



Astrodienst Ephemeris Tables for the year 1985

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 1985
geocentric

JANUARY 1985

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	6 42 21	10 ³⁰ 59	29 ⁴²	17 ⁵⁸	26 ²¹	5 ⁸	21 ²⁷	24 ⁴⁴	15 ²²	1 ²⁹	4 ²²	26 ³⁵	25 ⁸	13 ⁸	4 ⁹	T 1
W 2	6 46 18	11 ³² 08	11 ⁴⁰	18 ⁵¹	27 ²⁸	5 ⁵⁴	21 ⁴¹	24 ⁵⁰	15 ²⁵	1 ³¹	4 ²³	26 ³⁷	25 ⁶	13 ¹⁵	4 ¹¹	W 2
T 3	6 50 14	12 ³³ 17	23 ⁵⁰	19 ⁴⁸	28 ³⁵	6 ⁴⁰	21 ⁵⁵	24 ⁵⁵	15 ²⁹	1 ³⁴	4 ²⁴	26 ³⁸	25 ³	13 ²²	4 ⁴	T 3
F 4	6 54 11	13 ³⁴ 26	6 ¹¹ 15	20 ⁴⁸	29 ⁴²	7 ²⁶	22 ⁹	25 ¹	15 ³²	1 ³⁶	4 ²⁵	26 ³⁷	24 ⁵⁹	13 ²⁸	4 ²	F 4
S 5	6 58 7	14 ³⁵ 35	18 ⁵⁸	21 ⁵¹	0 ⁴⁹	8 ¹²	22 ²³	25 ⁶	15 ³⁵	1 ³⁸	4 ²⁶	26 ³⁵	24 ⁵⁶	13 ³⁵	3 ⁵⁹	S 5
S 6	7 2 4	15 ³⁶ 43	2 ⁵²	22 ⁵⁷	1 ⁵⁵	8 ⁵⁷	22 ³⁷	25 ¹²	15 ³⁹	1 ⁴⁰	4 ²⁸	26 ³⁰	24 ⁵³	13 ⁴²	3 ⁵⁷	S 6
M 7	7 6 1	16 ³⁷ 52	15 ²⁷	24 ⁶	3 ¹	9 ⁴³	22 ⁵¹	25 ¹⁷	15 ⁴²	1 ⁴³	4 ²⁹	26 ²³	24 ⁵⁰	13 ⁴⁸	3 ⁵⁵	M 7
T 8	7 9 57	17 ³⁹ 00	29 ⁹	25 ¹⁷	4 ⁷	10 ²⁹	23 ⁵	25 ²²	15 ⁴⁵	1 ⁴⁵	4 ³⁰	26 ¹⁵	24 ⁴⁷	13 ⁵⁵	3 ⁵²	T 8
W 9	7 13 54	18 ⁴⁰ 08	13 ⁹	26 ³⁰	5 ¹³	11 ¹⁵	23 ¹⁹	25 ²⁸	15 ⁴⁹	1 ⁴⁷	4 ³¹	26 ⁵	24 ⁴³	14 ²	3 ⁵⁰	W 9
T 10	7 17 50	19 ⁴¹ 16	27 ¹⁵	27 ⁴⁴	6 ¹⁸	12 ¹	23 ³³	25 ³³	15 ⁵²	1 ⁴⁹	4 ³²	25 ⁵⁷	24 ⁴⁰	14 ⁹	3 ⁴⁸	T 10
F 11	7 21 47	20 ⁴² 24	11 ²⁸	29 ⁰	7 ²³	12 ⁴⁶	23 ⁴⁷	25 ³⁸	15 ⁵⁵	1 ⁵¹	4 ³³	25 ⁴⁹	24 ³⁷	14 ¹⁵	3 ⁴⁶	F 11
S 12	7 25 43	21 ⁴³ 31	25 ⁴³	0 ¹⁸	8 ²⁸	13 ³²	24 ¹	25 ⁴³	15 ⁵⁸	1 ⁵³	4 ³⁴	25 ⁴⁴	24 ³⁴	14 ²²	3 ⁴⁴	S 12
S 13	7 29 40	22 ⁴⁴ 39	9 ⁵⁶	1 ³⁷	9 ³²	14 ¹⁸	24 ¹⁵	25 ⁴⁸	16 ¹	1 ⁵⁶	4 ³⁴	25 ⁴¹	24 ³¹	14 ²⁹	3 ⁴²	S 13
M14	7 33 36	23 ⁴⁵ 46	24 ⁴	2 ⁵⁸	10 ³⁶	15 ³	24 ³⁰	25 ⁵³	16 ⁴	1 ⁵⁸	4 ³⁵	25 ⁴⁰	24 ²⁸	14 ³⁵	3 ⁴⁰	M14
T 15	7 37 33	24 ⁴⁶ 54	8 ¹¹	4 ¹⁹	11 ⁴⁰	15 ⁴⁹	24 ⁴⁴	25 ⁵⁸	16 ⁷	2 ⁰	4 ³⁶	25 ⁴¹	24 ²⁴	14 ⁴²	3 ³⁹	T 15
W16	7 41 30	25 ⁴⁸ 01	22 ²	5 ⁴²	12 ⁴³	16 ³⁵	24 ⁵⁸	26 ²	16 ¹¹	2 ²	4 ³⁷	25 ⁴¹	24 ²¹	14 ⁴⁹	3 ³⁷	W16
T 17	7 45 26	26 ⁴⁹ 08	5 ⁵¹	7 ⁵	13 ⁴⁶	17 ²⁰	25 ¹²	26 ⁷	16 ¹⁴	2 ⁴	4 ³⁸	25 ⁴¹	24 ¹⁸	14 ⁵⁵	3 ³⁵	T 17
F 18	7 49 23	27 ⁵⁰ 15	19 ³³	8 ³⁰	14 ⁴⁹	18 ⁶	25 ²⁶	26 ¹²	16 ¹⁷	2 ⁶	4 ³⁸	25 ³⁹	24 ¹⁵	15 ²	3 ³⁴	F 18
S 19	7 53 19	28 ⁵¹ 22	3 ⁶	9 ⁵⁵	15 ⁵²	18 ⁵¹	25 ⁴⁰	26 ¹⁶	16 ²⁰	2 ⁸	4 ³⁹	25 ³³	24 ¹²	15 ⁹	3 ³²	S 19
S 20	7 57 16	29 ⁵² 28	16 ²⁹	11 ²¹	16 ⁵⁴	19 ³⁷	25 ⁵⁴	26 ²¹	16 ²²	2 ¹⁰	4 ⁴⁰	25 ²⁵	24 ⁹	15 ¹⁵	3 ³¹	S 20
M21	8 1 12	0 ⁵³ 34	29 ³⁹	12 ⁴⁸	17 ⁵⁶	20 ²³	26 ⁸	26 ²⁵	16 ²⁵	2 ¹²	4 ⁴⁰	25 ¹⁵	24 ⁵	15 ²²	3 ²⁹	M21
T 22	8 5 9	1 ⁵⁴ 38	12 ³⁶	14 ¹⁵	18 ⁵⁷	21 ⁸	26 ²²	26 ²⁹	16 ²⁸	2 ¹⁵	4 ⁴¹	25 ²	24 ²	15 ²⁹	3 ²⁸	T 22
W23	8 9 5	2 ⁵⁵ 42	25 ¹⁷	15 ⁴⁴	19 ⁵⁸	21 ⁵⁴	26 ³⁶	26 ³³	16 ³¹	2 ¹⁷	4 ⁴¹	24 ⁵⁰	23 ⁵⁹	15 ³⁵	3 ²⁷	W23
T 24	8 13 2	3 ⁵⁶ 45	7 ⁴⁴	17 ¹³	20 ⁵⁸	22 ³⁹	26 ⁵⁰	26 ³⁸	16 ³⁴	2 ¹⁹	4 ⁴²	24 ³⁸	23 ⁵⁶	15 ⁴²	3 ²⁵	T 24
F 25	8 16 59	4 ⁵⁷ 48	19 ⁵⁶	18 ⁴²	21 ⁵⁸	23 ²⁵	27 ⁴	26 ⁴²	16 ³⁷	2 ²¹	4 ⁴²	24 ²⁷	23 ⁵³	15 ⁴⁹	3 ²⁴	F 25
S 26	8 20 55	5 ⁵⁸ 49	1 ⁵⁷	20 ¹³	22 ⁵⁸	24 ¹⁰	27 ¹⁸	26 ⁴⁶	16 ³⁹	2 ²³	4 ⁴³	24 ¹⁹	23 ⁴⁹	15 ⁵⁵	3 ²³	S 26
S 27	8 24 52	6 ⁵⁹ 49	13 ⁴⁹	21 ⁴⁴	23 ⁵⁷	24 ⁵⁵	27 ³²	26 ⁴⁹	16 ⁴²	2 ²⁴	4 ⁴³	24 ¹⁴	23 ⁴⁶	16 ²	3 ²²	S 27
M28	8 28 48	8 ⁰ 048	25 ³⁸	23 ¹⁶	24 ⁵⁶	25 ⁴¹	27 ⁴⁶	26 ⁵³	16 ⁴⁵	2 ²⁶	4 ⁴³	24 ¹²	23 ⁴³	16 ⁹	3 ²¹	M28
T 29	8 32 45	9 ¹ 445	7 ⁸ 27	24 ⁴⁸	25 ⁵⁴	26 ²⁶	28 ⁰	26 ⁵⁷	16 ⁴⁷	2 ²⁸	4 ⁴⁴	24 ¹¹	23 ⁴⁰	16 ¹⁵	3 ²⁰	T 29
W30	8 36 41	10 ² 242	19 ²³	26 ²¹	26 ⁵¹	27 ¹²	28 ¹⁴	27 ¹	16 ⁵⁰	2 ³⁰	4 ⁴⁴	24 ¹¹	23 ³⁷	16 ²²	3 ²⁰	W30
T 31	8 40 38	11 ³ 3'37	1 ¹¹ 32	27 ⁵⁵	27 ⁴⁸	27 ⁵⁷	28 ²⁸	27 ¹¹	16 ⁵²	2 ³²	4 ⁴⁴	24 ¹¹	23 ³⁴	16 ²⁹	3 ¹⁹	T 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23s 2	9n10	2s21	20s42	2n12	14s13	1s35	10s31	0s57	21s59	0s15	16s56	2n 4	22s38	0s 0	22s19	1n 7	2n38	16n33	19n24	19n 3	2n 1	16n36	4s27
W 2	22 57	14 4	1 20	20 55	2 4	13 47	1 31	10 13	0 57	21 57	0 15	16 58	2 5	22 39	0 0	22 19	1 7	2 38	16 33	19 24	19 3	2 4	16 36	4 27
T 3	22 51	18 29	0 15	21 8	1 55	13 20	1 28	9 56	0 56	21 55	0 15	16 59	2 5	22 39	0 0	22 19	1 7	2 39	16 34	19 24	19 2	2 7	16 35	4 27
F 4	22 45	22 12	0n52	21 21	1 46	12 53	1 24	9 38	0 55	21 52	0 15	17 0	2 5	22 40	0 0	22 19	1 7	2 39	16 34	19 24	19 1	2 10	16 35	4 27
S 5	22 39	24 56	1 58	21 34	1 38	12 26	1 20	9 20	0 54	21 50	0 15	17 1	2 5	22 40	0 0	22 19	1 7	2 39	16 35	19 24	19 0	2 13	16 35	4 27
S 6	22 32	26 24	2 59	21 47	1 29	11 59	1 16	9 2	0 53	21 48	0 16	17 3	2 5	22 40	0 0	22 19	1 7	2 39	16 35	19 22	18 59	2 17	16 34	4 27
M 7	22 24	26 23	3 52	21 59	1 20	11 31	1 12	8 44	0 52	21 46	0 16	17 4	2 5	22 41	0 0	22 19	1 7	2 39	16 36	19 21	18 59	2 20	16 34	4 27
T 8	22 17	24 46	4 33	22 11	1 11	11 4	1 8	8 25	0 51	21 43	0 16	17 5	2 5	22 41	0 0	22 19	1 7	2 39	16 36	19 19	18 58	2 23	16 34	4 26
W 9	22 8	21 38	4 58	22 22	1 2	10 36	1 4	8 7	0 50	21 41	0 16	17 6	2 5	22 41	0 0	22 19	1 7	2 39	16 37	19 17	18 57	2 26	16 34	4 26
T 10	22 0	17 12	5 6	22 32	0 53	10 8	1 0	7 49	0 49	21 39	0 16	17 7	2 6	22 42	0 0	22 19	1 7	2 40	16 37	19 15	18 56	2 29	16 33	4 26
F 11	21 51	11 48	4 54	22 42	0 45	9 39	0 55	7 31	0 48	21 37	0 16	17 8	2 6	22 42	0 0	22 19	1 7	2 40	16 38	19 13	18 56	2 33	16 33	4 26
S 12	21 41	5 45	4 25	22 51	0 36	9 11	0 50	7 12	0 47	21 34	0 16	17 9	2 6	22 42	0 0	22 19	1 7	2 40	16 38	19 12	18 55	2 36	16 33	4 26
S 13	21 31	0s34	3 40	22 59	0 27	8 42	0 46	6 54	0 46	21 32	0 16	17 10	2 6	22 43	0 0	22 19	1 7	2 40	16 39	19 11	18 54	2 39	16 33	4 26
M14	21 21	6 51	2 41	23 5	0 19	8 13	0 41	6 35	0 45	21 29	0 16	17 11	2 6	22 43	0 0	22 19	1 7	2 40	16 40	19 11	18 53	2 42	16 32	4 26
T 15	21 10	12 45	1 33	23 11	0 11	7 44	0 36	6 17	0 45	21 27	0 16	17 12	2 6	22 43	0 0	22 19	1 7	2 41	16 40	19 11	18 52	2 45	16 32	4 25
W16	20 59	17 58	0 20	23 16	0 3	7 15	0 30	5 58	0 44	21 25	0 16	17 13	2 6	22 44	0 0	22 19	1 7	2 41	16 41	19 11	18 52	2 49	16 32	4 25
T 17	20 48	22 10	0s54	23 20	0s 5	6 46	0 25	5 40	0 43	21 22	0 17	17 14	2 6	22 44	0 0	22 19	1 7	2 41	16 41	19 11	18 51	2 52	16 32	4 25
F 18	20 36	25 5	2 4	23 23	0 13	6 17	0 20	5 21	0 42	21 20	0 17	17 15	2 7	22 44	0 0	22 19	1 7	2 41	16 42	19 10	18 50	2 55	16 32	4 25
S 19	20 24	26 30	3 5	23 25	0 20	5 47	0 14	5 2	0 41	21 17	0 17	17 16	2 7	22 45	0 0	22 19	1 7	2 42	16 42	19 9	18 49	2 58	16 32	4 25
S 20	20 11	26 20	3 56	23 25	0 28	5 18	0 8	4 43	0 40	21 15	0 17	17 17	2 7	22 45	0 0	22 19	1 7	2 42	16 43	19 7	18 49	3 1	16 32	4 25
M21	19 58	24 40	4 33	23 24	0 35	4 49	0 2	4 25	0 39	21 12	0 17	17 18	2 7	22 45	0 0	22 19	1 7	2 42	16 43	19 5	18 48	3 5	16 32	4 24
T 22	19 44	21 44	4 55	23 22	0 42	4 19	0n 4	4 6	0 38	21 10	0 17	17 19	2 7	22 46	0 0	22 19	1 7	2 43	16 44	19 2	18 47	3 8	16 31	4 24
W23	19 30	17 50	5 2	23 19	0 48	3 50	0 10	3 47	0 37	21 7	0 17	17 19	2 7	22 46	0 0	22 19	1 7	2 43	16 44	18 59	18 46	3 11	16 31	4 24
T 24	19 16	13 13	4 54	23 15	0 55	3 20	0 16	3 28	0 36	21 4	0 17	17 20	2 8	22 46	0 0	22 18	1 7	2 44	16 45	18 56	18 45	3 14	16 31	4 24
F 25	19 2	8 10	4 33	23 9	1 1	2 51	0 22	3 10	0 35	21 2	0 17	17 21	2 8	22 46	0 0	22 18	1 7	2 44	16 46	18 53	18 45	3 17	16 31	4 24
S 26	18 47	2 54	4 0	23 2	1 7	2 21	0 29	2 51	0 35	20 59	0 17	17 22	2 8	22 47	0 0	22 18	1 7	2 44	16 46	18 51	18 44	3 21	16 31	4 24
S 27	18 32	2n26	3 17	22 53	1 13	1 52	0 35	2 32	0 34	20 57	0 18	17 22	2 8	22 47	0 0	22 18	1 7	2 45	16 47	18 50	18 43	3 24	16 31	4 23
M28	18 16	7 39	2 25	22 44	1 19	1 22	0 42	2 13	0 33	20 54	0 18	17 23	2 8	22 47	0 0	22 18	1 7	2 45	16 47	18 49	18 42	3 27	16 31	4 23
T 29	18 0	12 37	1 28	22 33	1 24	0 53	0 49	1 54	0 32	20 51	0 18	17 24	2 8	22 48	0 0	22 18	1 7	2 46	16 48	18 49	18 42	3 30	16 31	4 23
W30	17 44	17 10	0 25	22 20	1 29	0 54	0 56	1 35	0 31	20 49	0 18	17 24	2 9	22 48	0 0	22 18	1 7	2 46	16 48	18 49	18 41	3 33	16 31	4 23
T 31	17s27	21n 6	0n39	22s 7	1s34	0n 5	1n 3	1s17	0s30	20s46	0s18	17s25	2n 9	22s48	0s 0	22s18	1n 7	2n46	16n49	18n49	18n40	3n37	16n31	4s23

ASTRODIENST EPHEMERIS for the year 1985
geocentric

FEBRUARY 1985

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8 44 34	12♈ 4'32	13♏ 5'57	29♏ 2'39	28♏ 4'45	28♏ 4'42	28♏ 4'42	27♏ 8	16♏ 5'55	2♏ 3'34	4♏ 4'44	24♏ R10	23♏ 3'30	16♏ 3'35	3♏ R18	F 1
S 2	8 48 31	13° 5'24	26° 4'45	1♏ 5	29° 4'40	29° 2'27	28° 5'56	27° 1'11	16° 5'57	2° 3'36	4° 4'45	24♏ 6	23° 2'27	16° 4'42	3♏ 1'18	S 2
S 3	8 52 28	14° 6'16	9♏ 5'57	2° 4'1	0♏ 3'36	0♏ 1'13	29° 1'10	27° 1'14	17° 0	2° 3'38	4° 4'45	23° 5'59	23° 2'24	16° 4'49	3° 1'17	S 3
M 4	8 56 24	15° 7'06	23° 3'36	4° 1'17	1° 3'0	0° 5'58	29° 2'23	27° 1'17	17° 2	2° 3'39	4° 4'45	23° 5'50	23° 2'21	16° 5'55	3° 1'17	M 4
T 5	9 0 21	16° 7'55	7♏ 2'38	5° 5'4	2° 2'24	1° 4'3	29° 3'27	27° 2'20	17° 4	2° 4'1	4° 4'45	23° 3'39	23° 1'18	17° 2	3° 1'16	T 5
W 6	9 4 17	17° 8'43	22° 1	7° 3'2	3° 1'17	2° 2'28	29° 5'1	27° 2'23	17° 7	2° 4'3	4° 4'45	23° 2'26	23° 1'15	17° 9	3° 1'16	W 6
T 7	9 8 14	18° 9'30	6♏ 3'37	9° 1'1	4° 1'10	3° 1'13	0♏ 5	27° 2'26	17° 9	2° 4'5	4° 4'45	23° 1'14	23° 1'11	17° 1'15	3° 1'16	T 7
F 8	9 12 10	19° 10'15	21° 1'19	10° 5'1	5° 2	3° 5'58	0° 1'19	27° 2'29	17° 1'11	2° 4'6	4° 4'45	23° 4	23° 8	17° 2'22	3° 1'16	F 8
S 9	9 16 7	20° 10'59	6♏ 0	12° 3'1	5° 5'3	4° 4'3	0° 3'2	27° 3'2	17° 1'13	2° 4'8	4° 4'45	22° 5'6	23° 5	17° 2'29	3° 1'15	S 9
S 10	9 20 3	21° 11'42	20° 3'2	14° 1'13	6° 4'3	5° 2'8	0° 4'6	27° 3'4	17° 1'15	2° 5'0	4° 4'45	22° 5'1	23° 2	17° 3'35	3° D15	S 10
M 11	9 24 0	22° 12'24	4♏ 5'52	15° 5'55	7° 3'2	6° 1'3	1° 0	27° 3'7	17° 1'17	2° 5'1	4° 4'44	22° 4'49	22° 5'59	17° 4'42	3° 1'16	M 11
T 12	9 27 57	23° 13'05	18° 5'57	17° 3'37	8° 2'1	6° 5'58	1° 1'3	27° 3'9	17° 1'19	2° 5'3	4° 4'44	22° 4'49	22° 5'55	17° 4'49	3° 1'16	T 12
W 13	9 31 53	24° 13'45	2♏ 4'47	19° 2'1	9° 8	7° 4'3	1° 2'27	27° 4'2	17° 2'1	2° 5'5	4° 4'44	22° 4'49	22° 5'52	17° 5'55	3° 1'16	W 13
T 14	9 35 50	25° 14'24	16° 2'22	21° 6	9° 5'55	8° 2'8	1° 4'0	27° 4'4	17° 2'3	2° 5'6	4° 4'44	22° 4'48	22° 4'49	18° 2	3° 1'16	T 14
F 15	9 39 46	26° 15'02	29° 4'45	22° 5'1	10° 4'1	9° 1'2	1° 5'4	27° 4'6	17° 2'5	2° 5'8	4° 4'3	22° 4'44	22° 4'46	18° 9	3° 1'16	F 15
S 16	9 43 43	27° 15'39	12♏ 5'56	24° 3'7	11° 2'6	9° 5'7	2° 7	27° 4'8	17° 2'7	2° 5'9	4° 4'3	22° 3'38	22° 4'3	18° 1'15	3° 1'17	S 16
S 17	9 47 39	28° 16'14	25° 5'55	26° 2'5	12° 9	10° 4'2	2° 2'1	27° 5'0	17° 2'9	3° 1	4° 4'3	22° 2'29	22° 4'0	18° 2'22	3° 1'17	S 17
M 18	9 51 36	29° 16'48	8♏ 4'44	28° 1'3	12° 5'2	11° 2'7	2° 3'4	27° 5'2	17° 3'1	3° 2	4° 4'2	22° 1'17	22° 3'6	18° 2'29	3° 1'18	M 18
T 19	9 55 32	0♏ 1'21	21° 2'22	0♏ 1	13° 3'3	12° 1'1	2° 4'7	27° 5'4	17° 3'2	3° 4	4° 4'2	22° 4	22° 3'3	18° 3'5	3° 1'18	T 19
W 20	9 59 29	1° 17'52	3♏ 4'8	1° 5'1	14° 1'4	12° 5'6	3° 0	27° 5'5	17° 3'4	3° 5	4° 4'1	21° 4'9	22° 3'0	18° 4'2	3° 1'19	W 20
T 21	10 3 26	2° 18'21	16° 4	3° 4'2	14° 5'3	13° 4'0	3° 1'4	27° 5'7	17° 3'5	3° 7	4° 4'1	21° 3'6	22° 2'27	18° 4'9	3° 2'0	T 21
F 22	10 7 22	3° 18'48	28° 9	5° 3'3	15° 3'1	14° 2'5	3° 2'7	27° 5'8	17° 3'7	3° 8	4° 4'0	21° 2'4	22° 2'4	18° 5'6	3° 2'1	F 22
S 23	10 11 19	4° 19'14	10♏ 5	7° 2'5	16° 8	15° 9	3° 4'0	28° 0	17° 3'8	3° 9	4° 4'0	21° 1'4	22° 2'1	19° 2	3° 2'2	S 23
S 24	10 15 15	5° 19'38	21° 5'55	9° 1'8	16° 4'3	15° 5'4	3° 5'3	28° 1	17° 4'0	3° 1'1	4° 3'9	21° 8	22° 1'7	19° 9	3° 2'3	S 24
M 25	10 19 12	6° 20'00	3♏ 4'2	11° 1'1	17° 1'7	16° 3'8	4° 6	28° 2	17° 4'1	3° 1'2	4° 3'9	21° 4	22° 1'4	19° 1'5	3° 2'4	M 25
T 26	10 23 8	7° 20'20	13° 5	17° 4'9	17° 2'3	4° 1'9	28° 3	17° 4'3	3° 1'3	4° 3'8	21° 3	22° 1'1	19° 2'2	3° 2'5	T 26	
W 27	10 27 5	8° 20'39	27° 2'4	14° 5'9	18° 2'0	18° 7	4° 3'2	28° 4	17° 4'4	3° 1'4	4° 3'7	21° D 3	22° 8	19° 2'9	3° 2'6	W 27
T 28	10 31 1	9♏ 20'55	9♏ 3'0	16♏ 5'3	18♏ 4'9	18♏ 5'1	4♏ 4'5	28♏ 5	17♏ 4'5	3♏ 1'5	4♏ 3'6	21° R 3	22♏ 5	19♏ 3'6	3♏ 2'7	T 28

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑	♒	♓	♈	♉		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
F 1	17s11	24n11	1n43	21s51	1s38	0n34	1n10	0s58	0s29	20s43	0s18	17s26	2n 9	22s48	0s 0	22s18	1n 7	2n47	16n49	18n49	18n39	3n40	16n32	4s22
S 2	16 53	26 7	2 43	21 35	1 42	1 3	1 18	0 39	0 28	20 40	0 18	17 26	2 9	22 49	0 0	22 18	1 7	2 47	16 50	18 48	18 38	3 43	16 32	4 22
S 3	16 36	26 40	3 37	21 17	1 46	1 32	1 25	0 20	0 28	20 38	0 18	17 27	2 9	22 49	0 0	22 18	1 7	2 48	16 50	18 46	18 38	3 46	16 32	4 22
M 4	16 18	25 39	4 20	20 58	1 50	2 1	1 33	0 1	0 27	20 35	0 18	17 27	2 9	22 49	0 0	22 18	1 7	2 48	16 51	18 44	18 37	3 49	16 32	4 22
T 5	16 0	23 1	4 49	20 37	1 53	2 29	1 40	0n17	0 26	20 32	0 18	17 28	2 10	22 49	0 0	22 18	1 7	2 49	16 52	18 41	18 36	3 53	16 32	4 22
W 6	15 42	18 54	5 0	20 15	1 56	2 58	1 48	0 36	0 25	20 29	0 19	17 28	2 10	22 50	0 0	22 18	1 7	2 49	16 52	18 38	18 35	3 56	16 32	4 21
T 7	15 23	13 36	4 52	19 52	1 58	3 26	1 56	0 55	0 24	20 26	0 19	17 29	2 10	22 50	0 0	22 18	1 7	2 50	16 53	18 35	18 34	3 59	16 32	4 21
F 8	15 5	7 30	4 25	19 27	2 0	3 54	2 4	1 13	0 23	20 24	0 19	17 29	2 10	22 50	0 0	22 18	1 7	2 50	16 53	18 33	18 34	4 2	16 32	4 21
S 9	14 46	0 59	3 40	19 0	2 2	4 21	2 12	1 32	0 22	20 21	0 19	17 30	2 10	22 50	0 0	22 18	1 7	2 51	16 54	18 31	18 33	4 5	16 33	4 21
S 10	14 26	5s32	2 42	18 32	2 4	4 49	2 20	1 51	0 22	20 18	0 19	17 30	2 10	22 50	0 0	22 18	1 7	2 51	16 54	18 29	18 32	4 9	16 33	4 20
M 11	14 7	11 41	1 33	18 3	2 5	5 16	2 29	2 9	0 21	20 15	0 19	17 31	2 11	22 51	0 0	22 18	1 7	2 52	16 55	18 29	18 31	4 12	16 33	4 20
T 12	13 47	17 8	0 20	17 33	2 5	5 43	2 37	2 28	0 20	20 12	0 19	17 31	2 11	22 51	0 1	22 18	1 7	2 53	16 55	18 29	18 30	4 15	16 33	4 20
W 13	13 27	21 35	0s52	17 1	2 6	6 10	2 46	2 46	0 19	20 9	0 19	17 31	2 11	22 51	0 1	22 17	1 7	2 53	16 56	18 29	18 30	4 18	16 34	4 20
T 14	13 7	24 45	2 1	16 27	2 6	6 36	2 54	3 5	0 18	20 6	0 19	17 32	2 11	22 51	0 1	22 17	1 7	2 54	16 56	18 28	18 29	4 21	16 34	4 20
F 15	12 46	26 28	3 2	15 52	2 5	7 2	3 3	3 23	0 17	20 4	0 20	17 32	2 11	22 51	0 1	22 17	1 7	2 54	16 57	18 28	18 28	4 25	16 34	4 19
S 16	12 25	26 39	3 52	15 16	2 4	7 28	3 12	3 41	0 16	20 1	0 20	17 32	2 12	22 52	0 1	22 17	1 7	2 55	16 57	18 26	18 27	4 28	16 34	4 19
S 17	12 5	25 22	4 29	14 38	2 2	7 53	3 21	4 0	0 16	19 58	0 20	17 32	2 12	22 52	0 1	22 17	1 7	2 56	16 58	18 24	18 26	4 31	16 35	4 19
M 18	11 44	22 46	4 52	13 59	2 0	8 18	3 30	4 18	0 15	19 55	0 20	17 33	2 12	22 52	0 1	22 17	1 7	2 56	16 59	18 21	18 26	4 34	16 35	4 19
T 19	11 22	19 7	5 0	13 18	1 58	8 43	3 39	4 36	0 14	19 52	0 20	17 33	2 12	22 52	0 1	22 17	1 7	2 57	16 59	18 17	18 25	4 37	16 35	4 19
W 20	11 1	14 40	4 53	12 36	1 55	9 7	3 48	4 54	0 13	19 49	0 20	17 33	2 12	22 52	0 1	22 17	1 7	2 57	17 0	18 13	18 24	4 41	16 36	4 18
T 21	10 39	9 42	4 33	11 53	1 51	9 30	3 57	5 12	0 12	19 46	0 20	17 33	2 12	22 52	0 1	22 17	1 7	2 58	17 0	18 10	18 23	4 44	16 36	4 18
F 22	10 18	4 26	4 1	11 8	1 47	9 54	4 6	5 30	0 12	19 43	0 20	17 33	2 13	22 53	0 1	22 17	1 7	2 59	17 1	18 7	18 22	4 47	16 36	4 18
S 23	9 56	0n57	3 19	10 22	1 42	10 17	4 16	5 48	0 11	19 40	0 21	17 33	2 13	22 53	0 1	22 17	1 7	2 59	17 1	18 4	18 21	4 50	16 37	4 18
S 24	9 34	6 15	2 28	9 35	1 37	10 39	4 25	6 6	0 10	19 37	0 21	17 34	2 13	22 53	0 1	22 17	1 7	3 0	17 2	18 3	18 21	4 53	16 37	4 18
M 25	9 11	11 20	1 31	8 47	1 31	11 1	4 35	6 24	0 9	19 34	0 21	17 34	2 13	22 53	0 1	22 17	1 7	3 1	17 2	18 2	18 20	4 57	16 38	4 17
T 26	8 49	16 1	0 29	7 57	1 25	11 22	4 44	6 42	0 8	19 31	0 21	17 34	2 13	22 53	0 1	22 17	1 8	3 1	17 2	18 1	18 19	5 0	16 38	4 17
W 27	8 27	20 8	0n34	7 7	1 18	11 43	4 54	6 59	0 8	19 28	0 21	17 34	2 14	22 53	0 1	22 17	1 8	3 2	17 3	18 1	18 18	5 3	16 38	4 17
T 28	8s 4	23n28	1n37	6s15	1s10	12n 3	5n 3	7n17	0s 7	19s25	0s21	17s34	2n14	22s53	0s 1	22s17	1n 8	3n 3	17n 3	18n 1	18n17	5n 6	16n39	4s17

ASTRODIENST EPHEMERIS for the year 1985
geocentric

MARCH 1985

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 34 58	10 ^h 21'09"	21 ^h 11'52"	18 ^h 47'	19 ^h 17'	19 ^h 36'	4 ^h 58'	28 ^h 11' 5	17 ^h 46'	3 ^h 17'	4 ^h 36'	21 ^h R 2	22 ^h 1	19 ^h 42'	3 ^h 11'29"	F 1
S 2	10 38 55	11 ^h 21'22"	4 ^h 37'	20 ^h 42'	19 ^h 43'	20 ^h 20'	5 ^h 10'	28 ^h 6	17 ^h 47'	3 ^h 18'	4 ^h 35'	21 ^h 0	21 ^h 58'	19 ^h 49'	3 ^h 30'	S 2
S 3	10 42 51	12 ^h 21'32"	17 ^h 48'	22 ^h 35'	20 ^h 7	21 ^h 4	5 ^h 23'	28 ^h 7	17 ^h 49'	3 ^h 19'	4 ^h 34'	20 ^h 55'	21 ^h 55'	19 ^h 56'	3 ^h 31'	S 3
M 4	10 46 48	13 ^h 21'40"	1 ^h 28'	24 ^h 28'	20 ^h 29'	21 ^h 48'	5 ^h 36'	28 ^h 7	17 ^h 50'	3 ^h 20'	4 ^h 33'	20 ^h 48'	21 ^h 52'	20 ^h 2	3 ^h 33'	M 4
T 5	10 50 44	14 ^h 21'46"	15 ^h 36'	26 ^h 20'	20 ^h 50'	22 ^h 32'	5 ^h 48'	28 ^h 7	17 ^h 51'	3 ^h 21'	4 ^h 32'	20 ^h 39'	21 ^h 49'	20 ^h 9	3 ^h 34'	T 5
W 6	10 54 41	15 ^h 21'50"	0 ^h 11'	28 ^h 11'	21 ^h 8	23 ^h 16'	6 ^h 1	28 ^h 7	17 ^h 52'	3 ^h 22'	4 ^h 31'	20 ^h 29'	21 ^h 46'	20 ^h 16'	3 ^h 36'	W 6
T 7	10 58 37	16 ^h 21'52"	15 ^h 4	29 ^h 59'	21 ^h 25'	24 ^h 0	6 ^h 13'	28 ^h 8	17 ^h 52'	3 ^h 23'	4 ^h 30'	20 ^h 18'	21 ^h 42'	20 ^h 22'	3 ^h 38'	T 7
F 8	11 2 34	17 ^h 21'52"	0 ^h 8	1 ^h 46'	21 ^h 39'	24 ^h 44'	6 ^h 25'	28 ^h R 8	17 ^h 53'	3 ^h 24'	4 ^h 29'	20 ^h 10'	21 ^h 39'	20 ^h 29'	3 ^h 40'	F 8
S 9	11 6 30	18 ^h 21'51"	15 ^h 12'	3 ^h 30'	21 ^h 51'	25 ^h 28'	6 ^h 37'	28 ^h 7	17 ^h 54'	3 ^h 25'	4 ^h 28'	20 ^h 3	21 ^h 36'	20 ^h 35'	3 ^h 41'	S 9
S 10	11 10 27	19 ^h 21'47"	0 ^h 11'	5 ^h 10'	22 ^h 1	26 ^h 12'	6 ^h 50'	28 ^h 7	17 ^h 55'	3 ^h 26'	4 ^h 27'	19 ^h 59'	21 ^h 33'	20 ^h 42'	3 ^h 43'	S 10
M 11	11 14 24	20 ^h 21'42"	14 ^h 48'	6 ^h 47'	22 ^h 9	26 ^h 56'	7 ^h 2	28 ^h 7	17 ^h 55'	3 ^h 27'	4 ^h 26'	19 ^h D57	21 ^h 30'	20 ^h 49'	3 ^h 45'	M 11
T 12	11 18 20	21 ^h 21'35"	29 ^h 8	8 ^h 19'	22 ^h 14'	27 ^h 40'	7 ^h 14'	28 ^h 7	17 ^h 56'	3 ^h 27'	4 ^h 25'	19 ^h 58'	21 ^h 26'	20 ^h 55'	3 ^h 47'	T 12
W 13	11 22 17	22 ^h 21'27"	13 ^h 6	9 ^h 47'	22 ^h 17'	28 ^h 23'	7 ^h 26'	28 ^h 6	17 ^h 57'	3 ^h 28'	4 ^h 24'	19 ^h 58'	21 ^h 23'	21 ^h 2	3 ^h 49'	W 13
T 14	11 26 13	23 ^h 21'17"	26 ^h 42'	11 ^h 10'	22 ^h R18	29 ^h 7	7 ^h 38'	28 ^h 5	17 ^h 57'	3 ^h 29'	4 ^h 23'	19 ^h R59	21 ^h 20'	21 ^h 9	3 ^h 52'	T 14
F 15	11 30 10	24 ^h 21'06"	9 ^h 35'	12 ^h 26'	22 ^h 16'	29 ^h 51'	7 ^h 50'	28 ^h 5	17 ^h 57'	3 ^h 30'	4 ^h 22'	19 ^h 57'	21 ^h 17'	21 ^h 15'	3 ^h 54'	F 15
S 16	11 34 6	25 ^h 20'52"	22 ^h 58'	13 ^h 37'	22 ^h 12'	0 ^h 34'	8 ^h 1	28 ^h 4	17 ^h 58'	3 ^h 30'	4 ^h 21'	19 ^h 54'	21 ^h 14'	21 ^h 22'	3 ^h 56'	S 16
S 17	11 38 3	26 ^h 20'37"	5 ^h 43'	14 ^h 41'	22 ^h 5	1 ^h 18'	8 ^h 13'	28 ^h 3	17 ^h 58'	3 ^h 31'	4 ^h 19'	19 ^h 48'	21 ^h 11'	21 ^h 29'	3 ^h 58'	S 17
M 18	11 41 59	27 ^h 20'20"	18 ^h 15'	15 ^h 37'	21 ^h 56'	2 ^h 1	8 ^h 24'	28 ^h 2	17 ^h 59'	3 ^h 32'	4 ^h 18'	19 ^h 40'	21 ^h 7	21 ^h 35'	4 ^h 1	M 18
T 19	11 45 56	28 ^h 20'01"	0 ^h 36'	16 ^h 27'	21 ^h 44'	2 ^h 45'	8 ^h 36'	28 ^h 1	17 ^h 59'	3 ^h 32'	4 ^h 17'	19 ^h 31'	21 ^h 4	21 ^h 42'	4 ^h 3	T 19
W 20	11 49 53	29 ^h 19'41"	12 ^h 47'	17 ^h 9	21 ^h 30'	3 ^h 28'	8 ^h 47'	28 ^h 0	17 ^h 59'	3 ^h 33'	4 ^h 16'	19 ^h 21'	21 ^h 1	21 ^h 49'	4 ^h 6	W 20
T 21	11 53 49	0 ^h 19'18"	24 ^h 51'	17 ^h 43'	21 ^h 13'	4 ^h 12'	8 ^h 59'	27 ^h 58'	17 ^h 59'	3 ^h 33'	4 ^h 14'	19 ^h 11'	20 ^h 58'	21 ^h 55'	4 ^h 8	T 21
F 22	11 57 46	1 ^h 18'53"	6 ^h 47'	18 ^h 9	20 ^h 54'	4 ^h 55'	9 ^h 10'	27 ^h 57'	17 ^h 59'	3 ^h 34'	4 ^h 13'	19 ^h 3	20 ^h 55'	22 ^h 2	4 ^h 11'	F 22
S 23	12 1 42	2 ^h 18'27"	18 ^h 38'	18 ^h 27'	20 ^h 33'	5 ^h 38'	9 ^h 21'	27 ^h 56'	17 ^h R59	3 ^h 34'	4 ^h 12'	18 ^h 57'	20 ^h 52'	22 ^h 9	4 ^h 14'	S 23
S 24	12 5 39	3 ^h 17'58"	0 ^h 26'	18 ^h 37'	20 ^h 9	6 ^h 22'	9 ^h 32'	27 ^h 54'	17 ^h 59'	3 ^h 35'	4 ^h 10'	18 ^h 52'	20 ^h 48'	22 ^h 15'	4 ^h 17'	S 24
M 25	12 9 35	4 ^h 17'27"	12 ^h 13'	18 ^h R39	19 ^h 44'	7 ^h 5	9 ^h 43'	27 ^h 52'	17 ^h 59'	3 ^h 35'	4 ^h 9	18 ^h 50'	20 ^h 45'	22 ^h 22'	4 ^h 19'	M 25
T 26	12 13 32	5 ^h 16'54"	24 ^h 2	18 ^h 34'	19 ^h 16'	7 ^h 48'	9 ^h 54'	27 ^h 50'	17 ^h 59'	3 ^h 35'	4 ^h 7	18 ^h D50	20 ^h 42'	22 ^h 29'	4 ^h 22'	T 26
W 27	12 17 28	6 ^h 16'19"	5 ^h 11'58"	18 ^h 21'	18 ^h 46'	8 ^h 31'	10 ^h 4	27 ^h 49'	17 ^h 59'	3 ^h 36'	4 ^h 6	18 ^h 51'	20 ^h 39'	22 ^h 35'	4 ^h 25'	W 27
T 28	12 21 25	7 ^h 15'41"	18 ^h 3	18 ^h 2	18 ^h 15'	9 ^h 14'	10 ^h 15'	27 ^h 47'	17 ^h 58'	3 ^h 36'	4 ^h 5	18 ^h 53'	20 ^h 36'	22 ^h 42'	4 ^h 28'	T 28
F 29	12 25 21	8 ^h 15'01"	0 ^h 24'	17 ^h 35'	17 ^h 42'	9 ^h 57'	10 ^h 26'	27 ^h 45'	17 ^h 58'	3 ^h 36'	4 ^h 3	18 ^h 54'	20 ^h 32'	22 ^h 49'	4 ^h 31'	F 29
S 30	12 29 18	9 ^h 14'19"	13 ^h 5	17 ^h 4	17 ^h 7	10 ^h 40'	10 ^h 36'	27 ^h 42'	17 ^h 58'	3 ^h 36'	4 ^h 2	18 ^h R54	20 ^h 29'	22 ^h 55'	4 ^h 34'	S 30
S 31	12 33 15	10 ^h 13'35"	26 ^h 11'	16 ^h 27'	16 ^h 32'	11 ^h 23'	10 ^h 46'	27 ^h 40'	17 ^h 57'	3 ^h 37'	4 ^h 11'	18 ^h 53'	20 ^h 26'	23 ^h 2	4 ^h 11'37"	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	7s41	25n48	2n36	5s23	1s 2	12n22	5n13	7n34	0s 6	19s22	0s21	17s34	2n14	22s53	0s 1	22s17	1n 8	3n 3	17n 4	18n 1	18n17	5n 9	16n39	4s16	
S 2	7 18	26 52	3 30	4 30	0 53	12 41	5 22	7 52	0 5	19 19	0 21	17 34	2 14	22 54	0 1	22 17	1 8	3 4	17 4	18 1	18 16	5 13	16 40	4 16	
S 3	6 55	26 28	4 14	3 37	0 44	12 59	5 32	8 9	0 4	19 16	0 22	17 33	2 14	22 54	0 1	22 16	1 8	3 5	17 5	17 59	18 15	5 16	16 40	4 16	
M 4	6 32	24 29	4 46	2 43	0 34	13 16	5 41	8 26	0 4	19 14	0 22	17 33	2 15	22 54	0 1	22 16	1 8	3 5	17 5	17 57	18 14	5 19	16 41	4 16	
T 5	6 9	20 58	5 2	1 48	0 23	13 32	5 50	8 44	0 3	19 11	0 22	17 33	2 15	22 54	0 1	22 16	1 8	3 6	17 6	17 55	18 13	5 22	16 41	4 16	
W 6	5 46	16 4	4 59	0 54	0 12	13 48	6 0	9 1	0 2	19 8	0 22	17 33	2 15	22 54	0 1	22 16	1 8	3 7	17 6	17 52	18 12	5 25	16 42	4 15	
T 7	5 23	10 7	4 36	0 0	0 14	3	6 9	9 18	0 1	19 5	0 22	17 33	2 15	22 54	0 1	22 16	1 8	3 7	17 7	17 50	18 12	5 28	16 42	4 15	
F 8	5 0	3 31	3 53	0n53	0n12	14 16	6 18	9 34	0 1	19 2	0 22	17 33	2 15	22 54	0 1	22 16	1 8	3 8	17 7	17 47	18 11	5 32	16 43	4 15	
S 9	4 36	3s19	2 54	1 46	0 24	14 29	6 27	9 51	0n 0	18 59	0 22	17 33	2 15	22 54	0 1	22 16	1 8	3 9	17 7	17 45	18 10	5 35	16 43	4 15	
S 10	4 13	9 54	1 44	2 37	0 37	14 41	6 36	10 8	0 1	18 56	0 22	17 32	2 16	22 54	0 1	22 16	1 8	3 10	17 8	17 44	18 9	5 38	16 44	4 15	
M 11	3 49	15 50	0 28	3 28	0 50	14 52	6 44	10 24	0 2	18 53	0 23	17 32	2 16	22 54	0 1	22 16	1 8	3 10	17 8	17 44	18 8	5 41	16 44	4 14	
T 12	3 26	20 46	0s49	4 16	1 4	15 2	6 53	10 41	0 2	18 50	0 23	17 32	2 16	22 54	0 1	22 16	1 8	3 11	17 9	17 44	18 8	5 44	16 45	4 14	
W 13	3 2	24 22	2 1	5 3	1 17	15 11	7 1	10 57	0 3	18 47	0 23	17 32	2 16	22 55	0 1	22 16	1 8	3 12	17 9	17 44	18 7	5 48	16 45	4 14	
T 14	2 38	26 28	3 4	5 48	1 30	15 18	7 9	11 13	0 4	18 44	0 23	17 31	2 16	22 55	0 1	22 16	1 8	3 12	17 9	17 44	18 6	5 51	16 46	4 14	
F 15	2 15	26 58	3 55	6 30	1 43	15 25	7 16	11 29	0 4	18 41	0 23	17 31	2 17	22 55	0 1	22 16	1 8	3 13	17 10	17 44	18 5	5 54	16 47	4 14	
S 16	1 51	25 58	4 33	7 9	1 56	15 30	7 24	11 45	0 5	18 38	0 23	17 31	2 17	22 55	0 1	22 16	1 8	3 14	17 10	17 43	18 4	5 57	16 47	4 14	
S 17	1 27	23 38	4 57	7 45	2 8	15 33	7 31	12 1	0 6	18 36	0 23	17 30	2 17	22 55	0 1	22 16	1 8	3 15	17 10	17 41	18 3	6 0	16 48	4 13	
M 18	1 4	20 12	5 6	8 18	2 20	15 36	7 37	12 17	0 7	18 33	0 24	17 30	2 17	22 55	0 1	22 16	1 8	3 15	17 11	17 39	18 3	6 4	16 48	4 13	
T 19	0 40	15 56	5 0	8 48	2 32	15 37	7 43	12 33	0 7	18 30	0 24	17 29	2 17	22 55	0 1	22 16	1 8	3 16	17 11	17 37	18 2	6 7	16 49	4 13	
W 20	0 16	11 5	4 41	9 14	2 42	15 36	7 48	12 48	0 8	18 27	0 24	17 29	2 17	22 55	0 1	22 16	1 8	3 17	17 11	17 34	18 1	6 10	16 50	4 13	
T 21	0n 8	5 52	4 9	9 36	2 52	15 35	7 53	13 3	0 9	18 24	0 24	17 29	2 18	22 55	0 1	22 16	1 8	3 17	17 12	17 31	18 0	6 13	16 50	4 13	
F 22	0 31	0 29	3 27	9 54	3 0	15 31	7 57	13 19	0 9	18 21	0 24	17 28	2 18	22 55	0 1	22 16	1 8	3 18	17 12	17 29	17 59	6 16	16 51	4 12	
S 23	0 55	4n54	2 36	10 8	3 8	15 26	8 1	13 34	0 10	18 19	0 24	17 28	2 18	22 55	0 1	22 16	1 8	3 19	17 12	17 27	17 58	6 20	16 52	4 12	
S 24	1 19	10 6	1 38	10 17	3 14	15 20	8 4	13 49	0 11	18 16	0 24	17 27	2 18	22 55	0 1	22 15	1 8	3 20	17 13	17 26	17 58	6 23	16 52	4 12	
M 25	1 42	14 56	0 36	10 23	3 19	15 12	8 6	14 4	0 11	18 13	0 25	17 27	2 18	22 55	0 1	22 15	1 8	3 20	17 13	17 26	17 57	6 26	16 53	4 12	
T 26	2 6	19 14	0n28	10 24	3 23	15 3	8 8	14 18	0 12	18 10	0 25	17 26	2 18	22 55	0 1	22 15	1 8	3 21	17 13	17 26	17 56	6 29	16 54	4 12	
W 27	2 29	22 49	1 32	10 21	3 24	14 52	8 8	14 33	0 13	18 7	0 25	17 25	2 19	22 55	0 1	22 15	1 8	3 22	17 14	17 26	17 55	6 32	16 54	4 12	
T 28	2 53	25 26	2 32	10 13	3 25	14 40	8 8	14 47	0 13	18 5	0 25	17 25	2 19	22 55	0 1	22 15	1 8	3 22	17 14	17 26	17 54	6 35	16 55	4 11	
F 29	3 16	26 53	3 27	10 2	3 23	14 26	8 7	15 2	0 14	18 2	0 25	17 24	2 19	22 55	0 1	22 15	1 8	3 23	17 14	17 27	17 53	6 39	16 56	4 11	
S 30	3 40	27 0	4 13	9 47	3 20	14 11	8 5	15 16	0 15	17 59	0 25	17 24	2 19	22 55	0 1	22 15	1 8	3 24	17 14	17 27	17 52	6 42	16 56	4 11	
S 31	4n 3	25n37	4n47	9n28	3n15	13n54	8n 2	15n30	0n15	17s57	0s26	17s23	2n19	22s55	0s 1	22s15	1n 8	3n25	17n15	17n27	17n52	6n45	16n57	4s11	

ASTRODIENST EPHEMERIS for the year 1985
geocentric

APRIL 1985

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Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	12 37 11	11°12'48	9°44'	15°R45	15°R55	12°R 6	10°R57	27°R38	17°R57	3°R37	3°R59	18°R50	20°R23	23°V 9	4°II40	M 1
T 2	12 41 8	12°11'59	23°46'	15°V 1	15°V18	12°49	11° 7	27°M36	17°R57	3°37	3°M57	18°R46	20°20	23°15	4°44	T 2
W 3	12 45 4	13°11'07	8°M16	14°14	14°40	13°32	11°17	27°33	17°56	3°37	3°56	18°41	20°17	23°22	4°47	W 3
T 4	12 49 1	14°10'13	23° 9	13°26	14° 2	14°15	11°27	27°30	17°55	3°37	3°54	18°36	20°13	23°29	4°50	T 4
F 5	12 52 57	15° 9'17	8°A18	12°37	13°24	14°57	11°36	27°28	17°55	3°R37	3°52	18°31	20°10	23°35	4°54	F 5
S 6	12 56 54	16° 8'19	23°33	11°49	12°47	15°40	11°46	27°25	17°54	3°37	3°51	18°28	20° 7	23°42	4°57	S 6
S 7	13 0 50	17° 7'19	8°M44	11° 2	12°10	16°23	11°56	27°22	17°53	3°37	3°49	18°26	20° 4	23°49	5° 0	S 7
M 8	13 4 47	18° 6'17	23°41	10°17	11°33	17° 5	12° 5	27°19	17°52	3°37	3°48	18°D26	20° 1	23°55	5° 4	M 8
T 9	13 8 44	19° 5'13	8°V18	9°36	10°58	17°48	12°14	27°16	17°52	3°37	3°46	18°27	19°58	24° 2	5° 7	T 9
W10	13 12 40	20° 4'08	22°31	8°58	10°24	18°30	12°23	27°13	17°51	3°37	3°44	18°28	19°54	24° 9	5°11	W10
T 11	13 16 37	21° 3'01	6°Z18	8°24	9°52	19°13	12°33	27°10	17°50	3°36	3°43	18°30	19°51	24°15	5°15	T 11
F 12	13 20 33	22° 1'52	19°39	7°55	9°21	19°55	12°41	27° 7	17°49	3°36	3°41	18°R30	19°48	24°22	5°18	F 12
S 13	13 24 30	23° 0'42	2°R39	7°30	8°52	20°37	12°50	27° 4	17°48	3°36	3°39	18°30	19°45	24°29	5°22	S 13
S 14	13 28 26	23°59'29	15°18	7°11	8°25	21°20	12°59	27° 0	17°47	3°36	3°38	18°28	19°42	24°35	5°26	S 14
M15	13 32 23	24°58'15	27°42	6°56	8° 0	22° 2	13° 8	26°57	17°46	3°35	3°36	18°26	19°38	24°42	5°30	M15
T 16	13 36 19	25°56'59	9°R53	6°47	7°38	22°44	13°16	26°54	17°44	3°35	3°34	18°23	19°35	24°49	5°33	T 16
W17	13 40 16	26°55'42	21°54	6°D44	7°17	23°26	13°24	26°50	17°43	3°35	3°33	18°19	19°32	24°55	5°37	W17
T 18	13 44 13	27°54'22	3°V49	6°45	6°59	24° 8	13°33	26°46	17°42	3°34	3°31	18°16	19°29	25° 2	5°41	T 18
F 19	13 48 9	28°53'01	15°39	6°51	6°43	24°51	13°41	26°43	17°41	3°34	3°29	18°13	19°26	25° 9	5°45	F 19
S 20	13 52 6	29°51'38	27°27	7° 3	6°30	25°33	13°48	26°39	17°39	3°33	3°28	18°10	19°23	25°15	5°49	S 20
S 21	13 56 2	0°R50'13	9°R14	7°19	6°19	26°15	13°56	26°35	17°38	3°33	3°26	18° 9	19°19	25°22	5°53	S 21
M22	13 59 59	1°48'46	21° 4	7°40	6°11	26°57	14° 4	26°31	17°36	3°32	3°24	18°D 9	19°16	25°29	5°57	M22
T 23	14 3 55	2°47'17	2°II59	8° 6	6° 5	27°38	14°11	26°28	17°35	3°32	3°23	18°10	19°13	25°35	6° 1	T 23
W24	14 7 52	3°45'46	15° 1	8°35	6° 1	28°20	14°19	26°24	17°33	3°31	3°21	18°11	19°10	25°42	6° 5	W24
T 25	14 11 48	4°44'13	27°13	9° 9	6°D 0	29° 2	14°26	26°20	17°32	3°31	3°19	18°12	19° 7	25°49	6°10	T 25
F 26	14 15 45	5°42'38	9°R38	9°47	6° 1	29°44	14°33	26°16	17°30	3°30	3°18	18°13	19° 3	25°55	6°14	F 26
S 27	14 19 42	6°41'01	22°20	10°29	6° 5	0°II26	14°40	26°12	17°29	3°29	3°16	18°14	19° 0	26° 2	6°18	S 27
S 28	14 23 38	7°39'21	5°R23	11°14	6°10	1° 7	14°46	26° 7	17°27	3°29	3°14	18°R14	18°57	26° 9	6°22	S 28
M29	14 27 35	8°37'40	18°50	12° 3	6°18	1°49	14°53	26° 3	17°25	3°28	3°12	18°14	18°54	26°15	6°26	M29
T 30	14 31 31	9°R35'57	2°M41	12°V55	6°V28	2°II31	15°R 0	25°M59	17°R24	3°R27	3°M11	18°R14	18°R51	26°V22	6°II31	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	decl	lat	decl	lat	decl	lat
M 1	4n26	22n45	5n 7	9n 6	3n 8	13n36	7n58	15n44	0n16	17s54	0s26	17s22	2n19	22s55	0s 1	22s15	1n 8	3n25	17n15	17n26	17n51	6n48	16n58	4s11									
T 2	4 49	18 28	5 10	8 41	3 0	13 18	7 54	15 57	0 17	17 51	0 26	17 22	2 19	22 55	0 1	22 15	1 9	3 26	17 15	17 25	17 50	6 51	16 58	4 11									
W 3	5 12	13 0	4 54	8 14	2 50	12 58	7 48	16 11	0 17	17 49	0 26	17 21	2 20	22 55	0 1	22 15	1 9	3 27	17 15	17 23	17 49	6 55	16 59	4 11									
T 4	5 35	6 39	4 17	7 44	2 39	12 37	7 41	16 24	0 18	17 46	0 26	17 20	2 20	22 55	0 1	22 15	1 9	3 27	17 15	17 22	17 48	6 58	17 0	4 10									
F 5	5 58	0s12	3 22	7 14	2 26	12 15	7 34	16 37	0 19	17 44	0 26	17 20	2 20	22 55	0 1	22 15	1 9	3 28	17 16	17 20	17 47	7 1	17 1	4 10									
S 6	6 21	7 6	2 12	6 42	2 12	11 53	7 26	16 50	0 19	17 41	0 27	17 19	2 20	22 55	0 1	22 15	1 9	3 29	17 16	17 20	17 47	7 4	17 1	4 10									
S 7	6 44	13 35	0 53	6 10	1 58	11 30	7 17	17 3	0 20	17 39	0 27	17 18	2 20	22 55	0 1	22 15	1 9	3 29	17 16	17 19	17 46	7 7	17 2	4 10									
M 8	7 6	19 10	0s29	5 39	1 42	11 7	7 7	17 16	0 21	17 36	0 27	17 17	2 20	22 54	0 1	22 15	1 9	3 30	17 16	17 19	17 45	7 10	17 3	4 10									
T 9	7 28	23 27	1 47	5 8	1 27	10 44	6 57	17 29	0 21	17 34	0 27	17 16	2 20	22 54	0 1	22 15	1 9	3 31	17 16	17 19	17 44	7 14	17 4	4 10									
W10	7 51	26 10	2 56	4 38	1 10	10 20	6 46	17 41	0 22	17 31	0 27	17 16	2 20	22 54	0 1	22 15	1 9	3 31	17 16	17 20	17 43	7 17	17 4	4 10									
T 11	8 13	27 10	3 53	4 9	0 54	9 57	6 34	17 53	0 22	17 29	0 27	17 15	2 21	22 54	0 1	22 15	1 9	3 32	17 16	17 20	17 42	7 20	17 5	4 10									
F 12	8 35	26 33	4 36	3 43	0 37	9 34	6 22	18 5	0 23	17 27	0 28	17 14	2 21	22 54	0 1	22 15	1 9	3 32	17 17	17 20	17 41	7 23	17 6	4 9									
S 13	8 57	24 29	5 2	3 18	0 21	9 11	6 10	18 17	0 24	17 24	0 28	17 13	2 21	22 54	0 1	22 15	1 9	3 33	17 17	17 20	17 41	7 26	17 7	4 9									
S 14	9 19	21 14	5 14	2 56	0 5	8 48	5 57	18 29	0 24	17 22	0 28	17 12	2 21	22 54	0 1	22 15	1 9	3 34	17 17	17 20	17 40	7 30	17 7	4 9									
M15	9 40	17 7	5 10	2 36	0s11	8 26	5 44	18 41	0 25	17 20	0 28	17 11	2 21	22 54	0 1	22 15	1 9	3 34	17 17	17 19	17 39	7 33	17 8	4 9									
T 16	10 2	12 23	4 53	2 18	0 26	8 5	5 30	18 52	0 25	17 18	0 28	17 11	2 21	22 54	0 1	22 15	1 9	3 35	17 17	17 18	17 38	7 36	17 9	4 9									
W17	10 23	7 14	4 22	2 3	0 40	7 44	5 16	19 3	0 26	17 15	0 29	17 10	2 21	22 54	0 1	22 15	1 9	3 35	17 17	17 17	17 37	7 39	17 10	4 9									
T 18	10 44	1 52	3 41	1 51	0 54	7 24	5 2	19 14	0 26	17 13	0 29	17 9	2 21	22 54	0 1	22 15	1 9	3 36	17 17	17 16	17 36	7 42	17 10	4 9									
F 19	11 5	3n33	2 50	1 41	1 8	7 5	4 48	19 25	0 27	17 11	0 29	17 8	2 21	22 53	0 1	22 15	1 9	3 37	17 17	17 15	17 35	7 45	17 11	4 9									
S 20	11 25	8 49	1 52	1 34	1 20	6 47	4 34	19 36	0 28	17 9	0 29	17 7	2 21	22 53	0 1	22 15	1 9	3 37	17 17	17 15	17 35	7 49	17 12	4 9									
S 21	11 46	13 48	0 49	1 30	1 32	6 30	4 20	19 46	0 28	17 7	0 29	17 6	2 22	22 53	0 1	22 15	1 9	3 38	17 17	17 14	17 34	7 52	17 13	4 9									
M22	12 6	18 17	0n16	1 28	1 43	6 13	4 6	19 57	0 29	17 5	0 29	17 5	2 22	22 53	0 1	22 15	1 9	3 38	17 17	17 14	17 33	7 55	17 13	4 9									
T 23	12 26	22 5	1 21	1 28	1 54	5 58	3 52	20 7	0 29	17 3	0 30	17 4	2 22	22 53	0 1	22 15	1 9	3 39	17 17	17 14	17 32	7 58	17 14	4 8									
W24	12 46	24 58	2 23	1 31	2 4	5 44	3 39	20 17	0 30	17 1	0 30	17 3	2 22	22 53	0 1	22 15	1 9	3 39	17 17	17 15	17 31	8 1	17 15	4 8									
T 25	13 6	26 45	3 20	1 36	2 12	5 31	3 25	20 26	0 30	16 59	0 30	17 2	2 22	22 53	0 1	22 15	1 9	3 40	17 17	17 15	17 30	8 4	17 16	4 8									
F 26	13 26	27 13	4 8	1 43	2 21	5 19	3 11	20 36	0 31	16 57	0 30	17 1	2 22	22 53	0 1	22 15	1 9	3 40	17 17	17 15	17 29	8 8	17 16	4 8									
S 27	13 45	26 17	4 46	1 53	2 28	5 8	2 58	20 45	0 31	16 55	0 30	17 0	2 22	22 52	0 1	22 15	1 9	3 41	17 17	17 16	17 28	8 11	17 17	4 8									
S 28	14 4	23 55	5 9	2 4	2 35	4 59	2 45	20 55	0 32	16 54	0 31	16 59	2 22	22 52	0 1	22 15	1 9	3 41	17 17	17 16	17 28	8 14	17 18	4 8									
M29	14 23	20 12	5 17	2 18	2 40	4 50	2 32	21 4	0 33	16 52	0 31	16 58	2 22	22 52	0 1	22 15	1 9	3 42	17 17	17 16	17 27	8 17	17 19	4 8									
T 30	14n41	15n17	5n 7	2n33	2s46	4n42	2n19	21n12	0n33	16s50	0s31	16s57	2n22	22s52	0s 1	22s15	1n 9	3n42	17n17	17n16	17n26	8n20	17n19	4s 8									

ASTRODIENST EPHEMERIS for the year 1985

geocentric

MAY 1985

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	14 35 28	10♈34'11	16♍58	13♊50	6♊41	3♊12	15♈6	25°R55	17°R22	3°R26	3°R 9	18°R13	18♈48	26♊28	6♊35	W 1
T 2	14 39 24	11°32'23	1♈38	14°48	6°55	3°54	15°12	25♍51	17♊20	3♈26	3♍7	18♈12	18°44	26°35	6°39	T 2
F 3	14 43 21	12°30'34	16°35	15°49	7°11	4°35	15°18	25°46	17°18	3°25	3°6	18°11	18°41	26°42	6°44	F 3
S 4	14 47 17	13°28'42	1♍43	16°53	7°29	5°17	15°24	25°42	17°16	3°24	3°4	18°11	18°38	26°48	6°48	S 4
S 5	14 51 14	14°26'49	16°53	18°0	7°49	5°58	15°29	25°38	17°14	3°23	3°2	18°D11	18°35	26°55	6°52	S 5
M 6	14 55 11	15°24'54	1♊55	19°9	8°11	6°39	15°35	25°33	17°12	3°22	3°1	18°11	18°32	27°2	6°57	M 6
T 7	14 59 7	16°22'58	16°41	20°21	8°35	7°21	15°40	25°29	17°10	3°21	2°59	18°11	18°29	27°8	7°1	T 7
W 8	15 3 4	17°21'00	1♈4	21°36	9°0	8°2	15°45	25°25	17°8	3°20	2°58	18°11	18°25	27°15	7°6	W 8
T 9	15 7 0	18°19'01	15°2	22°53	9°27	8°43	15°50	25°20	17°6	3°19	2°56	18°R11	18°22	27°22	7°10	T 9
F 10	15 10 57	19°17'01	28°33	24°12	9°56	9°24	15°55	25°16	17°4	3°18	2°54	18°11	18°19	27°28	7°15	F 10
S 11	15 14 53	20°14'59	11♈38	25°34	10°26	10°6	16°0	25°11	17°2	3°17	2°53	18°11	18°16	27°35	7°19	S 11
S 12	15 18 50	21°12'55	24°20	26°57	10°57	10°47	16°4	25°7	17°0	3°16	2°51	18°D11	18°13	27°42	7°24	S 12
M13	15 22 46	22°10'51	6♈42	28°24	11°30	11°28	16°9	25°2	16°58	3°15	2°50	18°11	18°9	27°48	7°28	M13
T 14	15 26 43	23°8'45	18°50	29°52	12°4	12°9	16°13	24°58	16°56	3°14	2°48	18°12	18°6	27°55	7°33	T 14
W15	15 30 40	24°6'38	0♊47	1♈22	12°40	12°50	16°17	24°53	16°54	3°13	2°46	18°12	18°3	28°2	7°38	W15
T 16	15 34 36	25°4'29	12°37	2°55	13°16	13°31	16°21	24°49	16°51	3°11	2°45	18°13	18°0	28°8	7°42	T 16
F 17	15 38 33	26°2'20	24°24	4°30	13°54	14°12	16°24	24°44	16°49	3°10	2°43	18°14	17°57	28°15	7°47	F 17
S 18	15 42 29	27°0'09	6♈12	6°7	14°33	14°52	16°28	24°40	16°47	3°9	2°42	18°14	17°54	28°22	7°51	S 18
S 19	15 46 26	27°57'56	18°3	7°46	15°13	15°33	16°31	24°35	16°45	3°8	2°40	18°R14	17°50	28°28	7°56	S 19
M20	15 50 22	28°55'43	29°39	9°28	15°54	16°14	16°34	24°31	16°42	3°7	2°39	18°14	17°47	28°35	8°1	M20
T 21	15 54 19	29°53'28	12♊4	11°11	16°37	16°55	16°37	24°26	16°40	3°5	2°37	18°13	17°44	28°42	8°5	T 21
W22	15 58 15	0♊51'12	24°18	12°57	17°20	17°36	16°40	24°22	16°38	3°4	2°36	18°12	17°41	28°48	8°10	W22
T 23	16 2 12	1°48'54	6♈43	14°45	18°4	18°16	16°42	24°17	16°35	3°3	2°34	18°10	17°38	28°55	8°15	T 23
F 24	16 6 9	2°46'35	19°21	16°35	18°49	18°57	16°44	24°13	16°33	3°1	2°33	18°8	17°35	29°2	8°19	F 24
S 25	16 10 5	3°44'15	2♊13	18°27	19°34	19°38	16°47	24°9	16°31	3°0	2°32	18°6	17°31	29°8	8°24	S 25
S 26	16 14 2	4°41'53	15°22	20°21	20°21	20°18	16°49	24°4	16°28	2°59	2°30	18°5	17°28	29°15	8°29	S 26
M27	16 17 58	5°39'29	28°48	22°17	21°8	20°59	16°50	24°0	16°26	2°57	2°29	18°4	17°25	29°22	8°34	M27
T 28	16 21 55	6°37'04	12♍34	24°16	21°57	21°39	16°52	23°56	16°23	2°56	2°28	18°D 4	17°22	29°28	8°38	T 28
W29	16 25 51	7°34'37	26°38	26°16	22°45	22°20	16°53	23°51	16°21	2°54	2°26	18°4	17°19	29°35	8°43	W29
T 30	16 29 48	8°32'09	11♈0	28°18	23°35	23°0	16°55	23°47	16°19	2°53	2°25	18°6	17°15	29°41	8°48	T 30
F 31	16 33 44	9♊29'40	25♈37	0♊22	24°Y25	23♊40	16♈56	23♍43	16♊16	2♈52	2♍24	18♈7	17♈12	29°Y48	8♊52	F 31

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	
W 1	15n 0	9n25 4n38	2n51 2s50	4n36 2n 7	21n21 0n34	16s48 0s31	16s56 2n22	22s52 0s 1	22s15 1n 9	3n43 17n17	17n15 17n25	8n23 17n20	4s 8			
T 2	15 18	2 53 3 51	3 10 2 54	4 30 1 55	21 29 0 34	16 47 0 31	16 55 2 22	22 52 0 1	22 15 1 9	3 43 17 17	17 15 17 24	8 27 17 21	4 8			
F 3	15 36	3s57 2 47	3 30 2 57	4 26 1 43	21 38 0 35	16 45 0 32	16 54 2 22	22 52 0 1	22 15 1 9	3 44 17 16	17 15 17 23	8 30 17 22	4 8			
S 4	15 53	10 40 1 30	3 52 2 59	4 22 1 31	21 46 0 35	16 44 0 32	16 53 2 22	22 51 0 1	22 15 1 9	3 44 17 16	17 15 17 22	8 33 17 22	4 8			
S 5	16 11	16 46 0 7	4 16 3 1	4 20 1 20	21 53 0 36	16 42 0 32	16 52 2 22	22 51 0 1	22 15 1 9	3 44 17 16	17 15 17 21	8 36 17 23	4 8			
M 6	16 28	21 47 1s16	4 41 3 2	4 18 1 9	22 1 0 36	16 41 0 32	16 51 2 22	22 51 0 1	22 15 1 9	3 45 17 16	17 15 17 21	8 39 17 24	4 8			
T 7	16 44	25 18 2 32	5 8 3 3	4 18 0 58	22 8 0 37	16 40 0 33	16 50 2 22	22 51 0 1	22 15 1 9	3 45 17 16	17 15 17 20	8 42 17 25	4 8			
W 8	17 1	27 3 3 37	5 36 3 2	4 18 0 48	22 16 0 37	16 38 0 33	16 49 2 22	22 51 0 1	22 15 1 9	3 46 17 16	17 15 17 19	8 45 17 25	4 8			
T 9	17 17	27 0 4 26	6 5 3 1	4 19 0 37	22 23 0 38	16 37 0 33	16 48 2 22	22 50 0 1	22 15 1 9	3 46 17 16	17 15 17 18	8 49 17 26	4 8			
F 10	17 35	25 20 4 59	6 36 3 0	4 21 0 28	22 29 0 39	16 36 0 33	16 47 2 22	22 50 0 1	22 15 1 10	3 46 17 15	17 15 17 17	8 52 17 27	4 8			
S 11	17 49	22 21 5 16	7 7 2 58	4 24 0 18	22 36 0 39	16 34 0 33	16 46 2 22	22 50 0 1	22 15 1 10	3 47 17 15	17 15 17 16	8 55 17 28	4 8			
S 12	18 4	18 22 5 16	7 40 2 55	4 28 0 9	22 42 0 39	16 33 0 34	16 45 2 22	22 50 0 1	22 15 1 10	3 47 17 15	17 15 17 15	8 58 17 28	4 8			
M13	18 19	13 43 5 1	8 13 2 52	4 33 0s 0	22 49 0 39	16 32 0 34	16 44 2 22	22 50 0 1	22 15 1 10	3 47 17 15	17 15 17 14	9 1 17 29	4 8			
T 14	18 34	8 37 4 34	8 48 2 48	4 38 0 9	22 55 0 40	16 31 0 34	16 43 2 22	22 50 0 1	22 15 1 10	3 47 17 15	17 15 17 14	9 4 17 30	4 8			
W15	18 48	3 16 3 54	9 23 2 44	4 44 0 18	23 0 0 40	16 30 0 34	16 42 2 22	22 49 0 1	22 15 1 10	3 48 17 14	17 15 17 13	9 7 17 30	4 8			
T 16	19 2	2n 9 3 5	10 0 2 39	4 51 0 26	23 6 0 41	16 29 0 34	16 41 2 22	22 49 0 1	22 15 1 10	3 48 17 14	17 15 17 12	9 11 17 31	4 8			
F 17	19 16	7 28 2 9	10 37 2 34	4 58 0 34	23 11 0 41	16 28 0 35	16 40 2 22	22 49 0 1	22 15 1 10	3 48 17 14	17 16 17 11	9 14 17 32	4 8			
S 18	19 29	12 33 1 6	11 14 2 28	5 6 0 41	23 17 0 42	16 28 0 35	16 39 2 22	22 49 0 2	22 15 1 10	3 49 17 14	17 16 17 10	9 17 17 33	4 8			
S 19	19 43	17 12 0 1	11 53 2 21	5 15 0 49	23 22 0 42	16 27 0 35	16 38 2 22	22 48 0 2	22 15 1 10	3 49 17 13	17 16 17 9	9 20 17 33	4 8			
M20	19 55	21 12 1n 5	12 31 2 14	5 24 0 56	23 26 0 43	16 26 0 35	16 37 2 22	22 48 0 2	22 15 1 10	3 49 17 13	17 16 17 8	9 23 17 34	4 8			
T 21	20 8	24 22 2 8	13 11 2 7	5 34 1 3	23 31 0 43	16 25 0 36	16 36 2 22	22 48 0 2	22 15 1 10	3 49 17 13	17 15 17 7	9 26 17 35	4 8			
W22	20 20	26 26 3 7	13 50 1 59	5 44 1 9	23 35 0 44	16 25 0 36	16 35 2 22	22 48 0 2	22 15 1 10	3 49 17 12	17 15 17 6	9 29 17 35	4 8			
T 23	20 32	27 13 3 57	14 30 1 51	5 55 1 16	23 39 0 44	16 24 0 36	16 34 2 21	22 48 0 2	22 15 1 10	3 50 17 12	17 15 17 6	9 33 17 36	4 8			
F 24	20 43	26 37 4 37	15 10 1 42	6 6 1 22	23 43 0 44	16 24 0 36	16 33 2 21	22 47 0 2	22 15 1 10	3 50 17 12	17 14 17 5	9 36 17 37	4 8			
S 25	20 54	24 36 5 4	15 50 1 33	6 18 1 28	23 47 0 45	16 23 0 36	16 32 2 21	22 47 0 2	22 15 1 10	3 50 17 11	17 13 17 4	9 39 17 37	4 8			
S 26	21 5	21 15 5 16	16 30 1 23	6 30 1 34	23 50 0 45	16 23 0 37	16 31 2 21	22 47 0 2	22 15 1 10	3 50 17 11	17 13 17 3	9 42 17 38	4 8			
M27	21 15	16 44 5 10	17 10 1 14	6 43 1 39	23 54 0 46	16 23 0 37	16 30 2 21	22 47 0 2	22 15 1 10	3 50 17 11	17 13 17 2	9 45 17 39	4 8			
T 28	21 25	11 16 4 48	17 49 1 4	6 56 1 44	23 57 0 46	16 22 0 37	16 29 2 21	22 46 0 2	22 15 1 10	3 50 17 10	17 13 17 1	9 48 17 39	4 8			
W29	21 35	5 7 4 7	18 27 0 53	7 10 1 49	24 0 0 46	16 22 0 37	16 28 2 21	22 46 0 2	22 15 1 10	3 50 17 10	17 13 17 0	9 51 17 40	4 9			
T 30	21 44	1s25 3 11	19 5 0 43	7 24 1 54	24 2 0 47	16 22 0 38	16 27 2 21	22 46 0 2	22 15 1 10	3 50 17 10	17 13 16 59	9 54 17 41	4 9			
F 31	21n53	8s 2 2n 1	19n43 0s32	7n38 1s59	24n 5 0n47	16s22 0s38	16s26 2n21	22s46 0s 2	22s15 1n10	3n50 17n 9	17n14 16n58	9n58 17n41	4s 9			

Julian Day Number = 2446186.5, Delta T = 54.52 sec

Ecliptic obliquity = 23°26'35", Nutation = - 0°00'14", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°32

ASTRODIENST EPHEMERIS for the year 1985

geocentric

JUNE 1985

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 37 41	10II27'09	10III26	2II28	25V16	24II21	16~56	23°R38	16°R14	2°R50	2°R23	18°R 8	17°R 9	29V55	8II57	S 1
S 2	16 41 38	11°24'38	25°19	4°35	26° 8	25° 1	16°57	23III34	16°11	2°49	2°21	18°R 8	17° 6	0° 1	9° 2	S 2
M 3	16 45 34	12°22'05	10°10	6°44	27° 0	25°41	16°57	23°30	16° 9	2°47	2°20	18° 7	17° 3	0° 8	9° 7	M 3
T 4	16 49 31	13°19'31	24°50	8°54	27°53	26°22	16°58	23°26	16° 6	2°46	2°19	18° 4	17° 0	0°15	9°11	T 4
W 5	16 53 27	14°16'57	9°13	11° 4	28°46	27° 2	16°R58	23°22	16° 4	2°44	2°18	18° 1	16°56	0°21	9°16	W 5
T 6	16 57 24	15°14'21	23°14	13°16	29°40	27°42	16°58	23°18	16° 1	2°43	2°17	17°57	16°53	0°28	9°21	T 6
F 7	17 1 20	16°11'45	6°49	15°28	0°34	28°22	16°57	23°14	15°59	2°41	2°16	17°53	16°50	0°35	9°25	F 7
S 8	17 5 17	17° 9'08	19°59	17°40	1°29	29° 2	16°57	23°10	15°56	2°40	2°14	17°50	16°47	0°41	9°30	S 8
S 9	17 9 14	18° 6'31	2°45	19°52	2°25	29°42	16°56	23° 6	15°54	2°38	2°13	17°48	16°44	0°48	9°35	S 9
M10	17 13 10	19° 3'53	15°10	22° 3	3°21	0°22	16°55	23° 2	15°51	2°36	2°12	17°D47	16°41	0°55	9°39	M10
T 11	17 17 7	20° 1'14	27°18	24°15	4°17	1° 2	16°54	22°59	15°49	2°35	2°11	17°47	16°37	1° 1	9°44	T 11
W12	17 21 3	20°58'35	9°14	26°25	5°14	1°42	16°53	22°55	15°47	2°33	2°10	17°48	16°34	1° 8	9°49	W12
T 13	17 25 0	21°55'55	21° 4	28°34	6°11	2°22	16°52	22°51	15°44	2°32	2°10	17°50	16°31	1°15	9°53	T 13
F 14	17 28 56	22°53'15	2°51	0°41	7° 9	3° 2	16°50	22°48	15°42	2°30	2° 9	17°51	16°28	1°21	9°58	F 14
S 15	17 32 53	23°50'35	14°41	2°48	8° 7	3°42	16°48	22°44	15°39	2°29	2° 8	17°R52	16°25	1°28	10° 3	S 15
S 16	17 36 49	24°47'54	26°37	4°52	9° 5	4°22	16°46	22°41	15°37	2°27	2° 7	17°52	16°21	1°35	10° 7	S 16
M17	17 40 46	25°45'13	8°42	6°55	10° 4	5° 2	16°44	22°37	15°34	2°25	2° 6	17°50	16°18	1°41	10°12	M17
T 18	17 44 43	26°42'31	20°59	8°56	11° 3	5°41	16°42	22°34	15°32	2°24	2° 5	17°46	16°15	1°48	10°16	T 18
W19	17 48 39	27°39'49	3°29	10°55	12° 3	6°21	16°39	22°31	15°30	2°22	2° 4	17°41	16°12	1°54	10°21	W19
T 20	17 52 36	28°37'06	16°12	12°51	13° 3	7° 1	16°36	22°28	15°27	2°21	2° 4	17°34	16° 9	2° 1	10°26	T 20
F 21	17 56 32	29°34'23	29°10	14°46	14° 3	7°41	16°33	22°24	15°25	2°19	2° 3	17°27	16° 6	2° 8	10°30	F 21
S 22	18 0 29	0°31'39	12°21	16°38	15° 3	8°20	16°30	22°21	15°22	2°17	2° 2	17°20	16° 2	2°14	10°35	S 22
S 23	18 4 25	1°28'54	25°45	18°29	16° 4	9° 0	16°27	22°18	15°20	2°16	2° 2	17°14	15°59	2°21	10°39	S 23
M24	18 8 22	2°26'09	9°12	20°17	17° 5	9°39	16°23	22°15	15°18	2°14	2° 1	17°10	15°56	2°28	10°44	M24
T 25	18 12 18	3°23'23	23° 9	22° 2	18° 7	10°19	16°20	22°13	15°15	2°12	2° 0	17° 8	15°53	2°34	10°48	T 25
W26	18 16 15	4°20'37	7° 8	23°46	19° 8	10°58	16°16	22°10	15°13	2°11	2° 0	17°D 8	15°50	2°41	10°53	W26
T 27	18 20 12	5°17'50	21°18	25°27	20°10	11°38	16°12	22° 7	15°11	2° 9	1°59	17° 8	15°47	2°48	10°57	T 27
F 28	18 24 8	6°15'02	5°37	27° 6	21°12	12°17	16° 8	22° 5	15° 9	2° 8	1°59	17° 9	15°43	2°54	11° 1	F 28
S 29	18 28 5	7°12'14	20° 2	28°43	22°15	12°57	16° 3	22° 2	15° 6	2° 6	1°58	17°R10	15°40	3° 1	11° 6	S 29
S 30	18 32 1	8°29'26	4°32	0°17	23°17	13°36	15°59	22°16	15° 4	2° 4	1°58	17°R 9	15°37	3° 8	11°10	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	14s17	0n42	20n18	0s21	7n52	2 s 3	24n 7	0n48	16s22	0s38	16s25	2n21	22s45	0 s 2	22s15	1n10	3n50	17n 9	17n14	16n57	10n 1	17n42	4 s 9			
S 2	22 9	19 44	0s40	20 53	0 11	8 7	2 7	24 9	0 48	16 22	0 38	16 24	2 20	22 45	0 2	22 15	1 10	3 50	17 9	17 14	16 57	10 4	17 42	4 9			
M 3	22 17	23 56	1 58	21 26	0n 0	8 22	2 11	24 11	0 48	16 22	0 39	16 23	2 20	22 45	0 2	22 15	1 10	3 50	17 8	17 14	16 56	10 7	17 43	4 9			
T 4	22 24	26 29	3 8	21 58	0 11	8 37	2 15	24 12	0 49	16 22	0 39	16 22	2 20	22 45	0 2	22 15	1 10	3 50	17 8	17 13	16 55	10 10	17 44	4 9			
W 5	22 31	27 12	4 5	22 27	0 21	8 53	2 18	24 14	0 49	16 22	0 39	16 21	2 20	22 44	0 2	22 15	1 10	3 50	17 7	17 12	16 54	10 13	17 44	4 9			
T 6	22 38	26 7	4 45	22 55	0 31	9 9	2 21	24 15	0 50	16 23	0 39	16 21	2 20	22 44	0 2	22 15	1 10	3 50	17 7	17 11	16 53	10 16	17 45	4 9			
F 7	22 44	23 32	5 8	23 20	0 41	9 25	2 25	24 16	0 50	16 23	0 40	16 20	2 20	22 44	0 2	22 15	1 10	3 50	17 7	17 10	16 52	10 19	17 45	4 9			
S 8	22 49	19 46	5 13	23 43	0 51	9 41	2 28	24 17	0 50	16 23	0 40	16 19	2 20	22 44	0 2	22 15	1 10	3 50	17 6	17 9	16 51	10 22	17 46	4 9			
S 9	22 55	15 12	5 3	24 3	1 0	9 57	2 30	24 17	0 51	16 24	0 40	16 18	2 19	22 44	0 2	22 15	1 10	3 50	17 6	17 8	16 50	10 26	17 47	4 10			
M10	23 0	10 8	4 39	24 21	1 8	10 14	2 33	24 18	0 51	16 24	0 40	16 17	2 19	22 43	0 2	22 15	1 10	3 50	17 5	17 8	16 49	10 29	17 47	4 10			
T 11	23 4	4 47	4 2	24 35	1 16	10 31	2 35	24 18	0 51	16 25	0 40	16 16	2 19	22 43	0 2	22 15	1 10	3 50	17 5	17 8	16 48	10 32	17 48	4 10			
W12	23 8	0n40	3 16	24 47	1 24	10 47	2 38	24 18	0 52	16 25	0 41	16 16	2 19	22 43	0 2	22 15	1 10	3 50	17 4	17 8	16 48	10 35	17 48	4 10			
T 13	23 12	6 2	2 21	24 57	1 30	11 4	2 40	24 17	0 52	16 26	0 41	16 15	2 19	22 42	0 2	22 15	1 10	3 50	17 4	17 9	16 47	10 38	17 49	4 10			
F 14	23 15	11 12	1 21	25 3	1 36	11 21	2 42	24 17	0 52	16 27	0 41	16 14	2 19	22 42	0 2	22 15	1 10	3 50	17 3	17 9	16 46	10 41	17 49	4 10			
S 15	23 18	15 58	0 17	25 7	1 42	11 38	2 43	24 16	0 53	16 28	0 41	16 13	2 19	22 42	0 2	22 15	1 10	3 49	17 3	17 10	16 45	10 44	17 50	4 10			
S 16	23 20	20 10	0n48	25 7	1 46	11 55	2 45	24 15	0 53	16 28	0 42	16 13	2 18	22 42	0 2	22 15	1 10	3 49	17 2	17 9	16 44	10 47	17 50	4 11			
M17	23 22	23 35	1 51	25 6	1 50	12 12	2 46	24 14	0 54	16 29	0 42	16 12	2 18	22 41	0 2	22 15	1 10	3 49	17 2	17 9	16 43	10 50	17 51	4 11			
T 18	23 24	25 58	2 50	25 1	1 53	12 29	2 48	24 13	0 54	16 30	0 42	16 11	2 18	22 41	0 2	22 15	1 10	3 49	17 1	17 8	16 42	10 54	17 51	4 11			
W19	23 25	27 6	3 42	24 55	1 56	12 47	2 49	24 12	0 54	16 31	0 42	16 11	2 18	22 41	0 2	22 15	1 10	3 49	17 1	17 6	16 41	10 57	17 52	4 11			
T 20	23 26	26 50	4 24	24 46	1 57	13 4	2 50	24 10	0 55	16 32	0 43	16 10	2 18	22 41	0 2	22 16	1 10	3 48	17 0	17 5	16 40	11 0	17 52	4 11			
F 21	23 27	25 7	4 54	24 35	1 58	13 21	2 50	24 8	0 55	16 33	0 43	16 10	2 17	22 41	0 2	22 16	1 10	3 48	17 0	17 3	16 39	11 3	17 53	4 11			
S 22	23 27	22 1	5 8	24 22	1 58	13 38	2 51	24 6	0 55	16 35	0 43	16 9	2 17	22 40	0 2	22 16	1 10	3 48	16 59	17 1	16 38	11 6	17 53	4 12			
S 23	23 26	17 44	5 6	24 6	1 57	13 55	2 52	24 4	0 55	16 36	0 43	16 8	2 17	22 40	0 2	22 16	1 10	3 48	16 59	16 59	16 38	11 9	17 54	4 12			
M24	23 25	12 29	4 46	23 50	1 56	14 11	2 52	24 1	0 56	16 37	0 44	16 8	2 17	22 40	0 2	22 16	1 10	3 47	16 58	16 58	16 37	11 12	17 54	4 12			
T 25	23 24	6 33	4 10	23 31	1 54	14 28	2 52	23 58	0 56	16 38	0 44	16 7	2 17	22 40	0 2	22 16	1 10	3 47	16 58	16 57	16 36	11 15	17 54	4 12			
W26	23 22	0 13	3 19	23 11	1 52	14 45	2 52	23 56	0 56	16 40	0 44	16 7	2 16	22 39	0 2	22 16	1 10	3 47	16 57	16 57	16 35	11 18	17 55	4 12			
T 27	23 20	6s13	2 15	22 50	1 48	15 1	2 52	23 53	0 57	16 41	0 44	16 6	2 16	22 39	0 2	22 16	1 10	3 46	16 57	16 57	16 34	11 21	17 55	4 12			
F 28	23 18	12 25	1 2	22 27	1 44	15 18	2 52	23 49	0 57	16 43	0 44	16 6	2 16	22 39	0 2	22 16	1 10	3 46	16 56	16 58	16 33	11 24	17 56	4 13			
S 29	23 15	18 0	0s16	22 3	1 40	15 34	2 52	23 46	0 57	16 44	0 45	16 6	2 16	22 39	0 2	22 16	1 10	3 46	16 56	16 58	16 32	11 27	17 56	4 13			
S 30	23n11	22s33	1s32	21n38	1n35	15n50	2s52	23n42	0n58	16s46	0s45	16s 5	2n16	22s38	0s 2	22s16	1n10	3n45	16n55	16n57	16n31	11n31	17n56	4s12			

ASTRODIENST EPHEMERIS for the year 1985
geocentric

JULY 1985

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 35 58	9°56' 637	19°00' 0	18°49' 24	14°58' 16	15°54' 15	15°54' 15	15°54' 15	15°54' 15	15°54' 15	15°54' 15	15°54' 15	15°54' 15	15°54' 15	15°54' 15	M 1
T 2	18 39 54	10° 3'48	3°32' 21	3°19' 25	25°24' 14	15°55' 15	15°55' 15	15°55' 15	15°55' 15	15°55' 15	15°55' 15	15°55' 15	15°55' 15	15°55' 15	15°55' 15	T 2
W 3	18 43 51	11° 0'59	17°31' 47	4°47' 26	26°27' 15	15°34' 15	15°34' 15	15°34' 15	15°34' 15	15°34' 15	15°34' 15	15°34' 15	15°34' 15	15°34' 15	15°34' 15	W 3
T 4	18 47 47	11°58'10	1°22' 31	6°12' 27	31°16' 14	15°39' 21	15°39' 21	15°39' 21	15°39' 21	15°39' 21	15°39' 21	15°39' 21	15°39' 21	15°39' 21	15°39' 21	T 4
F 5	18 51 44	12°55'21	14°53' 7	7°34' 28	34°16°53	15°34' 15	15°34' 15	15°34' 15	15°34' 15	15°34' 15	15°34' 15	15°34' 15	15°34' 15	15°34' 15	15°34' 15	F 5
S 6	18 55 41	13°52'32	28° 2	8°55' 29	39°17°32	15°29' 21	15°29' 21	15°29' 21	15°29' 21	15°29' 21	15°29' 21	15°29' 21	15°29' 21	15°29' 21	15°29' 21	S 6
S 7	18 59 37	14°49'44	10°47' 47	10°12' 0	11°43' 18	15°23' 21	15°23' 21	15°23' 21	15°23' 21	15°23' 21	15°23' 21	15°23' 21	15°23' 21	15°23' 21	15°23' 21	S 7
M 8	19 3 34	15°46'55	23°13' 11	1°47' 18	51°15°17	15°17' 21	15°17' 21	15°17' 21	15°17' 21	15°17' 21	15°17' 21	15°17' 21	15°17' 21	15°17' 21	15°17' 21	M 8
T 9	19 7 30	16°44'07	5°22' 12	12°40' 2	52°19°30	15°11' 21	15°11' 21	15°11' 21	15°11' 21	15°11' 21	15°11' 21	15°11' 21	15°11' 21	15°11' 21	15°11' 21	T 9
W10	19 11 27	17°41'20	17°19' 13	13°50' 3	57°20° 9	15° 5	15° 5	15° 5	15° 5	15° 5	15° 5	15° 5	15° 5	15° 5	15° 5	W10
T 11	19 15 23	18°38'32	29° 9	14°58' 5	2° 20°48	14°59' 21	14°59' 21	14°59' 21	14°59' 21	14°59' 21	14°59' 21	14°59' 21	14°59' 21	14°59' 21	14°59' 21	T 11
F 12	19 19 20	19°35'46	10°57' 16	2° 6° 7	21°27' 14	53°21°37	14°40' 21	14°40' 21	14°40' 21	14°40' 21	14°40' 21	14°40' 21	14°40' 21	14°40' 21	14°40' 21	F 12
S 13	19 23 16	20°32'59	22°49' 17	4° 7°13	22° 6	14°47' 21	13°36' 14	13°36' 14	13°36' 14	13°36' 14	13°36' 14	13°36' 14	13°36' 14	13°36' 14	13°36' 14	S 13
S 14	19 27 13	21°30'14	4°11'50	18° 3	8°18	22°45' 14	40°21°35	14°36' 14	14°36' 14	14°36' 14	14°36' 14	14°36' 14	14°36' 14	14°36' 14	14°36' 14	S 14
M15	19 31 10	22°27'29	17° 3	18°58' 9	24°23°24	14°34' 21	14°34' 21	14°34' 21	14°34' 21	14°34' 21	14°34' 21	14°34' 21	14°34' 21	14°34' 21	14°34' 21	M15
T 16	19 35 6	23°24'44	29°31' 19	51°10°30	24° 3	14°27' 21	13°33' 14	13°33' 14	13°33' 14	13°33' 14	13°33' 14	13°33' 14	13°33' 14	13°33' 14	13°33' 14	T 16
W17	19 39 3	24°22'00	12°51' 17	20°40' 11	36°24°42	14°20' 21	13°32' 14	13°32' 14	13°32' 14	13°32' 14	13°32' 14	13°32' 14	13°32' 14	13°32' 14	13°32' 14	W17
T 18	19 42 59	25°19'16	25°21' 21	26°12°43	25°21' 14	13°13' 21	14°29' 13	14°29' 13	14°29' 13	14°29' 13	14°29' 13	14°29' 13	14°29' 13	14°29' 13	14°29' 13	T 18
F 19	19 46 56	26°16'33	8°42' 22	8°13°49	26° 0	14° 6	14°27' 13	14°27' 13	14°27' 13	14°27' 13	14°27' 13	14°27' 13	14°27' 13	14°27' 13	14°27' 13	F 19
S 20	19 50 52	27°13'50	22°17' 22	46°14°56	26°39' 13	59°21°30	14°26' 13	14°26' 13	14°26' 13	14°26' 13	14°26' 13	14°26' 13	14°26' 13	14°26' 13	14°26' 13	S 20
S 21	19 54 49	28°11'07	6°11' 3	23°21' 16	2° 27°18	13°52' 21	29°14°24	13°32' 15	13°32' 15	13°32' 15	13°32' 15	13°32' 15	13°32' 15	13°32' 15	13°32' 15	S 21
M22	19 58 46	29° 8'25	19°59' 23	51°17° 9	27°57' 13	45°21°29	14°23' 13	14°23' 13	14°23' 13	14°23' 13	14°23' 13	14°23' 13	14°23' 13	14°23' 13	14°23' 13	M22
T 23	20 2 42	0°45'43	4°45' 0	24°17' 18	16°28°36	13°37' 21	28°14°21	13°30' 14	13°30' 14	13°30' 14	13°30' 14	13°30' 14	13°30' 14	13°30' 14	13°30' 14	T 23
W24	20 6 39	1° 3'01	18° 5	24°39' 19	23°29°15	13°30' 21	28°14°20	13°28' 14	13°28' 14	13°28' 14	13°28' 14	13°28' 14	13°28' 14	13°28' 14	13°28' 14	W24
T 25	20 10 35	2° 0'20	2°11'12	24°56' 20	31°29°53	13°23' 21	28°14°18	13°27' 14	13°27' 14	13°27' 14	13°27' 14	13°27' 14	13°27' 14	13°27' 14	13°27' 14	T 25
F 26	20 14 32	2°57'39	16°20' 25	9°21°38	0°43'13	15°21°D28	14°17' 12	14°17' 12	14°17' 12	14°17' 12	14°17' 12	14°17' 12	14°17' 12	14°17' 12	14°17' 12	F 26
S 27	20 18 28	3°54'58	0°21'28	25°16' 22	46°1°11	13° 8	21°28' 14	16°12' 13	16°12' 13	16°12' 13	16°12' 13	16°12' 13	16°12' 13	16°12' 13	16°12' 13	S 27
S 28	20 22 25	4°52'18	14°35' 25	19°23°53	1°50' 13	0° 21°28	14°15' 12	14°15' 12	14°15' 12	14°15' 12	14°15' 12	14°15' 12	14°15' 12	14°15' 12	14°15' 12	S 28
M29	20 26 21	5°49'38	28°38' 25	17°25° 1	2°28	12°52' 21	29°14°13	12°22' 14	12°22' 14	12°22' 14	12°22' 14	12°22' 14	12°22' 14	12°22' 14	12°22' 14	M29
T 30	20 30 18	6°46'59	12°34' 25	9°26° 9	3° 7	12°45' 21	29°14°12	12°20' 14	12°20' 14	12°20' 14	12°20' 14	12°20' 14	12°20' 14	12°20' 14	12°20' 14	T 30
W31	20 34 15	7°44'21	26°32' 24	57°27°11	17°34°46	12°37' 21	29°14°11	13°19' 13	13°19' 13	13°19' 13	13°19' 13	13°19' 13	13°19' 13	13°19' 13	13°19' 13	W31

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
M 1	23n 8	25s41	2s43	21n12	1n29	16n 6	2s51	23n38	0n58	16s47	0s45	16s 5	2n15	22s38	0s 2	22s16	1n10	3n45	16n55	16n56	16n30	11n34	17n57	4s13			
T 2	23 4	27 6	3 42	20 45	1 23	16 21	2 50	23 34	0 58	16 49	0 45	16 4	2 15	22 38	0 2	22 16	1 10	3 44	16 54	16 55	16 29	11 37	17 57	4 13			
W 3	22 59	26 42	4 27	20 18	1 16	16 37	2 50	23 30	0 58	16 51	0 46	16 4	2 15	22 38	0 2	22 16	1 10	3 44	16 53	16 53	16 28	11 40	17 58	4 14			
T 4	22 54	24 39	4 55	19 50	1 8	16 52	2 49	23 26	0 59	16 52	0 46	16 4	2 15	22 37	0 2	22 16	1 10	3 44	16 53	16 50	16 27	11 43	17 58	4 14			
F 5	22 49	21 14	5 5	19 21	1 0	17 7	2 48	23 21	0 59	16 54	0 46	16 3	2 14	22 37	0 2	22 16	1 10	3 43	16 52	16 48	16 26	11 46	17 58	4 14			
S 6	22 43	16 50	4 59	18 52	0 52	17 22	2 47	23 16	0 59	16 56	0 46	16 3	2 14	22 37	0 2	22 16	1 10	3 43	16 52	16 45	16 26	11 49	17 59	4 14			
S 7	22 37	11 49	4 38	18 23	0 43	17 36	2 46	23 11	1 0	16 58	0 46	16 3	2 14	22 37	0 2	22 16	1 10	3 42	16 51	16 43	16 25	11 52	17 59	4 15			
M 8	22 31	6 26	4 5	17 53	0 34	17 50	2 44	23 6	1 0	17 0	0 47	16 3	2 14	22 37	0 2	22 16	1 10	3 42	16 51	16 42	16 24	11 55	17 59	4 15			
T 9	22 24	0 56	3 21	17 23	0 24	18 4	2 43	23 1	1 0	17 2	0 47	16 3	2 13	22 36	0 2	22 16	1 10	3 41	16 50	16 41	16 23	11 58	18 0	4 15			
W10	22 16	4n31	2 28	16 54	0 14	18 18	2 41	22 56	1 0	17 4	0 47	16 2	2 13	22 36	0 2	22 16	1 10	3 41	16 49	16 41	16 22	12 1	18 0	4 15			
T 11	22 9	9 46	1 30	16 24	0 3	18 31	2 40	22 50	1 1	17 6	0 47	16 2	2 13	22 36	0 2	22 16	1 10	3 40	16 49	16 41	16 21	12 4	18 0	4 16			
F 12	22 1	14 40	0 28	15 54	0s 8	18 44	2 38	22 44	1 1	17 8	0 47	16 2	2 13	22 36	0 2	22 16	1 10	3 40	16 48	16 41	16 20	12 7	18 0	4 16			
S 13	21 52	19 3	0n35	15 25	0 19	18 57	2 36	22 38	1 1	17 10	0 48	16 2	2 12	22 35	0 2	22 16	1 9	3 39	16 48	16 41	16 19	12 10	18 1	4 16			
S 14	21 43	22 42	1 38	14 56	0 31	19 9	2 35	22 32	1 1	17 12	0 48	16 2	2 12	22 35	0 2	22 16	1 9	3 39	16 47	16 41	16 18	12 13	18 1	4 16			
M15	21 34	25 25	2 37	14 27	0 43	19 21	2 33	22 26	1 2	17 14	0 48	16 2	2 12	22 35	0 2	22 16	1 9	3 38	16 47	16 40	16 17	12 16	18 1	4 17			
T 16	21 25	26 56	3 29	13 59	0 55	19 32	2 31	22 19	1 2	17 16	0 48	16 2	2 12	22 35	0 2	22 17	1 9	3 37	16 46	16 38	16 16	12 19	18 1	4 17			
W17	21 15	27 4	4 12	13 32	1 8	19 44	2 29	22 12	1 2	17 18	0 48	16 2	2 11	22 35	0 2	22 17	1 9	3 37	16 45	16 35	16 15	12 22	18 2	4 17			
T 18	21 5	25 43	4 43	13 5	1 21	19 54	2 26	22 6	1 2	17 20	0 49	16 2	2 11	22 35	0 2	22 17	1 9	3 36	16 45	16 32	16 14	12 25	18 2	4 17			
F 19	20 54	22 54	5 0	12 39	1 34	20 5	2 24	21 59	1 3	17 23	0 49	16 2	2 11	22 34	0 2	22 17	1 9	3 36	16 44	16 29	16 13	12 29	18 2	4 18			
S 20	20 43	18 48	5 0	12 14	1 47	20 15	2 22	21 51	1 3	17 25	0 49	16 2	2 11	22 34	0 2	22 17	1 9	3 35	16 44	16 26	16 13	12 32	18 2	4 18			
S 21	20 32	13 40	4 42	11 50	2 1	20 24	2 19	21 44	1 3	17 27	0 49	16 2	2 10	22 34	0 2	22 17	1 9	3 34	16 43	16 23	16 12	12 35	18 2	4 18			
M22	20 20	7 46	4 8	11 28	2 14	20 33	2 17	21 37	1 3	17 29	0 49	16 2	2 10	22 34	0 2	22 17	1 9	3 34	16 42	16 21	16 11	12 38	18 2	4 19			
T 23	20 8	1 27	3 19	11 6	2 28	20 42	2 14	21 29	1 4	17 32	0 50	16 2	2 10	22 34	0 2	22 17	1 9	3 33	16 42	16 19	16 10	12 41	18 3	4 19			
W24	19 56	4s59	2 17	10 46	2 41	20 50	2 12	21 21	1 4	17 34	0 50	16 3	2 10	22 34	0 2	22 17	1 9	3 32	16 41	16 19	16 9	12 44	18 3	4 19			
T 25	19 43	11 12	1 7	10 28	2 55	20 57	2 9	21 13	1 4	17 36	0 50	16 3	2 9	22 33	0 2	22 17	1 9	3 32	16 41	16 19	16 8	12 47	18 3	4 20			
F 26	19 30	16 51	0s 8	10 12	3 8	21 4	2 7	21 5	1 4	17 39	0 50	16 3	2 9	22 33	0 2	22 17	1 9	3 31	16 40	16 19	16 7	12 50	18 3	4 20			
S 27	19 17	21 35	1 21	9 57	3 21	21 11	2 4	20 57	1 4	17 41	0 50	16 3	2 9	22 33	0 2	22 17	1 9	3 30	16 39	16 19	16 6	12 53	18 3	4 20			
S 28	19 3	25 2	2 30	9 44	3 33	21 17	2 1	20 48	1 5	17 43	0 50	16 4	2 9	22 33	0 2	22 17	1 9	3 29	16 39	16 18	16 5	12 56	18 3	4 20			
M29	18 49	26 55	3 29	9 33	3 45	21 23	1 58	20 40	1 5	17 46	0 51	16 4	2 8	22 33	0 2	22 17	1 9	3 29	16 38	16 16	16 4	12 59	18 3	4 21			
T 30	18 35	27 5	4 15	9 25	3 57	21 28	1 55	20 31	1 5	17 48	0 51	16 4	2 8	22 33	0 2	22 17	1 9	3 28	16 38	16 14	16 3	13 2	18 3	4 21			
W31	18n20	25s34	4s46	9n19	4s 8	21n33	1s52	20n22	1n 5	17s50	0s51	16s 5	2n 8	22s33	0s 2	22s17	1n 9	3n27	16n37	16n11	16n 2	13n 5	18n 4	4s21			

ASTRODIENST EPHEMERIS for the year 1985
geocentric

AUGUST 1985

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 38 11	8♌41'43	9♍54	24°R39	28♊26	4♌24	12°R29	21♍30	14°R10	1°R18	2♍ 2	14°R16	13♌55	6♌40	13♊13	T 1
F 2	20 42 8	9°39'06	23°11	24♌16	29°34	5° 3	12♍21	21°31	14♌9	1♌17	2° 3	14♌4	13°52	6°47	13°16	F 2
S 3	20 46 4	10°36'30	6♌9	23°49	0♌42	5°42	12°14	21°31	14° 8	1°16	2° 3	13°52	13°49	6°54	13°19	S 3
S 4	20 50 1	11°33'55	18°48	23°17	1°51	6°20	12° 6	21°32	14° 7	1°14	2° 4	13°43	13°46	7° 0	13°22	S 4
M 5	20 53 57	12°31'22	1°10	22°40	3° 0	6°59	11°58	21°33	14° 6	1°13	2° 5	13°35	13°43	7° 7	13°25	M 5
T 6	20 57 54	13°28'49	13°17	22° 1	4° 8	7°37	11°50	21°34	14° 5	1°12	2° 6	13°30	13°39	7°14	13°28	T 6
W 7	21 1 50	14°26'18	25°13	21°18	5°17	8°16	11°42	21°35	14° 4	1°11	2° 7	13°28	13°36	7°20	13°31	W 7
T 8	21 5 47	15°23'47	7♌3	20°32	6°26	8°55	11°35	21°36	14° 3	1°10	2° 8	13°27	13°33	7°27	13°34	T 8
F 9	21 9 43	16°21'19	18°51	19°45	7°36	9°33	11°27	21°38	14° 3	1° 9	2° 8	13°27	13°30	7°34	13°37	F 9
S 10	21 13 40	17°18'51	0♊44	18°56	8°45	10°12	11°19	21°39	14° 2	1° 8	2° 9	13°27	13°27	7°40	13°40	S 10
S 11	21 17 37	18°16'25	12°47	18° 8	9°54	10°50	11°11	21°41	14° 1	1° 7	2°10	13°25	13°24	7°47	13°42	S 11
M12	21 21 33	19°14'01	25° 4	17°21	11° 4	11°28	11° 4	21°42	14° 1	1° 6	2°11	13°21	13°20	7°53	13°45	M12
T 13	21 25 30	20°11'38	7♌40	16°35	12°13	12° 7	10°56	21°44	14° 0	1° 5	2°12	13°14	13°17	8° 0	13°48	T 13
W14	21 29 26	21° 9'16	20°37	15°52	13°23	12°45	10°48	21°46	14° 0	1° 4	2°14	13° 5	13°14	8° 7	13°50	W14
T 15	21 33 23	22° 6'55	3♌57	15°13	14°33	13°24	10°41	21°48	13°59	1° 3	2°15	12°54	13°11	8°13	13°53	T 15
F 16	21 37 19	23° 4'36	17°38	14°38	15°43	14° 2	10°33	21°50	13°59	1° 3	2°16	12°43	13° 8	8°20	13°55	F 16
S 17	21 41 16	24° 2'18	1♉37	14° 8	16°53	14°41	10°26	21°52	13°59	1° 2	2°17	12°31	13° 5	8°27	13°57	S 17
S 18	21 45 13	25° 0'02	15°49	13°44	18° 3	15°19	10°19	21°54	13°58	1° 1	2°18	12°21	13° 1	8°33	14° 0	S 18
M19	21 49 9	25°57'46	0♊10	13°27	19°13	15°57	10°11	21°56	13°58	1° 0	2°19	12°13	12°58	8°40	14° 2	M19
T 20	21 53 6	26°55'32	14°33	13°16	20°24	16°36	10° 4	21°59	13°58	0°59	2°21	12° 8	12°55	8°47	14° 4	T 20
W21	21 57 2	27°53'19	28°54	13°D13	21°34	17°14	9°57	22° 1	13°58	0°59	2°22	12° 6	12°52	8°53	14° 6	W21
T 22	22 0 59	28°51'07	13♍10	13°17	22°44	17°52	9°50	22° 4	13°58	0°58	2°23	12°D 5	12°49	9° 0	14° 8	T 22
F 23	22 4 55	29°48'56	27°18	13°29	23°55	18°31	9°43	22° 6	13°D58	0°57	2°25	12°R 6	12°45	9° 7	14°10	F 23
S 24	22 8 52	0♉46'46	11♌19	13°49	25° 6	19° 9	9°36	22° 9	13°58	0°57	2°26	12° 5	12°42	9°13	14°12	S 24
S 25	22 12 48	1°44'38	25°11	14°16	26°16	19°47	9°30	22°12	13°58	0°56	2°27	12° 3	12°39	9°20	14°14	S 25
M26	22 16 45	2°42'30	8♌54	14°51	27°27	20°25	9°23	22°15	13°58	0°56	2°29	11°59	12°36	9°26	14°16	M26
T 27	22 20 42	3°40'24	22°27	15°34	28°38	21° 4	9°17	22°18	13°58	0°55	2°30	11°52	12°33	9°33	14°18	T 27
W28	22 24 38	4°38'20	5♌49	16°25	29°49	21°42	9°10	22°21	13°58	0°55	2°32	11°42	12°30	9°40	14°19	W28
T 29	22 28 35	5°36'16	18°59	17°22	1♌0	22°20	9° 4	22°24	13°59	0°54	2°33	11°32	12°26	9°46	14°21	T 29
F 30	22 32 31	6°34'15	1♌55	18°27	2°12	22°58	8°58	22°27	13°59	0°54	2°35	11°20	12°23	9°53	14°23	F 30
S 31	22 36 28	7♉32'14	14♌37	19♌38	3♌23	23♌36	8♌52	22♍31	13♌59	0♌53	2♍36	11♌10	12♌20	10♌0	14♊24	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
T 1	18n 5	22s35	5s 0	9n15	4s18	21n37	1s49	20n13	1n 5	17s53	0s51	16s 5	2n 8	22s32	0s 2	22s17	1n 9	3n26	16n37	16n 7	16n 1	13n 8	18n 4	4s22					
F 2	17 50	18 28	4 57	9 14	4 27	21 40	1 46	20 4	1 6	17 55	0 51	16 6	2 7	22 32	0 2	22 17	1 9	3 26	16 36	16 4	16 0	13 11	18 4	4 22					
S 3	17 35	13 34	4 38	9 15	4 35	21 43	1 43	19 55	1 6	17 57	0 51	16 6	2 7	22 32	0 2	22 17	1 9	3 25	16 35	16 0	15 59	13 14	18 4	4 22					
S 4	17 19	8 13	4 7	9 19	4 42	21 46	1 40	19 45	1 6	17 59	0 51	16 6	2 7	22 32	0 2	22 17	1 9	3 24	16 35	15 57	15 58	13 17	18 4	4 23					
M 5	17 3	2 39	3 24	9 26	4 47	21 48	1 37	19 36	1 6	18 2	0 51	16 7	2 7	22 32	0 2	22 17	1 9	3 23	16 34	15 55	15 57	13 20	18 4	4 23					
T 6	16 47	2n54	2 32	9 35	4 51	21 49	1 34	19 26	1 6	18 4	0 52	16 7	2 6	22 32	0 2	22 17	1 9	3 23	16 34	15 54	15 56	13 23	18 4	4 24					
W 7	16 30	8 17	1 35	9 46	4 53	21 50	1 30	19 16	1 7	18 6	0 52	16 8	2 6	22 32	0 2	22 17	1 9	3 22	16 33	15 53	15 56	13 26	18 4	4 24					
T 8	16 13	13 20	0 34	10 0	4 54	21 50	1 27	19 6	1 7	18 9	0 52	16 9	2 6	22 32	0 2	22 18	1 9	3 21	16 33	15 53	15 55	13 29	18 4	4 24					
F 9	15 56	17 53	0n29	10 16	4 53	21 50	1 24	18 56	1 7	18 11	0 52	16 9	2 6	22 32	0 2	22 18	1 9	3 20	16 32	15 53	15 54	13 32	18 4	4 24					
S 10	15 39	21 47	1 30	10 34	4 49	21 49	1 21	18 46	1 7	18 13	0 52	16 10	2 5	22 32	0 2	22 18	1 9	3 19	16 31	15 53	15 53	13 35	18 4	4 25					
S 11	15 21	24 48	2 29	10 53	4 44	21 47	1 17	18 36	1 7	18 15	0 52	16 10	2 5	22 31	0 2	22 18	1 9	3 18	16 31	15 52	15 52	13 38	18 4	4 25					
M12	15 3	26 42	3 21	11 14	4 38	21 45	1 14	18 25	1 7	18 18	0 52	16 11	2 5	22 31	0 2	22 18	1 9	3 18	16 30	15 51	15 51	13 41	18 4	4 26					
T 13	14 45	27 18	4 6	11 35	4 29	21 43	1 11	18 15	1 8	18 20	0 52	16 12	2 5	22 31	0 2	22 18	1 9	3 17	16 30	15 49	15 50	13 44	18 4	4 26					
W14	14 27	26 27	4 38	11 58	4 19	21 39	1 7	18 4	1 8	18 22	0 52	16 12	2 4	22 31	0 2	22 18	1 9	3 16	16 29	15 46	15 49	13 47	18 3	4 26					
T 15	14 8	24 5	4 57	12 21	4 7	21 35	1 4	17 53	1 8	18 24	0 53	16 13	2 4	22 31	0 2	22 18	1 8	3 15	16 29	15 43	15 48	13 50	18 3	4 27					
F 16	13 50	20 18	5 0	12 43	3 53	21 31	1 0	17 42	1 8	18 26	0 53	16 14	2 4	22 31	0 2	22 18	1 8	3 14	16 28	15 39	15 47	13 53	18 3	4 27					
S 17	13 31	15 20	4 45	13 6	3 39	21 26	0 57	17 31	1 8	18 28	0 53	16 15	2 4	22 31	0 2	22 18	1 8	3 13	16 28	15 36	15 46	13 56	18 3	4 27					
S 18	13 11	9 27	4 12	13 27	3 23	21 20	0 54	17 20	1 8	18 30	0 53	16 15	2 3	22 31	0 2	22 18	1 8	3 12	16 27	15 33	15 45	13 59	18 3	4 28					
M19	12 52	3 2	3 23	13 48	3 7	21 14	0 50	17 9	1 8	18 32	0 53	16 16	2 3	22 31	0 2	22 18	1 8	3 11	16 27	15 30	15 44	14 2	18 3	4 28					
T 20	12 32	3s34	2 21	14 7	2 50	21 7	0 47	16 57	1 9	18 34	0 53	16 17	2 3	22 31	0 2	22 18	1 8	3 11	16 26	15 29	15 43	14 5	18 3	4 29					
W21	12 13	10 0	1 9	14 25	2 32	21 0	0 43	16 46	1 9	18 36	0 53	16 18	2 3	22 31	0 2	22 18	1 8	3 10	16 26	15 28	15 42	14 7	18 3	4 29					
T 22	11 53	15 53	0s 6	14 41	2 14	20 52	0 40	16 34	1 9	18 38	0 53	16 19	2 2	22 31	0 2	22 18	1 8	3 9	16 25	15 28	15 41	14 10	18 3	4 29					
F 23	11 32	20 51	1 20	14 55	1 56	20 43	0 37	16 23	1 9	18 40	0 53	16 20	2 2	22 31	0 2	22 18	1 8	3 8	16 24	15 28	15 40	14 13	18 2	4 30					
S 24	11 12	24 36	2 29	15 7	1 38	20 34	0 33	16 11	1 9	18 42	0 53	16 21	2 2	22 31	0 2	22 18	1 8	3 7	16 24	15 28	15 39	14 16	18 2	4 30					
S 25	10 51	26 49	3 28	15 16	1 21	20 25	0 30	15 59	1 9	18 44	0 53	16 22	2 2	22 31	0 2	22 18	1 8	3 6	16 23	15 27	15 38	14 19	18 2	4 30					
M26	10 31	27 22	4 14	15 22	1 3	20 14	0 27	15 47	1 9	18 46	0 53	16 23	2 1	22 31	0 2	22 18	1 8	3 5	16 23	15 26	15 37	14 22	18 2	4 31					
T 27	10 10	26 16	4 46	15 26	0 46	20 3	0 23	15 35	1 10	18 48	0 53	16 24	2 1	22 31	0 2	22 18	1 8	3 4	16 22	15 24	15 36	14 25	18 2	4 31					
W28	9 49	23 41	5 1	15 27	0 30	19 52	0 20	15 22	1 10	18 49	0 53	16 25	2 1	22 31	0 2	22 18	1 8	3 3	16 22	15 21	15 35	14 28	18 1	4 32					
T 29	9 27	19 53	5 0	15 24	0 14	19 40	0 17	15 10	1 10	18 51	0 53	16 26	2 1	22 31	0 2	22 19	1 8	3 2	16 22	15 18	15 34	14 31	18 1	4 32					
F 30	9 6	15 12	4 44	15 19	0n 1	19 28	0 13	14 58	1 10	18 53	0 53	16 27	2 0	22 31	0 2	22 19	1 8	3 1	16 21	15 14	15 33	14 34	18 1	4 32					
S 31	8n45	9s57	4s13	15n10	0n15	19n14	0s10	14n45	1n10	18s54	0s53	16s28	2n 0	22s31	0s 2	22s19	1n 8	3n 0	16n21	15n11	15n32	14n37	18n 1	4s33					

ASTRODIENST EPHEMERIS for the year 1985
geocentric

SEPTEMBER 1985

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 40 24	8 ^h 30'15	27 ^h 5 5	20 ^h 55	4 ^h 34	24 ^h 15	8 ^h R46	22 ^h 34	14 ^h 7 0	0 ^h R53	2 ^h 38	11 ^h R 1	12 ^h 8 17	10 ^h 8 6	14 ^h II26	S 1
M 2	22 44 21	9 ^h 28'18	9 ^h Y19	22 ^h 17	5 ^h 46	24 ^h 53	8 ^h 40	22 ^h 37	14 ^h 0 0	0 ^h 53	2 ^h 40	10 ^h 8 54	12 ^h 14	10 ^h 13	14 ^h 27	M 2
T 3	22 48 17	10 ^h 26'23	21 ^h 21	23 ^h 45	6 ^h 57	25 ^h 31	8 ^h 35	22 ^h 41	14 ^h 1 1	0 ^h 52	2 ^h 41	10 ^h 50	12 ^h 11	10 ^h 20	14 ^h 28	T 3
W 4	22 52 14	11 ^h 24'30	3 ^h 8 14	25 ^h 18	8 ^h 9	26 ^h 9	8 ^h 29	22 ^h 45	14 ^h 1 1	0 ^h 52	2 ^h 43	10 ^h 48	12 ^h 7	10 ^h 26	14 ^h 29	W 4
T 5	22 56 10	12 ^h 22'39	15 ^h 2	26 ^h 55	9 ^h 20	26 ^h 47	8 ^h 24	22 ^h 48	14 ^h 2 2	0 ^h 52	2 ^h 45	10 ^h D47	12 ^h 4	10 ^h 33	14 ^h 31	T 5
F 6	23 0 7	13 ^h 20'49	26 ^h 49	28 ^h 35	10 ^h 32	27 ^h 25	8 ^h 19	22 ^h 52	14 ^h 3 3	0 ^h 51	2 ^h 46	10 ^h 48	12 ^h 1	10 ^h 40	14 ^h 32	F 6
S 7	23 4 4	14 ^h 19'02	8 ^h II41	0 ^h 19	11 ^h 44	28 ^h 3	8 ^h 14	22 ^h 56	14 ^h 3 3	0 ^h 51	2 ^h 48	10 ^h R49	11 ^h 58	10 ^h 46	14 ^h 33	S 7
S 8	23 8 0	15 ^h 17'16	20 ^h 44	2 ^h 5	12 ^h 56	28 ^h 41	8 ^h 9	23 ^h 0	14 ^h 4 4	0 ^h 51	2 ^h 50	10 ^h 49	11 ^h 55	10 ^h 53	14 ^h 34	S 8
M 9	23 11 57	16 ^h 15'33	3 ^h 5	3 ^h 54	14 ^h 8	29 ^h 20	8 ^h 4	23 ^h 4	14 ^h 5 5	0 ^h 51	2 ^h 52	10 ^h 47	11 ^h 51	11 ^h 0	14 ^h 35	M 9
T 10	23 15 53	17 ^h 13'52	15 ^h 38	5 ^h 44	15 ^h 20	29 ^h 58	8 ^h 0	23 ^h 8	14 ^h 6 6	0 ^h 51	2 ^h 54	10 ^h 44	11 ^h 48	11 ^h 6	14 ^h 35	T 10
W 11	23 19 50	18 ^h 12'13	28 ^h 39	7 ^h 36	16 ^h 32	0 ^h 36	7 ^h 56	23 ^h 12	14 ^h 7 7	0 ^h 51	2 ^h 55	10 ^h 38	11 ^h 45	11 ^h 13	14 ^h 36	W 11
T 12	23 23 46	19 ^h 10'36	12 ^h 5	9 ^h 29	17 ^h 45	1 ^h 14	7 ^h 51	23 ^h 17	14 ^h 8 8	0 ^h D51	2 ^h 57	10 ^h 31	11 ^h 42	11 ^h 19	14 ^h 37	T 12
F 13	23 27 43	20 ^h 9'00	25 ^h 57	11 ^h 22	18 ^h 57	1 ^h 52	7 ^h 47	23 ^h 21	14 ^h 9 9	0 ^h 51	2 ^h 59	10 ^h 23	11 ^h 39	11 ^h 26	14 ^h 37	F 13
S 14	23 31 39	21 ^h 7'27	10 ^h 12	13 ^h 15	20 ^h 9	2 ^h 30	7 ^h 44	23 ^h 26	14 ^h 10 10	0 ^h 51	3 ^h 1	10 ^h 15	11 ^h 36	11 ^h 33	14 ^h 38	S 14
S 15	23 35 36	22 ^h 5'56	24 ^h 45	15 ^h 9	21 ^h 22	3 ^h 8	7 ^h 40	23 ^h 30	14 ^h 11 11	0 ^h 51	3 ^h 3	10 ^h 8	11 ^h 32	11 ^h 39	14 ^h 38	S 15
M 16	23 39 33	23 ^h 4'26	9 ^h 30	17 ^h 3	22 ^h 35	3 ^h 46	7 ^h 37	23 ^h 35	14 ^h 12 12	0 ^h 51	3 ^h 5	10 ^h 2	11 ^h 29	11 ^h 46	14 ^h 39	M 16
T 17	23 43 29	24 ^h 2'58	24 ^h 17	18 ^h 56	23 ^h 47	4 ^h 24	7 ^h 33	23 ^h 39	14 ^h 14 14	0 ^h 51	3 ^h 7	9 ^h 59	11 ^h 26	11 ^h 53	14 ^h 39	T 17
W 18	23 47 26	25 ^h 1'32	9 ^h 11	20 ^h 49	25 ^h 0	5 ^h 2	7 ^h 30	23 ^h 44	14 ^h 15 15	0 ^h 51	3 ^h 9	9 ^h D58	11 ^h 23	11 ^h 59	14 ^h 39	W 18
T 19	23 51 22	26 ^h 0'08	23 ^h 35	22 ^h 41	26 ^h 13	5 ^h 40	7 ^h 27	23 ^h 49	14 ^h 16 16	0 ^h 52	3 ^h 11	9 ^h 59	11 ^h 20	12 ^h 6	14 ^h 40	T 19
F 20	23 55 19	26 ^h 58'46	7 ^h 56	24 ^h 33	27 ^h 25	6 ^h 18	7 ^h 25	23 ^h 54	14 ^h 18 18	0 ^h 52	3 ^h 13	10 ^h 0	11 ^h 16	12 ^h 13	14 ^h 40	F 20
S 21	23 59 15	27 ^h 57'25	22 ^h 1	26 ^h 24	28 ^h 38	6 ^h 56	7 ^h 22	23 ^h 59	14 ^h 19 19	0 ^h 52	3 ^h 15	10 ^h R 1	11 ^h 13	12 ^h 19	14 ^h R40	S 21
S 22	0 3 12	28 ^h 56'06	5 ^h 349	28 ^h 14	29 ^h 51	7 ^h 34	7 ^h 20	24 ^h 4	14 ^h 21 21	0 ^h 52	3 ^h 17	10 ^h 1	11 ^h 10	12 ^h 26	14 ^h 40	S 22
M 23	0 7 8	29 ^h 54'48	19 ^h 22	0 ^h 4	1 ^h 4	8 ^h 12	7 ^h 18	24 ^h 9	14 ^h 22 22	0 ^h 53	3 ^h 19	9 ^h 59	11 ^h 7	12 ^h 33	14 ^h 40	M 23
T 24	0 11 5	0 ^h 53'32	2 ^h 39	1 ^h 52	2 ^h 17	8 ^h 49	7 ^h 16	24 ^h 14	14 ^h 24 24	0 ^h 53	3 ^h 21	9 ^h 56	11 ^h 4	12 ^h 39	14 ^h 39	T 24
W 25	0 15 2	1 ^h 52'18	15 ^h 41	3 ^h 39	3 ^h 30	9 ^h 27	7 ^h 14	24 ^h 19	14 ^h 25 25	0 ^h 53	3 ^h 24	9 ^h 51	11 ^h 1	12 ^h 46	14 ^h 39	W 25
T 26	0 18 58	2 ^h 51'06	28 ^h 30	5 ^h 26	4 ^h 44	10 ^h 5	7 ^h 13	24 ^h 24	14 ^h 27 27	0 ^h 54	3 ^h 26	9 ^h 45	10 ^h 57	12 ^h 52	14 ^h 39	T 26
F 27	0 22 55	3 ^h 49'55	11 ^h 6	7 ^h 12	5 ^h 57	10 ^h 43	7 ^h 11	24 ^h 30	14 ^h 29 29	0 ^h 54	3 ^h 28	9 ^h 38	10 ^h 54	12 ^h 59	14 ^h 39	F 27
S 28	0 26 51	4 ^h 48'46	23 ^h 30	8 ^h 56	7 ^h 10	11 ^h 21	7 ^h 10	24 ^h 35	14 ^h 31 31	0 ^h 55	3 ^h 30	9 ^h 32	10 ^h 51	13 ^h 6	14 ^h 38	S 28
S 29	0 30 48	5 ^h 47'39	5 ^h Y44	10 ^h 40	8 ^h 24	11 ^h 59	7 ^h 9	24 ^h 40	14 ^h 32 32	0 ^h 55	3 ^h 32	9 ^h 27	10 ^h 48	13 ^h 12	14 ^h 38	S 29
M 30	0 34 44	6 ^h 46'34	17 ^h Y47	12 ^h 23	9 ^h 37	12 ^h 37	7 ^h 8	24 ^h 46	14 ^h 34 34	0 ^h 56	3 ^h 34	9 ^h 24	10 ^h 45	13 ^h 19	14 ^h 37	M 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
S 1	8n23	4s24	3s31	14n58	0n28	19n 1	0s 7	14n33	1n10	18s56	0s53	16s29	2n 0	22s31	0s 2	22s19	1n 8	2n59	16n20	15n 8	15n31	14n40	18n 1	4s33	
M 2	8 1	1n14	2 40	14 43	0 40	18 47	0 4	14 20	1 10	18 57	0 53	16 30	2 0	22 32	0 2	22 19	1 8	2 58	16 20	15 6	15 31	14 43	18 0	4 34	
T 3	7 39	6 45	1 42	14 25	0 51	18 32	0 0	14 7	1 10	18 59	0 53	16 31	2 0	22 32	0 2	22 19	1 8	2 57	16 19	15 5	15 30	14 46	18 0	4 34	
W 4	7 17	11 57	0 40	14 4	1 2	18 17	0n 3	13 54	1 10	19 0	0 53	16 32	1 59	22 32	0 2	22 19	1 8	2 57	16 19	15 4	15 29	14 49	18 0	4 35	
T 5	6 55	16 43	0n23	13 39	1 11	18 1	0 6	13 42	1 11	19 2	0 53	16 33	1 59	22 32	0 2	22 19	1 8	2 56	16 18	15 4	15 28	14 52	17 59	4 35	
F 6	6 33	20 50	1 25	13 12	1 19	17 45	0 9	13 29	1 11	19 3	0 53	16 35	1 59	22 32	0 3	22 19	1 8	2 55	16 18	15 4	15 27	14 54	17 59	4 35	
S 7	6 10	24 8	2 24	12 42	1 26	17 28	0 12	13 15	1 11	19 4	0 53	16 36	1 59	22 32	0 3	22 19	1 7	2 54	16 17	15 4	15 26	14 57	17 59	4 36	
S 8	5 48	26 24	3 18	12 10	1 32	17 11	0 15	13 2	1 11	19 5	0 53	16 37	1 58	22 32	0 3	22 19	1 7	2 53	16 17	15 4	15 25	15 0	17 59	4 36	
M 9	5 25	27 28	4 3	11 35	1 37	16 53	0 18	12 49	1 11	19 7	0 53	16 38	1 58	22 32	0 3	22 19	1 7	2 52	16 17	15 4	15 24	15 3	17 58	4 37	
T 10	5 3	27 8	4 38	10 59	1 41	16 35	0 21	12 36	1 11	19 8	0 53	16 39	1 58	22 32	0 3	22 19	1 7	2 51	16 16	15 3	15 23	15 6	17 58	4 37	
W 11	4 40	25 20	5 0	10 20	1 44	16 16	0 24	12 22	1 11	19 9	0 53	16 41	1 58	22 32	0 3	22 19	1 7	2 50	16 16	15 1	15 22	15 9	17 58	4 37	
T 12	4 17	22 5	5 7	9 40	1 47	15 57	0 27	12 9	1 11	19 10	0 53	16 42	1 58	22 33	0 3	22 19	1 7	2 49	16 15	14 59	15 21	15 12	17 57	4 38	
F 13	3 54	17 30	4 56	8 58	1 48	15 37	0 30	11 55	1 11	19 11	0 53	16 43	1 57	22 33	0 3	22 19	1 7	2 48	16 15	14 56	15 20	15 15	17 57	4 38	
S 14	3 31	11 51	4 27	8 15	1 49	15 17	0 33	11 42	1 11	19 12	0 53	16 45	1 57	22 33	0 3	22 19	1 7	2 47	16 15	14 54	15 19	15 18	17 57	4 39	
S 15	3 8	5 26	3 39	7 31	1 49	14 56	0 35	11 28	1 11	19 13	0 53	16 46	1 57	22 33	0 3	22 19	1 7	2 46	16 14	14 51	15 18	15 21	17 56	4 39	
M 16	2 45	1s21	2 37	6 46	1 48	14 35	0 38	11 14	1 11	19 14	0 53	16 47	1 57	22 33	0 3	22 19	1 7	2 45	16 14	14 50	15 17	15 23	17 56	4 40	
T 17	2 22	8 7	1 24	6 1	1 46	14 14	0 41	11 1	1 12	19 15	0 53	16 49	1 57	22 33	0 3	22 19	1 7	2 44	16 13	14 49	15 16	15 26	17 55	4 40	
W 18	1 59	14 25	0 5	5 14	1 44	13 52	0 43	10 47	1 12	19 15	0 53	16 50	1 56	22 33	0 3	22 19	1 7	2 43	16 13	14 48	15 15	15 29	17 55	4 40	
T 19	1 35	19 51	1s13	4 28	1 42	13 30	0 46	10 33	1 12	19 16	0 53	16 51	1 56	22 34	0 3	22 19	1 7	2 42	16 13	14 49	15 14	15 32	17 55	4 41	
F 20	1 12	24 2	2 26	3 41	1 39	13 7	0 48	10 19	1 12	19 17	0 53	16 53	1 56	22 34	0 3	22 20	1 7	2 41	16 12	14 49	15 13	15 35	17 54	4 41	
S 21	0 49	26 40	3 28	2 53	1 35	12 44	0 51	10 5	1 12	19 17	0 53	16 54	1 56	22 34	0 3	22 20	1 7	2 40	16 12	14 49	15 12	15 38	17 54	4 42	
S 22	0 25	27 36	4 17	2 6	1 31	12 21	0 53	9 51	1 12	19 18	0 53	16 55	1 56	22 34	0 3	22 20	1 7	2 39	16 12	14 49	15 11	15 41	17 53	4 42	
M 23	0 2	26 50	4 51	1 18	1 27	11 57	0 55	9 37	1 12	19 18	0 53	16 57	1 55	22 34	0 3	22 20	1 7	2 38	16 11	14 49	15 10	15 44	17 53	4 43	
T 24	0s21	24 34	5 8	0 31	1 22	11 33	0 58	9 22	1 12	19 19	0 53	16 58	1 55	22 34	0 3	22 20	1 7	2 37	16 11	14 48	15 9	15 46	17 52	4 43	
W 25	0 45	21 3	5 9	0s16	1 17	11 9	1 0	9 8	1 12	19 19	0 53	17 0	1 55	22 35	0 3	22 20	1 7	2 36	16 11	14 46	15 8	15 49	17 52	4 43	
T 26	1 8	16 36	4 54	1 3	1 12	10 44	1 2	8 54	1 12	19 20	0 53	17 1	1 55	22 35	0 3	22 20	1 7	2 35	16 11	14 44	15 7	15 52	17 52	4 44	
F 27	1 31	11 30	4 25	1 50	1 6	10 19	1 4	8 40	1 12	19 20	0 53	17 3	1 55	22 35	0 3	22 20	1 7	2 34	16 10	14 42	15 6	15 55	17 51	4 44	
S 28	1 55	6 1	3 44	2 37	1 1	9 54	1 6	8 25	1 12	19 20	0 53	17 4	1 54	22 35	0 3	22 20	1 7	2 33	16 10	14 40	15 5	15 58	17 51	4 45	
S 29	2 18	0 23	2 54	3 23	0 55	9 28	1 8	8 11	1 12	19 20	0 53	17 6	1 54	22 35	0 3	22 20	1 6	2 32	16 10	14 39	15 4	16 1	17 50	4 45	
M 30	2s41	5n12	1s55	4s 9	0n49	9n 3	1n10	7n56	1n12	19s20	0s53	17s 7	1n54	22s36	0s 3	22s20	1n 6	2n31	16n 9	14n37	15n 3	16n 4	17n50	4s45	

ASTRODIENST EPHEMERIS for the year 1985
geocentric

OCTOBER 1985

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 38 41	7♏45'31	29♏43	14♏5	10♏51	13♏15	7°R 8	24♏51	14♏36	0♏57	3♏37	9°R22	10♏42	13♏26	14°R36	T 1
W 2	0 42 37	8°44'31	11♏33	15°46	12° 4	13°52	7° 7	24°57	14°38	0°57	3°39	9°D21	10°38	13°32	14°II36	W 2
T 3	0 46 34	9°43'32	23°19	17°27	13°18	14°30	7°D 7	25° 3	14°40	0°58	3°41	9♏22	10°35	13°39	14°35	T 3
F 4	0 50 31	10°42'36	5♏17	19° 6	14°31	15° 8	7° 7	25° 8	14°42	0°59	3°43	9°24	10°32	13°46	14°34	F 4
S 5	0 54 27	11°41'42	16°59	20°45	15°45	15°46	7° 8	25°14	14°44	0°59	3°46	9°25	10°29	13°52	14°33	S 5
S 6	0 58 24	12°40'51	29° 0	22°23	16°59	16°24	7° 8	25°20	14°46	1° 0	3°48	9°27	10°26	13°59	14°32	S 6
M 7	1 2 20	13°40'01	11♏15	24° 0	18°13	17° 2	7° 9	25°26	14°49	1° 1	3°50	9°R28	10°22	14° 6	14°31	M 7
T 8	1 6 17	14°39'15	23°49	25°36	19°27	17°39	7° 9	25°32	14°51	1° 2	3°53	9°27	10°19	14°12	14°30	T 8
W 9	1 10 13	15°38'30	6♏46	27°11	20°41	18°17	7°10	25°38	14°53	1° 2	3°55	9°26	10°16	14°19	14°29	W 9
T 10	1 14 10	16°37'47	20° 9	28°46	21°55	18°55	7°12	25°44	14°55	1° 3	3°57	9°23	10°13	14°25	14°27	T 10
F 11	1 18 6	17°37'07	4♏0	0♏20	23° 9	19°33	7°13	25°50	14°58	1° 4	4° 0	9°21	10°10	14°32	14°26	F 11
S 12	1 22 3	18°36'29	18°17	1°53	24°23	20°11	7°15	25°56	15° 0	1° 5	4° 2	9°18	10° 7	14°39	14°25	S 12
S 13	1 26 0	19°35'54	2♏58	3°26	25°37	20°48	7°16	26° 2	15° 3	1° 6	4° 4	9°15	10° 3	14°45	14°23	S 13
M14	1 29 56	20°35'20	17°55	4°58	26°51	21°26	7°18	26° 9	15° 5	1° 7	4° 7	9°13	10° 0	14°52	14°22	M14
T 15	1 33 53	21°34'48	3♏1	6°29	28° 5	22° 4	7°21	26°15	15° 7	1° 8	4° 9	9°D12	9°57	14°59	14°20	T 15
W16	1 37 49	22°34'19	18° 6	8° 0	29°20	22°42	7°23	26°21	15°10	1° 9	4°11	9°12	9°54	15° 5	14°18	W16
T 17	1 41 46	23°33'51	3♏2	9°29	0♏34	23°19	7°26	26°27	15°13	1°10	4°14	9°13	9°51	15°12	14°17	T 17
F 18	1 45 42	24°33'26	17°42	10°59	1°48	23°57	7°28	26°34	15°15	1°12	4°16	9°14	9°48	15°19	14°15	F 18
S 19	1 49 39	25°33'02	2♏1	12°27	3° 3	24°35	7°31	26°40	15°18	1°13	4°19	9°15	9°44	15°25	14°13	S 19
S 20	1 53 35	26°32'40	15°57	13°55	4°17	25°12	7°35	26°47	15°21	1°14	4°21	9°16	9°41	15°32	14°11	S 20
M21	1 57 32	27°32'19	29°30	15°22	5°32	25°50	7°38	26°53	15°23	1°15	4°23	9°R16	9°38	15°39	14° 9	M21
T 22	2 1 29	28°32'00	12♏41	16°48	6°46	26°28	7°41	27° 0	15°26	1°16	4°26	9°16	9°35	15°45	14° 7	T 22
W23	2 5 25	29°31'43	25°32	18°14	8° 1	27° 5	7°45	27° 6	15°29	1°18	4°28	9°15	9°32	15°52	14° 5	W23
T 24	2 9 22	0♏31'27	8♏7	19°38	9°15	27°43	7°49	27°13	15°32	1°19	4°31	9°14	9°28	15°59	14° 3	T 24
F 25	2 13 18	1°31'14	20°28	21° 2	10°30	28°21	7°53	27°20	15°34	1°20	4°33	9°13	9°25	16° 5	14° 1	F 25
S 26	2 17 15	2°31'01	2°V38	22°26	11°44	28°58	7°57	27°26	15°37	1°22	4°36	9°12	9°22	16°12	13°58	S 26
S 27	2 21 11	3°30'51	14°39	23°48	12°59	29°36	8° 2	27°33	15°40	1°23	4°38	9°11	9°19	16°18	13°56	S 27
M28	2 25 8	4°30'43	26°33	25° 9	14°14	0♏14	8° 7	27°40	15°43	1°24	4°40	9°11	9°16	16°25	13°54	M28
T 29	2 29 4	5°30'36	8♏23	26°29	15°29	0°51	8°11	27°47	15°46	1°26	4°43	9°D11	9°13	16°32	13°51	T 29
W30	2 33 1	6°30'32	20°11	27°48	16°43	1°29	8°16	27°53	15°49	1°27	4°45	9°11	9° 9	16°38	13°49	W30
T 31	2 36 57	7♏30'29	1♏59	29♏6	17♏58	2♏7	8°21	28♏0	15°52	1°28	4♏48	9♏11	9♏6	16♏45	13♏46	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	decl lat
T 1	3s 5	10n33	0s53	4s55	0n42	8n36	1n12	7n42	1n12	19s21	0s53	17s 9	1n54	22s36	0s 3	22s20
W 2	3 28	15 29	0n12	5 40	0 36	8 10	1 13	7 27	1 12	19 21	0 53	17 10	1 54	22 36	0 3	22 20
T 3	3 51	19 50	1 16	6 24	0 29	7 43	1 15	7 13	1 12	19 21	0 53	17 12	1 54	22 36	0 3	22 20
F 4	4 14	23 24	2 17	7 8	0 22	7 16	1 17	6 58	1 12	19 21	0 53	17 13	1 53	22 37	0 3	22 20
S 5	4 38	26 0	3 12	7 52	0 16	6 49	1 18	6 44	1 12	19 20	0 52	17 15	1 53	22 37	0 3	22 20
S 6	5 1	27 26	4 0	8 35	0 9	6 22	1 20	6 29	1 12	19 20	0 52	17 16	1 53	22 37	0 3	22 20
M 7	5 24	27 35	4 8	9 17	0 2	5 54	1 21	6 14	1 12	19 20	0 52	17 18	1 53	22 37	0 3	22 20
T 8	5 47	26 19	5 4	9 59	0s 5	5 27	1 22	5 59	1 12	19 20	0 52	17 19	1 53	22 38	0 3	22 20
W 9	6 9	23 39	5 15	10 40	0 12	4 59	1 24	5 45	1 12	19 19	0 52	17 21	1 53	22 38	0 3	22 20
T 10	6 32	19 40	5 10	11 20	0 19	4 30	1 25	5 30	1 12	19 19	0 52	17 22	1 52	22 38	0 3	22 20
F 11	6 55	14 30	4 47	12 0	0 26	4 2	1 26	5 15	1 12	19 19	0 52	17 24	1 52	22 38	0 3	22 20
S 12	7 18	8 24	4 5	12 39	0 33	3 34	1 27	5 0	1 12	19 18	0 52	17 26	1 52	22 39	0 3	22 20
S 13	7 40	1 41	3 7	13 17	0 40	3 5	1 28	4 45	1 12	19 18	0 52	17 27	1 52	22 39	0 3	22 20
M14	8 3	5s15	1 55	13 55	0 47	2 37	1 29	4 30	1 12	19 17	0 52	17 29	1 52	22 39	0 3	22 21
T 15	8 25	11 59	0 34	14 32	0 54	2 8	1 30	4 15	1 12	19 16	0 52	17 30	1 52	22 40	0 3	22 21
W16	8 47	18 1	0s49	15 8	1 1	1 39	1 30	4 1	1 12	19 16	0 52	17 32	1 52	22 40	0 3	22 21
T 17	9 9	22 52	2 8	15 43	1 8	1 10	1 31	3 46	1 12	19 15	0 52	17 34	1 51	22 40	0 3	22 21
F 18	9 31	26 9	3 18	16 18	1 14	0 41	1 32	3 31	1 12	19 14	0 52	17 35	1 51	22 40	0 3	22 21
S 19	9 53	27 38	4 13	16 51	1 21	0 12	1 32	3 16	1 12	19 13	0 52	17 37	1 51	22 41	0 3	22 21
S 20	10 14	27 19	4 51	17 24	1 27	0s17	1 33	3 1	1 12	19 13	0 52	17 38	1 51	22 41	0 3	22 21
M21	10 36	25 21	5 13	17 56	1 34	0 46	1 33	2 46	1 12	19 12	0 51	17 40	1 51	22 41	0 3	22 21
T 22	10 57	22 4	5 17	18 27	1 40	1 15	1 33	2 31	1 12	19 11	0 51	17 42	1 51	22 42	0 3	22 21
W23	11 18	17 47	5 5	18 57	1 46	1 45	1 34	2 16	1 12	19 10	0 51	17 43	1 51	22 42	0 3	22 21
T 24	11 39	12 49	4 38	19 26	1 52	2 14	1 34	2 1	1 12	19 9	0 51	17 45	1 51	22 42	0 3	22 21
F 25	12 0	7 26	3 59	19 54	1 57	2 43	1 34	1 46	1 12	19 7	0 51	17 46	1 50	22 43	0 3	22 21
S 26	12 21	1 51	3 9	20 21	2 3	3 12	1 34	1 31	1 12	19 6	0 51	17 48	1 50	22 43	0 3	22 21
S 27	12 41	3n44	2 12	20 48	2 8	3 41	1 34	1 16	1 12	19 5	0 51	17 50	1 50	22 43	0 3	22 21
M28	13 2	9 10	1 10	21 12	2 13	4 10	1 34	1 1	1 12	19 4	0 51	17 51	1 50	22 44	0 3	22 21
T 29	13 22	14 14	0 4	21 36	2 18	4 39	1 33	0 46	1 12	19 2	0 51	17 53	1 50	22 44	0 3	22 21
W30	13 41	18 46	1n 1	21 59	2 22	5 8	1 33	0 31	1 12	19 1	0 51	17 54	1 50	22 44	0 3	22 21
T 31	14s 1	22n35	2n 3	22s21	2s27	5s37	1n33	0n16	1n12	19s 0	0s51	17s56	1n50	22s45	0s 3	22s21

Julian Day Number = 2446339.5, Delta T = 54.74 sec
Ecliptic obliquity = 23°26'36", Nutation = - 0°00'12", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°32'28", Lahiri = 23°39'29"

ASTRODIENST EPHEMERIS for the year 1985
geocentric

NOVEMBER 1985

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 40 54	8♍30'29	13♏49	0♊23	19♏13	2♏44	8♏27	28♍ 7	15♊55	1♊30	4♍50	9♏11	9♏ 3	16♏52	13♏43	F 1
S 2	2 44 51	9°30'31	25°44	1°38	20°28	3°22	8°32	28°14	15°58	1°32	4°53	9°R11	9° 0	16°58	13♏41	S 2
S 3	2 48 47	10°30'34	7♏48	2°52	21°43	3°59	8°38	28°21	16° 2	1°33	4°55	9°11	8°57	17° 5	13°38	S 3
M 4	2 52 44	11°30'40	20° 4	4° 4	22°58	4°37	8°44	28°28	16° 5	1°35	4°57	9°11	8°53	17°12	13°35	M 4
T 5	2 56 40	12°30'48	2♏36	5°14	24°13	5°14	8°50	28°35	16° 8	1°37	5° 0	9°10	8°50	17°18	13°33	T 5
W 6	3 0 37	13°30'58	15°28	6°22	25°28	5°52	8°56	28°42	16°11	1°38	5° 2	9°D10	8°47	17°25	13°30	W 6
T 7	3 4 33	14°31'10	28°42	7°28	26°43	6°30	9° 2	28°49	16°14	1°40	5° 5	9°10	8°44	17°32	13°27	T 7
F 8	3 8 30	15°31'24	12♏23	8°30	27°58	7° 7	9° 9	28°56	16°18	1°42	5° 7	9°11	8°41	17°38	13°24	F 8
S 9	3 12 27	16°31'40	26°29	9°30	29°13	7°45	9°16	29° 3	16°21	1°43	5° 9	9°12	8°38	17°45	13°21	S 9
S 10	3 16 23	17°31'58	11♏ 1	10°27	0♍28	8°22	9°22	29°10	16°24	1°45	5°12	9°12	8°34	17°51	13°18	S 10
M 11	3 20 20	18°32'18	25°55	11°20	1°43	9° 0	9°29	29°17	16°28	1°47	5°14	9°13	8°31	17°58	13°15	M 11
T 12	3 24 16	19°32'39	11♍ 3	12° 8	2°58	9°37	9°37	29°24	16°31	1°49	5°17	9°R13	8°28	18° 5	13°12	T 12
W 13	3 28 13	20°33'03	26°17	12°52	4°13	10°15	9°44	29°31	16°34	1°50	5°19	9°13	8°25	18°11	13° 9	W 13
T 14	3 32 9	21°33'28	11♊27	13°31	5°28	10°52	9°51	29°38	16°38	1°52	5°21	9°12	8°22	18°18	13° 6	T 14
F 15	3 36 6	22°33'55	26°23	14° 3	6°44	11°30	9°59	29°45	16°41	1°54	5°24	9°10	8°19	18°25	13° 3	F 15
S 16	3 40 2	23°34'24	10♊59	14°29	7°59	12° 7	10° 7	29°52	16°45	1°56	5°26	9° 8	8°15	18°31	12°59	S 16
S 17	3 43 59	24°34'53	25° 8	14°48	9°14	12°45	10°15	29°59	16°48	1°58	5°28	9° 6	8°12	18°38	12°56	S 17
M 18	3 47 56	25°35'24	8♏50	14°58	10°29	13°22	10°23	0♊ 6	16°51	2° 0	5°31	9° 5	8° 9	18°45	12°53	M 18
T 19	3 51 52	26°35'56	22° 5	15°R 0	11°44	13°59	10°31	0°14	16°55	2° 2	5°33	9°D 4	8° 6	18°51	12°50	T 19
W 20	3 55 49	27°36'30	4♊56	14°52	13° 0	14°37	10°39	0°21	16°58	2° 4	5°35	9° 4	8° 3	18°58	12°46	W 20
T 21	3 59 45	28°37'04	17°25	14°34	14°15	15°14	10°48	0°28	17° 2	2° 6	5°38	9° 5	7°59	19° 5	12°43	T 21
F 22	4 3 42	29°37'40	29°39	14° 5	15°30	15°52	10°56	0°35	17° 5	2° 8	5°40	9° 7	7°56	19°11	12°40	F 22
S 23	4 7 38	0♊38'17	11°V40	13°26	16°46	16°29	11° 5	0°42	17° 9	2°10	5°42	9° 9	7°53	19°18	12°36	S 23
S 24	4 11 35	1°38'55	23°33	12°36	18° 1	17° 6	11°14	0°49	17°13	2°12	5°44	9°10	7°50	19°25	12°33	S 24
M 25	4 15 31	2°39'34	5♏21	11°36	19°16	17°44	11°23	0°56	17°16	2°14	5°47	9°R11	7°47	19°31	12°29	M 25
T 26	4 19 28	3°40'15	17° 8	10°28	20°32	18°21	11°32	1° 4	17°20	2°16	5°49	9°11	7°44	19°38	12°26	T 26
W 27	4 23 25	4°40'57	28°57	9°13	21°47	18°58	11°42	1°11	17°23	2°18	5°51	9° 9	7°40	19°44	12°23	W 27
T 28	4 27 21	5°41'40	10♏49	7°52	23° 2	19°36	11°51	1°18	17°27	2°20	5°53	9° 6	7°37	19°51	12°19	T 28
F 29	4 31 18	6°42'24	22°47	6°30	24°18	20°13	12° 1	1°25	17°31	2°22	5°55	9° 2	7°34	19°58	12°16	F 29
S 30	4 35 14	7♊43'10	4♏51	5♊ 8	25♍33	20♏50	12♏10	1♊32	17♊34	2♏24	5♍58	8♏57	7♏31	20♏ 4	12♏12	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
F 1	14s20	25n27	3n 1	22s41	2s30	6s 6	1n32	0n 1	1n12	18s58	0s51	17s58	1n50	22s45	0s 3	22s21	1n 5	2n 3	16n 5	14n33	14n31	17n33	17n32	4s57	
S 2	14 40	27 13	3 51	23 0	2 34	6 34	1 32	0s14	1 12	18 57	0 51	17 59	1 50	22 45	0 3	22 21	1 5	2 3	16 5	14 33	14 30	17 36	17 31	4 58	
S 3	14 59	27 44	4 32	23 18	2 37	7 3	1 31	0 29	1 12	18 55	0 51	18 1	1 50	22 46	0 3	22 21	1 5	2 2	16 5	14 33	14 29	17 38	17 30	4 58	
M 4	15 17	26 54	5 0	23 35	2 40	7 31	1 31	0 44	1 12	18 54	0 51	18 3	1 49	22 46	0 3	22 21	1 5	2 1	16 5	14 33	14 28	17 41	17 30	4 58	
T 5	15 36	24 42	5 16	23 50	2 42	7 59	1 30	0 59	1 12	18 52	0 50	18 4	1 49	22 46	0 3	22 21	1 5	2 1	16 5	14 33	14 27	17 44	17 29	4 59	
W 6	15 54	21 14	5 16	24 4	2 44	8 28	1 29	1 14	1 12	18 50	0 50	18 6	1 49	22 47	0 3	22 21	1 5	2 0	16 6	14 33	14 26	17 47	17 29	4 59	
T 7	16 12	16 36	5 0	24 16	2 45	8 55	1 29	1 29	1 12	18 48	0 50	18 7	1 49	22 47	0 3	22 21	1 5	1 59	16 6	14 33	14 25	17 49	17 28	4 59	
F 8	16 29	11 1	4 26	24 27	2 46	9 23	1 28	1 44	1 12	18 47	0 50	18 9	1 49	22 47	0 3	22 21	1 5	1 58	16 6	14 33	14 24	17 52	17 27	5 0	
S 9	16 47	4 42	3 36	24 36	2 45	9 50	1 27	1 59	1 11	18 45	0 50	18 10	1 49	22 48	0 3	22 21	1 5	1 58	16 6	14 34	14 23	17 55	17 27	5 0	
S 10	17 4	2s 3	2 30	24 44	2 45	10 18	1 26	2 14	1 11	18 43	0 50	18 12	1 49	22 48	0 3	22 21	1 5	1 57	16 6	14 34	14 22	17 57	17 26	5 0	
M 11	17 21	8 52	1 13	24 50	2 43	10 45	1 25	2 28	1 11	18 41	0 50	18 14	1 49	22 48	0 3	22 21	1 5	1 56	16 6	14 34	14 21	18 0	17 26	5 0	
T 12	17 37	15 18	0s10	24 54	2 41	11 12	1 24	2 43	1 11	18 39	0 50	18 15	1 49	22 49	0 3	22 21	1 5	1 56	16 6	14 34	14 20	18 3	17 25	5 1	
W 13	17 53	20 50	1 33	24 57	2 38	11 38	1 22	2 58	1 11	18 37	0 50	18 17	1 49	22 49	0 3	22 21	1 5	1 55	16 6	14 34	14 19	18 5	17 24	5 1	
T 14	18 9	24 57	2 49	24 58	2 33	12 4	1 21	3 13	1 11	18 35	0 50	18 18	1 49	22 49	0 3	22 21	1 5	1 55	16 6	14 34	14 18	18 8	17 24	5 1	
F 15	18 25	27 16	3 53	24 56	2 28	12 30	1 20	3 28	1 11	18 33	0 50	18 20	1 49	22 50	0 3	22 21	1 5	1 54	16 6	14 33	14 17	18 11	17 23	5 1	
S 16	18 40	27 38	4 39	24 53	2 21	12 56	1 19	3 42	1 11	18 31	0 50	18 22	1 49	22 50	0 3	22 21	1 5	1 53	16 6	14 33	14 16	18 14	17 22	5 2	
S 17	18 55	26 9	5 7	24 47	2 13	13 21	1 17	3 57	1 11	18 29	0 50	18 23	1 48	22 50	0 3	22 21	1 5	1 53	16 7	14 32	14 15	18 16	17 22	5 2	
M 18	19 10	23 8	5 17	24 39	2 4	13 46	1 16	4 12	1 11	18 26	0 50	18 25	1 48	22 51	0 3	22 21	1 5	1 52	16 7	14 32	14 14	18 19	17 21	5 2	
T 19	19 24	19 0	5 8	24 29	1 54	14 11	1 14	4 26	1 10	18 24	0 50	18 26	1 48	22 51	0 3	22 21	1 4	1 52	16 7	14 31	14 13	18 22	17 21	5 2	
W 20	19 38	14 7	4 45	24 16	1 41	14 35	1 13	4 41	1 10	18 22	0 50	18 28	1 48	22 51	0 3	22 21	1 4	1 51	16 7	14 31	14 12	18 24	17 20	5 2	
T 21	19 51	8 47	4 9	24 0	1 28	14 59	1 11	4 55	1 10	18 19	0 49	18 29	1 48	22 52	0 3	22 21	1 4	1 50	16 7	14 32	14 11	18 27	17 19	5 3	
F 22	20 4	3 13	3 21	23 42	1 12	15 23	1 9	5 10	1 10	18 17	0 49	18 31	1 48	22 52	0 3	22 21	1 4	1 50	16 8	14 32	14 9	18 30	17 19	5 3	
S 23	20 17	2n22	2 26	23 20	0 56	15 46	1 8	5 24	1 10	18 14	0 49	18 32	1 48	22 52	0 3	22 21	1 4	1 49	16 8	14 33	14 8	18 32	17 18	5 3	
S 24	20 30	7 49	1 25	22 56	0 38	16 9	1 6	5 39	1 10	18 12	0 49	18 34	1 48	22 53	0 3	22 21	1 4	1 49	16 8	14 33	14 7	18 35	17 18	5 3	
M 25	20 42	12 59	0 21	22 29	0 18	16 31	1 4	5 53	1 10	18 9	0 49	18 35	1 48	22 53	0 3	22 21	1 4	1 48	16 8	14 33	14 6	18 37	17 17	5 3	
T 26	20 53	17 39	0n44	22 0	0n 2	16 53	1 2	6 7	1 10	18 7	0 49	18 37	1 48	22 53	0 3	22 21	1 4	1 48	16 8	14 33	14 5	18 40	17 16	5 3	
W 27	21 5	21 40	1 47	21 28	0 22	17 15	1 0	6 22	1 9	18 4	0 49	18 38	1 48	22 54	0 3	22 21	1 4	1 48	16 9	14 33	14 4	18 43	17 16	5 4	
T 28	21 15	24 48	2 45	20 56	0 43	17 36	0 58	6 36	1 9	18 1	0 49	18 40	1 48	22 54	0 3	22 21	1 4	1 47	16 9	14 32	14 3	18 45	17 15	5 4	
F 29	21 26	26 51	3 37	20 22	1 2	17 56	0 56	6 50	1 9	17 59	0 49	18 41	1 48	22 55	0 3	22 21	1 4	1 47	16 9	14 31	14 2	18 48	17 15	5 4	
S 30	21s36	27n40	4n19	19s49	1n21	18s16	0n54	7s 4	1n 9	17s56	0s49	18s43	1n48	22s55	0s 3	22s21	1n 4	1n46	16n 9	14n29	14n 1	18n51	17n14	5s	

ASTRODIENST EPHEMERIS for the year 1985
geocentric

DECEMBER 1985

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 39 11	8°43'58	17°5 5	3°R50	26°M48	21°Δ27	12°Δ20	1°Δ39	17°Δ38	2°Δ26	6°M 0	8°R52	7°Δ28	20°Δ11	12°R 9	S 1
M 2	4 43 7	9°44'46	29°29	2°Δ37	28° 4	22° 5	12°30	1°46	17°41	2°28	6° 2	8°Δ47	7°25	20°18	12°II 5	M 2
T 3	4 47 4	10°45'36	12°Δ 6	1°32	29°19	22°42	12°40	1°53	17°45	2°30	6° 4	8°42	7°21	20°24	12° 2	T 3
W 4	4 51 0	11°46'27	24°58	0°37	0°Δ35	23°19	12°50	2° 1	17°49	2°32	6° 6	8°39	7°18	20°31	11°58	W 4
T 5	4 54 57	12°47'20	8°Δ 8	29°M52	1°50	23°56	13° 0	2° 8	17°52	2°35	6° 8	8°D38	7°15	20°38	11°55	T 5
F 6	4 58 54	13°48'14	21°38	29°19	3° 5	24°34	13°11	2°15	17°56	2°37	6°10	8°38	7°12	20°44	11°51	F 6
S 7	5 2 50	14°49'09	5°Δ30	28°58	4°21	25°11	13°21	2°22	18° 0	2°39	6°12	8°39	7° 9	20°51	11°48	S 7
S 8	5 6 47	15°50'06	19°44	28°D47	5°36	25°48	13°32	2°29	18° 3	2°41	6°14	8°41	7° 5	20°58	11°44	S 8
M 9	5 10 43	16°51'04	4°M20	28°47	6°52	26°25	13°43	2°36	18° 7	2°43	6°16	8°R42	7° 2	21° 4	11°41	M 9
T 10	5 14 40	17°52'03	19°12	28°58	8° 7	27° 2	13°53	2°43	18°11	2°46	6°18	8°42	6°59	21°11	11°37	T 10
W11	5 18 36	18°53'03	4°Δ16	29°17	9°23	27°39	14° 4	2°50	18°14	2°48	6°20	8°39	6°56	21°18	11°34	W11
T 12	5 22 33	19°54'04	19°22	29°45	10°38	28°17	14°15	2°57	18°18	2°50	6°22	8°35	6°53	21°24	11°30	T 12
F 13	5 26 29	20°55'06	4°Δ21	0°Δ20	11°54	28°54	14°26	3° 4	18°22	2°52	6°24	8°29	6°50	21°31	11°27	F 13
S 14	5 30 26	21°56'09	19° 4	1° 2	13° 9	29°31	14°38	3°11	18°25	2°54	6°26	8°22	6°46	21°38	11°23	S 14
S 15	5 34 23	22°57'12	3°Δ24	1°49	14°25	0°M 8	14°49	3°17	18°29	2°57	6°27	8°15	6°43	21°44	11°20	S 15
M16	5 38 19	23°58'16	17°15	2°42	15°40	0°45	15° 1	3°24	18°33	2°59	6°29	8° 8	6°40	21°51	11°17	M16
T 17	5 42 16	24°59'20	0°Δ38	3°40	16°56	1°22	15°12	3°31	18°36	3° 1	6°31	8° 3	6°37	21°57	11°13	T 17
W18	5 46 12	26° 0'25	13°34	4°41	18°11	1°59	15°24	3°38	18°40	3° 3	6°33	8° 1	6°34	22° 4	11°10	W18
T 19	5 50 9	27° 1'30	26° 6	5°46	19°27	2°36	15°35	3°45	18°44	3° 6	6°35	8°D 0	6°31	22°11	11° 6	T 19
F 20	5 54 5	28° 2'35	8°Δ19	6°54	20°42	3°13	15°47	3°51	18°47	3° 8	6°36	8° 0	6°27	22°17	11° 3	F 20
S 21	5 58 2	29° 3'40	20°17	8° 5	21°58	3°50	15°59	3°58	18°51	3°10	6°38	8° 1	6°24	22°24	11° 0	S 21
S 22	6 1 59	0°Δ46	2°Δ 8	9°18	23°13	4°26	16°11	4° 5	18°54	3°12	6°40	8°R 2	6°21	22°31	10°57	S 22
M23	6 5 55	1° 5'52	13°54	10°34	24°29	5° 3	16°23	4°11	18°58	3°15	6°41	8° 2	6°18	22°37	10°53	M23
T 24	6 9 52	2° 6'58	25°41	11°51	25°44	5°40	16°35	4°18	19° 2	3°17	6°43	8° 1	6°15	22°44	10°50	T 24
W25	6 13 48	3° 8'05	7°II33	13°10	27° 0	6°17	16°48	4°25	19° 5	3°19	6°44	7°56	6°11	22°51	10°47	W25
T 26	6 17 45	4° 9'12	19°32	14°30	28°15	6°54	17° 0	4°31	19° 9	3°22	6°46	7°49	6° 8	22°57	10°44	T 26
F 27	6 21 41	5°10'19	1°Δ40	15°51	29°31	7°31	17°12	4°38	19°12	3°24	6°48	7°40	6° 5	23° 4	10°41	F 27
S 28	6 25 38	6°11'26	13°58	17°14	0°Δ46	8° 7	17°25	4°44	19°16	3°26	6°49	7°29	6° 2	23°11	10°38	S 28
S 29	6 29 34	7°12'34	26°28	18°37	2° 2	8°44	17°37	4°51	19°19	3°28	6°51	7°18	5°59	23°17	10°35	S 29
M30	6 33 31	8°13'42	9°Δ 8	20° 2	3°17	9°21	17°50	4°57	19°23	3°31	6°52	7° 6	5°56	23°24	10°32	M30
T 31	6 37 28	9°Δ14'50	22°Δ 0	21°Δ27	4°Δ33	9°M58	18°Δ 3	5°Δ 3	19°Δ27	3°Δ33	6°M53	6°Δ56	5°Δ52	23°Δ31	10°II29	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
S 1	21s46	27n 9	4n50	19s18	1n39	18s36	0n52	7s18	1n 9	17s53	0s49	18s44	1n48	22s55	0s 3	22s21	1n 4	1n46	16n10	14n27	14n 0	18n53	17n14	5s 4	5s 4
M 2	21 55	25 17	5 8	18 49	1 55	18 55	0 50	7 32	1 9	17 50	0 49	18 45	1 48	22 56	0 3	22 21	1 4	1 45	16 10	14 26	13 59	18 56	17 13	5 4	5 4
T 3	22 4	22 9	5 12	18 23	2 8	19 13	0 48	7 46	1 9	17 48	0 49	18 47	1 48	22 56	0 3	22 21	1 4	1 45	16 10	14 24	13 58	18 58	17 12	5 4	5 4
W 4	22 12	17 54	5 0	18 0	2 20	19 31	0 46	8 0	1 8	17 45	0 49	18 48	1 48	22 56	0 3	22 21	1 4	1 45	16 10	14 23	13 57	19 1	17 12	5 4	5 4
T 5	22 20	12 43	4 32	17 42	2 29	19 49	0 44	8 14	1 8	17 42	0 49	18 50	1 48	22 57	0 3	22 21	1 4	1 44	16 11	14 23	13 56	19 4	17 11	5 5	5 5
F 6	22 28	6 49	3 49	17 28	2 36	20 6	0 42	8 28	1 8	17 39	0 49	18 51	1 48	22 57	0 3	22 21	1 4	1 44	16 11	14 23	13 55	19 6	17 11	5 5	5 5
S 7	22 35	0 26	2 51	17 19	2 41	20 22	0 39	8 42	1 8	17 36	0 49	18 52	1 48	22 57	0 3	22 21	1 4	1 44	16 11	14 23	13 54	19 9	17 10	5 5	5 5
S 8	22 41	6s 9	1 42	17 14	2 44	20 38	0 37	8 55	1 8	17 33	0 49	18 54	1 48	22 58	0 3	22 21	1 4	1 43	16 12	14 24	13 53	19 12	17 10	5 5	5 5
M 9	22 48	12 35	0 24	17 13	2 45	20 53	0 35	9 9	1 7	17 29	0 49	18 55	1 48	22 58	0 3	22 21	1 4	1 43	16 12	14 24	13 52	19 14	17 9	5 5	5 5
T 10	22 53	18 26	0s57	17 15	2 45	21 8	0 33	9 22	1 7	17 26	0 49	18 57	1 48	22 58	0 3	22 21	1 4	1 43	16 12	14 24	13 51	19 17	17 9	5 5	5 5
W11	22 59	23 12	2 14	17 21	2 43	21 22	0 30	9 36	1 7	17 23	0 49	18 58	1 48	22 59	0 3	22 21	1 4	1 42	16 13	14 23	13 50	19 19	17 8	5 5	5 5
T 12	23 4	26 23	3 23	17 29	2 40	21 35	0 28	9 49	1 7	17 20	0 49	18 59	1 48	22 59	0 3	22 21	1 4	1 42	16 13	14 22	13 49	19 22	17 8	5 5	5 5
F 13	23 8	27 38	4 16	17 40	2 36	21 48	0 26	10 3	1 7	17 17	0 49	19 1	1 48	22 59	0 3	22 21	1 4	1 42	16 13	14 20	13 48	19 24	17 7	5 5	5 5
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S 15	23 15	24 23	5 8	18 8	2 26	22 11	0 21	10 29	1 6	17 10	0 48	19 3	1 48	23 0	0 3	22 21	1 4	1 41	16 14	14 15	13 46	19 30	17 6	5 5	5 5
M16	23 18	20 30	5 5	18 24	2 20	22 22	0 18	10 42	1 6	17 6	0 48	19 4	1 48	23 0	0 3	22 21	1 4	1 41	16 14	14 13	13 45	19 32	17 6	5 5	5 5
T 17	23 21	15 42	4 45	18 42	2 14	22 32	0 16	10 55	1 6	17 3	0 48	19 6	1 48	23 1	0 3	22 21	1 4	1 41	16 15	14 12	13 44	19 35	17 5	5 5	5 5
W18	23 23	10 20	4 12	19 0	2 7	22 41	0 14	11 8	1 6	17 0	0 48	19 7	1 48	23 1	0 3	22 21	1 4	1 41	16 15	14 11	13 43	19 37	17 5	5 5	5 5
T 19	23 25	4 43	3 27	19 18	2 0	22 50	0 11	11 21	1 5	16 56	0 48	19 8	1 48	23 1	0 3	22 21	1 4	1 41	16 16	14 11	13 41	19 40	17 4	5 5	5 5
F 20	23 26	0n57	2 33	19 37	1 53	22 58	0 9	11 34	1 5	16 53	0 48	19 9	1 48	23 2	0 3	22 21	1 4	1 41	16 16	14 11	13 40	19 42	17 4	5 5	5 5
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M23	23 26	16 31	0n32	20 34	1 29	23 18	0 2	12 12	1 4	16 42	0 48	19 13	1 48	23 2	0 3	22 20	1 4	1 40	16 17	14 11	13 37	19 50	17 3	5 5	5 5
T 24	23 26	20 42	1 33	20 52	1 21	23 23	0s 1	12 24	1 4	16 38	0 48	19 14	1 48	23 3	0 3	22 20	1 4	1 40	16 18	14 11	13 36	19 52	17 2	5 5	5 5
W25	23 24	24 4	2 32	21 11	1 13	23 28	0 3	12 37	1 4	16 34	0 48	19 15	1 48	23 3	0 3	22 20	1 4	1 40	16 18	14 9	13 35	19 55	17 2	5 5	5 5
T 26	23 23	26 25	3 23	21 28	1 5	23 32	0 6	12 49	1 4	16 31	0 48	19 17	1 48	23 3	0 3	22 20	1 4	1 40	16 18	14 7	13 34	19 57	17 2	5 5	5 5
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S 29	23 15	25 45	4 58	22 17	0 41	23 38	0 13	13 26	1 3	16 19	0 48	19 20	1 48	23 4	0 3	22 20	1 4	1 40	16 20	13 57	13 31	20 5	17 1	5 5	5 5
M30	23 11	22 51	5 3	22 32	0 33	23 39	0 15	13 37	1 2	16 15	0 48	19 21	1 48	23 5	0 3	22 20	1 4	1 40	16 20	13 53	13 30	20 7	17 0	5 5	5 5
T 31	23s 7	18n48	4n53	22s45	0n25	23s39	0s18	13s49	1n 2	16s11	0s48	19s22	1n48	23s 5	0s 3	22s20	1n 4	1n40	16n21	13n50	13n29	20n10	17n 0	5s 5	5s 5