰ 45	6 ⁰ 33	12 ⁰ D25	8 ⁰ 11	9 ⁰ 39	8 ⁰ 32	11 ⁰ 26	W17
T 18	4 24 16	5 ⁰ 6'12	1 ⁰ 37	26 ⁰ 1	28 ⁰ 6	28 ⁰ 28	8 ⁰ 12	3 ⁰ 20	3 ⁰ 49	6 ⁰ 32	12 ⁰ 25	8 ⁰ 9	9 ⁰ 35	8 ⁰ 39	11 ⁰ 31	T 18
F 19	4 28 13	6 ⁰ 7'08	15 ⁰ 6	26 ⁰ 41	29 ⁰ 22	28 ⁰ 26	8 ⁰ 11	3 ⁰ 18	3 ⁰ 52	6 ⁰ 30	12 ⁰ 25	8 ⁰ D 9	9 ⁰ 32	8 ⁰ 46	11 ⁰ 36	F 19
S 20	4 32 9	7 ⁰ 8'04	29 ⁰ 2	27 ⁰ 14	0 ⁰ 37	28 ⁰ 25	8 ⁰ 10	3 ⁰ 17	3 ⁰ 56	6 ⁰ 28	12 ⁰ 25	8 ⁰ 10	9 ⁰ 29	8 ⁰ 53	11 ⁰ 41	S 20
S 21	4 36 6	8 ⁰ 9'02	13 ⁰ 4	27 ⁰ 40	1 ⁰ 53	28 ⁰ D24	8 ⁰ 9	3 ⁰ 15	4 ⁰ 0	6 ⁰ 27	12 ⁰ 25	8 ⁰ 12	9 ⁰ 26	8 ⁰ 59	11 ⁰ 46	S 21
M22	4 40 3	9 ⁰ 9'59	27 ⁰ 11	27 ⁰ 56	3 ⁰ 8	28 ⁰ 25	8 ⁰ 8	3 ⁰ 13	4 ⁰ 4	6 ⁰ 25	12 ⁰ 26	8 ⁰ 13	9 ⁰ 23	9 ⁰ 6	11 ⁰ 51	M22
T 23	4 43 59	10 ⁰ 10'58	11 ⁰ 21	28 ⁰ R 4	4 ⁰ 24	28 ⁰ 26	8 ⁰ 7	3 ⁰ 11	4 ⁰ 7	6 ⁰ 23	12 ⁰ 26	8 ⁰ R14	9 ⁰ 20	9 ⁰ 13	11 ⁰ 56	T 23
W24	4 47 56	11 ⁰ 11'57	25 ⁰ 31	28 ⁰ 1	5 ⁰ 39	28 ⁰ 28	8 ⁰ 5	3 ⁰ 9	4 ⁰ 11	6 ⁰ 22	12 ⁰ 26	8 ⁰ 13	9 ⁰ 16	9 ⁰ 19	12 ⁰ 1	W24
T 25	4 51 52	12 ⁰ 12'57	9 ⁰ 40	27 ⁰ 47	6 ⁰ 55	28 ⁰ 31	8 ⁰ 3	3 ⁰ 7	4 ⁰ 15	6 ⁰ 20	12 ⁰ 26	8 ⁰ 11	9 ⁰ 13	9 ⁰ 26	12 ⁰ 7	T 25
F 26	4 55 49	13 ⁰ 13'57	23 ⁰ 45	27 ⁰ 21	8 ⁰ 10	28 ⁰ 34	8 ⁰ 1	3 ⁰ 5	4 ⁰ 18	6 ⁰ 18	12 ⁰ 26	8 ⁰ 8	9 ⁰ 10	9 ⁰ 33	12 ⁰ 12	F 26
S 27	4 59 45	14 ⁰ 14'58	7 ⁰ 44	26 ⁰ 45	9 ⁰ 26	28 ⁰ 38	7 ⁰ 59	3 ⁰ 3	4 ⁰ 22	6 ⁰ 17	12 ⁰ 26	8 ⁰ 4	9 ⁰ 7	9 ⁰ 39	12 ⁰ 17	S 27
S 28	5 3 42	15 ⁰ 15'59	21 ⁰ 33	25 ⁰ 56	10 ⁰ 41	28 ⁰ 43	7 ⁰ 57	3 ⁰ 0	4 ⁰ 25	6 ⁰ 15	12 ⁰ 27	8 ⁰ 1	9 ⁰ 4	9 ⁰ 46	12 ⁰ 22	S 28
M29	5 7 38	16 ⁰ 17'01	5 ⁰ 11	24 ⁰ 58	11 ⁰ 57	28 ⁰ 49	7 ⁰ 54	2 ⁰ 58	4 ⁰ 29	6 ⁰ 13	12 ⁰ 27	7 ⁰ 58	9 ⁰ 0	9 ⁰ 53	12 ⁰ 27	M29
T 30	5 11 35	17 ⁰ 18'04	18 ⁰ 11	23 ⁰ 50	13 ⁰ 12	28 ⁰ 56	7 ⁰ 51	2 ⁰ 55	4 ⁰ 33	6 ⁰ 12	12 ⁰ 27	7 ⁰ 55	8 ⁰ 57	10 ⁰ 0	12 ⁰ 33	T 30

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	♂	♂			
M 1	17s12	22n48	3n27	23s33	2s15	12s42	1n 9	11n32	0s22	18n50	0n30	19n46	0n20	20s40	0n 6	19n56	1s38	20s42	15s 1	23s11	23s 5	5n 4	16s36	6n31
T 2	17 29	24 29	2 27	23 51	2 18	13 8	1 7	11 30	0 19	18 49	0 31	19 46	0 21	20 40	0 6	19 55	1 38	20 42	15 1	23 12	23 5	5 2	16 36	6 31
W 3	17 46	24 42	1 21	24 7	2 21	13 34	1 6	11 28	0 16	18 49	0 31	19 46	0 21	20 41	0 6	19 55	1 38	20 42	15 0	23 12	23 5	4 59	16 36	6 31
T 4	18 2	23 33	0 13	24 23	2 24	14 0	1 4	11 26	0 13	18 48	0 31	19 46	0 21	20 42	0 6	19 55	1 38	20 42	15 0	23 12	23 6	4 56	16 36	6 30
F 5	18 18	21 14	0s55	24 37	2 26	14 25	1 2	11 24	0 9	18 48	0 31	19 46	0 21	20 43	0 6	19 54	1 38	20 42	15 0	23 12	23 6	4 53	16 36	6 30
S 6	18 33	17 59	1 58	24 49	2 28	14 49	1 0	11 23	0 6	18 48	0 31	19 46	0 21	20 43	0 6	19 54	1 38	20 42	14 59	23 12	23 6	4 50	16 36	6 30
S 7	18 48	14 3	2 56	25 1	2 29	15 14	0 58	11 22	0 3	18 48	0 32	19 46	0 21	20 44	0 6	19 54	1 38	20 41	14 59	23 12	23 6	4 47	16 36	6 29
M 8	19 3	9 37	3 45	25 11	2 30	15 37	0 57	11 21	0 0	18 47	0 32	19 46	0 21	20 45	0 6	19 54	1 38	20 41	14 59	23 12	23 7	4 44	16 36	6 29
T 9	19 18	4 51	4 24	25 19	2 30	16 1	0 55	11 20	0n 3	18 47	0 32	19 47	0 22	20 45	0 6	19 53	1 38	20 41	14 58	23 12	23 7	4 41	16 36	6 29
W10	19 32	0s 5	4 51	25 26	2 30	16 24	0 53	11 19	0 6	18 47	0 32	19 47	0 22	20 46	0 6	19 53	1 38	20 41	14 58	23 12	23 7	4 38	16 36	6 29
T 11	19 46	5 4	5 7	25 31	2 29	16 47	0 51	11 19	0 9	18 47	0 32	19 47	0 22	20 47	0 6	19 53	1 38	20 41	14 58	23 12	23 7	4 35	16 36	6 28
F 12	19 59	9 55	5 9	25 35	2 27	17 9	0 49	11 19	0 11	18 47	0 33	19 47	0 22	20 48	0 6	19 52	1 38	20 40	14 57	23 13	23 8	4 32	16 36	6 28
S 13	20 12	14 28	4 56	25 38	2 25	17 31	0 47	11 19	0 14	18 47	0 33	19 48	0 22	20 48	0 6	19 52	1 38	20 40	14 57	23 13	23 8	4 29	16 36	6 27
S 14	20 25	18 30	4 30	25 38	2 22	17 52	0 44	11 19	0 17	18 47	0 33	19 48	0 22	20 49	0 6	19 52	1 38	20 40	14 57	23 14	23 8	4 27	16 35	6 27
M15	20 37	21 44	3 48	25 38	2 18	18 13	0 42	11 19	0 19	18 47	0 33	19 48	0 22	20 50	0 6	19 52	1 38	20 39	14 56	23 14	23 8	4 24	16 35	6 27
T 16	20 49	23 54	2 54	25 35	2 13	18 33	0 40	11 20	0 22	18 48	0 33	19 49	0 23	20 50	0 6	19 51	1 38	20 39	14 56	23 14	23 8	4 21	16 35	6 27
W17	21 1	24 44	1 50	25 31	2 7	18 53	0 38	11 21	0 25	18 48	0 34	19 49	0 23	20 51	0 6	19 51	1 38	20 39	14 56	23 15	23 9	4 18	16 35	6 26
T 18	21 12	24 7	0 37	25 26	2 0	19 12	0 36	11 22	0 27	18 48	0 34	19 50	0 23	20 52	0 6	19 51	1 38	20 39	14 56	23 15	23 9	4 15	16 35	6 26
F 19	21 23	22 1	0n38	25 19	1 51	19 31	0 33	11 24	0 29	18 49	0 34	19 50	0 23	20 52	0 6	19 50	1 38	20 38	14 55	23 15	23 9	4 12	16 35	6 26
S 20	21 33	18 35	1 52	25 10	1 42	19 49	0 31	11 26	0 32	18 49	0 34	19 51	0 23	20 53	0 6	19 50	1 38	20 38	14 55	23 15	23 9	4 9	16 35	6 26
S 21	21 43	14 4	3 0	25 0	1 31	20 7	0 29	11 28	0 34	18 50	0 35	19 51	0 23	20 54	0 6	19 50	1 38	20 38	14 55	23 15	23 10	4 6	16 34	6 25
M22	21 53	8 46	3 57	24 48	1 19	20 24	0 27	11 30	0 36	18 50	0 35	19 52	0 23	20 55	0 6	19 50	1 38	20 37	14 54	23 14	23 10	4 3	16 34	6 25
T 23	22 2	3 1	4 40	24 34	1 5	20 40	0 24	11 32	0 38	18 51	0 35	19 52	0 24	20 55	0 6	19 49	1 38	20 37	14 54	23 14	23 10	4 0	16 34	6 25
W24	22 10	2n54	5 6	24 19	0 50	20 56	0 22	11 35	0 40	18 51	0 35	19 53	0 24	20 56	0 6	19 49	1 38	20 37	14 54	23 14	23 10	3 57	16 34	6 25
T 25	22 19	8 38	5 14	24 3	0 34	21 12	0 20	11 38	0 42	18 52	0 35	19 54	0 24	20 57	0 6	19 49	1 38	20 36	14 53	23 15	23 10	3 55	16 34	6 24
F 26	22 26	13 55	5 2	23 44	0 16	21 26	0 17	11 41	0 44	18 53	0 36	19 54	0 24	20 57	0 6	19 48	1 38	20 36	14 53	23 15	23 11	3 52	16 33	6 24
S 27	22 34	18 25	4 33	23 25	0n 2	21 40	0 15	11 44	0 46	18 54	0 36	19 55	0 24	20 58	0 6	19 48	1 38	20 35	14 53	23 15	23 11	3 49	16 33	6 24
S 28	22 41	21 52	3 48	23 4	0 22	21 54	0 13	11 48	0 48	18 54	0 36	19 56	0 24	20 59	0 6	19 48	1 38	20 35	14 52	23 15	23 11	3 46	16 33	6 24
M29	22 47	24 0	2 51	22 42	0 42	22 6	0 10	11 52	0 50	18 55	0 36	19 56	0 24	20 59	0 6	19 48	1 38	20 35	14 52	23 15	23 11	3 43	16 33	6 24
T 30	22s53	24n44	1n45	22s19	1n 2	22s19	0n 8	11n56	0n52	18n56	0n37	19n57	0n25	21s 0	0n 6	19n47	1s38	20s34	14s52	23s16	23s12	3n40	16s32	6n23

ASTRODIENST EPHEMERIS for the year 1563

geocentric

DECEMBER 1563 JC

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	5 15 32	18°19'08	1°33	22°R35	14°28	29°V 3	7°R48	2°R52	4°236	6°R10	12°H28	7°D54	8°354	10°M 6	12°38	W 1
T 2	5 19 28	19°20'12	14°18	21°14	15°43	29°10	7°45	2°50	4°40	6°II 8	12°28	7°354	8°51	10°13	12°43	T 2
F 3	5 23 25	20°21'17	26°48	19°52	16°59	29°19	7°42	2°47	4°44	6° 7	12°28	7°55	8°48	10°20	12°49	F 3
S 4	5 27 21	21°22'22	9°2	18°29	18°14	29°28	7°38	2°44	4°47	6° 5	12°29	7°57	8°45	10°26	12°54	S 4
S 5	5 31 18	22°23'29	21° 5	17°10	19°30	29°38	7°34	2°41	4°51	6° 3	12°29	7°58	8°41	10°33	13° 0	S 5
M 6	5 35 14	23°24'36	3°M 0	15°56	20°45	29°48	7°31	2°37	4°54	6° 2	12°30	7°59	8°38	10°40	13° 5	M 6
T 7	5 39 11	24°25'43	14°51	14°50	22° 1	29°59	7°26	2°34	4°58	6° 0	12°30	8° 0	8°35	10°47	13°10	T 7
W 8	5 43 7	25°26'52	26°44	13°54	23°16	0°811	7°22	2°31	5° 1	5°59	12°31	8°R 1	8°32	10°53	13°16	W 8
T 9	5 47 4	26°28'01	8°243	13° 7	24°32	0°23	7°18	2°27	5° 5	5°57	12°31	8° 0	8°29	11° 0	13°21	T 9
F 10	5 51 1	27°29'10	20°52	12°31	25°48	0°36	7°13	2°24	5° 8	5°55	12°32	7°59	8°26	11° 7	13°27	F 10
S 11	5 54 57	28°30'20	3°M16	12° 5	27° 3	0°49	7° 8	2°20	5°12	5°54	12°32	7°58	8°22	11°13	13°32	S 11
S 12	5 58 54	29°31'31	15°59	11°51	28°19	1° 3	7° 3	2°17	5°15	5°52	12°33	7°57	8°19	11°20	13°38	S 12
M13	6 2 50	0°32'42	29° 2	11°D46	29°34	1°18	6°58	2°13	5°19	5°51	12°34	7°56	8°16	11°27	13°44	M13
T14	6 6 47	1°33'54	12°27	11°50	0°50	1°33	6°53	2° 9	5°22	5°49	12°34	7°55	8°13	11°34	13°49	T14
W15	6 10 43	2°35'06	26°12	12° 3	2° 5	1°48	6°48	2° 5	5°25	5°48	12°35	7°55	8°10	11°40	13°55	W15
T16	6 14 40	3°36'18	10°316	12°25	3°21	2° 4	6°42	2° 1	5°29	5°46	12°36	7°D54	8° 6	11°47	14° 0	T16
F17	6 18 36	4°37'30	24°33	12°53	4°36	2°21	6°36	1°57	5°32	5°45	12°36	7°55	8° 3	11°54	14° 6	F17
S18	6 22 33	5°38'42	8°59	13°28	5°52	2°38	6°30	1°53	5°36	5°43	12°37	7°55	8° 0	12° 0	14°12	S18
S19	6 26 30	6°39'54	23°28	14° 8	7° 7	2°56	6°24	1°49	5°39	5°42	12°38	7°55	7°57	12° 7	14°17	S19
M20	6 30 26	7°41'05	7°H56	14°54	8°23	3°14	6°18	1°45	5°42	5°41	12°38	7°R55	7°54	12°14	14°23	M20
T21	6 34 23	8°42'16	22°18	15°44	9°38	3°32	6°12	1°40	5°45	5°39	12°39	7°55	7°51	12°20	14°28	T21
W22	6 38 19	9°43'26	6°V31	16°39	10°54	3°51	6° 5	1°36	5°49	5°38	12°40	7°D55	7°47	12°27	14°34	W22
T23	6 42 16	10°44'36	20°32	17°37	12° 9	4°11	5°59	1°32	5°52	5°37	12°41	7°55	7°44	12°34	14°40	T23
F24	6 46 12	11°45'46	4°B20	18°38	13°25	4°30	5°52	1°27	5°55	5°35	12°42	7°55	7°41	12°41	14°45	F24
S25	6 50 9	12°46'55	17°55	19°42	14°40	4°51	5°45	1°23	5°58	5°34	12°43	7°56	7°38	12°47	14°51	S25
S26	6 54 5	13°48'04	1°II17	20°49	15°56	5°11	5°38	1°18	6° 1	5°33	12°44	7°56	7°35	12°54	14°57	S26
M27	6 58 2	14°49'12	14°25	21°58	17°11	5°32	5°31	1°14	6° 4	5°31	12°45	7°57	7°32	13° 1	15° 2	M27
T28	7 1 59	15°50'20	27°21	23°10	18°26	5°54	5°24	1° 9	6° 7	5°30	12°45	7°57	7°28	13° 7	15° 8	T28
W29	7 5 55	16°51'27	10°5	24°23	19°42	6°15	5°17	1° 4	6°10	5°29	12°46	7°R58	7°25	13°14	15°14	W29
T30	7 9 52	17°52'34	22°35	25°38	20°57	6°38	5°10	1° 0	6°13	5°28	12°47	7°57	7°22	13°21	15°19	T30
F31	7 13 48	18°53'40	4°254	26°54	22°313	7°8 0	5°2	0°255	6°16	5°II27	12°H48	7°356	7°319	13°M28	15°325	F31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	22s59	24n 4	0n35	21s55	1n22	22s30	0n 5	12n 0	0n54	18n57	0n37	19n58	0n25	21s 1	0n 6	19n47	1s38	20s34	14s51	23s16	23s12	3n37	16s32	6n23	16s32	6n23	
T 2	23 4	22 8	0s35	21 31	1 41	22 41	0 3	12 4	0 55	18 58	0 37	19 59	0 25	21 1	0 6	19 47	1 38	20 33	14 51	23 16	23 12	3 34	16 32	6 23	16 32	6 23	
F 3	23 9	19 10	1 42	21 8	1 59	22 51	0 1	12 9	0 57	18 59	0 37	19 59	0 25	21 2	0 6	19 47	1 38	20 33	14 51	23 16	23 12	3 31	16 31	6 23	16 31	6 23	
S 4	23 13	15 24	2 44	20 45	2 15	23 0	0s 2	12 13	0 58	19 0	0 37	20 0	0 25	21 3	0 6	19 46	1 38	20 33	14 50	23 15	23 12	3 28	16 31	6 23	16 31	6 23	
S 5	23 17	11 5	3 37	20 25	2 29	23 9	0 4	12 18	1 0	19 2	0 38	20 1	0 25	21 3	0 6	19 46	1 38	20 32	14 50	23 15	23 13	3 25	16 31	6 23	16 31	6 23	
M 6	23 20	6 23	4 20	20 6	2 40	23 17	0 7	12 23	1 1	19 3	0 38	20 2	0 25	21 4	0 6	19 46	1 38	20 32	14 50	23 15	23 13	3 23	16 30	6 23	16 30	6 23	
T 7	23 23	1 30	4 51	19 50	2 49	23 24	0 9	12 29	1 3	19 4	0 38	20 3	0 25	21 5	0 6	19 46	1 37	20 31	14 49	23 15	23 13	3 20	16 30	6 22	16 30	6 22	
W 8	23 25	3s27	5 11	19 36	2 56	23 31	0 11	12 34	1 4	19 5	0 38	20 4	0 26	21 5	0 6	19 45	1 37	20 31	14 49	23 15	23 13	3 17	16 29	6 22	16 29	6 22	
T 9	23 27	8 18	5 17	19 26	3 1	23 37	0 14	12 40	1 6	19 7	0 38	20 5	0 26	21 6	0 6	19 45	1 37	20 30	14 49	23 15	23 13	3 14	16 29	6 22	16 29	6 22	
F 10	23 28	12 56	5 9	19 20	3 3	23 42	0 16	12 45	1 7	19 8	0 39	20 6	0 26	21 7	0 6	19 45	1 37	20 30	14 48	23 15	23 14	3 11	16 29	6 22	16 29	6 22	
S 11	23 29	17 7	4 46	19 16	3 3	23 46	0 18	12 51	1 8	19 9	0 39	20 6	0 26	21 7	0 6	19 45	1 37	20 29	14 48	23 15	23 14	3 8	16 28	6 22	16 28	6 22	
S 12	23 30	20 39	4 10	19 15	3 2	23 50	0 21	12 57	1 9	19 11	0 39	20 7	0 26	21 8	0 6	19 44	1 37	20 29	14 48	23 15	23 14	3 5	16 28	6 22	16 28	6 22	
M13	23 30	23 14	3 19	19 17	2 59	23 53	0 23	13 3	1 11	19 12	0 39	20 8	0 26	21 8	0 6	19 44	1 37	20 28	14 48	23 15	23 14	3 2	16 27	6 22	16 27	6 22	
T14	23 29	24 36	2 17	19 22	2 55	23 55	0 25	13 10	1 12	19 14	0 39	20 9	0 26	21 9	0 6	19 44	1 37	20 28	14 47	23 16	23 14	2 59	16 27	6 22	16 27	6 22	
W15	23 28	24 31	1 4	19 29	2 50	23 56	0 28	13 16	1 13	19 16	0 40	20 10	0 27	21 10	0 6	19 44	1 37	20 27	14 47	23 16	23 15	2 56	16 26	6 22	16 26	6 22	
T16	23 27	22 53	0n13	19 37	2 44	23 57	0 30	13 23	1 14	19 17	0 40	20 11	0 27	21 10	0 6	19 43	1 37	20 26	14 47	23 16	23 15	2 54	16 26	6 22	16 26	6 22	
F17	23 25	19 46	1 31	19 48	2 37	23 57	0 32	13 30	1 15	19 19	0 40	20 12	0 27	21 11	0 6	19 43	1 37	20 26	14 46	23 16	23 15	2 51	16 25	6 22	16 25	6 22	
S18	23 23	15 25	2 44	19 59	2 30	23 56	0 34	13 36	1 16	19 20	0 40	20 14	0 27	21 11	0 6	19 43	1 37	20 25	14 46	23 16	23 15	2 48	16 25	6 22	16 25	6 22	
S 19	23 20	10 9	3 47	20 12	2 22	23 55	0 37	13 43	1 17	19 22	0 40	20 15	0 27	21 12	0 6	19 43	1 37	20 25	14 46	23 16	23 15	2 45	16 24	6 22	16 24	6 22	
M20	23 16	4 21	4 35	20 25	2 14	23 52	0 39	13 51	1 18	19 24	0 41	20 16	0 27	21 13	0 6	19 43	1 37	20 24	14 45	23 16	23 16	2 42	16 24	6 21	16 24	6 21	
T21	23 13	1n37	5 6	20 39	2 6	23 49	0 41	13 58	1 19	19 26	0 41	20 17	0 27	21 13	0 6	19 42	1 37	20 24	14 45	23 16	23 16	2 39	16 23	6 21	16 23	6 21	
W22	23 8	7 27	5 17	20 53	1 57	23 46	0 43	14 5	1 20	19 27	0 41	20 18	0 27	21 14	0 6	19 42	1 37	20 23	14 45	23 16	23 16	2 36	16 23	6 21	16 23	6 21	
T23	23 4	12 49	5 10	21 7	1 48	23 41	0 45	14 12	1 21	19 29	0 41	20 19	0 28	21 14	0 6	19 42	1 37	20 23	14 45	23 16	23 16	2 33	16 22	6 21	16 22	6 21	
F24	22 58	17 27	4 44	21 22	1 39	23 36	0 47	14 20	1 22	19 31	0 41	20 20	0 28	21 15	0 6	19 42	1 37	20 22	14 44	23 16	23 16	2 30	16 21	6 21	16 21	6 21	
S25	22 53	21 6	4 3	21 36	1 30	23 30	0 49	14 28	1 22	19 33	0 42	20 21	0 28	21 15	0 6	19 42	1 37	20 21	14 44	23 15	23 17	2 27	16 21	6 21	16 21	6 21	
S26	22 47	23 34	3 10	21 49	1 21	23 23	0 51	14 35	1 23	19 35	0 42	20 22	0 28	21 16	0 6	19 41	1 37	20 21	14 44	23 15	23 17	2 25	16 20	6 21	16 20	6 21	
M27	22 40	24 41	2 7	22 3	1 12	23 16	0 53	14 43	1 24	19 37	0 42	20 23	0 28	21 17	0 6	19 41	1 37	20 20	14 44	23 15	23 17	2 22	16 20	6 21	16 20	6 21	
T28	22 33	24 27	0 59	22 16	1 3	23 8	0 55	14 51	1 25	19 39	0 42	20 25	0 28	21 17	0 6	19 41	1 37	20 19	14 43	23 15	23 17	2 19	16 19	6 22	16 19	6 22	
W29	22 26	22 55	0s12	22 28	0 55	22 59	0 57	14 59	1 25	19 41	0 42	20 26	0 28	21 18	0 6	19 41	1 37	20 19	14 43	23 15	23 17	2 16	16 18	6 22	16 18	6 22	
T30	22 18	20 17	1 20	22 40	0 46	22 49	0 58	15 7	1 26	19 43	0 42	20 27	0 28	21 18	0 6	19 41	1 37	20 18	14 43	23 15	23 17	2 13	16 18	6 22	16 18	6 22	
F31	22s10	16n46	2s24	22s51	0n37	22s39	1s 0	15n15	1n27	19n44	0n43	20n28	0n29	21s19	0n 6	19n41	1s37	20s18	14s42	23s15	23s18	2n10	16s17	6n22	16s17	6n22	