



Astrodienst Ephemeris Tables for the year 1585

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 1585
geocentric

JANUARY 1585 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 41 55	10 ³⁸ 14	10 ³⁸ 46	26 ³⁴ 34	2 ¹³ 13	1 ¹⁶ 16	25 ⁴² 42	0 ³ 3	28 ³¹ 31	23 ⁴⁶ 46	6 ² 2	23 ¹⁸ 18	21 ³⁵ 35	27 ³ 3	17 ⁵¹ 51	T 1
W 2	6 45 52	11 ³⁹ 25	22 ³⁹ 39	28 ⁴ 4	3 ²⁸ 28	1 ¹⁶ 16	25 ⁴⁵ 45	0 ⁶ 6	28 ³³ 33	23 ⁴⁵ 45	6 ³ 3	23 ¹⁸ 18	21 ³¹ 31	27 ¹⁰ 10	17 ⁵² 52	W 2
T 3	6 49 48	12 ⁴⁰ 36	4 ³⁰ 30	29 ³⁶ 36	4 ⁴³ 43	1 ¹⁵ 15	25 ⁴⁷ 47	0 ⁹ 9	28 ³⁶ 36	23 ⁴³ 43	6 ³ 3	22 ⁵⁹ 59	21 ²⁸ 28	27 ¹⁶ 16	17 ⁵² 52	T 3
F 4	6 53 45	13 ⁴¹ 47	16 ²² 22	1 ³ 7	5 ⁵⁸ 58	1 ¹³ 13	25 ⁵⁰ 50	0 ¹³ 13	28 ³⁹ 39	23 ⁴¹ 41	6 ³ 3	22 ⁴⁸ 48	21 ²⁵ 25	27 ²³ 23	17 ⁵² 52	F 4
S 5	6 57 41	14 ⁴² 57	28 ¹⁵ 15	2 ³⁹ 39	7 ¹³ 13	1 ¹⁰ 10	25 ⁵³ 53	0 ¹⁶ 16	28 ⁴¹ 41	23 ⁴⁰ 40	6 ³ 3	22 ³⁹ 39	21 ²² 22	27 ³⁰ 30	17 ⁵³ 53	S 5
S 6	7 1 38	15 ⁴⁴ 07	10 ³⁸ 14	4 ¹¹ 11	8 ²⁷ 27	1 ⁷ 7	25 ⁵⁷ 57	0 ²⁰ 20	28 ⁴⁴ 44	23 ³⁸ 38	6 ⁴ 4	22 ³¹ 31	21 ¹⁹ 19	27 ³⁶ 36	17 ⁵³ 53	S 6
M 7	7 5 34	16 ⁴⁵ 16	22 ²¹ 21	5 ⁴⁴ 44	9 ⁴² 42	1 ³ 3	26 ⁰ 0	0 ²³ 23	28 ⁴⁷ 47	23 ³⁶ 36	6 ⁴ 4	22 ²⁵ 25	21 ¹⁶ 16	27 ⁴³ 43	17 ⁵⁴ 54	M 7
T 8	7 9 31	17 ⁴⁶ 24	4 ³⁰ 30	7 ¹⁸ 18	10 ⁵⁷ 57	0 ⁵⁸ 58	26 ⁴ 4	0 ²⁷ 27	28 ⁵⁰ 50	23 ³⁴ 34	6 ⁵ 5	22 ²² 22	21 ¹² 12	27 ⁵⁰ 50	17 ⁵⁴ 54	T 8
W 9	7 13 27	18 ⁴⁷ 32	17 ¹⁵ 15	8 ⁵² 52	12 ¹² 12	0 ⁵² 52	26 ⁸ 8	0 ³¹ 31	28 ⁵² 52	23 ³³ 33	6 ⁵ 5	22 ^{D21} 21	21 ⁹ 9	27 ⁵⁷ 57	17 ⁵⁵ 55	W 9
T 10	7 17 24	19 ⁴⁸ 39	0 ⁸ 11	10 ²⁶ 26	13 ²⁷ 27	0 ⁴⁶ 46	26 ¹² 12	0 ³⁵ 35	28 ⁵⁵ 55	23 ³¹ 31	6 ⁶ 6	22 ²² 22	21 ⁶ 6	28 ³ 3	17 ⁵⁶ 56	T 10
F 11	7 21 21	20 ⁴⁹ 45	13 ³¹ 31	12 ¹ 1	14 ⁴¹ 41	0 ³⁸ 38	26 ¹⁶ 16	0 ³⁹ 39	28 ⁵⁸ 58	23 ²⁹ 29	6 ⁶ 6	22 ²² 22	21 ³ 3	28 ¹⁰ 10	17 ⁵⁶ 56	F 11
S 12	7 25 17	21 ⁵⁰ 50	27 ¹⁹ 19	13 ³⁶ 36	15 ⁵⁶ 56	0 ³⁰ 30	26 ²⁰ 20	0 ⁴³ 43	29 ¹ 1	23 ²⁸ 28	6 ⁷ 7	22 ^{R23} 23	21 ⁰ 0	28 ¹⁷ 17	17 ⁵⁷ 57	S 12
S 13	7 29 14	22 ⁵¹ 55	11 ³⁷ 37	15 ¹² 12	17 ¹¹ 11	0 ²¹ 21	26 ²⁵ 25	0 ⁴⁷ 47	29 ⁴ 4	23 ²⁶ 26	6 ⁷ 7	22 ²¹ 21	20 ⁵⁷ 57	28 ²³ 23	17 ⁵⁸ 58	S 13
M14	7 33 10	23 ⁵² 59	26 ²¹ 21	16 ⁴⁸ 48	18 ²⁵ 25	0 ¹¹ 11	26 ³⁰ 30	0 ⁵² 52	29 ⁷ 7	23 ²⁴ 24	6 ⁸ 8	22 ¹⁷ 17	20 ⁵³ 53	28 ³⁰ 30	17 ⁵⁹ 59	M14
T 15	7 37 7	24 ⁵⁴ 02	11 ³⁸ 28	18 ²⁵ 25	19 ⁴⁰ 40	0 ¹ 1	26 ³⁵ 35	0 ⁵⁶ 56	29 ¹⁰ 10	23 ²³ 23	6 ⁸ 8	22 ¹⁰ 10	20 ⁵⁰ 50	28 ³⁷ 37	18 ⁰ 0	T 15
W16	7 41 3	25 ⁵⁵ 04	26 ⁴⁷ 47	20 ³ 3	20 ⁵⁵ 55	29 ⁵⁰ 50	26 ⁴⁰ 40	1 ⁰ 0	29 ¹³ 13	23 ²¹ 21	6 ⁹ 9	22 ² 2	20 ⁴⁷ 47	28 ⁴⁴ 44	18 ¹ 1	W16
T 17	7 45 0	26 ⁵⁶ 05	12 ⁹ 9	21 ⁴¹ 41	22 ⁹ 9	29 ³⁷ 37	26 ⁴⁵ 45	1 ⁵ 5	29 ¹⁶ 16	23 ¹⁹ 19	6 ⁹ 9	21 ⁵² 52	20 ⁴⁴ 44	28 ⁵⁰ 50	18 ² 2	T 17
F 18	7 48 57	27 ⁵⁷ 06	27 ²⁰ 20	23 ²⁰ 20	23 ²⁴ 24	29 ²⁵ 25	26 ⁵¹ 51	1 ¹⁰ 10	29 ¹⁹ 19	23 ¹⁸ 18	6 ¹⁰ 10	21 ⁴¹ 41	20 ⁴¹ 41	28 ⁵⁷ 57	18 ³ 3	F 18
S 19	7 52 53	28 ⁵⁸ 06	12 ¹² 12	24 ⁵⁹ 59	24 ³⁸ 38	29 ¹¹ 11	26 ⁵⁶ 56	1 ¹⁴ 14	29 ²² 22	23 ¹⁶ 16	6 ¹¹ 11	21 ³³ 33	20 ³⁷ 37	29 ⁴ 4	18 ⁵ 5	S 19
S 20	7 56 50	29 ⁵⁹ 05	26 ³⁷ 37	26 ³⁹ 39	25 ⁵³ 53	28 ⁵⁷ 57	27 ² 2	1 ¹⁹ 19	29 ²⁵ 25	23 ¹⁴ 14	6 ¹¹ 11	21 ²⁶ 26	20 ³⁴ 34	29 ¹⁰ 10	18 ⁶ 6	S 20
M21	8 0 46	1 ³⁸ 04	10 ³² 32	28 ²⁰ 20	27 ⁷ 7	28 ⁴¹ 41	27 ⁸ 8	1 ²⁴ 24	29 ²⁸ 28	23 ¹³ 13	6 ¹² 12	21 ²² 22	20 ³¹ 31	29 ¹⁷ 17	18 ⁷ 7	M21
T 22	8 4 43	2 ¹ 02	23 ⁵⁷ 57	0 ³⁸ 38	28 ²¹ 21	28 ²⁶ 26	27 ¹⁴ 14	1 ²⁹ 29	29 ³¹ 31	23 ¹¹ 11	6 ¹³ 13	21 ²⁰ 20	20 ²⁸ 28	29 ²⁴ 24	18 ⁹ 9	T 22
W23	8 8 39	3 ¹ 59	6 ¹⁸ 56	1 ⁴³ 43	29 ³⁶ 36	28 ⁹ 9	27 ²¹ 21	1 ³⁴ 34	29 ³⁵ 35	23 ⁹ 9	6 ¹⁴ 14	21 ^{D20} 20	20 ²⁵ 25	29 ³¹ 31	18 ¹⁰ 10	W23
T 24	8 12 36	4 ² 56	19 ³³ 33	3 ²⁶ 26	0 ³⁸ 38	27 ⁵² 52	27 ²⁷ 27	1 ³⁹ 39	29 ³⁸ 38	23 ⁷ 7	6 ¹⁴ 14	21 ^{R20} 20	20 ²² 22	29 ³⁷ 37	18 ¹² 12	T 24
F 25	8 16 32	5 ³ 52	1 ³¹ 31	5 ⁹ 9	2 ⁴ 4	27 ³⁴ 34	27 ³⁴ 34	1 ⁴⁴ 44	29 ⁴¹ 41	23 ⁶ 6	6 ¹⁵ 15	21 ²⁰ 20	20 ¹⁸ 18	29 ⁴⁴ 44	18 ¹³ 13	F 25
S 26	8 20 29	6 ⁴ 47	13 ⁵⁷ 57	6 ⁵³ 53	3 ¹⁹ 19	27 ¹⁵ 15	27 ⁴¹ 41	1 ⁵⁰ 50	29 ⁴⁴ 44	23 ⁴ 4	6 ¹⁶ 16	21 ¹⁷ 17	20 ¹⁵ 15	29 ⁵¹ 51	18 ¹⁵ 15	S 26
S 27	8 24 26	7 ⁵ 42	25 ⁵⁵ 55	8 ³⁸ 38	4 ³³ 33	26 ⁵⁶ 56	27 ⁴⁸ 48	1 ⁵⁵ 55	29 ⁴⁸ 48	23 ³ 3	6 ¹⁷ 17	21 ¹³ 13	20 ¹² 12	29 ⁵⁷ 57	18 ¹⁶ 16	S 27
M28	8 28 22	8 ⁶ 35	7 ³⁸ 38	10 ²³ 23	5 ⁴⁷ 47	26 ³⁶ 36	27 ⁵⁵ 55	2 ⁰ 0	29 ⁵¹ 51	23 ¹ 1	6 ¹⁸ 18	21 ⁵ 5	20 ⁹ 9	0 ³⁸ 38	18 ¹⁸ 18	M28
T 29	8 32 19	9 ⁷ 28	19 ³⁸ 38	12 ⁹ 9	7 ¹ 1	26 ¹⁶ 16	28 ² 2	2 ⁶ 6	29 ⁵⁴ 54	22 ⁵⁹ 59	6 ¹⁸ 18	20 ⁵⁴ 54	20 ⁶ 6	0 ¹¹ 11	18 ²⁰ 20	T 29
W30	8 36 15	10 ⁸ 19	1 ³⁸ 29	13 ⁵⁶ 56	8 ¹⁶ 16	25 ⁵⁵ 55	28 ¹⁰ 10	2 ¹¹ 11	29 ⁵⁷ 57	22 ⁵⁸ 58	6 ¹⁹ 19	20 ⁴⁰ 40	20 ³ 3	0 ¹⁸ 18	18 ²² 22	W30
T 31	8 40 12	11 ⁸ 09	13 ³⁸ 22	15 ³⁸ 43	9 ³⁸ 30	25 ⁵⁰ 34	28 ¹⁸ 18	2 ¹⁷ 17	0 ³⁸ 38	22 ⁵⁶ 56	6 ²⁰ 20	20 ¹⁸ 18	19 ⁵⁹ 59	0 ³⁸ 38	18 ²⁴ 24	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	23s 4	19s17	3n47	23s57	0s30	21s14	1s34	14n22	3n33	8n49	1s14	2s11	2s24	12s42	0s44	20n57	0s27	13s11	17s 0	18s38	18s12	16s12	7n35	0n36					
W 2	22 59	17 14	4 24	24 5	0 37	20 57	1 35	14 24	3 35	8 50	1 13	2 9	2 24	12 41	0 44	20 58	0 27	13 11	17 0	18 36	18 11	16 10	7 35	0 36					
T 3	22 53	14 28	4 50	24 13	0 43	20 40	1 35	14 26	3 37	8 51	1 13	2 8	2 23	12 40	0 44	20 58	0 27	13 10	16 59	18 33	18 10	16 9	7 35	0 36					
F 4	22 47	11 8	5 4	24 19	0 50	20 22	1 36	14 29	3 40	8 53	1 13	2 6	2 23	12 39	0 44	20 58	0 27	13 10	16 59	18 31	18 9	16 7	7 35	0 36					
S 5	22 41	7 20	5 4	24 24	0 56	20 4	1 36	14 32	3 42	8 54	1 12	2 5	2 23	12 38	0 44	20 58	0 27	13 9	16 59	18 28	18 9	16 5	7 35	0 36					
S 6	22 34	3 15	4 52	24 27	1 2	19 45	1 37	14 35	3 44	8 55	1 12	2 3	2 23	12 37	0 44	20 59	0 27	13 9	16 58	18 26	18 8	16 4	7 35	0 36					
M 7	22 26	1n 2	4 26	24 29	1 7	19 25	1 37	14 39	3 46	8 57	1 12	2 1	2 22	12 36	0 44	20 59	0 27	13 8	16 58	18 25	18 7	16 2	7 35	0 36					
T 8	22 18	5 20	3 47	24 30	1 13	19 5	1 37	14 43	3 48	8 59	1 12	2 0	2 22	12 35	0 44	20 59	0 27	13 8	16 58	18 24	18 6	16 0	7 35	0 36					
W 9	22 10	9 30	2 57	24 30	1 18	18 44	1 38	14 47	3 51	9 0	1 11	1 58	2 22	12 34	0 44	21 0	0 27	13 7	16 57	18 24	18 5	15 59	7 35	0 36					
T 10	22 2	13 22	1 56	24 28	1 23	18 23	1 38	14 51	3 53	9 2	1 11	1 56	2 22	12 33	0 44	21 0	0 27	13 7	16 57	18 24	18 4	15 57	7 36	0 35					
F 11	21 52	16 41	0 47	24 25	1 28	18 1	1 38	14 56	3 55	9 4	1 11	1 54	2 22	12 32	0 44	21 0	0 27	13 6	16 57	18 24	18 4	15 55	7 36	0 35					
S 12	21 43	19 11	0s26	24 20	1 33	17 39	1 38	15 1	3 57	9 6	1 10	1 52	2 21	12 31	0 44	21 0	0 27	13 6	16 56	18 24	18 3	15 54	7 36	0 35					
S 13	21 33	20 34	1 41	24 14	1 37	17 16	1 38	15 6	3 59	9 8	1 10	1 51	2 21	12 30	0 44	21 1	0 27	13 5	16 56	18 24	18 2	15 52	7 36	0 35					
M14	21 23	20 36	2 51	24 6	1 41	16 53	1 37	15 11	4 1	9 10	1 10	1 49	2 21	12 29	0 44	21 1	0 27	13 5	16 56	18 23	18 1	15 51	7 36	0 35					
T 15	21 12	19 10	3 50	23 57	1 45	16 29	1 37	15 17	4 3	9 12	1 9	1 47	2 21	12 28	0 44	21 1	0 27	13 4	16 55	18 21	18 0	15 49	7 37	0 35					
W16	21 1	16 21	4 34	23 47	1 48	16 5	1 37	15 23	4 5	9 14	1 9	1 45	2 21	12 27	0 44	21 2	0 27	13 4	16 55	18 19	17 59	15 47	7 37	0 35					
T 17	20 49	12 24	4 59	23 35	1 52	15 41	1 36	15 29	4 7	9 16	1 9	1 43	2 20	12 26	0 44	21 2	0 27	13 3	16 55	18 16	17 58	15 46	7 37	0 35					
F 18	20 37	7 42	5 1	23 21	1 54	15 16	1 36	15 35	4 9	9 18	1 9	1 41	2 20	12 25	0 44	21 2	0 27	13 3	16 54	18 14	17 58	15 44	7 38	0 34					
S 19	20 25	2 38	4 44	23 6	1 57	14 50	1 35	15 42	4 11	9 21	1 8	1 39	2 20	12 24	0 44	21 3	0 27	13 2	16 54	18 11	17 57	15 42	7 38	0 34					
S 20	20 12	2s27	4 8	22 49	1 59	14 24	1 35	15 49	4 13	9 23	1 8	1 37	2 20	12 23	0 44	21 3	0 27	13 1	16 53	18 10	17 56	15 41	7 38	0 34					
M21	19 59	7 13	3 19	22 31	2 1	13 58	1 34	15 56	4 14	9 25	1 8	1 35	2 20	12 22	0 44	21 3	0 27	13 1	16 53	18 9	17 55	15 39	7 39	0 34					
T 22	19 45	11 29	2 20	22 11	2 2	13 32	1 33	16 3	4 16	9 28	1 7	1 32	2 19	12 21	0 44	21 3	0 27	13 0	16 53	18 8	17 54	15 37	7 39	0 34					
W23	19 31	15 3	1 16	21 50	2 3	13 5	1 33	16 10	4 18	9 30	1 7	1 30	2 19	12 19	0 44	21 4	0 27	13 0	16 53	18 8	17 53	15 36	7 40	0 34					
T 24	19 17	17 49	0 10	21 27	2 4	12 38	1 32	16 18	4 19	9 33	1 7	1 28	2 19	12 18	0 44	21 4	0 27	12 59	16 52	18 8	17 53	15 34	7 40	0 34					
F 25	19 3	19 40	0n56	21 2	2 4	12 10	1 31	16 25	4 21	9 36	1 7	1 26	2 19	12 17	0 43	21 4	0 27	12 58	16 52	18 8	17 52	15 32	7 41	0 34					
S 26	18 48	20 35	1 57	20 36	2 4	11 42	1 30	16 33	4 22	9 38	1 6	1 24	2 19	12 16	0 43	21 5	0 27	12 58	16 52	18 7	17 51	15 31	7 41	0 34					
S 27	18 32	20 34	2 52	20 8	2 4	11 14	1 28	16 41	4 24	9 41	1 6	1 21	2 19	12 15	0 43	21 5	0 27	12 57	16 51	18 6	17 50	15 29	7 42	0 33					
M28	18 17	19 37	3 39	19 38	2 3	10 46	1 27	16 49	4 25	9 44	1 6	1 19	2 18	12 14	0 43	21 5	0 27	12 57	16 51	18 4	17 49	15 27	7 42	0 33					
T 29	18 1	17 49	4 17	19 7	2 1	10 17	1 26	16 57	4 26	9 47	1 5	1 17	2 18	12 13	0 43	21 5	0 27	12 56	16 51	18 1	17 48	15 26	7 43	0 33					
W30	17 45	15 16	4 43	18 35	1 59	9 48	1 24	17 5	4 27	9 50	1 5	1 14	2 18	12 11	0 43	21 6	0 27	12 55	16 50	17 58	17 47	15 24	7 44	0 33					
T 31	17s28	12s 6	4n57	18s 1	1s56	9s19	1s23	17n14	4n28	9n53	1s 5	1s12	2s18	12s10	0s43	21n 6	0s27	12s55	16s50	17s54	17s47	15s22	7n44	0n33					

ASTRODIENST EPHEMERIS for the year 1585

geocentric

FEBRUARY 1585 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8 44 8	12 ²⁸ 9'58	25 ²⁸ 18	17 ²⁸ 31	10 ²⁸ 44	25°R12	28°Y25	2°Y23	0°H 4	22°R55	6°Y21	20°R11	19°M56	0°231	18°Y26	F 1
S 2	8 48 5	13°10'45	7°H 17	19°19	11°58	24°Ω50	28°33	2°28	0° 7	22°553	6°22	19°M57	19°53	0°38	18°28	S 2
S 3	8 52 1	14°11'31	19°23	21° 7	13°12	24°27	28°41	2°34	0°11	22°51	6°23	19°45	19°50	0°44	18°30	S 3
M 4	8 55 58	15°12'16	1°Y36	22°56	14°26	24° 4	28°50	2°40	0°14	22°50	6°24	19°36	19°47	0°51	18°32	M 4
T 5	8 59 55	16°12'59	13°59	24°45	15°40	23°41	28°58	2°46	0°17	22°48	6°25	19°30	19°43	0°58	18°34	T 5
W 6	9 3 51	17°13'41	26°35	26°35	16°53	23°18	29° 6	2°52	0°21	22°47	6°26	19°26	19°40	1° 5	18°36	W 6
T 7	9 7 48	18°14'20	9°B 27	28°24	18° 7	22°54	29°15	2°58	0°24	22°45	6°27	19°25	19°37	1°11	18°38	T 7
F 8	9 11 44	19°14'58	22°40	0°H 12	19°21	22°30	29°24	3° 4	0°28	22°44	6°28	19°25	19°34	1°18	18°40	F 8
S 9	9 15 41	20°15'35	6°II 17	2° 0	20°35	22° 7	29°33	3°10	0°31	22°42	6°29	19°25	19°31	1°25	18°43	S 9
S 10	9 19 37	21°16'09	20°20	3°47	21°48	21°43	29°42	3°16	0°34	22°41	6°30	19°23	19°28	1°31	18°45	S 10
M 11	9 23 34	22°16'42	4°B 49	5°33	23° 2	21°19	29°51	3°23	0°38	22°39	6°31	19°18	19°24	1°38	18°48	M 11
T 12	9 27 30	23°17'13	19°42	7°18	24°15	20°55	0°B 0	3°29	0°41	22°38	6°32	19°11	19°21	1°45	18°50	T 12
W 13	9 31 27	24°17'42	4°Ω 51	9° 0	25°29	20°31	0°10	3°35	0°45	22°37	6°33	19° 1	19°18	1°52	18°53	W 13
T 14	9 35 24	25°18'10	20° 7	10°40	26°42	20° 7	0°19	3°42	0°48	22°35	6°35	18°50	19°15	1°58	18°55	T 14
F 15	9 39 20	26°18'36	5°II 20	12°17	27°55	19°44	0°29	3°48	0°52	22°34	6°36	18°38	19°12	2° 5	18°58	F 15
S 16	9 43 17	27°19'00	20°17	13°51	29° 9	19°21	0°39	3°55	0°55	22°33	6°37	18°28	19° 9	2°12	19° 0	S 16
S 17	9 47 13	28°19'22	4°Ω 51	15°21	0°Y 22	18°58	0°49	4° 2	0°58	22°31	6°38	18°20	19° 5	2°19	19° 3	S 17
M 18	9 51 10	29°19'43	18°56	16°45	1°35	18°35	0°59	4° 8	1° 2	22°30	6°39	18°14	19° 2	2°25	19° 6	M 18
T 19	9 55 6	0°H 20'03	2°M 31	18° 5	2°48	18°12	1° 9	4°15	1° 5	22°29	6°40	18°11	18°59	2°32	19° 8	T 19
W 20	9 59 3	1°20'21	15°37	19°18	4° 1	17°50	1°19	4°22	1° 9	22°27	6°42	18°D 11	18°56	2°39	19°11	W 20
T 21	10 2 59	2°20'38	28°18	20°25	5°14	17°29	1°30	4°28	1°12	22°26	6°43	18°R 11	18°53	2°45	19°14	T 21
F 22	10 6 56	3°20'54	10°M 39	21°25	6°27	17° 7	1°40	4°35	1°16	22°25	6°44	18°11	18°49	2°52	19°17	F 22
S 23	10 10 52	4°21'08	22°45	22°17	7°40	16°47	1°51	4°42	1°19	22°24	6°45	18° 9	18°46	2°59	19°20	S 23
S 24	10 14 49	5°21'20	4°B 41	23° 1	8°53	16°26	2° 1	4°49	1°23	22°23	6°47	18° 5	18°43	3° 6	19°23	S 24
M 25	10 18 46	6°21'31	16°32	23°36	10° 6	16° 7	2°12	4°56	1°26	22°21	6°48	17°59	18°40	3°12	19°26	M 25
T 26	10 22 42	7°21'40	28°22	24° 2	11°18	15°48	2°23	5° 3	1°29	22°20	6°49	17°49	18°37	3°19	19°29	T 26
W 27	10 26 39	8°21'47	10°M 13	24°19	12°31	15°29	2°34	5°10	1°33	22°19	6°50	17°38	18°34	3°26	19°32	W 27
T 28	10 30 35	9°H 21'53	22°28 9	24°R 27	13°Y 43	15°Ω 11	2°B 45	5°Y 17	1°H 36	22°18	6°Y 52	17°M 25	18°M 30	3°22	19°Y 35	T 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	
F 1	17s11	8s26 4n58	17s25 1s53	8s49 1s22	17n22 4n29	9n56 1s 5	1s 9 2s18	12s 9 0s43	21n 6 0s27	12s54 16s50	17s50 17s46	15s20 7n45	0n33 0n33			
S 2	16 54	4 25 4 46	16 48 1 49	8 19 1 20	17 30 4 30	9 59 1 4	1 7 2 18	12 8 0 43	21 7 0 27	12 54 16 49	17 46 17 45	15 19 7 45	0 33 0 33			
S 3	16 36	0 13 4 21	16 9 1 45	7 49 1 18	17 39 4 30	10 2 1 4	1 5 2 17	12 7 0 43	21 7 0 26	12 53 16 49	17 43 17 44	15 17 7 46	0 33 0 33			
M 4	16 19	4n 3 3 44	15 29 1 40	7 19 1 17	17 47 4 31	10 5 1 4	1 2 2 17	12 5 0 43	21 7 0 26	12 52 16 49	17 40 17 43	15 15 7 47	0 33 0 33			
T 5	16 1	8 13 2 55	14 47 1 35	6 49 1 15	17 55 4 31	10 8 1 4	1 0 2 17	12 4 0 43	21 7 0 26	12 52 16 49	17 39 17 42	15 14 7 48	0 33 0 33			
W 6	15 42	12 6 1 58	14 4 1 28	6 18 1 13	18 3 4 32	10 12 1 3	0 57 2 17	12 3 0 43	21 8 0 26	12 51 16 48	17 38 17 41	15 12 7 48	0 32 0 32			
T 7	15 24	15 30 0 52	13 20 1 22	5 48 1 11	18 11 4 32	10 15 1 3	0 55 2 17	12 2 0 43	21 8 0 26	12 50 16 48	17 37 17 41	15 10 7 49	0 32 0 32			
F 8	15 5	18 12 0s17	12 35 1 14	5 17 1 9	18 19 4 32	10 18 1 3	0 52 2 17	12 1 0 43	21 8 0 26	12 50 16 48	17 37 17 40	15 9 7 50	0 32 0 32			
S 9	14 46	19 58 1 28	11 49 1 6	4 46 1 7	18 27 4 32	10 22 1 3	0 49 2 16	11 59 0 43	21 8 0 26	12 49 16 48	17 37 17 39	15 7 7 51	0 32 0 32			
S 10	14 27	20 33 2 35	11 1 0 57	4 15 1 5	18 35 4 32	10 25 1 2	0 47 2 16	11 58 0 43	21 9 0 26	12 48 16 47	17 37 17 38	15 5 7 51	0 32 0 32			
M 11	14 7	19 49 3 35	10 14 0 47	3 44 1 3	18 43 4 32	10 28 1 2	0 44 2 16	11 57 0 43	21 9 0 26	12 48 16 47	17 35 17 37	15 3 7 52	0 32 0 32			
T 12	13 47	17 43 4 22	9 25 0 37	3 13 1 0	18 50 4 32	10 32 1 2	0 42 2 16	11 56 0 43	21 9 0 26	12 47 16 47	17 33 17 36	15 2 7 53	0 32 0 32			
W 13	13 27	14 23 4 51	8 37 0 26	2 41 0 58	18 58 4 31	10 35 1 2	0 39 2 16	11 55 0 43	21 10 0 26	12 46 16 47	17 31 17 35	15 0 7 54	0 32 0 32			
T 14	13 7	10 3 5 0	7 48 0 14	2 10 0 56	19 5 4 31	10 39 1 1	0 36 2 16	11 53 0 43	21 10 0 26	12 46 16 46	17 28 17 35	14 58 7 55	0 32 0 32			
F 15	12 46	5 7 4 48	7 0 0 2	1 38 0 53	19 12 4 30	10 43 1 1	0 34 2 16	11 52 0 43	21 10 0 26	12 45 16 46	17 25 17 34	14 57 7 56	0 31 0 31			
S 16	12 26	0s 4 4 16	6 12 0n11	1 7 0 51	19 19 4 30	10 46 1 1	0 31 2 16	11 51 0 43	21 10 0 26	12 45 16 46	17 22 17 33	14 55 7 57	0 31 0 31			
S 17	12 5	5 6 3 28	5 25 0 24	0 35 0 48	19 25 4 29	10 50 1 1	0 28 2 15	11 50 0 43	21 10 0 26	12 44 16 46	17 19 17 32	14 53 7 57	0 31 0 31			
M 18	11 44	9 43 2 28	4 39 0 38	0 4 0 46	19 32 4 28	10 54 1 1	0 25 2 15	11 48 0 43	21 11 0 26	12 43 16 45	17 18 17 31	14 51 7 58	0 31 0 31			
T 19	11 23	13 39 1 22	3 55 0 52	0n28 0 43	19 38 4 27	10 57 1 0	0 23 2 15	11 47 0 43	21 11 0 26	12 43 16 45	17 17 17 30	14 50 7 59	0 31 0 31			
W 20	11 1	16 46 0 14	3 13 1 7	0 59 0 40	19 44 4 26	11 1 0	0 20 2 15	11 46 0 43	21 11 0 26	12 42 16 45	17 17 17 29	14 48 8 0	0 31 0 31			
T 21	10 40	18 57 0n53	2 33 1 22	1 31 0 37	19 50 4 25	11 5 1 0	0 17 2 15	11 45 0 43	21 11 0 26	12 41 16 45	17 17 17 28	14 46 8 1	0 31 0 31			
F 22	10 18	20 11 1 56	1 56 1 36	2 2 0 35	19 55 4 23	11 9 1 0	0 14 2 15	11 43 0 43	21 12 0 26	12 41 16 45	17 17 17 28	14 44 8 2	0 31 0 31			
S 23	9 56	20 26 2 52	1 22 1 51	2 34 0 32	20 0 4 22	11 13 0 59	0 11 2 15	11 42 0 43	21 12 0 26	12 40 16 44	17 16 17 27	14 43 8 3	0 31 0 31			
S 24	9 34	19 45 3 40	0 51 2 5	3 5 0 29	20 5 4 21	11 17 0 59	0 9 2 15	11 41 0 43	21 12 0 26	12 39 16 44	17 15 17 26	14 41 8 4	0 31 0 31			
M 25	9 12	18 12 4 18	0 25 2 19	3 37 0 26	20 9 4 19	11 21 0 59	0 6 2 15	11 40 0 43	21 12 0 26	12 39 16 44	17 14 17 25	14 39 8 5	0 31 0 31			
T 26	8 50	15 53 4 45	0 2 2 33	4 8 0 23	20 14 4 17	11 24 0 59	0 3 2 15	11 39 0 43	21 12 0 26	12 38 16 44	17 11 17 24	14 38 8 6	0 30 0 30			
W 27	8 27	12 55 4 59	0n17 2 46	4 39 0 20	20 18 4 16	11 28 0 59	0 0 2 14	11 37 0 43	21 13 0 26	12 37 16 44	17 8 17 23	14 36 8 7	0 30 0 30			
T 28	8s 5	9s25 5n 0	0n30 2n58	5n10 0s17	20n21 4n14	11n32 0s58	0n 3 2s14	11s36 0s43	21n13 0s26	12s37 16s43	17s 4 17s22	14s34 8n 9	0n30 0n30			

Julian Day Number = 2300000.5, Delta T = 111.29 sec

Ecliptic obliquity = 23°29'30", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 18°56'59", Lahiri = 18°04'00"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1585

geocentric

MARCH 1585 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 34 32	10♌21'56	4♌11	24°R26	14°Y56	14°R54	2♌57	5°Y24	1♌40	22°R17	6°Y53	17°R12	18♌27	3♌39	19°Y38	F 1
S 2	10 38 28	11°21'58	16°21	24♌15	16° 8	14♌37	3° 8	5°31	1°43	22♌16	6°54	16♌59	18°24	3°46	19°41	S 2
S 3	10 42 25	12°21'58	28°38	23°56	17°20	14°22	3°19	5°38	1°47	22°15	6°56	16°49	18°21	3°53	19°44	S 3
M 4	10 46 21	13°21'56	11°Y 4	23°29	18°33	14° 6	3°31	5°45	1°50	22°14	6°57	16°41	18°18	3°59	19°47	M 4
T 5	10 50 18	14°21'52	23°40	22°55	19°45	13°52	3°42	5°52	1°53	22°13	6°58	16°36	18°14	4° 6	19°51	T 5
W 6	10 54 15	15°21'46	6♌27	22°13	20°57	13°38	3°54	6° 0	1°57	22°12	7° 0	16°33	18°11	4°13	19°54	W 6
T 7	10 58 11	16°21'37	19°28	21°27	22° 9	13°26	4° 6	6° 7	2° 0	22°12	7° 1	16°D33	18° 8	4°19	19°57	T 7
F 8	11 2 8	17°21'27	2♌45	20°36	23°21	13°13	4°18	6°14	2° 4	22°11	7° 3	16°33	18° 5	4°26	20° 1	F 8
S 9	11 6 4	18°21'14	16°19	19°41	24°32	13° 2	4°29	6°21	2° 7	22°10	7° 4	16°R34	18° 2	4°33	20° 4	S 9
S 10	11 10 1	19°20'59	0♌13	18°45	25°44	12°52	4°41	6°29	2°10	22° 9	7° 5	16°33	17°59	4°40	20° 7	S 10
M 11	11 13 57	20°20'42	14°27	17°48	26°56	12°42	4°54	6°36	2°14	22° 8	7° 7	16°31	17°55	4°46	20°11	M 11
T 12	11 17 54	21°20'22	28°59	16°52	28° 7	12°33	5° 6	6°44	2°17	22° 8	7° 8	16°26	17°52	4°53	20°14	T 12
W 13	11 21 50	22°20'00	13♌46	15°58	29°19	12°25	5°18	6°51	2°20	22° 7	7°10	16°20	17°49	5° 0	20°18	W 13
T 14	11 25 47	23°19'35	28°40	15° 6	0♌30	12°17	5°30	6°58	2°23	22° 6	7°11	16°12	17°46	5° 6	20°21	T 14
F 15	11 29 44	24°19'09	13♌34	14°18	1°41	12°11	5°43	7° 6	2°27	22° 6	7°12	16° 3	17°43	5°13	20°24	F 15
S 16	11 33 40	25°18'40	28°18	13°34	2°52	12° 5	5°55	7°13	2°30	22° 5	7°14	15°56	17°40	5°20	20°28	S 16
S 17	11 37 37	26°18'09	12♌45	12°55	4° 3	12° 0	6° 8	7°21	2°33	22° 5	7°15	15°50	17°36	5°27	20°32	S 17
M 18	11 41 33	27°17'37	26°49	12°21	5°14	11°56	6°20	7°28	2°36	22° 4	7°17	15°46	17°33	5°33	20°35	M 18
T 19	11 45 30	28°17'02	10♌26	11°54	6°25	11°52	6°33	7°36	2°40	22° 4	7°18	15°D44	17°30	5°40	20°39	T 19
W 20	11 49 26	29°16'26	23°37	11°32	7°36	11°49	6°45	7°43	2°43	22° 3	7°19	15°45	17°27	5°47	20°42	W 20
T 21	11 53 23	0°Y15'48	6♌24	11°16	8°46	11°47	6°58	7°51	2°46	22° 3	7°21	15°46	17°24	5°54	20°46	T 21
F 22	11 57 19	1°15'08	18°50	11° 6	9°57	11°46	7°11	7°58	2°49	22° 2	7°22	15°47	17°20	6° 0	20°50	F 22
S 23	12 1 16	2°14'27	1♌ 0	11°D 1	11° 7	11°D46	7°24	8° 6	2°52	22° 2	7°24	15°R48	17°17	6° 7	20°53	S 23
S 24	12 5 13	3°13'43	12°59	11° 3	12°17	11°46	7°37	8°13	2°55	22° 2	7°25	15°47	17°14	6°14	20°57	S 24
M 25	12 9 9	4°12'58	24°51	11°10	13°28	11°47	7°50	8°21	2°58	22° 1	7°27	15°45	17°11	6°20	21° 1	M 25
T 26	12 13 6	5°12'11	6♌41	11°22	14°38	11°48	8° 3	8°28	3° 2	22° 1	7°28	15°41	17° 8	6°27	21° 4	T 26
W 27	12 17 2	6°11'22	18°36	11°40	15°47	11°51	8°16	8°36	3° 5	22° 1	7°30	15°35	17° 5	6°34	21° 8	W 27
T 28	12 20 59	7°10'31	0♌36	12° 2	16°57	11°54	8°29	8°43	3° 8	22° 1	7°31	15°29	17° 1	6°41	21°12	T 28
F 29	12 24 55	8° 9'38	12°45	12°29	18° 7	11°58	8°43	8°51	3°11	22° 1	7°33	15°21	16°58	6°47	21°15	F 29
S 30	12 28 52	9° 8'43	25° 4	13° 0	19°16	12° 2	8°56	8°58	3°14	22° 0	7°34	15°15	16°55	6°54	21°19	S 30
S 31	12 32 48	10°Y 7'47	7°Y35	13♌36	20♌26	12♌ 7	9♌ 9	9°Y 6	3♌16	22♌ 0	7°Y35	15♌ 9	16♌52	7♌ 1	21°Y23	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
F 1	7s42	5s31	4n49	0n40	3n 8	5n41	0s13	20n25	4n12	11n36	0s58	0n 6	2s14	11s35	0s43	21n13	0s26	12s36	16s43	17s 0	17s21	14s32	8n10	0n30	
S 2	7 19	1 21	4 24	0 44	3 18	6 12	0 10	20 28	4 10	11 40	0 58	0 9	2 14	11 34	0 43	21 13	0 26	12 35	16 43	16 57	17 21	14 31	8 11	0 30	
S 3	6 56	2n54	3 46	0 44	3 26	6 43	0 7	20 31	4 8	11 45	0 58	0 11	2 14	11 32	0 43	21 13	0 26	12 35	16 43	16 54	17 20	14 29	8 12	0 30	
M 4	6 33	7 6	2 57	0 39	3 32	7 14	0 4	20 33	4 6	11 49	0 58	0 14	2 14	11 31	0 43	21 14	0 26	12 34	16 43	16 52	17 19	14 27	8 13	0 30	
T 5	6 10	11 3	1 59	0 29	3 36	7 44	0 0	20 36	4 4	11 53	0 57	0 17	2 14	11 30	0 43	21 14	0 26	12 33	16 43	16 50	17 18	14 25	8 14	0 30	
W 6	5 47	14 33	0 54	0 16	3 39	8 14	0n 3	20 38	4 2	11 57	0 57	0 20	2 14	11 29	0 43	21 14	0 26	12 33	16 43	16 49	17 17	14 24	8 15	0 30	
T 7	5 24	17 23	0s16	0s 2	3 40	8 44	0 6	20 39	4 0	12 1	0 57	0 23	2 14	11 28	0 43	21 14	0 26	12 32	16 42	16 49	17 16	14 22	8 16	0 30	
F 8	5 0	19 21	1 26	0 24	3 38	9 14	0 10	20 41	3 58	12 5	0 57	0 26	2 14	11 26	0 43	21 14	0 26	12 31	16 42	16 49	17 15	14 20	8 18	0 29	
S 9	4 37	20 16	2 32	0 48	3 35	9 44	0 13	20 42	3 56	12 9	0 57	0 29	2 14	11 25	0 43	21 14	0 26	12 31	16 42	16 50	17 14	14 18	8 19	0 29	
S 10	4 13	19 58	3 32	1 15	3 29	10 13	0 17	20 43	3 53	12 14	0 56	0 32	2 14	11 24	0 43	21 15	0 26	12 30	16 42	16 49	17 13	14 16	8 20	0 29	
M11	3 50	18 24	4 19	1 43	3 22	10 43	0 20	20 44	3 51	12 18	0 56	0 35	2 14	11 23	0 43	21 15	0 26	12 29	16 42	16 49	17 13	14 15	8 21	0 29	
T 12	3 26	15 39	4 52	2 14	3 13	11 12	0 24	20 44	3 49	12 22	0 56	0 38	2 14	11 22	0 43	21 15	0 26	12 29	16 42	16 47	17 12	14 13	8 22	0 29	
W13	3 3	11 51	5 5	2 44	3 3	11 40	0 27	20 44	3 47	12 26	0 56	0 41	2 14	11 20	0 43	21 15	0 26	12 28	16 42	16 45	17 11	14 11	8 24	0 29	
T 14	2 39	7 18	4 59	3 15	2 51	12 9	0 31	20 44	3 44	12 31	0 56	0 44	2 14	11 19	0 43	21 15	0 26	12 28	16 42	16 43	17 10	14 9	8 25	0 29	
F 15	2 16	2 18	4 32	3 45	2 39	12 37	0 34	20 44	3 42	12 35	0 56	0 47	2 14	11 18	0 44	21 15	0 26	12 27	16 42	16 41	17 9	14 8	8 26	0 29	
S 16	1 52	2s47	3 47	4 15	2 25	13 5	0 38	20 43	3 40	12 39	0 55	0 50	2 13	11 17	0 44	21 15	0 26	12 26	16 42	16 39	17 8	14 6	8 27	0 29	
S 17	1 28	7 37	2 48	4 43	2 10	13 33	0 41	20 42	3 37	12 43	0 55	0 53	2 13	11 16	0 44	21 15	0 26	12 26	16 42	16 37	17 7	14 4	8 29	0 29	
M18	1 5	11 55	1 40	5 10	1 55	14 0	0 45	20 41	3 35	12 48	0 55	0 56	2 13	11 15	0 44	21 16	0 26	12 25	16 41	16 36	17 6	14 2	8 30	0 29	
T 19	0 41	15 26	0 29	5 34	1 40	14 27	0 48	20 40	3 33	12 52	0 55	0 59	2 13	11 14	0 44	21 16	0 26	12 24	16 41	16 35	17 5	14 1	8 31	0 28	
W20	0 17	18 2	0n42	5 57	1 25	14 54	0 52	20 39	3 30	12 56	0 55	1 2	2 13	11 12	0 44	21 16	0 26	12 24	16 41	16 35	17 5	13 59	8 32	0 28	
T 21	0n 6	19 38	1 49	6 17	1 10	15 20	0 56	20 37	3 28	13 1	0 55	1 5	2 13	11 11	0 44	21 16	0 25	12 23	16 41	16 36	17 4	13 57	8 34	0 28	
F 22	0 30	20 13	2 49	6 35	0 54	15 46	0 59	20 35	3 25	13 5	0 54	1 8	2 13	11 10	0 44	21 16	0 25	12 23	16 41	16 36	17 3	13 55	8 35	0 28	
S 23	0 54	19 49	3 40	6 51	0 39	16 11	1 3	20 33	3 23	13 9	0 54	1 11	2 13	11 9	0 44	21 16	0 25	12 22	16 41	16 36	17 2	13 53	8 36	0 28	
S 24	1 17	18 32	4 21	7 4	0 25	16 37	1 6	20 30	3 21	13 14	0 54	1 14	2 13	11 8	0 44	21 16	0 25	12 21	16 41	16 36	17 1	13 52	8 38	0 28	
M25	1 41	16 27	4 49	7 14	0 10	17 1	1 10	20 28	3 18	13 18	0 54	1 17	2 13	11 7	0 44	21 16	0 25	12 21	16 41	16 35	17 0	13 50	8 39	0 28	
T 26	2 4	13 42	5 6	7 22	0s 4	17 26	1 13	20 25	3 16	13 22	0 54	1 19	2 13	11 6	0 44	21 16	0 25	12 20	16 41	16 34	16 59	13 48	8 40	0 28	
W27	2 28	10 23	5 9	7 28	0 17	17 50	1 17	20 22	3 14	13 27	0 54	1 22	2 13	11 5	0 44	21 16	0 25	12 20	16 41	16 33	16 58	13 46	8 42	0 28	
T 28	2 51	6 37	4 59	7 31	0 30	18 13	1 20	20 19	3 11	13 31	0 54	1 25	2 13	11 4	0 44	21 16	0 25	12 19	16 41	16 31	16 57	13 44	8 43	0 28	
F 29	3 15	2 33	4 35	7 32	0 42	18 36	1 24	20 16	3 9	13 35	0 53	1 28	2 13	11 3	0 44	21 16	0 25	12 19	16 41	16 29	16 56	13 43	8 44	0 28	
S 30	3 38	1n41	3 59	7 31	0 54	18 59	1 27	20 12	3 7	13 40	0 53	1 31	2 13	11 1	0 44	21 16	0 25	12 18	16 41	16 27	16 56	13 41	8 46	0 28	
S 31	4n 1	5n55	3n10	7s28	1s 5	19n21	1n31	20n 9	3n 4	13n44	0s53	1n34	2s13	11s 0	0s44	21n16	0s25	12s17	16s41	16s25	16s55	13s39	8n47	0n27	

ASTRODIENST EPHEMERIS for the year 1585

geocentric

MAY 1585 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	14 35 1	10 ⁸ 21'41	25 ⁸ 51	24 ^Υ 11	24 ^Π 54	19 ^Ω 19	16 ⁸ 19	12 ^Υ 54	4 [♐] 32	22 [♑] 14	8 ^Υ 18	14 [♒] 49	15 [♓] 13	10 [♈] 29	23 ^Υ 20	W 1
T 2	14 38 58	11°19'44	9 ^Π 37	26° 2	25°57	19°40	16°33	13° 1	4°33	22°15	8°20	14°49	15°10	10°36	23°24	T 2
F 3	14 42 55	12°17'45	23°35	27°55	27° 0	20° 2	16°47	13° 8	4°35	22°16	8°21	14°50	15° 7	10°43	23°28	F 3
S 4	14 46 51	13°15'44	7 [♈] 41	29°50	28° 3	20°23	17° 1	13°15	4°37	22°17	8°22	14°50	15° 4	10°49	23°31	S 4
S 5	14 50 48	14°13'42	21°53	1 ⁸ 46	29° 5	20°45	17°16	13°22	4°39	22°18	8°23	14°50	15° 1	10°56	23°35	S 5
M 6	14 54 44	15°11'37	6 [♒] 7	3°44	0 [♑] 7	21° 7	17°30	13°29	4°40	22°19	8°24	14°50	14°57	11° 3	23°39	M 6
T 7	14 58 41	16° 9'31	20°21	5°44	1° 9	21°30	17°44	13°36	4°42	22°20	8°26	14°50	14°54	11° 9	23°42	T 7
W 8	15 2 37	17° 7'23	4 [♐] 33	7°46	2°11	21°53	17°58	13°42	4°43	22°21	8°27	14°50	14°51	11°16	23°46	W 8
T 9	15 6 34	18° 5'13	18°39	9°50	3°12	22°16	18°12	13°49	4°45	22°22	8°28	14°50	14°48	11°23	23°49	T 9
F 10	15 10 30	19° 3'02	2 [♈] 39	11°55	4°13	22°40	18°27	13°56	4°46	22°23	8°29	14°51	14°45	11°30	23°53	F 10
S 11	15 14 27	20° 0'48	16°28	14° 1	5°13	23° 4	18°41	14° 2	4°48	22°24	8°30	14°51	14°42	11°36	23°56	S 11
S 12	15 18 24	20°58'33	0 [♒] 6	16° 9	6°13	23°28	18°55	14° 9	4°49	22°26	8°31	14°52	14°38	11°43	24° 0	S 12
M13	15 22 20	21°56'17	13°30	18°18	7°12	23°52	19° 9	14°16	4°51	22°27	8°33	14°R52	14°35	11°50	24° 3	M13
T 14	15 26 17	22°53'59	26°39	20°28	8°12	24°17	19°23	14°22	4°52	22°28	8°34	14°52	14°32	11°57	24° 7	T 14
W15	15 30 13	23°51'40	9 [♐] 33	22°39	9°10	24°42	19°37	14°28	4°53	22°30	8°35	14°51	14°29	12° 3	24°10	W15
T 16	15 34 10	24°49'20	22°11	24°50	10° 9	25° 7	19°52	14°35	4°54	22°31	8°36	14°50	14°26	12°10	24°14	T 16
F 17	15 38 6	25°46'58	4 [♈] 35	27° 2	11° 7	25°32	20° 6	14°41	4°56	22°32	8°37	14°49	14°22	12°17	24°17	F 17
S 18	15 42 3	26°44'36	16°47	29°13	12° 4	25°58	20°20	14°48	4°57	22°34	8°38	14°47	14°19	12°23	24°21	S 18
S 19	15 46 0	27°42'12	28°49	1 ^Π 25	13° 1	26°24	20°34	14°54	4°58	22°35	8°39	14°45	14°16	12°30	24°24	S 19
M20	15 49 56	28°39'47	10 [♈] 44	3°35	13°58	26°50	20°48	15° 0	4°59	22°37	8°40	14°44	14°13	12°37	24°27	M20
T 21	15 53 53	29°37'22	22°38	5°46	14°54	27°17	21° 2	15° 6	5° 0	22°38	8°41	14°43	14°10	12°44	24°30	T 21
W22	15 57 49	0 ^Π 34'55	4 [♐] 33	7°55	15°50	27°43	21°16	15°12	5° 1	22°40	8°42	14°D43	14° 7	12°50	24°34	W22
T 23	16 1 46	1°32'27	16°36	10° 2	16°45	28°10	21°30	15°18	5° 2	22°41	8°43	14°44	14° 3	12°57	24°37	T 23
F 24	16 5 42	2°29'59	28°49	12° 9	17°39	28°37	21°44	15°24	5° 2	22°43	8°44	14°45	14° 0	13° 4	24°40	F 24
S 25	16 9 39	3°27'30	11°Υ19	14°13	18°33	29° 5	21°58	15°30	5° 3	22°44	8°45	14°46	13°57	13°10	24°43	S 25
S 26	16 13 35	4°25'00	24° 7	16°16	19°27	29°32	22°12	15°36	5° 4	22°46	8°46	14°48	13°54	13°17	24°47	S 26
M27	16 17 32	5°22'29	7 [♈] 17	18°16	20°19	29°59	22°26	15°42	5° 5	22°47	8°47	14°49	13°51	13°24	24°50	M27
T 28	16 21 28	6°19'57	20°49	20°14	21°12	0 [♐] 28	22°40	15°48	5° 5	22°49	8°47	14°R49	13°48	13°31	24°53	T 28
W29	16 25 25	7°17'25	4 ^Π 42	22°10	22° 3	0°56	22°54	15°53	5° 6	22°51	8°48	14°48	13°44	13°37	24°56	W29
T 30	16 29 22	8°14'51	18°54	24° 4	22°54	1°24	23° 8	15°59	5° 6	22°52	8°49	14°46	13°41	13°44	24°59	T 30
F 31	16 33 18	9 ^Π 12'17	3 [♈] 19	25 ^Π 55	23 [♈] 44	1 [♐] 53	23 ⁸ 22	16 ^Υ 4	5 [♐] 7	22 [♑] 54	8 ^Υ 50	14 [♒] 43	13 [♓] 38	13 [♈] 51	25 ^Υ 2	F 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	14n58	18n17	1 s 1	7n32	2s 0	26n17	2n54	16n59	2n 1	15n58	0s50	3n 2	2s15	10s34	0s45	21n15	0s24	12s 4	16s44	16s19	16s26	12s43	9n29	0n25	
T 2	15 16	19 45	2 13	8 19	1 53	26 21	2 55	16 50	1 59	16 2	0 50	3 4	2 15	10 33	0 45	21 15	0 24	12 4	16 44	16 19	16 25	12 41	9 30	0 25	
F 3	15 34	20 2	3 19	9 6	1 46	26 24	2 57	16 42	1 58	16 6	0 50	3 7	2 16	10 33	0 45	21 15	0 24	12 3	16 45	16 19	16 24	12 39	9 31	0 25	
S 4	15 51	19 4	4 13	9 54	1 38	26 26	2 58	16 33	1 56	16 10	0 50	3 10	2 16	10 32	0 45	21 15	0 24	12 3	16 45	16 19	16 23	12 37	9 32	0 25	
S 5	16 9	16 54	4 52	10 42	1 30	26 28	2 59	16 25	1 54	16 14	0 49	3 12	2 16	10 31	0 45	21 15	0 24	12 3	16 45	16 19	16 22	12 35	9 34	0 25	
M 6	16 26	13 43	5 13	11 31	1 21	26 29	3 0	16 16	1 53	16 18	0 49	3 15	2 16	10 31	0 45	21 14	0 24	12 2	16 45	16 19	16 22	12 33	9 35	0 25	
T 7	16 43	9 44	5 16	12 20	1 12	26 30	3 1	16 7	1 51	16 22	0 49	3 17	2 16	10 30	0 45	21 14	0 24	12 2	16 46	16 19	16 21	12 31	9 36	0 25	
W 8	16 59	5 14	4 59	13 8	1 3	26 30	3 1	15 58	1 49	16 26	0 49	3 20	2 16	10 30	0 45	21 14	0 24	12 2	16 46	16 19	16 20	12 30	9 38	0 25	
T 9	17 15	0 27	4 24	13 57	0 53	26 29	3 2	15 49	1 48	16 30	0 49	3 22	2 16	10 29	0 45	21 14	0 24	12 2	16 46	16 19	16 19	12 28	9 39	0 25	
F 10	17 31	4s19	3 33	14 45	0 43	26 28	3 2	15 40	1 46	16 34	0 49	3 25	2 16	10 29	0 45	21 14	0 24	12 1	16 46	16 20	16 18	12 26	9 40	0 25	
S 11	17 47	8 49	2 31	15 33	0 33	26 26	3 3	15 30	1 45	16 38	0 49	3 27	2 17	10 28	0 45	21 14	0 24	12 1	16 46	16 20	16 17	12 24	9 41	0 24	
S 12	18 2	12 48	1 21	16 21	0 23	26 23	3 3	15 21	1 43	16 42	0 49	3 30	2 17	10 28	0 45	21 13	0 24	12 1	16 47	16 20	16 16	12 22	9 42	0 24	
M13	18 17	16 3	0 8	17 7	0 12	26 20	3 3	15 11	1 41	16 46	0 49	3 32	2 17	10 27	0 45	21 13	0 24	12 1	16 47	16 20	16 15	12 20	9 44	0 24	
T 14	18 32	18 24	1n 5	17 53	0 1	26 17	3 3	15 2	1 40	16 50	0 49	3 34	2 17	10 27	0 45	21 13	0 24	12 0	16 47	16 20	16 14	12 18	9 45	0 24	
W15	18 47	19 45	2 13	18 37	0n 9	26 12	3 2	14 52	1 38	16 54	0 49	3 37	2 17	10 26	0 45	21 13	0 24	12 0	16 47	16 20	16 13	12 17	9 46	0 24	
T 16	19 1	20 4	3 12	19 20	0 20	26 8	3 2	14 42	1 37	16 58	0 49	3 39	2 17	10 26	0 45	21 13	0 24	12 0	16 48	16 19	16 12	12 15	9 47	0 24	
F 17	19 15	19 23	4 2	20 1	0 30	26 2	3 1	14 32	1 35	17 1	0 49	3 41	2 17	10 26	0 45	21 12	0 24	12 0	16 48	16 19	16 11	12 13	9 49	0 24	
S 18	19 28	17 49	4 39	20 41	0 40	25 57	3 1	14 22	1 34	17 5	0 49	3 44	2 18	10 25	0 45	21 12	0 24	12 0	16 48	16 18	16 10	12 11	9 50	0 24	
S 19	19 41	15 29	5 4	21 18	0 50	25 50	3 0	14 12	1 32	17 9	0 49	3 46	2 18	10 25	0 45	21 12	0 24	12 0	16 48	16 18	16 9	12 9	9 51	0 24	
M20	19 54	12 31	5 15	21 53	0 59	25 43	2 59	14 1	1 31	17 13	0 48	3 48	2 18	10 25	0 45	21 12	0 24	11 59	16 49	16 18	16 8	12 7	9 52	0 24	
T 21	20 7	9 4	5 13	22 26	1 8	25 36	2 58	13 51	1 30	17 17	0 48	3 50	2 18	10 24	0 45	21 12	0 24	11 59	16 49	16 17	16 7	12 5	9 53	0 24	
W22	20 19	5 15	4 57	22 56	1 17	25 28	2 56	13 40	1 28	17 20	0 48	3 52	2 18	10 24	0 45	21 11	0 24	11 59	16 49	16 17	16 6	12 3	9 54	0 24	
T 23	20 31	1 11	4 28	23 24	1 25	25 20	2 55	13 30	1 27	17 24	0 48	3 55	2 18	10 24	0 46	21 11	0 24	11 59	16 50	16 18	16 6	12 2	9 55	0 24	
F 24	20 42	3n 0	3 47	23 49	1 32	25 11	2 53	13 19	1 25	17 28	0 48	3 57	2 19	10 23	0 46	21 11	0 24	11 59	16 50	16 18	16 5	12 0	9 57	0 24	
S 25	20 53	7 9	2 54	24 12	1 39	25 2	2 51	13 8	1 24	17 31	0 48	3 59	2 19	10 23	0 46	21 11	0 24	11 59	16 50	16 18	16 4	11 58	9 58	0 24	
S 26	21 4	11 6	1 52	24 31	1 45	24 52	2 49	12 57	1 23	17 35	0 48	4 1	2 19	10 23	0 46	21 10	0 24	11 59	16 50	16 19	16 3	11 56	9 59	0 24	
M27	21 15	14 37	0 41	24 48	1 50	24 42	2 47	12 46	1 21	17 39	0 48	4 3	2 19	10 23	0 46	21 10	0 24	11 59	16 51	16 19	16 2	11 54	10 0	0 23	
T 28	21 25	17 28	0s33	25 2	1 55	24 31	2 44	12 35	1 20	17 42	0 48	4 5	2 19	10 22	0 46	21 10	0 24	11 59	16 51	16 19	16 1	11 52	10 1	0 23	
W29	21 34	19 22	1 47	25 14	1 59	24 20	2 41	12 23	1 19	17 46	0 48	4 7	2 20	10 22	0 46	21 10	0 24	11 59	16 51	16 19	16 0	11 50	10 2	0 23	
T 30	21 44	20 6	2 57	25 23	2 47	24 9	2 39	12 12	1 17	17 49	0 48	4 9	2 20	10 22	0 46	21 9	0 24	11 59	16 52	16 18	15 59	11 48	10 3	0 23	
F 31	21n53	19n31	3s56	25n30	2n 4	23n57	2n35	12n 0	1n16	17n53	0s48	4n11	2s20	10s22	0s46	21n 9	0s24	11s59	16s52	16s17	15s58	11s46	10n 4	0n23	

ASTRODIENST EPHEMERIS for the year 1585
geocentric

JUNE 1585 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 37 15	10II 9'41	17☾53	27II44	24☾34	2♂22	23♂36	16♂10	5♂7	22☾56	8♂51	14°R39	13♂35	13☾58	25♂5	S 1
S 2	16 41 11	11° 7'05	2♂28	29°30	25°23	2°51	23°50	16°15	5° 8	22°57	8°52	14♂36	13°32	14° 4	25° 8	S 2
M 3	16 45 8	12° 4'27	16°59	1☾14	26°11	3°20	24° 4	16°21	5° 8	22°59	8°52	14°33	13°28	14°11	25°11	M 3
T 4	16 49 4	13° 1'49	1♂20	2°54	26°58	3°50	24°17	16°26	5° 8	23° 1	8°53	14°31	13°25	14°18	25°13	T 4
W 5	16 53 1	13°59'09	15°30	4°33	27°44	4°19	24°31	16°31	5° 9	23° 3	8°54	14°D31	13°22	14°24	25°16	W 5
T 6	16 56 58	14°56'28	29°26	6° 8	28°30	4°49	24°45	16°36	5° 9	23° 5	8°55	14°32	13°19	14°31	25°19	T 6
F 7	17 0 54	15°53'46	13☾7	7°41	29°14	5°19	24°59	16°41	5° 9	23° 6	8°55	14°33	13°16	14°38	25°22	F 7
S 8	17 4 51	16°51'03	26°34	9°12	29°58	5°49	25°12	16°46	5° 9	23° 8	8°56	14°34	13°13	14°45	25°24	S 8
S 9	17 8 47	17°48'19	9♂47	10°39	0♂41	6°19	25°26	16°51	5° 9	23°10	8°57	14°R35	13° 9	14°51	25°27	S 9
M10	17 12 44	18°45'35	22°47	12° 4	1°22	6°50	25°39	16°56	5°R 9	23°12	8°57	14°35	13° 6	14°58	25°30	M10
T 11	17 16 40	19°42'50	5♂36	13°26	2° 3	7°20	25°53	17° 1	5° 9	23°14	8°58	14°33	13° 3	15° 5	25°32	T 11
W12	17 20 37	20°40'04	18°12	14°45	2°43	7°51	26° 6	17° 6	5° 9	23°16	8°58	14°30	13° 0	15°12	25°35	W12
T 13	17 24 33	21°37'18	0☾38	16° 2	3°21	8°22	26°20	17°10	5° 9	23°18	8°59	14°25	12°57	15°18	25°37	T 13
F 14	17 28 30	22°34'31	12°53	17°15	3°58	8°53	26°33	17°15	5° 9	23°20	9° 0	14°18	12°54	15°25	25°40	F 14
S 15	17 32 27	23°31'44	24°59	18°26	4°34	9°24	26°47	17°19	5° 8	23°22	9° 0	14°12	12°50	15°32	25°42	S 15
S 16	17 36 23	24°28'57	6☾58	19°33	5° 9	9°56	27° 0	17°24	5° 8	23°24	9° 1	14° 5	12°47	15°38	25°45	S 16
M17	17 40 20	25°26'09	18°52	20°37	5°43	10°27	27°13	17°28	5° 8	23°26	9° 1	13°59	12°44	15°45	25°47	M17
T 18	17 44 16	26°23'21	0♂45	21°39	6°15	10°59	27°26	17°32	5° 7	23°28	9° 2	13°54	12°41	15°52	25°49	T 18
W19	17 48 13	27°20'33	12°39	22°37	6°45	11°31	27°40	17°36	5° 7	23°30	9° 2	13°51	12°38	15°59	25°51	W19
T 20	17 52 9	28°17'45	24°40	23°31	7°15	12° 3	27°53	17°41	5° 7	23°32	9° 2	13°D50	12°34	16° 5	25°54	T 20
F 21	17 56 6	29°14'58	6♂51	24°22	7°42	12°35	28° 6	17°45	5° 6	23°34	9° 3	13°50	12°31	16°12	25°56	F 21
S 22	18 0 2	0☾12'10	19°19	25°10	8° 9	13° 7	28°19	17°48	5° 5	23°36	9° 3	13°51	12°28	16°19	25°58	S 22
S 23	18 3 59	1° 9'22	2♂7	25°54	8°33	13°40	28°32	17°52	5° 5	23°38	9° 4	13°52	12°25	16°25	26° 0	S 23
M24	18 7 56	2° 6'34	15°19	26°34	8°56	14°12	28°45	17°56	5° 4	23°40	9° 4	13°R52	12°22	16°32	26° 2	M24
T 25	18 11 52	3° 3'47	28°57	27°10	9°17	14°45	28°58	18° 0	5° 4	23°42	9° 4	13°51	12°19	16°39	26° 4	T 25
W26	18 15 49	4° 0'59	13II 3	27°42	9°37	15°18	29°10	18° 3	5° 3	23°44	9° 5	13°48	12°15	16°46	26° 6	W26
T 27	18 19 45	4°58'12	27°32	28°10	9°54	15°51	29°23	18° 7	5° 2	23°47	9° 5	13°43	12°12	16°52	26° 8	T 27
F 28	18 23 42	5°55'24	12☾20	28°34	10°10	16°24	29°36	18°10	5° 1	23°49	9° 5	13°36	12° 9	16°59	26°10	F 28
S 29	18 27 38	6°52'37	27°18	28°53	10°24	16°57	29°48	18°13	5° 0	23°51	9° 5	13°29	12° 6	17° 6	26°11	S 29
S 30	18 31 35	7☾49'49	12♂18	29☾8	10♂35	17♂31	0II 1	18♂17	4♂59	23☾53	9♂6	13♂21	12♂3	17☾13	26♂13	S 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
S 1	22n 1	17n40	4s40	25n34	2n 6	23n45	2n32	11n49	1n15	17n56	0s48	4n13	2s20	10s22	0s46	21n 9	0s24	11s59	16s52	16s16	15s57	11s45	10n 5	0n23			
S 2	22 9	14 41	5 6	25 36	2 7	23 33	2 29	11 37	1 13	18 0	0 48	4 15	2 20	10 22	0 46	21 9	0 24	11 59	16 53	16 15	15 56	11 43	10 6	0 23			
M 3	22 17	10 48	5 13	25 36	2 7	23 20	2 25	11 25	1 12	18 3	0 48	4 17	2 21	10 22	0 46	21 8	0 24	11 59	16 53	16 14	15 55	11 41	10 7	0 23			
T 4	22 25	6 21	5 0	25 33	2 6	23 7	2 21	11 13	1 11	18 7	0 48	4 19	2 21	10 22	0 46	21 8	0 24	11 59	16 53	16 14	15 54	11 39	10 8	0 23			
W 5	22 32	1 36	4 29	25 29	2 5	22 54	2 17	11 1	1 9	18 10	0 48	4 20	2 21	10 22	0 46	21 8	0 24	11 59	16 54	16 14	15 53	11 37	10 9	0 23			
T 6	22 38	3s10	3 42	25 23	2 2	22 40	2 12	10 49	1 8	18 13	0 48	4 22	2 21	10 22	0 46	21 7	0 24	11 59	16 54	16 14	15 52	11 35	10 10	0 23			
F 7	22 45	7 42	2 44	25 15	1 59	22 26	2 8	10 37	1 7	18 17	0 48	4 24	2 21	10 22	0 46	21 7	0 24	11 59	16 54	16 14	15 51	11 33	10 11	0 23			
S 8	22 50	11 46	1 37	25 6	1 56	22 12	2 3	10 25	1 6	18 20	0 48	4 26	2 22	10 22	0 46	21 7	0 24	11 59	16 55	16 15	15 50	11 31	10 12	0 23			
S 9	22 56	15 12	0 26	24 55	1 51	21 58	1 58	10 13	1 5	18 23	0 48	4 27	2 22	10 22	0 46	21 7	0 24	11 59	16 55	16 15	15 49	11 29	10 13	0 23			
M10	23 1	17 47	0n45	24 43	1 46	21 43	1 52	10 0	1 3	18 27	0 48	4 29	2 22	10 22	0 46	21 6	0 24	11 59	16 55	16 15	15 48	11 28	10 14	0 23			
T 11	23 5	19 27	1 52	24 29	1 41	21 28	1 46	9 48	1 2	18 30	0 48	4 31	2 22	10 22	0 46	21 6	0 24	11 59	16 56	16 14	15 47	11 26	10 15	0 23			
W12	23 10	20 6	2 53	24 14	1 34	21 14	1 41	9 35	1 1	18 33	0 48	4 32	2 22	10 22	0 46	21 6	0 24	11 59	16 56	16 13	15 46	11 24	10 16	0 22			
T 13	23 14	19 45	3 44	23 58	1 27	20 59	1 34	9 22	1 0	18 36	0 48	4 34	2 23	10 22	0 46	21 5	0 24	11 59	16 56	16 12	15 45	11 22	10 16	0 22			
F 14	23 17	18 29	4 24	23 41	1 20	20 44	1 28	9 10	0 59	18 39	0 48	4 35	2 23	10 22	0 46	21 5	0 24	11 59	16 57	16 10	15 45	11 20	10 17	0 22			
S 15	23 20	16 23	4 52	23 24	1 11	20 28	1 21	8 57	0 57	18 42	0 48	4 37	2 23	10 22	0 46	21 5	0 24	11 59	16 57	16 8	15 44	11 18	10 18	0 22			
S 16	23 23	13 37	5 7	23 5	1 2	20 13	1 14	8 44	0 56	18 46	0 48	4 38	2 23	10 22	0 46	21 4	0 24	11 59	16 57	16 6	15 43	11 16	10 19	0 22			
M17	23 25	10 19	5 8	22 46	0 53	19 58	1 7	8 31	0 55	18 49	0 47	4 40	2 24	10 22	0 47	21 4	0 23	11 59	16 58	16 4	15 42	11 14	10 20	0 22			
T 18	23 27	6 37	4 56	22 27	0 43	19 42	0 59	8 18	0 54	18 52	0 47	4 41	2 24	10 22	0 47	21 4	0 23	12 0	16 58	16 3	15 41	11 12	10 20	0 22			
W19	23 28	2 39	4 31	22 7	0 32	19 27	0 51	8 4	0 53	18 55	0 47	4 42	2 24	10 23	0 47	21 3	0 23	12 0	16 58	16 2	15 40	11 10	10 21	0 22			
T 20	23 29	1n28	3 54	21 46	0 20	19 11	0 43	7 51	0 52	18 58	0 47	4 44	2 24	10 23	0 47	21 3	0 23	12 0	16 59	16 1	15 39	11 9	10 22	0 22			
F 21	23 29	5 35	3 6	21 26	0 9	18 56	0 34	7 38	0 51	19 1	0 47	4 45	2 25	10 23	0 47	21 3	0 23	12 0	16 59	16 1	15 38	11 7	10 23	0 22			
S 22	23 29	9 34	2 9	21 5	0s 4	18 41	0 25	7 24	0 49	19 3	0 47	4 46	2 25	10 23	0 47	21 2	0 23	12 0	16 59	16 2	15 37	11 5	10 23	0 22			
S 23	23 29	13 13	1 3	20 45	0 17	18 25	0 16	7 11	0 48	19 6	0 47	4 47	2 25	10 24	0 47	21 2	0 23	12 0	17 0	16 2	15 36	11 3	10 24	0 22			
M24	23 28	16 20	0s 8	20 24	0 30	18 10	0 7	6 57	0 47	19 9	0 47	4 49	2 25	10 24	0 47	21 2	0 23	12 1	17 0	16 2	15 35	11 1	10 25	0 22			
T 25	23 27	18 40	1 20	20 4	0 44	17 55	0s 3	6 44	0 46	19 12	0 47	4 50	2 26	10 24	0 47	21 1	0 23	12 1	17 0	16 2	15 34	10 59	10 25	0 22			
W26	23 26	19 56	2 30	19 43	0 58	17 40	0 13	6 30	0 45	19 15	0 47	4 51	2 26	10 24	0 47	21 1	0 23	12 1	17 1	16 1	15 33	10 57	10 26	0 22			
T 27	23 24	19 56	3 33	19 24	1 12	17 25	0 24	6 16	0 44	19 17	0 47	4 52	2 26	10 25	0 47	21 1	0 23	12 1	17 1	16 0	15 32	10 55	10 27	0 22			
F 28	23 21	18 34	4 22	19 5	1 27	17 11	0 35	6 2	0 43	19 20	0 47	4 53	2 26	10 25	0 47	21 0	0 23	12 2	17 2	15 57	15 31	10 53	10 27	0 21			
S 29	23 19	15 56	4 54	18 46	1 42	16 56	0 46	5 48	0 42	19 23	0 47	4 54	2 27	10 25	0 47	21 0	0 23	12 2	17 2	15 55	15 30	10 51	10 28	0 21			
S 30	23n16	12n15	5s 6	18n28	1s57	16n42	0s57	5n34	0n41	19n26	0s47	4n55	2s27	10s26	0s47	21n 0	0s23	12s 2	17s 2	15s53	15s29	10s49	10n28	0n21			

ASTRODIENST EPHEMERIS for the year 1585

geocentric

JULY 1585 GC

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 35 31	8°47'02	27°09	29°18	10°45	18°14	0°11	18°20	4°R58	23°55	9°V 6	13°R14	12°M 0	17°19	26°V15	M 1
T 2	18 39 28	9°44'14	11°14	29°24	10°52	18°38	0°26	18°23	4°H57	23°57	9° 6	13°M 9	11°56	17°26	26°16	T 2
W 3	18 43 25	10°41'26	26° 3	29°R25	10°58	19°12	0°38	18°26	4°56	24° 0	9° 6	13° 6	11°53	17°33	26°18	W 3
T 4	18 47 21	11°38'37	9°59	29°21	11° 0	19°46	0°51	18°29	4°55	24° 2	9° 6	13°D 5	11°50	17°39	26°20	T 4
F 5	18 51 18	12°35'49	23°33	29°12	11°R 1	20°20	1° 3	18°31	4°54	24° 4	9° 6	13° 5	11°47	17°46	26°21	F 5
S 6	18 55 14	13°33'01	6°M47	28°59	10°59	20°54	1°15	18°34	4°53	24° 6	9° 6	13°R 6	11°44	17°53	26°22	S 6
S 7	18 59 11	14°30'12	19°44	28°41	10°55	21°28	1°27	18°37	4°52	24° 8	9° 6	13° 6	11°40	18° 0	26°24	S 7
M 8	19 3 7	15°27'24	2°A27	28°19	10°49	22° 3	1°39	18°39	4°50	24°10	9° 7	13° 4	11°37	18° 6	26°25	M 8
T 9	19 7 4	16°24'36	14°57	27°53	10°40	22°37	1°51	18°41	4°49	24°13	9° 7	13° 0	11°34	18°13	26°26	T 9
W10	19 11 0	17°21'48	27°18	27°23	10°29	23°12	2° 3	18°44	4°48	24°15	9°R 7	12°54	11°31	18°20	26°28	W10
T 11	19 14 57	18°19'00	9°Z31	26°49	10°15	23°47	2°15	18°46	4°46	24°17	9° 7	12°44	11°28	18°27	26°29	T 11
F 12	19 18 54	19°16'13	21°37	26°13	9°59	24°21	2°26	18°48	4°45	24°19	9° 6	12°33	11°25	18°33	26°30	F 12
S 13	19 22 50	20°13'26	3°A36	25°35	9°41	24°56	2°38	18°50	4°43	24°22	9° 6	12°21	11°21	18°40	26°31	S 13
S 14	19 26 47	21°10'40	15°31	24°54	9°20	25°31	2°50	18°52	4°42	24°24	9° 6	12° 9	11°18	18°47	26°32	S 14
M15	19 30 43	22° 7'54	27°24	24°13	8°57	26° 7	3° 1	18°54	4°40	24°26	9° 6	11°58	11°15	18°53	26°33	M15
T 16	19 34 40	23° 5'09	9°H15	23°31	8°33	26°42	3°12	18°55	4°39	24°28	9° 6	11°48	11°12	19° 0	26°34	T 16
W17	19 38 36	24° 2'25	21° 9	22°50	8° 6	27°17	3°24	18°57	4°37	24°30	9° 6	11°42	11° 9	19° 7	26°35	W17
T 18	19 42 33	24°59'42	3°V 8	22°10	7°37	27°53	3°35	18°58	4°36	24°33	9° 6	11°37	11° 6	19°14	26°35	T 18
F 19	19 46 29	25°56'59	15°18	21°31	7° 6	28°28	3°46	19° 0	4°34	24°35	9° 6	11°35	11° 2	19°20	26°36	F 19
S 20	19 50 26	26°54'17	27°42	20°56	6°34	29° 4	3°57	19° 1	4°32	24°37	9° 5	11°D35	10°59	19°27	26°37	S 20
S 21	19 54 23	27°51'37	10°B27	20°23	6° 1	29°40	4° 8	19° 2	4°30	24°39	9° 5	11°R35	10°56	19°34	26°37	S 21
M22	19 58 19	28°48'57	23°35	19°54	5°26	0°A16	4°19	19° 3	4°29	24°42	9° 5	11°35	10°53	19°40	26°38	M22
T 23	20 2 16	29°46'19	7°H12	19°30	4°51	0°52	4°30	19° 4	4°27	24°44	9° 5	11°33	10°50	19°47	26°38	T 23
W24	20 6 12	0°M43'41	21°17	19°11	4°14	1°28	4°40	19° 5	4°25	24°46	9° 4	11°28	10°46	19°54	26°39	W24
T 25	20 10 9	1°41'05	5°E51	18°57	3°37	2° 4	4°51	19° 6	4°23	24°48	9° 4	11°21	10°43	20° 1	26°39	T 25
F 26	20 14 5	2°38'30	20°49	18°49	3° 0	2°41	5° 1	19° 6	4°21	24°50	9° 4	11°12	10°40	20° 7	26°40	F 26
S 27	20 18 2	3°35'55	6°M 1	18°D47	2°23	3°17	5°11	19° 7	4°19	24°53	9° 3	11° 1	10°37	20°14	26°40	S 27
S 28	20 21 58	4°33'22	21°17	18°51	1°46	3°54	5°22	19° 8	4°17	24°55	9° 3	10°51	10°34	20°21	26°40	S 28
M29	20 25 55	5°30'49	6°M26	19° 1	1° 9	4°31	5°32	19° 8	4°15	24°57	9° 2	10°41	10°31	20°28	26°40	M29
T 30	20 29 52	6°28'17	21°19	19°18	0°33	5° 7	5°42	19° 8	4°13	24°59	9° 2	10°34	10°27	20°34	26°40	T 30
W31	20 33 48	7°M25'46	5°A49	19°E42	29°E58	5°A44	5°H52	19°V 8	4°H11	25°E 1	9°V 2	10°M29	10°M24	20°A41	26°R40	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	23n12	7n50	4s57	18n11	2s12	16n28	1s 9	5n20	0n40	19n28	0s47	4n56	2s27	10s26	0s47	20n59	0s23
T 2	23 8	3 1	4 29	17 55	2 27	16 15	1 21	5 6	0 39	19 31	0 47	4 57	2 27	10 27	0 47	20 59	0 23
W 3	23 4	1s51	3 44	17 40	2 42	16 1	1 33	4 52	0 38	19 33	0 47	4 58	2 28	10 27	0 47	20 58	0 23
T 4	22 59	6 32	2 48	17 27	2 57	15 49	1 46	4 38	0 37	19 36	0 47	4 59	2 28	10 28	0 47	20 58	0 23
F 5	22 54	10 45	1 43	17 14	3 12	15 36	1 59	4 23	0 36	19 38	0 47	4 59	2 28	10 28	0 47	20 58	0 23
S 6	22 48	14 20	0 34	17 3	3 26	15 24	2 12	4 9	0 35	19 41	0 47	5 0	2 28	10 28	0 47	20 57	0 23
S 7	22 42	17 8	0n35	16 53	3 40	15 12	2 25	3 54	0 34	19 43	0 47	5 1	2 29	10 29	0 47	20 57	0 23
M 8	22 36	19 2	1 41	16 45	3 53	15 1	2 39	3 40	0 33	19 46	0 47	5 2	2 29	10 29	0 47	20 57	0 23
T 9	22 29	19 58	2 41	16 38	4 5	14 50	2 52	3 25	0 32	19 48	0 47	5 2	2 29	10 30	0 47	20 56	0 23
W10	22 22	19 55	3 32	16 33	4 16	14 40	3 6	3 11	0 31	19 51	0 47	5 3	2 29	10 30	0 47	20 56	0 23
T 11	22 14	18 56	4 13	16 29	4 16	14 30	3 20	2 56	0 30	19 53	0 47	5 3	2 30	10 31	0 47	20 56	0 23
F 12	22 6	17 6	4 42	16 27	4 35	14 20	3 34	2 41	0 29	19 55	0 47	5 4	2 30	10 32	0 47	20 55	0 23
S 13	21 58	14 33	4 58	16 27	4 42	14 12	3 48	2 27	0 28	19 57	0 47	5 4	2 30	10 32	0 47	20 55	0 23
S 14	21 49	11 25	5 1	16 28	4 48	14 3	4 2	2 12	0 27	20 0	0 47	5 5	2 31	10 33	0 47	20 54	0 23
M15	21 40	7 51	4 51	16 31	4 52	13 56	4 16	1 57	0 26	20 2	0 47	5 5	2 31	10 33	0 47	20 54	0 23
T 16	21 31	3 58	4 28	16 36	4 55	13 49	4 30	1 42	0 25	20 4	0 48	5 6	2 31	10 34	0 48	20 54	0 23
W17	21 21	0n 4	3 54	16 42	4 55	13 42	4 44	1 27	0 24	20 6	0 48	5 6	2 31	10 34	0 48	20 53	0 23
T 18	21 11	4 8	3 9	16 49	4 54	13 36	4 58	1 12	0 23	20 8	0 48	5 6	2 32	10 35	0 48	20 53	0 23
F 19	21 0	8 6	2 15	16 58	4 52	13 31	5 11	0 57	0 22	20 10	0 48	5 7	2 32	10 36	0 48	20 52	0 23
S 20	20 49	11 49	1 13	17 7	4 47	13 27	5 24	0 42	0 21	20 12	0 48	5 7	2 32	10 36	0 48	20 52	0 23
S 21	20 38	15 5	0 6	17 18	4 41	13 23	5 36	0 27	0 20	20 14	0 48	5 7	2 33	10 37	0 48	20 52	0 23
M22	20 26	17 41	1s 3	17 30	4 34	13 19	5 48	0 12	0 19	20 16	0 48	5 7	2 33	10 38	0 48	20 51	0 23
T 23	20 15	19 24	2 11	17 42	4 25	13 16	6 0	0s 4	0 19	20 18	0 48	5 7	2 33	10 38	0 48	20 51	0 23
W24	20 2	19 59	3 14	17 55	4 15	13 14	6 11	0 19	0 18	20 20	0 48	5 7	2 33	10 39	0 48	20 51	0 23
T 25	19 50	19 16	4 5	18 8	4 3	13 12	6 21	0 34	0 17	20 22	0 48	5 7	2 34	10 40	0 48	20 50	0 23
F 26	19 37	17 14	4 42	18 22	3 51	13 11	6 31	0 50	0 16	20 24	0 48	5 7	2 34	10 41	0 48	20 50	0 23
S 27	19 23	13 58	4 59	18 35	3 37	13 11	6 40	1 5	0 15	20 26	0 48	5 7	2 34	10 41	0 48	20 49	0 23
S 28	19 10	9 46	4 56	18 49	3 23	13 11	6 48	1 20	0 14	20 28	0 48	5 7	2 35	10 42	0 48	20 49	0 23
M29	18 56	4 58	4 31	19 2	3 8	13 11	6 55	1 36	0 13	20 29	0 48	5 7	2 35	10 43	0 48	20 49	0 23
T 30	18 42	0s 3	3 48	19 15	2 52	13 12	7 2	1 51	0 12	20 31	0 48	5 7	2 35	10 44	0 48	20 48	0 23
W31	18n27	4s57	2s52	19n28	2s37	13n14	7s 8	2s 6	0n12	20n33	0s48	5n 7	2s35	10s44	0s48	20n48	0s23

Julian Day Number = 2300150.5, Delta T = 110.61 sec
 Ecliptic obliquity = 23°29'28", Nutation = 0°00'12", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 18°57'20", Lahiri = 18°04'20"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1585

geocentric

AUGUST 1585 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 37 45	8♂23'15	19♂52	20♂12	29♂R23	6♂21	6♂II 2	19♂R 8	4♂R 9	25♂4 4	9♂R 1	10♂R27	10♂M21	20♂♂48	26♂R40	T 1
F 2	20 41 41	9°20'45	3♂M28	20°49	28♂50	6°58	6°11	19♂Y 8	4♂X 7	25° 6	9♂Y 1	10♂M26	10°18	20°54	26♂Y40	F 2
S 3	20 45 38	10°18'16	16°40	21°32	28°19	7°35	6°21	19° 8	4° 5	25° 8	9° 0	10°26	10°15	21° 1	26°40	S 3
S 4	20 49 34	11°15'48	29°30	22°22	27°49	8°13	6°30	19° 8	4° 3	25°10	9° 0	10°25	10°12	21° 8	26°40	S 4
M 5	20 53 31	12°13'21	12♂7 4	23°18	27°21	8°50	6°40	19° 7	4° 1	25°12	8°59	10°23	10° 8	21°15	26°40	M 5
T 6	20 57 27	13°10'55	24°24	24°21	26°55	9°28	6°49	19° 7	3°59	25°14	8°58	10°18	10° 5	21°21	26°39	T 6
W 7	21 1 24	14° 8'30	6♂34	25°29	26°30	10° 5	6°58	19° 6	3°56	25°17	8°58	10°10	10° 2	21°28	26°39	W 7
T 8	21 5 21	15° 6'06	18°37	26°43	26° 8	10°43	7° 7	19° 6	3°54	25°19	8°57	10° 0	9°59	21°35	26°39	T 8
F 9	21 9 17	16° 3'43	0♂♂35	28° 3	25°48	11°21	7°16	19° 5	3°52	25°21	8°57	9°47	9°56	21°41	26°38	F 9
S 10	21 13 14	17° 1'21	12°29	29°28	25°31	11°58	7°25	19° 4	3°50	25°23	8°56	9°34	9°52	21°48	26°38	S 10
S 11	21 17 10	17°59'01	24°22	0♂M58	25°16	12°36	7°33	19° 3	3°47	25°25	8°55	9°20	9°49	21°55	26°37	S 11
M12	21 21 7	18°56'41	6♂X14	2°32	25° 3	13°14	7°42	19° 2	3°45	25°27	8°55	9° 7	9°46	22° 2	26°37	M12
T 13	21 25 3	19°54'23	18° 8	4°11	24°52	13°52	7°50	19° 1	3°43	25°29	8°54	8°57	9°43	22° 8	26°36	T 13
W14	21 29 0	20°52'07	0♂Y 4	5°54	24°44	14°31	7°58	18°59	3°40	25°31	8°53	8°49	9°40	22°15	26°35	W14
T 15	21 32 56	21°49'52	12° 7	7°40	24°39	15° 9	8° 6	18°58	3°38	25°33	8°53	8°43	9°37	22°22	26°34	T 15
F 16	21 36 53	22°47'39	24°18	9°29	24°36	15°47	8°14	18°56	3°36	25°35	8°52	8°41	9°33	22°29	26°33	F 16
S 17	21 40 50	23°45'28	6♂43	11°21	24°D35	16°26	8°22	18°55	3°33	25°37	8°51	8°D40	9°30	22°35	26°33	S 17
S 18	21 44 46	24°43'18	19°25	13°14	24°36	17° 4	8°30	18°53	3°31	25°39	8°50	8°R40	9°27	22°42	26°32	S 18
M19	21 48 43	25°41'11	2♂II29	15°10	24°40	17°43	8°37	18°51	3°29	25°41	8°50	8°40	9°24	22°49	26°31	M19
T 20	21 52 39	26°39'05	15°59	17° 6	24°46	18°22	8°45	18°49	3°26	25°43	8°49	8°39	9°21	22°55	26°30	T 20
W21	21 56 36	27°37'01	29°57	19° 4	24°55	19° 0	8°52	18°47	3°24	25°45	8°48	8°35	9°17	23° 2	26°28	W21
T 22	22 0 32	28°34'58	14♂24	21° 2	25° 5	19°39	8°59	18°45	3°22	25°47	8°47	8°29	9°14	23° 9	26°27	T 22
F 23	22 4 29	29°32'58	29°15	23° 1	25°18	20°18	9° 6	18°43	3°19	25°49	8°46	8°21	9°11	23°16	26°26	F 23
S 24	22 8 25	0♂p30'59	14♂M25	24°59	25°32	20°57	9°13	18°41	3°17	25°51	8°45	8°11	9° 8	23°22	26°25	S 24
S 25	22 12 22	1°29'02	29°43	26°58	25°49	21°37	9°19	18°39	3°14	25°53	8°45	8° 2	9° 5	23°29	26°23	S 25
M26	22 16 19	2°27'07	14♂p58	28°56	26° 7	22°16	9°26	18°36	3°12	25°55	8°44	7°53	9° 2	23°36	26°22	M26
T 27	22 20 15	3°25'13	29°59	0♂p53	26°27	22°55	9°32	18°34	3°10	25°57	8°43	7°46	8°58	23°42	26°21	T 27
W28	22 24 12	4°23'21	14♂♂39	2°50	26°49	23°35	9°38	18°31	3° 7	25°59	8°42	7°42	8°55	23°49	26°19	W28
T 29	22 28 8	5°21'30	28°52	4°46	27°13	24°14	9°44	18°28	3° 5	26° 0	8°41	7°40	8°52	23°56	26°18	T 29
F 30	22 32 5	6°19'41	12♂M35	6°41	27°39	24°54	9°50	18°25	3° 2	26° 2	8°40	7°D39	8°49	24° 3	26°16	F 30
S 31	22 36 1	7♂p17'53	25♂M52	8♂p35	28♂5 6	25♂♂34	9♂II56	18♂Y22	3♂X 0	26♂5 4	8♂Y39	7♂M40	8♂M46	24♂♂ 9	26♂Y14	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	18n12	9s26	1s46	19n39	2s21	13n15	7s13	2s22	0n11	20n34	0s48	5n 7	2s36	10s45	0s48	20n47
F 2	17 57	13 16	0 37	19 50	2 4	13 18	7 17	2 37	0 10	20 36	0 48	5 6	2 36	10 46	0 48	20 47
S 3	17 42	16 20	0n33	19 59	1 48	13 20	7 21	2 53	0 9	20 38	0 48	5 6	2 36	10 47	0 48	20 47
S 4	17 26	18 29	1 39	20 7	1 32	13 24	7 24	3 8	0 8	20 39	0 48	5 6	2 36	10 47	0 48	20 46
M 5	17 10	19 40	2 39	20 14	1 16	13 27	7 25	3 24	0 7	20 41	0 48	5 5	2 37	10 48	0 48	20 46
T 6	16 54	19 53	3 30	20 19	1 0	13 31	7 27	3 39	0 6	20 42	0 48	5 5	2 37	10 49	0 48	20 46
W 7	16 37	19 9	4 11	20 22	0 45	13 35	7 27	3 55	0 6	20 44	0 48	5 4	2 37	10 50	0 48	20 45
T 8	16 20	17 35	4 40	20 22	0 30	13 39	7 27	4 11	0 5	20 45	0 48	5 4	2 38	10 51	0 48	20 45
F 9	16 3	15 15	4 56	20 21	0 15	13 43	7 26	4 26	0 4	20 47	0 48	5 3	2 38	10 51	0 48	20 44
S 10	15 46	12 18	4 59	20 17	0 1	13 48	7 25	4 42	0 3	20 48	0 48	5 3	2 38	10 52	0 48	20 44
S 11	15 28	8 52	4 50	20 11	0n12	13 52	7 22	4 57	0 2	20 49	0 48	5 2	2 38	10 53	0 48	20 44
M12	15 11	5 6	4 27	20 2	0 24	13 57	7 20	5 13	0 1	20 51	0 48	5 1	2 39	10 54	0 48	20 43
T 13	14 53	1 7	3 54	19 50	0 36	14 2	7 17	5 28	0 1	20 52	0 48	5 1	2 39	10 55	0 48	20 43
W14	14 34	2n55	3 9	19 35	0 47	14 7	7 13	5 44	0s 0	20 53	0 48	5 0	2 39	10 56	0 48	20 43
T 15	14 16	6 53	2 16	19 18	0 57	14 12	7 9	6 0	0 1	20 55	0 48	4 59	2 39	10 57	0 48	20 42
F 16	13 57	10 37	1 15	18 58	1 6	14 17	7 4	6 15	0 2	20 56	0 49	4 58	2 40	10 57	0 48	20 42
S 17	13 38	13 57	0 10	18 36	1 14	14 22	6 59	6 31	0 3	20 57	0 49	4 57	2 40	10 58	0 48	20 41
S 18	13 19	16 43	0s57	18 10	1 21	14 27	6 54	6 46	0 3	20 58	0 49	4 57	2 40	10 59	0 48	20 41
M19	12 59	18 42	2 3	17 43	1 27	14 32	6 48	7 2	0 4	20 59	0 49	4 56	2 40	11 0	0 48	20 41
T 20	12 39	19 42	3 4	17 13	1 32	14 37	6 42	7 17	0 5	21 0	0 49	4 55	2 41	11 1	0 48	20 40
W21	12 20	19 32	3 57	16 40	1 37	14 42	6 36	7 33	0 6	21 1	0 49	4 54	2 41	11 2	0 48	20 40
T 22	12 0	18 8	4 37	16 6	1 40	14 46	6 30	7 48	0 6	21 2	0 49	4 53	2 41	11 3	0 48	20 40
F 23	11 39	15 29	4 59	15 30	1 43	14 50	6 23	8 4	0 7	21 3	0 49	4 52	2 41	11 3	0 48	20 39
S 24	11 19	11 44	5 1	14 52	1 45	14 55	6 16	8 19	0 8	21 4	0 49	4 51	2 42	11 4	0 48	20 39
S 25	10 58	7 12	4 41	14 13	1 46	14 59	6 9	8 35	0 9	21 5	0 49	4 49	2 42	11 5	0 48	20 39
M26	10 37	2 13	4 2	13 32	1 47	15 2	6 2	8 50	0 9	21 6	0 49	4 48	2 42	11 6	0 48	20 38
T 27	10 16	2s51	3 6	12 50	1 46	15 6	5 55	9 5	0 10	21 7	0 49	4 47	2 42	11 7	0 48	20 38
W28	9 55	7 37	1 59	12 8	1 46	15 9	5 47	9 21	0 11	21 8	0 49	4 46	2 43	11 8	0 48	20 38
T 29	9 34	11 49	0 47	11 24	1 44	15 12	5 40	9 36	0 12	21 9	0 49	4 45	2 43	11 9	0 48	20 37
F 30	9 13	15 14	0n26	10 39	1 42	15 15	5 32	9 51	0 12	21 10	0 49	4 43	2 43	11 10	0 48	20 37
S 31	8n51	17s43	1n36	9n54	1n39	15n17	5s25	10s 6	0s13	21n10	0s49	4n42	2s43	11s10	0s48	20n37

Julian Day Number = 2300181.5, Delta T = 110.47 sec
 Ecliptic obliquity = 23°29'28", Nutation = 0°00'12", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 18°57'24", Lahiri = 18°04'25"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1585

geocentric

OCTOBER 1585 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 38 14	7♂37'45	12♂10	28♂56	21♂25	16♂44	11♂22	16♂19	1♂53	26♂47	8♂5	6♂5	7♂7	27♂37	25♂4	T 1
W 2	0 42 11	8♂36'59	24♂15	0♂18	22°22	17°27	11♂22	16♂15	1♂51	26°48	8♂4	6♂4	7°4	27°44	25♂1	W 2
T 3	0 46 8	9♂36'16	6♂12	1°39	23°20	18°9	11°21	16°10	1°49	26°49	8°3	6°1	7°1	27°51	24°58	T 3
F 4	0 50 4	10°35'34	18°5	2°58	24°18	18°51	11°21	16°5	1°48	26°50	8°1	5°58	6°58	27°58	24°55	F 4
S 5	0 54 1	11°34'53	29°57	4°17	25°17	19°34	11°20	16°0	1°46	26°51	8°0	5°54	6°54	28°4	24°53	S 5
S 6	0 57 57	12°34'15	11♂51	5°34	26°16	20°16	11°19	15°56	1°44	26°52	7°59	5°50	6°51	28°11	24°50	S 6
M 7	1 1 54	13°33'39	23°51	6°49	27°16	20°59	11°17	15°51	1°43	26°53	7°58	5°46	6°48	28°18	24°47	M 7
T 8	1 5 50	14°33'04	5♂58	8°4	28°16	21°42	11°16	15°46	1°41	26°53	7°57	5°43	6°45	28°24	24°44	T 8
W 9	1 9 47	15°32'32	18°14	9°16	29°17	22°24	11°14	15°41	1°40	26°54	7°56	5°41	6°42	28°31	24°41	W 9
T 10	1 13 43	16°32'02	0♂40	10°27	0♂18	23°7	11°12	15°37	1°38	26°55	7°54	5°D40	6°39	28°38	24°38	T 10
F 11	1 17 40	17°31'33	13°18	11°37	1°19	23°50	11°10	15°32	1°37	26°56	7°53	5°40	6°35	28°45	24°35	F 11
S 12	1 21 36	18°31'07	26°7	12°44	2°21	24°33	11°8	15°27	1°35	26°56	7°52	5°41	6°32	28°51	24°32	S 12
S 13	1 25 33	19°30'44	9♂10	13°49	3°23	25°16	11°5	15°22	1°34	26°57	7°51	5°42	6°29	28°58	24°29	S 13
M14	1 29 30	20°30'22	22°26	14°52	4°26	25°59	11°2	15°18	1°33	26°57	7°50	5°44	6°26	29°5	24°26	M14
T 15	1 33 26	21°30'03	5♂59	15°52	5°28	26°42	10°59	15°13	1°31	26°58	7°49	5°45	6°23	29°11	24°24	T 15
W16	1 37 23	22°29'46	19°47	16°49	6°32	27°26	10°56	15°8	1°30	26°58	7°48	5°R45	6°20	29°18	24°21	W16
T 17	1 41 19	23°29'32	3♂51	17°43	7°35	28°9	10°53	15°3	1°29	26°59	7°47	5°45	6°16	29°25	24°18	T 17
F 18	1 45 16	24°29'20	18°9	18°34	8°39	28°52	10°50	14°59	1°28	26°59	7°45	5°44	6°13	29°32	24°15	F 18
S 19	1 49 12	25°29'10	2♂39	19°20	9°43	29°36	10°46	14°54	1°27	27°0	7°44	5°43	6°10	29°38	24°12	S 19
S 20	1 53 9	26°29'02	17°17	20°3	10°48	0♂19	10°42	14°50	1°26	27°0	7°43	5°42	6°7	29°45	24°9	S 20
M21	1 57 5	27°28'56	1♂56	20°41	11°53	1°3	10°38	14°45	1°24	27°0	7°42	5°41	6°4	29°52	24°6	M21
T 22	2 1 2	28°28'53	16°31	21°13	12°58	1°47	10°34	14°40	1°23	27°1	7°41	5°40	6°0	29°58	24°3	T 22
W23	2 4 59	29°28'51	0♂54	21°40	14°3	2°30	10°29	14°36	1°23	27°1	7°40	5°D40	5°57	0♂5	24°0	W23
T 24	2 8 55	0♂28'52	15°1	22°0	15°9	3°14	10°25	14°31	1°22	27°1	7°39	5°40	5°54	0°12	23°57	T 24
F 25	2 12 52	1°28'54	28°48	22°13	16°15	3°58	10°20	14°27	1°21	27°1	7°38	5°40	5°51	0°19	23°54	F 25
S 26	2 16 48	2°28'58	12♂12	22°R19	17°21	4°42	10°15	14°22	1°20	27°2	7°37	5°41	5°48	0°25	23°51	S 26
S 27	2 20 45	3°29'04	25°13	22°16	18°27	5°26	10°10	14°18	1°19	27°2	7°36	5°41	5°45	0°32	23°48	S 27
M28	2 24 41	4°29'11	7♂53	22°5	19°34	6°10	10°5	14°14	1°19	27°2	7°35	5°41	5°41	0°39	23°46	M28
T 29	2 28 38	5°29'21	20°14	21°44	20°41	6°54	9°59	14°9	1°18	27°2	7°34	5°R41	5°38	0°45	23°43	T 29
W30	2 32 34	6°29'31	2♂22	21°13	21°48	7°38	9°54	14°5	1°17	27°R 2	7°33	5°D41	5°35	0°52	23°40	W30
T 31	2 36 31	7♂29'43	14♂20	20♂33	22♂55	8♂23	9♂48	14♂1	1♂17	27♂2	7♂32	5♂41	5♂32	0♂59	23♂37	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	3s 2	18s10	4n47	12s38	1s37	12n59	1s30	17s25	0s34	21n21	0s51	3n51	2s48	11s34	0s48	20n28
W 2	3 25	16 16	5 7	13 13	1 44	12 47	1 23	17 37	0 34	21 21	0 51	3 49	2 48	11 35	0 48	20 28
T 3	3 49	13 42	5 14	13 48	1 50	12 34	1 16	17 50	0 35	21 21	0 51	3 48	2 48	11 35	0 48	20 28
F 4	4 12	10 35	5 7	14 22	1 57	12 21	1 10	18 2	0 35	21 21	0 51	3 46	2 48	11 36	0 48	20 28
S 5	4 35	7 2	4 47	14 54	2 3	12 7	1 3	18 14	0 36	21 21	0 51	3 44	2 48	11 37	0 48	20 28
S 6	4 59	3 13	4 14	15 26	2 10	11 53	0 57	18 26	0 37	21 20	0 51	3 42	2 48	11 37	0 48	20 27
M 7	5 22	0n46	3 30	15 57	2 16	11 39	0 51	18 38	0 37	21 20	0 51	3 40	2 48	11 38	0 48	20 27
T 8	5 45	4 46	2 36	16 27	2 21	11 24	0 45	18 50	0 38	21 20	0 51	3 38	2 48	11 38	0 48	20 27
W 9	6 8	8 38	1 35	16 56	2 27	11 9	0 39	19 2	0 38	21 20	0 51	3 36	2 48	11 39	0 48	20 27
T 10	6 31	12 10	0 28	17 24	2 32	10 53	0 33	19 13	0 39	21 19	0 51	3 35	2 48	11 39	0 48	20 27
F 11	6 54	15 12	0s42	17 51	2 37	10 37	0 27	19 24	0 39	21 19	0 51	3 33	2 48	11 40	0 47	20 27
S 12	7 16	17 32	1 51	18 16	2 42	10 20	0 21	19 36	0 40	21 19	0 51	3 31	2 48	11 40	0 47	20 27
S 13	7 39	19 0	2 55	18 40	2 46	10 3	0 15	19 47	0 40	21 18	0 51	3 29	2 48	11 41	0 47	20 26
M14	8 2	19 26	3 51	19 2	2 50	9 45	0 10	19 57	0 41	21 18	0 51	3 27	2 48	11 41	0 47	20 26
T 15	8 24	18 47	4 35	19 24	2 54	9 27	0 4	20 8	0 42	21 17	0 51	3 26	2 48	11 42	0 47	20 26
W16	8 46	17 0	5 4	19 43	2 57	9 9	0n1	20 19	0 42	21 17	0 52	3 24	2 48	11 42	0 47	20 26
T 17	9 9	14 12	5 16	20 1	2 59	8 50	0 6	20 29	0 43	21 16	0 52	3 22	2 48	11 42	0 47	20 26
F 18	9 31	10 31	5 9	20 17	3 1	8 31	0 11	20 39	0 43	21 16	0 52	3 20	2 48	11 43	0 47	20 26
S 19	9 53	6 9	4 42	20 31	3 2	8 12	0 16	20 49	0 44	21 15	0 52	3 19	2 47	11 43	0 47	20 26
S 20	10 14	1 24	3 57	20 43	3 3	7 52	0 21	20 59	0 44	21 15	0 52	3 17	2 47	11 44	0 47	20 26
M21	10 36	3s28	2 56	20 53	3 2	7 32	0 26	21 8	0 45	21 14	0 52	3 15	2 47	11 44	0 47	20 26
T 22	10 57	8 7	1 44	21 1	3 1	7 11	0 31	21 18	0 45	21 14	0 52	3 13	2 47	11 44	0 47	20 26
W23	11 19	12 14	0 26	21 6	2 59	6 50	0 36	21 27	0 46	21 13	0 52	3 12	2 47	11 45	0 47	20 26
T 24	11 40	15 33	0n52	21 8	2 55	6 29	0 40	21 36	0 46	21 12	0 52	3 10	2 47	11 45	0 47	20 26
F 25	12 1	17 54	2 5	21 7	2 51	6 7	0 44	21 45	0 47	21 12	0 52	3 8	2 47	11 45	0 47	20 26
S 26	12 22	19 11	3 9	21 3	2 45	5 45	0 49	21 54	0 47	21 11	0 52	3 7	2 47	11 45	0 47	20 26
S 27	12 42	19 23	4 2	20 55	2 38	5 23	0 53	22 2	0 48	21 10	0 52	3 5	2 47	11 46	0 47	20 25
M28	13 3	18 35	4 41	20 43	2 29	5 1	0 57	22 10	0 48	21 10	0 52	3 4	2 47	11 46	0 47	20 25
T 29	13 23	16 55	5 6	20 28	2 19	4 38	1 1	22 18	0 48	21 9	0 52	3 2	2 47	11 46	0 47	20 25
W30	13 43	14 32	5 17	20 8	2 7	4 15	1 5	22 26	0 49	21 8	0 52	3 1	2 46	11 46	0 47	20 25
T 31	14s 2	11s33	5n14	19s44	1s53	3n52	1n 9	22s34	0s49	21n 7	0s51	2n59	2s46	11s46	0s47	20n25

Julian Day Number = 2300242.5, Delta T = 110.19 sec

Ecliptic obliquity = 23°29'28", Nutation = 0°00'10", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 18°57'33", Lahiri = 18°04'33"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1585
geocentric

NOVEMBER 1585 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 40 28	8♌29°57	26♋12	19°R43	24♍3	9♊7	9°R42	13°R57	1°R16	27°R 2	7°R31	5♌41	5♌29	1♋6	23°R34	F 1
S 2	2 44 24	9°30'12	8♋5	18♌44	25°10	9°51	9♊36	13°Y53	1♋16	27°2	7°Y30	5°42	5°26	1°12	23°Y31	S 2
S 3	2 48 21	10°30'29	20° 1	17°38	26°18	10°36	9°30	13°49	1°15	27° 2	7°29	5°42	5°22	1°19	23°29	S 3
M 4	2 52 17	11°30'47	2°Y 4	16°24	27°26	11°20	9°23	13°45	1°15	27° 2	7°28	5°43	5°19	1°26	23°26	M 4
T 5	2 56 14	12°31'07	14°19	15° 7	28°35	12° 5	9°17	13°41	1°15	27° 1	7°27	5°43	5°16	1°32	23°23	T 5
W 6	3 0 10	13°31'28	26°47	13°46	29°43	12°50	9°10	13°37	1°14	27° 1	7°26	5°44	5°13	1°39	23°20	W 6
T 7	3 4 7	14°31'51	9♉30	12°27	0♌52	13°34	9° 3	13°34	1°14	27° 1	7°25	5°R44	5°10	1°46	23°18	T 7
F 8	3 8 3	15°32'16	22°28	11°10	2° 1	14°19	8°56	13°30	1°14	27° 1	7°24	5°43	5° 6	1°52	23°15	F 8
S 9	3 12 0	16°32'43	5♊41	9°59	3°10	15° 4	8°49	13°26	1°14	27° 0	7°23	5°42	5° 3	1°59	23°12	S 9
S 10	3 15 57	17°33'11	19° 9	8°55	4°19	15°49	8°42	13°23	1°14	27° 0	7°23	5°41	5° 0	2° 6	23°10	S 10
M 11	3 19 53	18°33'41	2♉49	8° 1	5°29	16°34	8°35	13°19	1°D14	27° 0	7°22	5°39	4°57	2°13	23° 7	M 11
T 12	3 23 50	19°34'12	16°39	7°17	6°38	17°19	8°28	13°16	1°14	26°59	7°21	5°38	4°54	2°19	23° 4	T 12
W 13	3 27 46	20°34'46	0♌39	6°45	7°48	18° 4	8°20	13°13	1°14	26°59	7°20	5°36	4°51	2°26	23° 2	W 13
T 14	3 31 43	21°35'21	14°44	6°24	8°58	18°49	8°13	13° 9	1°14	26°58	7°19	5°35	4°47	2°33	22°59	T 14
F 15	3 35 39	22°35'58	28°54	6°D15	10° 8	19°34	8° 5	13° 6	1°14	26°58	7°18	5°D35	4°44	2°39	22°57	F 15
S 16	3 39 36	23°36'37	13♍7	6°18	11°18	20°19	7°58	13° 3	1°15	26°57	7°18	5°36	4°41	2°46	22°55	S 16
S 17	3 43 32	24°37'18	27°20	6°30	12°29	21° 4	7°50	13° 0	1°15	26°57	7°17	5°37	4°38	2°53	22°52	S 17
M 18	3 47 29	25°38'00	11♌30	6°53	13°39	21°50	7°42	12°57	1°15	26°56	7°16	5°39	4°35	3° 0	22°50	M 18
T 19	3 51 26	26°38'44	25°36	7°24	14°50	22°35	7°34	12°55	1°16	26°55	7°16	5°40	4°31	3° 6	22°47	T 19
W 20	3 55 22	27°39'29	9♌33	8° 3	16° 1	23°21	7°26	12°52	1°16	26°55	7°15	5°R40	4°28	3°13	22°45	W 20
T 21	3 59 19	28°40'16	23°19	8°49	17°12	24° 6	7°18	12°49	1°17	26°54	7°14	5°39	4°25	3°20	22°43	T 21
F 22	4 3 15	29°41'04	6♊50	9°42	18°23	24°52	7°10	12°47	1°17	26°53	7°14	5°37	4°22	3°26	22°41	F 22
S 23	4 7 12	0♊41'54	20° 4	10°40	19°34	25°37	7° 2	12°45	1°18	26°53	7°13	5°33	4°19	3°33	22°38	S 23
S 24	4 11 8	1°42'44	3♉1	11°42	20°45	26°23	6°54	12°42	1°19	26°52	7°12	5°29	4°16	3°40	22°36	S 24
M 25	4 15 5	2°43'36	15°40	12°49	21°57	27° 9	6°46	12°40	1°19	26°51	7°12	5°25	4°12	3°47	22°34	M 25
T 26	4 19 1	3°44'28	28° 2	14° 0	23° 8	27°54	6°38	12°38	1°20	26°50	7°11	5°20	4° 9	3°53	22°32	T 26
W 27	4 22 58	4°45'22	10♋11	15°13	24°20	28°40	6°29	12°36	1°21	26°49	7°11	5°16	4° 6	4° 0	22°30	W 27
T 28	4 26 55	5°46'16	22° 9	16°29	25°31	29°26	6°21	12°34	1°22	26°48	7°10	5°14	4° 3	4° 7	22°28	T 28
F 29	4 30 51	6°47'11	4♋1	17°47	26°43	0♉12	6°13	12°32	1°23	26°47	7°10	5°D13	4° 0	4°13	22°26	F 29
S 30	4 34 48	7♊48'07	15♋53	19♌8	27♌55	0♉58	6♊5	12°Y30	1♋24	26°46	7°Y 9	5♌13	3♌57	4♋20	22°Y25	S 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
F 1	14s22	8s 9	4n57	19s16	1s37	3n29	1n12	22s41	0s50	21n 6	0s51	2n58	2s46	11s46	0s47	20n25	0s23	12s57	17s22	13s27	13s23	6s46	9n22	0n12			
S 2	14 41	4 25	4 28	18 43	1 20	3 5	1 16	22 48	0 50	21 5	0 51	2 56	2 46	11 47	0 47	20 25	0 23	12 57	17 22	13 27	13 22	6 44	9 21	0 12			
S 3	15 0	0 29	3 47	18 7	1 2	2 41	1 19	22 55	0 51	21 5	0 51	2 55	2 46	11 47	0 47	20 25	0 23	12 57	17 21	13 27	13 20	6 42	9 20	0 12			
M 4	15 19	3n31	2 56	17 27	0 42	2 17	1 22	23 2	0 51	21 4	0 51	2 53	2 46	11 47	0 47	20 26	0 23	12 57	17 21	13 27	13 19	6 40	9 18	0 12			
T 5	15 38	7 26	1 56	16 45	0 22	1 52	1 25	23 8	0 52	21 3	0 51	2 52	2 46	11 47	0 47	20 26	0 23	12 57	17 21	13 27	13 18	6 38	9 17	0 12			
W 6	15 56	11 7	0 49	16 2	0 1	1 28	1 29	23 15	0 52	21 2	0 51	2 51	2 45	11 47	0 47	20 26	0 23	12 57	17 21	13 28	13 17	6 36	9 16	0 12			
T 7	16 14	14 21	0s21	15 18	0n19	1 3	1 31	23 21	0 52	21 1	0 51	2 49	2 45	11 47	0 47	20 26	0 23	12 58	17 21	13 28	13 16	6 34	9 15	0 12			
F 8	16 32	16 57	1 31	14 36	0 39	0 38	1 34	23 26	0 53	21 0	0 51	2 48	2 45	11 47	0 47	20 26	0 23	12 58	17 20	13 27	13 15	6 32	9 14	0 12			
S 9	16 49	18 42	2 38	13 55	0 58	0 13	1 37	23 32	0 53	20 59	0 51	2 47	2 45	11 47	0 46	20 26	0 23	12 58	17 20	13 27	13 14	6 30	9 13	0 12			
S 10	17 6	19 26	3 38	13 18	1 16	0s12	1 40	23 37	0 54	20 58	0 51	2 46	2 45	11 47	0 46	20 26	0 23	12 58	17 20	13 27	13 13	6 28	9 12	0 12			
M11	17 23	19 2	4 26	12 46	1 31	0 37	1 42	23 42	0 54	20 57	0 51	2 45	2 45	11 47	0 46	20 26	0 23	12 58	17 20	13 26	13 12	6 26	9 11	0 11			
T 12	17 40	17 30	4 59	12 19	1 45	1 3	1 44	23 47	0 54	20 55	0 51	2 43	2 44	11 47	0 46	20 26	0 23	12 58	17 19	13 26	13 11	6 24	9 10	0 11			
W13	17 56	14 56	5 15	11 57	1 57	1 28	1 47	23 52	0 55	20 54	0 51	2 42	2 44	11 47	0 46	20 26	0 23	12 58	17 19	13 25	13 10	6 22	9 9	0 11			
T 14	18 12	11 28	5 12	11 41	2 7	1 54	1 49	23 56	0 55	20 53	0 51	2 41	2 44	11 47	0 46	20 26	0 23	12 58	17 19	13 25	13 9	6 20	9 8	0 11			
F 15	18 28	7 20	4 50	11 30	2 15	2 20	1 51	24 0	0 56	20 52	0 51	2 40	2 44	11 47	0 46	20 26	0 23	12 58	17 19	13 25	13 8	6 18	9 7	0 11			
S 16	18 43	2 47	4 11	11 25	2 21	2 45	1 53	24 4	0 56	20 51	0 51	2 39	2 44	11 46	0 46	20 26	0 23	12 58	17 18	13 25	13 7	6 16	9 6	0 11			
S 17	18 58	1s56	3 16	11 26	2 25	3 11	1 54	24 8	0 56	20 50	0 51	2 38	2 43	11 46	0 46	20 26	0 23	12 58	17 18	13 25	13 6	6 14	9 5	0 11			
M18	19 13	6 33	2 9	11 30	2 28	3 37	1 56	24 11	0 57	20 49	0 50	2 37	2 43	11 46	0 46	20 27	0 23	12 58	17 18	13 26	13 4	6 12	9 4	0 11			
T 19	19 27	10 46	0 55	11 39	2 30	4 3	1 58	24 14	0 57	20 47	0 50	2 36	2 43	11 46	0 46	20 27	0 23	12 58	17 18	13 26	13 3	6 10	9 3	0 11			
W20	19 41	14 22	0n21	11 52	2 30	4 29	1 59	24 17	0 57	20 46	0 50	2 36	2 43	11 46	0 46	20 27	0 23	12 58	17 17	13 26	13 2	6 8	9 2	0 11			
T 21	19 54	17 6	1 36	12 8	2 28	4 55	2 0	24 19	0 58	20 45	0 50	2 35	2 43	11 46	0 46	20 27	0 23	12 58	17 17	13 26	13 1	6 6	9 1	0 11			
F 22	20 8	18 49	2 43	12 26	2 26	5 21	2 2	24 21	0 58	20 44	0 50	2 34	2 42	11 45	0 46	20 27	0 23	12 58	17 17	13 25	13 0	6 4	9 0	0 10			
S 23	20 20	19 27	3 40	12 47	2 23	5 47	2 3	24 23	0 58	20 43	0 50	2 33	2 42	11 45	0 46	20 27	0 23	12 58	17 16	13 24	12 59	6 2	8 59	0 10			
S 24	20 33	19 3	4 25	13 10	2 19	6 12	2 4	24 25	0 59	20 41	0 50	2 33	2 42	11 45	0 46	20 27	0 23	12 58	17 16	13 23	12 58	6 0	8 58	0 10			
M25	20 45	17 41	4 55	13 34	2 15	6 38	2 5	24 26	0 59	20 40	0 50	2 32	2 42	11 45	0 46	20 28	0 23	12 58	17 16	13 21	12 57	5 58	8 57	0 10			
T 26	20 57	15 31	5 11	14 0	2 10	7 4	2 6	24 28	0 59	20 39	0 50	2 31	2 41	11 44	0 46	20 28	0 23	12 58	17 15	13 20	12 56	5 56	8 57	0 10			
W27	21 8	12 43	5 12	14 27	2 5	7 30	2 6	24 29	1 0	20 38	0 49	2 31	2 41	11 44	0 46	20 28	0 23	12 58	17 15	13 19	12 55	5 54	8 56	0 10			
T 28	21 19	9 26	5 0	14 54	1 59	7 55	2 7	24 29	1 0	20 36	0 49	2 30	2 41	11 44	0 46	20 28	0 23	12 58	17 15	13 18	12 54	5 52	8 55	0 10			
F 29	21 29	5 47	4 35	15 22	1 53	8 21	2 7	24 30	1 0	20 35	0 49	2 30	2 41	11 43	0 46	20 28	0 23	12 58	17 14	13 17	12 53	5 50	8 54	0 10			
S 30	21s39	1s56	3n58	15s50	1n46	8s46	2n 8	24s30	1s 0	20n34	0s49	2n29	2s40	11s43	0s46	20n28	0s23	12s58	17s14	13s17	12s52	5s48	8n53	0n10			

