



Astrodienst Ephemeris Tables for the year 2130

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 2130
geocentric

JANUARY 2130

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 41 53	10 ³ 18'26	20 ¹¹ 38	18 ¹⁷ 7	16 ¹³ 46	6 ¹⁷ 54	10 ¹⁷ 15	2 ¹¹ 28	2 ¹¹ 34	21 ¹¹ 58	1 ¹¹ 9	9 ¹¹ 33	10 ¹¹ 43	2 ¹¹ 51	8 ¹¹ 27	S 1
M 2	6 45 50	11 ¹ 19'34	2 ¹¹ 31	19 ¹ 13	18 ¹ 2	7 ¹ 32	10 ¹ 21	2 ¹ 32	2 ¹ 33	22 ¹ 0	1 ¹ 11	9 ¹ 34	10 ¹ 40	2 ¹ 58	8 ¹ 26	M 2
T 3	6 49 47	12 ¹ 20'42	14 ¹ 35	20 ¹ 22	19 ¹ 17	8 ¹ 10	10 ¹ 26	2 ¹ 36	2 ¹ 31	22 ¹ 2	1 ¹ 7	9 ¹ 34	10 ¹ 37	3 ¹ 5	8 ¹ 25	T 3
W 4	6 53 43	13 ¹ 21'51	26 ¹ 53	21 ¹ 34	20 ¹ 32	8 ¹ 48	10 ¹ 32	2 ¹ 40	2 ¹ 30	22 ¹ 3	1 ¹ 7	9 ¹ 33	10 ¹ 34	3 ¹ 11	8 ¹ 24	W 4
T 5	6 57 40	14 ¹ 23'00	9 ¹ 11	22 ¹ 47	21 ¹ 48	9 ¹ 26	10 ¹ 39	2 ¹ 44	2 ¹ 29	22 ¹ 5	1 ¹ 6	9 ¹ 31	10 ¹ 31	3 ¹ 18	8 ¹ 23	T 5
F 6	7 1 36	15 ¹ 24'10	22 ¹ 32	24 ¹ 3	23 ¹ 3	10 ¹ 4	10 ¹ 45	2 ¹ 47	2 ¹ 27	22 ¹ 6	1 ¹ 5	9 ¹ 28	10 ¹ 27	3 ¹ 25	8 ¹ 22	F 6
S 7	7 5 33	16 ¹ 25'20	5 ¹ 17	25 ¹ 19	24 ¹ 19	10 ¹ 42	10 ¹ 51	2 ¹ 51	2 ¹ 26	22 ¹ 8	1 ¹ 4	9 ¹ 25	10 ¹ 24	3 ¹ 31	8 ¹ 22	S 7
S 8	7 9 29	17 ¹ 26'30	19 ¹ 51	26 ¹ 38	25 ¹ 34	11 ¹ 20	10 ¹ 58	2 ¹ 54	2 ¹ 24	22 ¹ 9	1 ¹ 3	9 ¹ 21	10 ¹ 21	3 ¹ 38	8 ¹ 21	S 8
M 9	7 13 26	18 ¹ 27'40	4 ¹ 17	27 ¹ 58	26 ¹ 49	11 ¹ 58	11 ¹ 5	2 ¹ 58	2 ¹ 22	22 ¹ 11	1 ¹ 3	9 ¹ 18	10 ¹ 18	3 ¹ 45	8 ¹ 21	M 9
T 10	7 17 23	19 ¹ 28'50	18 ¹ 42	29 ¹ 18	28 ¹ 5	12 ¹ 37	11 ¹ 12	3 ¹ 1	2 ¹ 21	22 ¹ 12	1 ¹ 2	9 ¹ 16	10 ¹ 15	3 ¹ 51	8 ¹ 20	T 10
W 11	7 21 19	20 ¹ 30'00	3 ¹ 29	0 ¹ 34	29 ¹ 20	13 ¹ 15	11 ¹ 19	3 ¹ 5	2 ¹ 19	22 ¹ 13	1 ¹ 1	9 ¹ 15	10 ¹ 11	3 ¹ 58	8 ¹ 20	W 11
T 12	7 25 16	21 ¹ 31'10	18 ¹ 21	2 ¹ 3	0 ¹ 36	13 ¹ 53	11 ¹ 26	3 ¹ 8	2 ¹ 17	22 ¹ 15	1 ¹ 1	9 ¹ 16	10 ¹ 8	4 ¹ 5	8 ¹ 19	T 12
F 13	7 29 12	22 ¹ 32'19	3 ¹ 11	3 ¹ 27	1 ¹ 51	14 ¹ 32	11 ¹ 34	3 ¹ 11	2 ¹ 15	22 ¹ 16	1 ¹ 0	9 ¹ 16	10 ¹ 5	4 ¹ 11	8 ¹ 19	F 13
S 14	7 33 9	23 ¹ 33'27	17 ¹ 50	4 ¹ 52	3 ¹ 6	15 ¹ 10	11 ¹ 41	3 ¹ 14	2 ¹ 14	22 ¹ 17	0 ¹ 59	9 ¹ 18	10 ¹ 2	4 ¹ 18	8 ¹ 19	S 14
S 15	7 37 5	24 ¹ 34'35	2 ¹ 15	6 ¹ 18	4 ¹ 22	15 ¹ 49	11 ¹ 49	3 ¹ 17	2 ¹ 12	22 ¹ 19	0 ¹ 59	9 ¹ 19	9 ¹ 59	4 ¹ 25	8 ¹ 18	S 15
M 16	7 41 2	25 ¹ 35'43	16 ¹ 24	7 ¹ 44	5 ¹ 37	16 ¹ 27	11 ¹ 57	3 ¹ 19	2 ¹ 10	22 ¹ 20	0 ¹ 58	9 ¹ 20	9 ¹ 56	4 ¹ 31	8 ¹ 18	M 16
T 17	7 44 58	26 ¹ 36'50	0 ¹ 13	9 ¹ 11	6 ¹ 53	17 ¹ 6	12 ¹ 5	3 ¹ 22	2 ¹ 8	22 ¹ 21	0 ¹ 58	9 ¹ 20	9 ¹ 52	4 ¹ 38	8 ¹ 18	T 17
W 18	7 48 55	27 ¹ 37'56	13 ¹ 44	10 ¹ 39	8 ¹ 8	17 ¹ 45	12 ¹ 13	3 ¹ 25	2 ¹ 6	22 ¹ 22	0 ¹ 57	9 ¹ 19	9 ¹ 49	4 ¹ 45	8 ¹ 18	W 18
T 19	7 52 52	28 ¹ 39'01	26 ¹ 58	12 ¹ 7	9 ¹ 23	18 ¹ 23	12 ¹ 22	3 ¹ 27	2 ¹ 4	22 ¹ 24	0 ¹ 56	9 ¹ 18	9 ¹ 46	4 ¹ 51	8 ¹ 18	T 19
F 20	7 56 48	29 ¹ 40'05	9 ¹ 11	13 ¹ 36	10 ¹ 39	19 ¹ 2	12 ¹ 30	3 ¹ 30	2 ¹ 2	22 ¹ 25	0 ¹ 56	9 ¹ 17	9 ¹ 43	4 ¹ 58	8 ¹ 18	F 20
S 21	8 0 45	0 ¹ 41'09	22 ¹ 38	15 ¹ 6	11 ¹ 54	19 ¹ 41	12 ¹ 39	3 ¹ 32	2 ¹ 0	22 ¹ 26	0 ¹ 55	9 ¹ 16	9 ¹ 40	5 ¹ 5	8 ¹ 18	S 21
S 22	8 4 41	1 ¹ 42'12	5 ¹ 17	16 ¹ 36	13 ¹ 9	20 ¹ 19	12 ¹ 48	3 ¹ 34	1 ¹ 57	22 ¹ 27	0 ¹ 55	9 ¹ 15	9 ¹ 36	5 ¹ 11	8 ¹ 19	S 22
M 23	8 8 38	2 ¹ 43'15	17 ¹ 26	18 ¹ 7	14 ¹ 24	20 ¹ 58	12 ¹ 57	3 ¹ 36	1 ¹ 55	22 ¹ 28	0 ¹ 54	9 ¹ 14	9 ¹ 33	5 ¹ 18	8 ¹ 19	M 23
T 24	8 12 34	3 ¹ 44'17	29 ¹ 35	19 ¹ 38	15 ¹ 40	21 ¹ 37	13 ¹ 6	3 ¹ 38	1 ¹ 53	22 ¹ 29	0 ¹ 54	9 ¹ 13	9 ¹ 30	5 ¹ 25	8 ¹ 19	T 24
W 25	8 16 31	4 ¹ 45'17	11 ¹ 11	21 ¹ 10	16 ¹ 55	22 ¹ 16	13 ¹ 15	3 ¹ 40	1 ¹ 51	22 ¹ 30	0 ¹ 54	9 ¹ 13	9 ¹ 27	5 ¹ 31	8 ¹ 20	W 25
T 26	8 20 27	5 ¹ 46'18	23 ¹ 30	22 ¹ 43	18 ¹ 10	22 ¹ 55	13 ¹ 24	3 ¹ 42	1 ¹ 49	22 ¹ 31	0 ¹ 53	9 ¹ 13	9 ¹ 24	5 ¹ 38	8 ¹ 20	T 26
F 27	8 24 24	6 ¹ 47'17	5 ¹ 11	24 ¹ 16	19 ¹ 25	23 ¹ 34	13 ¹ 34	3 ¹ 44	1 ¹ 46	22 ¹ 32	0 ¹ 53	9 ¹ 14	9 ¹ 21	5 ¹ 45	8 ¹ 21	F 27
S 28	8 28 21	7 ¹ 48'16	17 ¹ 8	25 ¹ 50	20 ¹ 40	24 ¹ 12	13 ¹ 43	3 ¹ 45	1 ¹ 44	22 ¹ 33	0 ¹ 52	9 ¹ 14	9 ¹ 17	5 ¹ 51	8 ¹ 21	S 28
S 29	8 32 17	8 ¹ 49'14	28 ¹ 58	27 ¹ 25	21 ¹ 56	24 ¹ 51	13 ¹ 53	3 ¹ 47	1 ¹ 42	22 ¹ 34	0 ¹ 52	9 ¹ 14	9 ¹ 14	5 ¹ 58	8 ¹ 22	S 29
M 30	8 36 14	9 ¹ 50'12	10 ¹ 52	29 ¹ 0	23 ¹ 11	25 ¹ 30	14 ¹ 3	3 ¹ 48	1 ¹ 39	22 ¹ 34	0 ¹ 52	9 ¹ 14	9 ¹ 11	6 ¹ 5	8 ¹ 23	M 30
T 31	8 40 10	10 ¹ 51'09	22 ¹ 55	0 ¹ 36	24 ¹ 26	26 ¹ 9	14 ¹ 13	3 ¹ 11	1 ¹ 37	22 ¹ 35	0 ¹ 51	9 ¹ 14	9 ¹ 8	6 ¹ 11	8 ¹ 23	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
S 1	23s 1	6n53	3n27	21s 7	1n47	23s15	0s53	2n41	0s 4	2n51	1 s18	10s 4	2n24	11n17	0n47	16s36	1n42	7n 7	13s32	17n51	17n32	12n16	13n 3	1s20					
M 2	22 56	2 51	4 12	21 21	1 38	23 7	0 55	2 57	0 2	2 54	1 18	10 5	2 24	11 17	0 47	16 36	1 42	7 7	13 32	17 51	17 33	12 14	13 2	1 20					
T 3	22 51	1s21	4 46	21 35	1 30	22 59	0 57	3 13	0 1	2 56	1 18	10 6	2 24	11 18	0 47	16 36	1 43	7 7	13 31	17 50	17 34	12 12	13 2	1 20					
W 4	22 45	5 35	5 7	21 48	1 21	22 50	0 59	3 29	0n 0	2 59	1 17	10 7	2 25	11 18	0 47	16 37	1 43	7 7	13 31	17 51	17 35	12 11	13 2	1 20					
T 5	22 39	9 40	5 15	22 1	1 12	22 40	1 1	3 46	0 2	3 2	1 17	10 8	2 25	11 19	0 47	16 37	1 43	7 7	13 31	17 51	17 35	12 9	13 1	1 20					
F 6	22 32	13 27	5 7	22 14	1 4	22 29	1 3	4 2	0 3	3 4	1 17	10 9	2 25	11 19	0 47	16 38	1 43	7 7	13 31	17 52	17 36	12 7	13 1	1 20					
S 7	22 25	16 40	4 42	22 25	0 55	22 18	1 4	4 18	0 4	3 7	1 17	10 10	2 25	11 20	0 47	16 38	1 43	7 7	13 30	17 53	17 37	12 6	13 1	1 20					
S 8	22 17	19 3	4 0	22 36	0 47	22 6	1 6	4 34	0 6	3 10	1 16	10 11	2 26	11 20	0 47	16 38	1 43	7 7	13 30	17 54	17 38	12 4	13 1	1 20					
M 9	22 9	20 19	3 2	22 46	0 38	21 53	1 8	4 50	0 7	3 13	1 16	10 12	2 26	11 21	0 47	16 39	1 43	7 7	13 30	17 55	17 39	12 2	13 0	1 20					
T 10	22 0	20 17	1 51	22 55	0 30	21 40	1 9	5 6	0 8	3 16	1 16	10 13	2 26	11 22	0 47	16 39	1 43	7 7	13 30	17 55	17 40	12 1	13 0	1 20					
W 11	21 51	18 51	0 32	23 3	0 22	21 26	1 11	5 22	0 9	3 19	1 15	10 14	2 26	11 22	0 47	16 39	1 43	7 8	13 29	17 55	17 41	11 59	13 0	1 20					
T 12	21 42	16 7	0s50	23 11	0 14	21 11	1 12	5 38	0 11	3 22	1 15	10 15	2 27	11 23	0 47	16 39	1 43	7 8	13 29	17 55	17 41	11 57	13 0	1 20					
F 13	21 32	12 20	2 9	23 17	0 6	20 56	1 14	5 54	0 12	3 25	1 15	10 16	2 27	11 24	0 47	16 40	1 43	7 8	13 29	17 55	17 42	11 56	13 0	1 20					
S 14	21 22	7 51	3 18	23 22	0s 2	20 40	1 15	6 10	0 13	3 28	1 15	10 16	2 27	11 24	0 47	16 40	1 43	7 8	13 29	17 55	17 43	11 54	13 0	1 20					
S 15	21 11	2 59	4 13	23 26	0 10	20 23	1 16	6 26	0 14	3 32	1 14	10 17	2 27	11 25	0 47	16 40	1 43	7 8	13 28	17 55	17 44	11 52	13 0	1 20					
M 16	21 0	1n56	4 52	23 29	0 17	20 6	1 18	6 42	0 15	3 35	1 14	10 18	2 28	11 26	0 47	16 41	1 43	7 8	13 28	17 54	17 45	11 51	13 0	1 20					
T 17	20 49	6 39	5 13	23 31	0 25	19 49	1 19	6 58	0 16	3 38	1 14	10 19	2 28	11 26	0 47	16 41	1 43	7 8	13 28	17 54	17 46	11 49	13 0	1 20					
W 18	20 37	10 55	5 16	23 31	0 32	19 31	1 20	7 14	0 17	3 42	1 14	10 19	2 28	11 27	0 47	16 41	1 43	7 9	13 28	17 55	17 47	11 47	13 0	1 20					
T 19	20 25	14 33	5 2	23 31	0 39	19 12	1 21	7 29	0 19	3 45	1 13	10 20	2 28	11 28	0 47	16 41	1 43	7 9	13 27	17 55	17 47	11 45	13 0	1 20					
F 20	20 12	17 25	4 33	23 29	0 45	18 52	1 22	7 45	0 20	3 49	1 13	10 20	2 29	11 29	0 47	16 42	1 43	7 9	13 27	17 55	17 48	11 44	13 0	1 20					
S 21	19 59	19 22	3 51	23 26	0 52	18 32	1 23	8 1	0 21	3 52	1 13	10 21	2 29	11 30	0 47	16 42	1 43	7 9	13 27	17 55	17 49	11 42	13 0	1 20					
S 22	19 46	20 21	2 58	23 21	0 58	18 12	1 24	8 16	0 22	3 56	1 13	10 21	2 29	11 30	0 47	16 42	1 43	7 9	13 27	17 56	17 50	11 40	13 0	1 20					
M 23	19 32	20 20	1 58	23 15	1 4	17 51	1 25	8 32	0 23	4 0	1 13	10 22	2 29	11 31	0 47	16 42	1 43	7 9	13 26	17 56	17 51	11 39	13 0	1 20					
T 24	19 18	19 21	0 53	23 8	1 10	17 30	1 26	8 47	0 24	4 3	1 12	10 22	2 30	11 32	0 47	16 42	1 44	7 10	13 26	17 56	17 52	11 37	13 0	1 20					
W 25	19 4	17 30	0n13	23 0	1 16	17 8	1 27	9 3	0 25	4 7	1 12	10 23	2 30	11 33	0 47	16 43	1 44	7 10	13 26	17 56	17 52	11 35	13 0	1 20					
T 26	18 49	14 55	1 19	22 50	1 21	16 45	1 27	9 18	0 26	4 11	1 12	10 23	2 30	11 34	0 47	16 43	1 44	7 10	13 25	17 56	17 53	11 34	13 0	1 20					
F 27	18 34	11 43	2 20	22 39	1 26	16 22	1 28	9 33	0 27	4 15	1 12	10 23	2 30	11 34	0 47	16 43	1 44	7 10	13 25	17 56	17 54	11 32	13 0	1 20					
S 28	18 18	8 5	3 16	22 27	1 31	15 59	1 28	9 49	0 28	4 19	1 11	10 24	2 31	11 35	0 47	16 43	1 44	7 10	13 25	17 56	17 55	11 30	13 1	1 20					
S 29	18 2	4 8	4 3	22 13	1 35	15 35	1 29	10 4	0 29	4 23	1 11	10 24	2 31	11 36	0 47	16 43	1 44	7 11	13 25	17 56	17 56	11 28	13 1	1 20					
M 30	17 46	0s 0	4 40	21 58	1 40	15 11	1 29	10 19	0 30	4 27	1 11	10 24	2 31	11 37	0 47	16 44	1 44	7 11	13 24	17 56	17 57	11 27	13 1	1 20					
T 31	17s30	4s10	5n 5	21s42	1s44	14s47	1s30	10n34	0n30	4n31	1s11	10s24	2n31	11n38	0n47	16s44	1n44	7n11	13s24	17n56	17n57	11n25	13n 1	1s20					

ASTRODIENST EPHEMERIS for the year 2130

geocentric

FEBRUARY 2130

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 44 7	11°52'05"	5°11'10"	2°52'12"	25°55'41"	26°48'48"	14°23'23"	3°11'51"	1°R35	22°36'36"	0°R51	9°R14	9°52'18"	6°18'18"	8°24'24"	W 1
T 2	8 48 3	12°53'01"	17°43'37"	3°49'27"	26°56'27"	27°27'14"	14°33'33"	3°52'11"	1°M32	22°37'22"	0°I51	9°D14	9°2'25"	6°25'25"	8°25'25"	T 2
F 3	8 52 0	13°53'56"	0°57'37"	5°27'13"	28°11'28"	28°6'14"	14°44'54"	3°53'12"	1°30	22°37'22"	0°51	9°D14	8°58'38"	6°31'31"	8°26'26"	F 3
S 4	8 55 56	14°54'50"	13°57'7"	7°5'29"	28°45'29"	28°45'14"	14°54'54"	3°53'12"	1°27	22°38'22"	0°50	9°14	8°55'38"	6°38'38"	8°27'27"	S 4
S 5	8 59 53	15°55'43"	27°43'8"	8°45'04"	29°24'29"	29°24'15"	15°5'35"	3°54'12"	1°25	22°39'22"	0°50	9°15	8°52'45"	6°45'45"	8°28'28"	S 5
M 6	9 3 50	16°56'36"	11°56'10"	10°25'12"	1°57'08"	0°8'3	15°15'35"	3°55'12"	1°22	22°39'22"	0°50	9°16	8°49'51"	6°51'51"	8°29'29"	M 6
T 7	9 7 46	17°57'28"	26°33'12"	12°5'31"	3°12'04"	0°42'15"	15°26'35"	3°55'12"	1°20	22°40'22"	0°50	9°16	8°46'58"	6°58'58"	8°30'30"	T 7
W 8	9 11 43	18°58'19"	11°58'13"	13°47'42"	4°27'12"	1°21'15"	15°37'35"	3°56'11"	1°17	22°40'22"	0°50	9°R16	8°42'7"	7°5'8"	8°32'32"	W 8
T 9	9 15 39	19°59'08"	26°39'15"	15°29'54"	5°42'2°	1°15°48"	15°48'35"	3°56'11"	1°15	22°41'22"	0°50	9°16	8°39'71"	7°11'11"	8°33'33"	T 9
F 10	9 19 36	20°59'57"	11°59'17"	17°12'6"	6°57'2°	1°15°59"	15°59'35"	3°56'11"	1°12	22°41'22"	0°50	9°15	8°36'71"	7°18'18"	8°34'34"	F 10
S 11	9 23 32	22°0'43"	26°53'18"	18°56'8"	8°12'3°	1°16°10"	16°10'35"	3°56'11"	1°9	22°42'22"	0°50	9°14	8°33'72"	7°25'25"	8°36'36"	S 11
S 12	9 27 29	23°1'29"	11°41'20"	20°40'9"	9°27'3°	1°16°22"	16°22'35"	3°56'11"	1°7	22°42'22"	0°49	9°12	8°30'73"	7°31'31"	8°37'37"	S 12
M13	9 31 25	24°2'13"	26°7'22"	22°25'10"	10°42'4°	1°16°33"	16°33'35"	3°56'11"	1°4	22°42'22"	0°49	9°10	8°27'73"	7°38'38"	8°39'39"	M13
T 14	9 35 22	25°2'55"	10°8'7"	24°12'11"	11°57'5°	1°16°45"	16°45'35"	3°56'11"	1°2	22°43'22"	0°D49	9°9	8°23'74"	7°44'44"	8°40'40"	T 14
W15	9 39 19	26°3'36"	23°42'25"	25°59'13"	11°55'5°	1°16°56"	16°56'35"	3°56'11"	0°59	22°43'22"	0°49	9°D8	8°20'75"	7°51'51"	8°42'42"	W15
T 16	9 43 15	27°4'15"	6°11'27"	27°46'14"	14°26'6"	1°17°8"	17°8'35"	3°55'11"	0°56	22°43'22"	0°50	9°9	8°17'75"	7°58'58"	8°44'44"	T 16
F 17	9 47 12	28°4'52"	19°41'29"	29°35'15"	15°41'7"	1°17°20"	17°20'35"	3°55'11"	0°54	22°43'22"	0°50	9°10	8°14'8°	7°45'45"	8°45'45"	F 17
S 18	9 51 8	29°5'28"	2°11'14"	14°24'16"	16°56'7"	1°17°32"	17°32'35"	3°54'11"	0°51	22°44'22"	0°50	9°11	8°11'8°	7°47'47"	8°47'47"	S 18
S 19	9 55 5	0°6'02"	14°27'3°	14°18"	18°11'8"	1°17°44"	17°44'35"	3°54'11"	0°48	22°44'22"	0°50	9°13	8°8'8°	7°48'48"	8°49'49"	S 19
M20	9 59 1	1°6'34"	26°32'5°	19°25'9"	19°25'9"	1°17°56"	17°56'35"	3°53'11"	0°46	22°44'22"	0°50	9°14	8°4'8°	7°49'49"	8°51'51"	M20
T 21	10 2 58	2°7'05"	8°12'30"	6°56'20"	20°40'9"	1°18°8"	18°8'35"	3°52'11"	0°43	22°44'22"	0°50	9°R15	8°1'8°	7°51'51"	8°53'53"	T 21
W22	10 6 54	3°7'34"	20°22'8"	8°47'21"	21°55'10"	1°18°20"	18°20'35"	3°51'11"	0°41	22°44'22"	0°50	9°14	7°58'8°	7°58'58"	8°55'55"	W22
T 23	10 10 51	4°8'01"	2°11'10"	10°39'23"	23°10'11"	1°18°32"	18°32'35"	3°50'11"	0°38	22°R44	0°50	9°12	7°55'8°	7°55'55"	8°57'57"	T 23
F 24	10 14 47	5°8'27"	14°0'12"	12°32'24"	24°24'11"	1°18°45"	18°45'34"	3°48'11"	0°35	22°44'22"	0°51	9°9	7°52'8°	7°52'52"	8°59'59"	F 24
S 25	10 18 44	6°8'51"	25°51'14"	24°25'25"	25°39'12"	1°18°57"	18°57'34"	3°47'11"	0°33	22°44'22"	0°51	9°5	7°48'8°	7°48'48"	9°1'1"	S 25
S 26	10 22 41	7°9'13"	7°44'16"	16°17'26"	26°53'13"	1°19°10"	19°10'34"	3°46'11"	0°30	22°44'22"	0°51	9°0	7°45'8°	7°45'45"	9°3'3"	S 26
M27	10 26 37	8°9'34"	19°44'18"	18°9'28"	28°8'13"	1°19°22"	19°22'34"	3°44'11"	0°27	22°44'22"	0°51	8°55	7°42'8°	7°42'42"	9°6'6"	M27
T 28	10 30 34	9°9'54"	1°11'20"	20°14'29"	29°22'14"	1°19°35"	19°35'34"	3°42'11"	0°25	22°44'22"	0°51	8°50	7°39'8°	7°39'39"	9°8'8"	T 28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	17s13	8s15	5n17	21s24	1s47	14s22	1s30	10n49	0n31	4n35	1s11	10s25	2n32	11n39	0n47	16s44	1n44	7n11	13s24	17n56	17n58	11n23	13n 2	1s20			
T 2	16 56	12 4	5 15	21 5	1 51	13 56	1 30	11 4	0 32	4 39	1 10	10 25	2 32	11 40	0 47	16 44	1 44	7 12	13 23	17 56	17 59	11 21	13 2	1 20			
F 3	16 39	15 26	4 56	20 44	1 54	13 30	1 30	11 18	0 33	4 43	1 10	10 25	2 32	11 40	0 47	16 44	1 44	7 12	13 23	17 56	18 0	11 20	13 2	1 20			
S 4	16 21	18 8	4 22	20 22	1 57	13 4	1 30	11 33	0 34	4 48	1 10	10 25	2 32	11 41	0 48	16 44	1 44	7 12	13 23	17 56	18 1	11 18	13 2	1 20			
S 5	16 3	19 53	3 31	19 58	1 59	12 38	1 30	11 48	0 35	4 52	1 10	10 25	2 33	11 42	0 48	16 44	1 44	7 12	13 22	17 56	18 2	11 16	13 3	1 20			
M 6	15 45	20 27	2 26	19 33	2 1	12 11	1 30	12 2	0 36	4 56	1 9	10 25	2 33	11 43	0 48	16 44	1 44	7 13	13 22	17 55	18 3	11 14	13 3	1 20			
T 7	15 26	19 41	1 10	19 7	2 3	11 44	1 30	12 17	0 36	5 0	1 9	10 25	2 33	11 44	0 48	16 44	1 44	7 13	13 22	17 55	18 3	11 13	13 4	1 20			
W 8	15 7	17 31	0s12	18 39	2 4	11 16	1 30	12 31	0 37	5 5	1 9	10 25	2 34	11 45	0 48	16 45	1 44	7 13	13 22	17 55	18 4	11 11	13 4	1 20			
T 9	14 48	14 7	1 35	18 10	2 5	10 48	1 30	12 45	0 38	5 9	1 9	10 24	2 34	11 46	0 48	16 45	1 44	7 13	13 21	17 55	18 5	11 9	13 4	1 20			
F 10	14 29	9 45	2 51	17 40	2 5	10 20	1 30	13 0	0 39	5 14	1 9	10 24	2 34	11 47	0 48	16 45	1 45	7 14	13 21	17 56	18 6	11 7	13 5	1 20			
S 11	14 10	4 50	3 55	17 8	2 5	9 52	1 29	13 14	0 39	5 18	1 8	10 24	2 34	11 48	0 48	16 45	1 45	7 14	13 21	17 56	18 7	11 6	13 5	1 20			
S 12	13 50	0n18	4 41	16 34	2 5	9 24	1 29	13 28	0 40	5 23	1 8	10 24	2 35	11 49	0 48	16 45	1 45	7 14	13 20	17 56	18 7	11 4	13 6	1 20			
M13	13 30	5 17	5 9	15 59	2 4	8 55	1 28	13 42	0 41	5 27	1 8	10 24	2 35	11 50	0 48	16 45	1 45	7 15	13 20	17 57	18 8	11 2	13 6	1 20			
T 14	13 10	9 49	5 17	15 23	2 3	8 26	1 28	13 55	0 42	5 32	1 8	10 23	2 35	11 51	0 48	16 45	1 45	7 15	13 20	17 57	18 9	11 0	13 7	1 20			
W15	12 49	13 44	5 7	14 45	2 1	7 56	1 27	14 9	0 42	5 36	1 8	10 23	2 35	11 52	0 48	16 45	1 45	7 15	13 19	17 57	18 10	10 58	13 7	1 20			
T 16	12 29	16 50	4 41	14 6	1 59	7 27	1 26	14 23	0 43	5 41	1 8	10 22	2 36	11 52	0 48	16 45	1 45	7 16	13 19	17 57	18 11	10 57	13 8	1 20			
F 17	12 8	19 1	4 1	13 26	1 56	6 57	1 25	14 36	0 44	5 46	1 7	10 22	2 36	11 53	0 48	16 45	1 45	7 16	13 19	17 57	18 12	10 55	13 8	1 20			
S 18	11 47	20 13	3 11	12 44	1 53	6 27	1 25	14 50	0 44	5 50	1 7	10 22	2 36	11 54	0 48	16 45	1 45	7 16	13 18	17 57	18 12	10 53	13 9	1 20			
S 19	11 26	20 26	2 13	12 1	1 49	5 57	1 24	15 3	0 45	5 55	1 7	10 21	2 36	11 55	0 48	16 45	1 45	7 17	13 18	17 56	18 13	10 51	13 9	1 20			
M20	11 4	19 41	1 10	11 16	1 45	5 27	1 23	15 16	0 46	6 0	1 7	10 21	2 37	11 56	0 48	16 45	1 45	7 17	13 18	17 56	18 14	10 49	13 10	1 20			
T 21	10 43	18 4	0 4	10 31	1 40	4 57	1 22	15 29	0 46	6 5	1 7	10 20	2 37	11 57	0 48	16 45	1 45	7 17	13 17	17 56	18 15	10 48	13 11	1 20			
W22	10 21	15 39	1n 1	9 44	1 35	4 26	1 21	15 42	0 47	6 9	1 7	10 20	2 37	11 58	0 48	16 45	1 45	7 18	13 17	17 56	18 16	10 46	13 11	1 20			
T 23	9 59	12 36	2 3	8 56	1 29	3 56	1 19	15 55	0 48	6 14	1 6	10 19	2 37	11 59	0 48	16 45	1 45	7 18	13 17	17 56	18 17	10 44	13 12	1 20			
F 24	9 37	9 3	3 0	8 7	1 22	3 25	1 18	16 8	0 48	6 19	1 6	10 18	2 38	12 0	0 48	16 45	1 45	7 18	13 17	17 57	18 17	10 42	13 13	1 20			
S 25	9 15	5 9	3 49	7 17	1 14	2 54	1 17	16 20	0 49	6 24	1 6	10 18	2 38	12 1	0 48	16 44	1 45	7 19	13 16	17 58	18 18	10 40	13 13	1 20			
S 26	8 53	1 2	4 28	6 26	1 7	2 23	1 15	16 33	0 50	6 29	1 6	10 17	2 38	12 2	0 48	16 44	1 45	7 19	13 16	18 0	18 19	10 39	13 14	1 20			
M27	8 30	3s 9	4 56	5 34	0 58	1 52	1 14	16 45	0 50	6 34	1 6	10 16	2 38	12 3	0 48	16 44	1 45	7 19	13 16	18 1	18 20	10 37	13 15	1 20			
T 28	8s 8	7s15	5n10	4s42	0s49	1s21	1s12	16n57	0n51	6n39	1s 6	10s15	2n39	12n 4	0n48	16s44	1n46	7n20	13s15	18n 2	18n21	10n35	13n15	1s20			

ASTRODIENST EPHEMERIS for the year 2130

geocentric

MARCH 2130

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	10 34 30	10 ¹⁰ 12	14 ¹⁰ 9	21 ¹⁰ 52	0 ¹⁰ 37	15 ¹⁰ 3	19 ¹⁰ 48	3 ¹⁰ R41	0 ¹⁰ R22	22 ¹⁰ R43	0 ¹⁰ II52	8 ¹⁰ R46	7 ¹⁰ Ω36	9 ¹⁰ ♂24	9 ¹⁰ ♂10	W 1
T 2	10 38 27	11 ¹⁰ 10'29	26 ¹⁰ 40	23 ¹⁰ 41	1 ¹⁰ 51	15 ¹⁰ 43	20 ¹⁰ 0	3 ¹⁰ ℳ39	0 ¹⁰ ♂20	22 ¹⁰ ℳ43	0 ¹⁰ 52	8 ¹⁰ Ω43	7 ¹⁰ 33	9 ¹⁰ 31	9 ¹⁰ 13	T 2
F 3	10 42 23	12 ¹⁰ 10'44	9 ¹⁰ ♂30	25 ¹⁰ 30	3 ¹⁰ 6	16 ¹⁰ 22	20 ¹⁰ 13	3 ¹⁰ 37	0 ¹⁰ 17	22 ¹⁰ 43	0 ¹⁰ 53	8 ¹⁰ D42	7 ¹⁰ 29	9 ¹⁰ 38	9 ¹⁰ 15	F 3
S 4	10 46 20	13 ¹⁰ 10'58	22 ¹⁰ 40	27 ¹⁰ 16	4 ¹⁰ 20	17 ¹⁰ 1	20 ¹⁰ 26	3 ¹⁰ 35	0 ¹⁰ 15	22 ¹⁰ 43	0 ¹⁰ 53	8 ¹⁰ 43	7 ¹⁰ 26	9 ¹⁰ 44	9 ¹⁰ 18	S 4
S 5	10 50 16	14 ¹⁰ 11'11	6 ¹⁰ ♂14	29 ¹⁰ 0	5 ¹⁰ 34	17 ¹⁰ 40	20 ¹⁰ 39	3 ¹⁰ 33	0 ¹⁰ 12	22 ¹⁰ 42	0 ¹⁰ 54	8 ¹⁰ 44	7 ¹⁰ 23	9 ¹⁰ 51	9 ¹⁰ 20	S 5
M 6	10 54 13	15 ¹⁰ 11'22	20 ¹⁰ 15	0 ¹⁰ Y41	6 ¹⁰ 49	18 ¹⁰ 19	20 ¹⁰ 52	3 ¹⁰ 31	0 ¹⁰ 10	22 ¹⁰ 42	0 ¹⁰ 54	8 ¹⁰ 45	7 ¹⁰ 20	9 ¹⁰ 58	9 ¹⁰ 23	M 6
T 7	10 58 10	16 ¹⁰ 11'31	4 ¹⁰ ♂41	2 ¹⁰ 19	8 ¹⁰ 3	18 ¹⁰ 58	21 ¹⁰ 5	3 ¹⁰ 28	0 ¹⁰ 7	22 ¹⁰ 42	0 ¹⁰ 54	8 ¹⁰ R46	7 ¹⁰ 17	10 ¹⁰ 4	9 ¹⁰ 25	T 7
W 8	11 2 6	17 ¹⁰ 11'39	19 ¹⁰ 30	3 ¹⁰ 53	9 ¹⁰ 17	19 ¹⁰ 37	21 ¹⁰ 19	3 ¹⁰ 26	0 ¹⁰ 5	22 ¹⁰ 41	0 ¹⁰ 55	8 ¹⁰ 46	7 ¹⁰ 14	10 ¹⁰ 11	9 ¹⁰ 28	W 8
T 9	11 6 3	18 ¹⁰ 11'45	4 ¹⁰ ♂36	5 ¹⁰ 22	10 ¹⁰ 32	20 ¹⁰ 17	21 ¹⁰ 32	3 ¹⁰ 23	0 ¹⁰ 2	22 ¹⁰ 41	0 ¹⁰ 55	8 ¹⁰ 44	7 ¹⁰ 10	10 ¹⁰ 18	9 ¹⁰ 31	T 9
F 10	11 9 59	19 ¹⁰ 11'49	19 ¹⁰ 51	6 ¹⁰ 46	11 ¹⁰ 46	20 ¹⁰ 56	21 ¹⁰ 45	3 ¹⁰ 21	29 ¹⁰ Ω59	22 ¹⁰ 40	0 ¹⁰ 56	8 ¹⁰ 40	7 ¹⁰ 7	10 ¹⁰ 24	9 ¹⁰ 33	F 10
S 11	11 13 56	20 ¹⁰ 11'51	5 ¹⁰ Y 5	8 ¹⁰ 5	13 ¹⁰ 0	21 ¹⁰ 35	21 ¹⁰ 59	3 ¹⁰ 18	29 ¹⁰ 57	22 ¹⁰ 40	0 ¹⁰ 56	8 ¹⁰ 34	7 ¹⁰ 4	10 ¹⁰ 31	9 ¹⁰ 36	S 11
S 12	11 17 52	21 ¹⁰ 11'52	20 ¹⁰ 7	9 ¹⁰ 18	14 ¹⁰ 14	22 ¹⁰ 14	22 ¹⁰ 12	3 ¹⁰ 15	29 ¹⁰ 55	22 ¹⁰ 39	0 ¹⁰ 57	8 ¹⁰ 27	7 ¹⁰ 1	10 ¹⁰ 38	9 ¹⁰ 39	S 12
M13	11 21 49	22 ¹⁰ 11'50	4 ¹⁰ ♂48	10 ¹⁰ 24	15 ¹⁰ 28	22 ¹⁰ 53	22 ¹⁰ 26	3 ¹⁰ 13	29 ¹⁰ 52	22 ¹⁰ 38	0 ¹⁰ 58	8 ¹⁰ 21	6 ¹⁰ 58	10 ¹⁰ 44	9 ¹⁰ 42	M13
T 14	11 25 45	23 ¹⁰ 11'46	19 ¹⁰ 2	11 ¹⁰ 23	16 ¹⁰ 42	23 ¹⁰ 32	22 ¹⁰ 39	3 ¹⁰ 10	29 ¹⁰ 50	22 ¹⁰ 38	0 ¹⁰ 58	8 ¹⁰ 15	6 ¹⁰ 54	10 ¹⁰ 51	9 ¹⁰ 45	T 14
W15	11 29 42	24 ¹⁰ 11'40	2 ¹⁰ II47	12 ¹⁰ 14	17 ¹⁰ 56	24 ¹⁰ 11	22 ¹⁰ 53	3 ¹⁰ 7	29 ¹⁰ 48	22 ¹⁰ 37	0 ¹⁰ 59	8 ¹⁰ 11	6 ¹⁰ 51	10 ¹⁰ 58	9 ¹⁰ 48	W15
T 16	11 33 39	25 ¹⁰ 11'32	16 ¹⁰ 3	12 ¹⁰ 58	19 ¹⁰ 10	24 ¹⁰ 50	23 ¹⁰ 6	3 ¹⁰ 4	29 ¹⁰ 45	22 ¹⁰ 37	0 ¹⁰ 59	8 ¹⁰ 9	6 ¹⁰ 48	11 ¹⁰ 4	9 ¹⁰ 51	T 16
F 17	11 37 35	26 ¹⁰ 11'22	28 ¹⁰ 53	13 ¹⁰ 33	20 ¹⁰ 24	25 ¹⁰ 29	23 ¹⁰ 20	3 ¹⁰ 1	29 ¹⁰ 43	22 ¹⁰ 36	1 ¹⁰ 0	8 ¹⁰ D 8	6 ¹⁰ 45	11 ¹⁰ 11	9 ¹⁰ 54	F 17
S 18	11 41 32	27 ¹⁰ 11'10	11 ¹⁰ ♂21	14 ¹⁰ 0	21 ¹⁰ 38	26 ¹⁰ 8	23 ¹⁰ 34	2 ¹⁰ 57	29 ¹⁰ 41	22 ¹⁰ 35	1 ¹⁰ 1	8 ¹⁰ 9	6 ¹⁰ 42	11 ¹⁰ 18	9 ¹⁰ 57	S 18
S 19	11 45 28	28 ¹⁰ 10'55	23 ¹⁰ 32	14 ¹⁰ 19	22 ¹⁰ 52	26 ¹⁰ 47	23 ¹⁰ 47	2 ¹⁰ 54	29 ¹⁰ 39	22 ¹⁰ 34	1 ¹⁰ 1	8 ¹⁰ 10	6 ¹⁰ 39	11 ¹⁰ 24	10 ¹⁰ 0	S 19
M20	11 49 25	29 ¹⁰ 10'38	5 ¹⁰ Ω31	14 ¹⁰ 29	24 ¹⁰ 5	27 ¹⁰ 26	24 ¹⁰ 1	2 ¹⁰ 51	29 ¹⁰ 36	22 ¹⁰ 34	1 ¹⁰ 2	8 ¹⁰ R11	6 ¹⁰ 35	11 ¹⁰ 31	10 ¹⁰ 3	M20
T 21	11 53 21	0 ¹⁰ Y10'19	17 ¹⁰ 22	14 ¹⁰ R31	25 ¹⁰ 19	28 ¹⁰ 5	24 ¹⁰ 15	2 ¹⁰ 47	29 ¹⁰ 34	22 ¹⁰ 33	1 ¹⁰ 3	8 ¹⁰ 11	6 ¹⁰ 32	11 ¹⁰ 38	10 ¹⁰ 6	T 21
W22	11 57 18	1 ¹⁰ 9'57	29 ¹⁰ 10	14 ¹⁰ 25	26 ¹⁰ 33	28 ¹⁰ 44	24 ¹⁰ 29	2 ¹⁰ 44	29 ¹⁰ 32	22 ¹⁰ 32	1 ¹⁰ 4	8 ¹⁰ 8	6 ¹⁰ 29	11 ¹⁰ 44	10 ¹⁰ 9	W22
T 23	12 1 14	2 ¹⁰ 9'34	10 ¹⁰ ♂58	14 ¹⁰ 10	27 ¹⁰ 46	29 ¹⁰ 23	24 ¹⁰ 43	2 ¹⁰ 40	29 ¹⁰ 30	22 ¹⁰ 31	1 ¹⁰ 4	8 ¹⁰ 3	6 ¹⁰ 26	11 ¹⁰ 51	10 ¹⁰ 13	T 23
F 24	12 5 11	3 ¹⁰ 9'08	22 ¹⁰ 48	13 ¹⁰ 49	29 ¹⁰ 0	0 ¹⁰ II 2	24 ¹⁰ 57	2 ¹⁰ 36	29 ¹⁰ 28	22 ¹⁰ 30	1 ¹⁰ 5	7 ¹⁰ 56	6 ¹⁰ 23	11 ¹⁰ 58	10 ¹⁰ 16	F 24
S 25	12 9 8	4 ¹⁰ 8'40	4 ¹⁰ ♂44	13 ¹⁰ 21	0 ¹⁰ ♂14	0 ¹⁰ 41	25 ¹⁰ 11	2 ¹⁰ 33	29 ¹⁰ 26	22 ¹⁰ 29	1 ¹⁰ 6	7 ¹⁰ 47	6 ¹⁰ 19	12 ¹⁰ 4	10 ¹⁰ 19	S 25
S 26	12 13 4	5 ¹⁰ 8'11	16 ¹⁰ 45	12 ¹⁰ 46	1 ¹⁰ 27	1 ¹⁰ 20	25 ¹⁰ 25	2 ¹⁰ 29	29 ¹⁰ 24	22 ¹⁰ 28	1 ¹⁰ 7	7 ¹⁰ 36	6 ¹⁰ 16	12 ¹⁰ 11	10 ¹⁰ 23	S 26
M27	12 17 1	6 ¹⁰ 7'39	28 ¹⁰ 54	12 ¹⁰ 6	2 ¹⁰ 41	1 ¹⁰ 59	25 ¹⁰ 39	2 ¹⁰ 25	29 ¹⁰ 22	22 ¹⁰ 27	1 ¹⁰ 8	7 ¹⁰ 25	6 ¹⁰ 13	12 ¹⁰ 18	10 ¹⁰ 26	M27
T 28	12 20 57	7 ¹⁰ 7'05	11 ¹⁰ ℳ12	11 ¹⁰ 22	3 ¹⁰ 54	2 ¹⁰ 38	25 ¹⁰ 53	2 ¹⁰ 21	29 ¹⁰ 20	22 ¹⁰ 26	1 ¹⁰ 8	7 ¹⁰ 14	6 ¹⁰ 10	12 ¹⁰ 25	10 ¹⁰ 29	T 28
W29	12 24 54	8 ¹⁰ 6'30	23 ¹⁰ 39	10 ¹⁰ 34	5 ¹⁰ 7	3 ¹⁰ 17	26 ¹⁰ 7	2 ¹⁰ 17	29 ¹⁰ 18	22 ¹⁰ 25	1 ¹⁰ 9	7 ¹⁰ 5	6 ¹⁰ 7	12 ¹⁰ 31	10 ¹⁰ 33	W29
T 30	12 28 50	9 ¹⁰ 5'53	6 ¹⁰ ♂18	9 ¹⁰ 44	6 ¹⁰ 21	3 ¹⁰ 56	26 ¹⁰ 21	2 ¹⁰ 13	29 ¹⁰ 16	22 ¹⁰ 24	1 ¹⁰ 10	6 ¹⁰ 58	6 ¹⁰ 4	12 ¹⁰ 38	10 ¹⁰ 36	T 30
F 31	12 32 47	10 ¹⁰ Y 5'14	19 ¹⁰ ♂11	8 ¹⁰ Y53	7 ¹⁰ ♂34	4 ¹⁰ II35	26 ¹⁰ Y35	2 ¹⁰ ℳ 9	29 ¹⁰ Ω14	22 ¹⁰ ℳ23	1 ¹⁰ II11	6 ¹⁰ Ω53	6 ¹⁰ Ω 0	12 ¹⁰ ♂45	10 ¹⁰ ♂40	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	7s45	11s 7	5n11	3s49	0s39	0s50	1s11	17n 9	0n51	6n43	1s 5	10s15	2n39	12n 5	0n48	16s44
T 2	7 22	14 34	4 58	2 56	0 28	0 19	1 9	17 21	0 52	6 48	1 5	10 14	2 39	12 5	0 48	16 44
F 3	6 59	17 25	4 29	2 3	0 17	0n12	1 8	17 33	0 52	6 53	1 5	10 13	2 39	12 6	0 48	16 44
S 4	6 36	19 28	3 45	1 10	0 6	0 43	1 6	17 45	0 53	6 58	1 5	10 12	2 39	12 7	0 48	16 44
S 5	6 13	20 28	2 48	0 18	0n 6	1 14	1 4	17 57	0 53	7 3	1 5	10 11	2 40	12 8	0 48	16 44
M 6	5 50	20 15	1 39	0n34	0 19	1 45	1 2	18 8	0 54	7 8	1 5	10 10	2 40	12 9	0 48	16 43
T 7	5 27	18 43	0 22	1 25	0 32	2 16	1 0	18 19	0 54	7 13	1 5	10 9	2 40	12 10	0 48	16 43
W 8	5 3	15 53	0s58	2 14	0 45	2 47	0 58	18 30	0 55	7 19	1 5	10 8	2 40	12 11	0 48	16 43
T 9	4 40	11 55	2 16	3 2	0 59	3 18	0 56	18 41	0 55	7 24	1 4	10 7	2 41	12 12	0 48	16 43
F 10	4 16	7 9	3 25	3 48	1 12	3 49	0 54	18 52	0 56	7 29	1 4	10 6	2 41	12 12	0 48	16 43
S 11	3 53	1 56	4 19	4 19	1 26	4 20	0 52	19 3	0 56	7 34	1 4	10 5	2 41	12 13	0 48	16 43
S 12	3 29	3n19	4 54	5 13	1 40	4 50	0 50	19 14	0 57	7 39	1 4	10 4	2 41	12 14	0 48	16 42
M13	3 6	8 15	5 9	5 51	1 53	5 21	0 48	19 24	0 57	7 44	1 4	10 3	2 41	12 15	0 48	16 42
T 14	2 42	12 35	5 4	6 26	2 6	5 52	0 45	19 34	0 58	7 49	1 4	10 2	2 42	12 16	0 48	16 42
W15	2 18	16 6	4 42	6 58	2 19	6 22	0 43	19 45	0 58	7 54	1 4	10 0	2 42	12 17	0 48	16 42
T 16	1 55	18 38	4 5	7 26	2 31	6 52	0 41	19 55	0 59	7 59	1 4	9 59	2 42	12 17	0 47	16 42
F 17	1 31	20 9	3 16	7 50	2 42	7 22	0 38	20 4	0 59	8 5	1 3	9 58	2 42	12 18	0 47	16 41
S 18	1 7	20 37	2 20	8 10	2 52	7 52	0 36	20 14	0 59	8 10	1 3	9 57	2 42	12 19	0 47	16 41
S 19	0 43	20 5	1 18	8 26	3 2	8 22	0 33	20 24	1 0	8 15	1 3	9 55	2 42	12 20	0 47	16 41
M20	0 20	18 39	0 14	8 37	3 10	8 51	0 31	20 33	1 0	8 20	1 3	9 54	2 43	12 20	0 47	16 41
T 21	0n 4	16 24	0n49	8 45	3 17	9 21	0 28	20 42	1 1	8 25	1 3	9 53	2 43	12 21	0 47	16 40
W22	0 28	13 29	1 51	8 47	3 22	9 50	0 26	20 51	1 1	8 30	1 3	9 51	2 43	12 22	0 47	16 40

ASTRODIENST EPHEMERIS for the year 2130

geocentric

APRIL 2130

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 36 43	11°43'33"	2°20'20"	8°R 2	8°47'	5°11'14"	26°49'	2°R 5	29°R13	22°R22	1°11'12"	6°R51	5°52'57"	12°51'51"	10°48'43"	S 1
S 2	12 40 40	12° 3'51"	15°47'	7°11'	10° 0'	5°53'	27° 4'	2°11'1	29°11'	22°11'21"	1°13'	6°D51	5°54'	12°58'	10°47'	S 2
M 3	12 44 36	13° 3'07"	29°36'	6°22'	11°13'	6°31'	27°18'	1°57'	29° 9'	22°20'	1°14'	6°R51	5°51'	13° 5'	10°50'	M 3
T 4	12 48 33	14° 2'21"	13°46'	5°36'	12°26'	7°10'	27°32'	1°53'	29° 8'	22°19'	1°15'	6°151	5°48'	13°11'	10°54'	T 4
W 5	12 52 30	15° 1'33"	28°18'	4°53'	13°39'	7°49'	27°46'	1°48'	29° 6'	22°17'	1°16'	6°50'	5°45'	13°18'	10°57'	W 5
T 6	12 56 26	16° 0'44"	13°18'7"	4°14'	14°52'	8°28'	28° 1'	1°44'	29° 5'	22°16'	1°17'	6°45'	5°41'	13°25'	11° 1'	T 6
F 7	13 0 23	16°59'52"	28° 9'	3°40'	16° 5'	9° 7'	28°15'	1°40'	29° 3'	22°15'	1°18'	6°39'	5°38'	13°31'	11° 5'	F 7
S 8	13 4 19	17°58'59"	13°14'	3°10'	17°18'	9°46'	28°29'	1°35'	29° 2'	22°14'	1°19'	6°29'	5°35'	13°38'	11° 8'	S 8
S 9	13 8 16	18°58'03"	28°13'	2°46'	18°31'	10°24'	28°44'	1°31'	29° 0'	22°12'	1°20'	6°19'	5°32'	13°45'	11°12'	S 9
M10	13 12 12	19°57'06"	12°55'	2°27'	19°44'	11° 3'	28°58'	1°26'	28°59'	22°11'	1°21'	6° 8'	5°29'	13°51'	11°16'	M10
T 11	13 16 9	20°56'07"	27°14'	2°13'	20°56'	11°42'	29°13'	1°22'	28°57'	22°10'	1°22'	5°58'	5°25'	13°58'	11°19'	T 11
W12	13 20 5	21°55'05"	11°11'6"	2° 5'	22° 9'	12°21'	29°27'	1°17'	28°56'	22° 8'	1°23'	5°50'	5°22'	14° 5'	11°23'	W12
T 13	13 24 2	22°54'01"	24°28'	2°D 2	23°21'	12°59'	29°41'	1°13'	28°55'	22° 7'	1°24'	5°45'	5°19'	14°11'	11°27'	T 13
F 14	13 27 59	23°52'55"	7°52'22"	2° 5'	24°34'	13°38'	29°56'	1° 8'	28°54'	22° 6'	1°25'	5°42'	5°16'	14°18'	11°31'	F 14
S 15	13 31 55	24°51'47"	19°53'	2°13'	25°46'	14°17'	0°10'10"	1° 4'	28°53'	22° 4'	1°26'	5°41'	5°13'	14°25'	11°34'	S 15
S 16	13 35 52	25°50'36"	2°5'	2°26'	26°59'	14°55'	0°25'	0°59'	28°51'	22° 3'	1°27'	5°41'	5°10'	14°31'	11°38'	S 16
M17	13 39 48	26°49'23"	14° 4'	2°44'	28°11'	15°34'	0°39'	0°55'	28°50'	22° 1'	1°29'	5°41'	5° 6'	14°38'	11°42'	M17
T 18	13 43 45	27°48'08"	25°55'	3° 6'	29°23'	16°13'	0°54'	0°50'	28°49'	22° 0'	1°30'	5°39'	5° 3'	14°45'	11°46'	T 18
W19	13 47 41	28°46'51"	7°11'43"	3°33'	0°11'36"	16°51'	1° 8'	0°46'	28°49'	21°59'	1°31'	5°36'	5° 0'	14°51'	11°50'	W19
T 20	13 51 38	29°45'31"	19°32'	4° 4'	1°48'	17°30'	1°22'	0°41'	28°48'	21°57'	1°32'	5°30'	4°57'	14°58'	11°53'	T 20
F 21	13 55 34	0°44'09"	1°26'41"	4°40'	3° 0'	18° 9'	1°37'	0°36'	28°47'	21°56'	1°33'	5°20'	4°54'	15° 5'	11°57'	F 21
S 22	13 59 31	1°42'46"	13°28'	5°19'	4°12'	18°47'	1°51'	0°32'	28°46'	21°54'	1°34'	5° 9'	4°50'	15°11'	12° 1'	S 22
S 23	14 3 28	2°41'20"	25°39'	6° 2'	5°24'	19°26'	2° 6'	0°27'	28°45'	21°53'	1°36'	4°56'	4°47'	15°18'	12° 5'	S 23
M24	14 7 24	3°39'52"	8°11'1	6°48'	6°35'	20° 4'	2°20'	0°23'	28°45'	21°51'	1°37'	4°42'	4°44'	15°25'	12° 9'	M24
T 25	14 11 21	4°38'23"	20°34'	7°38'	7°47'	20°43'	2°35'	0°18'	28°44'	21°50'	1°38'	4°29'	4°41'	15°31'	12°13'	T 25
W26	14 15 17	5°36'51"	3°18'8"	8°32'	8°59'	21°22'	2°49'	0°13'	28°43'	21°48'	1°39'	4°17'	4°38'	15°38'	12°17'	W26
T 27	14 19 14	6°35'18"	16°13'	9°28'	10°11'	22° 0'	3° 3'	0° 9'	28°43'	21°46'	1°40'	4° 8'	4°35'	15°45'	12°21'	T 27
F 28	14 23 10	7°33'44"	29°19'	10°27'	11°22'	22°39'	3°18'	0° 4'	28°42'	21°45'	1°42'	4° 2'	4°31'	15°51'	12°24'	F 28
S 29	14 27 7	8°32'07"	12°33'7"	11°29'	12°34'	23°17'	3°32'	29°59'	28°42'	21°43'	1°43'	3°59'	4°28'	15°58'	12°28'	S 29
S 30	14 31 3	9°30'30"	26°3'9"	12°13'34"	13°11'45"	23°11'56"	3°47'	29°55'	28°42'	21°42'	1°44'	3°58'	4°25'	16°11'5"	12°32'	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	4n23	20s31	2n53	5n40	2n43	14n27	0n 2	22n13	1n 4	9n22	1 s 2	9s37	2n44	12n29	0n47	16s37	1n47	7n32	13 s 6	18n33	18n46	9n35	13n44	1 s21			
S 2	4 46	20 40	1 50	5 9	2 30	14 53	0 5	22 20	1 5	9 27	1 2	9 36	2 44	12 29	0 47	16 37	1 47	7 33	13 6	18 33	18 47	9 33	13 46	1 21			
M 3	5 9	19 35	0 39	4 37	2 16	15 18	0 8	22 27	1 5	9 33	1 2	9 34	2 44	12 30	0 47	16 37	1 47	7 33	13 6	18 33	18 48	9 31	13 47	1 21			
T 4	5 32	17 16	0s37	4 5	2 2	15 44	0 11	22 34	1 5	9 38	1 2	9 33	2 45	12 30	0 47	16 36	1 47	7 33	13 6	18 33	18 49	9 29	13 48	1 21			
W 5	5 55	13 48	1 51	3 34	1 46	16 8	0 14	22 41	1 6	9 43	1 2	9 31	2 45	12 31	0 47	16 36	1 47	7 34	13 5	18 33	18 49	9 28	13 49	1 21			
T 6	6 18	9 24	3 0	3 4	1 31	16 33	0 17	22 47	1 6	9 48	1 2	9 29	2 45	12 31	0 47	16 36	1 47	7 34	13 5	18 34	18 50	9 26	13 50	1 21			
F 7	6 40	4 22	3 57	2 36	1 14	16 57	0 19	22 53	1 6	9 53	1 2	9 28	2 45	12 32	0 47	16 35	1 47	7 35	13 5	18 36	18 51	9 24	13 51	1 21			
S 8	7 3	0n57	4 38	2 9	0 58	17 21	0 22	22 59	1 6	9 58	1 1	9 26	2 45	12 32	0 47	16 35	1 47	7 35	13 5	18 38	18 52	9 22	13 52	1 22			
S 9	7 25	6 10	4 59	1 44	0 42	17 44	0 25	23 5	1 7	10 3	1 1	9 25	2 45	12 33	0 47	16 35	1 47	7 35	13 5	18 41	18 52	9 20	13 53	1 22			
M10	7 48	10 56	5 0	1 22	0 26	18 7	0 28	23 11	1 7	10 9	1 1	9 23	2 45	12 33	0 47	16 34	1 47	7 36	13 4	18 44	18 53	9 18	13 54	1 22			
T 11	8 10	14 57	4 42	1 3	0 10	18 29	0 31	23 17	1 7	10 14	1 1	9 22	2 45	12 34	0 47	16 34	1 48	7 36	13 4	18 46	18 54	9 16	13 55	1 22			
W12	8 32	18 0	4 7	0 45	0s 5	18 51	0 34	23 22	1 7	10 19	1 1	9 20	2 45	12 34	0 47	16 33	1 48	7 37	13 4	18 48	18 55	9 14	13 56	1 22			
T 13	8 54	19 58	3 20	0 31	0 20	19 12	0 37	23 28	1 8	10 24	1 1	9 18	2 45	12 34	0 47	16 33	1 48	7 37	13 4	18 49	18 55	9 12	13 57	1 22			
F 14	9 16	20 49	2 24	0 19	0 34	19 33	0 40	23 33	1 8	10 29	1 1	9 17	2 45	12 35	0 47	16 33	1 48	7 37	13 4	18 50	18 56	9 10	13 59	1 22			
S 15	9 37	20 35	1 23	0 9	0 47	19 53	0 43	23 37	1 8	10 34	1 1	9 15	2 45	12 35	0 47	16 32	1 48	7 38	13 3	18 50	18 57	9 8	14 0	1 22			
S 16	9 59	19 22	0 19	0 2	1 0	20 13	0 46	23 42	1 8	10 39	1 1	9 14	2 45	12 36	0 47	16 32	1 48	7 38	13 3	18 50	18 58	9 6	14 1	1 22			
M17	10 20	17 18	0n44	0s 2	1 13	20 32	0 49	23 47	1 9	10 44	1 1	9 12	2 45	12 36	0 47	16 31	1 48	7 39	13 3	18 50	18 59	9 4	14 2	1 22			
T 18	10 41	14 31	1 45	0 4	1 24	20 51	0 52	23 51	1 9	10 49	1 1	9 10	2 45	12 36	0 47	16 31	1 48	7 39	13 3	18 51	18 59	9 2	14 3	1 22			
W19	11 2	11 9	2 41	0 3	1 35	21 9	0 55	23 55	1 9	10 54	1 1	9 9	2 45	12 36	0 47	16 31	1 48	7 39	13 3	18 51	19 0	9 0	14 4	1 22			
T 20	11 23	7 21	3 30	0n 0	1 46	21 27	0 58	23 59	1 9	10 59	1 1	9 7	2 45	12 37	0 47	16 30	1 48	7 40	13 2	18 53	19 1	8 58	14 5	1 22			
F 21	11 43	3 15	4 10	0 5	1 55	21 44	1 1	24 3	1 9	11 5	1 1	9 6	2 45	12 37	0 47	16 30	1 48	7 40	13 2	18 55	19 2	8 56	14 6	1 22			
S 22	12 4	1 s 1	4 39	0 13	2 4	22 1	1 4	24 6	1 10	11 10	1 1	9 4	2 45	12 37	0 46	16 30	1 48	7 41	13 2	18 58	19 2	8 54	14 7	1 22			
S 23	12 24	5 19	4 56	0 22	2 12	22 17	1 6	24 10	1 10	11 15	1 1	9 2	2 45	12 37	0 46	16 29	1 48	7 41	13 2	19 1	19 3	8 52	14 9	1 22			
M24	12 44	9 27	4 59	0 34	2 19	22 32	1 9	24 13	1 10	11 20	1 1	9 1	2 45	12 38	0 46	16 29	1 48	7 41	13 2	19 4	19 4	8 50	14 10	1 22			
T 25	13 3	13 14	4 48	0 47	2 26	22 47	1 12	24 16	1 10	11 24	1 1	8 59	2 45	12 38	0 46	16 28	1 48	7 42	13 2	19 8	19 5	8 49	14 11	1 22			
W26	13 23	16 30	4 23	1 3	2 32	23 1	1 15	24 19	1 10	11 29	1 1	8 58	2 45	12 38	0 46	16 28	1 48	7 42	13 1	19 10	19 5	8 47	14 12	1 23			
T 27	13 42	19 0	3 44	1 20	2 38	23 14	1 18	24 21	1 10	11 34	1 1	8 56	2 45	12 38	0 46	16 27	1 48	7 43	13 1	19 12	19 6	8 45	14 13	1 23			
F 28	14 1	20 33	2 52	1 39	2 42	23 27	1 20	24 24	1 11	11 39	1 1	8 55	2 45	12 38	0 46	16 27	1 48	7 43	13 1	19 14	19 7	8 43	14 14	1 23			
S 29	14 20	21 0	1 50	1 59	2 46	23 39	1 23	24 26	1 11	11 44	1 1	8 53	2 45	12 38	0 46	16 27	1 48	7 43	13 1	19 15	19 8	8 41	14 15	1 23			
S 30	14n39	20s14	0n41	2n22	2s49	23n51	1n25	24n28	1n11	11n49	1 s 1	8s52	2n45	12n38	0n46	16s26	1n48	7n44	13 s 1	19n15	19n 8	8n39	14n16	1s23			

ASTRODIENST EPHEMERIS for the year 2130
geocentric

MAY 2130

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	14 35 0	10♌28'50	9♊55	13♋42	14♌56	24♌34	4♌1	29°R51	28°R41	21°R40	1♌46	3°R58	4♌22	16♌11	12♌36	M 1
T 2	14 38 57	11°27'09	23°56	14°52	16° 8	25°13	4°15	29♌46	28♌41	21♌39	1°47	3♌58	4°19	16°18	12°40	T 2
W 3	14 42 53	12°25'27	8♋12	16° 4	17°19	25°51	4°30	29°42	28°41	21°37	1°48	3°56	4°16	16°25	12°44	W 3
T 4	14 46 50	13°23'43	22°42	17°19	18°30	26°29	4°44	29°38	28°41	21°35	1°49	3°52	4°12	16°32	12°48	T 4
F 5	14 50 46	14°21'58	7♋21	18°37	19°41	27° 8	4°58	29°33	28°41	21°34	1°51	3°45	4° 9	16°38	12°52	F 5
S 6	14 54 43	15°20'11	22° 4	19°56	20°52	27°46	5°13	29°29	28°D41	21°32	1°52	3°35	4° 6	16°45	12°56	S 6
S 7	14 58 39	16°18'22	6♋43	21°18	22° 3	28°25	5°27	29°24	28°41	21°30	1°53	3°25	4° 3	16°52	13° 0	S 7
M 8	15 2 36	17°16'32	21°10	22°42	23°14	29° 3	5°41	29°20	28°41	21°29	1°55	3°13	4° 0	16°58	13° 4	M 8
T 9	15 6 32	18°14'40	5♌20	24° 8	24°24	29°42	5°56	29°16	28°41	21°27	1°56	3° 3	3°56	17° 5	13° 8	T 9
W10	15 10 29	19°12'47	19° 6	25°36	25°35	0♌20	6°10	29°12	28°41	21°26	1°57	2°54	3°53	17°12	13°11	W10
T 11	15 14 26	20°10'51	2♌27	27° 6	26°46	0°58	6°24	29° 8	28°41	21°24	1°59	2°49	3°50	17°18	13°15	T 11
F 12	15 18 22	21° 8'54	15°22	28°39	27°56	1°37	6°38	29° 4	28°41	21°22	2° 0	2°45	3°47	17°25	13°19	F 12
S 13	15 22 19	22° 6'55	27°56	0♌13	29° 6	2°15	6°52	28°59	28°42	21°21	2° 1	2°D44	3°44	17°32	13°23	S 13
S 14	15 26 15	23° 4'55	10♌10	1°50	0♌17	2°53	7° 7	28°55	28°42	21°19	2° 3	2°44	3°41	17°38	13°27	S 14
M15	15 30 12	24° 2'52	22°11	3°28	1°27	3°32	7°21	28°52	28°43	21°17	2° 4	2°R44	3°37	17°45	13°31	M15
T 16	15 34 8	25° 0'48	4♌4	5° 8	2°37	4°10	7°35	28°48	28°43	21°16	2° 5	2°44	3°34	17°52	13°35	T 16
W17	15 38 5	25°58'41	15°54	6°51	3°47	4°48	7°49	28°44	28°44	21°14	2° 7	2°42	3°31	17°58	13°39	W17
T 18	15 42 1	26°56'33	27°45	8°35	4°57	5°26	8° 3	28°40	28°44	21°13	2° 8	2°38	3°28	18° 5	13°43	T 18
F 19	15 45 58	27°54'23	9♌43	10°22	6° 7	6° 5	8°17	28°36	28°45	21°11	2° 9	2°31	3°25	18°12	13°46	F 19
S 20	15 49 55	28°52'12	21°51	12°11	7°16	6°43	8°31	28°33	28°46	21° 9	2°11	2°22	3°22	18°18	13°50	S 20
S 21	15 53 51	29°49'59	4♌12	14° 1	8°26	7°21	8°45	28°29	28°46	21° 8	2°12	2°12	3°18	18°25	13°54	S 21
M22	15 57 48	0♌47'45	16°47	15°54	9°35	7°59	8°59	28°26	28°47	21° 6	2°13	2° 1	3°15	18°32	13°58	M22
T 23	16 1 44	1°45'29	29°36	17°49	10°45	8°38	9°12	28°22	28°48	21° 5	2°15	1°50	3°12	18°38	14° 2	T 23
W24	16 5 41	2°43'12	12♌39	19°45	11°54	9°16	9°26	28°19	28°49	21° 3	2°16	1°41	3° 9	18°45	14° 5	W24
T 25	16 9 37	3°40'53	25°56	21°44	13° 3	9°54	9°40	28°15	28°50	21° 1	2°17	1°34	3° 6	18°52	14° 9	T 25
F 26	16 13 34	4°38'34	9♌23	23°45	14°12	10°32	9°54	28°12	28°51	21° 0	2°19	1°30	3° 2	18°59	14°13	F 26
S 27	16 17 30	5°36'13	23° 1	25°47	15°21	11°10	10° 7	28° 9	28°52	20°58	2°20	1°28	2°59	19° 5	14°17	S 27
S 28	16 21 27	6°33'51	6♌49	27°51	16°30	11°48	10°21	28° 6	28°53	20°57	2°22	1°D28	2°56	19°12	14°20	S 28
M29	16 25 24	7°31'28	20°44	29°57	17°38	12°27	10°35	28° 3	28°54	20°55	2°23	1°29	2°53	19°19	14°24	M29
T 30	16 29 20	8°29'05	4♌47	2♌4	18°47	13° 5	10°48	28° 0	28°55	20°54	2°24	1°R29	2°50	19°25	14°28	T 30
W31	16 33 17	9♌26'40	18♌57	4♌13	19♌55	13♌43	11♌2	27♌57	28♌57	20♌52	2♌26	1♌29	2♌47	19♌32	14♌31	W31

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	decl	decl	decl	decl	lat	decl	decl	decl	lat
M 1	14n57	18s15	0s31	2n45	2s52	24n 2	1n28	24n30	1n11	11n54	1 s 0	8s50	2n45	12n39	0n46	16s26	1n48	7n44	13s 1	19n15	19n 9	8n37	14n17	1 s23									
T 2	15 15	15 10	1 44	3 10	2 54	24 12	1 31	24 31	1 11	11 59	1 0	8 49	2 45	12 39	0 46	16 25	1 48	7 44	13 1	19 15	19 10	8 35	14 19	1 23									
W 3	15 33	11 7	2 50	3 37	2 56	24 22	1 33	24 33	1 11	12 4	1 0	8 47	2 45	12 39	0 46	16 25	1 48	7 45	13 1	19 15	19 11	8 33	14 20	1 23									
T 4	15 51	6 23	3 47	4 5	2 56	24 31	1 35	24 34	1 11	12 8	1 0	8 46	2 45	12 39	0 46	16 25	1 48	7 45	13 0	19 16	19 11	8 31	14 21	1 23									
F 5	16 8	1 13	4 30	4 34	2 57	24 39	1 38	24 35	1 12	12 13	1 0	8 44	2 45	12 39	0 46	16 24	1 48	7 45	13 0	19 18	19 12	8 29	14 22	1 23									
S 6	16 25	4n 1	4 55	5 4	2 56	24 46	1 40	24 36	1 12	12 18	1 0	8 43	2 45	12 39	0 46	16 24	1 48	7 46	13 0	19 20	19 13	8 27	14 23	1 23									
S 7	16 42	9 1	5 1	5 35	2 55	24 53	1 43	24 37	1 12	12 23	1 0	8 41	2 44	12 39	0 46	16 23	1 48	7 46	13 0	19 23	19 14	8 25	14 24	1 23									
M 8	16 59	13 25	4 47	6 8	2 54	24 59	1 45	24 37	1 12	12 28	1 0	8 40	2 44	12 39	0 46	16 23	1 48	7 46	13 0	19 25	19 14	8 23	14 25	1 23									
T 9	17 15	16 59	4 15	6 42	2 52	25 5	1 47	24 37	1 12	12 32	1 0	8 39	2 44	12 38	0 46	16 22	1 48	7 47	13 0	19 28	19 15	8 21	14 26	1 24									
W10	17 31	19 30	3 30	7 16	2 49	25 10	1 49	24 37	1 12	12 37	1 0	8 37	2 44	12 38	0 46	16 22	1 48	7 47	13 0	19 30	19 16	8 19	14 27	1 24									
T 11	17 47	20 50	2 33	7 52	2 46	25 14	1 51	24 37	1 12	12 42	1 0	8 36	2 44	12 38	0 46	16 22	1 48	7 47	13 0	19 31	19 17	8 16	14 29	1 24									
F 12	18 2	21 2	1 31	8 28	2 42	25 17	1 53	24 37	1 12	12 46	1 0	8 35	2 44	12 38	0 46	16 21	1 48	7 48	13 0	19 32	19 17	8 14	14 30	1 24									
S 13	18 17	20 9	0 26	9 5	2 37	25 20	1 55	24 37	1 12	12 51	1 0	8 33	2 44	12 38	0 46	16 21	1 48	7 48	13 0	19 32	19 18	8 12	14 31	1 24									
S 14	18 32	18 19	0n40	9 43	2 32	25 22	1 57	24 36	1 13	12 55	1 0	8 32	2 44	12 38	0 46	16 20	1 48	7 48	12 59	19 32	19 19	8 10	14 32	1 24									
M15	18 46	15 42	1 42	10 21	2 27	25 24	1 59	24 35	1 13	13 0	1 0	8 31	2 44	12 38	0 46	16 20	1 48	7 49	12 59	19 32	19 20	8 8	14 33	1 24									
T 16	19 0	12 28	2 39	11 0	2 21	25 24	2 0	24 34	1 13	13 5	1 0	8 29	2 43	12 37	0 46	16 19	1 48	7 49	12 59	19 32	19 20	8 6	14 34	1 24									
W17	19 14	8 46	3 29	11 40	2 15	25 24	2 2	24 33	1 13	13 9	1 0	8 28	2 43	12 37	0 45	16 19	1 48	7 49	12 59	19 33	19 21	8 4	14 35	1 24									
T 18	19 28	4 43	4 10	12 20	2 8	25 23	2 4	24 31	1 13	13 14	1 0	8 27	2 43	12 37	0 45	16 19	1 48	7 50	12 59	19 33	19 22	8 2	14 36	1 24									
F 19	19 41	0 27	4 40	13 1	2 0	25 22	2 5	24 30	1 13	13 18	1 0	8 26	2 43	12 37	0 45	16 18	1 48	7 50	12 59	19 35	19 23	8 0	14 37	1 24									
S 20	19 54	3s53	4 58	13 42	1 52	25 20	2 7	24 28	1 13	13 23	1 0	8 25	2 43	12 36	0 45	16 18	1 48	7 50	12 59	19 37	19 23	7 58	14 38	1 25									
S 21	20 6	8 9	5 3	14 23	1 44	25 17	2 8	24 26	1 13	13 27	1 0	8 24	2 43	12 36	0 45	16 17	1 48	7 51	12 59	19 39	19 24	7 56	14 39	1 25									
M22	20 18	12 8	4 54	15 4	1 36	25 13	2 9	24 24	1 13	13 31	1 0	8 22	2 42	12 36	0 45	16 17	1 48	7 51	12 59	19 42	19 25	7 54	14 40	1 25									
T 23	20 30	15 40	4 29	15 45	1 26	25 9	2 10	24 21	1 13	13 36	1 0	8 21	2 42	12 35	0 45	16 17	1 48	7 51	12 59	19 44	19 26	7 52	14 41	1 25									
W24	20 41	18 29	3 50	16 25	1 17	25 4	2 12	24 19	1 13	13 40	1 0	8 20	2 42	12 35	0 45	16 16	1 48	7 51	12 59	19 46	19 26	7 50	14 42	1 25									
T 25	20 52	20 23	2 58	17 6	1 7	24 59	2 13	24 16	1 13	13 44	1 0	8 19	2 42	12 35	0 45	16 16	1 48	7 52	12 59	19 48	19 27	7 48	14 43	1 25									
F 26	21 3	21 10	1 55	17 46	0 57	24 53	2 14	24 13	1 13	13 49	1 1	8 18	2 42	12 34	0 45	16 15	1 48	7 52	12 59	19 49	19 28	7 46	14 44	1 25									
S 27	21 13	20 43	0 45	18 26	0 47	24 46	2 14	24 10	1 13	13 53	1 1	8 17	2 42	12 34	0 45	16 15	1 48	7 52	12 59	19 49	19 29	7 44	14 45	1 25									
S 28	21 23	19 1	0s29	19 4	0 37	24 38	2 15	24 7	1 13	13 57	1 1	8 17	2 41	12 33	0 45	16 15	1 48	7 52	12 59	19 49	19 29	7 42	14 46	1 25									
M29	21 33	16 11	1 42	19 42	0 26	24 30	2 16	24 3	1 13	14 1	1 1	8 16	2 41	12 33	0 45	16 14	1 48	7 53	12 59	19 49	19 30	7 40	14 47	1 25									
T 30	21 42	12 22	2 49	20 18	0 15	24 21	2 16	24 0	1 13	14 6	1 1	8 15	2 41	12 33	0 45	16 14	1 48	7 53	12 59	19 49	19 31	7 38	14 48	1 26									
W31	21n51	7s51	3s47	20n54	0s 5	24n12	2n17	23n56	1n13	14n10	1 s 1	8s14	2n41	12n32	0n45	16s13	1n48	7n53	12s59	19n49	19n31	7n36	14n49	1 s26									

ASTRODIENST EPHEMERIS for the year 2130

geocentric

JUNE 2130

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 37 13	10 ^{II} 24'15	3 ^V 13	6 ^{II} 23	21 [☾] 4	14 [☾] 21	11 [♂] 15	27°R54	28 [♂] 58	20°R51	2 ^{II} 27	1°R27	2 [♂] 43	19 [♂] 39	14 [♂] 35	T 1
F 2	16 41 10	11°21'48	17°31	8°33	22°12	14°59	11°29	27 [♂] 51	28°59	20 [♂] 49	2°28	1 [♂] 23	2°40	19°45	14°39	F 2
S 3	16 45 6	12°19'21	1 [♂] 48	10°45	23°20	15°37	11°42	27°49	29° 1	20°47	2°30	1°17	2°37	19°52	14°42	S 3
S 4	16 49 3	13°16'53	16° 1	12°57	24°28	16°15	11°55	27°46	29° 2	20°46	2°31	1° 9	2°34	19°59	14°46	S 4
M 5	16 52 59	14°14'25	0 ^{II} 3	15° 9	25°35	16°53	12° 9	27°44	29° 4	20°45	2°32	1° 2	2°31	20° 5	14°49	M 5
T 6	16 56 56	15°11'55	13°50	17°21	26°43	17°31	12°22	27°41	29° 5	20°43	2°34	0°55	2°28	20°12	14°53	T 6
W 7	17 0 53	16° 9'24	27°20	19°33	27°50	18°10	12°35	27°39	29° 7	20°42	2°35	0°49	2°24	20°19	14°56	W 7
T 8	17 4 49	17° 6'53	10 [☾] 29	21°44	28°58	18°48	12°48	27°37	29° 9	20°40	2°36	0°45	2°21	20°25	15° 0	T 8
F 9	17 8 46	18° 4'20	23°19	23°54	0 [♂] 5	19°26	13° 1	27°35	29°10	20°39	2°38	0°43	2°18	20°32	15° 3	F 9
S 10	17 12 42	19° 1'46	5 [♂] 49	26° 3	1°12	20° 4	13°14	27°33	29°12	20°37	2°39	0°D43	2°15	20°39	15° 7	S 10
S 11	17 16 39	19°59'12	18° 3	28°11	2°19	20°42	13°27	27°31	29°14	20°36	2°40	0°44	2°12	20°46	15°10	S 11
M12	17 20 35	20°56'36	0 [♂] 5	0 [☾] 17	3°25	21°20	13°40	27°29	29°16	20°35	2°42	0°46	2° 8	20°52	15°14	M12
T 13	17 24 32	21°53'59	11°59	2°21	4°32	21°58	13°53	27°27	29°18	20°33	2°43	0°47	2° 5	20°59	15°17	T 13
W14	17 28 28	22°51'21	23°50	4°24	5°38	22°36	14° 5	27°26	29°20	20°32	2°44	0°R48	2° 2	21° 6	15°20	W14
T 15	17 32 25	23°48'42	5 [♂] 43	6°25	6°44	23°14	14°18	27°24	29°22	20°31	2°45	0°47	1°59	21°12	15°23	T 15
F 16	17 36 22	24°46'02	17°43	8°23	7°50	23°52	14°31	27°23	29°24	20°29	2°47	0°44	1°56	21°19	15°27	F 16
S 17	17 40 18	25°43'21	29°55	10°20	8°56	24°30	14°43	27°21	29°26	20°28	2°48	0°41	1°53	21°26	15°30	S 17
S 18	17 44 15	26°40'39	12 [♂] 21	12°14	10° 2	25° 8	14°56	27°20	29°28	20°27	2°49	0°36	1°49	21°32	15°33	S 18
M19	17 48 11	27°37'56	25° 5	14° 6	11° 7	25°46	15° 8	27°19	29°30	20°26	2°50	0°31	1°46	21°39	15°36	M19
T 20	17 52 8	28°35'13	8 [♂] 7	15°55	12°12	26°24	15°20	27°18	29°32	20°24	2°52	0°25	1°43	21°46	15°39	T 20
W21	17 56 4	29°32'29	21°28	17°42	13°17	27° 2	15°33	27°17	29°35	20°23	2°53	0°21	1°40	21°52	15°42	W21
T 22	18 0 1	0 [☾] 29'45	5 [♂] 5	19°27	14°22	27°40	15°45	27°16	29°37	20°22	2°54	0°18	1°37	21°59	15°46	T 22
F 23	18 3 57	1°27'00	18°58	21°10	15°27	28°18	15°57	27°15	29°39	20°21	2°55	0°16	1°34	22° 6	15°49	F 23
S 24	18 7 54	2°24'14	3 [♂] 1	22°50	16°31	28°56	16° 9	27°14	29°42	20°20	2°57	0°D16	1°30	22°13	15°52	S 24
S 25	18 11 51	3°21'29	17°13	24°28	17°35	29°34	16°21	27°14	29°44	20°19	2°58	0°16	1°27	22°19	15°55	S 25
M26	18 15 47	4°18'43	1 [♂] 29	26° 3	18°39	0 [♂] 11	16°33	27°13	29°47	20°18	2°59	0°18	1°24	22°26	15°57	M26
T 27	18 19 44	5°15'57	15°45	27°36	19°42	0°49	16°45	27°13	29°49	20°17	3° 0	0°19	1°21	22°33	16° 0	T 27
W28	18 23 40	6°13'11	0 [♂] 1	29° 6	20°46	1°27	16°56	27°13	29°52	20°16	3° 1	0°R20	1°18	22°39	16° 3	W28
T 29	18 27 37	7°10'25	14°12	0 [♂] 34	21°49	2° 5	17° 8	27°12	29°54	20°15	3° 3	0°20	1°14	22°46	16° 6	T 29
F 30	18 31 33	8° [☾] 7'39	28° ^V 17	2 [♂] 0	22 [♂] 52	2 [♂] 43	17 [♂] 19	27 [♂] 12	29 [♂] 57	20 [♂] 14	3 ^{II} 4	0 [♂] 19	1 [♂] 11	22 [♂] 53	16 [♂] 9	F 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	21n59	2s52	4s31	21n27	0n 6	24n 2	2n17	23n52	1n13	14n14	1s 1	8s13	2n41	12n32	0n45	16s13	1n48	7n53	12s59	19n49	19n32	7n33	14n50	1s26	
F 2	22 8	2n16	4 s58	21 59	0 16	23 51	2 17	23 48	1 13	14 18	1 1	8 12	2 40	12 31	0 45	16 13	1 48	7 54	12 59	19 50	19 33	7 31	14 51	1 26	
S 3	22 15	7 17	5 7	22 29	0 27	23 40	2 18	23 43	1 13	14 22	1 1	8 12	2 40	12 31	0 45	16 12	1 48	7 54	12 59	19 52	19 34	7 29	14 52	1 26	
S 4	22 23	11 52	4 57	22 57	0 37	23 28	2 18	23 39	1 14	14 26	1 1	8 11	2 40	12 30	0 45	16 12	1 48	7 54	12 59	19 53	19 34	7 27	14 53	1 26	
M 5	22 29	15 45	4 29	23 22	0 47	23 16	2 18	23 34	1 14	14 30	1 1	8 10	2 40	12 29	0 45	16 12	1 48	7 54	12 59	19 55	19 35	7 25	14 54	1 26	
T 6	22 36	18 42	3 46	23 45	0 56	23 3	2 17	23 29	1 14	14 34	1 1	8 10	2 39	12 29	0 45	16 11	1 48	7 55	12 59	19 56	19 36	7 23	14 55	1 26	
W 7	22 42	20 33	2 51	24 5	1 5	22 49	2 17	23 24	1 14	14 38	1 1	8 9	2 39	12 28	0 45	16 11	1 48	7 55	12 59	19 58	19 36	7 21	14 56	1 26	
T 8	22 48	21 13	1 47	24 23	1 13	22 35	2 17	23 19	1 14	14 42	1 1	8 8	2 39	12 28	0 45	16 11	1 48	7 55	12 59	19 58	19 37	7 19	14 57	1 27	
F 9	22 53	20 45	0 40	24 38	1 21	22 20	2 16	23 14	1 14	14 46	1 1	8 8	2 39	12 27	0 45	16 10	1 48	7 55	12 59	19 59	19 38	7 17	14 57	1 27	
S 10	22 58	19 15	0n28	24 50	1 28	22 5	2 16	23 8	1 13	14 50	1 1	8 7	2 39	12 26	0 45	16 10	1 48	7 55	12 59	19 59	19 39	7 15	14 58	1 27	
S 11	23 3	16 53	1 33	24 59	1 35	21 49	2 15	23 2	1 13	14 54	1 1	8 7	2 38	12 26	0 45	16 10	1 48	7 56	12 59	19 59	19 39	7 13	14 59	1 27	
M12	23 7	13 49	2 33	25 6	1 40	21 33	2 14	22 56	1 13	14 57	1 1	8 7	2 38	12 25	0 45	16 9	1 47	7 56	12 59	19 58	19 40	7 10	15 0	1 27	
T 13	23 10	10 14	3 25	25 9	1 45	21 16	2 13	22 50	1 13	15 1	1 1	8 6	2 38	12 24	0 44	16 9	1 47	7 56	12 59	19 58	19 41	7 8	15 1	1 27	
W14	23 14	6 16	4 9	25 11	1 50	20 59	2 12	22 44	1 13	15 5	1 1	8 6	2 38	12 24	0 44	16 9	1 47	7 56	12 59	19 58	19 41	7 6	15 2	1 27	
T 15	23 17	2 3	4 42	25 9	1 53	20 41	2 11	22 38	1 13	15 8	1 1	8 5	2 37	12 23	0 44	16 8	1 47	7 56	12 59	19 58	19 42	7 4	15 3	1 27	
F 16	23 19	2s16	5 3	25 5	1 56	20 23	2 10	22 31	1 13	15 12	1 1	8 5	2 37	12 22	0 44	16 8	1 47	7 56	12 59	19 59	19 43	7 2	15 3	1 28	
S 17	23 21	6 34	5 11	24 59	1 58	20 4	2 8	22 24	1 13	15 16	1 1	8 5	2 37	12 21	0 44	16 8	1 47	7 57	12 59	19 59	19 44	7 0	15 4	1 28	
S 18	23 23	10 41	5 5	24 51	2 0	19 45	2 7	22 18	1 13	15 19	1 2	8 5	2 37	12 21	0 44	16 7	1 47	7 57	13 0	20 0	19 44	6 58	15 5	1 28	
M19	23 24	14 26	4 44	24 40	2 0	19 26	2 5	22 11	1 13	15 23	1 2	8 5	2 36	12 20	0 44	16 7	1 47	7 57	13 0	20 2	19 45	6 56	15 6	1 28	
T 20	23 25	17 35	4 7	24 27	2 0	19 6	2 3	22 3	1 13	15 26	1 2	8 4	2 36	12 19	0 44	16 7	1 47	7 57	13 0	20 3	19 46	6 54	15 6	1 28	
W21	23 25	19 53	3 16	24 13	1 59	18 45	2 1	21 56	1 13	15 30	1 2	8 4	2 36	12 18	0 44	16 7	1 47	7 57	13 0	20 4	19 46	6 51	15 7	1 28	
T 22	23 25	21 6	2 13	23 57	1 57	18 24	1 59	21 48	1 13	15 33	1 2	8 4	2 36	12 17	0 44	16 6	1 47	7 57	13 0	20 4	19 47	6 49	15 8	1 28	
F 23	23 25	21 4	1 2	23 39	1 55	18 3	1 57	21 41	1 13	15 37	1 2	8 4	2 35	12 16	0 44	16 6	1 47	7 57	13 0	20 5	19 48	6 47	15 9	1 29	
S 24	23 24	19 43	0s15	23 20	1 52	17 42	1 55	21 33	1 13	15 40	1 2	8 4	2 35	12 16	0 44	16 6	1 47	7 58	13 0	20 5	19 49	6 45	15 9	1 29	
S 25	23 23	17 7	1 32	22 59	1 49	17 20	1 52	21 25	1 13	15 43	1 2	8 4	2 35	12 15	0 44	16 5	1 47	7 58	13 0	20 5	19 49	6 43	15 10	1 29	
M26	23 21	13 29	2 43	22 38	1 44	16 58	1 50	21 17	1 13	15 47	1 2	8 4	2 35	12 14	0 44	16 5	1 47	7 58	13 0	20 4	19 50	6 41	15 11	1 29	
T 27	23 19	9 4	3 44	22 15	1 39	16 35	1 47	21 9	1 13	15 50	1 2	8 4	2 34	12 13	0 44	16 5	1 47	7 58	13 0	20 4	19 51	6 39	15 12	1 29	
W28	23 16	4 9	4 32	21 51	1 34	16 12	1 44	21 0	1 13	15 53	1 2	8 4	2 34	12 12	0 44	16 5	1 47	7 58	13 0	20 4	19 51	6 36	15 12	1 29	
T 29	23 14	0n57	5 2	21 26	1 27	15 49	1 41	20 52	1 13	15 56	1 2	8 5	2 34	12 11	0 44	16 5	1 47	7 58	13 1	20 4	19 52	6 34	15 13	1 29	
F 30	23n10	5n57	5s14	21n 1	1n21	15n26	1n38	20n43	1n13	16n 0	1s 2	8s 5	2n34	12n10	0n44	16s 4	1n47	7n58	13s 1	20n 4	19n53	6n32	15n14	1s30	

ASTRODIENST EPHEMERIS for the year 2130

geocentric

JULY 2130

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	18 35 30	9 ⁵⁵ 4'53	12 ²⁸ 14	3 ⁰² 23	23 ⁰² 54	3 ⁰² 21	17 ³⁸ 31	27°D12	29 ⁰² 59	20°R13	3 ¹¹ 5	0°R17	1 ⁰² 8	22 ⁰⁰ 59	16 ⁰⁸ 11	S 1
S 2	18 39 26	10° 2'07	26° 1	4°43	24°57	3°59	17°42	27 ⁰² 12	0 ⁰⁰ 2	20 ⁰⁰ 12	3° 6	0 ⁰⁰ 14	1° 5	23° 6	16°14	S 2
M 3	18 43 23	10°59'21	9 ¹¹ 37	6° 1	25°59	4°37	17°53	27°13	0° 5	20°11	3° 7	0°11	1° 2	23°13	16°17	M 3
T 4	18 47 20	11°56'35	22°58	7°17	27° 0	5°15	18° 5	27°13	0° 8	20°10	3° 8	0° 9	0°59	23°19	16°19	T 4
W 5	18 51 16	12°53'50	6 ⁵⁵ 5	8°29	28° 2	5°53	18°16	27°13	0°10	20° 9	3° 9	0° 7	0°55	23°26	16°22	W 5
T 6	18 55 13	13°51'04	18°56	9°39	29° 3	6°31	18°27	27°14	0°13	20° 8	3°10	0° 6	0°52	23°33	16°24	T 6
F 7	18 59 9	14°48'18	1 ⁰² 32	10°46	0 ⁰⁰ 4	7° 9	18°38	27°14	0°16	20° 8	3°11	0°D 6	0°49	23°40	16°27	F 7
S 8	19 3 6	15°45'32	13°54	11°50	1° 4	7°47	18°48	27°15	0°19	20° 7	3°12	0° 6	0°46	23°46	16°29	S 8
S 9	19 7 2	16°42'46	26° 3	12°52	2° 4	8°24	18°59	27°16	0°22	20° 6	3°13	0° 7	0°43	23°53	16°32	S 9
M10	19 10 59	17°39'59	8 ⁰⁰ 3	13°50	3° 4	9° 2	19°10	27°17	0°25	20° 5	3°15	0° 8	0°40	24° 0	16°34	M10
T 11	19 14 55	18°37'13	19°57	14°45	4° 4	9°40	19°20	27°18	0°28	20° 5	3°16	0° 9	0°36	24° 6	16°36	T 11
W12	19 18 52	19°34'26	1 ⁰² 48	15°36	5° 3	10°18	19°30	27°19	0°31	20° 4	3°17	0°10	0°33	24°13	16°39	W12
T 13	19 22 49	20°31'39	13°41	16°24	6° 1	10°56	19°41	27°20	0°34	20° 3	3°17	0°11	0°30	24°20	16°41	T 13
F 14	19 26 45	21°28'52	25°41	17° 9	7° 0	11°34	19°51	27°21	0°37	20° 3	3°18	0°R11	0°27	24°26	16°43	F 14
S 15	19 30 42	22°26'05	7 ⁰⁰ 52	17°50	7°58	12°12	20° 1	27°23	0°40	20° 2	3°19	0°10	0°24	24°33	16°45	S 15
S 16	19 34 38	23°23'19	20°19	18°27	8°55	12°50	20°11	27°24	0°43	20° 2	3°20	0°10	0°20	24°40	16°47	S 16
M17	19 38 35	24°20'32	3 ⁰⁰ 5	19° 0	9°52	13°28	20°21	27°26	0°47	20° 1	3°21	0° 9	0°17	24°47	16°49	M17
T 18	19 42 31	25°17'45	16°13	19°29	10°49	14° 6	20°30	27°27	0°50	20° 1	3°22	0° 8	0°14	24°53	16°51	T 18
W19	19 46 28	26°14'59	29°44	19°54	11°45	14°44	20°40	27°29	0°53	20° 0	3°23	0° 8	0°11	25° 0	16°53	W19
T 20	19 50 24	27°12'12	13 ⁰³ 37	20°14	12°40	15°21	20°49	27°31	0°56	20° 0	3°24	0° 8	0° 8	25° 7	16°55	T 20
F 21	19 54 21	28° 9'26	27°50	20°30	13°35	15°59	20°59	27°33	1° 0	20° 0	3°25	0°D 8	0° 5	25°13	16°57	F 21
S 22	19 58 18	29° 6'41	12 ⁰⁰ 18	20°41	14°30	16°37	21° 8	27°35	1° 3	19°59	3°26	0° 8	0° 1	25°20	16°58	S 22
S 23	20 2 14	0 ⁰⁰ 3'56	26°56	20°47	15°24	17°15	21°17	27°37	1° 6	19°59	3°27	0°R 8	29 ⁰⁵ 58	25°27	17° 0	S 23
M24	20 6 11	1° 1'11	11 ⁰⁰ 38	20°R 49	16°17	17°53	21°26	27°39	1°10	19°59	3°27	0° 8	29°55	25°33	17° 2	M24
T 25	20 10 7	1°58'27	26°17	20°45	17°10	18°31	21°35	27°42	1°13	19°58	3°28	0° 7	29°52	25°40	17° 3	T 25
W26	20 14 4	2°55'44	10 ⁰⁰ 47	20°37	18° 2	19° 9	21°44	27°44	1°16	19°58	3°29	0° 7	29°49	25°47	17° 5	W26
T 27	20 18 0	3°53'02	25° 5	20°24	18°54	19°47	21°52	27°47	1°20	19°58	3°30	0° 7	29°46	25°54	17° 6	T 27
F 28	20 21 57	4°50'21	9 ⁰⁰ 7	20° 5	19°45	20°25	22° 1	27°49	1°23	19°58	3°30	0°D 7	29°42	26° 0	17° 8	F 28
S 29	20 25 53	5°47'41	22°53	19°42	20°36	21° 3	22° 9	27°52	1°27	19°58	3°31	0° 7	29°39	26° 7	17° 9	S 29
S 30	20 29 50	6°45'02	6 ⁰⁰ 23	19°15	21°25	21°41	22°17	27°55	1°30	19°58	3°32	0° 8	29°36	26°14	17°11	S 30
M31	20 33 47	7 ⁰⁰ 42'23	19 ⁰⁰ 37	18 ⁰⁰ 43	22 ⁰⁰ 14	22 ⁰⁰ 19	22 ⁰⁰ 25	27 ⁰⁰ 58	1 ⁰⁰ 34	19 ⁰⁰ 58	3 ⁰⁰ 33	0 ⁰⁰ 8	29 ⁰⁰ 33	26 ⁰⁰ 20	17 ⁰⁰ 12	M31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	23n 7	10n36	5s 8	20n34	1n13	15n 2	1n35	20n34	1n13	16n 3	1s 2	8s 5	2n33	12n 9	0n44
S 2	23 2	14 39	4 43	20 8	1 5	14 38	1 31	20 25	1 12	16 6	1 3	8 5	2 33	12 8	0 44
M 3	22 58	17 52	4 3	19 40	0 57	14 14	1 28	20 16	1 12	16 9	1 3	8 6	2 33	12 7	0 44
T 4	22 53	20 4	3 11	19 13	0 48	13 49	1 24	20 7	1 12	16 12	1 3	8 6	2 32	12 6	0 44
W 5	22 48	21 8	2 9	18 45	0 39	13 24	1 20	19 57	1 12	16 15	1 3	8 6	2 32	12 5	0 44
T 6	22 42	21 4	1 1	18 17	0 29	12 59	1 16	19 48	1 12	16 18	1 3	8 7	2 32	12 4	0 44
F 7	22 36	19 56	0n 8	17 49	0 18	12 34	1 12	19 38	1 12	16 21	1 3	8 7	2 32	12 3	0 44
S 8	22 29	17 51	1 16	17 21	0 7	12 9	1 8	19 28	1 12	16 23	1 3	8 8	2 31	12 2	0 44
S 9	22 23	15 0	2 19	16 53	0s 4	11 43	1 4	19 18	1 12	16 26	1 3	8 8	2 31	12 1	0 44
M10	22 15	11 33	3 15	16 25	0 16	11 17	0 59	19 8	1 12	16 29	1 3	8 9	2 31	12 0	0 44
T 11	22 8	7 42	4 2	15 57	0 28	10 51	0 54	18 58	1 12	16 32	1 3	8 10	2 31	11 59	0 44
W12	22 0	3 33	4 39	15 30	0 40	10 25	0 50	18 48	1 12	16 34	1 4	8 10	2 30	11 58	0 44
T 13	21 51	0s43	5 4	15 4	0 53	9 59	0 45	18 37	1 11	16 37	1 4	8 11	2 30	11 57	0 44
F 14	21 42	5 1	5 16	14 38	1 6	9 33	0 39	18 27	1 11	16 40	1 4	8 12	2 30	11 55	0 44
S 15	21 33	9 10	5 14	14 13	1 20	9 6	0 34	18 16	1 11	16 42	1 4	8 12	2 30	11 54	0 44
S 16	21 24	13 2	4 58	13 48	1 33	8 40	0 29	18 5	1 11	16 45	1 4	8 13	2 29	11 53	0 44
M17	21 14	16 24	4 26	13 25	1 47	8 13	0 23	17 54	1 11	16 47	1 4	8 14	2 29	11 52	0 44
T 18	21 4	19 3	3 40	13 3	2 1	7 47	0 17	17 43	1 11	16 50	1 4	8 15	2 29	11 51	0 44
W19	20 53	20 44	2 41	12 42	2 15	7 20	0 12	17 32	1 11	16 52	1 4	8 16	2 28	11 50	0 43
T 20	20 42	21 14	1 30	12 22	2 29	6 53	0 6	17 21	1 11	16 55	1 4	8 16	2 28	11 49	0 43
F 21	20 31	20 22	0 13	12 4	2 43	6 26	0s 1	17 9	1 11	16 57	1 5	8 17	2 28	11 47	0 43
S 22	20 19	18 10	1s 7	11 47	2 57	5 59	0 7	16 58	1 10	16 59	1 5	8 18	2 28	11 46	0 43
S 23	20 7	14 46	2 23	11 32	3 11	5 33	0 13	16 46	1 10	17 2	1 5	8 19	2 27	11 45	0 43
M24	19 55	10 26	3 31	11 19	3 24	5 6	0 20	16 34	1 10	17 4	1 5	8 20	2 27	11 44	0 43
T 25	19 42	5 31	4 24	11 8	3 37	4 39	0 27	16 22	1 10	17 6	1 5	8 21	2 27	11 43	0 43
W26	19 29	0 20	4 59	10 58	3 50	4 12	0 34	16 11	1 10	17 8	1 5	8 23	2 27	11 41	0 43
T 27	19 16	4n48	5 16	10 51	4 2	3 46	0 41	15 58	1 10	17 10	1 5	8 24	2 26	11 40	0 43
F 28	19 2	9 34	5 13	10 46	4 13	3 19	0 48	15 46	1 10	17 12	1 5	8 25	2 26	11 39	0 43
S 29	18 49	13 46	4 53	10 44	4 23	2 52	0 56	15 34	1 9	17 14	1 6	8 26	2 26	11 38	0 43
S 30	18 34	17 9	4 16	10 43	4 32	2 26	1 3	15 22	1 9	17 16	1 6	8 27	2 26	11 36	0 43
M31	18n20	19n35	3s26	10n46	4s40	1n59	1s11	15n 9	1n 9	17n18	1s 6	8s29	2n25	11n35	0n43

Julian Day Number = 2499207.5, Delta T = 109.25 sec
 Ecliptic obliquity = 23°25'15, Nutation = - 0°00'15, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°33'49, Lahiri = 25°40'50

ASTRODIENST EPHEMERIS for the year 2130

geocentric

AUGUST 2130

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 37 43	8♌39°46	2♊35	18°R 8	23♎ 3	22♏57	22♏33	28♎ 0	1♎37	19°D57	3♏33	0♏ 9	29♊30	26♎27	17♏13	T 1
W 2	20 41 40	9°37'10	15°20	17♏29	23°50	23°34	22°41	28° 4	1°41	19♎57	3°34	0°10	29°26	26°34	17°14	W 2
T 3	20 45 36	10°34'35	27°51	16°47	24°37	24°12	22°48	28° 7	1°44	19°58	3°34	0°R10	29°23	26°40	17°15	T 3
F 4	20 49 33	11°32'00	10♏12	16° 4	25°23	24°50	22°56	28°10	1°48	19°58	3°35	0°10	29°20	26°47	17°17	F 4
S 5	20 53 29	12°29'26	22°23	15°18	26° 8	25°28	23° 3	28°13	1°51	19°58	3°36	0° 9	29°17	26°54	17°18	S 5
S 6	20 57 26	13°26'54	4♎25	14°32	26°52	26° 6	23°11	28°17	1°55	19°58	3°36	0° 8	29°14	27° 1	17°18	S 6
M 7	21 1 22	14°24'21	16°20	13°47	27°35	26°44	23°18	28°20	1°59	19°58	3°37	0° 6	29°11	27° 7	17°19	M 7
T 8	21 5 19	15°21'50	28°12	13° 2	28°18	27°22	23°24	28°24	2° 2	19°58	3°37	0° 4	29° 7	27°14	17°20	T 8
W 9	21 9 16	16°19'20	10♎ 3	12°19	28°59	28° 0	23°31	28°27	2° 6	19°58	3°38	0° 1	29° 4	27°21	17°21	W 9
T 10	21 13 12	17°16'50	21°55	11°39	29°39	28°38	23°38	28°31	2° 9	19°59	3°38	29♊59	29° 1	27°27	17°22	T 10
F 11	21 17 9	18°14'21	3♎54	11° 3	0♎18	29°16	23°44	28°35	2°13	19°59	3°39	29°58	28°58	27°34	17°22	F 11
S 12	21 21 5	19°11'53	16° 3	10°30	0°57	29°54	23°50	28°39	2°17	19°59	3°39	29°D57	28°55	27°41	17°23	S 12
S 13	21 25 2	20° 9'26	28°27	10° 3	1°33	0♎32	23°57	28°43	2°20	20° 0	3°40	29°57	28°51	27°47	17°24	S 13
M14	21 28 58	21° 6'59	11♎10	9°41	2° 9	1°10	24° 3	28°47	2°24	20° 0	3°40	29°58	28°48	27°54	17°24	M14
T 15	21 32 55	22° 4'34	24°15	9°25	2°44	1°48	24° 8	28°51	2°28	20° 0	3°41	29°59	28°45	28° 1	17°24	T 15
W16	21 36 51	23° 2'09	7♊46	9°16	3°17	2°27	24°14	28°55	2°32	20° 1	3°41	0♏ 1	28°42	28° 8	17°25	W16
T 17	21 40 48	23°59'46	21°44	9°D13	3°49	3° 5	24°19	28°59	2°35	20° 1	3°41	0° 2	28°39	28°14	17°25	T 17
F 18	21 44 45	24°57'23	6♎ 7	9°18	4°19	3°43	24°25	29° 4	2°39	20° 2	3°42	0°R 2	28°36	28°21	17°25	F 18
S 19	21 48 41	25°55'02	20°51	9°30	4°48	4°21	24°30	29° 8	2°43	20° 2	3°42	0° 1	28°32	28°28	17°26	S 19
S 20	21 52 38	26°52'42	5♎50	9°49	5°15	4°59	24°35	29°13	2°47	20° 3	3°42	29♊59	28°29	28°34	17°26	S 20
M21	21 56 34	27°50'23	20°55	10°16	5°41	5°37	24°40	29°17	2°50	20° 4	3°43	29°55	28°26	28°41	17°26	M21
T 22	22 0 31	28°48'05	5♎58	10°50	6° 5	6°15	24°44	29°22	2°54	20° 4	3°43	29°51	28°23	28°48	17°R26	T 22
W23	22 4 27	29°45'49	20°48	11°31	6°28	6°53	24°49	29°27	2°58	20° 5	3°43	29°48	28°20	28°54	17°26	W23
T 24	22 8 24	0♎43'35	5♊20	12°19	6°48	7°31	24°53	29°31	3° 1	20° 6	3°43	29°44	28°17	29° 1	17°26	T 24
F 25	22 12 20	1°41'23	19°29	13°15	7° 7	8° 9	24°57	29°36	3° 5	20° 6	3°44	29°43	28°13	29° 8	17°26	F 25
S 26	22 16 17	2°39'12	3♏15	14°17	7°24	8°47	25° 1	29°41	3° 9	20° 7	3°44	29°D42	28°10	29°15	17°25	S 26
S 27	22 20 14	3°37'03	16°37	15°26	7°39	9°26	25° 4	29°46	3°13	20° 8	3°44	29°43	28° 7	29°21	17°25	S 27
M28	22 24 10	4°34'56	29°38	16°41	7°53	10° 4	25° 8	29°51	3°17	20° 9	3°44	29°44	28° 4	29°28	17°25	M28
T 29	22 28 7	5°32'50	12♊21	18° 1	8° 4	10°42	25°11	29°56	3°20	20°10	3°44	29°46	28° 1	29°35	17°25	T 29
W30	22 32 3	6°30'46	24°49	19°27	8°13	11°20	25°14	0♎ 1	3°24	20°11	3°44	29°R47	27°57	29°41	17°24	W30
T 31	22 36 0	7♎28'44	7♏ 5	20♏58	8♎20	11♎58	25♊17	0♎ 7	3♎28	20♎11	3♏44	29♊46	27♊54	29♎48	17♏24	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	18n 5	20n57	2s27	10n50	4s47	1n33	1s19	14n57	1n 9	17n20	1s 6	8s30	2n25	11n34	0n43	16s 2
W 2	17 50	21 12	1 21	10 57	4 52	1 7	1 27	14 44	1 9	17 22	1 6	8 31	2 25	11 33	0 43	16 2
T 3	17 34	20 22	0 13	11 6	4 55	0 41	1 35	14 31	1 9	17 24	1 6	8 32	2 25	11 31	0 43	16 2
F 4	17 19	18 34	0n55	11 17	4 57	0 15	1 43	14 18	1 8	17 25	1 6	8 34	2 24	11 30	0 43	16 2
S 5	17 3	15 56	2 0	11 30	4 57	0s10	1 52	14 6	1 8	17 27	1 6	8 35	2 24	11 29	0 43	16 2
S 6	16 46	12 39	2 58	11 44	4 56	0 36	2 0	13 52	1 8	17 29	1 7	8 37	2 24	11 27	0 43	16 2
M 7	16 30	8 53	3 48	12 1	4 52	1 1	2 9	13 39	1 8	17 30	1 7	8 38	2 24	11 26	0 43	16 2
T 8	16 13	4 49	4 28	12 18	4 47	1 26	2 18	13 26	1 8	17 32	1 7	8 40	2 23	11 25	0 43	16 2
W 9	15 56	0 34	4 57	12 37	4 40	1 51	2 27	13 13	1 8	17 33	1 7	8 41	2 23	11 24	0 43	16 2
T 10	15 39	3s42	5 12	12 56	4 31	2 15	2 36	13 0	1 7	17 35	1 7	8 43	2 23	11 22	0 43	16 3
F 11	15 21	7 52	5 15	13 16	4 20	2 39	2 46	12 46	1 7	17 36	1 7	8 44	2 23	11 21	0 43	16 3
S 12	15 3	11 47	5 3	13 36	4 8	3 3	2 55	12 33	1 7	17 38	1 7	8 46	2 23	11 20	0 43	16 3
S 13	14 45	15 17	4 37	13 56	3 55	3 27	3 5	12 19	1 7	17 39	1 8	8 47	2 22	11 18	0 43	16 3
M14	14 27	18 11	3 58	14 16	3 41	3 50	3 15	12 5	1 7	17 40	1 8	8 49	2 22	11 17	0 43	16 3
T 15	14 8	20 14	3 4	14 34	3 26	4 13	3 25	11 52	1 7	17 42	1 8	8 51	2 22	11 16	0 43	16 3
W16	13 50	21 12	2 0	14 52	3 10	4 35	3 35	11 38	1 6	17 43	1 8	8 52	2 22	11 14	0 43	16 4
T 17	13 31	20 55	0 46	15 9	2 53	4 57	3 45	11 24	1 8	17 44	1 8	8 54	2 21	11 13	0 43	16 4
F 18	13 12	19 16	0s33	15 24	2 36	5 19	3 55	11 10	1 6	17 45	1 8	8 56	2 21	11 12	0 43	16 4
S 19	12 52	16 18	1 52	15 38	2 19	5 40	4 6	10 56	1 6	17 46	1 9	8 58	2 21	11 10	0 43	16 4
S 20	12 33	12 13	3 4	15 50	2 1	6 0	4 16	10 42	1 6	17 47	1 9	8 59	2 21	11 9	0 43	16 4
M21	12 13	7 20	4 4	16 0	1 44	6 20	4 27	10 27	1 5	17 48	1 9	9 1	2 21	11 8	0 43	16 5
T 22	11 53	2 1	4 46	16 7	1 26	6 40	4 38	10 13	1 5	17 49	1 9	9 3	2 20	11 6	0 43	16 5
W23	11 33	3n20	5 9	16 12	1 9	6 59	4 48	9 59	1 5	17 50	1 9	9 5	2 20	11 5	0 43	16 5
T 24	11 12	8 24	5 11	16 15	0 53	7 17	4 59	9 45	1 5	17 51	1 9	9 7	2 20	11 3	0 43	16 5
F 25	10 52	12 52	4 54	16 15	0 36	7 34	5 10	9 30	1 4	17 52	1 9	9 9	2 20	11 2	0 43	16 5
S 26	10 31	16 31	4 21	16 12	0 21	7 51	5 21	9 16	1 4	17 53	1 10	9 11	2 20	11 1	0 43	16 6
S 27	10 10	19 12	3 34	16 6	0 6	8 7	5 32	9 1	1 4	17 53	1 10	9 12	2 19	10 59	0 43	16 6
M28	9 49	20 48	2 37	15 57	0n 8	8 22	5 43	8 46	1 4	17 54	1 10	9 14	2 19	10 58	0 43	16 6
T 29	9 28	21 18	1 34	15 46	0 22	8 37	5 54	8 32	1 4	17 55	1 10	9 16	2 19	10 57	0 43	16 7
W30	9 7	20 42	0 27	15 31	0 34	8 50	6 5	8 17	1 3	17 55	1 10	9 18	2 19	10 55	0 43	16 7
T 31	8n45	19n 8	0n40	15n13	0n45	9s 3	6s15	8n 2	1n 3	17n56	1s10	9s20	2n19	10n54	0n43	16s 7

Julian Day Number = 2499238.5, Delta T = 109.30 sec
 Ecliptic obliquity = 23°25'16, Nutation = - 0°00'14, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°33'53, Lahiri = 25°40'54

ASTRODIENST EPHEMERIS for the year 2130

geocentric

OCTOBER 2130

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 38 13	7♂39'32	22♏ 2	17♂ 5	26°R16	1♂50	25°R12	3♏16	5♏19	20♏54	3°R36	27°R39	26♏16	3♂16	16°R41	S 1
M 2	0 42 9	8°38'28	3♂52	18°44	25♏46	2°28	25♏ 8	3°23	5°22	20°56	3♏36	27♏28	26°13	3°23	16♏39	M 2
T 3	0 46 6	9°37'26	15°45	20°22	25°17	3° 7	25° 5	3°30	5°26	20°57	3°35	27°14	26° 9	3°29	16°37	T 3
W 4	0 50 3	10°36'26	27°40	21°59	24°50	3°46	25° 1	3°36	5°29	20°59	3°35	27° 1	26° 6	3°36	16°34	W 4
T 5	0 53 59	11°35'29	9♏39	23°35	24°26	4°25	24°57	3°43	5°32	21° 1	3°34	26°48	26° 3	3°43	16°32	T 5
F 6	0 57 56	12°34'33	21°44	25°11	24° 3	5° 3	24°53	3°50	5°35	21° 3	3°33	26°37	26° 0	3°50	16°30	F 6
S 7	1 1 52	13°33'39	3♂56	26°46	23°43	5°42	24°48	3°57	5°38	21° 5	3°33	26°28	25°57	3°56	16°27	S 7
S 8	1 5 49	14°32'47	16°20	28°20	23°25	6°21	24°44	4° 4	5°42	21° 7	3°32	26°23	25°54	4° 3	16°25	S 8
M 9	1 9 45	15°31'57	28°57	29°53	23° 9	7° 0	24°39	4°11	5°45	21° 8	3°31	26°20	25°50	4°10	16°23	M 9
T 10	1 13 42	16°31'09	11♏52	1♏25	22°55	7°39	24°35	4°18	5°48	21°10	3°31	26°19	25°47	4°16	16°20	T 10
W11	1 17 38	17°30'22	25° 8	2°57	22°45	8°18	24°30	4°25	5°51	21°12	3°30	26°19	25°44	4°23	16°18	W11
T 12	1 21 35	18°29'37	8♏49	4°28	22°36	8°57	24°24	4°32	5°54	21°14	3°29	26°18	25°41	4°30	16°15	T 12
F 13	1 25 32	19°28'54	22°57	5°58	22°30	9°36	24°19	4°39	5°57	21°16	3°28	26°17	25°38	4°37	16°12	F 13
S 14	1 29 28	20°28'12	7♏31	7°27	22°26	10°14	24°14	4°46	6° 0	21°18	3°28	26°12	25°34	4°43	16°10	S 14
S 15	1 33 25	21°27'32	22°27	8°55	22°D25	10°53	24° 8	4°53	6° 3	21°20	3°27	26° 5	25°31	4°50	16° 7	S 15
M16	1 37 21	22°26'55	7♏39	10°23	22°26	11°32	24° 2	5° 1	6° 6	21°22	3°26	25°56	25°28	4°57	16° 5	M16
T 17	1 41 18	23°26'19	22°57	11°50	22°30	12°11	23°56	5° 8	6° 8	21°24	3°25	25°45	25°25	5° 3	16° 2	T 17
W18	1 45 14	24°25'45	8♏ 9	13°16	22°36	12°50	23°50	5°15	6°11	21°26	3°24	25°33	25°22	5°10	15°59	W18
T 19	1 49 11	25°25'13	23° 4	14°42	22°44	13°29	23°44	5°22	6°14	21°28	3°24	25°23	25°19	5°17	15°56	T 19
F 20	1 53 7	26°24'44	7♏34	16° 6	22°54	14° 9	23°37	5°29	6°17	21°30	3°23	25°15	25°15	5°24	15°54	F 20
S 21	1 57 4	27°24'16	21°36	17°30	23° 7	14°48	23°31	5°36	6°19	21°32	3°22	25° 9	25°12	5°30	15°51	S 21
S 22	2 1 1	28°23'51	5♏ 7	18°52	23°21	15°27	23°24	5°44	6°22	21°35	3°21	25° 6	25° 9	5°37	15°48	S 22
M23	2 4 57	29°23'29	18°10	20°14	23°38	16° 6	23°17	5°51	6°25	21°37	3°20	25° 5	25° 6	5°44	15°45	M23
T 24	2 8 54	0♏23'08	0♏48	21°35	23°57	16°45	23°11	5°58	6°27	21°39	3°19	25° 5	25° 3	5°50	15°42	T 24
W25	2 12 50	1°22'50	13° 7	22°55	24°17	17°24	23° 4	6° 5	6°30	21°41	3°18	25° 5	25° 0	5°57	15°39	W25
T 26	2 16 47	2°22'34	25°12	24°13	24°40	18° 3	22°56	6°12	6°32	21°43	3°17	25° 3	24°56	6° 4	15°37	T 26
F 27	2 20 43	3°22'21	7♏ 7	25°31	25° 4	18°43	22°49	6°20	6°35	21°45	3°16	24°59	24°53	6°11	15°34	F 27
S 28	2 24 40	4°22'09	18°58	26°47	25°30	19°22	22°42	6°27	6°37	21°47	3°15	24°52	24°50	6°17	15°31	S 28
S 29	2 28 36	5°21'59	0♏48	28° 1	25°58	20° 1	22°34	6°34	6°40	21°50	3°14	24°42	24°47	6°24	15°28	S 29
M30	2 32 33	6°21'52	12°40	29°14	26°27	20°40	22°27	6°41	6°42	21°52	3°13	24°30	24°44	6°31	15°25	M30
T 31	2 36 29	7♏21'47	24♏36	0♏25	26♏58	21♏20	22♏19	6♏49	6♏44	21♏54	3♏12	24♏16	24♏40	6♏37	15♏22	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
S 1	3s 2	6n55	4n 5	6s19	0n25	5s42	7s50	0n 7	0n55	17n50	1s15	10s30	2n14	10n14	0n44	16s20	1n42	7n45	13s20	20n37	20n53	3n 3	15n 7	1s45					
M 2	3 25	2 41	4 36	7 3	0 18	5 22	7 41	0s 9	0 55	17 49	1 15	10 32	2 14	10 13	0 44	16 20	1 42	7 44	13 21	20 39	20 54	3 1	15 7	1 46					
T 3	3 49	1s39	4 55	7 46	0 11	5 1	7 31	0 25	0 54	17 48	1 15	10 34	2 14	10 11	0 44	16 21	1 42	7 44	13 21	20 42	20 54	2 58	15 6	1 46					
W 4	4 12	5 57	5 1	8 29	0 4	4 41	7 20	0 40	0 54	17 47	1 15	10 37	2 14	10 10	0 44	16 21	1 42	7 44	13 21	20 44	20 55	2 56	15 5	1 46					
T 5	4 35	10 3	4 53	9 12	0s 3	4 21	7 9	0 56	0 54	17 46	1 15	10 39	2 14	10 9	0 44	16 22	1 42	7 43	13 21	20 47	20 55	2 54	15 4	1 46					
F 6	4 58	13 47	4 33	9 53	0 10	4 2	6 57	1 12	0 53	17 45	1 15	10 42	2 14	10 8	0 44	16 22	1 42	7 43	13 21	20 49	20 56	2 51	15 4	1 46					
S 7	5 21	17 0	4 0	10 34	0 17	3 43	6 46	1 27	0 53	17 44	1 15	10 44	2 13	10 7	0 44	16 23	1 42	7 43	13 22	20 51	20 57	2 49	15 3	1 46					
S 8	5 44	19 30	3 15	11 15	0 24	3 24	6 33	1 43	0 53	17 43	1 16	10 46	2 13	10 6	0 44	16 23	1 42	7 43	13 22	20 52	20 57	2 47	15 2	1 47					
M 9	6 7	21 6	2 19	11 54	0 31	3 7	6 21	1 59	0 52	17 42	1 16	10 49	2 13	10 5	0 44	16 24	1 41	7 42	13 22	20 52	20 58	2 44	15 1	1 47					
T 10	6 29	21 38	1 16	12 33	0 38	2 50	6 8	2 14	0 52	17 40	1 16	10 51	2 13	10 3	0 44	16 24	1 41	7 42	13 22	20 52	20 58	2 42	15 0	1 47					
W11	6 52	20 59	0 6	13 12	0 45	2 33	5 55	2 30	0 52	17 39	1 16	10 54	2 13	10 2	0 44	16 25	1 41	7 42	13 22	20 52	20 59	2 40	14 59	1 47					
T 12	7 15	19 6	1s 6	13 49	0 52	2 18	5 42	2 45	0 51	17 38	1 16	10 56	2 13	10 1	0 44	16 25	1 41	7 41	13 22	20 52	20 59	2 37	14 59	1 47					
F 13	7 37	16 0	2 16	14 26	0 59	2 3	5 28	3 1	0 51	17 36	1 16	10 58	2 13	10 0	0 44	16 26	1 41	7 41	13 23	20 53	21 0	2 35	14 58	1 47					
S 14	7 59	11 49	3 19	15 2	1 6	1 50	5 15	3 17	0 51	17 35	1 16	11 1	2 13	9 59	0 44	16 27	1 41	7 41	13 23	20 54	21 1	2 32	14 57	1 47					
S 15	8 22	6 50	4 11	15 37	1 13	1 37	5 2	3 32	0 50	17 34	1 16	11 3	2 13	9 58	0 44	16 27	1 41	7 40	13 23	20 55	21 1	2 30	14 56	1 48					
M16	8 44	1 20	4 45	16 11	1 20	1 25	4 48	3 48	0 50	17 32	1 16	11 6	2 13	9 57	0 44	16 28	1 41	7 40	13 23	20 57	21 2	2 28	14 55	1 48					
T 17	9 6	4n16	5 0	16 45	1 26	1 14	4 35	4 3	0 50	17 31	1 16	11 8	2 13	9 56	0 44	16 28	1 41	7 40	13 23	20 59	21 2	2 25	14 54	1 48					
W18	9 28	9 35	4 53	17 17	1 33	1 4	4 22	4 19	0 49	17 29	1 16	11 10	2 13	9 55	0 44	16 29	1 41	7 40	13 23	21 1	21 3	2 23	14 53	1 48					
T 19	9 49	14 14	4 26	17 49	1 39	0 56	4 9	4 34	0 49	17 27	1 16	11 13	2 13	9 54	0 44	16 29	1 41	7 39	13 24	21 3	21 4	2 21	14 52	1 48					
F 20	10 11	17 54	3 43	18 20	1 46	0 48	3 56	4 50	0 49	17 26	1 16	11 15	2 13	9 53	0 44	16 30	1 41	7 39	13 24	21 4	21 4	2 18	14 51	1 48					
S 21	10 33	20 23	2 47	18 50	1 52	0 41	3 43	5 5	0 48	17 24	1 16	11 18	2 13	9 52	0 44	16 30	1 41	7 39	13 24	21 5	21 5	2 16	14 50	1 48					
S 22	10 54	21 36	1 44	19 19	1 58	0 35	3 30	5 20	0 48	17 23	1 16	11 20	2 13	9 51	0 44	16 31	1 41	7 38	13 24	21 6	21 5	2 14	14 50	1 48					
M23	11 15	21 35	0 37	19 46	2 4	0 30	3 17	5 36	0 47	17 21	1 16	11 22	2 13	9 50	0 44	16 32	1 41	7 38	13 24	21 6	21 6	2 11	14 49	1 49					
T 24	11 36	20 27	0n30	20 13	2 9	0 26	3 5	5 51	0 47	17 19	1 17	11 25	2 13	9 49	0 44	16 32	1 41	7 38	13 24	21 6	21 6	2 9	14 48	1 49					
W25	11 57	18 22	1 34	20 39	2 14	0 23	2 53	6 7	0 47	17 17	1 17	11 27	2 12	9 48	0 44	16 33	1 41	7 38	13 24	21 6	21 7	2 6	14 47	1 49					
T 26	12 17	15 30	2 32	21 4	2 19	0 21	2 41	6 22	0 46	17 16	1 17	11 30	2 12	9 47	0 44	16 33	1 41	7 37	13 24	21 6	21 8	2 4	14 46	1 49					
F 27	12 38	12 1	3 23	21 27	2 24	0 19	2 29	6 37	0 46	17 14	1 17	11 32	2 12	9 47	0 44	16 34	1 41	7 37	13 25	21 7	21 8	2 2	14 45	1 49					
S 28	12 58	8 6	4 4	21 50	2 29	0 19	2 18	6 52	0 46	17 12	1 17	11 34	2 12	9 46	0 44	16 34	1 41	7 37	13 25	21 8	21 9	1 59	14 44	1 49					
S 29	13 18	3 53	4 35	22 11	2 33	0 20	2 6	7 7	0 45	17 10	1 17	11 37	2 12	9 45	0 44	16 35	1 41	7 36	13 25	21 10	21 9	1 57	14 43	1 49					
M30	13 38	0s29	4 54	22 31	2 37	0 21	1 55	7 23	0 45	17 8	1 17	11 39	2 12	9 44	0 44	16 36	1 41	7 36	13 25	21 12	21 10	1 54	14 42	1 49					
T 31	13s57	4s52	5n 0	22s50	2s40	0s24	1s44	7s38	0n44	17n 6	1s17	11s42	2n12	9n43	0n45	16s36	1n41	7n36	13s25	21n15	21n10	1n52	14n41	1s49					

ASTRODIENST EPHEMERIS for the year 2130
geocentric

NOVEMBER 2130

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 40 26	8♑21'43	6♑38	1♂35	27♑31	21♂59	22°R12	6♑56	6♑47	21♑56	3°R11	24°R 2	24♑37	6♑44	15°R19	W 1
T 2	2 44 23	9°21'42	18°47	2°42	28° 5	22°39	22♂ 4	7° 3	6°49	21°58	3♑10	23♑48	24°34	6°51	15♂16	T 2
F 3	2 48 19	10°21'43	1♂ 3	3°47	28°40	23°18	21°56	7°10	6°51	22° 1	3° 9	23°37	24°31	6°58	15°13	F 3
S 4	2 52 16	11°21'45	13°27	4°50	29°17	23°57	21°48	7°18	6°53	22° 3	3° 8	23°28	24°28	7° 4	15°10	S 4
S 5	2 56 12	12°21'49	26° 1	5°49	29°55	24°37	21°40	7°25	6°55	22° 5	3° 7	23°22	24°25	7°11	15° 7	S 5
M 6	3 0 9	13°21'55	8♑47	6°46	0♑34	25°16	21°32	7°32	6°57	22° 7	3° 6	23°19	24°21	7°18	15° 4	M 6
T 7	3 4 5	14°22'02	21°47	7°38	1°14	25°56	21°24	7°39	6°59	22° 9	3° 5	23°D18	24°18	7°24	15° 1	T 7
W 8	3 8 2	15°22'11	5♑ 3	8°27	1°56	26°35	21°16	7°46	7° 1	22°12	3° 4	23°18	24°15	7°31	14°58	W 8
T 9	3 11 59	16°22'22	18°38	9°11	2°38	27°15	21° 8	7°54	7° 3	22°14	3° 3	23°R18	24°12	7°38	14°55	T 9
F 10	3 15 55	17°22'34	2♑34	9°51	3°22	27°54	21° 0	8° 1	7° 5	22°16	3° 2	23°17	24° 9	7°45	14°52	F 10
S 11	3 19 52	18°22'47	16°52	10°24	4° 7	28°34	20°51	8° 8	7° 6	22°18	3° 1	23°14	24° 5	7°51	14°49	S 11
S 12	3 23 48	19°23'01	1♑28	10°52	4°52	29°14	20°43	8°15	7° 8	22°21	3° 0	23° 9	24° 2	7°58	14°46	S 12
M13	3 27 45	20°23'18	16°20	11°13	5°39	29°53	20°35	8°22	7°10	22°23	2°59	23° 1	23°59	8° 5	14°43	M13
T 14	3 31 41	21°23'35	1♑20	11°26	6°27	0♑33	20°27	8°29	7°12	22°25	2°58	22°52	23°56	8°12	14°40	T 14
W15	3 35 38	22°23'55	16°17	11°R31	7°15	1°12	20°19	8°37	7°13	22°27	2°57	22°42	23°53	8°18	14°37	W15
T 16	3 39 34	23°24'16	1♑ 4	11°26	8° 5	1°52	20°11	8°44	7°15	22°30	2°55	22°33	23°50	8°25	14°34	T 16
F 17	3 43 31	24°24'39	15°32	11°13	8°55	2°32	20° 3	8°51	7°16	22°32	2°54	22°26	23°46	8°32	14°31	F 17
S 18	3 47 27	25°25'03	29°35	10°49	9°46	3°12	19°54	8°58	7°18	22°34	2°53	22°21	23°43	8°38	14°28	S 18
S 19	3 51 24	26°25'30	13♑10	10°15	10°38	3°51	19°46	9° 5	7°19	22°36	2°52	22°19	23°40	8°45	14°25	S 19
M20	3 55 21	27°25'58	26°18	9°30	11°30	4°31	19°38	9°12	7°20	22°39	2°51	22°D18	23°37	8°52	14°22	M20
T 21	3 59 17	28°26'28	9♑ 2	8°36	12°23	5°11	19°30	9°19	7°21	22°41	2°50	22°19	23°34	8°59	14°19	T 21
W22	4 3 14	29°26'59	21°25	7°33	13°17	5°51	19°22	9°26	7°23	22°43	2°49	22°20	23°31	9° 5	14°16	W22
T 23	4 7 10	0♑27'33	3♑32	6°21	14°12	6°31	19°14	9°33	7°24	22°45	2°48	22°R21	23°27	9°12	14°13	T 23
F 24	4 11 7	1°28'08	15°29	5° 4	15° 7	7°11	19° 7	9°40	7°25	22°48	2°46	22°19	23°24	9°19	14°10	F 24
S 25	4 15 3	2°28'45	27°21	3°43	16° 3	7°51	18°59	9°47	7°26	22°50	2°45	22°16	23°21	9°25	14° 8	S 25
S 26	4 19 0	3°29'23	9♑12	2°22	17° 0	8°31	18°51	9°53	7°27	22°52	2°44	22°10	23°18	9°32	14° 5	S 26
M27	4 22 56	4°30'03	21° 6	1° 1	17°57	9°11	18°44	10° 0	7°28	22°54	2°43	22° 3	23°15	9°39	14° 2	M27
T 28	4 26 53	5°30'45	3♑ 6	29♑46	18°54	9°51	18°36	10° 7	7°29	22°56	2°42	21°54	23°11	9°46	13°59	T 28
W29	4 30 50	6°31'28	15°16	28°37	19°52	10°31	18°29	10°14	7°30	22°59	2°41	21°45	23° 8	9°52	13°56	W29
T 30	4 34 46	7♑32'13	27♑35	27♑36	20♑51	11♑11	18♂21	10♑21	7♑30	23♑ 1	2♑40	21♑36	23♑ 5	9♑59	13♂54	T 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	14s17	9s 6	4n53	23s 8	2s43	0s27	1s34	7s53	0n44	17n 4	1s16	11s44	2n12	9n42	0n45	16s37	1n41	7n36	13s25	21n17	21n11	1n50	14n40	1s50			
T 2	14 36	13 1	4 33	23 24	2 46	0 31	1 23	8 8	0 44	17 2	1 16	11 46	2 12	9 42	0 45	16 37	1 41	7 35	13 25	21 20	21 12	1 47	14 39	1 50			
F 3	14 55	16 27	3 59	23 38	2 48	0 35	1 13	8 23	0 43	17 0	1 16	11 49	2 12	9 41	0 45	16 38	1 41	7 35	13 25	21 22	21 12	1 45	14 38	1 50			
S 4	15 14	19 11	3 14	23 52	2 50	0 41	1 3	8 37	0 43	16 58	1 16	11 51	2 12	9 40	0 45	16 38	1 41	7 35	13 25	21 23	21 13	1 42	14 37	1 50			
S 5	15 32	21 2	2 19	24 3	2 51	0 47	0 53	8 52	0 42	16 56	1 16	11 53	2 12	9 39	0 45	16 39	1 41	7 35	13 25	21 24	21 13	1 40	14 36	1 50			
M 6	15 50	21 52	1 16	24 14	2 51	0 54	0 44	9 7	0 42	16 54	1 16	11 56	2 12	9 39	0 45	16 40	1 41	7 34	13 25	21 25	21 14	1 38	14 35	1 50			
T 7	16 8	21 32	0 8	24 22	2 50	1 1	0 35	9 22	0 42	16 52	1 16	11 58	2 12	9 38	0 45	16 40	1 41	7 34	13 25	21 25	21 14	1 35	14 34	1 50			
W 8	16 26	20 0	1s 2	24 29	2 49	1 10	0 26	9 36	0 41	16 50	1 16	12 0	2 12	9 37	0 45	16 41	1 41	7 34	13 26	21 25	21 15	1 33	14 33	1 50			
T 9	16 43	17 18	2 10	24 34	2 47	1 19	0 17	9 51	0 41	16 48	1 16	12 3	2 12	9 37	0 45	16 41	1 41	7 34	13 26	21 25	21 15	1 30	14 32	1 50			
F 10	17 0	13 33	3 13	24 37	2 44	1 28	0 9	10 6	0 40	16 46	1 16	12 5	2 12	9 36	0 45	16 42	1 41	7 33	13 26	21 25	21 16	1 28	14 31	1 50			
S 11	17 17	8 57	4 5	24 38	2 40	1 38	0 0	10 20	0 40	16 44	1 16	12 7	2 12	9 35	0 45	16 42	1 41	7 33	13 26	21 25	21 17	1 26	14 30	1 50			
S 12	17 34	3 44	4 42	24 37	2 35	1 49	0n 8	10 35	0 39	16 42	1 16	12 9	2 12	9 35	0 45	16 43	1 41	7 33	13 26	21 26	21 17	1 23	14 30	1 51			
M13	17 50	1n47	5 1	24 34	2 29	2 0	0 16	10 49	0 39	16 40	1 16	12 12	2 12	9 34	0 45	16 44	1 41	7 33	13 26	21 28	21 18	1 21	14 29	1 51			
T 14	18 6	7 14	5 0	24 28	2 22	2 12	0 23	11 3	0 39	16 38	1 16	12 14	2 13	9 34	0 45	16 44	1 41	7 32	13 26	21 29	21 18	1 18	14 28	1 51			
W15	18 21	12 15	4 39	24 20	2 13	2 25	0 31	11 17	0 38	16 36	1 16	12 16	2 13	9 33	0 45	16 45	1 41	7 32	13 26	21 31	21 19	1 16	14 27	1 51			
T 16	18 37	16 28	3 58	24 9	2 2	2 37	0 38	11 31	0 38	16 34	1 15	12 18	2 13	9 33	0 45	16 45	1 41	7 32	13 26	21 32	21 19	1 14	14 26	1 51			
F 17	18 52	19 36	3 3	23 56	1 50	2 51	0 45	11 46	0 37	16 32	1 15	12 20	2 13	9 32	0 45	16 46	1 41	7 32	13 26	21 33	21 20	1 11	14 25	1 51			
S 18	19 6	21 27	1 59	23 39	1 37	3 5	0 51	11 59	0 37	16 30	1 15	12 23	2 13	9 32	0 45	16 46	1 41	7 32	13 26	21 34	21 20	1 9	14 24	1 51			
S 19	19 20	21 58	0 49	23 19	1 22	3 19	0 58	12 13	0 36	16 28	1 15	12 25	2 13	9 31	0 45	16 47	1 41	7 31	13 26	21 35	21 21	1 6	14 23	1 51			
M20	19 34	21 14	0n21	22 56	1 5	3 34	1 4	12 27	0 36	16 26	1 15	12 27	2 13	9 31	0 45	16 48	1 41	7 31	13 26	21 35	21 22	1 4	14 22	1 51			
T 21	19 48	19 25	1 29	22 30	0 47	3 49	1 10	12 41	0 35	16 24	1 15	12 29	2 13	9 30	0 45	16 48	1 41	7 31	13 26	21 34	21 22	1 1	14 21	1 51			
W22	20 1	16 43	2 30	22 1	0 28	4 5	1 16	12 55	0 35	16 22	1 15	12 31	2 13	9 30	0 45	16 49	1 41	7 31	13 26	21 34	21 23	0 59	14 20	1 51			
T 23	20 14	13 21	3 23	21 29	0 8	4 20	1 22	13 8	0 35	16 20	1 14	12 33	2 13	9 29	0 45	16 49	1 41	7 31	13 26	21 34	21 23	0 57	14 19	1 51			
F 24	20 26	9 30	4 6	20 55	0n13	4 37	1 27	13 22	0 34	16 18	1 14	12 36	2 13	9 29	0 46	16 50	1 41	7 30	13 26	21 34	21 24	0 54	14 18	1 51			
S 25	20 38	5 19	4 39	20 20	0 33	4 53	1 32	13 35	0 34	16 16	1 14	12 38	2 13	9 29	0 46	16 50	1 41	7 30	13 26	21 35	21 24	0 52	14 18	1 51			
S 26	20 50	0 57	4 59	19 45	0 53	5 10	1 37	13 48	0 33	16 14	1 14	12 40	2 13	9 28	0 46	16 51	1 41	7 30	13 26	21 36	21 25	0 49	14 17	1 51			
M27	21 1	3s29	5 7	19 10	1 12	5 28	1 42	14 2	0 33	16 12	1 14	12 42	2 13	9 28	0 46	16 51	1 41	7 30	13 26	21 37	21 25	0 47	14 16	1 51			
T 28	21 12	7 49	5 1	18 37	1 30	5 45	1 47	14 15	0 32	16 10	1 14	12 44	2 13	9 28	0 46	16 52	1 41	7 30	13 26	21 38	21 26	0 44	14 15	1 52			
W29	21 23	11 54	4 42	18 7	1 46	6 3	1 51	14 28	0 32	16 8	1 13	12 46	2 13	9 28	0 46	16 53	1 41	7 30	13 26	21 40	21 26	0 42	14 14	1 52			
T 30	21s33	15s33	4n 9	17s40	2n 0	6s21	1n55	14s41	0n31	16n 6	1s13	12s48	2n13	9n27	0n46	16s53	1n41	7n30	13s26	21n41	21n27	0n40	14n13	1s52			

ASTRODIENST EPHEMERIS for the year 2130
geocentric

DECEMBER 2130

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	4 38 43	8°32'59	10♊ 6	26°R46	21♌50	11♍51	18°R14	10♎27	7♏31	23♐ 3	2°R39	21°R29	23♑ 2	10♒ 6	13°R51	F 1
S 2	4 42 39	9°33'46	22°48	26♌ 7	22°50	12°31	18♎ 7	10°34	7°32	23° 5	2♑37	21♒24	22°59	10°12	13♒48	S 2
S 3	4 46 36	10°34'35	5♋42	25°40	23°50	13°11	18° 0	10°41	7°32	23° 7	2°36	21°20	22°56	10°19	13°46	S 3
M 4	4 50 32	11°35'25	18°47	25°24	24°50	13°51	17°53	10°47	7°33	23°10	2°35	21°D19	22°52	10°26	13°43	M 4
T 5	4 54 29	12°36'15	2♈ 3	25°D19	25°51	14°32	17°46	10°54	7°33	23°12	2°34	21°19	22°49	10°33	13°41	T 5
W 6	4 58 26	13°37'07	15°32	25°25	26°53	15°12	17°40	11° 0	7°34	23°14	2°33	21°21	22°46	10°39	13°38	W 6
T 7	5 2 22	14°37'59	29°14	25°41	27°54	15°52	17°33	11° 7	7°34	23°16	2°32	21°22	22°43	10°46	13°36	T 7
F 8	5 6 19	15°38'52	13♋ 8	26° 5	28°56	16°32	17°27	11°13	7°35	23°18	2°31	21°R23	22°40	10°53	13°33	F 8
S 9	5 10 15	16°39'46	27°15	26°38	29°59	17°13	17°21	11°19	7°35	23°20	2°30	21°23	22°37	11° 0	13°31	S 9
S 10	5 14 12	17°40'40	11♌34	27°18	1♎ 2	17°53	17°15	11°26	7°35	23°22	2°29	21°21	22°33	11° 6	13°28	S 10
M 11	5 18 8	18°41'36	26° 1	28° 4	2° 5	18°33	17° 9	11°32	7°35	23°24	2°27	21°17	22°30	11°13	13°26	M 11
T 12	5 22 5	19°42'31	10♎32	28°56	3° 9	19°14	17° 3	11°38	7°35	23°27	2°26	21°13	22°27	11°20	13°24	T 12
W 13	5 26 1	20°43'28	25° 2	29°53	4°12	19°54	16°58	11°44	7°R35	23°29	2°25	21° 8	22°24	11°26	13°21	W 13
T 14	5 29 58	21°44'25	9♑25	0♊54	5°17	20°35	16°52	11°51	7°35	23°31	2°24	21° 3	22°21	11°33	13°19	T 14
F 15	5 33 55	22°45'24	23°34	1°59	6°21	21°15	16°47	11°57	7°35	23°33	2°23	21° 0	22°17	11°40	13°17	F 15
S 16	5 37 51	23°46'23	7♒24	3° 8	7°26	21°55	16°42	12° 3	7°35	23°35	2°22	20°58	22°14	11°47	13°15	S 16
S 17	5 41 48	24°47'23	20°54	4°19	8°31	22°36	16°37	12° 9	7°35	23°37	2°21	20°D57	22°11	11°53	13°13	S 17
M 18	5 45 44	25°48'23	4♒ 1	5°33	9°36	23°17	16°32	12°15	7°35	23°39	2°20	20°58	22° 8	12° 0	13°11	M 18
T 19	5 49 41	26°49'25	16°47	6°49	10°42	23°57	16°28	12°20	7°34	23°41	2°19	20°59	22° 5	12° 7	13° 9	T 19
W 20	5 53 37	27°50'27	29°13	8° 6	11°48	24°38	16°23	12°26	7°34	23°43	2°18	21° 1	22° 2	12°13	13° 7	W 20
T 21	5 57 34	28°51'31	11♑24	9°26	12°54	25°18	16°19	12°32	7°34	23°45	2°17	21° 2	21°58	12°20	13° 5	T 21
F 22	6 1 30	29°52'35	23°24	10°47	14° 1	25°59	16°15	12°38	7°33	23°46	2°16	21° 3	21°55	12°27	13° 3	F 22
S 23	6 5 27	0♓53'40	5♌18	12° 9	15° 7	26°40	16°11	12°43	7°33	23°48	2°15	21°R 3	21°52	12°34	13° 1	S 23
S 24	6 9 24	1°54'46	17°10	13°33	16°14	27°20	16° 8	12°49	7°32	23°50	2°14	21° 3	21°49	12°40	13° 0	S 24
M 25	6 13 20	2°55'52	29° 5	14°57	17°21	28° 1	16° 4	12°54	7°31	23°52	2°13	21° 1	21°46	12°47	12°58	M 25
T 26	6 17 17	3°56'59	11♌ 8	16°22	18°29	28°42	16° 1	13° 0	7°31	23°54	2°12	20°58	21°43	12°54	12°56	T 26
W 27	6 21 13	4°58'07	23°22	17°48	19°36	29°23	15°58	13° 5	7°30	23°56	2°11	20°56	21°39	13° 1	12°55	W 27
T 28	6 25 10	5°59'16	5♊49	19°15	20°44	0♊ 3	15°55	13°10	7°29	23°58	2°10	20°53	21°36	13° 7	12°53	T 28
F 29	6 29 6	7° 0'25	18°33	20°42	21°52	0°44	15°53	13°16	7°28	23°59	2° 9	20°51	21°33	13°14	12°52	F 29
S 30	6 33 3	8° 1'34	1♓32	22°10	23° 0	1°25	15°50	13°21	7°28	24° 1	2° 9	20°50	21°30	13°21	12°50	S 30
S 31	6 36 59	9♓ 2'44	14♓48	23♊39	24♌ 9	2♊ 6	15♎48	13♎26	7♏27	24♌ 3	2♑ 8	20°D49	21♒27	13♒27	12♒49	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	lat	lat
F 1	21s43	18s35	3n24	17s17	2n12	6s39	1n59	14s53	0n31	16n 5	1 s13	12s50	2n14	9n27	0n46	16s54	1n41	7n29	13s25	21n42	21n27	0n37	14n12	1 s52
S 2	21 52	20 45	2 28	16 59	2 21	6 58	2 3	15 6	0 30	16 3	1 13	12 52	2 14	9 27	0 46	16 54	1 41	7 29	13 25	21 43	21 28	0 35	14 12	1 52
S 3	22 1	21 54	1 24	16 45	2 29	7 16	2 7	15 19	0 30	16 1	1 13	12 54	2 14	9 27	0 46	16 55	1 41	7 29	13 25	21 44	21 28	0 32	14 11	1 52
M 4	22 9	21 53	0 14	16 36	2 34	7 35	2 11	15 31	0 29	15 59	1 12	12 56	2 14	9 27	0 46	16 55	1 41	7 29	13 25	21 44	21 29	0 30	14 10	1 52
T 5	22 17	20 38	0s58	16 32	2 38	7 54	2 14	15 44	0 29	15 58	1 12	12 58	2 14	9 26	0 46	16 56	1 41	7 29	13 25	21 44	21 30	0 27	14 9	1 52
W 6	22 25	18 12	2 8	16 31	2 40	8 13	2 17	15 56	0 28	15 56	1 12	13 0	2 14	9 26	0 46	16 56	1 41	7 29	13 25	21 44	21 30	0 25	14 8	1 52
T 7	22 32	14 44	3 12	16 35	2 40	8 32	2 20	16 8	0 28	15 55	1 12	13 1	2 14	9 26	0 46	16 57	1 41	7 29	13 25	21 44	21 31	0 23	14 8	1 52
F 8	22 39	10 24	4 5	16 41	2 39	8 52	2 23	16 20	0 27	15 53	1 11	13 3	2 14	9 26	0 46	16 57	1 41	7 29	13 25	21 43	21 31	0 20	14 7	1 52
S 9	22 45	5 27	4 45	16 51	2 37	9 11	2 25	16 32	0 27	15 52	1 11	13 5	2 14	9 26	0 46	16 58	1 41	7 28	13 25	21 43	21 32	0 18	14 6	1 52
S 10	22 51	0 9	5 7	17 3	2 33	9 31	2 28	16 44	0 26	15 50	1 11	13 7	2 14	9 26	0 46	16 58	1 41	7 28	13 25	21 44	21 32	0 15	14 5	1 52
M 11	22 56	5n13	5 11	17 17	2 29	9 50	2 30	16 55	0 26	15 49	1 11	13 9	2 15	9 26	0 46	16 59	1 41	7 28	13 25	21 44	21 33	0 13	14 5	1 52
T 12	23 1	10 18	4 54	17 33	2 24	10 10	2 32	17 7	0 25	15 47	1 11	13 11	2 15	9 26	0 46	16 59	1 41	7 28	13 25	21 45	21 33	0 10	14 4	1 52
W 13	23 6	14 49	4 19	17 51	2 19	10 29	2 34	17 18	0 25	15 46	1 10	13 12	2 15	9 26	0 46	17 0	1 41	7 28	13 24	21 46	21 34	0 8	14 3	1 52
T 14	23 10	18 25	3 28	18 9	2 13	10 49	2 36	17 30	0 24	15 45	1 10	13 14	2 15	9 26	0 46	17 0	1 41	7 28	13 24	21 46	21 34	0 5	14 3	1 52
F 15	23 13	20 52	2 24	18 29	2 6	11 9	2 38	17 41	0 23	15 43	1 10	13 16	2 15	9 26	0 46	17 1	1 41	7 28	13 24	21 47	21 35	0 3	14 2	1 52
S 16	23 16	21 59	1 14	18 49	2 0	11 28	2 39	17 52	0 23	15 42	1 10	13 18	2 15	9 26	0 46	17 1	1 41	7 28	13 24	21 47	21 35	0 0	14 1	1 52
S 17	23 19	21 48	0 0	19 9	1 53	11 48	2 41	18 3	0 22	15 41	1 9	13 19	2 15	9 26	0 47	17 2	1 41	7 28	13 24	21 47	21 36	0s 2	14 1	1 52
M 18	23 21	20 23	1n11	19 29	1 45	12 7	2 42	18 14	0 22	15 40	1 9	13 21	2 15	9 26	0 47	17 2	1 41	7 28	13 24	21 47	21 36	0 4	14 0	1 52
T 19	23 23	17 59	2 17	19 50	1 38	12 27	2 43	18 24	0 21	15 39	1 9	13 23	2 16	9 27	0 47	17 3	1 41	7 28	13 24	21 47	21 37	0 7	14 0	1 52
W 20	23 24	14 47	3 15	20 10	1 30	12 46	2 44	18 35	0 21	15 38	1 8	13 24	2 16	9 27	0 47	17 3	1 41	7 28	13 23	21 47	21 37	0 9	13 59	1 52
T 21	23 25	11 2	4 3	20 30	1 22	13 5	2 44	18 45	0 20	15 37	1 8	13 26	2 16	9 27	0 47	17 3	1 41	7 28	13 23	21 47	21 38	0 12	13 58	1 52
F 22	23 25	6 54	4 39	20 49	1 14	13 24	2 45	18 55	0 19	15 36	1 8	13 27	2 16	9 27	0 47	17 4	1 41	7 28	13 23	21 46	21 38	0 14	13 58	1 52
S 23	23 25	2 32	5 3	21 8	1 6	13 43	2 45	19 5	0 19	15 35	1 8	13 29	2 16	9 27	0 47	17 4	1 41	7 28	13 23	21 46	21 39	0 17	13 57	1 52
S 24	23 24	1s53	5 15	21 26	0 59	14 2	2 46	19 15	0 18	15 35	1 7	13 30	2 16	9 28	0 47	17 5	1 41	7 28	13 23	21 47	21 39	0 19	13 57	1 52
M 25	23 23	6 16	5 12	21 44	0 51	14 21	2 46	19 25	0 18	15 34	1 7	13 32	2 16	9 28	0 47	17 5	1 42	7 28	13 23	21 47	21 40	0 22	13 56	1 52
T 26	23 22	10 28	4 56	22 1	0 43	14 39	2 46	19 35	0 17	15 33	1 7	13 33	2 17	9 28	0 47	17 6	1 42	7 28	13 22	21 47	21 40	0 24	13 56	1 52
W 27	23 20	14 18	4 26	22 17	0 35	14 57	2 46	19 44	0 17	15 33	1 7	13 35	2 17	9 29	0 47	17 6	1 42	7 28	13 22	21 48	21 41	0 27	13 55	1 52
T 28	23 17	17 35	3 44	22 32	0 27	15 15	2 46	19 53	0 16	15 32	1 6	13 36	2 17	9 29	0 47	17 6	1 42	7 28	13 22	21 48	21 41	0 29	13 55	1 52
F 29	23 14	20 7	2 49	22 46	0 19	15 33	2 45	20 2	0 15	15 32	1 6	13 38	2 17	9 29	0 47	17 7	1 42	7 28	13 22	21 48	21 42	0 32	13 54	1 52
S 30	23 11	21 40	1 45	23 0	0 12	15 51	2 45	20 11	0 15	15 31	1 6	13 39	2 17	9 30	0 47	17 7	1 42	7 28	13 22	21 48	21 42	0 34	13 54	1 52
S 31	23s 7	22s 3	0n33	23s12	0n 4	16s 8	2n44	20s20	0n14	15n31	1 s 5	13s40	2n17	9n30	0n47	17s 8	1n42	7n28	13s21	21n49	21n43	0s37	13n54	1 s52