



Astrodienst Ephemeris Tables for the year 1986

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 1986
geocentric

JANUARY 1986

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	6 41 24	10 ³ 15'58	5 ¹¹ 4	22 ² 53	5 ³ 48	10 ¹¹ 34	18 ¹¹ 15	5 ² 10	19 ² 30	3 ³ 35	6 ¹¹ 55	6 ¹ 49	5 ⁸ 49	23 ⁸ 37	10 ¹⁰ 26	W 1
T 2	6 45 21	11 ¹ 17'07	18 ² 21	24 ² 20	7 ¹ 4	11 ¹ 11	18 ² 28	5 ¹ 16	19 ² 33	3 ³ 37	6 ¹ 56	6 ¹ 44	5 ¹ 46	23 ³ 44	10 ¹¹ 23	T 2
F 3	6 49 17	12 ¹ 18'16	1 ¹ 50	25 ² 47	8 ¹ 19	11 ¹ 48	18 ² 41	5 ¹ 22	19 ² 37	3 ³ 40	6 ¹ 57	6 ¹ 41	5 ¹ 43	23 ³ 51	10 ¹² 0	F 3
S 4	6 53 14	13 ¹ 19'25	15 ² 34	27 ² 15	9 ¹ 35	12 ² 24	18 ² 54	5 ¹ 28	19 ² 40	3 ³ 42	6 ¹ 59	6 ¹ D41	5 ¹ 40	23 ³ 57	10 ¹² 17	S 4
S 5	6 57 10	14 ² 20'35	29 ² 34	28 ² 43	10 ² 50	13 ² 1	19 ² 7	5 ¹ 34	19 ² 44	3 ³ 44	7 ¹ 0	6 ¹ R41	5 ¹ 37	24 ² 4	10 ¹³ 14	S 5
M 6	7 1 7	15 ² 21'45	13 ² 11	0 ³ 12	12 ² 6	13 ² 37	19 ² 20	5 ¹ 40	19 ² 47	3 ³ 46	7 ¹ 1	6 ¹ 41	5 ¹ 33	24 ² 11	10 ¹³ 12	M 6
T 7	7 5 3	16 ² 22'55	28 ² 18	1 ³ 42	13 ² 21	14 ² 14	19 ² 33	5 ¹ 46	19 ² 51	3 ³ 49	7 ¹ 2	6 ¹ 39	5 ¹ 30	24 ² 17	10 ¹³ 9	T 7
W 8	7 9 0	17 ² 24'06	12 ² 15	3 ³ 12	14 ² 37	14 ² 50	19 ² 46	5 ¹ 52	19 ² 54	3 ³ 51	7 ¹ 3	6 ¹ 35	5 ¹ 27	24 ² 24	10 ¹³ 6	W 8
T 9	7 12 57	18 ² 25'16	27 ² 44	4 ⁴ 2	15 ² 52	15 ² 27	20 ² 0	5 ¹ 58	19 ² 57	3 ³ 53	7 ¹ 5	6 ¹ 28	5 ¹ 24	24 ² 30	10 ¹³ 4	T 9
F 10	7 16 53	19 ² 26'26	12 ² 27	6 ¹ 13	17 ² 8	16 ² 3	20 ² 13	6 ¹ 4	20 ² 1	3 ³ 55	7 ¹ 6	6 ¹ 18	5 ¹ 21	24 ² 37	10 ¹³ 1	F 10
S 11	7 20 50	20 ² 27'37	26 ² 59	7 ¹ 45	18 ² 23	16 ² 40	20 ² 26	6 ¹ 10	20 ² 4	3 ³ 58	7 ¹ 7	6 ¹ 6	5 ¹ 18	24 ² 44	9 ¹ 59	S 11
S 12	7 24 46	21 ² 28'46	11 ² 15	9 ¹ 17	19 ² 39	17 ² 16	20 ² 40	6 ¹ 16	20 ² 7	4 ¹ 0	7 ¹ 8	5 ¹ 54	5 ¹ 14	24 ² 50	9 ¹ 57	S 12
M13	7 28 43	22 ² 29'56	25 ² 7	10 ² 49	20 ² 54	17 ² 52	20 ² 53	6 ¹ 21	20 ² 10	4 ¹ 2	7 ¹ 9	5 ¹ 43	5 ¹ 11	24 ² 57	9 ¹ 54	M13
T 14	7 32 39	23 ² 31'04	8 ² 32	12 ² 22	22 ² 10	18 ² 29	21 ² 7	6 ¹ 27	20 ² 14	4 ¹ 4	7 ¹ 10	5 ¹ 34	5 ¹ 8	25 ² 4	9 ¹ 52	T 14
W15	7 36 36	24 ² 32'12	21 ² 32	13 ² 55	23 ² 25	19 ² 5	21 ² 20	6 ¹ 33	20 ² 17	4 ¹ 6	7 ¹ 11	5 ¹ 27	5 ¹ 5	25 ² 10	9 ¹ 50	W15
T 16	7 40 32	25 ² 33'20	4 ² 18	15 ² 29	24 ² 41	19 ² 41	21 ² 34	6 ¹ 38	20 ² 20	4 ¹ 8	7 ¹ 11	5 ¹ 23	5 ¹ 2	25 ² 17	9 ¹ 48	T 16
F 17	7 44 29	26 ² 34'26	16 ² 23	17 ² 4	25 ² 56	20 ² 17	21 ² 48	6 ¹ 43	20 ² 23	4 ¹ 11	7 ¹ 12	5 ¹ 21	4 ¹ 58	25 ² 24	9 ¹ 46	F 17
S 18	7 48 26	27 ² 35'32	28 ² 24	18 ² 38	27 ² 12	20 ² 53	22 ² 2	6 ¹ 49	20 ² 26	4 ¹ 13	7 ¹ 13	5 ¹ 21	4 ¹ 55	25 ² 30	9 ¹ 44	S 18
S 19	7 52 22	28 ² 36'37	10 ² 15	20 ² 14	28 ² 27	21 ² 29	22 ² 15	6 ¹ 54	20 ² 29	4 ¹ 15	7 ¹ 14	5 ¹ 21	4 ¹ 52	25 ² 37	9 ¹ 42	S 19
M20	7 56 19	29 ² 37'41	22 ² 2	21 ² 50	29 ² 42	22 ² 5	22 ² 29	6 ¹ 59	20 ² 32	4 ¹ 17	7 ¹ 15	5 ¹ 20	4 ¹ 49	25 ² 44	9 ¹ 40	M20
T 21	8 0 15	0 ³ 38'45	3 ² 11	23 ² 26	0 ³ 58	22 ² 41	22 ² 43	7 ¹ 5	20 ² 35	4 ¹ 19	7 ¹ 15	5 ¹ 17	4 ¹ 46	25 ² 50	9 ¹ 38	T 21
W22	8 4 12	1 ³ 39'47	15 ² 46	25 ² 3	2 ³ 13	23 ² 17	22 ² 57	7 ¹ 10	20 ² 38	4 ¹ 21	7 ¹ 16	5 ¹ 12	4 ¹ 43	25 ² 57	9 ¹ 36	W22
T 23	8 8 8	2 ³ 40'49	27 ² 51	26 ² 41	3 ² 29	23 ² 53	23 ² 11	7 ¹ 15	20 ² 41	4 ¹ 23	7 ¹ 17	5 ¹ 3	4 ¹ 39	26 ² 4	9 ¹ 34	T 23
F 24	8 12 5	3 ³ 41'50	10 ² 8	28 ² 19	4 ² 44	24 ² 29	23 ² 25	7 ¹ 20	20 ² 44	4 ¹ 25	7 ¹ 17	4 ¹ 52	4 ¹ 36	26 ² 10	9 ¹ 33	F 24
S 25	8 16 2	4 ² 42'50	22 ² 41	29 ² 58	5 ² 59	25 ² 5	23 ² 39	7 ¹ 25	20 ² 47	4 ¹ 27	7 ¹ 18	4 ¹ 39	4 ¹ 33	26 ² 17	9 ¹ 31	S 25
S 26	8 19 58	5 ² 43'49	5 ² 28	1 ³ 37	7 ¹ 15	25 ² 41	23 ² 53	7 ¹ 30	20 ² 50	4 ¹ 29	7 ¹ 18	4 ¹ 25	4 ¹ 30	26 ² 24	9 ¹ 30	S 26
M27	8 23 55	6 ² 44'47	18 ² 30	3 ¹ 17	8 ² 30	26 ² 17	24 ² 7	7 ¹ 34	20 ² 53	4 ¹ 31	7 ¹ 19	4 ¹ 11	4 ¹ 27	26 ² 30	9 ¹ 28	M27
T 28	8 27 51	7 ² 45'44	1 ¹ 45	4 ² 58	9 ² 46	26 ² 52	24 ² 21	7 ¹ 39	20 ² 56	4 ¹ 33	7 ¹ 19	3 ² 59	4 ¹ 24	26 ² 37	9 ¹ 27	T 28
W29	8 31 48	8 ² 46'41	15 ² 11	6 ² 39	11 ² 1	27 ² 28	24 ² 35	7 ¹ 44	20 ² 59	4 ¹ 35	7 ¹ 20	3 ² 50	4 ¹ 20	26 ² 44	9 ¹ 26	W29
T 30	8 35 44	9 ² 47'36	28 ² 46	8 ² 21	12 ² 16	28 ² 4	24 ² 49	7 ¹ 48	21 ² 1	4 ¹ 37	7 ¹ 20	3 ² 43	4 ¹ 17	26 ² 50	9 ¹ 24	T 30
F 31	8 39 41	10 ² 48'31	12 ² 29	10 ² 4	13 ² 32	28 ² 13	25 ² 3	7 ¹ 53	21 ² 4	4 ¹ 39	7 ¹ 20	3 ² 39	4 ¹ 14	26 ² 57	9 ¹ 23	F 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	23s 3	13n48	4n28	22s58	0n17	23s39	0s20	14s 1	1n 2	16s 7	0s48	19s23	1n48	23s 5	0s 3	22s20	1n 4	1n40	16n21	13n47	13n28	20n12	17n 0	5s 4					
T 2	22 58	8 6	3 48	23 10	0 9	23 37	0 22	14 13	1 1	16 3	0 48	19 24	1 48	23 5	0 3	22 20	1 4	1 40	16 22	13 46	13 27	20 15	16 59	5 4					
F 3	22 52	1 56	2 54	23 21	0 2	23 35	0 25	14 24	1 1	15 59	0 48	19 25	1 48	23 6	0 3	22 20	1 4	1 40	16 22	13 45	13 26	20 17	16 59	5 4					
S 4	22 47	4s26	1 50	23 31	0s 6	23 33	0 27	14 36	1 1	15 55	0 48	19 26	1 49	23 6	0 3	22 20	1 4	1 40	16 23	13 45	13 25	20 20	16 59	5 4					
S 5	22 40	10 44	0 38	23 39	0 13	23 29	0 29	14 47	1 0	15 51	0 48	19 27	1 49	23 6	0 3	22 20	1 4	1 40	16 23	13 45	13 24	20 22	16 58	5 4					
M 6	22 33	16 35	0s38	23 47	0 20	23 25	0 31	14 58	1 0	15 47	0 48	19 28	1 49	23 6	0 4	22 20	1 4	1 40	16 24	13 45	13 23	20 25	16 58	5 4					
T 7	22 26	21 37	1 52	23 53	0 27	23 20	0 34	15 10	1 0	15 43	0 48	19 29	1 49	23 7	0 4	22 20	1 4	1 40	16 24	13 44	13 22	20 27	16 58	5 4					
W 8	22 19	25 20	3 0	23 58	0 34	23 14	0 36	15 21	0 59	15 39	0 48	19 30	1 49	23 7	0 4	22 20	1 4	1 40	16 25	13 43	13 20	20 30	16 58	5 4					
T 9	22 11	27 21	3 56	24 2	0 41	23 8	0 38	15 32	0 59	15 35	0 48	19 31	1 49	23 7	0 4	22 19	1 4	1 41	16 25	13 41	13 19	20 32	16 58	5 3					
F 10	22 2	27 26	4 36	24 5	0 47	23 0	0 40	15 42	0 59	15 31	0 48	19 32	1 49	23 8	0 4	22 19	1 4	1 41	16 26	13 37	13 18	20 35	16 57	5 3					
S 11	21 53	25 38	4 58	24 6	0 53	22 53	0 42	15 53	0 58	15 26	0 48	19 33	1 49	23 8	0 4	22 19	1 4	1 41	16 26	13 34	13 17	20 37	16 57	5 3					
S 12	21 44	22 12	5 0	24 6	0 59	22 44	0 44	16 4	0 58	15 22	0 48	19 34	1 49	23 8	0 4	22 19	1 4	1 41	16 27	13 29	13 16	20 40	16 57	5 3					
M13	21 34	17 37	4 44	24 5	1 5	22 35	0 46	16 14	0 58	15 18	0 48	19 35	1 49	23 8	0 4	22 19	1 4	1 41	16 27	13 26	13 15	20 42	16 57	5 3					
T 14	21 24	12 17	4 13	24 3	1 11	22 25	0 48	16 25	0 57	15 13	0 48	19 36	1 49	23 9	0 4	22 19	1 4	1 41	16 28	13 23	13 14	20 44	16 57	5 3					
W15	21 13	6 34	3 30	23 59	1 16	22 14	0 50	16 35	0 57	15 9	0 48	19 37	1 49	23 9	0 4	22 19	1 4	1 42	16 28	13 20	13 13	20 47	16 56	5 2					
T 16	21 2	0 46	2 37	23 54	1 22	22 3	0 52	16 45	0 56	15 5	0 48	19 37	1 49	23 9	0 4	22 19	1 4	1 42	16 29	13 19	13 12	20 49	16 56	5 2					
F 17	20 51	4n56	1 39	23 47	1 27	21 51	0 54	16 55	0 56	15 0	0 48	19 38	1 50	23 9	0 4	22 19	1 4	1 42	16 29	13 19	13 11	20 52	16 56	5 2					
S 18	20 39	10 20	0 37	23 39	1 31	21 38	0 56	17 5	0 56	14 56	0 48	19 39	1 50	23 10	0 4	22 19	1 4	1 42	16 30	13 18	13 10	20 54	16 56	5 2					
S 19	20 27	15 18	0n26	23 30	1 36	21 25	0 58	17 15	0 55	14 51	0 48	19 40	1 50	23 10	0 4	22 19	1 4	1 43	16 30	13 18	13 9	20 56	16 56	5 2					
M20	20 14	19 41	1 27	23 19	1 40	21 11	0 59	17 25	0 55	14 47	0 48	19 41	1 50	23 10	0 4	22 19	1 4	1 43	16 31	13 18	13 8	20 59	16 56	5 1					
T 21	20 1	23 17	2 25	23 7	1 44	20 56	1 1	17 34	0 54	14 42	0 48	19 41	1 50	23 10	0 4	22 19	1 4	1 43	16 31	13 17	13 7	21 1	16 56	5 1					
W22	19 48	25 56	3 16	22 53	1 47	20 41	1 3	17 44	0 54	14 38	0 48	19 42	1 50	23 10	0 4	22 19	1 4	1 44	16 32	13 15	13 6	21 4	16 56	5 1					
T 23	19 34	27 25	4 0	22 38	1 51	20 25	1 4	17 53	0 53	14 33	0 48	19 43	1 50	23 11	0 4	22 18	1 4	1 44	16 32	13 13	13 5	21 6	16 56	5 1					
F 24	19 20	27 35	4 33	22 21	1 54	20 9	1 6	18 2	0 53	14 29	0 48	19 44	1 50	23 11	0 4	22 18	1 4	1 44	16 33	13 9	13 3	21 8	16 56	5 1					
S 25	19 5	26 21	4 53	22 3	1 56	19 52	1 8	18 12	0 52	14 24	0 48	19 44	1 50	23 11	0 4	22 18	1 4	1 44	16 33	13 4	13 2	21 11	16 56	5 0					
S 26	18 50	23 45	5 0	21 44	1 59	19 34	1 9	18 21	0 52	14 19	0 48	19 45	1 50	23 11	0 4	22 18	1 4	1 45	16 34	13 0	13 1	21 13	16 56	5 0					
M27	18 35	19 53	4 51	21 23	2 1	19 16	1 10	18 29	0 51	14 15	0 48	19 46	1 50	23 12	0 4	22 18	1 4	1 45	16 35	12 55	13 0	21 16	16 56	5 0					
T 28	18 20	14 59	4 26	21 0	2 2	18 58	1 12	18 38	0 51	14 10	0 48	19 46	1 51	23 12	0 4	22 18	1 4	1 46	16 35	12 51	12 59	21 18	16 56	5 0					
W29	18 4	9 19	3 46	20 36	2 4	18 38	1 13	18 47	0 50	14 5	0 48	19 47	1 51	23 12	0 4	22 18	1 4	1 46	16 36	12 48	12 58	21 20	16 56	5 0					
T 30	17 48	3 8	2 53	20 11	2 4	18 19	1 14	18 55	0 50	14 1	0 49	19 47	1 51	23 12	0 4	22 18	1 4	1 46	16 36	12 46	12 57	21 23	16 56	4 59					
F 31	17s32	3s15	1n49	19s44	2s 5	17s58	1s16	19s 4	0n49	13s56	0s49	19s48	1n51	23s12	0s 4	22s18	1n 4	1n47	16n37	12n44	12n56	21n25	16n56	4s59					

ASTRODIENST EPHEMERIS for the year 1986

geocentric

FEBRUARY 1986

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 43 37	11 ⁴⁹ 26	26 ²⁰ 20	11 ⁴⁷ 47	14 ⁴⁸ 47	29 ¹¹ 15	25 ⁴⁸ 18	7 ⁵⁷ 57	21 ⁷ 7	4 ⁴¹ 41	7 ²¹ 21	3 ³⁸ 38	4 ¹¹ 11	27 ⁸ 4	9 ²² 22	S 1
S 2	8 47 34	12 ⁵⁰ 19	10 ¹⁸ 18	13 ³¹ 31	16 ² 2	29 ⁵⁰ 50	25 ³² 32	8 ¹ 1	21 ⁹ 9	4 ⁴³ 43	7 ²¹ 21	3 ³⁸ 38	4 ⁸ 8	27 ¹⁰ 10	9 ²¹ 21	S 2
M 3	8 51 30	13 ⁵¹ 12	24 ²³ 23	15 ¹⁶ 16	17 ¹⁸ 18	0 ²⁶ 26	25 ⁴⁶ 46	8 ⁶ 6	21 ¹² 12	4 ⁴⁵ 45	7 ²¹ 21	3 ³⁸ 38	4 ⁴ 4	27 ¹⁷ 17	9 ²⁰ 20	M 3
T 4	8 55 27	14 ⁵² 04	8 ³⁴ 34	17 ² 2	18 ³³ 33	1 ¹ 1	26 ⁰ 0	8 ¹⁰ 10	21 ¹⁴ 14	4 ⁴⁷ 47	7 ²¹ 21	3 ³⁶ 36	4 ¹ 1	27 ²⁴ 24	9 ¹⁹ 19	T 4
W 5	8 59 24	15 ⁵² 55	22 ⁵⁰ 50	18 ⁴⁸ 48	19 ⁴⁸ 48	1 ³⁷ 37	26 ¹⁵ 15	8 ¹⁴ 14	21 ¹⁷ 17	4 ⁴⁸ 48	7 ²¹ 21	3 ³² 32	3 ⁵⁸ 58	27 ³⁰ 30	9 ¹⁸ 18	W 5
T 6	9 3 20	16 ⁵³ 46	7 ⁸ 8	20 ³⁴ 34	21 ³ 3	2 ¹² 12	26 ²⁹ 29	8 ¹⁸ 18	21 ¹⁹ 19	4 ⁵⁰ 50	7 ²² 22	3 ²⁵ 25	3 ⁵⁵ 55	27 ³⁷ 37	9 ¹⁸ 18	T 6
F 7	9 7 17	17 ⁵⁴ 35	21 ²⁴ 24	22 ²² 22	22 ¹⁹ 19	2 ⁴⁷ 47	26 ⁴³ 43	8 ²² 22	21 ²² 22	4 ⁵² 52	7 ²² 22	3 ¹⁵ 15	3 ⁵² 52	27 ⁴⁴ 44	9 ¹⁷ 17	F 7
S 8	9 11 13	18 ⁵⁵ 24	5 ³² 32	24 ¹⁰ 10	23 ³⁴ 34	3 ²² 22	26 ⁵⁸ 58	8 ²⁶ 26	21 ²⁴ 24	4 ⁵⁴ 54	7 ²² 22	3 ³ 3	3 ⁴⁹ 49	27 ⁵⁰ 50	9 ¹⁶ 16	S 8
S 9	9 15 10	19 ⁵⁶ 11	19 ²⁷ 27	25 ⁵⁸ 58	24 ⁴⁹ 49	3 ⁵⁸ 58	27 ¹² 12	8 ²⁹ 29	21 ²⁶ 26	4 ⁵⁶ 56	7 ²² 22	2 ⁵¹ 51	3 ⁴⁵ 45	27 ⁵⁷ 57	9 ¹⁶ 16	S 9
M10	9 19 6	20 ⁵⁶ 56	3 ⁴ 4	27 ⁴⁷ 47	26 ⁴ 4	4 ³³ 33	27 ²⁶ 26	8 ³³ 33	21 ²⁹ 29	4 ⁵⁷ 57	7 ²² 22	2 ³⁹ 39	3 ⁴² 42	28 ³ 3	9 ¹⁵ 15	M10
T 11	9 23 3	21 ⁵⁷ 41	16 ²² 22	29 ³⁶ 36	27 ²⁰ 20	5 ⁸ 8	27 ⁴¹ 41	8 ³⁶ 36	21 ³¹ 31	4 ⁵⁹ 59	7 ²² 22	2 ³⁰ 30	3 ³⁹ 39	28 ¹⁰ 10	9 ¹⁵ 15	T 11
W12	9 27 0	22 ⁵⁸ 23	29 ¹⁷ 17	1 ²⁵ 25	28 ³⁵ 35	5 ⁴³ 43	27 ⁵⁵ 55	8 ⁴⁰ 40	21 ³³ 33	5 ¹ 1	7 ²² 22	2 ²² 22	3 ³⁶ 36	28 ¹⁷ 17	9 ¹⁵ 15	W12
T 13	9 30 56	23 ⁵⁹ 05	11 ⁵² 52	3 ¹⁴ 14	29 ⁵⁰ 50	6 ¹⁷ 17	28 ⁹ 9	8 ⁴³ 43	21 ³⁵ 35	5 ² 2	7 ²¹ 21	2 ¹⁸ 18	3 ³³ 33	28 ²³ 23	9 ¹⁵ 15	T 13
F 14	9 34 53	24 ⁵⁹ 44	24 ⁸ 8	5 ³ 3	1 ⁵ 5	6 ⁵² 52	28 ²⁴ 24	8 ⁴⁷ 47	21 ³⁸ 38	5 ⁴ 4	7 ²¹ 21	2 ¹⁶ 16	3 ²⁹ 29	28 ³⁰ 30	9 ¹⁴ 14	F 14
S 15	9 38 49	26 ⁰ 22	6 ¹¹ 11	6 ⁵² 52	2 ²⁰ 20	7 ²⁷ 27	28 ³⁸ 38	8 ⁵⁰ 50	21 ⁴⁰ 40	5 ⁶ 6	7 ²¹ 21	2 ¹⁵ 15	3 ²⁶ 26	28 ³⁷ 37	9 ¹⁴ 14	S 15
S 16	9 42 46	27 ⁰ 59	18 ³ 3	8 ⁴⁰ 40	3 ³⁶ 36	8 ² 2	28 ⁵³ 53	8 ⁵³ 53	21 ⁴² 42	5 ⁷ 7	7 ²¹ 21	2 ¹⁶ 16	3 ²³ 23	28 ⁴³ 43	9 ¹⁴ 14	S 16
M17	9 46 42	28 ¹ 33	29 ⁵² 52	10 ²⁸ 28	4 ⁵¹ 51	8 ³⁶ 36	29 ⁷ 7	8 ⁵⁶ 56	21 ⁴⁴ 44	5 ⁹ 9	7 ²¹ 21	2 ¹⁶ 16	3 ²⁰ 20	28 ⁵⁰ 50	9 ¹⁴ 14	M17
T 18	9 50 39	29 ² 06	11 ⁴² 42	12 ¹⁴ 14	6 ⁶ 6	9 ¹¹ 11	29 ²² 22	8 ⁵⁹ 59	21 ⁴⁶ 46	5 ¹⁰ 10	7 ²⁰ 20	2 ¹⁵ 15	3 ¹⁷ 17	28 ⁵⁷ 57	9 ¹⁵ 15	T 18
W19	9 54 35	0 ²³ 23	23 ³⁸ 38	13 ⁵⁹ 59	7 ²¹ 21	9 ⁴⁵ 45	29 ³⁶ 36	9 ² 2	21 ⁴⁷ 47	5 ¹² 12	7 ²⁰ 20	2 ¹² 12	3 ¹⁴ 14	29 ³ 3	9 ¹⁵ 15	W19
T 20	9 58 32	1 ³ 07	5 ⁴⁶ 46	15 ⁴² 42	8 ³⁶ 36	10 ²⁰ 20	29 ⁵⁰ 50	9 ⁵ 5	21 ⁴⁹ 49	5 ¹³ 13	7 ²⁰ 20	2 ⁷ 7	3 ¹⁰ 10	29 ¹⁰ 10	9 ¹⁵ 15	T 20
F 21	10 2 29	2 ³ 35	18 ⁹ 9	17 ²² 22	9 ⁵¹ 51	10 ⁵⁴ 54	0 ⁵ 5	9 ⁷ 7	21 ⁵¹ 51	5 ¹⁵ 15	7 ¹⁹ 19	1 ⁵⁹ 59	3 ⁷ 7	29 ¹⁷ 17	9 ¹⁶ 16	F 21
S 22	10 6 25	3 ⁴ 00	0 ⁵¹ 51	19 ⁰ 0	11 ⁶ 6	11 ²⁸ 28	0 ¹⁹ 19	9 ¹⁰ 10	21 ⁵³ 53	5 ¹⁶ 16	7 ¹⁹ 19	1 ⁵⁰ 50	3 ⁴ 4	29 ²³ 23	9 ¹⁶ 16	S 22
S 23	10 10 22	4 ⁴ 24	13 ⁵² 52	20 ³⁴ 34	12 ²¹ 21	12 ³ 3	0 ³⁴ 34	9 ¹² 12	21 ⁵⁵ 55	5 ¹⁸ 18	7 ¹⁸ 18	1 ³⁹ 39	3 ¹ 1	29 ³⁰ 30	9 ¹⁷ 17	S 23
M24	10 14 18	5 ⁴ 46	27 ¹² 12	22 ³ 3	13 ³⁶ 36	12 ³⁷ 37	0 ⁴⁸ 48	9 ¹⁵ 15	21 ⁵⁶ 56	5 ¹⁹ 19	7 ¹⁸ 18	1 ²⁹ 29	2 ⁵⁸ 58	29 ³⁷ 37	9 ¹⁷ 17	M24
T 25	10 18 15	6 ⁵ 07	10 ⁵⁰ 50	23 ²⁹ 29	14 ⁵¹ 51	13 ¹¹ 11	1 ² 2	9 ¹⁷ 17	21 ⁵⁸ 58	5 ²⁰ 20	7 ¹⁷ 17	1 ²⁰ 20	2 ⁵⁵ 55	29 ⁴³ 43	9 ¹⁸ 18	T 25
W26	10 22 11	7 ⁵ 25	24 ⁴¹ 41	24 ⁴⁹ 49	16 ⁶ 6	13 ⁴⁵ 45	1 ¹⁷ 17	9 ¹⁹ 19	21 ⁵⁹ 59	5 ²² 22	7 ¹⁷ 17	1 ¹³ 13	2 ⁵¹ 51	29 ⁵⁰ 50	9 ¹⁹ 19	W26
T 27	10 26 8	8 ⁵ 42	8 ⁴³ 43	26 ³ 3	17 ²¹ 21	14 ¹⁹ 19	1 ³¹ 31	9 ²¹ 21	22 ¹ 1	5 ²³ 23	7 ¹⁶ 16	1 ⁸ 8	2 ⁴⁸ 48	29 ⁵⁷ 57	9 ¹⁹ 19	T 27
F 28	10 30 4	9 ⁵ 58	22 ⁵¹ 51	27 ¹⁰ 10	18 ³⁶ 36	14 ⁵² 52	1 ⁴⁵ 45	9 ²³ 23	22 ² 2	5 ²⁴ 24	7 ¹⁵ 15	1 ⁸ 8	2 ⁴⁵ 45	0 ¹¹ 11	9 ²⁰ 20	F 28

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
S 1	17s15	9s34	0n39	19s15	2s 5	17s38	1s17	19s12	0n49	13s51	0s49	19s49	1n51	23s12	0s 4	S 1
S 2	16 58	15 28	0s35	18 45	2 5	17 16	1 18	19 20	0 48	13 47	0 49	19 49	1 51	23 13	0 4	S 2
M 3	16 40	20 36	1 47	18 14	2 4	16 54	1 19	19 28	0 48	13 42	0 49	19 50	1 51	23 13	0 4	M 3
T 4	16 23	24 35	2 54	17 41	2 2	16 32	1 20	19 36	0 47	13 37	0 49	19 50	1 51	23 13	0 4	T 4
W 5	16 5	27 4	3 49	17 6	2 1	16 9	1 21	19 44	0 46	13 32	0 49	19 51	1 51	23 13	0 4	W 5
T 6	15 46	27 45	4 30	16 30	1 58	15 46	1 22	19 51	0 46	13 27	0 49	19 51	1 52	23 13	0 4	T 6
F 7	15 28	26 36	4 55	15 53	1 55	15 23	1 22	19 59	0 45	13 22	0 49	19 52	1 52	23 14	0 4	F 7
S 8	15 9	23 45	5 1	15 14	1 52	14 59	1 23	20 6	0 45	13 18	0 49	19 52	1 52	23 14	0 4	S 8
S 9	14 50	19 33	4 49	14 34	1 48	14 34	1 24	20 13	0 44	13 13	0 49	19 53	1 52	23 14	0 4	S 9
M10	14 31	14 25	4 20	13 52	1 44	14 9	1 25	20 21	0 43	13 8	0 49	19 54	1 52	23 14	0 4	M10
T 11	14 11	8 44	3 38	13 9	1 38	13 44	1 25	20 27	0 43	13 3	0 49	19 54	1 52	23 14	0 4	T 11
W12	13 52	2 49	2 46	12 25	1 33	13 18	1 26	20 34	0 42	12 58	0 49	19 54	1 52	23 14	0 4	W12
T 13	13 32	3n 4	1 46	11 40	1 26	12 52	1 26	20 41	0 41	12 53	0 49	19 54	1 52	23 15	0 4	T 13
F 14	13 12	8 42	0 43	10 53	1 19	12 26	1 26	20 48	0 41	12 48	0 49	19 55	1 53	23 15	0 4	F 14
S 15	12 51	13 55	0n21	10 6	1 12	11 59	1 27	20 54	0 40	12 43	0 49	19 55	1 53	23 15	0 4	S 15
S 16	12 31	18 33	1 23	9 18	1 3	11 33	1 27	21 0	0 39	12 38	0 49	19 56	1 53	23 15	0 4	S 16
M17	12 10	22 26	2 22	8 29	0 54	11 5	1 27	21 6	0 39	12 33	0 49	19 56	1 53	23 15	0 4	M17
T 18	11 49	25 24	3 14	7 39	0 44	10 38	1 27	21 12	0 38	12 28	0 49	19 56	1 53	23 15	0 4	T 18
W19	11 28	27 16	3 59	6 49	0 34	10 10	1 27	21 18	0 37	12 23	0 50	19 56	1 53	23 15	0 4	W19
T 20	11 6	27 52	4 33	5 59	0 23	9 42	1 27	21 24	0 36	12 18	0 50	19 57	1 53	23 15	0 4	T 20
F 21	10 45	27 6	4 56	5 10	0 11	9 13	1 27	21 30	0 36	12 13	0 50	19 57	1 54	23 16	0 4	F 21
S 22	10 23	24 55	5 4	4 20	0n 1	8 45	1 27	21 35	0 35	12 8	0 50	19 57	1 54	23 16	0 4	S 22
S 23	10 1	21 25	4 58	3 31	0 14	8 16	1 27	21 41	0 34	12 3	0 50	19 58	1 54	23 16	0 4	S 23
M24	9 39	16 44	4 35	2 44	0 28	7 47	1 27	21 46	0 33	11 58	0 50	19 58	1 54	23 16	0 4	M24
T 25	9 17	11 9	3 56	1 57	0 42	7 18	1 26	21 51	0 32	11 53	0 50	19 58	1 54	23 16	0 4	T 25
W26	8 55	4 54	3 2	1 13	0 56	6 48	1 26	21 56	0 31	11 48	0 50	19 58	1 54	23 16	0 4	W26
T 27	8 32	1s40	1 57	0 30	1 10	6 19	1 25	22 1	0 31	11 43	0 50	19 58	1 54	23 16	0 4	T 27
F 28	8s10	8s12	0n44	0n10	1n25	5s49	1s25	22s 6	0n30	11s38	0s50	19s58	1n55	23s16	0s 4	F 28

Julian Day Number = 2446462.5, Delta T = 54.91 sec

Ecliptic obliquity = 23°

ASTRODIENST EPHEMERIS for the year 1986
geocentric

MARCH 1986

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	10 34 1	10♈6'12	7♎2	28♋11	19♌51	15♍26	2♈0	9♎25	22♏4	5♊25	7°R15	1°D 6	2♊42	0♈10	9♉21	S 1
S 2	10 37 57	11° 6'25	21°14	29° 3	21° 5	16° 0	2°14	9°27	22° 5	5°27	7♎14	1♊7	2°39	0°17	9°22	S 2
M 3	10 41 54	12° 6'36	5♍23	29°48	22°20	16°33	2°29	9°29	22° 6	5°28	7°13	1°R 8	2°35	0°23	9°23	M 3
T 4	10 45 51	13° 6'45	19°30	0♈24	23°35	17° 7	2°43	9°30	22° 8	5°29	7°12	1° 8	2°32	0°30	9°25	T 4
W 5	10 49 47	14° 6'54	3♊33	0°51	24°50	17°40	2°57	9°32	22° 9	5°30	7°12	1° 6	2°29	0°37	9°26	W 5
T 6	10 53 44	15° 7'00	17°29	1° 9	26° 5	18°13	3°11	9°33	22°10	5°31	7°11	1° 2	2°26	0°43	9°27	T 6
F 7	10 57 40	16° 7'05	1♋19	1°R18	27°20	18°46	3°26	9°34	22°11	5°32	7°10	0°56	2°23	0°50	9°29	F 7
S 8	11 1 37	17° 7'09	14°59	1°18	28°34	19°19	3°40	9°36	22°12	5°33	7° 9	0°49	2°20	0°57	9°30	S 8
S 9	11 5 33	18° 7'10	28°27	1° 8	29°49	19°52	3°54	9°37	22°13	5°34	7° 8	0°42	2°16	1° 3	9°32	S 9
M10	11 9 30	19° 7'10	11♋41	0°50	1°Y 4	20°25	4° 8	9°38	22°14	5°35	7° 7	0°35	2°13	1°10	9°33	M10
T 11	11 13 26	20° 7'08	24°39	0°24	2°18	20°58	4°22	9°39	22°15	5°36	7° 6	0°28	2°10	1°17	9°35	T 11
W12	11 17 23	21° 7'04	7°Y21	29♋50	3°33	21°31	4°37	9°39	22°16	5°37	7° 5	0°24	2° 7	1°23	9°37	W12
T 13	11 21 20	22° 6'58	19°47	29°10	4°48	22° 3	4°51	9°40	22°17	5°38	7° 4	0°22	2° 4	1°30	9°38	T 13
F 14	11 25 16	23° 6'49	1♊59	28°24	6° 2	22°35	5° 5	9°41	22°18	5°39	7° 3	0°D21	2° 1	1°37	9°40	F 14
S 15	11 29 13	24° 6'39	14° 0	27°34	7°17	23° 8	5°19	9°41	22°18	5°39	7° 2	0°22	1°57	1°43	9°42	S 15
S 16	11 33 9	25° 6'27	25°52	26°40	8°31	23°40	5°33	9°42	22°19	5°40	7° 1	0°24	1°54	1°50	9°44	S 16
M17	11 37 6	26° 6'12	7♎41	25°45	9°46	24°12	5°47	9°42	22°19	5°41	7° 0	0°25	1°51	1°57	9°46	M17
T 18	11 41 2	27° 5'55	19°31	24°48	11° 0	24°44	6° 1	9°42	22°20	5°42	6°58	0°27	1°48	2° 3	9°48	T 18
W19	11 44 59	28° 5'36	1♊28	23°52	12°15	25°16	6°15	9°R42	22°20	5°42	6°57	0°R27	1°45	2°10	9°51	W19
T 20	11 48 55	29° 5'15	13°36	22°58	13°29	25°47	6°29	9°42	22°21	5°43	6°56	0°26	1°41	2°17	9°53	T 20
F 21	11 52 52	0°Y 4'51	25°59	22° 6	14°44	26°19	6°43	9°42	22°21	5°43	6°55	0°23	1°38	2°23	9°55	F 21
S 22	11 56 49	1° 4'25	8♎43	21°17	15°58	26°50	6°56	9°42	22°22	5°44	6°54	0°20	1°35	2°30	9°58	S 22
S 23	12 0 45	2° 3'57	21°48	20°33	17°13	27°21	7°10	9°42	22°22	5°45	6°52	0°15	1°32	2°37	10° 0	S 23
M24	12 4 42	3° 3'27	5♎18	19°54	18°27	27°52	7°24	9°41	22°22	5°45	6°51	0°11	1°29	2°43	10° 3	M24
T 25	12 8 38	4° 2'54	19°10	19°20	19°41	28°23	7°37	9°41	22°22	5°46	6°50	0° 7	1°26	2°50	10° 5	T 25
W26	12 12 35	5° 2'19	3♊21	18°51	20°55	28°54	7°51	9°40	22°22	5°46	6°48	0° 4	1°22	2°57	10° 8	W26
T 27	12 16 31	6° 1'42	17°48	18°29	22°10	29°25	8° 5	9°39	22°22	5°46	6°47	0° 2	1°19	3° 3	10°11	T 27
F 28	12 20 28	7° 1'04	2♎23	18°12	23°24	29°55	8°18	9°39	22°R22	5°47	6°46	0°D 2	1°16	3°10	10°13	F 28
S 29	12 24 24	8° 0'23	17° 1	18° 1	24°38	0♊26	8°32	9°38	22°22	5°47	6°44	0° 3	1°13	3°17	10°16	S 29
S 30	12 28 21	8°59'41	1♎37	17°D56	25°52	0°56	8°45	9°37	22°22	5°47	6°43	0° 4	1°10	3°23	10°19	S 30
M31	12 32 18	9°Y58'56	16♎4	17♋57	27°Y 6	1♊26	8°Y59	9°Y36	22°Y22	5♊48	6♎41	0°Y 5	1°Y 6	3°Y30	10°Y22	M31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	7s47	14s22	0s32	0n48	1n39	5s19	1s24	22s10	0n29	11s33	0s50	19s59	1n55	23s16	0s 4	22s16	1n 4	2n 3	16n52	11n51	12n25	22n31	17n 3	4s52										
S 2	7 24	19 47	1 46	1 22	1 54	4 49	1 24	22 15	0 28	11 28	0 50	19 59	1 55	23 17	0 4	22 15	1 4	2 3	16 52	11 52	12 24	22 33	17 4	4 51										
M 3	7 1	24 3	2 54	1 52	2 8	4 19	1 23	22 19	0 27	11 23	0 50	19 59	1 55	23 17	0 4	22 15	1 4	2 4	16 53	11 52	12 22	22 35	17 4	4 51										
T 4	6 38	26 52	3 51	2 19	2 22	3 48	1 22	22 23	0 26	11 18	0 51	19 59	1 55	23 17	0 4	22 15	1 4	2 5	16 53	11 52	12 21	22 37	17 4	4 51										
W 5	6 15	27 57	4 34	2 42	2 35	3 18	1 21	22 27	0 25	11 13	0 51	19 59	1 55	23 17	0 4	22 15	1 5	2 5	16 54	11 52	12 20	22 40	17 5	4 50										
T 6	5 52	27 15	5 0	3 1	2 47	2 47	1 20	22 31	0 24	11 7	0 51	19 59	1 55	23 17	0 4	22 15	1 5	2 6	16 54	11 50	12 19	22 42	17 5	4 50										
F 7	5 29	24 53	5 8	3 15	2 58	2 17	1 19	22 35	0 23	11 2	0 51	19 59	1 56	23 17	0 4	22 15	1 5	2 7	16 54	11 48	12 18	22 44	17 6	4 50										
S 8	5 5	21 6	4 59	3 24	3 9	1 46	1 18	22 39	0 22	10 57	0 51	19 59	1 56	23 17	0 4	22 15	1 5	2 7	16 55	11 46	12 17	22 46	17 6	4 50										
S 9	4 42	16 17	4 33	3 28	3 18	1 15	1 17	22 42	0 21	10 52	0 51	19 59	1 56	23 17	0 4	22 15	1 5	2 8	16 55	11 43	12 16	22 48	17 7	4 49										
M10	4 18	10 47	3 53	3 28	3 25	0 44	1 16	22 46	0 20	10 47	0 51	19 59	1 56	23 17	0 4	22 15	1 5	2 9	16 56	11 41	12 15	22 50	17 7	4 49										
T 11	3 55	4 54	3 2	3 23	3 31	0 14	1 15	22 49	0 19	10 42	0 51	19 59	1 56	23 17	0 4	22 15	1 5	2 9	16 56	11 38	12 14	22 52	17 8	4 49										
W12	3 31	1n 3	2 2	3 13	3 35	0n17	1 13	22 52	0 18	10 37	0 51	19 59	1 56	23 17	0 4	22 15	1 5	2 10	16 57	11 37	12 13	22 55	17 8	4 49										
T 13	3 8	6 51	0 57	2 59	3 37	0 48	1 12	22 55	0 17	10 32	0 51	19 59	1 56	23 17	0 4	22 15	1 5	2 11	16 57	11 36	12 12	22 57	17 9	4 48										
F 14	2 44	12 18	0n 9	2 41	3 37	1 19	1 11	22 58	0 16	10 27	0 51	19 59	1 57	23 17	0 4	22 15	1 5	2 12	16 57	11 36	12 10	22 59	17 9	4 48										
S 15	2 20	17 13	1 14	2 19	3 35	1 50	1 9	23 1	0 15	10 22	0 52	19 59	1 57	23 18	0 4	22 15	1 5	2 12	16 58	11 36	12 9	23 1	17 10	4 48										
S 16	1 57	21 25	2 15	1 54	3 31	2 21	1 8	23 4	0 13	10 17	0 52	19 59	1 57	23 18	0 4	22 15	1 5	2 13	16 58	11 37	12 8	23 3	17 10	4 48										
M17	1 33	24 43	3 10	1 27	3 25	2 51	1 6	23 7	0 12	10 12	0 52	19 59	1 57	23 18	0 4	22 15	1 5	2 14	16 58	11 37	12 7	23 5	17 11	4 47										
T 18	1 9	26 58	3 57	0 58	3 18	3 22	1 5	23 9	0 11	10 7	0 52	19 59	1 57	23 18	0 4	22 14	1 5	2 14	16 59	11 38	12 6	23 7	17 11	4 47										
W19	0 45	28 0	4 34	0 27	3 9	3 53	1 3	23 12	0 10	10 2	0 52	19 59	1 57	23 18	0 4	22 14	1 5	2 15	16 59	11 38	12 5	23 9	17 12	4 47										
T 20	0 22	27 43	5 0	0s 4	2 58	4 23	1 1	23 14	0 9	9 57	0 52	19 58	1 57	23 18	0 4	22 14	1 5	2 16	16 59	11 37	12 4	23 11	17 13	4 47										
F 21	0n 2	26 4	5 12	0 36	2 46	4 54	0 59	23 16	0 7	9 52	0 52	19 58	1 58	23 18	0 4	22 14	1 5	2 16	17 0	11 37	12 3	23 14	17 13	4 46										
S 22	0 26	23 4	5 10	1 7	2 33	5 24	0 58	23 18	0 6	9 47	0 52	19 58	1 58	23 18	0 4	22 14	1 5	2 17	17 0	11 35	12 2	23 16	17 14	4 46										
S 23	0 49	18 50	4 51	1 37	2 19	5 54	0 56	23 20	0 5	9 42	0 52	19 58	1 58	23 18	0 4	22 14	1 5	2 18	17 0	11 34	12 1	23 18	17 14	4 46										
M24	1 13	13 33	4 17	2 6	2 4	6 24	0 54	23 22	0 3	9 37	0 53	19 58	1 58	23 18	0 4	22 14	1 5	2 19	17 1	11 32	11 59	23 20	17 15	4 46										
T 25	1 37	7 27	3 26	2 33	1 49	6 54	0 52	23 24	0 2	9 32	0 53	19 58	1 58	23 18	0 4	22 14	1 5	2 19	17 1	11 31	11 58	23 22	17 15	4 46										
W26	2 0	0 50	2 22	2 59	1 33	7 24	0 50	23 26	0 1	9 27	0 53	19 57	1 58	23 18	0 4	22 14	1 5	2 20	17 1	11 30	11 57	23 24	17 16	4 45										
T 27	2 24	5s57	1 7	3 22	1 18	7 53	0 48	23 27	0s 1	9 22	0 53	19 57	1 58	23 18	0 4	22 14	1 5	2 21	17 2	11 29	11 56	23 26	17 17	4 45										
F 28	2 47	12 30	0s13	3 43	1 2	8 23	0 46	23 29	0 2	9 17	0 53	19 57	1 58	23 18	0 5	22 14	1 5	2 21	17 2	11 29	11 55	23 28	17 17	4 45										
S 29	3 11	18 24	1 32	4 1	0 47	8 52	0 44	23 30	0 4	9 12	0 53	19 57	1 59	23 18	0 5	22 14	1 5	2 22	17 2	11 29	11 54	23 30	17 18	4 45										
S 30	3 34	23 21	2 45	4 17	0 32	9 21	0 41	23 31	0 5	9 7	0 53	19 56	1 59	23 18	0 5	22 14	1 5	2 23	17 2	11 30	11 53	23 32	17 18	4 44										
M31	3n57	26s29	3s47	4s30	0n17	9n50	0s39	23s33	0s 6	9s 2	0s53	19s56	1n59	23s18	0s 5	22s14	1n 5	2n23	17n 3	11n30	11n52	23n34	17n19	4s44										

ASTRODIENST EPHEMERIS for the year 1986
geocentric

APRIL 1986

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	12 36 14	10°58'11	0°21	18°3	28°20	1°56	9°12	9°R34	22°R22	5°48	6°R40	0°6	1°3	3°37	10°25	T 1
W 2	12 40 11	11°57'23	14°23	18°15	29°34	2°25	9°25	9°A33	22°A22	5°48	6°M38	0°R 6	1° 0	3°43	10°28	W 2
T 3	12 44 7	12°56'34	28°11	18°32	0°48	2°55	9°38	9°32	22°21	5°48	6°37	0° 6	0°57	3°50	10°31	T 3
F 4	12 48 4	13°55'42	11°44	18°53	2° 2	3°24	9°52	9°30	22°21	5°48	6°35	0° 5	0°54	3°57	10°34	F 4
S 5	12 52 0	14°54'49	25° 3	19°20	3°16	3°53	10° 5	9°29	22°21	5°49	6°34	0° 3	0°51	4° 3	10°38	S 5
S 6	12 55 57	15°53'55	8°6	19°50	4°30	4°22	10°18	9°27	22°20	5°49	6°32	0° 1	0°47	4°10	10°41	S 6
M 7	12 59 53	16°52'58	20°56	20°25	5°44	4°51	10°31	9°25	22°20	5°49	6°31	29°Y59	0°44	4°17	10°44	M 7
T 8	13 3 50	17°51'59	3°Y33	21° 4	6°58	5°19	10°44	9°23	22°19	5°R49	6°29	29°57	0°41	4°23	10°48	T 8
W 9	13 7 47	18°50'58	15°58	21°47	8°12	5°48	10°57	9°21	22°18	5°49	6°27	29°56	0°38	4°30	10°51	W 9
T 10	13 11 43	19°49'56	28°11	22°33	9°26	6°16	11° 9	9°19	22°18	5°49	6°26	29°D56	0°35	4°37	10°54	T 10
F 11	13 15 40	20°48'51	10°B14	23°23	10°39	6°43	11°22	9°17	22°17	5°48	6°24	29°56	0°32	4°43	10°58	F 11
S 12	13 19 36	21°47'44	22°10	24°16	11°53	7°11	11°35	9°15	22°16	5°48	6°23	29°57	0°28	4°50	11° 2	S 12
S 13	13 23 33	22°46'36	4°II 1	25°12	13° 7	7°38	11°48	9°13	22°16	5°48	6°21	29°57	0°25	4°57	11° 5	S 13
M14	13 27 29	23°45'25	15°50	26°11	14°21	8° 6	12° 0	9°10	22°15	5°48	6°19	29°58	0°22	5° 3	11° 9	M14
T 15	13 31 26	24°44'12	27°40	27°13	15°34	8°33	12°13	9° 8	22°14	5°48	6°18	29°59	0°19	5°10	11°13	T 15
W16	13 35 22	25°42'56	9°B37	28°17	16°48	8°59	12°25	9° 5	22°13	5°47	6°16	29°59	0°16	5°17	11°16	W16
T 17	13 39 19	26°41'39	21°43	29°24	18° 1	9°26	12°37	9° 3	22°12	5°47	6°14	29°R59	0°12	5°23	11°20	T 17
F 18	13 43 16	27°40'19	4°Q 4	0°Y33	19°15	9°52	12°50	9° 0	22°11	5°47	6°13	29°59	0° 9	5°30	11°24	F 18
S 19	13 47 12	28°38'57	16°44	1°45	20°28	10°18	13° 2	8°57	22°10	5°46	6°11	29°59	0° 6	5°37	11°28	S 19
S 20	13 51 9	29°37'33	29°47	2°59	21°42	10°43	13°14	8°54	22° 9	5°46	6° 9	29°D59	0° 3	5°43	11°32	S 20
M21	13 55 5	0°B36'06	13°M15	4°15	22°55	11° 9	13°26	8°51	22° 7	5°46	6° 8	29°59	29°Y59	5°50	11°36	M21
T 22	13 59 2	1°34'37	27° 9	5°34	24° 9	11°34	13°38	8°48	22° 6	5°45	6° 6	29°59	29°57	5°57	11°40	T 22
W23	14 2 58	2°33'07	11°A28	6°54	25°22	11°58	13°50	8°45	22° 5	5°45	6° 4	29°59	29°53	6° 3	11°44	W23
T 24	14 6 55	3°31'34	26° 8	8°17	26°35	12°23	14° 1	8°42	22° 4	5°44	6° 3	29°R59	29°50	6°10	11°48	T 24
F 25	14 10 51	4°29'59	11°M 3	9°41	27°48	12°47	14°13	8°39	22° 2	5°44	6° 1	29°59	29°47	6°17	11°52	F 25
S 26	14 14 48	5°28'23	26° 4	11° 8	29° 2	13°11	14°25	8°35	22° 1	5°43	5°59	29°59	29°44	6°23	11°56	S 26
S 27	14 18 45	6°26'45	11°A 5	12°36	0°II15	13°34	14°36	8°32	21°59	5°43	5°58	29°59	29°41	6°30	12° 1	S 27
M28	14 22 41	7°25'05	25°55	14° 6	1°28	13°58	14°47	8°29	21°58	5°42	5°56	29°58	29°38	6°37	12° 5	M28
T 29	14 26 38	8°23'24	10°B29	15°39	2°41	14°21	14°59	8°25	21°56	5°41	5°54	29°57	29°34	6°43	12° 9	T 29
W30	14 30 34	9°B21'41	24°B42	17°Y13	3°II54	14°B43	15°H10	8°A22	21°A55	5°B41	5°M52	29°Y56	29°Y31	6°II50	12°II13	W30

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	4n20	28s 1	4s34	4s41	0n 3	10n19	0s37	23s34	0s 8	8s57	0s54	19s56	1n59	23s18	0s 5	22s14	1n 5	2n24	17n 3	11n31	11n51	23n36	17n20	4s44	
W 2	4 44	27 42	5 4	4 49	0s11	10 47	0 35	23 35	0 10	8 52	0 54	19 55	1 59	23 18	0 5	22 14	1 5	2 25	17 3	11 31	11 49	23 38	17 20	4 44	
T 3	5 7	25 41	5 16	4 55	0 24	11 15	0 32	23 36	0 11	8 47	0 54	19 55	1 59	23 18	0 5	22 14	1 5	2 25	17 3	11 31	11 48	23 40	17 21	4 44	
F 4	5 30	22 13	5 9	4 58	0 37	11 43	0 30	23 37	0 13	8 42	0 54	19 55	1 59	23 18	0 5	22 14	1 5	2 26	17 4	11 30	11 47	23 42	17 22	4 43	
S 5	5 53	17 40	4 46	4 59	0 49	12 11	0 28	23 38	0 14	8 38	0 54	19 54	2 0	23 18	0 5	22 14	1 5	2 27	17 4	11 29	11 46	23 44	17 22	4 43	
S 6	6 15	12 23	4 9	4 58	1 1	12 38	0 25	23 38	0 16	8 33	0 54	19 54	2 0	23 18	0 5	22 14	1 5	2 27	17 4	11 29	11 45	23 46	17 23	4 43	
M 7	6 38	6 39	3 19	4 54	1 12	13 5	0 23	23 39	0 18	8 28	0 54	19 54	2 0	23 18	0 5	22 14	1 5	2 28	17 4	11 28	11 44	23 48	17 24	4 43	
T 8	7 1	0 45	2 21	4 48	1 22	13 31	0 20	23 40	0 19	8 23	0 55	19 53	2 0	23 18	0 5	22 14	1 5	2 29	17 4	11 27	11 43	23 50	17 24	4 43	
W 9	7 23	5n 6	1 17	4 40	1 32	13 58	0 18	23 40	0 21	8 18	0 55	19 53	2 0	23 18	0 5	22 14	1 5	2 29	17 5	11 27	11 42	23 52	17 25	4 42	
T 10	7 45	10 41	0 10	4 30	1 41	14 24	0 15	23 41	0 23	8 14	0 55	19 52	2 0	23 18	0 5	22 14	1 6	2 30	17 5	11 27	11 41	23 54	17 25	4 42	
F 11	8 8	15 48	0n57	4 18	1 50	14 49	0 13	23 41	0 25	8 9	0 55	19 52	2 0	23 18	0 5	22 13	1 6	2 31	17 5	11 27	11 39	23 56	17 26	4 42	
S 12	8 30	20 15	2 0	4 5	1 58	15 15	0 10	23 42	0 27	8 4	0 55	19 52	2 0	23 18	0 5	22 13	1 6	2 31	17 5	11 27	11 38	23 58	17 27	4 42	
S 13	8 52	23 52	2 58	3 49	2 5	15 40	0 7	23 42	0 29	8 0	0 55	19 51	2 0	23 18	0 5	22 13	1 6	2 32	17 5	11 27	11 37	24 0	17 27	4 42	
M14	9 13	26 28	3 48	3 32	2 12	16 4	0 5	23 42	0 30	7 55	0 56	19 51	2 1	23 18	0 5	22 13	1 6	2 32	17 5	11 28	11 36	24 2	17 28	4 42	
T 15	9 35	27 54	4 29	3 13	2 18	16 28	0 2	23 42	0 32	7 50	0 56	19 50	2 1	23 18	0 5	22 13	1 6	2 33	17 5	11 28	11 35	24 4	17 29	4 41	
W16	9 56	28 3	4 58	2 52	2 23	16 52	0n 1	23 43	0 34	7 46	0 56	19 50	2 1	23 18	0 5	22 13	1 6	2 34	17 5	11 28	11 34	24 6	17 29	4 41	
T 17	10 18	26 52	5 14	2 30	2 28	17 15	0 3	23 43	0 36	7 41	0 56	19 49	2 1	23 18	0 5	22 13	1 6	2 34	17 5	11 28	11 33	24 8	17 30	4 41	
F 18	10 39	24 22	5 17	2 6	2 32	17 38	0 6	23 43	0 38	7 37	0 56	19 49	2 1	23 18	0 5	22 13	1 6	2 35	17 6	11 28	11 32	24 9	17 31	4 41	
S 19	11 0	20 39	5 4	1 41	2 36	18 0	0 9	23 43	0 41	7 32	0 56	19 48	2 1	23 17	0 5	22 13	1 6	2 35	17 6	11 28	11 31	24 11	17 31	4 41	
S 20	11 21	15 51	4 36	1 14	2 39	18 22	0 11	23 43	0 43	7 28	0 57	19 48	2 1	23 17	0 5	22 13	1 6	2 36	17 6	11 28	11 29	24 13	17 32	4 41	
M21	11 41	10 9	3 52	0 47	2 41	18 44	0 14	23 43	0 45	7 23	0 57	19 47	2 1	23 17	0 5	22 13	1 6	2 36	17 6	11 28	11 28	24 15	17 33	4 41	
T 22	12 1	3 46	2 53	0 17	2 43	19 5	0 17	23 43	0 47	7 19	0 57	19 47	2 1	23 17	0 5	22 13	1 6	2 37	17 6	11 28	11 27	24 17	17 33	4 40	
W23	12 22	2s59	1 41	0n13	2 45	19 25	0 19	23 43	0 49	7 14	0 57	19 46	2 1	23 17	0 5	22 13	1 6	2 38	17 6	11 28	11 26	24 19	17 34	4 40	
T 24	12 42	9 45	0 21	0 45	2 45	19 45	0 22	23 43	0 52	7 10	0 57	19 45	2 1	23 17	0 5	22 13	1 6	2 38	17 6	11 28	11 25	24 21	17 35	4 40	
F 25	13 1	16 7	1s 1	1 18	2 46	20 4	0 25	23 43	0 54	7 6	0 57	19 45	2 1	23 17	0 5	22 13	1 6	2 39	17 6	11 28	11 24	24 23	17 35	4 40	
S 26	13 21	21 32	2 20	1 52	2 45	20 23	0 27	23 43	0 56	7 1	0 58	19 44	2 1	23 17	0 5	22 13	1 6	2 39	17 6	11 28	11 23	24 25	17 36	4 40	
S 27	13 40	25 33	3 29	2 27	2 44	20 42	0 30	23 43	0 59	6 57	0 58	19 44	2 2	23 17	0 5	22 13	1 6	2 40	17 6	11 28	11 22	24 26	17 37	4 40	
M28	13 59	27 46	4 23	3 4	2 43	20 59	0 33	23 43	1 1	6 53	0 58	19 43	2 2	23 17	0 5	22 13	1 6	2 40	17 6	11 28	11 21	24 28	17 37	4 40	
T 29	14 18	28 0	4 59	3 41	2 41	21 17	0 35	23 43	1 4	6 49	0 58	19 43	2 2	23 17	0 5	22 13	1 6	2 41	17 6	11 27	11 19	24 30	17 38	4 40	
W30	14n37	26s22	5s16	4n19	2s38	21n33	0n38	23s43	1s 6	6s45	0s58	19s42	2n 2	23s17	0s 5	22s13	1n 6	2n41	17n 6	11n27	11n18	24n32	17n39	4s40	

ASTRODIENST EPHEMERIS for the year 1986
geocentric

MAY 1986

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Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	14 34 31	10♈19°57	8♌33	18♊49	5♊ 7	15♉ 5	15♈21	8°R18	21°R53	5°R40	5°R51	29°D56	29♊28	6♊57	12♊18	T 1
F 2	14 38 27	11°18'11	22° 2	20°26	6°20	15°27	15°32	8♌14	21♌52	5♌39	5♌49	29♊56	29°25	7° 3	12°22	F 2
S 3	14 42 24	12°16'24	5♈ 9	22° 6	7°33	15°49	15°43	8°11	21°50	5°38	5°47	29°57	29°22	7°10	12°26	S 3
S 4	14 46 20	13°14'35	17°58	23°48	8°46	16°10	15°54	8° 7	21°48	5°38	5°46	29°58	29°18	7°17	12°31	S 4
M 5	14 50 17	14°12'44	0♊31	25°31	9°59	16°30	16° 5	8° 3	21°46	5°37	5°44	29°59	29°15	7°23	12°35	M 5
T 6	14 54 14	15°10'52	12°50	27°16	11°12	16°51	16°15	7°59	21°45	5°36	5°42	0♈ 0	29°12	7°30	12°40	T 6
W 7	14 58 10	16° 8'59	24°59	29° 3	12°24	17°11	16°26	7°55	21°43	5°35	5°41	0°R 1	29° 9	7°37	12°44	W 7
T 8	15 2 7	17° 7'04	7♈ 0	0♈52	13°37	17°30	16°36	7°51	21°41	5°34	5°39	0° 1	29° 6	7°43	12°49	T 8
F 9	15 6 3	18° 5'08	18°55	2°43	14°50	17°49	16°47	7°47	21°39	5°33	5°37	29♊59	29° 3	7°50	12°53	F 9
S 10	15 10 0	19° 3'10	0♊46	4°36	16° 2	18° 8	16°57	7°43	21°37	5°32	5°36	29°58	28°59	7°57	12°58	S 10
S 11	15 13 56	20° 1'10	12°36	6°30	17°15	18°26	17° 7	7°39	21°35	5°31	5°34	29°55	28°56	8° 3	13° 3	S 11
M12	15 17 53	20°59'09	24°25	8°27	18°28	18°43	17°17	7°35	21°33	5°30	5°33	29°52	28°53	8°10	13° 7	M12
T 13	15 21 49	21°57'06	6♈18	10°25	19°40	19° 0	17°27	7°31	21°31	5°29	5°31	29°48	28°50	8°17	13°12	T 13
W14	15 25 46	22°55'01	18°16	12°25	20°53	19°17	17°37	7°26	21°29	5°28	5°29	29°45	28°47	8°23	13°17	W14
T 15	15 29 43	23°52'54	0♊23	14°27	22° 5	19°33	17°46	7°22	21°27	5°27	5°28	29°42	28°44	8°30	13°21	T 15
F 16	15 33 39	24°50'46	12°43	16°30	23°17	19°49	17°56	7°18	21°25	5°26	5°26	29°40	28°40	8°37	13°26	F 16
S 17	15 37 36	25°48'36	25°19	18°35	24°30	20° 4	18° 5	7°13	21°23	5°25	5°25	29°D40	28°37	8°44	13°31	S 17
S 18	15 41 32	26°46'24	8♊16	20°42	25°42	20°19	18°14	7° 9	21°21	5°24	5°23	29°40	28°34	8°50	13°36	S 18
M19	15 45 29	27°44'11	21°37	22°49	26°54	20°33	18°24	7° 5	21°19	5°22	5°21	29°42	28°31	8°57	13°41	M19
T 20	15 49 25	28°41'56	5♊24	24°58	28° 7	20°47	18°33	7° 0	21°16	5°21	5°20	29°43	28°28	9° 4	13°45	T 20
W21	15 53 22	29°39'39	19°38	27° 9	29°19	21° 0	18°42	6°56	21°14	5°20	5°18	29°44	28°24	9°10	13°50	W21
T 22	15 57 18	0♊37'21	4♊17	29°19	0♈31	21°12	18°50	6°52	21°12	5°19	5°17	29°R44	28°21	9°17	13°55	T 22
F 23	16 1 15	1°35'01	19°17	1♊31	1°43	21°24	18°59	6°47	21°10	5°17	5°15	29°43	28°18	9°24	14° 0	F 23
S 24	16 5 12	2°32'40	4♊29	3°42	2°55	21°35	19° 7	6°43	21° 7	5°16	5°14	29°41	28°15	9°30	14° 5	S 24
S 25	16 9 8	3°30'18	19°44	5°54	4° 7	21°46	19°16	6°38	21° 5	5°15	5°13	29°37	28°12	9°37	14°10	S 25
M26	16 13 5	4°27'54	4♈52	8° 6	5°19	21°56	19°24	6°34	21° 3	5°14	5°11	29°32	28° 9	9°44	14°14	M26
T 27	16 17 1	5°25'30	19°43	10°17	6°30	22° 6	19°32	6°29	21° 1	5°12	5°10	29°27	28° 5	9°50	14°19	T 27
W28	16 20 58	6°23'05	4♌11	12°27	7°42	22°14	19°40	6°25	20°58	5°11	5° 8	29°23	28° 2	9°57	14°24	W28
T 29	16 24 54	7°20'38	18°11	14°36	8°54	22°23	19°48	6°20	20°56	5°10	5° 7	29°19	27°59	10° 4	14°29	T 29
F 30	16 28 51	8°18'11	1♈43	16°44	10° 6	22°30	19°56	6°16	20°53	5° 8	5° 6	29°18	27°56	10°10	14°34	F 30
S 31	16 32 47	9♊15'43	14♈49	18♊50	11♈17	22♈37	20♈ 3	6♌11	20♌51	5♌ 7	5♌ 4	29°D18	27♊53	10♊17	14♊39	S 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	decl	decl	lat
T 1	14n55	23s10	5s13	4n59	2s35	21n49	0n41	23s44	1s 9	6s40	0s59	19s41	2n 2	23s17	0s 5	22s13	1n 6	2n41	17n 6	11n27	11n17	24n34	17n39	4s39		
F 2	15 13	18 48	4 54	5 39	2 32	22 5	0 43	23 44	1 11	6 36	0 59	19 41	2 2	23 17	0 5	22 13	1 6	2 42	17 5	11 27	11 16	24 36	17 40	4 39		
S 3	15 31	13 38	4 19	6 20	2 27	22 20	0 46	23 44	1 14	6 32	0 59	19 40	2 2	23 16	0 5	22 13	1 6	2 42	17 5	11 27	11 15	24 37	17 40	4 39		
S 4	15 49	8 1	3 32	7 1	2 23	22 34	0 49	23 44	1 17	6 28	0 59	19 39	2 2	23 16	0 5	22 13	1 6	2 43	17 5	11 28	11 14	24 39	17 41	4 39		
M 5	16 6	2 11	2 36	7 44	2 18	22 48	0 51	23 44	1 19	6 24	0 59	19 39	2 2	23 16	0 5	22 13	1 6	2 43	17 5	11 28	11 13	24 41	17 42	4 39		
T 6	16 24	3n38	1 34	8 27	2 12	23 1	0 54	23 44	1 22	6 20	1 0	19 38	2 2	23 16	0 5	22 13	1 6	2 44	17 5	11 29	11 12	24 43	17 42	4 39		
W 7	16 40	9 15	0 28	9 11	2 6	23 13	0 56	23 45	1 25	6 16	1 0	19 38	2 2	23 16	0 5	22 13	1 6	2 44	17 5	11 29	11 10	24 45	17 43	4 39		
T 8	16 57	14 28	0n39	9 55	1 59	23 25	0 59	23 45	1 28	6 13	1 0	19 37	2 2	23 16	0 5	22 13	1 6	2 44	17 5	11 29	11 9	24 47	17 44	4 39		
F 9	17 13	19 6	1 43	10 40	1 52	23 36	1 1	23 45	1 31	6 9	1 0	19 36	2 2	23 16	0 5	22 13	1 6	2 45	17 5	11 28	11 8	24 48	17 44	4 39		
S 10	17 29	22 57	2 42	11 25	1 44	23 46	1 4	23 46	1 34	6 5	1 0	19 36	2 2	23 16	0 5	22 13	1 6	2 45	17 5	11 28	11 7	24 50	17 45	4 39		
S 11	17 45	25 50	3 34	12 10	1 36	23 56	1 6	23 46	1 37	6 1	1 1	19 35	2 2	23 16	0 5	22 14	1 6	2 45	17 4	11 27	11 6	24 52	17 45	4 39		
M12	18 0	27 36	4 16	12 56	1 28	24 5	1 8	23 47	1 40	5 58	1 1	19 34	2 2	23 16	0 5	22 14	1 6	2 46	17 4	11 26	11 5	24 54	17 46	4 39		
T 13	18 15	28 6	4 48	13 42	1 19	24 13	1 11	23 48	1 43	5 54	1 1	19 34	2 2	23 15	0 5	22 14	1 6	2 46	17 4	11 24	11 4	24 55	17 47	4 39		
W14	18 30	27 17	5 8	14 27	1 10	24 21	1 13	23 48	1 46	5 50	1 1	19 33	2 2	23 15	0 5	22 14	1 6	2 46	17 4	11 23	11 3	24 57	17 47	4 39		
T 15	18 45	25 11	5 14	15 13	1 0	24 28	1 15	23 49	1 49	5 47	1 2	19 32	2 2	23 15	0 5	22 14	1 6	2 47	17 4	11 22	11 1	24 59	17 48	4 39		
F 16	18 59	21 53	5 6	15 58	0 50	24 34	1 18	23 50	1 53	5 43	1 2	19 31	2 2	23 15	0 5	22 14	1 6	2 47	17 3	11 22	11 0	25 1	17 48	4 39		
S 17	19 13	17 32	4 43	16 43	0 40	24 39	1 20	23 51	1 56	5 40	1 2	19 31	2 2	23 15	0 5	22 14	1 6	2 47	17 3	11 21	10 59	25 2	17 49	4 39		
S 18	19 26	12 16	4 6	17 27	0 30	24 44	1 22	23 52	1 59	5 36	1 2	19 30	2 2	23 15	0 5	22 14	1 6	2 48	17 3	11 21	10 58	25 4	17 50	4 39		
M19	19 40	6 18	3 14	18 10	0 20	24 48	1 24	23 54	2 3	5 33	1 2	19 29	2 2	23 15	0 5	22 14	1 6	2 48	17 3	11 22	10 57	25 6	17 50	4 39		
T 20	19 52	0s10	2 10	18 52	0 9	24 52	1 26	23 55	2 6	5 30	1 3	19 29	2 2	23 15	0 5	22 14	1 6	2 48	17 2	11 22	10 56	25 8	17 51	4 39		
W21	20 5	6 50	0 55	19 33	0n 1	24 55	1 28	23 56	2 10	5 26	1 3	19 28	2 2	23 14	0 5	22 14	1 6	2 48	17 2	11 23	10 55	25 9	17 51	4 39		
T 22	20 17	13 21	0s25	20 12	0 12	24 57	1 30	23 58	2 13	5 23	1 3	19 27	2 2	23 14	0 5	22 14	1 6	2 48	17 2	11 23	10 53	25 11	17 52	4 39		
F 23	20 29	19 14	1 45	20 50	0 22	24 58	1 32	24 0	2 17	5 20	1 3	19 27	2 2	23 14	0 5	22 14	1 6	2 49	17 2	11 23	10 52	25 13	17 52	4 39		
S 24	20 40	23 58	2 58	21 26	0 33	24 58	1 34	24 2	2 21	5 17	1 4	19 26	2 2	23 14	0 5	22 14	1 6	2 49	17 1	11 22	10 51	25 14	17 53	4 39		
S 25	20 51	27 2	3 59	22 0	0 43	24 58	1 36	24 4	2 24	5 14	1 4	19 25	2 2	23 14	0 5	22 14	1 6	2 49	17 1	11 20	10 50	25 16	17 53	4 39		
M26	21 2	28 4	4 43	22 31	0 52	24 57	1 37	24 6	2 28	5 11	1 4	19 24	2 2	23 14	0 5	22 14	1 6	2 49	17 1	11 18	10 49	25 18	17 54	4 39		
T 27	21 13	27 3	5 7	23 1	1 2	24 56	1 39	24 8	2 32	5 8	1 4	19 24	2 2	23 14	0 5	22 14	1 6	2 49	17 0	11 17	10 48	25 19	17 55	4 39		
W28	21 23	24 14	5 10	23 27	1 10	24 53	1 41	24 10	2 36	5 5	1 5	19 23	2 2	23 13	0 5	22 14	1 6	2 49	17 0	11 15	10 47	25 21	17 55	4 39		
T 29	21 32	20 3	4 55	23 52	1 19	24 50	1 42	24 13	2 40	5 2	1 5	19 22	2 2	23 13	0 5	22 14	1 6	2 50	17 0	11 14	10 46	25 23	17 56	4 39		
F 30	21 42	14 57	4 23	24 13	1 27	24 47	1 44	24 15	2 44	4 59	1 5	19 22	2 2	23 13	0 5	22 14	1 7	2 50	16 59	11 14	10 44	25 24	17 56	4 39		
S 31	21n51	9s20	3s38	24n32	1n34	24n42	1n45	24s18	2s48	4s56	1s 5	19s21	2n 2	23s13	0s 5	22s14	1n 7	2n50	16m59	11n14	10n43	25n26	17n57	4s39		

ASTRODIENST EPHEMERIS for the year 1986

geocentric

JUNE 1986

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 36 44	10 ^{II} 13'14	27 [♂] 33	20 ^{II} 55	12 [♂] 29	22 [♂] 43	20 [♂] 11	6°R 7	20°R49	5°R 5	5°R 3	29°Y19	27°Y50	10 ^{II} 24	14 ^{II} 44	S 1
M 2	16 40 41	11°10'44	9°Y57	22°57	13°40	22°49	20°18	6°R 3	20°R46	5°R 4	5°R 2	29°20	27°46	10°30	14°49	M 2
T 3	16 44 37	12° 8'14	22° 7	24°58	14°52	22°53	20°25	5°58	20°44	5° 2	5° 0	29°21	27°43	10°37	14°54	T 3
W 4	16 48 34	13° 5'42	4 [♂] 6	26°57	16° 3	22°58	20°32	5°54	20°41	5° 1	4°59	29°R22	27°40	10°44	14°59	W 4
T 5	16 52 30	14° 3'10	15°59	28°53	17°14	23° 1	20°39	5°49	20°39	4°59	4°58	29°20	27°37	10°50	15° 4	T 5
F 6	16 56 27	15° 0'37	27°49	0 [♂] 47	18°26	23° 3	20°46	5°45	20°37	4°58	4°57	29°16	27°34	10°57	15° 9	F 6
S 7	17 0 23	15°58'04	9 ^{II} 38	2°38	19°37	23° 5	20°52	5°41	20°34	4°57	4°56	29°11	27°30	11° 4	15°14	S 7
S 8	17 4 20	16°55'29	21°27	4°27	20°48	23° 6	20°58	5°36	20°32	4°55	4°54	29° 3	27°27	11°11	15°19	S 8
M 9	17 8 16	17°52'54	3 [♂] 20	6°13	21°59	23°R 7	21° 5	5°32	20°29	4°53	4°53	28°54	27°24	11°17	15°24	M 9
T 10	17 12 13	18°50'18	15°18	7°57	23°10	23° 6	21°11	5°28	20°27	4°52	4°52	28°45	27°21	11°24	15°29	T 10
W11	17 16 10	19°47'41	27°22	9°38	24°21	23° 5	21°17	5°23	20°24	4°50	4°51	28°36	27°18	11°31	15°34	W11
T 12	17 20 6	20°45'03	9 [♂] 23	11°17	25°32	23° 3	21°22	5°19	20°22	4°49	4°50	28°28	27°15	11°37	15°38	T 12
F 13	17 24 3	21°42'24	21°59	12°53	26°43	23° 1	21°28	5°15	20°19	4°47	4°49	28°22	27°11	11°44	15°43	F 13
S 14	17 27 59	22°39'44	4 [♂] 37	14°26	27°54	22°57	21°33	5°11	20°17	4°46	4°48	28°19	27° 8	11°51	15°48	S 14
S 15	17 31 56	23°37'03	17°31	15°57	29° 4	22°53	21°38	5° 7	20°14	4°44	4°47	28°17	27° 5	11°57	15°53	S 15
M16	17 35 52	24°34'21	0 [♂] 46	17°25	0 [♂] 15	22°48	21°43	5° 3	20°12	4°43	4°46	28°D17	27° 2	12° 4	15°58	M16
T 17	17 39 49	25°31'38	14°24	18°50	1°26	22°43	21°48	4°59	20°10	4°41	4°45	28°18	26°59	12°11	16° 3	T 17
W18	17 43 45	26°28'54	28°27	20°12	2°36	22°36	21°53	4°55	20° 7	4°39	4°44	28°R18	26°56	12°17	16° 8	W18
T 19	17 47 42	27°26'10	12 [♂] 55	21°32	3°47	22°29	21°58	4°51	20° 5	4°38	4°44	28°17	26°52	12°24	16°13	T 19
F 20	17 51 39	28°23'25	27°45	22°49	4°57	22°21	22° 2	4°47	20° 2	4°36	4°43	28°14	26°49	12°31	16°18	F 20
S 21	17 55 35	29°20'39	12 [♂] 52	24° 3	6° 7	22°13	22° 6	4°43	20° 0	4°35	4°42	28° 9	26°46	12°37	16°23	S 21
S 22	17 59 32	0 [♂] 17'53	28° 6	25°14	7°17	22° 4	22°10	4°39	19°57	4°33	4°41	28° 2	26°43	12°44	16°28	S 22
M23	18 3 28	1°15'07	13 [♂] 17	26°22	8°27	21°54	22°14	4°35	19°55	4°31	4°40	27°53	26°40	12°51	16°33	M23
T 24	18 7 25	2°12'20	28°15	27°27	9°37	21°43	22°18	4°32	19°53	4°30	4°40	27°43	26°36	12°57	16°37	T 24
W25	18 11 21	3° 9'32	12 [♂] 51	28°28	10°47	21°32	22°21	4°28	19°50	4°28	4°39	27°35	26°33	13° 4	16°42	W25
T 26	18 15 18	4° 6'45	27° 0	29°27	11°57	21°20	22°24	4°24	19°48	4°26	4°38	27°28	26°30	13°11	16°47	T 26
F 27	18 19 15	5° 3'58	10 [♂] 39	0 [♂] 22	13° 7	21° 8	22°27	4°21	19°46	4°25	4°38	27°24	26°27	13°18	16°52	F 27
S 28	18 23 11	6° 1'10	23°48	1°14	14°16	20°55	22°30	4°17	19°43	4°23	4°37	27°21	26°24	13°24	16°57	S 28
S 29	18 27 8	6°58'23	6°Y33	2° 2	15°26	20°41	22°33	4°14	19°41	4°22	4°37	27°D20	26°21	13°31	17° 1	S 29
M30	18 31 4	7°55'35	18°Y56	2 [♂] 47	16°236	20°27	22°36	4°11	19°439	4°20	4°36	27°Y21	26°Y17	13°II38	17°II 6	M30

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	21n59	3s29	2s44	24n48	1n40	24n37	1n46	24s21	2s52	4s54	1s 6	19s20	2n 1	23s13	0s 5	22s14	1n 7	2n50	16n59	11n14	10n42	25n28	17n57	4s39			
M 2	22 7	2n21	1 44	25 1	1 46	24 31	1 48	24 24	2 56	4 51	1 6	19 20	2 1	23 13	0 5	22 14	1 7	2 50	16 58	11 14	10 41	25 29	17 58	4 39			
T 3	22 15	8 0	0 39	25 12	1 51	24 25	1 49	24 28	3 0	4 49	1 6	19 19	2 1	23 13	0 5	22 14	1 7	2 50	16 58	11 15	10 40	25 31	17 58	4 39			
W 4	22 22	13 18	0n26	25 20	1 55	24 18	1 50	24 31	3 4	4 46	1 6	19 18	2 1	23 12	0 5	22 14	1 7	2 50	16 57	11 15	10 39	25 32	17 59	4 39			
T 5	22 29	18 3	1 29	25 25	1 59	24 10	1 51	24 35	3 9	4 44	1 7	19 18	2 1	23 12	0 5	22 14	1 7	2 50	16 57	11 14	10 38	25 34	17 59	4 39			
F 6	22 36	22 4	2 28	25 28	2 2	24 1	1 52	24 38	3 13	4 41	1 7	19 17	2 1	23 12	0 5	22 14	1 7	2 50	16 57	11 13	10 36	25 36	17 59	4 39			
S 7	22 42	25 11	3 20	25 29	2 4	23 52	1 53	24 42	3 17	4 39	1 7	19 16	2 1	23 12	0 5	22 15	1 7	2 50	16 56	11 11	10 35	25 37	18 0	4 39			
S 8	22 48	27 13	4 4	25 27	2 5	23 42	1 54	24 46	3 21	4 37	1 8	19 16	2 1	23 12	0 5	22 15	1 7	2 50	16 56	11 8	10 34	25 39	18 0	4 39			
M 9	22 53	28 1	4 37	25 23	2 5	23 32	1 54	24 51	3 26	4 35	1 8	19 15	2 1	23 12	0 5	22 15	1 7	2 50	16 55	11 5	10 33	25 40	18 1	4 39			
T 10	22 58	27 30	4 58	25 17	2 5	23 21	1 55	24 55	3 30	4 32	1 8	19 14	2 1	23 11	0 5	22 15	1 7	2 50	16 55	11 2	10 32	25 42	18 1	4 40			
W11	23 3	25 41	5 6	25 9	2 4	23 9	1 56	25 0	3 35	4 30	1 8	19 14	2 0	23 11	0 5	22 15	1 7	2 50	16 55	10 59	10 31	25 44	18 2	4 40			
T 12	23 7	22 41	5 1	25 0	2 2	22 56	1 56	25 4	3 39	4 28	1 9	19 13	2 0	23 11	0 5	22 15	1 7	2 50	16 54	10 56	10 30	25 45	18 2	4 40			
F 13	23 11	18 36	4 41	24 48	2 0	22 43	1 57	25 9	3 43	4 26	1 9	19 12	2 0	23 11	0 5	22 15	1 7	2 49	16 54	10 54	10 28	25 47	18 2	4 40			
S 14	23 14	13 39	4 7	24 35	1 56	22 30	1 57	25 14	3 48	4 25	1 9	19 12	2 0	23 11	0 5	22 15	1 7	2 49	16 53	10 53	10 27	25 48	18 3	4 40			
S 15	23 17	8 1	3 21	24 21	1 52	22 15	1 57	25 19	3 52	4 23	1 9	19 11	2 0	23 11	0 5	22 15	1 7	2 49	16 53	10 52	10 26	25 50	18 3	4 40			
M16	23 20	1 52	2 22	24 5	1 48	22 1	1 57	25 24	3 57	4 21	1 10	19 11	2 0	23 10	0 5	22 15	1 7	2 49	16 52	10 52	10 25	25 51	18 4	4 40			
T 17	23 22	4s33	1 14	23 49	1 42	21 45	1 57	25 30	4 1	4 19	1 10	19 10	2 0	23 10	0 6	22 15	1 7	2 49	16 52	10 52	10 24	25 53	18 4	4 40			
W18	23 24	10 56	0s 1	23 31	1 36	21 29	1 57	25 35	4 6	4 18	1 10	19 9	2 0	23 10	0 6	22 15	1 7	2 49	16 51	10 52	10 23	25 54	18 4	4 40			
T 19	23 25	16 57	1 17	23 12	1 30	21 13	1 57	25 41	4 10	4 16	1 11	19 9	1 59	23 10	0 6	22 15	1 7	2 49	16 51	10 52	10 22	25 56	18 5	4 41			
F 20	23 26	22 6	2 31	22 52	1 22	20 56	1 57	25 46	4 15	4 15	1 11	19 8	1 59	23 10	0 6	22 15	1 7	2 48	16 50	10 51	10 20	25 57	18 5	4 41			
S 21	23 26	25 53	3 34	22 31	1 14	20 38	1 57	25 52	4 19	4 13	1 11	19 8	1 59	23 9	0 6	22 15	1 7	2 48	16 50	10 49	10 19	25 59	18 5	4 41			
S 22	23 27	27 49	4 24	22 10	1 6	20 20	1 56	25 58	4 23	4 12	1 11	19 7	1 59	23 9	0 6	22 15	1 7	2 48	16 49	10 46	10 18	26 0	18 6	4 41			
M23	23 26	27 39	4 54	21 49	0 57	20 1	1 56	26 4	4 28	4 11	1 12	19 7	1 59	23 9	0 6	22 15	1 7	2 48	16 49	10 43	10 17	26 2	18 6	4 41			
T 24	23 25	25 28	5 3	21 26	0 47	19 42	1 55	26 10	4 32	4 10	1 12	19 6	1 59	23 9	0 6	22 16	1 7	2 47	16 48	10 40	10 16	26 3	18 6	4 41			
W25	23 24	21 38	4 53	21 4	0 36	19 22	1 55	26 16	4 36	4 9	1 12	19 6	1 59	23 9	0 6	22 16	1 7	2 47	16 48	10 37	10 15	26 5	18 7	4 42			
T 26	23 23	16 39	4 25	20 41	0 25	19 2	1 54	26 22	4 40	4 8	1 13	19 5	1 58	23 9	0 6	22 16	1 7	2 47	16 47	10 34	10 14	26 6	18 7	4 42			
F 27	23 21	11 0	3 42	20 18	0 14	18 41	1 53	26 28	4 45	4 7	1 13	19 5	1 58	23 8	0 6	22 16	1 7	2 46	16 47	10 33	10 12	26 8	18 7	4 42			
S 28	23 18	5 2	2 48	19 55	0 2	18 20	1 52	26 34	4 49	4 6	1 13	19 4	1 58	23 8	0 6	22 16	1 6	2 46	16 46	10 32	10 11	26 9	18 7	4 42			
S 29	23 16	0n56	1 48	19 32	0s10	17 59	1 51	26 40	4 53	4 5	1 14	19 4	1 58	23 8	0 6	22 16	1 6	2 46	16 46	10 32	10 10	26 10	18 8	4 42			
M30	23n12	6n44	0s45	19n10	0s23	17n37	1n50	26s46	4s57	4s 4	1s14	19s 3	1n58	23s 8	0s 6	22s16	1n 6	2n46	16n45	10n32	10n 9	26n12	18n 8	4s42			

ASTRODIENST EPHEMERIS for the year 1986

geocentric

JULY 1986

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 35 1	8♂52'48	1♂ 3	3♂27	17♂45	20°R13	22♂38	4°R 7	19°R36	4°R18	4°R36	27°R21	26°Y14	13♂44	17♂11	T 1
W 2	18 38 57	9°50'01	12°59	4° 4	18°54	19♂58	22°40	4♂ 4	19♂34	4♂17	4♂35	27°Y20	26°11	13°51	17°16	W 2
T 3	18 42 54	10°47'14	24°49	4°37	20° 3	19°42	22°42	4° 1	19°32	4°15	4°35	27°17	26° 8	13°58	17°20	T 3
F 4	18 46 50	11°44'27	6♂37	5° 6	21°12	19°26	22°44	3°58	19°30	4°14	4°34	27°11	26° 5	14° 4	17°25	F 4
S 5	18 50 47	12°41'40	18°27	5°30	22°22	19°10	22°46	3°55	19°27	4°12	4°34	27° 3	26° 2	14°11	17°30	S 5
S 6	18 54 44	13°38'54	0♂20	5°51	23°30	18°53	22°47	3°52	19°25	4°10	4°34	26°52	25°58	14°18	17°34	S 6
M 7	18 58 40	14°36'08	12°20	6° 6	24°39	18°37	22°48	3°49	19°23	4° 9	4°33	26°39	25°55	14°24	17°39	M 7
T 8	19 2 37	15°33'21	24°26	6°17	25°48	18°19	22°49	3°46	19°21	4° 7	4°33	26°26	25°52	14°31	17°44	T 8
W 9	19 6 33	16°30'35	6♂42	6°24	26°57	18° 2	22°50	3°44	19°19	4° 6	4°33	26°13	25°49	14°38	17°48	W 9
T 10	19 10 30	17°27'49	19° 6	6°R25	28° 5	17°45	22°51	3°41	19°17	4° 4	4°33	26° 1	25°46	14°44	17°53	T 10
F 11	19 14 26	18°25'02	1♂40	6°22	29°13	17°27	22°51	3°39	19°15	4° 2	4°33	25°52	25°42	14°51	17°57	F 11
S 12	19 18 23	19°22'16	14°27	6°14	0♂22	17°10	22°51	3°36	19°13	4° 1	4°32	25°46	25°39	14°58	18° 2	S 12
S 13	19 22 19	20°19'29	27°27	6° 2	1°30	16°52	22°R51	3°34	19°11	3°59	4°32	25°42	25°36	15° 5	18° 6	S 13
M14	19 26 16	21°16'43	10♂42	5°45	2°38	16°35	22°51	3°32	19° 9	3°58	4°32	25°41	25°33	15°11	18°10	M14
T 15	19 30 13	22°13'57	24°16	5°24	3°46	16°17	22°51	3°29	19° 7	3°56	4°D32	25°41	25°30	15°18	18°15	T 15
W16	19 34 9	23°11'10	8♂10	4°58	4°53	16° 0	22°50	3°27	19° 5	3°55	4°32	25°41	25°27	15°25	18°19	W16
T 17	19 38 6	24° 8'24	22°24	4°29	6° 1	15°43	22°50	3°25	19° 3	3°53	4°32	25°39	25°23	15°31	18°24	T 17
F 18	19 42 2	25° 5'38	6♂58	3°56	7° 9	15°27	22°49	3°23	19° 1	3°52	4°32	25°36	25°20	15°38	18°28	F 18
S 19	19 45 59	26° 2'52	21°48	3°20	8°16	15°10	22°48	3°21	18°59	3°50	4°32	25°29	25°17	15°45	18°32	S 19
S 20	19 49 55	27° 0'07	6♂46	2°41	9°23	14°54	22°46	3°20	18°58	3°49	4°33	25°20	25°14	15°51	18°36	S 20
M21	19 53 52	27°57'21	21°45	2° 1	10°30	14°38	22°45	3°18	18°56	3°47	4°33	25°10	25°11	15°58	18°40	M21
T 22	19 57 49	28°54'37	6♂35	1°20	11°37	14°23	22°43	3°16	18°54	3°46	4°33	24°59	25° 8	16° 5	18°45	T 22
W23	20 1 45	29°51'52	21° 8	0°38	12°44	14° 8	22°41	3°15	18°52	3°45	4°33	24°48	25° 4	16°11	18°49	W23
T 24	20 5 42	0♂49'09	5♂16	29♂56	13°50	13°53	22°39	3°14	18°51	3°43	4°34	24°40	25° 1	16°18	18°53	T 24
F 25	20 9 38	1°46'26	18°56	29°16	14°57	13°39	22°37	3°12	18°49	3°42	4°34	24°34	24°58	16°25	18°57	F 25
S 26	20 13 35	2°43'44	2°Y 9	28°37	16° 3	13°26	22°34	3°11	18°48	3°40	4°34	24°30	24°55	16°32	19° 1	S 26
S 27	20 17 31	3°41'03	14°56	28° 0	17° 9	13°13	22°32	3°10	18°46	3°39	4°35	24°29	24°52	16°38	19° 5	S 27
M28	20 21 28	4°38'22	27°21	27°27	18°15	13° 1	22°29	3° 9	18°45	3°38	4°35	24°D28	24°48	16°45	19° 9	M28
T 29	20 25 24	5°35'43	9♂30	26°57	19°21	12°49	22°26	3° 8	18°43	3°36	4°35	24°R28	24°45	16°52	19°13	T 29
W30	20 29 21	6°33'05	21°27	26°32	20°27	12°38	22°23	3° 7	18°42	3°35	4°36	24°28	24°42	16°58	19°16	W30
T 31	20 33 17	7♂30'28	3♂18	26♂11	21♂32	12♂28	22♂19	3♂ 6	18♂41	3♂34	4♂36	24°Y25	24°Y39	17♂ 5	19♂20	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	23n 9	12n 9	0n20	18n47	0s37	17n14	1n49	26s52	5s 0	4s 4	1s14	19s 3	1n58	23s 8	0s 6	22s16
W 2	23 5	17 3	1 22	18 25	0 51	16 52	1 47	26 58	5 4	4 3	1 14	19 3	1 57	23 8	0 6	22 16
T 3	23 0	21 15	2 20	18 4	1 5	16 28	1 46	27 4	5 8	4 2	1 15	19 2	1 57	23 7	0 6	22 16
F 4	22 55	24 34	3 12	17 43	1 19	16 5	1 44	27 10	5 11	4 2	1 15	19 2	1 57	23 7	0 6	22 16
S 5	22 50	26 51	3 56	17 23	1 34	15 41	1 43	27 16	5 15	4 2	1 15	19 1	1 57	23 7	0 6	22 16
S 6	22 45	27 56	4 29	17 3	1 49	15 16	1 41	27 21	5 18	4 1	1 16	19 1	1 57	23 7	0 6	22 16
M 7	22 39	27 42	4 51	16 45	2 4	14 52	1 39	27 27	5 21	4 1	1 16	19 1	1 56	23 7	0 6	22 16
T 8	22 32	26 9	5 0	16 28	2 19	14 27	1 37	27 32	5 24	4 1	1 16	19 0	1 56	23 7	0 6	22 16
W 9	22 25	23 22	4 55	16 11	2 34	14 1	1 35	27 38	5 27	4 1	1 17	19 0	1 56	23 6	0 6	22 16
T 10	22 18	19 29	4 37	15 57	2 49	13 36	1 33	27 43	5 30	4 1	1 17	19 0	1 56	23 6	0 6	22 17
F 11	22 11	14 41	4 4	15 43	3 4	13 10	1 31	27 48	5 33	4 1	1 17	19 0	1 56	23 6	0 6	22 17
S 12	22 3	9 11	3 19	15 31	3 18	12 43	1 28	27 53	5 35	4 1	1 17	18 59	1 55	23 6	0 6	22 17
S 13	21 54	3 12	2 23	15 20	3 32	12 17	1 26	27 57	5 37	4 2	1 18	18 59	1 55	23 6	0 6	22 17
M14	21 46	3s 2	1 18	15 11	3 46	11 50	1 23	28 2	5 40	4 2	1 18	18 59	1 55	23 6	0 6	22 17
T 15	21 37	9 18	0 7	15 4	3 58	11 23	1 21	28 6	5 42	4 2	1 18	18 59	1 55	23 6	0 6	22 17
W16	21 27	15 16	1s 5	14 59	4 10	10 56	1 18	28 10	5 43	4 3	1 19	18 58	1 54	23 5	0 6	22 17
T 17	21 17	20 34	2 16	14 55	4 21	10 28	1 15	28 14	5 45	4 3	1 19	18 58	1 54	23 5	0 6	22 17
F 18	21 7	24 45	3 19	14 53	4 31	10 0	1 12	28 17	5 47	4 4	1 19	18 58	1 54	23 5	0 6	22 17
S 19	20 57	27 21	4 10	14 53	4 39	9 32	1 9	28 21	5 48	4 5	1 20	18 58	1 54	23 5	0 6	22 17
S 20	20 46	28 1	4 45	14 55	4 46	9 4	1 6	28 24	5 49	4 6	1 20	18 58	1 54	23 5	0 6	22 17
M21	20 34	26 37	5 0	14 58	4 52	8 36	1 2	28 27	5 50	4 6	1 20	18 58	1 53	23 5	0 6	22 17
T 22	20 23	23 22	4 54	15 3	4 56	8 7	0 59	28 29	5 51	4 7	1 20	18 58	1 53	23 5	0 6	22 17
W23	20 11	18 43	4 30	15 10	4 58	7 38	0 56	28 32	5 52	4 8	1 21	18 58	1 53	23 4	0 6	22 17
T 24	19 59	13 8	3 49	15 18	4 58	7 9	0 52	28 34	5 53	4 9	1 21	18 58	1 53	23 4	0 6	22 17
F 25	19 46	7 5	2 56	15 28	4 57	6 40	0 48	28 36	5 53	4 11	1 21	18 58	1 53	23 4	0 6	22 18
S 26	19 33	0 54	1 55	15 39	4 54	6 11	0 45	28 37	5 53	4 12	1 22	18 58	1 52	23 4	0 6	22 18
S 27	19 20	5n 7	0 50	15 51	4 49	5 42	0 41	28 39	5 54	4 13	1 22	18 58	1 52	23 4	0 6	22 18
M28	19 6	10 46	0n15	16 3	4 43	5 13	0 37	28 40	5 53	4 15	1 22	18 58	1 52	23 4	0 6	22 18
T 29	18 53	15 54	1 19	16 17	4 35	4 43	0 33	28 41	5 53	4 16	1 23	18 58	1 52	23 4	0 6	22 18
W30	18 38	20 21	2 18	16 31	4 25	4 14	0 29	28 42	5 53	4 18	1 23	18 58	1 51	23 4	0 6	22 18
T 31	18n24	23n56	3n10	16n45	4s14	3n44	0n24	28s42	5s53	4s19	1s23	18s58	1n51	23s 3	0s 6	22s18

Julian Day Number = 2446612.5, Delta T = 55.10 sec

Ecliptic obliquity = 23°26'35", Nutation = - 0°00'07", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°33'06", Lahiri = 23°40'06"

ASTRODIENST EPHEMERIS for the year 1986
geocentric

AUGUST 1986

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	20 37 14	8♂27°52	15♂ 7	25°R56	22♂37	12°R18	22°R16	3°R 6	18°R39	3°R33	4♂37	24°R20	24°Y36	17♂12	19♂24	F 1
S 2	20 41 11	9°25'17	26°59	25♂47	23°42	12♂10	22♂12	3♂ 5	18♂38	3♂31	4♂38	24°Y12	24°33	17°18	19°28	S 2
S 3	20 45 7	10°22'44	8♂58	25°D44	24°47	12° 1	22° 8	3° 5	18°37	3°30	4°38	24° 2	24°29	17°25	19°31	S 3
M 4	20 49 4	11°20'11	21° 5	25°47	25°52	11°54	22° 4	3° 4	18°36	3°29	4°39	23°50	24°26	17°32	19°35	M 4
T 5	20 53 0	12°17'39	3♂23	25°56	26°56	11°48	21°59	3° 4	18°34	3°28	4°40	23°38	24°23	17°39	19°39	T 5
W 6	20 56 57	13°15'08	15°52	26°12	28° 1	11°42	21°55	3° 4	18°33	3°27	4°40	23°26	24°20	17°45	19°42	W 6
T 7	21 0 53	14°12'39	28°32	26°35	29° 5	11°37	21°50	3°D 4	18°32	3°25	4°41	23°15	24°17	17°52	19°45	T 7
F 8	21 4 50	15°10'10	11♂24	27° 4	0♂ 9	11°33	21°45	3° 4	18°31	3°24	4°42	23° 7	24°14	17°59	19°49	F 8
S 9	21 8 47	16° 7'42	24°28	27°40	1°12	11°30	21°41	3° 4	18°30	3°23	4°43	23° 1	24°10	18° 5	19°52	S 9
S 10	21 12 43	17° 5'15	7♂42	28°22	2°16	11°27	21°35	3° 4	18°29	3°22	4°43	22°58	24° 7	18°12	19°56	S 10
M 11	21 16 40	18° 2'48	21° 9	29°11	3°19	11°26	21°30	3° 4	18°29	3°21	4°44	22°D57	24° 4	18°19	19°59	M 11
T 12	21 20 36	19° 0'23	4♂48	0♂ 7	4°22	11°D25	21°25	3° 5	18°28	3°20	4°45	22°57	24° 1	18°25	20° 2	T 12
W 13	21 24 33	19°57'59	18°41	1° 9	5°24	11°25	21°19	3° 5	18°27	3°19	4°46	22°R57	23°58	18°32	20° 5	W 13
T 14	21 28 29	20°55'35	2♂47	2°16	6°27	11°26	21°13	3° 6	18°26	3°18	4°47	22°57	23°54	18°39	20° 8	T 14
F 15	21 32 26	21°53'13	17° 6	3°30	7°29	11°28	21° 7	3° 7	18°26	3°17	4°48	22°54	23°51	18°45	20°11	F 15
S 16	21 36 22	22°50'51	1♂36	4°49	8°31	11°31	21° 1	3° 8	18°25	3°16	4°49	22°50	23°48	18°52	20°14	S 16
S 17	21 40 19	23°48'31	16°11	6°14	9°32	11°34	20°55	3° 8	18°24	3°15	4°50	22°43	23°45	18°59	20°17	S 17
M 18	21 44 16	24°46'11	0♂46	7°43	10°33	11°39	20°49	3°10	18°24	3°15	4°51	22°34	23°42	19° 6	20°20	M 18
T 19	21 48 12	25°43'53	15°15	9°17	11°34	11°44	20°43	3°11	18°23	3°14	4°53	22°26	23°39	19°12	20°23	T 19
W 20	21 52 9	26°41'36	29°29	10°56	12°35	11°50	20°36	3°12	18°23	3°13	4°54	22°17	23°35	19°19	20°26	W 20
T 21	21 56 5	27°39'20	13♂25	12°38	13°35	11°56	20°29	3°13	18°23	3°12	4°55	22°10	23°32	19°26	20°28	T 21
F 22	22 0 2	28°37'06	26°59	14°24	14°35	12° 4	20°23	3°14	18°22	3°11	4°56	22° 5	23°29	19°32	20°31	F 22
S 23	22 3 58	29°34'53	10°Y 8	16°13	15°34	12°12	20°16	3°16	18°22	3°11	4°58	22° 3	23°26	19°39	20°34	S 23
S 24	22 7 55	0♂32'42	22°55	18° 4	16°34	12°21	20° 9	3°18	18°22	3°10	4°59	22°D 2	23°23	19°46	20°36	S 24
M 25	22 11 51	1°30'32	5♂21	19°57	17°32	12°31	20° 2	3°19	18°22	3° 9	5° 0	22° 3	23°19	19°52	20°39	M 25
T 26	22 15 48	2°28'24	17°31	21°53	18°31	12°42	19°54	3°21	18°22	3° 9	5° 1	22° 4	23°16	19°59	20°41	T 26
W 27	22 19 44	3°26'19	29°30	23°49	19°29	12°53	19°47	3°23	18°21	3° 8	5° 3	22°R 5	23°13	20° 6	20°43	W 27
T 28	22 23 41	4°24'15	11♂23	25°46	20°27	13° 5	19°40	3°25	18°D21	3° 7	5° 4	22° 4	23°10	20°13	20°46	T 28
F 29	22 27 38	5°22'12	23°14	27°45	21°24	13°18	19°32	3°27	18°21	3° 7	5° 6	22° 3	23° 7	20°19	20°48	F 29
S 30	22 31 34	6°20'12	5♂ 9	29°43	22°21	13°31	19°25	3°29	18°22	3° 6	5° 7	21°59	23° 4	20°26	20°50	S 30
S 31	22 35 31	7♂18'13	17♂11	1♂41	23♂17	13♂45	19♂17	3♂31	18♂22	3♂ 6	5♂ 9	21°Y53	23°Y 0	20♂33	20♂52	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	18n 9	26n30	3n54	16n59	4s 3	3n14	0n20	28s43	5s52	4s21	1s23	18s58	1n51	23s 3	0s 6	22s18	1n 6	2n28	16n27	9n26	9n32	26n54	18n11	4s51	
S 2	17 54	27 53	4 28	17 14	3 50	2 44	0 16	28 43	5 51	4 23	1 24	18 58	1 51	23 3	0 6	22 18	1 6	2 27	16 26	9 23	9 31	26 55	18 11	4 51	
S 3	17 39	27 59	4 51	17 28	3 36	2 14	0 11	28 43	5 50	4 24	1 24	18 58	1 51	23 3	0 6	22 18	1 6	2 26	16 26	9 20	9 30	26 56	18 11	4 52	
M 4	17 23	26 44	5 1	17 42	3 21	1 44	0 6	28 43	5 49	4 26	1 24	18 58	1 50	23 3	0 6	22 18	1 6	2 26	16 25	9 15	9 28	26 57	18 11	4 52	
T 5	17 7	24 13	4 57	17 55	3 6	1 15	0 2	28 42	5 48	4 28	1 24	18 58	1 50	23 3	0 6	22 18	1 6	2 25	16 24	9 11	9 27	26 59	18 11	4 53	
W 6	16 51	20 31	4 39	18 8	2 50	0 45	0s 3	28 41	5 47	4 30	1 25	18 59	1 50	23 3	0 6	22 18	1 6	2 24	16 24	9 6	9 26	27 0	18 11	4 53	
T 7	16 34	15 50	4 7	18 19	2 34	0 15	0 8	28 41	5 46	4 32	1 25	18 59	1 50	23 3	0 6	22 18	1 6	2 23	16 23	9 2	9 25	27 1	18 11	4 53	
F 8	16 17	10 24	3 22	18 30	2 18	0s15	0 13	28 40	5 44	4 34	1 25	18 59	1 49	23 3	0 6	22 18	1 6	2 22	16 23	8 59	9 24	27 2	18 10	4 54	
S 9	16 0	4 25	2 25	18 39	2 1	0 45	0 18	28 38	5 43	4 37	1 25	18 59	1 49	23 3	0 6	22 18	1 6	2 22	16 22	8 57	9 23	27 3	18 10	4 54	
S 10	15 43	1s50	1 20	18 47	1 45	1 15	0 23	28 37	5 41	4 39	1 26	19 0	1 49	23 3	0 6	22 19	1 5	2 21	16 22	8 56	9 21	27 4	18 10	4 54	
M11	15 25	8 6	0 10	18 53	1 28	1 45	0 28	28 35	5 40	4 41	1 26	19 0	1 49	23 2	0 6	22 19	1 5	2 20	16 21	8 55	9 20	27 6	18 10	4 55	
T 12	15 8	14 7	1s 3	18 57	1 12	2 15	0 34	28 34	5 38	4 44	1 26	19 0	1 48	23 2	0 6	22 19	1 5	2 19	16 20	8 55	9 19	27 7	18 10	4 55	
W13	14 50	19 31	2 13	19 0	0 56	2 45	0 39	28 32	5 36	4 46	1 26	19 1	1 48	23 2	0 6	22 19	1 5	2 18	16 20	8 56	9 18	27 8	18 10	4 55	
T 14	14 31	23 55	3 16	19 0	0 41	3 14	0 45	28 30	5 34	4 48	1 27	19 1	1 48	23 2	0 6	22 19	1 5	2 18	16 19	8 55	9 17	27 9	18 10	4 56	
F 15	14 13	26 55	4 7	18 57	0 26	3 44	0 50	28 28	5 32	4 51	1 27	19 1	1 48	23 2	0 6	22 19	1 5	2 17	16 19	8 54	9 16	27 10	18 9	4 56	
S 16	13 54	28 10	4 44	18 53	0 11	4 14	0 56	28 25	5 30	4 54	1 27	19 2	1 47	23 2	0 6	22 19	1 5	2 16	16 18	8 53	9 14	27 11	18 9	4 57	
S 17	13 35	27 28	5 2	18 45	0n 2	4 43	1 1	28 23	5 28	4 56	1 27	19 2	1 47	23 2	0 6	22 19	1 5	2 15	16 18	8 50	9 13	27 12	18 9	4 57	
M18	13 16	24 53	5 1	18 35	0 15	5 13	1 7	28 20	5 26	4 59	1 27	19 3	1 47	23 2	0 6	22 19	1 5	2 14	16 17	8 47	9 12	27 13	18 9	4 57	
T 19	12 57	20 44	4 41	18 23	0 28	5 42	1 13	28 18	5 24	5 2	1 28	19 3	1 47	23 2	0 6	22 19	1 5	2 13	16 17	8 44	9 11	27 14	18 9	4 58	
W20	12 37	15 27	4 3	18 7	0 39	6 11	1 19	28 15	5 21	5 4	1 28	19 3	1 46	23 2	0 6	22 19	1 5	2 12	16 16	8 41	9 10	27 15	18 8	4 58	
T 21	12 17	9 28	3 12	17 49	0 50	6 40	1 25	28 12	5 19	5 7	1 28	19 4	1 46	23 2	0 6	22 19	1 5	2 12	16 16	8 38	9 8	27 16	18 8	4 59	
F 22	11 57	3 12	2 10	17 28	0 59	7 9	1 31	28 9	5 17	5 10	1 28	19 4	1 46	23 2	0 6	22 19	1 5	2 11	16 15	8 36	9 7	27 17	18 8	4 59	
S 23	11 37	3n 2	1 4	17 4	1 8	7 37	1 37	28 6	5 14	5 13	1 28	19 5	1 46	23 2	0 6	22 19	1 5	2 10	16 15	8 35	9 6	27 18	18 8	4 59	
S 24	11 17	8 59	0n 5	16 38	1 16	8 6	1 43	28 2	5 12	5 16	1 29	19 5	1 46	23 2	0 6	22 19	1 5	2 9	16 14	8 35	9 5	27 19	18 7	5 0	
M25	10 56	14 26	1 11	16 9	1 23	8 34	1 49	27 59	5 9	5 19	1 29	19 6	1 45	23 2	0 6	22 19	1 5	2 8	16 13	8 35	9 4	27 20	18 7	5 0	
T 26	10 36	19 11	2 13	15 37	1 29	9 2	1 56	27 55	5 7	5 22	1 29	19 7	1 45	23 2	0 6	22 20	1 5	2 7	16 13	8 36	9 3	27 21	18 7	5 1	
W27	10 15	23 6	3 8	15 4	1 34	9 30	2 2	27 52	5 4	5 25	1 29	19 7	1 45	23 2	0 6	22 20	1 5	2 6	16 12	8 36	9 1	27 22	18 7	5 1	
T 28	9 54	26 1	3 54	14 28	1 38	9 58	2 8	27 48	5 1	5 28	1 29	19 8	1 45	23 2	0 6	22 20	1 5	2 5	16 12	8 36	9 0	27 23	18 6	5 2	
F 29	9 33	27 46	4 31	13 51	1 42	10 26	2 15	27 44	4 59	5 31	1 29	19 8	1 44	23 2	0 6	22 20	1 5	2 4	16 11	8 35	8 59	27 24	18 6	5 2	
S 30	9 11	28 16	4 55	13 12	1 44	10 53	2 21	27 40	4 56	5 34	1 30	19 9	1 44	23 2	0 6	22 20	1 5	2 3	16 11	8 34	8 58	27 25	18 6	5 2	
S 31	8n50	27n25	5n 7	12n31	1n46	11s20	2s28	27s36	4s54	5s37	1s30	19s10	1n44	23s 2	0s 6	22s20	1n 5	2n 2	16n10	8n32	8n57	27n26	18n 6	5s	

ASTRODIENST EPHEMERIS for the year 1986
geocentric

SEPTEMBER 1986

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	22 39 27	8♍16'17	29♌25	3♍40	24♌13	14♌0	19♍10	3♍34	18♍22	3♍5	5♍10	21♍46	22♍57	20♌39	20♌54	M 1
T 2	22 43 24	9°14'22	11♌52	5°37	25° 8	14°16	19♍2	3°36	18°22	3♌5	5°12	21♍39	22°54	20°46	20°56	T 2
W 3	22 47 20	10°12'28	24°35	7°35	26° 3	14°32	18°54	3°38	18°22	3° 5	5°13	21°31	22°51	20°53	20°58	W 3
T 4	22 51 17	11°10'37	7♍33	9°31	26°58	14°49	18°46	3°41	18°23	3° 4	5°15	21°25	22°48	20°59	21° 0	T 4
F 5	22 55 13	12° 8'47	20°45	11°27	27°52	15° 6	18°38	3°44	18°23	3° 4	5°17	21°20	22°45	21° 6	21° 2	F 5
S 6	22 59 10	13° 6'59	4♌11	13°22	28°45	15°24	18°31	3°46	18°24	3° 4	5°18	21°17	22°41	21°13	21° 3	S 6
S 7	23 3 7	14° 5'12	17°49	15°16	29°38	15°43	18°23	3°49	18°24	3° 3	5°20	21°D16	22°38	21°20	21° 5	S 7
M 8	23 7 3	15° 3'27	1♍37	17° 9	0♍30	16° 2	18°15	3°52	18°25	3° 3	5°22	21°16	22°35	21°26	21° 7	M 8
T 9	23 11 0	16° 1'44	15°33	19° 1	1°21	16°22	18° 7	3°55	18°25	3° 3	5°23	21°17	22°32	21°33	21° 8	T 9
W10	23 14 56	17° 0'02	29°36	20°52	2°12	16°43	17°59	3°58	18°26	3° 3	5°25	21°19	22°29	21°40	21° 9	W10
T 11	23 18 53	17°58'22	13♍45	22°42	3° 3	17° 4	17°51	4° 2	18°27	3° 3	5°27	21°R19	22°25	21°46	21°11	T 11
F 12	23 22 49	18°56'43	27°57	24°30	3°52	17°26	17°43	4° 5	18°27	3° 2	5°29	21°19	22°22	21°53	21°12	F 12
S 13	23 26 46	19°55'06	12♌11	26°18	4°41	17°48	17°35	4° 8	18°28	3° 2	5°31	21°18	22°19	22° 0	21°13	S 13
S 14	23 30 42	20°53'30	26°23	28° 4	5°29	18°11	17°27	4°12	18°29	3° 2	5°32	21°15	22°16	22° 7	21°14	S 14
M15	23 34 39	21°51'56	10♌32	29°49	6°16	18°34	17°19	4°15	18°30	3°D 2	5°34	21°11	22°13	22°13	21°15	M15
T 16	23 38 36	22°50'24	24°32	1♌33	7° 3	18°58	17°11	4°19	18°31	3° 2	5°36	21° 6	22°10	22°20	21°16	T 16
W17	23 42 32	23°48'53	8♌21	3°17	7°48	19°22	17° 3	4°23	18°32	3° 2	5°38	21° 2	22° 6	22°27	21°17	W17
T 18	23 46 29	24°47'24	21°55	4°59	8°33	19°47	16°55	4°27	18°33	3° 3	5°40	20°59	22° 3	22°33	21°18	T 18
F 19	23 50 25	25°45'57	5♍11	6°40	9°17	20°12	16°48	4°30	18°34	3° 3	5°42	20°57	22° 0	22°40	21°19	F 19
S 20	23 54 22	26°44'31	18° 9	8°19	9°59	20°37	16°40	4°34	18°35	3° 3	5°44	20°D56	21°57	22°47	21°20	S 20
S 21	23 58 18	27°43'08	0♌49	9°58	10°41	21° 3	16°32	4°38	18°36	3° 3	5°46	20°56	21°54	22°53	21°20	S 21
M22	0 2 15	28°41'47	13°13	11°36	11°22	21°30	16°25	4°42	18°38	3° 3	5°48	20°57	21°51	23° 0	21°21	M22
T 23	0 6 11	29°40'29	25°23	13°13	12° 2	21°57	16°17	4°47	18°39	3° 3	5°50	20°59	21°47	23° 7	21°21	T 23
W24	0 10 8	0♌39'12	7♍22	14°49	12°40	22°24	16°10	4°51	18°40	3° 4	5°52	21° 1	21°44	23°14	21°22	W24
T 25	0 14 5	1°37'58	19°15	16°24	13°18	22°52	16° 2	4°55	18°42	3° 4	5°54	21° 2	21°41	23°20	21°22	T 25
F 26	0 18 1	2°36'46	1♌7	17°59	13°54	23°20	15°55	5° 0	18°43	3° 4	5°56	21°R 2	21°38	23°27	21°22	F 26
S 27	0 21 58	3°35'36	13° 2	19°32	14°29	23°49	15°48	5° 4	18°45	3° 5	5°58	21° 2	21°35	23°34	21°23	S 27
S 28	0 25 54	4°34'28	25° 6	21° 4	15° 3	24°17	15°40	5° 9	18°46	3° 5	6° 1	21° 1	21°31	23°40	21°23	S 28
M29	0 29 51	5°33'23	7♍21	22°35	15°35	24°47	15°33	5°13	18°48	3° 6	6° 3	20°59	21°28	23°47	21°R23	M29
T 30	0 33 47	6♌32'20	19♌53	24♌6	16♌6	25♌16	15♌26	5♌18	18♌49	3♌6	6♌5	20°Y57	21°Y25	23♌54	21♌23	T 30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑	♒	♓	♈	♉		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
M 1	8n28	25n15	5n 6	11n49	1n46	11s47	2s34	27s32	4s51	5s40	1s30	19s10	1n44	23s 2	0s 6	22s20	1n 5	2n 2	16n10	8n29	8n56	27n27	18n 5	5s 3
T 2	8 6	21 52	4 50	11 6	1 47	12 14	2 41	27 27	4 48	5 43	1 30	19 11	1 43	23 2	0 6	22 20	1 5	2 1	16 10	8 26	8 54	27 28	18 5	5 4
W 3	7 45	17 24	4 19	10 22	1 46	12 40	2 48	27 23	4 46	5 46	1 30	19 12	1 43	23 2	0 6	22 20	1 5	2 0	16 9	8 24	8 53	27 29	18 5	5 4
T 4	7 23	12 4	3 35	9 37	1 45	13 6	2 54	27 18	4 43	5 50	1 30	19 12	1 43	23 2	0 6	22 20	1 4	1 59	16 9	8 21	8 52	27 30	18 4	5 5
F 5	7 0	6 5	2 38	8 52	1 43	13 32	3 1	27 14	4 40	5 53	1 30	19 13	1 43	23 2	0 6	22 20	1 4	1 58	16 8	8 19	8 51	27 31	18 4	5 5
S 6	6 38	0s16	1 31	8 5	1 41	13 57	3 8	27 9	4 37	5 56	1 30	19 14	1 43	23 2	0 6	22 20	1 4	1 57	16 8	8 18	8 50	27 32	18 4	5 6
S 7	6 16	6 42	0 19	7 19	1 38	14 22	3 15	27 4	4 35	5 59	1 30	19 15	1 42	23 2	0 6	22 20	1 4	1 56	16 7	8 18	8 48	27 33	18 3	5 6
M 8	5 53	12 55	0s56	6 32	1 35	14 47	3 21	26 59	4 32	6 2	1 31	19 15	1 42	23 2	0 6	22 20	1 4	1 55	16 7	8 18	8 47	27 34	18 3	5 7
T 9	5 31	18 33	2 9	5 44	1 31	15 12	3 28	26 53	4 29	6 5	1 31	19 16	1 42	23 2	0 6	22 20	1 4	1 54	16 6	8 18	8 46	27 35	18 2	5 7
W10	5 8	23 13	3 14	4 57	1 27	15 36	3 35	26 48	4 26	6 9	1 31	19 17	1 42	23 2	0 6	22 20	1 4	1 53	16 6	8 19	8 45	27 36	18 2	5 7
T 11	4 45	26 33	4 8	4 10	1 22	16 0	3 42	26 43	4 24	6 12	1 31	19 18	1 42	23 2	0 6	22 20	1 4	1 52	16 5	8 19	8 44	27 37	18 2	5 8
F 12	4 22	28 12	4 47	3 22	1 17	16 24	3 49	26 37	4 21	6 15	1 31	19 18	1 41	23 3	0 6	22 20	1 4	1 51	16 5	8 19	8 43	27 37	18 1	5 8
S 13	4 0	28 0	5 8	2 35	1 12	16 47	3 56	26 31	4 18	6 18	1 31	19 19	1 41	23 3	0 6	22 20	1 4	1 50	16 5	8 18	8 41	27 38	18 1	5 9
S 14	3 37	25 58	5 11	1 47	1 7	17 9	4 2	26 26	4 15	6 21	1 31	19 20	1 41	23 3	0 6	22 20	1 4	1 49	16 4	8 17	8 40	27 39	18 1	5 9
M15	3 14	22 19	4 55	1 0	1 1	17 32	4 9	26 20	4 13	6 24	1 31	19 21	1 41	23 3	0 6	22 21	1 4	1 48	16 4	8 16	8 39	27 40	18 0	5 10
T 16	2 51	17 27	4 21	0 13	0 55	17 54	4 16	26 13	4 10	6 27	1 31	19 22	1 40	23 3	0 6	22 21	1 4	1 47	16 3	8 14	8 38	27 41	18 0	5 10
W17	2 27	11 43	3 32	0s33	0 49	18 15	4 23	26 7	4 7	6 31	1 31	19 23	1 40	23 3	0 6	22 21	1 4	1 46	16 3	8 13	8 37	27 42	17 59	5 11
T 18	2 4	5 33	2 33	1 20	0 42	18 36	4 30	26 1	4 4	6 34	1 31	19 24	1 40	23 3	0 6	22 21	1 4	1 45	16 3	8 11	8 35	27 42	17 59	5 11
F 19	1 41	0n45	1 25	2 6	0 36	18 57	4 36	25 54	4 2	6 37	1 31	19 25	1 40	23 3	0 6	22 21	1 4	1 44	16 2	8 11	8 34	27 43	17 58	5 12
S 20	1 18	6 53	0 15	2 51	0 29	19 17	4 43	25 48	3 59	6 40	1 31	19 25	1 40	23 3	0 6	22 21	1 4	1 43	16 2	8 10	8 33	27 44	17 58	5 12
S 21	0 54	12 37	0n54	3 37	0 22	19 37	4 50	25 41	3 56	6 43	1 31	19 26	1 39	23 3	0 6	22 21	1 4	1 42	16 2	8 10	8 32	27 45	17 58	5 13
M22	0 31	17 42	2 0	4 21	0 15	19 56	4 56	25 34	3 53	6 46	1 31	19 27	1 39	23 3	0 6	22 21	1 4	1 41	16 1	8 11	8 31	27 46	17 57	5 13
T 23	0 8	22 0	2 58	5 6	0 8	20 15	5 3	25 27	3 51	6 48	1 31	19 28	1 39	23 4	0 6	22 21	1 4	1 41	16 1	8 11	8 30	27 47	17 57	5 14
W24	0s16	25 18	3 49	5 50	0 1	20 33	5 10	25 20	3 48	6 51	1 31	19 29	1 39	23 4	0 6	22 21	1 4	1 40	16 1	8 12	8 28	27 47	17 56	5 14
T 25	0 39	27 28	4 28	6 33	0s 6	20 51	5 16	25 12	3 45	6 54	1 31	19 30	1 39	23 4	0 6	22 21	1 4	1 39	16 0	8 12	8 27	27 48	17 56	5 15
F 26	1 2	28 23	4 57	7 16	0 13	21 8	5 22	25 5	3 43	6 57	1 31	19 31	1 38	23 4	0 6	22 21	1 4	1 38	16 0	8 13	8 26	27 49	17 55	5 15
S 27	1 26	27 59	5 13	7 58	0 21	21 25	5 29	24 57	3 40	7 0	1 31	19 32	1 38	23 4	0 6	22 21	1 3	1 37	16 0	8 13	8 25	27 50	17 55	5 16
S 28	1 49	26 16	5 15	8 39	0 28	21 41	5 35	24 50	3 37	7 2	1 31	19 33	1 38	23 4	0 6	22 21	1 3	1 36	15 59	8 12	8 24	27 50	17 54	5 16
M29	2 12	23 19	5 3	9 20	0 35	21 56	5 41	24 42	3 35	7 5	1 31	19 34	1 38	23 4	0 6	22 21	1 3	1 35	15 59	8 12	8 22	27 51	17 54	5 17
T 30	2s36	19n13	4n36	10s 1	0s43	22s11	5s47	24s34	3s32	7s 8	1s30	19s35	1n38	23s 4	0s 6	22s21	1n 3	1n34	15n59	8n11	8n21	27n52	17n53	5s17

ASTRODIENST EPHEMERIS for the year 1986

geocentric

OCTOBER 1986

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	0 37 44	7♂31'19	2♂43	25♂36	16♂36	25♂46	15°R20	5♂23	18♂51	3♂ 7	6♂ 7	20°R55	21°Y22	24♂ 0	21°R23	W 1
T 2	0 41 40	8°30'20	15°54	27° 4	17° 4	26°17	15♂13	5°28	18°53	3° 7	6° 9	20°Y54	21°19	24° 7	21°I22	T 2
F 3	0 45 37	9°29'23	29°24	28°32	17°30	26°48	15° 6	5°33	18°55	3° 8	6°11	20°52	21°16	24°14	21°22	F 3
S 4	0 49 34	10°28'28	13♂13	29°59	17°55	27°19	15° 0	5°37	18°56	3° 8	6°14	20°52	21°12	24°21	21°22	S 4
S 5	0 53 30	11°27'36	27°17	1♂25	18°19	27°50	14°53	5°43	18°58	3° 9	6°16	20°D52	21° 9	24°27	21°21	S 5
M 6	0 57 27	12°26'45	11♂33	2°50	18°40	28°22	14°47	5°48	19° 0	3°10	6°18	20°52	21° 6	24°34	21°21	M 6
T 7	1 1 23	13°25'57	25°55	4°14	19° 0	28°54	14°41	5°53	19° 2	3°10	6°20	20°53	21° 3	24°41	21°20	T 7
W 8	1 5 20	14°25'10	10♂20	5°37	19°17	29°26	14°35	5°58	19° 4	3°11	6°23	20°53	21° 0	24°47	21°20	W 8
T 9	1 9 16	15°24'25	24°42	6°59	19°33	29°59	14°29	6° 3	19° 6	3°12	6°25	20°54	20°57	24°54	21°19	T 9
F 10	1 13 13	16°23'42	8♂59	8°20	19°47	0♂32	14°24	6° 9	19° 8	3°13	6°27	20°54	20°53	25° 1	21°18	F 10
S 11	1 17 9	17°23'00	23° 8	9°39	19°58	1° 5	14°18	6°14	19°10	3°14	6°30	20°R54	20°50	25° 8	21°17	S 11
S 12	1 21 6	18°22'20	7♂ 7	10°58	20° 8	1°38	14°13	6°20	19°13	3°14	6°32	20°54	20°47	25°14	21°16	S 12
M13	1 25 3	19°21'42	20°54	12°15	20°15	2°12	14° 8	6°25	19°15	3°15	6°34	20°54	20°44	25°21	21°15	M13
T 14	1 28 59	20°21'06	4♂28	13°31	20°20	2°46	14° 3	6°31	19°17	3°16	6°37	20°54	20°41	25°28	21°14	T 14
W15	1 32 56	21°20'31	17°50	14°45	20°23	3°20	13°58	6°36	19°19	3°17	6°39	20°D54	20°37	25°34	21°13	W15
T 16	1 36 52	22°19'58	0°Y58	15°58	20°R24	3°55	13°53	6°42	19°22	3°18	6°41	20°54	20°34	25°41	21°12	T 16
F 17	1 40 49	23°19'28	13°53	17°10	20°22	4°29	13°49	6°48	19°24	3°19	6°44	20°54	20°31	25°48	21°11	F 17
S 18	1 44 45	24°18'59	26°34	18°19	20°17	5° 4	13°44	6°54	19°27	3°20	6°46	20°R54	20°28	25°55	21° 9	S 18
S 19	1 48 42	25°18'32	9♂ 1	19°27	20°11	5°39	13°40	6°59	19°29	3°21	6°49	20°54	20°25	26° 1	21° 8	S 19
M20	1 52 38	26°18'07	21°17	20°32	20° 2	6°15	13°36	7° 5	19°32	3°23	6°51	20°53	20°22	26° 8	21° 6	M20
T 21	1 56 35	27°17'45	3♂23	21°35	19°50	6°50	13°33	7°11	19°34	3°24	6°53	20°52	20°18	26°15	21° 5	T 21
W22	2 0 32	28°17'24	15°21	22°36	19°36	7°26	13°29	7°17	19°37	3°25	6°56	20°51	20°15	26°21	21° 3	W22
T 23	2 4 28	29°17'06	27°13	23°33	19°20	8° 2	13°26	7°23	19°39	3°26	6°58	20°50	20°12	26°28	21° 2	T 23
F 24	2 8 25	0♂16'50	9♂ 5	24°28	19° 1	8°38	13°22	7°30	19°42	3°27	7° 1	20°49	20° 9	26°35	21° 0	F 24
S 25	2 12 21	1°16'37	20°59	25°19	18°40	9°15	13°19	7°36	19°45	3°29	7° 3	20°49	20° 6	26°42	20°58	S 25
S 26	2 16 18	2°16'25	3♂ 0	26° 6	18°17	9°51	13°17	7°42	19°47	3°30	7° 5	20°D48	20° 2	26°48	20°56	S 26
M27	2 20 14	3°16'16	15°13	26°49	17°52	10°28	13°14	7°48	19°50	3°31	7° 8	20°49	19°59	26°55	20°54	M27
T 28	2 24 11	4°16'09	27°43	27°28	17°25	11° 5	13°11	7°54	19°53	3°33	7°10	20°50	19°56	27° 2	20°52	T 28
W29	2 28 7	5°16'04	10♂32	28° 1	16°56	11°42	13° 9	8° 1	19°56	3°34	7°13	20°51	19°53	27° 8	20°50	W29
T 30	2 32 4	6°16'01	23°46	28°28	16°25	12°19	13° 7	8° 7	19°59	3°35	7°15	20°52	19°50	27°15	20°48	T 30
F 31	2 36 1	7♂16'00	7♂24	28♂49	15♂53	12♂57	13♂ 5	8♂14	20♂ 1	3♂37	7♂18	20°Y53	19°Y47	27♂22	20♂46	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	2s59	14n10	3n56	10s40	0s50	22s26	5s53	24s25	3s29	7s10	1s30	19s36	1n38	23s 5	0s 6	22s21
T 2	3 22	8 21	3 2	11 19	0 57	22 39	5 58	24 17	3 27	7 13	1 30	19 37	1 37	23 5	0 6	22 21
F 3	3 46	2 1	1 56	11 58	1 5	22 52	6 4	24 8	3 24	7 15	1 30	19 38	1 37	23 5	0 6	22 21
S 4	4 9	4s34	0 42	12 35	1 12	23 4	6 9	24 0	3 22	7 18	1 30	19 39	1 37	23 5	0 6	22 21
S 5	4 32	11 4	0s36	13 12	1 19	23 16	6 14	23 51	3 19	7 20	1 30	19 40	1 37	23 5	0 6	22 21
M 6	4 55	17 5	1 52	13 48	1 26	23 27	6 19	23 42	3 16	7 22	1 30	19 41	1 37	23 5	0 6	22 21
T 7	5 18	22 11	3 2	14 24	1 33	23 37	6 24	23 33	3 14	7 25	1 30	19 43	1 36	23 6	0 6	22 21
W 8	5 41	25 59	4 1	14 58	1 40	23 46	6 28	23 23	3 11	7 27	1 30	19 44	1 36	23 6	0 6	22 21
T 9	6 4	28 5	4 45	15 32	1 47	23 55	6 33	23 14	3 9	7 29	1 30	19 45	1 36	23 6	0 6	22 21
F 10	6 27	28 18	5 10	16 4	1 53	24 2	6 36	23 4	3 6	7 31	1 29	19 46	1 36	23 6	0 6	22 21
S 11	6 50	26 40	5 17	16 36	2 0	24 9	6 40	22 55	3 4	7 33	1 29	19 47	1 36	23 6	0 6	22 21
S 12	7 12	23 24	5 4	17 7	2 6	24 15	6 43	22 45	3 1	7 35	1 29	19 48	1 36	23 6	0 6	22 21
M13	7 35	18 52	4 35	17 37	2 12	24 20	6 46	22 35	2 59	7 37	1 29	19 49	1 35	23 7	0 6	22 21
T 14	7 57	13 26	3 50	18 6	2 18	24 23	6 49	22 24	2 56	7 39	1 29	19 50	1 35	23 7	0 6	22 21
W15	8 20	7 28	2 53	18 33	2 24	24 26	6 51	22 14	2 54	7 40	1 29	19 51	1 35	23 7	0 6	22 21
T 16	8 42	1 16	1 48	19 0	2 29	24 28	6 52	22 3	2 51	7 42	1 28	19 52	1 35	23 7	0 6	22 21
F 17	9 4	4n53	0 39	19 25	2 34	24 28	6 53	21 53	2 49	7 44	1 28	19 53	1 35	23 7	0 6	22 21
S 18	9 26	10 44	0n31	19 50	2 39	24 28	6 54	21 42	2 47	7 45	1 28	19 55	1 35	23 8	0 6	22 22
S 19	9 48	16 4	1 39	20 13	2 43	24 26	6 54	21 31	2 44	7 47	1 28	19 56	1 34	23 8	0 6	22 22
M20	10 9	20 40	2 41	20 34	2 47	24 23	6 54	21 20	2 42	7 48	1 28	19 57	1 34	23 8	0 6	22 22
T 21	10 31	24 20	3 34	20 55	2 51	24 19	6 53	21 8	2 40	7 49	1 28	19 58	1 34	23 8	0 6	22 22
W22	10 52	26 55	4 18	21 14	2 54	24 13	6 51	20 57	2 37	7 50	1 27	19 59	1 34	23 8	0 6	22 22
T 23	11 13	28 15	4 50	21 31	2 57	24 6	6 48	20 45	2 35	7 52	1 27	20 0	1 34	23 9	0 6	22 22
F 24	11 34	28 17	5 10	21 47	2 59	23 58	6 45	20 33	2 33	7 53	1 27	20 1	1 34	23 9	0 6	22 22
S 25	11 55	27 1	5 16	22 1	3 1	23 48	6 42	20 22	2 30	7 54	1 27	20 2	1 34	23 9	0 6	22 22
S 26	12 16	24 30	5 9	22 13	3 1	23 37	6 37	20 9	2 28	7 54	1 27	20 4	1 33	23 9	0 6	22 22
M27	12 36	20 52	4 48	22 23	3 1	23 25	6 32	19 57	2 26	7 55	1 26	20 5	1 33	23 9	0 6	22 22
T 28	12 57	16 14	4 13	22 32	3 1	23 11	6 26	19 45	2 23	7 56	1 26	20 6	1 33	23 10	0 6	22 22
W29	13 17	10 47	3 25	22 38	2 59	22 56	6 19	19 32	2 21	7 57	1 26	20 7	1 33	23 10	0 6	22 22
T 30	13 37	4 41	2 24	22 41	2 57	22 40	6 11	19 20	2 19	7 57	1 26	20 8	1 33	23 10	0 6	22 22
F 31	13s56	1s48	1n14	22s43	2s53	22s23	6s 3	19s 7	2s17	7s58	1s26	20s 9	1n33	23s10	0s 6	22s22

Julian Day Number = 2446704.5, Delta T = 55.21 sec
 Ecliptic obliquity = 23°26'37", Nutation = - 0°00'06", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°33'19", Lahiri = 23°40'19"

ASTRODIENST EPHEMERIS for the year 1986
geocentric

NOVEMBER 1986

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 39 57	8♍16°01	21♊26	29♍ 3	15°R20	13♋34	13°R 4	8♌20	20♌ 4	3♊38	7♍20	20°R53	19♍43	27♊28	20°R43	S 1
S 2	2 43 54	9°16'04	5♍51	29°R 9	14♍45	14°12	13♋ 2	8°26	20° 7	3°40	7°22	20°Y53	19°40	27°35	20♊41	S 2
M 3	2 47 50	10°16'10	20°32	29° 8	14°10	14°50	13° 1	8°33	20°10	3°41	7°25	20°51	19°37	27°42	20°39	M 3
T 4	2 51 47	11°16'17	5♌23	28°57	13°34	15°28	13° 0	8°40	20°13	3°43	7°27	20°49	19°34	27°49	20°36	T 4
W 5	2 55 43	12°16'26	20°15	28°37	12°58	16° 6	12°59	8°46	20°16	3°44	7°30	20°46	19°31	27°55	20°34	W 5
T 6	2 59 40	13°16'36	5♊ 1	28° 7	12°21	16°44	12°59	8°53	20°19	3°46	7°32	20°43	19°28	28° 2	20°31	T 6
F 7	3 3 36	14°16'48	19°35	27°28	11°45	17°23	12°58	8°59	20°23	3°47	7°35	20°41	19°24	28° 9	20°28	F 7
S 8	3 7 33	15°17'02	3♋51	26°39	11° 9	18° 2	12°D58	9° 6	20°26	3°49	7°37	20°39	19°21	28°15	20°26	S 8
S 9	3 11 30	16°17'17	17°48	25°41	10°33	18°40	12°58	9°13	20°29	3°51	7°39	20°D39	19°18	28°22	20°23	S 9
M10	3 15 26	17°17'33	1♋24	24°34	9°59	19°19	12°58	9°20	20°32	3°52	7°42	20°39	19°15	28°29	20°20	M10
T 11	3 19 23	18°17'51	14°43	23°21	9°25	19°58	12°59	9°26	20°35	3°54	7°44	20°41	19°12	28°36	20°17	T 11
W12	3 23 19	19°18'10	27°44	22° 4	8°53	20°37	12°59	9°33	20°38	3°56	7°47	20°42	19° 8	28°42	20°15	W12
T 13	3 27 16	20°18'30	10♍Y30	20°44	8°22	21°17	13° 0	9°40	20°42	3°58	7°49	20°44	19° 5	28°49	20°12	T 13
F 14	3 31 12	21°18'52	23° 4	19°24	7°53	21°56	13° 1	9°47	20°45	3°59	7°51	20°R44	19° 2	28°56	20° 9	F 14
S 15	3 35 9	22°19'16	5♊27	18° 7	7°25	22°36	13° 3	9°54	20°48	4° 1	7°54	20°43	18°59	29° 2	20° 6	S 15
S 16	3 39 5	23°19'41	17°41	16°55	7° 0	23°15	13° 4	10° 1	20°52	4° 3	7°56	20°40	18°56	29° 9	20° 3	S 16
M17	3 43 2	24°20'08	29°47	15°50	6°36	23°55	13° 6	10° 8	20°55	4° 5	7°58	20°36	18°53	29°16	19°59	M17
T 18	3 46 59	25°20'36	11♊46	14°55	6°15	24°34	13° 8	10°15	20°58	4° 7	8° 1	20°30	18°49	29°23	19°56	T 18
W19	3 50 55	26°21'07	23°41	14°10	5°57	25°14	13°10	10°22	21° 2	4° 9	8° 3	20°23	18°46	29°29	19°53	W19
T 20	3 54 52	27°21'38	5♊33	13°37	5°40	25°54	13°12	10°29	21° 5	4°10	8° 5	20°16	18°43	29°36	19°50	T 20
F 21	3 58 48	28°22'12	17°24	13°16	5°26	26°34	13°14	10°36	21° 9	4°12	8° 8	20°10	18°40	29°43	19°47	F 21
S 22	4 2 45	29°22'47	29°18	13°D 6	5°15	27°14	13°17	10°43	21°12	4°14	8°10	20° 4	18°37	29°50	19°43	S 22
S 23	4 6 41	0♌23°24	11♊17	13° 7	5° 6	27°55	13°20	10°50	21°15	4°16	8°12	20° 0	18°34	29°56	19°40	S 23
M24	4 10 38	1°24'02	23°26	13°19	4°59	28°35	13°23	10°57	21°19	4°18	8°15	19°58	18°30	00° 3	19°37	M24
T25	4 14 34	2°24'42	5♍50	13°41	4°55	29°15	13°26	11° 4	21°22	4°20	8°17	19°D58	18°27	0°10	19°33	T25
W26	4 18 31	3°25'24	18°34	14°11	4°D54	29°56	13°30	11°11	21°26	4°22	8°19	19°59	18°24	0°16	19°30	W26
T27	4 22 28	4°26'07	1♊40	14°50	4°55	0♋36	13°33	11°18	21°29	4°24	8°21	20° 0	18°21	0°23	19°27	T27
F 28	4 26 24	5°26'52	15°14	15°35	4°58	1°17	13°37	11°25	21°33	4°26	8°24	20°R 1	18°18	0°30	19°23	F 28
S 29	4 30 21	6°27'38	29°16	16°27	5° 4	1°57	13°41	11°32	21°37	4°28	8°26	20° 1	18°14	0°37	19°20	S 29
S 30	4 34 17	7♌28°26	13♍46	17♍24	5♍12	2♋38	13♋45	11♌39	21♌40	4♊30	8♍28	19♍59	18♍11	00°43	19♊16	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	decl	lat
S 1	14s16	8s25	0s 3	22s41	2s48	22s 4	5s54	18s54	2s14	7s58	1s25	20s10	1n33	23s11	0s 6	22s22	1n 2	1n 6	15n54	8n 9	7n43	28n11	17n37	5s31					
S 2	14 35	14 45	1 22	22 36	2 42	21 44	5 44	18 41	2 12	7 59	1 25	20 12	1 33	23 11	0 6	22 22	1 2	1 5	15 54	8 9	7 42	28 11	17 36	5 32					
M 3	14 54	20 24	2 36	22 28	2 34	21 23	5 33	18 28	2 10	7 59	1 25	20 13	1 32	23 11	0 6	22 22	1 2	1 5	15 54	8 9	7 41	28 12	17 36	5 32					
T 4	15 13	24 50	3 41	22 17	2 25	21 2	5 22	18 14	2 8	7 59	1 25	20 14	1 32	23 11	0 6	22 22	1 2	1 4	15 54	8 8	7 39	28 12	17 35	5 32					
W 5	15 31	27 35	4 31	22 2	2 14	20 39	5 10	18 1	2 6	7 59	1 25	20 15	1 32	23 11	0 6	22 22	1 2	1 3	15 54	8 7	7 38	28 13	17 34	5 33					
T 6	15 50	28 23	5 3	21 44	2 2	20 16	4 58	17 47	2 4	7 59	1 24	20 16	1 32	23 12	0 6	22 22	1 2	1 2	15 54	8 6	7 37	28 13	17 34	5 33					
F 7	16 8	27 12	5 14	21 21	1 48	19 52	4 44	17 33	2 2	7 59	1 24	20 17	1 32	23 12	0 6	22 22	1 2	1 2	15 54	8 5	7 36	28 14	17 33	5 34					
S 8	16 25	24 15	5 6	20 54	1 32	19 28	4 31	17 20	2 0	7 59	1 24	20 18	1 32	23 12	0 6	22 22	1 2	1 1	15 54	8 4	7 35	28 14	17 33	5 34					
S 9	16 43	19 56	4 40	20 24	1 15	19 3	4 17	17 5	1 57	7 59	1 24	20 19	1 32	23 12	0 6	22 22	1 2	1 0	15 54	8 4	7 33	28 14	17 32	5 34					
M10	17 0	14 41	3 58	19 50	0 56	18 38	4 2	16 51	1 55	7 58	1 23	20 21	1 32	23 13	0 6	22 22	1 2	1 0	15 54	8 4	7 32	28 15	17 32	5 35					
T 11	17 17	8 52	3 5	19 13	0 37	18 13	3 47	16 37	1 53	7 58	1 23	20 22	1 32	23 13	0 6	22 22	1 2	0 59	15 54	8 5	7 31	28 15	17 31	5 35					
W12	17 33	2 47	2 3	18 33	0 16	17 49	3 32	16 23	1 51	7 58	1 23	20 23	1 31	23 13	0 6	22 21	1 2	0 58	15 54	8 5	7 30	28 16	17 31	5 35					
T 13	17 50	3n18	0 56	17 52	0n 4	17 24	3 17	16 8	1 49	7 57	1 23	20 24	1 31	23 13	0 6	22 21	1 2	0 58	15 54	8 6	7 29	28 16	17 30	5 36					
F 14	18 6	9 10	0n13	17 11	0 25	17 0	3 2	15 53	1 47	7 56	1 23	20 25	1 31	23 14	0 6	22 21	1 2	0 57	15 54	8 6	7 27	28 16	17 30	5 36					
S 15	18 21	14 35	1 20	16 31	0 45	16 37	2 46	15 39	1 45	7 56	1 22	20 26	1 31	23 14	0 6	22 21	1 2	0 56	15 54	8 5	7 26	28 17	17 29	5 36					
S 16	18 36	19 22	2 22	15 53	1 3	16 14	2 31	15 24	1 43	7 55	1 22	20 27	1 31	23 14	0 6	22 21	1 2	0 56	15 54	8 4	7 25	28 17	17 29	5 36					
M17	18 51	23 19	3 17	15 18	1 21	15 51	2 15	15 9	1 41	7 54	1 22	20 28	1 31	23 14	0 6	22 21	1 1	0 55	15 54	8 3	7 24	28 17	17 28	5 37					
T 18	19 6	26 12	4 2	14 47	1 36	15 30	2 0	14 54	1 39	7 53	1 22	20 29	1 31	23 15	0 6	22 21	1 1	0 55	15 55	8 1	7 23	28 18	17 28	5 37					
W19	19 20	27 54	4 37	14 21	1 50	15 9	1 45	14 38	1 37	7 52	1 21	20 30	1 31	23 15	0 6	22 21	1 1	0 54	15 55	7 58	7 21	28 18	17 27	5 37					
T 20	19 34	28 19	5 0	14 0	2 1	14 50	1 30	14 23	1 36	7 51	1 21	20 32	1 31	23 15	0 6	22 21	1 1	0 53	15 55	7 55	7 20	28 18	17 27	5 38					
F 21	19 48	27 25	5 9	13 45	2 11	14 31	1 15	14 8	1 34	7 50	1 21	20 33	1 31	23 15	0 6	22 21	1 1	0 53	15 55	7 53	7 19	28 19	17 26	5 38					
S 22	20 1	25 17	5 6	13 35	2 18	14 14	1 1	13 52	1 32	7 49	1 21	20 34	1 31	23 15	0 6	22 21	1 1	0 52	15 55	7 51	7 18	28 19	17 26	5 38					
S 23	20 14	22 1	4 49	13 30	2 24	13 57	0 47	13 36	1 30	7 47	1 20	20 35	1 30	23 16	0 6	22 21	1 1	0 52	15 55	7 49	7 16	28 19	17 25	5 38					
M24	20 27	17 47	4 19	13 29	2 28	13 42	0 33	13 21	1 28	7 46	1 20	20 36	1 30	23 16	0 6	22 21	1 1	0 51	15 56	7 49	7 15	28 20	17 25	5 39					
T 25	20 39	12 43	3 36	13 34	2 30	13 28	0 19	13 5	1 26	7 45	1 20	20 37	1 30	23 16	0 6	22 21	1 1	0 51	15 56	7 48	7 14	28 20	17 24	5 39					
W26	20 51	7 0	2 42	13 42	2 31	13 15	0 6	12 49	1 24	7 43	1 20	20 38	1 30	23 16	0 6	22 21	1 1	0 50	15 56	7 49	7 13	28 20	17 24	5 39					
T 27	21 2	0 50	1 38	13 53	2 30	13 4	0n 6	12 33	1 23	7 41	1 20	20 39	1 30	23 17	0 6	22 21	1 1	0 50	15 56	7 49	7 12	28 20	17 23	5 39					
F 28	21 13	5s36	0 26	14 8	2 29	12 53	0 19	12 17	1 21	7 40	1 19	20 40	1 30	23 17	0 6	22 21	1 1	0 49	15 56	7 50	7 10	28 21	17 23	5 40					
S 29	21 23	12 0	0s50	14 25	2 26	12 44	0 31	12 1	1 19	7 38	1 19	20 41	1 30	23 17	0 6	22 21	1 1	0 49	15 57	7 50	7 9	28 21	17 22	5 40					
S 30	21s34	17s57	2s 4	14s45	2n23	12s36	0n42	11s44	1s17	7s36	1s19	20s42	1n30	23s17	0s 6	22s21	1n 1	0n48	15n57	7n49	7n 8	28n21	17n22	5s40					

ASTRODIENST EPHEMERIS for the year 1986

geocentric

DECEMBER 1986

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	4 38 14	8°29'15	28♈40	18♈26	5♈22	3♈19	13♈50	11♈46	21♈44	4♈32	8♈30	19°R54	18°Y 8	0°S50	19°R13	M 1
T 2	4 42 10	9°30'06	13♈49	19°33	5°35	4° 0	13°54	11°53	21°47	4°35	8°32	19°Y48	18° 5	0°57	19°II 9	T 2
W 3	4 46 7	10°30'58	29° 4	20°42	5°49	4°41	13°59	12° 0	21°51	4°37	8°35	19°40	18° 2	1° 3	19° 5	W 3
T 4	4 50 3	11°31'51	14♈14	21°55	6° 6	5°22	14° 4	12° 8	21°54	4°39	8°37	19°31	17°59	1°10	19° 2	T 4
F 5	4 54 0	12°32'45	29° 9	23°11	6°25	6° 3	14° 9	12°15	21°58	4°41	8°39	19°24	17°55	1°17	18°58	F 5
S 6	4 57 57	13°33'39	13♈42	24°29	6°45	6°44	14°15	12°22	22° 2	4°43	8°41	19°18	17°52	1°24	18°55	S 6
S 7	5 1 53	14°34'34	27°48	25°49	7° 8	7°25	14°20	12°29	22° 5	4°45	8°43	19°15	17°49	1°30	18°51	S 7
M 8	5 5 50	15°35'30	11♈28	27°11	7°32	8° 6	14°26	12°36	22° 9	4°47	8°45	19°D13	17°46	1°37	18°47	M 8
T 9	5 9 46	16°36'27	24°42	28°34	7°58	8°47	14°32	12°43	22°13	4°50	8°47	19°13	17°43	1°44	18°44	T 9
W10	5 13 43	17°37'24	7°Y34	29°58	8°26	9°29	14°38	12°50	22°16	4°52	8°49	19°14	17°40	1°50	18°40	W10
T 11	5 17 39	18°38'22	20° 8	1♈23	8°56	10°10	14°44	12°57	22°20	4°54	8°51	19°R15	17°36	1°57	18°37	T 11
F 12	5 21 36	19°39'20	2♈28	2°50	9°27	10°51	14°50	13° 4	22°24	4°56	8°53	19°14	17°33	2° 4	18°33	F 12
S 13	5 25 32	20°40'20	14°37	4°17	9°59	11°33	14°57	13°11	22°27	4°58	8°55	19°10	17°30	2°11	18°29	S 13
S 14	5 29 29	21°41'19	26°40	5°45	10°34	12°14	15° 3	13°19	22°31	5° 1	8°57	19° 4	17°27	2°17	18°26	S 14
M15	5 33 26	22°42'20	8♈37	7°13	11° 9	12°56	15°10	13°26	22°34	5° 3	8°59	18°56	17°24	2°24	18°22	M15
T 16	5 37 22	23°43'21	20°31	8°42	11°46	13°37	15°17	13°33	22°38	5° 5	9° 1	18°44	17°20	2°31	18°18	T 16
W17	5 41 19	24°44'23	2♈24	10°11	12°24	14°19	15°25	13°40	22°42	5° 7	9° 3	18°31	17°17	2°37	18°15	W17
T 18	5 45 15	25°45'26	14°16	11°41	13° 4	15° 0	15°32	13°47	22°45	5° 9	9° 5	18°18	17°14	2°44	18°11	T 18
F 19	5 49 12	26°46'29	26°10	13°12	13°44	15°42	15°39	13°54	22°49	5°12	9° 6	18° 5	17°11	2°51	18° 8	F 19
S 20	5 53 8	27°47'33	8♈6	14°42	14°26	16°24	15°47	14° 1	22°53	5°14	9° 8	17°53	17° 8	2°58	18° 4	S 20
S 21	5 57 5	28°48'38	20° 8	16°13	15° 9	17° 5	15°55	14° 8	22°56	5°16	9°10	17°45	17° 5	3° 4	18° 0	S 21
M22	6 1 2	29°49'44	2♈17	17°44	15°53	17°47	16° 3	14°15	23° 0	5°19	9°12	17°38	17° 1	3°11	17°57	M22
T 23	6 4 58	0°30'50	14°39	19°16	16°38	18°29	16°11	14°22	23° 4	5°21	9°13	17°35	16°58	3°18	17°53	T 23
W24	6 8 55	1°51'57	27°17	20°47	17°25	19°10	16°19	14°29	23° 7	5°23	9°15	17°D34	16°55	3°25	17°50	W24
T 25	6 12 51	2°53'04	10♈16	22°19	18°12	19°52	16°28	14°35	23°11	5°25	9°17	17°R34	16°52	3°31	17°46	T 25
F 26	6 16 48	3°54'12	23°39	23°52	19° 0	20°34	16°36	14°42	23°14	5°28	9°18	17°34	16°49	3°38	17°43	F 26
S 27	6 20 44	4°55'21	7♈30	25°24	19°49	21°16	16°45	14°49	23°18	5°30	9°20	17°33	16°46	3°45	17°39	S 27
S 28	6 24 41	5°56'31	21°50	26°57	20°38	21°58	16°54	14°56	23°22	5°32	9°22	17°29	16°42	3°51	17°36	S 28
M29	6 28 37	6°57'41	6♈38	28°30	21°29	22°39	17° 3	15° 3	23°25	5°34	9°23	17°22	16°39	3°58	17°33	M29
T 30	6 32 34	7°58'51	21°46	0♈ 3	22°20	23°21	17°12	15° 9	23°29	5°37	9°25	17°13	16°36	4° 5	17°29	T 30
W31	6 36 31	9°3'002	7♈6	1♈37	23♈12	24♈ 3	17♈21	15♈16	23♈32	5♈39	9♈26	17°Y 2	16°Y33	4♈12	17°II26	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	21s43	23s 0	3s13	15s 6	2n19	12s29	0n53	11s28	1s15	7s34	1s19	20s43	1n30	23s18	0s 6	22s21
T 2	21 53	26 34	4 8	15 28	2 14	12 23	1 4	11 11	1 14	7 32	1 18	20 44	1 30	23 18	0 6	22 21
W 3	22 2	28 13	4 47	15 52	2 9	12 18	1 14	10 55	1 12	7 30	1 18	20 45	1 30	23 18	0 6	22 21
T 4	22 10	27 44	5 5	16 16	2 3	12 14	1 24	10 38	1 10	7 28	1 18	20 46	1 30	23 18	0 6	22 21
F 5	22 18	25 15	5 2	16 41	1 57	12 11	1 34	10 21	1 9	7 26	1 18	20 47	1 30	23 18	0 7	22 21
S 6	22 26	21 10	4 39	17 7	1 50	12 9	1 43	10 5	1 7	7 24	1 17	20 48	1 30	23 19	0 7	22 21
S 7	22 33	15 59	4 0	17 32	1 44	12 8	1 51	9 48	1 5	7 21	1 17	20 49	1 30	23 19	0 7	22 21
M 8	22 40	10 10	3 8	17 58	1 37	12 8	2 0	9 31	1 4	7 19	1 17	20 50	1 30	23 19	0 7	22 20
T 9	22 46	4 3	2 7	18 23	1 30	12 9	2 8	9 14	1 2	7 16	1 17	20 51	1 30	23 19	0 7	22 20
W10	22 52	2n 3	1 2	18 48	1 22	12 11	2 15	8 57	1 0	7 14	1 17	20 52	1 29	23 20	0 7	22 20
T 11	22 57	7 57	0n 5	19 13	1 15	12 14	2 22	8 40	0 59	7 11	1 16	20 53	1 29	23 20	0 7	22 20
F 12	23 2	13 26	1 10	19 37	1 8	12 17	2 29	8 23	0 57	7 9	1 16	20 54	1 29	23 20	0 7	22 20
S 13	23 7	18 19	2 11	20 1	1 0	12 21	2 35	8 5	0 55	7 6	1 16	20 54	1 29	23 20	0 7	22 20
S 14	23 11	22 25	3 5	20 24	0 53	12 26	2 42	7 48	0 54	7 3	1 16	20 55	1 29	23 20	0 7	22 20
M15	23 15	25 33	3 51	20 47	0 45	12 31	2 47	7 31	0 52	7 0	1 16	20 56	1 29	23 21	0 7	22 20
T 16	23 18	27 32	4 26	21 8	0 38	12 38	2 53	7 13	0 51	6 57	1 15	20 57	1 29	23 21	0 7	22 20
W17	23 20	28 15	4 50	21 29	0 30	12 44	3 2	6 56	0 49	6 54	1 15	20 58	1 29	23 21	0 7	22 20
T 18	23 22	27 39	5 1	21 49	0 23	12 52	3 3	6 38	0 48	6 51	1 15	20 59	1 29	23 21	0 7	22 20
F 19	23 24	25 48	4 58	22 8	0 15	12 59	3 7	6 21	0 46	6 48	1 15	21 0	1 29	23 22	0 7	22 20
S 20	23 25	22 48	4 43	22 26	0 8	13 8	3 11	6 3	0 45	6 45	1 15	21 1	1 29	23 22	0 7	22 20
S 21	23 26	18 48	4 15	22 43	0 1	13 16	3 15	5 46	0 43	6 42	1 14	21 1	1 29	23 22	0 7	22 20
M22	23 27	14 1	3 35	22 59	0s 6	13 26	3 19	5 28	0 42	6 39	1 14	21 2	1 29	23 22	0 7	22 20
T 23	23 26	8 35	2 45	23 14	0 13	13 35	3 22	5 11	0 40	6 35	1 14	21 3	1 29	23 22	0 7	22 19
W24	23 26	2 41	1 45	23 28	0 20	13 45	3 25	4 53	0 39	6 32	1 14	21 4	1 29	23 23	0 7	22 19
T 25	23 25	3s28	0 39	23 40	0 27	13 55	3 28	4 35	0 38	6 28	1 14	21 5	1 29	23 23	0 7	22 19
F 26	23 23	9 41	0s32	23 52	0 34	14 6	3 30	4 18	0 36	6 25	1 13	21 5	1 29	23 23	0 7	22 19
S 27	23 21	15 39	1 43	24 2	0 40	14 17	3 33	4 0	0 35	6 21	1 13	21 6	1 29	23 23	0 7	22 19
S 28	23 19	20 58	2 50	24 11	0 46	14 28	3 35	3 42	0 33	6 18	1 13	21 7	1 29	23 23	0 7	22 19
M29	23 16	25 10	3 48	24 19	0 53	14 39	3 36	3 24	0 32	6 14	1 13	21 8	1 29	23 24	0 7	22 19
T 30	23 12	27 42	4 31	24 25	0 58	14 51	3 38	3 7	0 31	6 10	1 13	21 9	1 29	23 24	0 7	22 19
W31	23s 8	28s10	4s56	24s30	1s 4	15s 2	3n39	2s49	0s29	6s 7	1s12	21s 9	1n29	23s24	0s 7	22s19

Julian Day Number = 2446765.5, Delta T = 55.28 sec

Ecliptic obliquity = 23°26'36", Nutation = - 0°00'07", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°33'27", Lahiri = 23°40'28"